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DESIGN •GEOLOGY

SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS

Farmington Regional Center

About 500 North Lagoon Drive
Farmington, Utah

CMT PROJECT NO. 22203

FOR:
ajc architects
703 East 1700 South
Salt Lake City, Utah 84105

July 3, 2024

July 3, 2024

Ms. Jill Jones
ajc architects
703 East 1700 South
Salt Lake City, Utah 84105

Subject: **Site-Specific Ground Motion Hazard Analysis**
Farmington Regional Center
About 500 North Lagoon Drive
Farmington, Utah
CMT Project Number: 22203

Ms. Jones:

Submitted herewith is the report of our site-specific ground motion hazard analysis for the subject site. The results of our analysis include classification of the site, site-specific seismic values for design, and response spectra for design. This report satisfies the requirements of ASCE 7-16 and IBC 2021 for seismic site-specific ground motion hazard analysis. Detailed discussions of our analysis parameters, values and results are presented in this report.

We appreciate the opportunity to work with you at this stage of the project. CMT offers a full range of Geotechnical Engineering, Geological, Material Testing, Special Inspection services, and Phase I and II Environmental Site Assessments. With offices throughout Utah, Idaho, Texas, Colorado and Arizona, our staff is capable of efficiently serving your project needs. If we can be of further assistance or if you have any questions regarding this project, please do not hesitate to contact us at (801) 590-0394.

Sincerely,

CMT Technical Services

William G. Turner, P.E.
Senior Geotechnical Engineer

Reviewed by:

Andrew M. Harris, P.E.
Geotechnical Division Manager

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APPENDIX A
EZ-FRISK Data/Output (200 Pages)

APPENDIX B
Seismic Velocity Survey Results (7 Pages)
Ground Motion Hazard Analysis Summary (16 pages)
OSHPD Report (1 Page)

1.0 INTRODUCTION

1.1 General

CMT Technical Services (CMT) was retained to conduct a site-specific ground motion hazard analysis for the proposed Farmington Regional Center office building. The site is situated on the north side of Lagoon Drive at about 500 North in Farmington, Utah, as shown in **Exhibit 1 - Vicinity Map** below.

EXHIBIT 1 - VICINITY MAP

1.2 Objectives, Scope and Authorization

The objectives and scope of our study were planned in discussions between Ms. Jill Jones with ajc architects, and Mr. Andrew Harris of CMT. In general, the objectives of this study were to obtain a shear wave velocity profile of at least the upper 100 feet from the existing ground surface, and provide a site-specific ground motion hazard analysis to be utilized in the design of proposed buildings.

In accomplishing these objectives, our scope of work has included performing in-situ shear wave velocity testing, performing a site-specific ground motion hazard analyses for the site, and preparing this summary report. This scope of work was authorized via our master consultant agreement in relation to our proposal dated May 12, 2024.

1.3 Description of Proposed Construction

We understand that the proposed construction consists of an office building with a plan area of approximately 35,000 square which will be 1 to 2 levels above grade with surface parking. We project that wall loads will not exceed 6,000 pounds per linear foot and column loads will not exceed 100,000 pounds. Floor slab loads are anticipated to be relatively light, with an average uniform loading not exceeding 150 pounds per square foot.

1.4 Executive Summary

Based on the results of the seismic velocity testing at the site, an average shear wave velocity in the upper 100 feet (30 meters, or $V_{s,30}$) of 777 feet per second (237 meters per second) was obtained. Given these shear-wave velocity results, we recommend the project site be classified as Site Class D – Stiff Soil profile (with data) for seismic design.

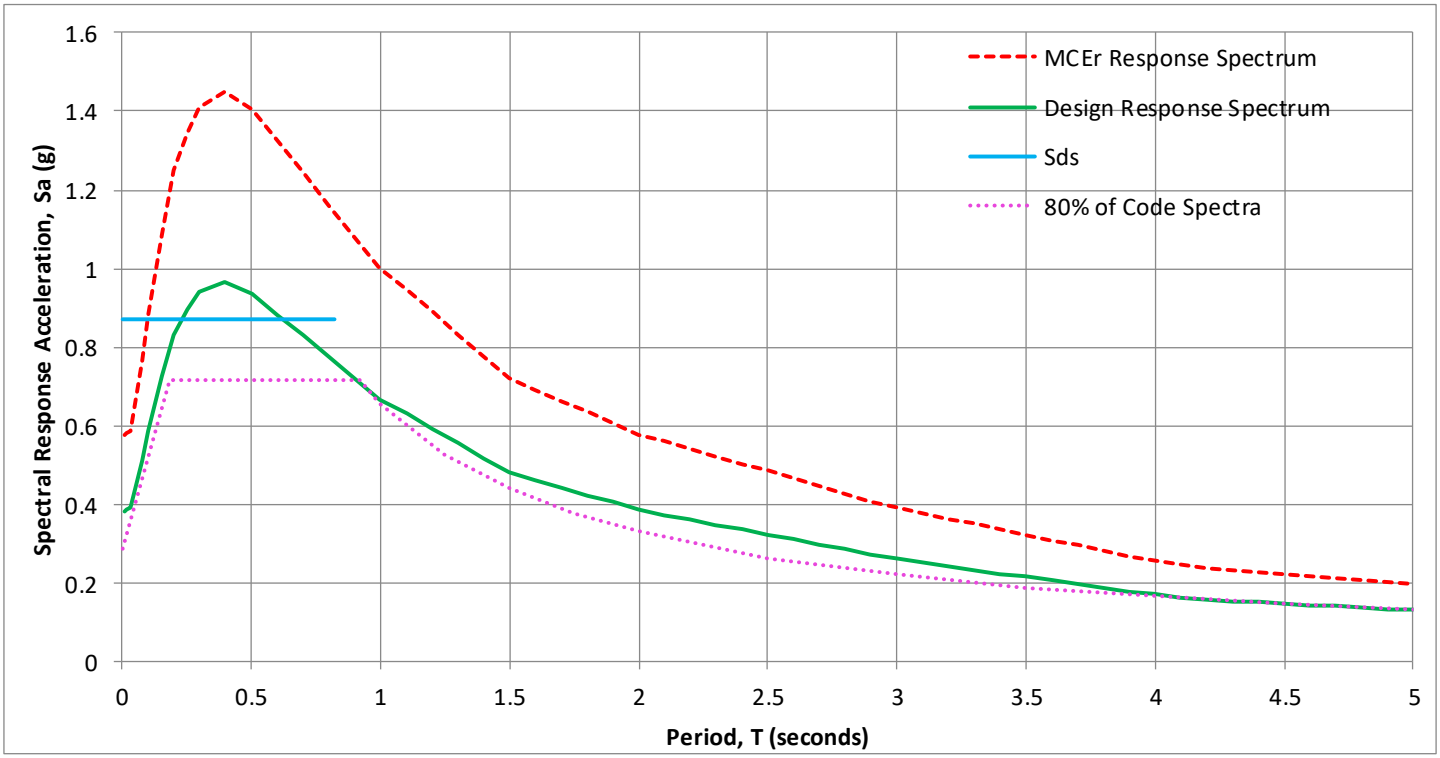
The results of the site-specific ground motion hazard analyses, performed in accordance with ASCE[1] 7-16 Chapter 21, are presented herein, including the risk-targeted uniform hazard MCE_R and design response spectra. The site-specific design and MCE_R spectral response acceleration parameters are shown in the table below. The final site-specific MCE_R and design response spectra are also shown below.

[1]American Society of Civil Engineers

SPECTRAL ACCELERATION VALUE, T	SITE CLASS B/C BOUNDARY [mapped values] (g)	SITE CLASS D [GMHA Results] (g)	MULTIPLIER	DESIGN VALUES (g)
Peak Ground Acceleration	PGA_M = **0.735**	PGA_M = 0.575	1.000	PGA_M = 0.575
0.2 Seconds (Long Period Acceleration)	S_S = **1.338**	S_{MS} = 1.303	0.667	S_{DS} = 0.869
1.0 Second (Long Period Acceleration)	S_1 = **0.494**	S_{M1} = 1.210	0.667	S_{D1} = 0.807

NOTES: *** Site Class D With Data**

1. T_L (seconds): **8**
2. Site Class: **D**
3. Have data to verify? **Yes**



2.0 GEOLOGIC & SITE CONDITIONS

2.1 Geologic Setting

The subject site is in the east-central portion of Davis County in north-central Utah and sits at an elevation of approximately 4,272 feet above sea level in a valley bounded by the Wasatch Mountains on the east and Antelope Island (Great Salt Lake) and the Promontory Mountains on the west. The valley is a deep, sediment-filled basin that is part of the Basin and Range Physiographic Province, formed by extensional tectonic processes during the Tertiary and Quaternary geologic time periods. The valley is located within the Intermountain Seismic Belt, a zone of ongoing tectonism and seismic activity extending from southwestern Montana to southwestern Utah. The active (evidence of movement in the last 10,000 years) Wasatch Fault Zone is part of the

Intermountain Seismic Belt and extends from southeastern Idaho to central Utah along the western base of the Wasatch Mountain Range.

Much of northwestern Utah, including the valley in which the subject site is located, was also previously covered by the Pleistocene age Lake Bonneville. The Great Salt Lake, located along the western margin of the valley and beyond, is a remnant of this ancient freshwater lake. Lake Bonneville reached a high-stand elevation of between approximately 5,160 and 5,200 feet above sea level at between 18,500 and 17,400 years ago. Approximately 17,400 years ago, the lake breached its basin in southeastern Idaho and dropped by almost 300 feet relatively fast as water drained into the Snake River. Following this catastrophic release, the lake level continued to drop slowly over time, primarily driven by drier climatic conditions, until reaching the current level of the Great Salt Lake. Shoreline terraces formed at the high-stand elevation of the lake and several subsequent lower lake levels are visible in places on the mountain slopes surrounding the valley. Much of the sediment within the valley was deposited as lacustrine sediments during both the transgressive (rise) and regressive (fall) phases of Lake Bonneville and in older, pre-Bonneville lakes that previously occupied the basin.

The geology of the USGS Farmington, Utah 7.5 Minute Quadrangle, that includes the location of the subject site, has been mapped by Lowe and others[2]. The surficial geology of the southeastern portion of the site is mapped as "Younger alluvial-fan deposits" (Map Unit Qaf_1) dated to be upper Holocene. Unit Qaf_1 is described in the referenced map as "Mixture of gravel and sand deposited by streams, and diamicton deposited by debris flows; forms fans, locally with distinct levees and channels, at mouths of mountain-front canyons; exposed thickness less than 6 meters (20 ft)." The northwestern portion of the site is mapped as "Fill and disturbed land (historical)" (Map Unit Qfd). Unit Qfd is described as "Land disturbed and excavated through aggregate (sand and gravel) operations and construction of Interstate highways, highway interchanges, and Farmington Bay dikes." Refer to **Exhibit 2 - Geologic Map**, shown below:

[2]Lowe, M., Kirby, S.M., and Harty, K.M., 2018, Geologic Map of the Farmington Quadrangle, Salt Lake and Davis Counties, Utah; Utah Geological Survey Map 279 DM, Scale 1:24,000.

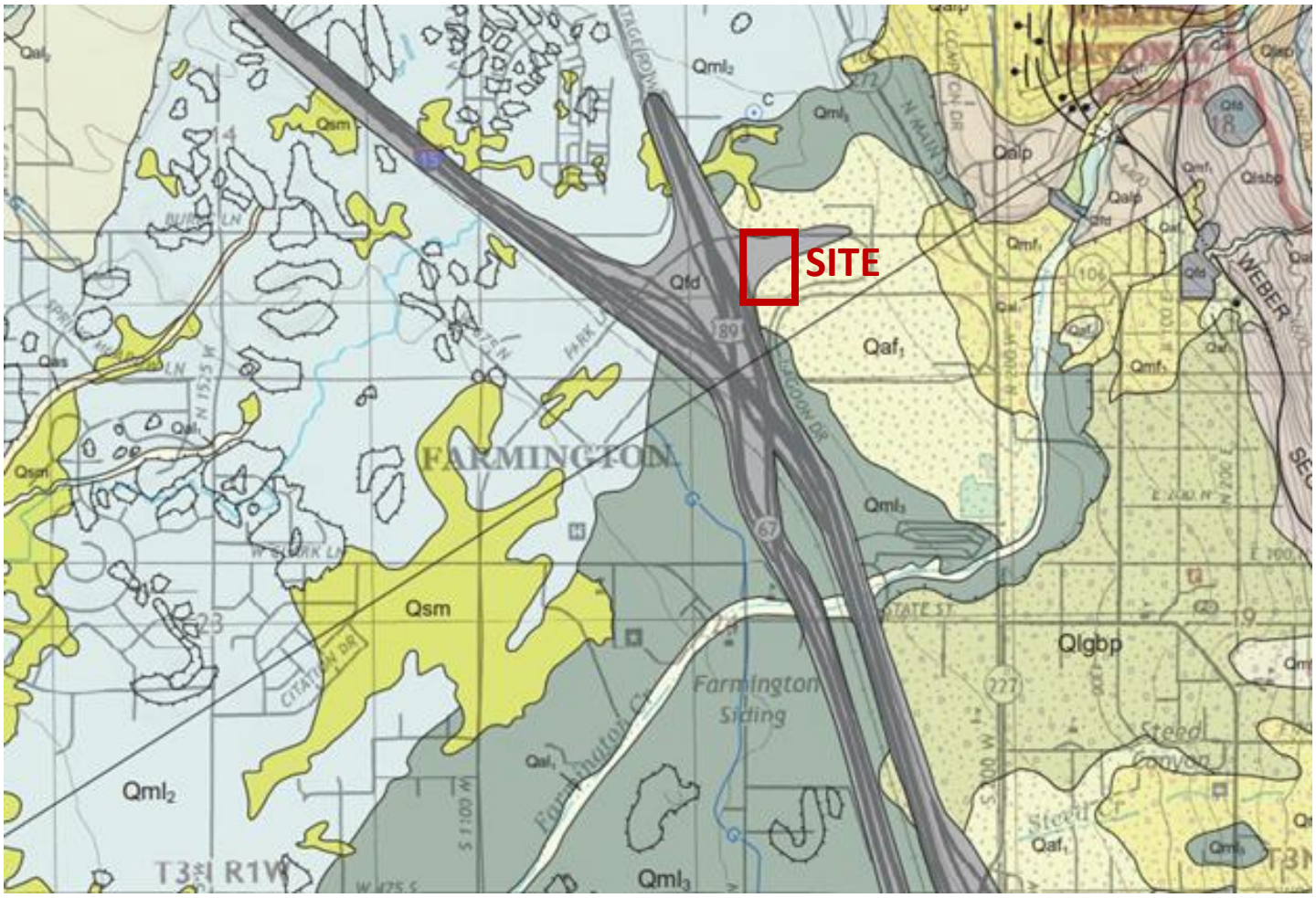


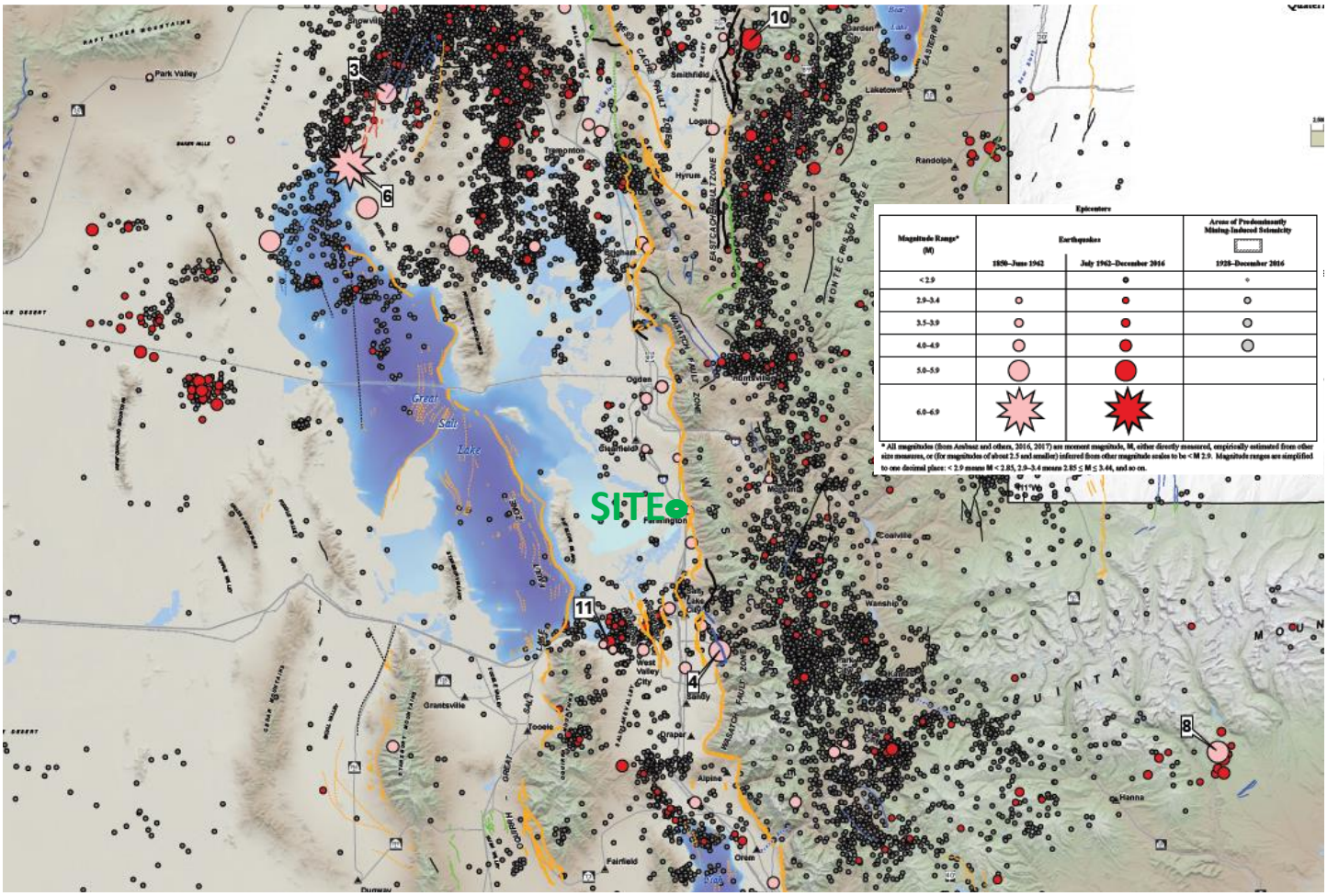
EXHIBIT 2 - GEOLOGIC MAP

2.2 Faulting

The referenced geologic map does not show any faults crossing, adjacent to, or projecting toward the subject site. The nearest mapped active (Holocene-age) fault is the Weber Segment of the Wasatch Fault Zone approximately 0.6 miles to the northeast.

Fault sources included in this study are listed in the analysis results included in **Appendix A** and included faults within 200 kilometers (124 miles) of the site within Utah, southern Idaho, western Wyoming and eastern Nevada. Gridded sources have been included for background seismicity. Historical seismicity within approximately 60 miles of the site is shown in the **Historical Earthquakes and Regional Fault Map**[3], shown below.

[3]Bowman, S.D. and Arabasz, W.J., 2017, Utah Earthquakes (1850-2016) and Quaternary Faults; Utah Geological Survey Map 277, Scale 1:500,000.


SITE
Epicenters
Magnitude Range* (M)
Earthquakes
1850–June 1962
July 1962–December 2016
Areas of Predominantly Mining-Induced Seismicity
1928–December 2016
<2.9
2.9–3.4
3.5–3.9
4.0–4.9
5.0–5.9
6.0–6.9
Great Salt Lake
Park Valley
Tremonton
Logan
Smithfield
Hyrum
Randolph
Lakeside
Brigham
Ogden
Huntsville
Eden
Eden
Eden

State Liquor Store, and on the west by the Highway 89 northbound off-ramp (see **Vicinity Map** in **Section 1.1** above).

2.5 Subsurface Conditions

Our referenced geotechnical report for this site indicates the subsurface soils at this site consist of topsoil at the surface underlain by natural layers of clay and silt grading with layers of sand and an occasional layer of gravel, extending to the maximum depth penetrated, 51.5 feet below the existing ground surface. Groundwater was encountered and/or measured at depths of about 5.6 to 24 feet.

2.6 Seismic Site Class

Utah has adopted the International Building Code (IBC) 2021, which determines the seismic hazard for a site based upon 2014 mapping of bedrock accelerations prepared by the United States Geologic Survey (USGS) and the soil site class. The USGS values are presented on maps incorporated into the IBC code and are also available based on latitude and longitude coordinates (grid points). For site class definitions, IBC 2021 Section 1613.2.2 refers to Chapter 20, Site Classification Procedure for Seismic Design, of ASCE 7-16. The site classification procedure is based on shear wave velocity, blow counts during drilling, and/or shear strength of cohesive soils within the upper 100 feet (30 meters) of the soil profile.

The site is located at approximately latitude 40.9904 degrees (north) and longitude -111.9005 degrees (west). Site characterization was performed using seismic surface waves methods performed by IGES (results are presented in ***Appendix B***). The results of these analyses indicate that the average shear wave velocity of the upper 100 feet (30 meters) below the ground surface (i.e., $V_{S,30}$) at the site is approximately 777 feet per second (237 meters per second). Given these results, we recommend the project site be classified as Site Class D – Stiff Soil Profile (with data) for seismic design.

3.0 SEISMIC HAZARD ANALYSIS

3.1 General

ASCE 7-16 requires performing both probabilistic and deterministic seismic hazard analyses (PSHA and DSHA) in order to develop the site-specific MCE_R and design response spectra. These analyses involve the selection of appropriate predictive relationships to estimate the ground motion parameters, and through probabilistic and deterministic methods, determination of peak and spectral accelerations. Our analyses, which are detailed in ***Appendix A*** and summarized in ***Appendix B***, were primarily performed using the *EZ-FRISK (Version 8.07)* software with the following input items:

- Our seismic source model was based on the USGS 2014 National Seismic Hazard Maps[4], including the locations of the sources and associated parameters used in our analyses.

[4] Petersen, M.D., Moschetti, M.P., Powers, P.M., Mueller, C.S., Haller, K.M., Frankel, A.D., Zeng, Yuehua, Rezaeian, Sanaz, Harmsen, S.C., Boyd, O.S., Field, Ned, Chen, Rui, Rukstales, K.S., Luco, Nico, Wheeler, R.L., Williams, R.A., and Olsen, A.H. (2014). "Documentation

- In addition to the individual seismic sources, we also allowed for background (i.e., gridded) seismicity that accounted for random earthquakes between Magnitudes 5.0 and 7.0 based on the methodology described by Petersen et al.[4,5] and Frankel et al.[6]. The seismic source model developed by USGS does not include all of the local Quaternary faults in the seismic hazard analyses as independent seismic sources, but their seismicity has been included within the background seismicity in our model.

- The Wasatch Front area began to be settled around 1847. Since that time, several moderate intensity and many low intensity earthquakes have occurred in the general vicinity of the site, including the most recent Magnitude 5.7 earthquake in March 2020, where the epicenter was a few miles west of Salt Lake City and about 20 miles southwest of the project site. The **Historical Earthquakes and Regional Fault Map** presented above in **Section 2.2** shows the locations and relative magnitudes of historical earthquake ground shaking within about 60 miles (97 km) of the site. Historical seismicity in the site vicinity is useful to confirm the frequency of seismic events on faults used in seismic hazards analysis.

For the CEUS gridded sources, we used the ground motion prediction equations (GMPE's) listed below along with the weighting presented in the documentation for the 2014 Update of the United States National Seismic Hazard Maps[5]:

- Frankel (1996, Truncated Mw)
- Toto (1999, Midcontinent)
- Silva et al. (2002)
- Campbell (2003)
- Tavakoli-Pezeschk (2005)
- Atkinson-Boore (2006)
- Pezeshk et al. (2011)
- Atkinson (2008)

For all other sources, we selected the most recent NGA-West2 (Next Generation of Ground-Motion Attenuation Models for the Western United States) GMPE's listed below with equal weighting of 0.25 each (Idriss, 2014, was not included since the shear wave velocity is less than 450 meters per second).

- Abrahamson et al. (2014)
- Boore et al. (2014)
- Campbell and Bozorgnia (2014)
- Chiou and Youngs (2014)

for the 2014 update of the United States national seismic hazard maps." U.S. Geological Survey Open-File Report 2014–1091, 243 p., http://dx.doi.org/10.3133/ofr20141091.

[5] Petersen, M.D., Frankel, A.D., Harmsen, S.C., Mueller, S.C., Haller, K.M., Wheeler, R.L., Wesson, R.L., Zeng, Y., Boyd, O.S., Perkins, D.M., Luco, N., Field, E.H., Wills, C.J., and Rukstales, K.S. (2008). "Documentation for the 2008 Update of the United States National Seismic Hazard Maps", USGS Open-File Report 2008-1128, 128p.

[6] Frankel, A.D., Petersen, M.D., Mueller, C.S., Haller, K.M., Wheeler, R.L., Leyendecker, E.V., Wesson, R.L., Harmsen, S.C., Cramer, C.H., Perkins, D.M., and Rukstales, K.S. (2002). "Documentation for the 2002 Update of the National Seismic Hazard Maps", United States Geological Survey, Open-File Report 02-420, 33 pp., URL http://geohazards.cr.usgs.gov/eq/of02-420/OFR02-420.pdf.

Site-specific parameters for the selected GMPE's include $V_{s,30}$ (measured as 237 meters per second), depth to a shear wave velocity of 1.0 kilometers per second ($Z_{1.0}$), and depth to a shear wave velocity of 2.5 kilometers per second ($Z_{2.5}$). To obtain both these values, we used extrapolation from the shear-wave velocity measurements, the method of Moschetti et al[7], and the closest geologic cross-section to the site as provided on the geologic map prepared by Bryant[8]. To obtain a depth where the shear wave velocity would be approximately 1,000 meters per second, we obtained the following values:

- Utilizing the Moschetti et al[7] method indicated a depth of roughly 400 meters.
- Extrapolation of the shear wave velocity data from the site characterization resulted in a depth of about 400 meters.

Using an average of these methods resulted in an average of 400 meters for the $Z_{1.0}$ value. To obtain a depth where the shear wave velocity would be approximately 2,500 meters per second, we obtained the following values:

- Utilizing the Moschetti et al[8] method indicated a depth of roughly 2,700 meters.
- Extrapolation of the shear wave velocity data from the site characterization resulted in a depth of about 1,240 meters (this value was not used because it was not within 20% of the average of the other two values)
- Using cross-section C-C' from the geologic map of Bryant[8] (referenced above) indicated a depth of about 2,600 meters.

Using an average of the first and third methods resulted in 2,650 meters (2.65 kilometers) for the $Z_{2.5}$ value. Details of the methods used and calculations for our analyses, including applicable sections of ASCE 7-16, are presented on the ***GMHA Summary*** provided in ***Appendix B***.

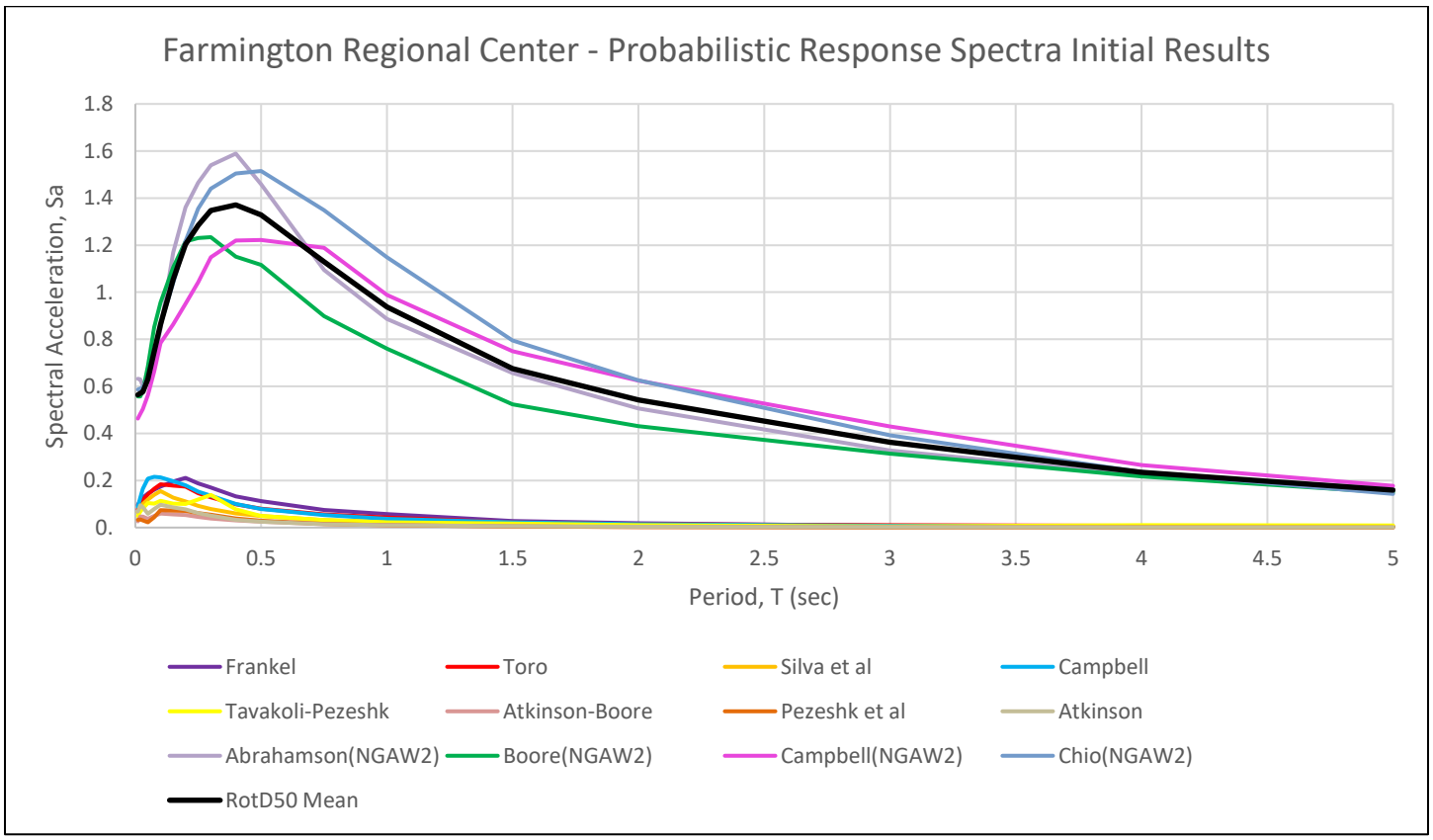
3.2 Probabilistic Seismic Hazard Analysis

ASCE 7-16 §11.4.1 defines near-fault sites as those being within 15 km (9.5 miles) of the surface projection of faults capable of producing larger than Mw 7 earthquakes, which would include the Wasatch fault. With the project site being less than 9.5 miles from the active Weber segment of the Wasatch fault, we accounted for directivity effects of near-fault conditions using the method presented by Bayless and Somerville[9]. The initial results of the probabilistic spectrum for each of the GMPEs used are shown below.

[7] Moschetti, M.P., Hartzell, S., Ramírez-Guzmán, L., Frankel, A.D., Angster, S.J., and Stephenson, W.J. (2017). 3D Ground-Motion Simulations of Mw 7 Earthquakes on the Salt Lake City Segment of the Wasatch Fault Zone: Variability of Long-Period (T≥1 s) Ground Motions and Sensitivity to Kinematic Rupture Parameters. Bulletin of the Seismological Society of America published ahead of print June 20, 2017, doi:10.1785/0120160307.

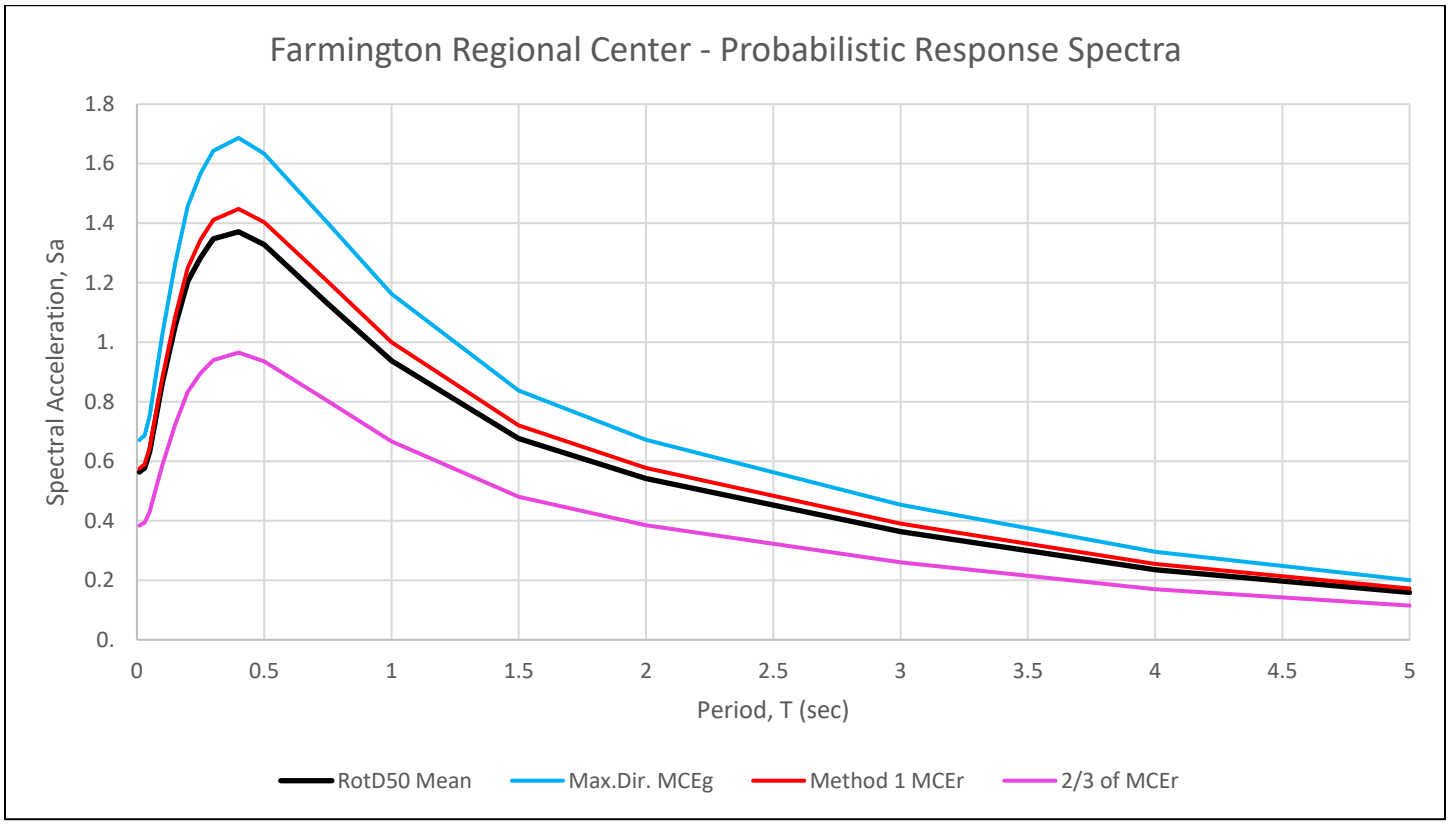
[8] Bryant, B., 1990, Geologic Map of the Salt Lake City, 30' x 60' Quadrangle, North-Central Utah and Uinta County, Wyoming, USGS Map I-1944.

[9] Bayless, J., and Somerville, P. (2013). "Bayless-Somerville Directivity Model, Chapter 3 of PEER Report No. 2013/09", P. Spudich (Editor), Pacific Earthquake Engineering Research Center, Berkeley, CA



The values obtained as shown above are calculated as the geo-mean spectral accelerations in the horizontal plane (RotD50). ASCE 7-16 Section 21.2 requires that maximum accelerations in the horizontal plane (RotD100) be used for the spectral response. Section 21.2 also provides default directivity scaling factors, but allows the use of other appropriate scaling factors. For our analysis, we used the scaling factors presented by Shahi and Baker[10] to obtain the corrected (RotD100) spectral values for the mean spectrum shown above (in black). These corrected values were then adjusted for risk using the mapped risk coefficients C_{RS} and C_{R1}, 0.864 and 0.882, respectively, estimated from Figures 22-17 and 22-18 of ASCE 7-16 (see ***OSHPD Results*** in ***Appendix B***). These risk coefficients were used to modify the mean probabilistic spectral response accelerations (shown above) per Method 1 of Section 21.2.1 of ASCE 7-16 by multiplying with C_{RS} for periods up to and including 0.2 seconds, with C_{R1} for periods higher than and including 1.0 second, and using linear interpolation between 0.2 and 1.0 seconds. These adjustments resulted in the probabilistic risk-targeted (MCE_R) response spectrum, as shown (in red) below.

[10] Shahi, S.K., and Baker, J.W. (2014). "NGA-West2 Models for Ground Motion Directionality". Earthquake Spectra, 30(3), pp. 1285-1300.



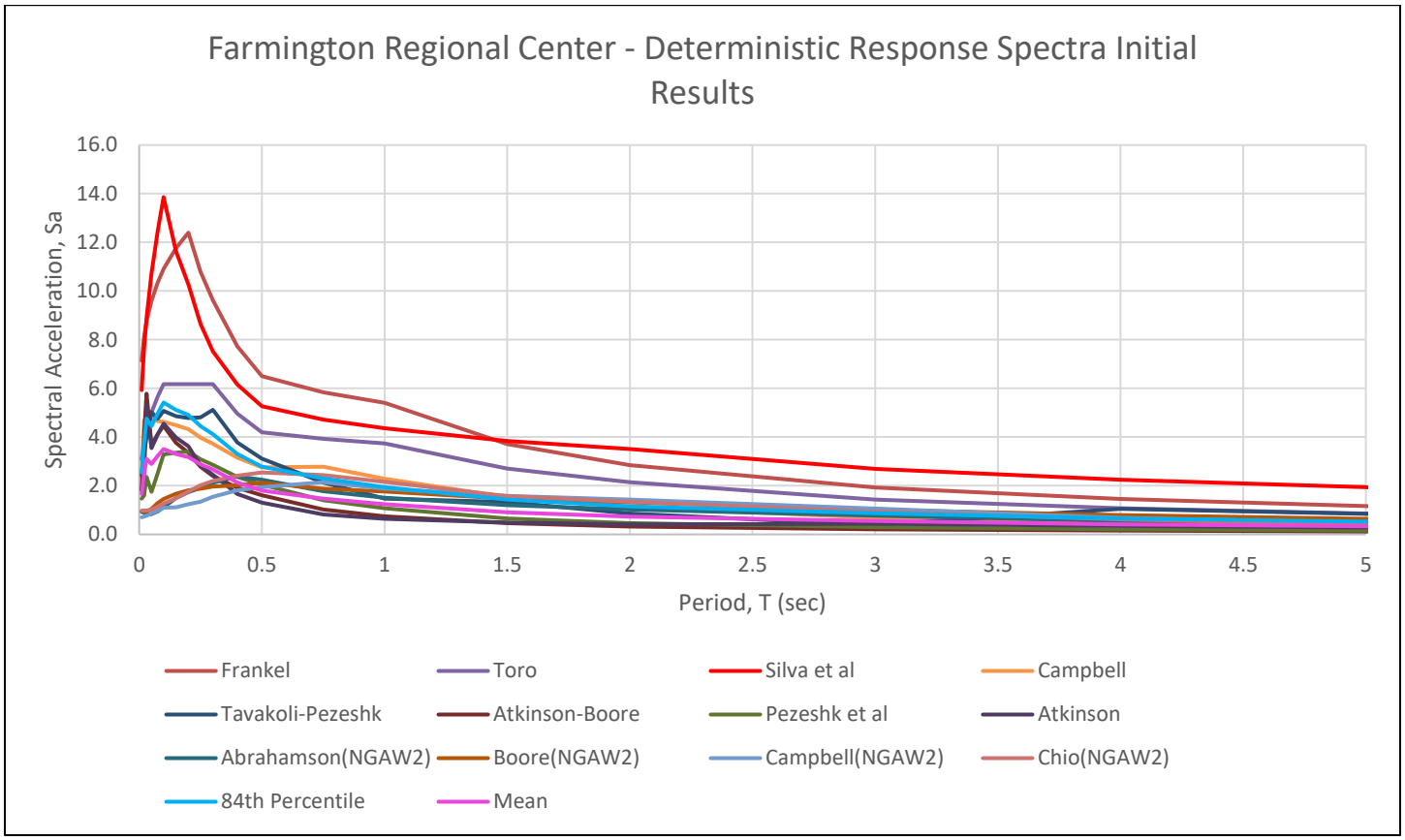
3.3 Deterministic Seismic Hazard Analysis

The Deterministic Seismic Hazard Analysis (DSHA) was also performed using the GMPE's listed above. This analysis was based on seismic characteristics, such as distance from the site to the causative fault and maximum magnitude of the earthquake associated with that fault, as listed in the summary table below for faults located within 200 kilometers (124 miles) of the site.

Source	Region	Closest Deterministic Fault		Dip Angle/ Dips To:	Site Lies:
		Distance (km)	Magnitude (Mw)/ Mechanism		
CEUS Gridded Source	USGS 2014 CEUS Gridded Source	0	0.0000 Strike Slip	90.0000 --	Above
Shallow - Extensional Gridded	USGS 2014 WUS Gridded Source	0	8.0000 N|SS	90.0000 --	Above
Wasatch fault, Weber section [2351e]	USGS 2014 Utah	0.74	7.1600 Normal	35-65 W	SW
Salt Lake City - Wasatch Fault Source Model	USGS 2014 Utah	0.78	7.4010 N|SS	35-90 W	Above
Morgan fault [2353abc]	USGS 2014 Utah	11.67	6.5200 Normal	35-65 W	SW
West Valley fault [2386]	USGS 2014 Utah	18.84	6.5000 Normal	35-65 E	N
W65G35 West Valley (Wasatch 65) fault (dip 35)	USGS 2014 Utah	19.22	6.5000 Normal	35.0000 E	N
W50G35 West Valley (Wasatch 50) fault (dip 35)	USGS 2014 Utah	19.63	6.5000 Normal	35.0000 E	N
W35G35 West Valley (Wasatch 35) fault (dip 35)	USGS 2014 Utah	20.21	6.5000 Normal	35.0000 E	N
W65G50 West Valley (Wasatch 65) fault (dip 50)	USGS 2014 Utah	20.81	6.5000 Normal	50.0000 E	N
W50G50 West Valley (Wasatch 50) fault (dip 50)	USGS 2014 Utah	20.94	6.5000 Normal	50.0000 E	N

Source	Region	Closest Deterministic Fault		Dip Angle/ Dips To:	Site Lies:
		Distance (km)	Magnitude (Mw)/ Mechanism		
W35G50 West Valley (Wasatch 35) fault (dip 50)	USGS 2014 Utah	21.32	6.5000 Normal	50.0000 E	N
W50G65 West Valley (Wasatch 50) fault (dip 65)	USGS 2014 Utah	22.45	6.5000 Normal	65.0000 E	N
W65G65 West Valley (Wasatch 65) fault (dip 65)	USGS 2014 Utah	22.45	6.5000 Normal	65.0000 E	N
W35G65 West Valley (Wasatch 35) fault (dip 65)	USGS 2014 Utah	22.46	6.5000 Normal	65.0000 E	N
Great Salt Lake fault zone, Antelope Island [2369c]	USGS 2014 Utah	30.45	6.9300 Normal	35-65 W	NE
Great Salt Lake fault zone, Fremont Island s [2369b]	USGS 2014 Utah	34.02	6.8300 Normal	35-65 SW	E
Wasatch fault, Brigham City section [2351d]	USGS 2014 Utah	34.9	6.9500 Normal	35-65 W	SE
Oquirrh-Southern Oquirrh Mountains fault [2398_2399]	USGS 2014 Utah	44.31	7.1700 Normal	35-65 W	NE
East Cache fault zone [2352abc]	USGS 2014 Utah	48.95	7.3100 Normal	35-65 W	S
Great Salt Lake fault zone, Promontory secti [2369a]	USGS 2014 Utah	51.84	7.0900 Normal	35-65 SW	SE
Wasatch fault, Provo section [2351g]	USGS 2014 Utah	55.45	7.2700 Normal	35-65 W	N
West Cache fault, Wellsville section [2521c]	USGS 2014 Utah	65.52	6.6000 Normal	35-65 NE	S
Stansbury fault zone [2395]	USGS 2014 Utah	72.1	7.0900 Normal	35-65 W	NE
Bear River fault zone [730]	USGS 2014 Wyoming	72.47	6.9000 Normal	35-65	W
West Cache fault zone, Junction Hills fault [2521b]	USGS 2014 Utah	78.3	6.7000 Normal	35-65 NE	S
Hansel Valley fault [2358]	USGS 2014 Utah	89.85	6.6000 Normal	35-65 E	SE
Eastern Bear Lake fault [2364abc]	USGS 2014 Idaho	91.38	7.2900 Normal	35-65 W	S
North Promontory fault [2361]	USGS 2014 Nevada	96.7	6.7300 Normal	35-65 W	SE
Strawberry fault [2412]	USGS 2014 Utah	97.07	6.9200 Normal	35-65 W	NW
Wasatch fault, Nephi section [2351h]	USGS 2014 Utah	100.23	7.0100 Normal	35-65 W	N
West Cache fault, Clarkston section [2521a]	USGS 2014 Utah	101.62	6.6600 Normal	35-65 E	S
Rock Creek fault [729]	USGS 2014 Wyoming	116.95	6.9500 Normal	35-65 W	SW
Wasatch fault, Levan section [2351i]	USGS 2014 Utah	149.83	6.8300 Normal	35-65 W	N
Joes Valley fault zone [2455]	USGS 2014 Utah	160.39	7.0200 Normal	35-65 W	N
Grand Valley fault [726c]	USGS 2014 Wyoming	182.6	7.1000 Normal	35-65 W	S
Greys River fault [728]	USGS 2014 Wyoming	193.01	7.0500 Normal	35-65 W	SW

Local soil conditions are also accounted for within the GMPEs used for this study, as mentioned above. The accelerations calculated for characteristic earthquakes on all known active faults and background (gridded) earthquakes in the vicinity of the site were utilized to obtain the 84th percentile and mean results presented below and in ***Appendix A***. With the project site being within 15 km of the Wasatch fault (Weber segment), we accounted for directivity effects of near-fault conditions using the method presented by Bayless and Somerville[9] (see referenced in **Section 3.2** above). The initial results of the deterministic spectrum for each of the GMPEs used are shown below.



The contribution of each fault source was also provided in the program output, with the results listed in the table below:

Source	Region	Magnitude		Distance (km)		Contribution (%)
		Mode	Mean	Mode	Mean	
Wasatch fault, Weber section [2351e]	USGS 2014 Utah	7.15	7.03	1.25	1.25	69.49
Salt Lake City - Wasatch Fault Source Model	USGS 2014 Utah	6.95	6.92	13.75	15.41	17.01
Shallow - Extensional Gridded	USGS 2014 WUS Gridded Source	6.45	6.27	6.25	12.33	10.48
CEUS Gridded Source	USGS 2014 CEUS Gridded Source	5.05	5.68	13.75	28.84	0.97
Morgan fault [2353abc]	USGS 2014 Utah	6.55	6.54	11.25	13.36	0.78
Wasatch fault, Brigham City section [2351d]	USGS 2014 Utah	7.05	7.02	36.25	36.30	0.29
Great Salt Lake fault zone, Antelope Island [2369c]	USGS 2014 Utah	6.95	6.92	31.25	30.50	0.18
W50G50 West Valley (Wasatch 50) fault (dip 50)	USGS 2014 Utah	6.55	6.56	21.25	20.95	0.17
West Valley fault [2386]	USGS 2014 Utah	6.55	6.56	21.25	20.38	0.16
W50G35 West Valley (Wasatch 50) fault (dip 35)	USGS 2014 Utah	6.55	6.56	18.75	19.64	0.08
W65G50 West Valley (Wasatch 65) fault (dip 50)	USGS 2014 Utah	6.55	6.56	21.25	20.82	0.07
Great Salt Lake fault zone, Fremont Island s [2369b]	USGS 2014 Utah	6.85	6.89	33.75	34.26	0.06
W35G50 West Valley (Wasatch 35) fault (dip 50)	USGS 2014 Utah	6.65	6.57	21.25	21.33	0.05
W50G65 West Valley (Wasatch 50) fault (dip 65)	USGS 2014 Utah	6.65	6.57	21.25	22.46	0.04

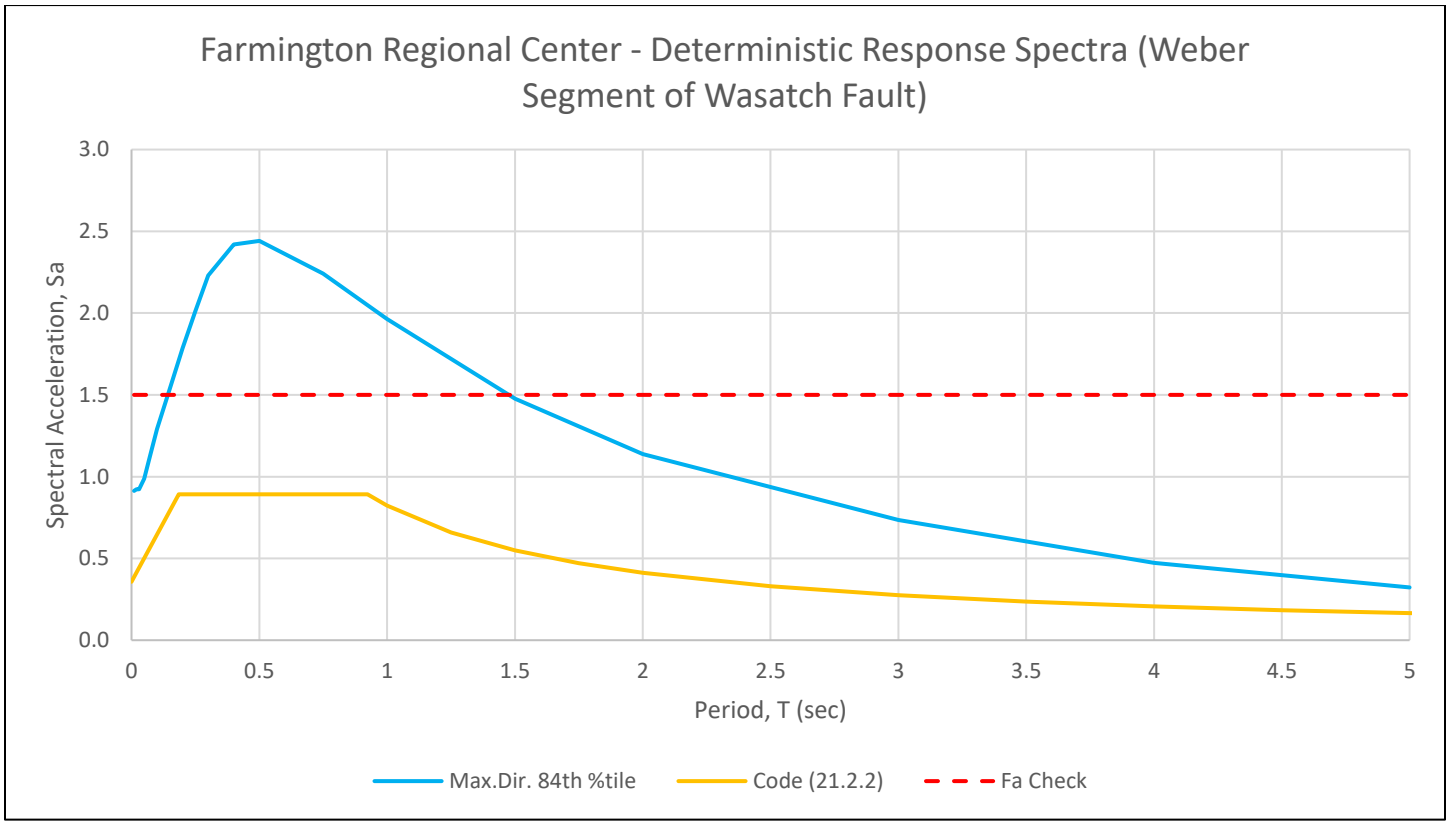
Source	Region	Magnitude		Distance (km)		Contribution (%)
		Mode	Mean	Mode	Mean	
West Cache fault, Wellsville section [2521c] USGS 2014 Utah	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
W65G35 West Valley (Wasatch 65) fault (dip 35)	USGS 2014 Utah	6.55	6.56	18.75	19.23	0.03
West Cache fault, Wellsville section [2521c] USGS 2014 Utah	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
W35G35 West Valley (Wasatch 35) fault (dip 35)	USGS 2014 Utah	6.55	6.56	21.25	20.22	0.02
West Cache fault, Wellsville section [2521c] USGS 2014 Utah	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
Stansbury fault zone [2395]	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
W35G65 West Valley (Wasatch 35) fault (dip 65)	USGS 2014 Utah	6.65	6.57	21.25	22.47	0.01
West Cache fault, Wellsville section [2521c] USGS 2014 Utah	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
West Cache fault, Wellsville section [2521c] USGS 2014 Utah	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
Stansbury fault zone [2395]	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
Bear River fault zone [730]	USGS 2014 Wyoming	N/A	N/A	N/A	N/A	0.00
West Cache fault zone, Junction Hills fault [2521b]	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
Hansel Valley fault [2358]	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
Eastern Bear Lake fault [2364abc]	USGS 2014 Idaho	N/A	N/A	N/A	N/A	0.00
North Promontory fault [2361]	USGS 2014 Nevada	N/A	N/A	N/A	N/A	0.00
Strawberry fault [2412]	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
Wasatch fault, Nephi section [2351h]	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
West Cache fault, Clarkston section [2521a]	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
Rock Creek fault [729]	USGS 2014 Wyoming	N/A	N/A	N/A	N/A	0.00
Wasatch fault, Levan section [2351i]	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
Joes Valley fault zone [2455]	USGS 2014 Utah	N/A	N/A	N/A	N/A	0.00
Grand Valley fault [726c]	USGS 2014 Wyoming	N/A	N/A	N/A	N/A	0.00
Greys River fault [728]	USGS 2014 Wyoming	N/A	N/A	N/A	N/A	0.00

As indicated in the above table, the DSHA is controlled (approximately 69% contribution) by potential rupture of the Weber segment of the Wasatch fault zone. The surface projection of the main trace of this fault zone is located approximately 1.0 kilometers northeast of the site. Since this fault dips to the west, the site is located on the hanging-wall side of the fault, and the closest orthogonal distance to the potential rupture surface is about 0.74 kilometers (see first table above).

EZFRISK considers three fault rupture scenarios for the Wasatch fault: full segment rupture, partial segment rupture, and rupture of the entire length of the fault. For deterministic ground motions, the largest characteristic (moment) magnitude is 7.4 for rupture of the entire ±357-kilometer length of the Wasatch fault, where all segments rupture simultaneously. However, the paleoseismic data suggests the various segments of the Wasatch fault have ruptured somewhat independently[11]. Accordingly, it is our opinion this highly unlikely fault rupture scenario should not be included for estimation of deterministic ground motions, but should instead be divided into individual fault segments. Accordingly, we used specific parameters from the Weber segment

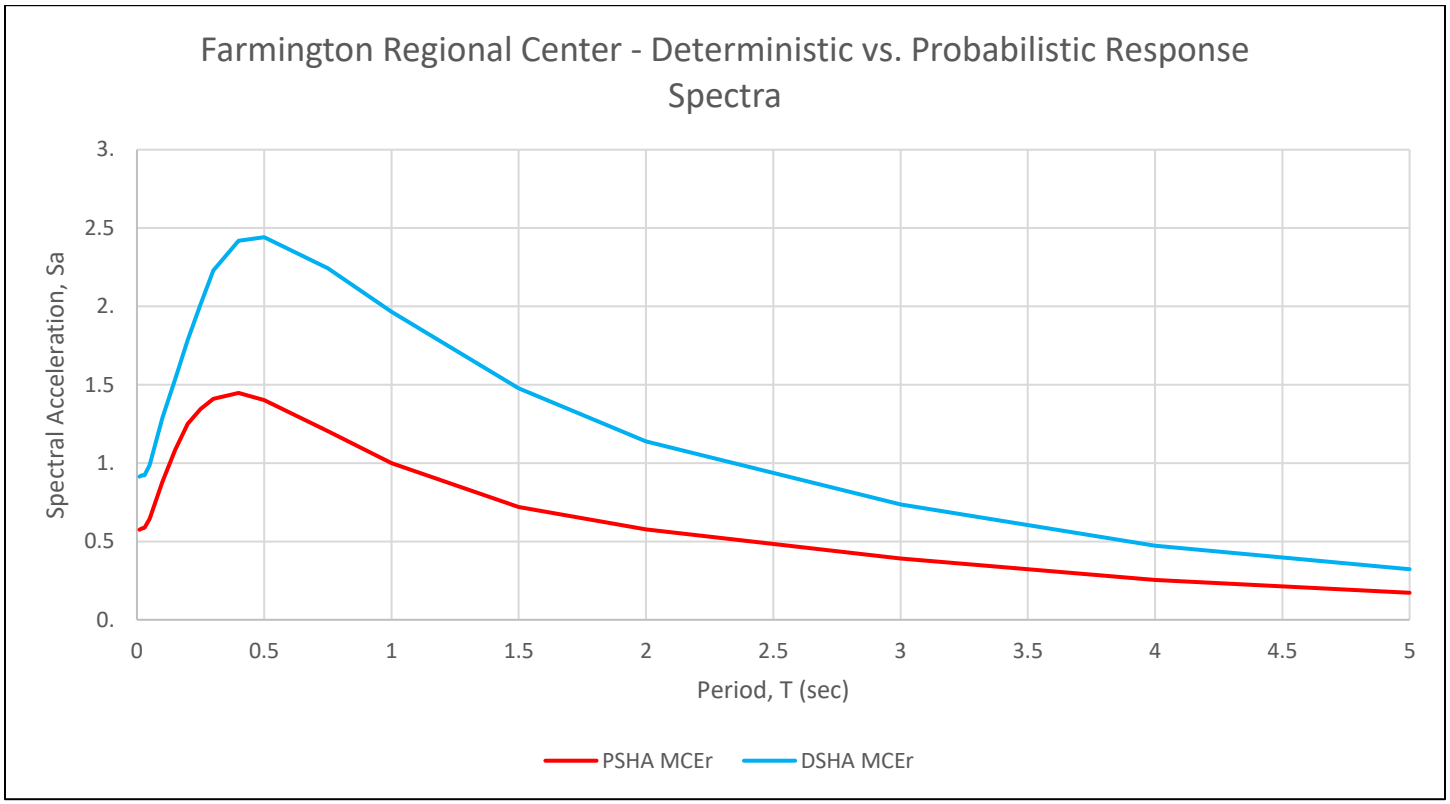
[11] https://earthquake.usgs.gov/cfusion/qfault/show_report_AB_archive.cfm?fault_id=2351&section_id=f

of the Wasatch fault as input into the NGA West2 worksheet/spreadsheet tool to obtain RotD50 (geometric mean) deterministic spectral values (see ***GMHA Summary*** in ***Appendix B***). ASCE 7-16 Section 21.2 requires that maximum accelerations in the horizontal plane (RotD100) be used for the spectral response. Section 21.2 also provides default directivity scaling factors, but allows the use of other appropriate scaling factors. For our analysis, we used the scaling factors presented by Shahi and Baker[10] (referenced above in **Section 3.2**) to obtain the corrected (RotD100) spectral values for the mean spectrum shown above (in black). These results are shown below, along with the code-based values. We also note that the maximum spectral accelerations exceeded the required minimum value of 1.5 times Fa (Fa=1.0 from OSHPD website), or 1.50, and thus do not need to be adjusted. ASCE 7-16 dictates that the maximum 84th percentile deterministic spectrum should not be lower than the code-based ordinate values, as defined in ASCE 7-16 Supplement 1 of Section 21.2.2. Accordingly, we compared the site-specific maximum 84th percentile deterministic spectra to the code-based values for the site, as shown below, which indicates that those spectral values are not less than the code-based spectrum and, thus, also do not need to be adjusted.

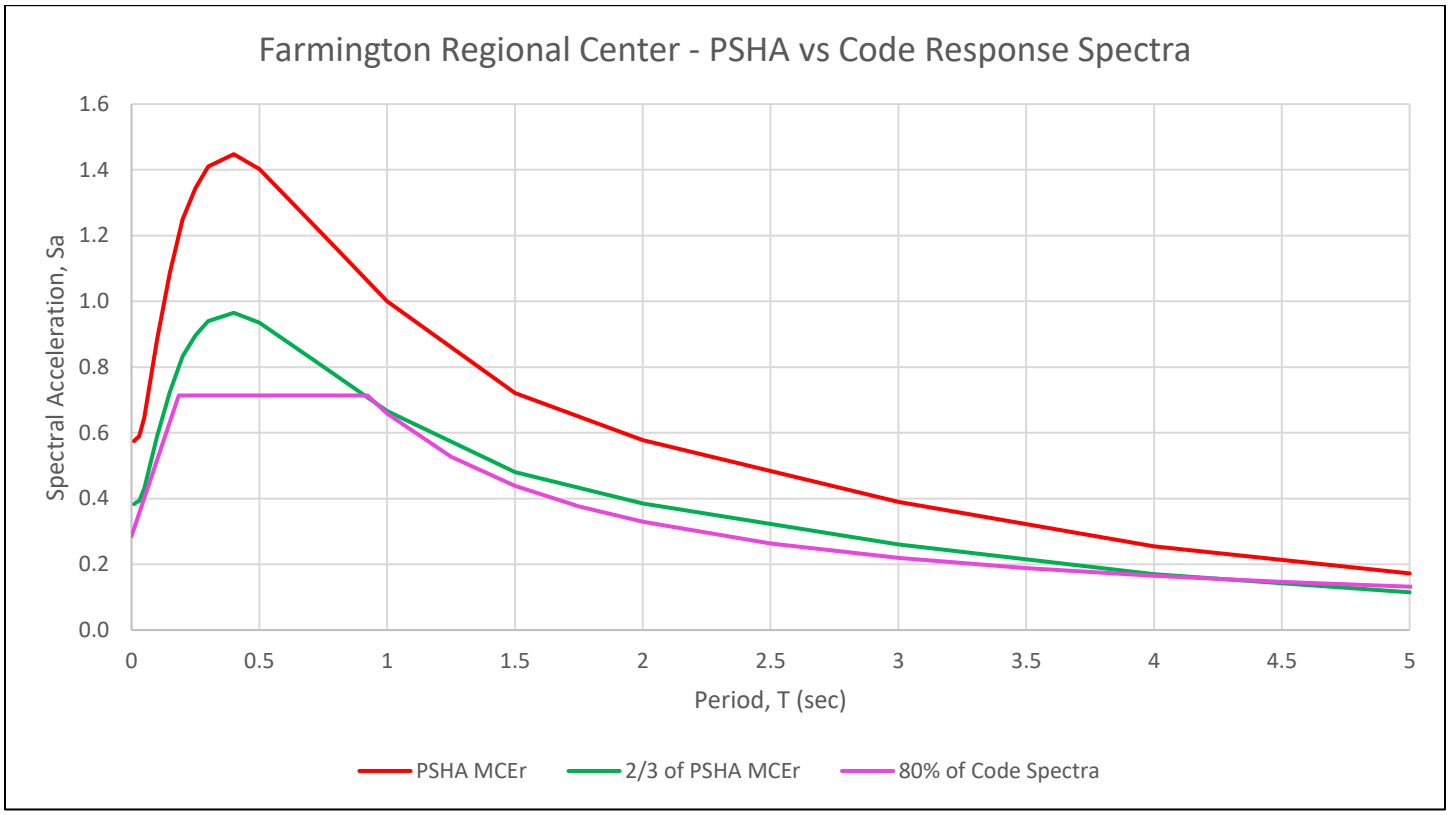


3.4 Site-Specific Seismic Design Parameters

The site-specific MCE_R spectral response acceleration is typically taken as the lesser of the PSHA and DSHA spectral response accelerations. As shown in the graph below, the probabilistic spectral response is lower than the deterministic spectral response. Accordingly, we recommend using the PSHA spectrum for the final design spectrum at this site.



We developed the final MCE_R response spectrum by comparing two-thirds of the PSHA spectral acceleration values with 80% of the code-based design spectrum as determined using the procedures of ASCE 7-16 Section 11.4.6 and the modified parameters in Section ASCE 7-16 Section 21.3. As required by ASCE 7-16 Section 21.3, this comparison (see below) shows that two-thirds of the mean PSHA site-specific design spectral accelerations are higher than the modified code-based design response accelerations for periods up to about 4.1 seconds, and lower than the modified code-based design response accelerations for periods beyond that. Therefore, the recommended site-specific horizontal design response spectrum is governed by the mean site-specific PSHA design response spectrum up to a period of about 4.1 seconds, and by the modified code-based response spectrum for periods greater than that.

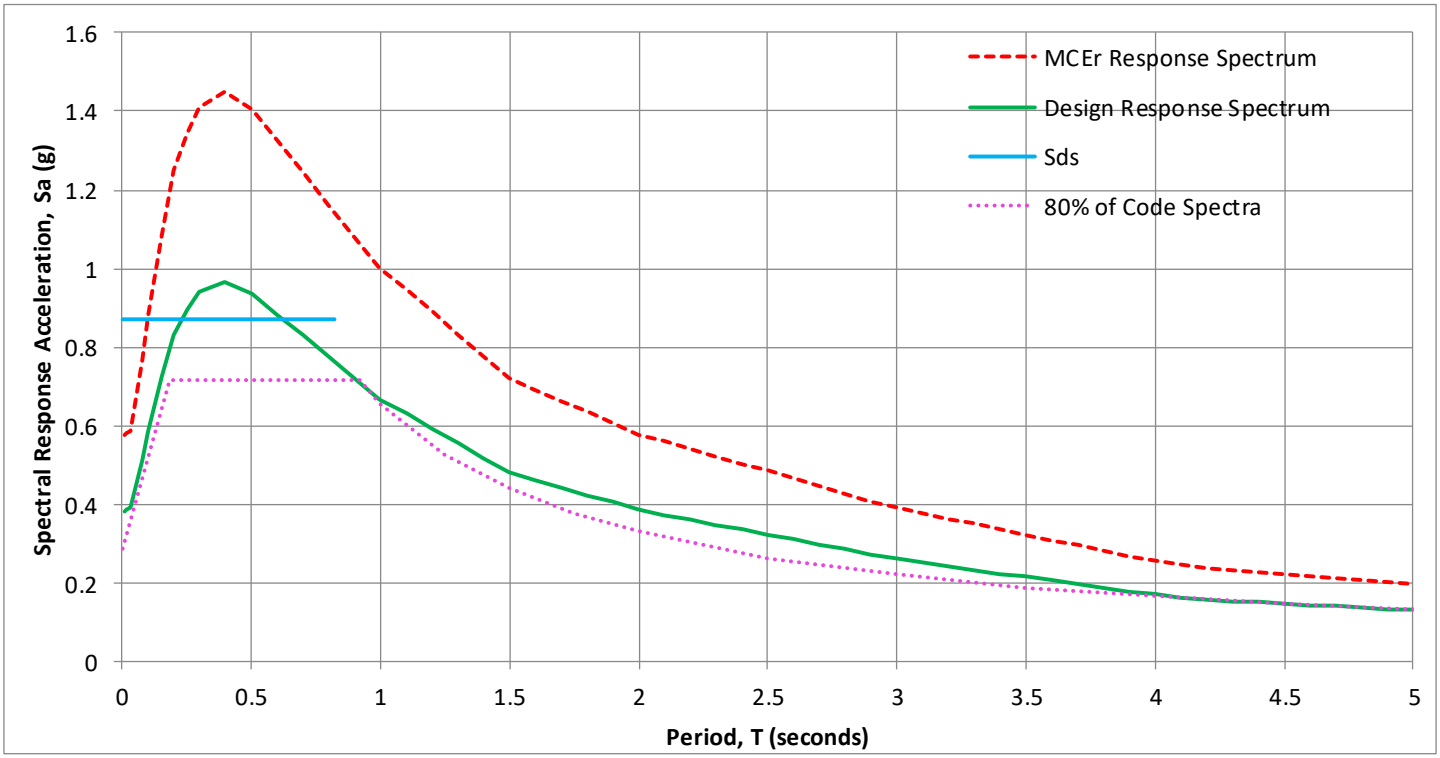


The short-period design spectral acceleration (S_{DS}) and 1-second period design spectral acceleration (S_{D1}) parameters were calculated in accordance with ASCE 7-16 Section 21.4. The parameter S_{DS} is 90% of the maximum design spectral acceleration between periods of 0.2 and 5 seconds, which resulted in 0.869. The parameter S_{D1} is the maximum value of the product of the period (T) and the spectral acceleration for periods from 1 to 5 seconds, which resulted in 0.807. The parameters S_{MS} and S_{M1} are 1.5 times S_{DS} and S_{D1}, respectively. The values of S_{MS}, S_{M1}, S_{DS}, and S_{D1} cannot be less than 80% of the values determined by ASCE 7-16 Sections 11.4.4 and 11.4.5, modified according to Section 21.3. For the subject site, the calculated values of S_{MS}, S_{DS}, S_{M1} and S_{D1} are greater than or equal to the minimum required values, thus we used the calculated values. These site-specific seismic design parameters and the design and MCE_R spectrum are shown below, as well as in **Section 1.4, Executive Summary**.

SPECTRAL ACCELERATION VALUE, T	SITE CLASS B/C BOUNDARY [mapped values] (g)	SITE CLASS D [GMHA Results] (g)	MULTIPLIER	DESIGN VALUES (g)
Peak Ground Acceleration	PGA_M = **0.735**	PGA_M = 0.575	1.000	PGA_M = 0.575
0.2 Seconds (Long Period Acceleration)	S_S = **1.338**	S_{MS} = 1.303	0.667	S_{DS} = 0.869
1.0 Second (Long Period Acceleration)	S_1 = **0.494**	S_{M1} = 1.210	0.667	S_{D1} = 0.807

NOTES: *** Site Class D With Data**

1. T_L (seconds): **8**
2. Site Class: **D**
3. Have data to verify? **Yes**



4.0 LIMITATIONS

The recommendations provided herein were developed by evaluating the information obtained from the subsurface explorations and soils encountered therein. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated.

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either expressed or implied.

We appreciate the opportunity to be of service to you on this project. If we can be of further assistance or if you have any questions regarding this project, please do not hesitate to contact us at (801) 590-0394. To schedule materials testing, please call (801) 381-5141.

APPENDIX A

EZ-FRISK DATA

```
                ********************************************
                *****                EZ-FRISK              *****
                ***** SEISMIC HAZARD ANALYSIS DEFINITION *****
                *****       FUGRO CONSULTANTS, INC.      *****
                *****        WALNUT CREEK, CA  USA       *****
                ********************************************

PROGRAM VERSION
  EZ-FRISK 8.07 Build 044

ANALYSIS TITLE:
  Farmington Regional Center

ANALYSIS TYPE:
  Single Site Analysis

SITE COORDINATES
  Latitude 40.9904
  Longitude -111.9

INTENSITY TYPE:  Spectral Response @ 5% Damping

HAZARD DEAGGREGATION
  Status: ON
  Deagregation Scenario 1
    Period:             PGA
    Amplitude:          0.5 Acceleration (g)
  Bin Configuration
    Magnitude
      Scale:         Moment Magnitude
      Lowest Value:  5 Mw
      Highest Value: 9 Mw
      Bin Size:      0.1
    Distance
      Lowest Value:  0 km
      Highest Value: 102.5 km
      Bin Size:      2.5 km
    Epsilon
      Lowest Value:  -2.2
      Highest Value: 4.2
      Bin Size:      0.2

SOIL AMPLIFICATION
  Method: Do not use soil amplification

ATTENUATION EQUATION SITE PARAMETERS
  Depth[Vs=1000m/s] (m): 400
  Estimate Z1 from Vs30 for CY NGA: 0
  Regional Code: Global
  Subduction Zone Setting: Unknown
  Vs30 (m/s): 237
  Vs30 Is Measured: 1
  Z25 (km): 2.65

AMPLITUDES - Acceleration (g)
  0.0001
  0.0005
  0.001
  0.005
  0.007
  0.01
  0.02
  0.05
  0.07
  0.1
  0.2
  0.3
  0.4
  0.5
  0.6
  0.7
  0.8
  1
  1.2
  1.5
  2
  3
  4
  5
  7
  10

PERIODS (s)
  PGA
  0.02
  0.03
  0.05
  0.075
  0.1
  0.15
```

0.2
0.25
0.3
0.4
0.5
0.75
1
1.5
2
3
4
5
7.5
10

DETERMINISTIC FRACTILES
0.84
Mean

PLOTTING PARAMETERS
Period at which to plot PGA: 0.01

CALCULATIONAL PARAMETERS
Fault Seismic Sources -
Maximum inclusion distance : 200 km
Down dip integration increment : 1 km
Horizontal integration increment : 1 km
Number rupture length per earthquake : 1
Subduction Interface Seismic Sources -
Maximum inclusion distance : 200 km
Down dip integration increment : 5 km
Horizontal integration increment : 20 km
Number rupture length per earthquake : 1
Subduction Slab Seismic Sources -
Maximum inclusion distance : 200 km
Down dip integration increment : 5 km
Horizontal integration increment : 20 km
Number rupture length per earthquake : 1
Area Seismic Sources -
Maximum inclusion distance : 200 km
Vertical integration increment : 3 km
Number of rupture azimuths : 3
Minimum epicentral distance step : 0.5 km
Maximum epicentral distance step : 10 km
Gridded Seismic Sources -
Maximum inclusion distance : 200 km
Default number of rupture azimuths : 20
Maximum distance for default azimuths : 40 km
Minimum distance for one azimuth : 150
Use binned calcuations if possible : true
Bins per decade in distance (km) : 20
All Seismic Sources -
Magnitude integration step : 0.1 M
Apply magnitude scaling : NO
Include near-source directivity : YES
Method : Bayless and Somerville (2013)
Component : RotD50
Hypocenter integration increment : 5 km

ATTENUATION EQUATIONS

Name: Abrahamson-et al (2014) NGA West 2 USGS 2014
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: Abrahamson-et al 2014 NGA West 2
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Distance To Rupture

Name: Atkinson (2008p) USGS 2014 Table Soil
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: Table
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Horizontal Distance To Rupture

Name: Atkinson-Boore (2006p) USGS 2014 Table Soil
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: Table
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Distance To Rupture

Name: Boore-et al (2014) NGA West 2 USGS 2014
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: Boore-et al 2014 NGA West 2
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3

Magnitude Scale: Moment Magnitude
Distance Type: Horizontal Distance To Rupture

Name: Campbell (2003) USGS 2008 Mw
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: NEHRP Soil Amplifier
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Distance To Rupture

Name: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: Campbell-Bozorgnia 2014 NGA West 2
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Distance To Rupture

Name: Chiou-Youngs (2014) NGA West 2 USGS 2014
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: Chiou-Youngs 2014 NGA West 2
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Distance To Rupture

Name: Frankel (1996) USGS 2008 Truncated Mw
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: NEHRP Soil Amplifier
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Distance To Rupture

Name: Pezeshk et al (2011) USGS 2014 Table Soil
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: Table
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Distance To Rupture

Name: Silva et al (2002) USGS 2008 Mw
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: NEHRP Soil Amplifier
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Horizontal Distance To Rupture

Name: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: Tavakoli and Pezeshk 2005
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Distance To Rupture

Name: Toro (1999) Midcontinent - USGS 2008 Mw
Database: C:\Program Files (x86)\EZ-FRISK 8.07\Files\standard.bin-attendb
Base: NEHRP Soil Amplifier
Truncation Type: USGS 2008 NSHM Truncation
Truncation Value: 3
Magnitude Scale: Moment Magnitude
Distance Type: Horizontal Distance To Rupture

SEISMIC SOURCE SUMMARY TABLE

Site Source	Region	Closest Distance	Deterministic Magnitude	Fault Mechanism	Dip Angle	Dips To
CEUS Gridded Source	USGS 2014 CEUS Gridded Source	0.00	0.0000	Strike Slip	90.0000	--
Shallow - Extensional Gridded	USGS 2014 WUS Gridded Source	0.00	8.0000	N|SS	90.0000	--
Wasatch fault, Weber section [2351e]	USGS 2014 Utah	0.74	7.1600	Normal	35-65	W
Salt Lake City - Wasatch Fault Source Model	USGS 2014 Utah	0.78	7.4010	N|SS	35-90	W
Morgan fault [2353abc]	USGS 2014 Utah	11.67	6.5200	Normal	35-65	W
West Valley fault [2386]	USGS 2014 Utah	18.84	6.5000	Normal	35-65	E
W65G35 West Valley (Wasatch 65) fault (dip 35)	USGS 2014 Utah	19.22	6.5000	Normal	35.0000	E
W50G35 West Valley (Wasatch 50) fault (dip 35)	USGS 2014 Utah	19.63	6.5000	Normal	35.0000	E

W35G35 West Valley (Wasatch 35) fault (dip 35) USGS 2014 Utah 20.21 6.5000 Normal 35.0000 E
N
W65G50 West Valley (Wasatch 65) fault (dip 50) USGS 2014 Utah 20.81 6.5000 Normal 50.0000 E
N
W50G50 West Valley (Wasatch 50) fault (dip 50) USGS 2014 Utah 20.94 6.5000 Normal 50.0000 E
N
W35G50 West Valley (Wasatch 35) fault (dip 50) USGS 2014 Utah 21.32 6.5000 Normal 50.0000 E
N
W50G65 West Valley (Wasatch 50) fault (dip 65) USGS 2014 Utah 22.45 6.5000 Normal 65.0000 E
N
W65G65 West Valley (Wasatch 65) fault (dip 65) USGS 2014 Utah 22.45 6.5000 Normal 65.0000 E
N
W35G65 West Valley (Wasatch 35) fault (dip 65) USGS 2014 Utah 22.46 6.5000 Normal 65.0000 E
N
Great Salt Lake fault zone, Antelope Island [2369c] USGS 2014 Utah 30.45 6.9300 Normal 35-65 W
NE
Great Salt Lake fault zone, Fremont Island s [2369b] USGS 2014 Utah 34.02 6.8300 Normal 35-65 SW
E
Wasatch fault, Brigham City section [2351d] USGS 2014 Utah 34.90 6.9500 Normal 35-65 W
SE
Oquirrh-Southern Oquirrh Mountains fault [2398_2399] USGS 2014 Utah 44.31 7.1700 Normal 35-65 W
NE
East Cache fault zone [2352abc] USGS 2014 Utah 48.95 7.3100 Normal 35-65 W
S
Great Salt Lake fault zone, Promontory secti [2369a] USGS 2014 Utah 51.84 7.0900 Normal 35-65 SW
SE
Wasatch fault, Provo section [2351g] USGS 2014 Utah 55.45 7.2700 Normal 35-65 W
N
West Cache fault, Wellsville section [2521c] USGS 2014 Utah 65.52 6.6000 Normal 35-65 NE
S
Stansbury fault zone [2395] USGS 2014 Utah 72.10 7.0900 Normal 35-65 W
NE
Bear River fault zone [730] USGS 2014 Wyoming 72.47 6.9000 Normal 35-65 W
W
West Cache fault zone, Junction Hills fault [2521b] USGS 2014 Utah 78.30 6.7000 Normal 35-65 NE
S
Hansel Valley fault [2358] USGS 2014 Utah 89.85 6.6000 Normal 35-65 E
SE
Eastern Bear Lake fault [2364abc] USGS 2014 Idaho 91.38 7.2900 Normal 35-65 W
S
North Promontory fault [2361] USGS 2014 Nevada 96.70 6.7300 Normal 35-65 W
SE
Strawberry fault [2412] USGS 2014 Utah 97.07 6.9200 Normal 35-65 W
NW
Wasatch fault, Nephi section [2351h] USGS 2014 Utah 100.23 7.0100 Normal 35-65 W
N
West Cache fault, Clarkston section [2521a] USGS 2014 Utah 101.62 6.6600 Normal 35-65 E
S
Rock Creek fault [729] USGS 2014 Wyoming 116.95 6.9500 Normal 35-65 W
SW
Wasatch fault, Levan section [2351i] USGS 2014 Utah 149.83 6.8300 Normal 35-65 W
N
Joes Valley fault zone [2455] USGS 2014 Utah 160.39 7.0200 Normal 35-65 W
N
Grand Valley fault [726c] USGS 2014 Wyoming 182.60 7.1000 Normal 35-65 W
S
Greys River fault [728] USGS 2014 Wyoming 193.01 7.0500 Normal 35-65 W
SW

SEISMIC SOURCES

Name: CEUS Gridded Source
Region: USGS 2014 CEUS Gridded Source
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forCEUS Gridded Source -------
Name: CEUS_adGridded_2014_2zone_Mmax 6.5-6.8
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees: 0.1
  Longitude Increment, degrees: 0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters (Varies point to point?)
  Cell Weight: 1 Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0 Yes
  Rate at Minimum Magnitude, events per year: 0 Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5

```
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_2zone_Mmax 7.0-7.2
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                 Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                           Yes
  Rate at Minimum Magnitude, events per year: 0  Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_2zone_Mmax 7.5-7.6
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                 Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                           Yes
  Rate at Minimum Magnitude, events per year: 0  Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_2zone_Mmax 8.0
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                 Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                           Yes
  Rate at Minimum Magnitude, events per year: 0  Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_4zone_Mmax 6.5-6.8
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                 Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
```

```
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                          Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_4zone_Mmax 7.0-7.2
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                          Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_4zone_Mmax 7.5-7.6
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                          Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_4zone_Mmax 8.0
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                          Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_2zone_Mmax 6.5-6.8
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
```

```
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                  Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025                                    Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_2zone_Mmax 7.0-7.2
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                  Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025                                    Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_2zone_Mmax 7.5-7.6
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                  Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025                                    Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_2zone_Mmax 8.0
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                  Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025                                    Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_4zone_Mmax 6.5-6.8
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008
```

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees: 0.1
  Longitude Increment, degrees: 0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters   (Varies point to point?)
  Cell Weight: 1   Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0   Yes
  Rate at Minimum Magnitude, events per year: 0 Yes
  Beta: 2.3025   Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_4zone_Mmax 7.0-7.2
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees: 0.1
  Longitude Increment, degrees: 0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters   (Varies point to point?)
  Cell Weight: 1   Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0   Yes
  Rate at Minimum Magnitude, events per year: 0 Yes
  Beta: 2.3025   Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_4zone_Mmax 7.5-7.6
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees: 0.1
  Longitude Increment, degrees: 0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters   (Varies point to point?)
  Cell Weight: 1   Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0   Yes
  Rate at Minimum Magnitude, events per year: 0 Yes
  Beta: 2.3025   Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_4zone_Mmax 8.0
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees: 0.1
  Longitude Increment, degrees: 0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters   (Varies point to point?)
  Cell Weight: 1   Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0   Yes
  Rate at Minimum Magnitude, events per year: 0 Yes
  Beta: 2.3025   Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5

```
  Rupture Strike Azimuth Model: Random Strike

 ------ End Nested Sources for CEUS Gridded Source -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.06      0.060000          Frankel (1996) USGS 2008 Truncated Mw
      0.13      0.130000          Toro (1999) Midcontinent - USGS 2008 Mw
      0.06      0.060000          Silva et al (2002) USGS 2008 Mw
      0.13      0.130000          Campbell (2003) USGS 2008 Mw
      0.13      0.130000          Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
      0.25      0.250000          Atkinson-Boore (2006p) USGS 2014 Table Soil
      0.16      0.160000          Pezeshk et al (2011) USGS 2014 Table Soil
      0.08      0.080000          Atkinson (2008p) USGS 2014 Table Soil

****************************************

Name: Shallow - Extensional Gridded
Region: USGS 2014 WUS Gridded Source
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forShallow - Extensional Gridded -------
Name: Extensional Gridded, adSm, Tapered_M7.95, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.0133333
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 8
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, adSm, Tapered_M7.95, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.0266667
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 8
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, adSm, Truncated_M7.5, Char, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.16
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                          Yes
```

```
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, adSm, Truncated_M7.5, Char, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.08
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, adSm, Truncated_M7.5, GR, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.08
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, adSm, Truncated_M7.5, GR, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.04
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Tapered_M7.95, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.04
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5
```

```
Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 8
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Tapered_M7.95, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.02
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 8
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Truncated_M7.5, Char, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.24
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Truncated_M7.5, Char, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.12
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Truncated_M7.5, GR, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
```

```
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.12
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Truncated_M7.5, GR, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.06
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

 ------ End Nested Sources for Shallow - Extensional Gridded -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS 2014

*****************************************

Name: Wasatch fault, Weber section [2351e]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forWasatch fault, Weber section [2351e] -------
Name: 2351e Wasatch fault, Weber section (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.18000036
Deterministic Magnitude: 7.16

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001        15

Magnitude Recurrence Distributions:
       ModelType    Weight    RateType        Rate    MinMag    MaxMag      Beta      Mean     Sigma    Delta1    Delta2
          Normal 0.0160008    Activity  7.157e-004  6.710000  7.190000  2.300000  6.950000  0.120000  0.010000 10.000000
          Normal  0.048002    Activity  7.157e-004  6.910000  7.390000  2.300000  7.150000  0.120000  0.010000 10.000000
          Normal  0.016001    Activity  7.157e-004  7.110000  7.590000  2.300000  7.350000  0.120000  0.010000 10.000000
     Exponential  0.004000    Activity  1.937e-003  6.500000  6.950000  1.842068  0.000000  0.000000  0.000000  0.000000
     Exponential  0.011999    Activity  2.399e-003  6.500000  7.150000  1.842068  0.000000  0.000000  0.000000  0.000000
     Exponential  0.004000    Activity  2.719e-003  6.500000  7.350000  1.842068  0.000000  0.000000  0.000000  0.000000
          Normal  0.127999    Activity  7.157e-004  6.720000  7.200000  2.300000  6.960000  0.120000  0.010000 10.000000
          Normal  0.383997    Activity  7.157e-004  6.920000  7.400000  2.300000  7.160000  0.120000  0.010000 10.000000
          Normal  0.127999    Activity  7.157e-004  7.120000  7.600000  2.300000  7.360000  0.120000  0.010000 10.000000
     Exponential  0.032000    Activity  1.983e-003  6.500000  6.960000  1.842068  0.000000  0.000000  0.000000  0.000000
     Exponential  0.096001    Activity  2.441e-003  6.500000  7.160000  1.842068  0.000000  0.000000  0.000000  0.000000
     Exponential  0.032000    Activity  2.758e-003  6.500000  7.360000  1.842068  0.000000  0.000000  0.000000  0.000000
          Normal  0.016001    Activity  7.157e-004  6.710000  7.190000  2.300000  6.950000  0.120000  0.010000 10.000000
          Normal  0.048002    Activity  7.157e-004  6.910000  7.390000  2.300000  7.150000  0.120000  0.010000 10.000000
          Normal  0.016001    Activity  7.157e-004  7.110000  7.590000  2.300000  7.350000  0.120000  0.010000 10.000000
     Exponential  0.004000    Activity  1.937e-003  6.500000  6.950000  1.842068  0.000000  0.000000  0.000000  0.000000
```

Exponential	0.011999	Activity	2.399e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	2.719e-003	6.500000	7.350000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.3333	-111.9614
41.3068	-111.9307
41.2949	-111.9419
41.2772	-111.9491
41.2628	-111.9472
41.2598	-111.9398
41.2501	-111.9383
41.2406	-111.9277
41.2228	-111.9296
41.2148	-111.9242
41.2085	-111.9329
41.1868	-111.9396
41.1796	-111.9370
41.1767	-111.9290
41.1646	-111.9248
41.1509	-111.9069
41.1427	-111.9083
41.1314	-111.8983
41.1037	-111.9108
41.0852	-111.9044
41.0680	-111.9107
41.0556	-111.9039
41.0392	-111.9073
41.0291	-111.8997
41.0045	-111.8959
40.9992	-111.8852
40.9917	-111.8855
40.9770	-111.8747
40.9637	-111.8721
40.9608	-111.8795
40.9545	-111.8810
40.9460	-111.8743
40.9048	-111.8653
40.8905	-111.8526
40.8661	-111.8568
40.8494	-111.8870

Name: 2351e Wasatch fault, Weber section (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.54000108
Deterministic Magnitude: 7.16

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	7.157e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	7.157e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	7.157e-004	7.110000	7.590000	2.300000	7.350000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.937e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.399e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	2.719e-003	6.500000	7.350000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	7.157e-004	6.720000	7.200000	2.300000	6.960000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	7.157e-004	6.920000	7.400000	2.300000	7.160000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	7.157e-004	7.120000	7.600000	2.300000	7.360000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	1.983e-003	6.500000	6.960000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	2.441e-003	6.500000	7.160000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	2.758e-003	6.500000	7.360000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	7.157e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000

Normal	0.048002	Activity	7.157e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	7.157e-004	7.110000	7.590000	2.300000	7.350000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.937e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.399e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	2.719e-003	6.500000	7.350000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.3333	-111.9614
41.3068	-111.9307
41.2949	-111.9419
41.2772	-111.9491
41.2628	-111.9472
41.2598	-111.9398
41.2501	-111.9383
41.2406	-111.9277
41.2228	-111.9296
41.2148	-111.9242
41.2085	-111.9329
41.1868	-111.9396
41.1796	-111.9370
41.1767	-111.9290
41.1646	-111.9248
41.1509	-111.9069
41.1427	-111.9083
41.1314	-111.8983
41.1037	-111.9108
41.0852	-111.9044
41.0680	-111.9107
41.0556	-111.9039
41.0392	-111.9073
41.0291	-111.8997
41.0045	-111.8959
40.9992	-111.8852
40.9917	-111.8855
40.9770	-111.8747
40.9637	-111.8721
40.9608	-111.8795
40.9545	-111.8810
40.9460	-111.8743
40.9048	-111.8653
40.8905	-111.8526
40.8661	-111.8568
40.8494	-111.8870

Name: 2351e Wasatch fault, Weber section (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.18000036
Deterministic Magnitude: 7.16

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	7.157e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	7.157e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	7.157e-004	7.110000	7.590000	2.300000	7.350000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.937e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.399e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	2.719e-003	6.500000	7.350000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	7.157e-004	6.720000	7.200000	2.300000	6.960000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	7.157e-004	6.920000	7.400000	2.300000	7.160000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	7.157e-004	7.120000	7.600000	2.300000	7.360000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	1.983e-003	6.500000	6.960000	1.842068	0.000000	0.000000	0.000000	0.000000

Exponential	0.096001	Activity	2.441e-003	6.500000	7.160000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	2.758e-003	6.500000	7.360000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	7.157e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	7.157e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	7.157e-004	7.110000	7.590000	2.300000	7.350000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.937e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.399e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	2.719e-003	6.500000	7.350000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.3333	-111.9614
41.3068	-111.9307
41.2949	-111.9419
41.2772	-111.9491
41.2628	-111.9472
41.2598	-111.9398
41.2501	-111.9383
41.2406	-111.9277
41.2228	-111.9296
41.2148	-111.9242
41.2085	-111.9329
41.1868	-111.9396
41.1796	-111.9370
41.1767	-111.9290
41.1646	-111.9248
41.1509	-111.9069
41.1427	-111.9083
41.1314	-111.8983
41.1037	-111.9108
41.0852	-111.9044
41.0680	-111.9107
41.0556	-111.9039
41.0392	-111.9073
41.0291	-111.8997
41.0045	-111.8959
40.9992	-111.8852
40.9917	-111.8855
40.9770	-111.8747
40.9637	-111.8721
40.9608	-111.8795
40.9545	-111.8810
40.9460	-111.8743
40.9048	-111.8653
40.8905	-111.8526
40.8661	-111.8568
40.8494	-111.8870

------ End Nested Sources for Wasatch fault, Weber section [2351e] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Salt Lake City - Wasatch Fault Source Model
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forSalt Lake City - Wasatch Fault Source Model -------
Name: 2351f Wasatch fault, Salt Lake City section - Partial GR (dip 35)
Region: USGS 2014
Category:Fault

Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.02401200
Deterministic Magnitude: 7.03

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Exponential	0.2	Activity	1.418e-003	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.600000	Activity	1.941e-003	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.200000	Activity	2.302e-003	6.500000	7.230000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.7813	-111.8928
40.7687	-111.8922
40.7560	-111.8641
40.7473	-111.8579
40.7372	-111.8549
40.7307	-111.8606
40.7121	-111.8632
40.6816	-111.8417
40.6727	-111.8335
40.6737	-111.8082
40.6519	-111.8095
40.6308	-111.7997
40.6169	-111.7878
40.6047	-111.7942
40.5901	-111.7895
40.5811	-111.7961
40.5638	-111.7947
40.5490	-111.8014
40.5286	-111.8266
40.5130	-111.8391
40.5006	-111.8367
40.4950	-111.8217

Name: 2351f Wasatch fault, Salt Lake City section - Partial GR (dip 50)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.03601800
Deterministic Magnitude: 7.03

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Exponential	0.2	Activity	1.418e-003	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.600000	Activity	1.941e-003	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.200000	Activity	2.302e-003	6.500000	7.230000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.7813	-111.8928
40.7687	-111.8922
40.7560	-111.8641
40.7473	-111.8579
40.7372	-111.8549
40.7307	-111.8606
40.7121	-111.8632
40.6816	-111.8417
40.6727	-111.8335
40.6737	-111.8082

40.6519	-111.8095
40.6308	-111.7997
40.6169	-111.7878
40.6047	-111.7942
40.5901	-111.7895
40.5811	-111.7961
40.5638	-111.7947
40.5490	-111.8014
40.5286	-111.8266
40.5130	-111.8391
40.5006	-111.8367
40.4950	-111.8217

Name: 2351f Wasatch fault, Salt Lake City section - Partial GR (dip 65)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.01200600
Deterministic Magnitude: 7.03

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Exponential	0.2	Activity	1.418e-003	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.600000	Activity	1.941e-003	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.200000	Activity	2.302e-003	6.500000	7.230000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.7813	-111.8928
40.7687	-111.8922
40.7560	-111.8641
40.7473	-111.8579
40.7372	-111.8549
40.7307	-111.8606
40.7121	-111.8632
40.6816	-111.8417
40.6727	-111.8335
40.6737	-111.8082
40.6519	-111.8095
40.6308	-111.7997
40.6169	-111.7878
40.6047	-111.7942
40.5901	-111.7895
40.5811	-111.7961
40.5638	-111.7947
40.5490	-111.8014
40.5286	-111.8266
40.5130	-111.8391
40.5006	-111.8367
40.4950	-111.8217

Name: 2351f Wasatch Fault SLC Pechmann (dip 35)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.04800000
Deterministic Magnitude: 7.07

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	7.690e-004	6.630000	7.110000	0.000000	6.870000	0.120000	0.000000	0.000000
Normal	0.600000	Activity	7.690e-004	6.830000	7.310000	0.000000	7.070000	0.120000	0.000000	0.000000
Normal	0.200000	Activity	7.690e-004	7.030000	7.510000	0.000000	7.270000	0.120000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.8091	-111.9129
40.7927	-111.9003
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7796	-111.8906
40.7785	-111.8903
40.7777	-111.8902
40.7769	-111.8900
40.7761	-111.8898
40.7755	-111.8897
40.7748	-111.8897
40.7741	-111.8897
40.7734	-111.8898
40.7724	-111.8901
40.7716	-111.8903
40.7710	-111.8906
40.7704	-111.8908
40.7700	-111.8908
40.7689	-111.8913
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463
40.7706	-111.8476
40.7697	-111.8488
40.7691	-111.8498
40.7683	-111.8505
40.7677	-111.8515
40.7670	-111.8527
40.7660	-111.8546
40.7651	-111.8564
40.7642	-111.8577
40.7633	-111.8589
40.7627	-111.8596
40.7618	-111.8609
40.7608	-111.8619
40.7600	-111.8628
40.7588	-111.8634
40.7576	-111.8637
40.7566	-111.8636
40.7557	-111.8634
40.7547	-111.8629
40.7539	-111.8623
40.7530	-111.8618
40.7521	-111.8608
40.7514	-111.8601
40.7507	-111.8595
40.7501	-111.8590
40.7477	-111.8574
40.7456	-111.8569
40.7443	-111.8564
40.7430	-111.8559
40.7414	-111.8548
40.7396	-111.8546
40.7373	-111.8546
40.7354	-111.8556
40.7339	-111.8574
40.7326	-111.8587
40.7318	-111.8598
40.7302	-111.8603
40.7287	-111.8598
40.7268	-111.8598
40.7250	-111.8601
40.7232	-111.8601
40.7211	-111.8601
40.7189	-111.8602
40.7172	-111.8611
40.7156	-111.8619
40.7142	-111.8624
40.7129	-111.8624
40.7113	-111.8621
40.7103	-111.8614
40.7095	-111.8607
40.7082	-111.8595
40.7072	-111.8584
40.7060	-111.8574
40.7046	-111.8564
40.7035	-111.8555
40.7022	-111.8538
40.7007	-111.8522
40.6986	-111.8512
40.6966	-111.8509
40.6945	-111.8488

40.6927 -111.8475
40.6908 -111.8457
40.6890 -111.8452
40.6864 -111.8441
40.6864 -111.8431
40.6833 -111.8418
40.6814 -111.8407
40.6799 -111.8394
40.6788 -111.8381
40.6778 -111.8368
40.6770 -111.8360
40.6754 -111.8353
40.6739 -111.8342
40.6726 -111.8315
40.6718 -111.8291
40.6710 -111.8265
40.6705 -111.8241
40.6697 -111.8218
40.6692 -111.8200
40.6687 -111.8179
40.6682 -111.8158
40.6676 -111.8137
40.6671 -111.8119
40.6666 -111.8103
40.6661 -111.8093
40.6658 -111.8077
40.6658 -111.8072
40.6635 -111.8067
40.6619 -111.8064
40.6606 -111.8064
40.6588 -111.8067
40.6572 -111.8072
40.6554 -111.8075
40.6543 -111.8082
40.6538 -111.8085
40.6523 -111.8085
40.6504 -111.8085
40.6486 -111.8069
40.6478 -111.8059
40.6473 -111.8048
40.6455 -111.8035
40.6436 -111.8022
40.6413 -111.8007
40.6397 -111.7994
40.6387 -111.7986
40.6358 -111.7994
40.6340 -111.7996
40.6319 -111.7991
40.6298 -111.7978
40.6285 -111.7965
40.6267 -111.7954
40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7908
40.6191 -111.7894
40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6082 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
40.6006 -111.7936
40.5990 -111.7936
40.5977 -111.7928
40.5951 -111.7921
40.5938 -111.7910
40.5928 -111.7900
40.5912 -111.7892
40.5894 -111.7889
40.5873 -111.7902
40.5857 -111.7918
40.5834 -111.7934
40.5821 -111.7949
40.5791 -111.7953
40.5766 -111.7953
40.5750 -111.7956
40.5730 -111.7956
40.5712 -111.7959
40.5696 -111.7959
40.5681 -111.7951
40.5660 -111.7943
40.5642 -111.7943
40.5624 -111.7948
40.5609 -111.7977
40.5593 -111.7982

40.5578	-111.7982
40.5562	-111.7994
40.5544	-111.7994
40.5526	-111.7997
40.5511	-111.8007
40.5482	-111.8020
40.5467	-111.8038
40.5446	-111.8061
40.5433	-111.8077
40.5423	-111.8092
40.5413	-111.8108
40.5390	-111.8123
40.5372	-111.8136
40.5354	-111.8149
40.5328	-111.8190
40.5310	-111.8211
40.5300	-111.8242
40.5279	-111.8265
40.5248	-111.8291
40.5225	-111.8316
40.5207	-111.8337
40.5184	-111.8355
40.5166	-111.8365
40.5143	-111.8378
40.5122	-111.8391
40.5094	-111.8388
40.5071	-111.8388
40.5047	-111.8381
40.5027	-111.8373
40.5011	-111.8363
40.5001	-111.8352
40.4985	-111.8336

Name: 2351f Wasatch Fault SLC Pechmann (dip 50)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.14400000
Deterministic Magnitude: 7.07

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	7.690e-004	6.630000	7.110000	0.000000	6.870000	0.120000	0.000000	0.000000
Normal	0.600000	Activity	7.690e-004	6.830000	7.310000	0.000000	7.070000	0.120000	0.000000	0.000000
Normal	0.200000	Activity	7.690e-004	7.030000	7.510000	0.000000	7.270000	0.120000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.8091	-111.9129
40.7927	-111.9003
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7796	-111.8906
40.7785	-111.8903
40.7777	-111.8902
40.7769	-111.8900
40.7761	-111.8898
40.7755	-111.8897
40.7748	-111.8897
40.7741	-111.8897
40.7734	-111.8898
40.7724	-111.8901
40.7716	-111.8903
40.7710	-111.8906
40.7704	-111.8908
40.7700	-111.8908
40.7689	-111.8913
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463
40.7706	-111.8476
40.7697	-111.8488
40.7691	-111.8498

40.7683 -111.8505
40.7677 -111.8515
40.7670 -111.8527
40.7660 -111.8546
40.7651 -111.8564
40.7642 -111.8577
40.7633 -111.8589
40.7627 -111.8596
40.7618 -111.8609
40.7608 -111.8619
40.7600 -111.8628
40.7588 -111.8634
40.7576 -111.8637
40.7566 -111.8636
40.7557 -111.8634
40.7547 -111.8629
40.7539 -111.8623
40.7530 -111.8618
40.7521 -111.8608
40.7514 -111.8601
40.7507 -111.8595
40.7501 -111.8590
40.7477 -111.8574
40.7456 -111.8569
40.7443 -111.8564
40.7430 -111.8559
40.7414 -111.8548
40.7396 -111.8546
40.7373 -111.8546
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40.7318 -111.8598
40.7302 -111.8603
40.7287 -111.8598
40.7268 -111.8598
40.7250 -111.8601
40.7232 -111.8601
40.7211 -111.8601
40.7189 -111.8602
40.7172 -111.8611
40.7156 -111.8619
40.7142 -111.8624
40.7129 -111.8624
40.7113 -111.8621
40.7103 -111.8614
40.7095 -111.8607
40.7082 -111.8595
40.7072 -111.8584
40.7060 -111.8574
40.7046 -111.8564
40.7035 -111.8555
40.7022 -111.8538
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40.6986 -111.8512
40.6966 -111.8509
40.6945 -111.8488
40.6927 -111.8475
40.6908 -111.8457
40.6890 -111.8452
40.6864 -111.8441
40.6864 -111.8431
40.6833 -111.8418
40.6814 -111.8407
40.6799 -111.8394
40.6788 -111.8381
40.6778 -111.8368
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40.6754 -111.8353
40.6739 -111.8342
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40.6710 -111.8265
40.6705 -111.8241
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40.6658 -111.8072
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40.6619 -111.8064
40.6606 -111.8064
40.6588 -111.8067
40.6572 -111.8072
40.6554 -111.8075

40.6543 -111.8082
40.6538 -111.8085
40.6523 -111.8085
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40.6455 -111.8035
40.6436 -111.8022
40.6413 -111.8007
40.6397 -111.7994
40.6387 -111.7986
40.6358 -111.7994
40.6340 -111.7996
40.6319 -111.7991
40.6298 -111.7978
40.6285 -111.7965
40.6267 -111.7954
40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7908
40.6191 -111.7894
40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6082 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
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40.5990 -111.7936
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40.5938 -111.7910
40.5928 -111.7900
40.5912 -111.7892
40.5894 -111.7889
40.5873 -111.7902
40.5857 -111.7918
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40.5750 -111.7956
40.5730 -111.7956
40.5712 -111.7959
40.5696 -111.7959
40.5681 -111.7951
40.5660 -111.7943
40.5642 -111.7943
40.5624 -111.7948
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40.5578 -111.7982
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40.5423 -111.8092
40.5413 -111.8108
40.5390 -111.8123
40.5372 -111.8136
40.5354 -111.8149
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40.5310 -111.8211
40.5300 -111.8242
40.5279 -111.8265
40.5248 -111.8291
40.5225 -111.8316
40.5207 -111.8337
40.5184 -111.8355
40.5166 -111.8365
40.5143 -111.8378
40.5122 -111.8391
40.5094 -111.8388
40.5071 -111.8388
40.5047 -111.8381
40.5027 -111.8373
40.5011 -111.8363
40.5001 -111.8352
40.4985 -111.8336

Name: 2351f Wasatch Fault SLC Pechmann (dip 65)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.04800000
Deterministic Magnitude: 7.07

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	7.690e-004	6.630000	7.110000	0.000000	6.870000	0.120000	0.000000	0.000000
Normal	0.600000	Activity	7.690e-004	6.830000	7.310000	0.000000	7.070000	0.120000	0.000000	0.000000
Normal	0.200000	Activity	7.690e-004	7.030000	7.510000	0.000000	7.270000	0.120000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.8091	-111.9129
40.7927	-111.9003
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7796	-111.8906
40.7785	-111.8903
40.7777	-111.8902
40.7769	-111.8900
40.7761	-111.8898
40.7755	-111.8897
40.7748	-111.8897
40.7741	-111.8897
40.7734	-111.8898
40.7724	-111.8901
40.7716	-111.8903
40.7710	-111.8906
40.7704	-111.8908
40.7700	-111.8908
40.7689	-111.8913
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463
40.7706	-111.8476
40.7697	-111.8488
40.7691	-111.8498
40.7683	-111.8505
40.7677	-111.8515
40.7670	-111.8527
40.7660	-111.8546
40.7651	-111.8564
40.7642	-111.8577
40.7633	-111.8589
40.7627	-111.8596
40.7618	-111.8609
40.7608	-111.8619
40.7600	-111.8628
40.7588	-111.8634
40.7576	-111.8637
40.7566	-111.8636
40.7557	-111.8634
40.7547	-111.8629
40.7539	-111.8623
40.7530	-111.8618
40.7521	-111.8608
40.7514	-111.8601
40.7507	-111.8595
40.7501	-111.8590
40.7477	-111.8574
40.7456	-111.8569
40.7443	-111.8564
40.7430	-111.8559
40.7414	-111.8548
40.7396	-111.8546
40.7373	-111.8546
40.7354	-111.8556
40.7339	-111.8574
40.7326	-111.8587
40.7318	-111.8598

40.7302 -111.8603
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40.7211 -111.8601
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40.7142 -111.8624
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40.7113 -111.8621
40.7103 -111.8614
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40.6739 -111.8342
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40.6710 -111.8265
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40.6697 -111.8218
40.6692 -111.8200
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40.6543 -111.8082
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40.6523 -111.8085
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40.6486 -111.8069
40.6478 -111.8059
40.6473 -111.8048
40.6455 -111.8035
40.6436 -111.8022
40.6413 -111.8007
40.6397 -111.7994
40.6387 -111.7986
40.6358 -111.7994
40.6340 -111.7996
40.6319 -111.7991
40.6298 -111.7978
40.6285 -111.7965
40.6267 -111.7954
40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7908
40.6191 -111.7894
40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6082 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931

40.6006	-111.7936
40.5990	-111.7936
40.5977	-111.7928
40.5951	-111.7921
40.5938	-111.7910
40.5928	-111.7900
40.5912	-111.7892
40.5894	-111.7889
40.5873	-111.7902
40.5857	-111.7918
40.5834	-111.7934
40.5821	-111.7949
40.5791	-111.7953
40.5766	-111.7953
40.5750	-111.7956
40.5730	-111.7956
40.5712	-111.7959
40.5696	-111.7959
40.5681	-111.7951
40.5660	-111.7943
40.5642	-111.7943
40.5624	-111.7948
40.5609	-111.7977
40.5593	-111.7982
40.5578	-111.7982
40.5562	-111.7994
40.5544	-111.7994
40.5526	-111.7997
40.5511	-111.8007
40.5482	-111.8020
40.5467	-111.8038
40.5446	-111.8061
40.5433	-111.8077
40.5423	-111.8092
40.5413	-111.8108
40.5390	-111.8123
40.5372	-111.8136
40.5354	-111.8149
40.5328	-111.8190
40.5310	-111.8211
40.5300	-111.8242
40.5279	-111.8265
40.5248	-111.8291
40.5225	-111.8316
40.5207	-111.8337
40.5184	-111.8355
40.5166	-111.8365
40.5143	-111.8378
40.5122	-111.8391
40.5094	-111.8388
40.5071	-111.8388
40.5047	-111.8381
40.5027	-111.8373
40.5011	-111.8363
40.5001	-111.8352
40.4985	-111.8336

Name: 2351f_alt3 Wasatch Fault SLC through Virginia St flt - Partial GR (dip 35)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.01598400
Deterministic Magnitude: 7.05

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Exponential	0.2	Activity	2.318e-003	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.600000	Activity	3.108e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.200000	Activity	3.653e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.8091	-111.9129
40.7927	-111.9003
40.7813	-111.8914

40.7807 -111.8911
40.7802 -111.8908
40.7750 -111.8413
40.7739 -111.8427
40.7727 -111.8442
40.7715 -111.8463
40.7706 -111.8476
40.7697 -111.8488
40.7691 -111.8498
40.7683 -111.8505
40.7677 -111.8515
40.7670 -111.8527
40.7660 -111.8546
40.7651 -111.8564
40.7642 -111.8577
40.7633 -111.8589
40.7627 -111.8596
40.7618 -111.8609
40.7608 -111.8619
40.7600 -111.8628
40.7588 -111.8634
40.7576 -111.8637
40.7566 -111.8636
40.7557 -111.8634
40.7547 -111.8629
40.7539 -111.8623
40.7530 -111.8618
40.7521 -111.8608
40.7514 -111.8601
40.7507 -111.8595
40.7501 -111.8590
40.7477 -111.8574
40.7456 -111.8569
40.7443 -111.8564
40.7430 -111.8559
40.7414 -111.8548
40.7396 -111.8546
40.7373 -111.8546
40.7354 -111.8556
40.7339 -111.8574
40.7326 -111.8587
40.7318 -111.8598
40.7302 -111.8603
40.7287 -111.8598
40.7268 -111.8598
40.7250 -111.8601
40.7232 -111.8601
40.7211 -111.8601
40.7189 -111.8602
40.7172 -111.8611
40.7156 -111.8619
40.7142 -111.8624
40.7129 -111.8624
40.7113 -111.8621
40.7103 -111.8614
40.7095 -111.8607
40.7082 -111.8595
40.7072 -111.8584
40.7060 -111.8574
40.7046 -111.8564
40.7035 -111.8555
40.7022 -111.8538
40.7007 -111.8522
40.6986 -111.8512
40.6966 -111.8509
40.6945 -111.8488
40.6927 -111.8475
40.6908 -111.8457
40.6890 -111.8452
40.6864 -111.8441
40.6864 -111.8431
40.6833 -111.8418
40.6814 -111.8407
40.6799 -111.8394
40.6788 -111.8381
40.6778 -111.8368
40.6770 -111.8360
40.6754 -111.8353
40.6739 -111.8342
40.6726 -111.8315
40.6718 -111.8291
40.6710 -111.8265
40.6705 -111.8241
40.6697 -111.8218
40.6692 -111.8200
40.6687 -111.8179
40.6682 -111.8158
40.6676 -111.8137
40.6671 -111.8119
40.6666 -111.8103

40.6661 -111.8093
40.6658 -111.8077
40.6658 -111.8072
40.6635 -111.8067
40.6619 -111.8064
40.6606 -111.8064
40.6588 -111.8067
40.6572 -111.8072
40.6554 -111.8075
40.6543 -111.8082
40.6538 -111.8085
40.6523 -111.8085
40.6504 -111.8085
40.6486 -111.8069
40.6478 -111.8059
40.6473 -111.8048
40.6455 -111.8035
40.6436 -111.8022
40.6413 -111.8007
40.6397 -111.7994
40.6387 -111.7986
40.6358 -111.7994
40.6340 -111.7996
40.6319 -111.7991
40.6298 -111.7978
40.6285 -111.7965
40.6267 -111.7954
40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7908
40.6191 -111.7894
40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6082 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
40.6006 -111.7936
40.5990 -111.7936
40.5977 -111.7928
40.5951 -111.7921
40.5938 -111.7910
40.5928 -111.7900
40.5912 -111.7892
40.5894 -111.7889
40.5873 -111.7902
40.5857 -111.7918
40.5834 -111.7934
40.5821 -111.7949
40.5791 -111.7953
40.5766 -111.7953
40.5750 -111.7956
40.5730 -111.7956
40.5712 -111.7959
40.5696 -111.7959
40.5681 -111.7951
40.5660 -111.7943
40.5642 -111.7943
40.5624 -111.7948
40.5609 -111.7977
40.5593 -111.7982
40.5578 -111.7982
40.5562 -111.7994
40.5544 -111.7994
40.5526 -111.7997
40.5511 -111.8007
40.5482 -111.8020
40.5467 -111.8038
40.5446 -111.8061
40.5433 -111.8077
40.5423 -111.8092
40.5413 -111.8108
40.5390 -111.8123
40.5372 -111.8136
40.5354 -111.8149
40.5328 -111.8190
40.5310 -111.8211
40.5300 -111.8242
40.5279 -111.8265
40.5248 -111.8291
40.5225 -111.8316
40.5207 -111.8337
40.5184 -111.8355
40.5166 -111.8365
40.5143 -111.8378

40.5122	-111.8391
40.5094	-111.8388
40.5071	-111.8388
40.5047	-111.8381
40.5027	-111.8373
40.5011	-111.8363
40.5001	-111.8352
40.4985	-111.8336

Name: 2351f_alt3 Wasatch Fault SLC through Virginia St flt - Partial GR (dip 50)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.04795200
Deterministic Magnitude: 7.05

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Exponential	0.2	Activity	2.318e-003	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.600000	Activity	3.108e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.200000	Activity	3.653e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.8091	-111.9129
40.7927	-111.9003
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463
40.7706	-111.8476
40.7697	-111.8488
40.7691	-111.8498
40.7683	-111.8505
40.7677	-111.8515
40.7670	-111.8527
40.7660	-111.8546
40.7651	-111.8564
40.7642	-111.8577
40.7633	-111.8589
40.7627	-111.8596
40.7618	-111.8609
40.7608	-111.8619
40.7600	-111.8628
40.7588	-111.8634
40.7576	-111.8637
40.7566	-111.8636
40.7557	-111.8634
40.7547	-111.8629
40.7539	-111.8623
40.7530	-111.8618
40.7521	-111.8608
40.7514	-111.8601
40.7507	-111.8595
40.7501	-111.8590
40.7477	-111.8574
40.7456	-111.8569
40.7443	-111.8564
40.7430	-111.8559
40.7414	-111.8548
40.7396	-111.8546
40.7373	-111.8546
40.7354	-111.8556
40.7339	-111.8574
40.7326	-111.8587
40.7318	-111.8598
40.7302	-111.8603
40.7287	-111.8598
40.7268	-111.8598
40.7250	-111.8601
40.7232	-111.8601
40.7211	-111.8601

40.7189 -111.8602
40.7172 -111.8611
40.7156 -111.8619
40.7142 -111.8624
40.7129 -111.8624
40.7113 -111.8621
40.7103 -111.8614
40.7095 -111.8607
40.7082 -111.8595
40.7072 -111.8584
40.7060 -111.8574
40.7046 -111.8564
40.7035 -111.8555
40.7022 -111.8538
40.7007 -111.8522
40.6986 -111.8512
40.6966 -111.8509
40.6945 -111.8488
40.6927 -111.8475
40.6908 -111.8457
40.6890 -111.8452
40.6864 -111.8441
40.6864 -111.8431
40.6833 -111.8418
40.6814 -111.8407
40.6799 -111.8394
40.6788 -111.8381
40.6778 -111.8368
40.6770 -111.8360
40.6754 -111.8353
40.6739 -111.8342
40.6726 -111.8315
40.6718 -111.8291
40.6710 -111.8265
40.6705 -111.8241
40.6697 -111.8218
40.6692 -111.8200
40.6687 -111.8179
40.6682 -111.8158
40.6676 -111.8137
40.6671 -111.8119
40.6666 -111.8103
40.6661 -111.8093
40.6658 -111.8077
40.6658 -111.8072
40.6635 -111.8067
40.6619 -111.8064
40.6606 -111.8064
40.6588 -111.8067
40.6572 -111.8072
40.6554 -111.8075
40.6543 -111.8082
40.6538 -111.8085
40.6523 -111.8085
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40.6455 -111.8035
40.6436 -111.8022
40.6413 -111.8007
40.6397 -111.7994
40.6387 -111.7986
40.6358 -111.7994
40.6340 -111.7996
40.6319 -111.7991
40.6298 -111.7978
40.6285 -111.7965
40.6267 -111.7954
40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7908
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40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6082 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
40.6006 -111.7936
40.5990 -111.7936
40.5977 -111.7928
40.5951 -111.7921
40.5938 -111.7910
40.5928 -111.7900

Latitude	Longitude
40.5912	-111.7892
40.5894	-111.7889
40.5873	-111.7902
40.5857	-111.7918
40.5834	-111.7934
40.5821	-111.7949
40.5791	-111.7953
40.5766	-111.7953
40.5750	-111.7956
40.5730	-111.7956
40.5712	-111.7959
40.5696	-111.7959
40.5681	-111.7951
40.5660	-111.7943
40.5642	-111.7943
40.5624	-111.7948
40.5609	-111.7977
40.5593	-111.7982
40.5578	-111.7982
40.5562	-111.7994
40.5544	-111.7994
40.5526	-111.7997
40.5511	-111.8007
40.5482	-111.8020
40.5467	-111.8038
40.5446	-111.8061
40.5433	-111.8077
40.5423	-111.8092
40.5413	-111.8108
40.5390	-111.8123
40.5372	-111.8136
40.5354	-111.8149
40.5328	-111.8190
40.5310	-111.8211
40.5300	-111.8242
40.5279	-111.8265
40.5248	-111.8291
40.5225	-111.8316
40.5207	-111.8337
40.5184	-111.8355
40.5166	-111.8365
40.5143	-111.8378
40.5122	-111.8391
40.5094	-111.8388
40.5071	-111.8388
40.5047	-111.8381
40.5027	-111.8373
40.5011	-111.8363
40.5001	-111.8352
40.4985	-111.8336

Name: 2351f_alt3 Wasatch Fault SLC through Virginia St flt - Partial GR (dip 65)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.01598400
Deterministic Magnitude: 7.05

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Exponential	0.2	Activity	2.318e-003	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.600000	Activity	3.108e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.200000	Activity	3.653e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.8091	-111.9129
40.7927	-111.9003
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463

40.7706 -111.8476
40.7697 -111.8488
40.7691 -111.8498
40.7683 -111.8505
40.7677 -111.8515
40.7670 -111.8527
40.7660 -111.8546
40.7651 -111.8564
40.7642 -111.8577
40.7633 -111.8589
40.7627 -111.8596
40.7618 -111.8609
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40.7600 -111.8628
40.7588 -111.8634
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40.7547 -111.8629
40.7539 -111.8623
40.7530 -111.8618
40.7521 -111.8608
40.7514 -111.8601
40.7507 -111.8595
40.7501 -111.8590
40.7477 -111.8574
40.7456 -111.8569
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40.7430 -111.8559
40.7414 -111.8548
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40.7326 -111.8587
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40.7211 -111.8601
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40.6705 -111.8241
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40.6144 -111.7876
40.6121 -111.7889
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40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
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40.5990 -111.7936
40.5977 -111.7928
40.5951 -111.7921
40.5938 -111.7910
40.5928 -111.7900
40.5912 -111.7892
40.5894 -111.7889
40.5873 -111.7902
40.5857 -111.7918
40.5834 -111.7934
40.5821 -111.7949
40.5791 -111.7953
40.5766 -111.7953
40.5750 -111.7956
40.5730 -111.7956
40.5712 -111.7959
40.5696 -111.7959
40.5681 -111.7951
40.5660 -111.7943
40.5642 -111.7943
40.5624 -111.7948
40.5609 -111.7977
40.5593 -111.7982
40.5578 -111.7982
40.5562 -111.7994
40.5544 -111.7994
40.5526 -111.7997
40.5511 -111.8007
40.5482 -111.8020
40.5467 -111.8038
40.5446 -111.8061
40.5433 -111.8077
40.5423 -111.8092
40.5413 -111.8108
40.5390 -111.8123
40.5372 -111.8136
40.5354 -111.8149
40.5328 -111.8190
40.5310 -111.8211
40.5300 -111.8242
40.5279 -111.8265
40.5248 -111.8291
40.5225 -111.8316
40.5207 -111.8337
40.5184 -111.8355
40.5166 -111.8365
40.5143 -111.8378
40.5122 -111.8391
40.5094 -111.8388
40.5071 -111.8388
40.5047 -111.8381
40.5027 -111.8373
40.5011 -111.8363

40.5001	-111.8352
40.4985	-111.8336

Name: SLC Cluster - Group1
Region: USGS 2014
Category:Clustered Seismic Source
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.24
Time Independent Cluster Rate (events/year): 0.000769
------ Start Nested Sources forSLC Cluster - Group1 -------
Name: g1 Wasatch fault, Salt Lake City Warm Springs-section.M from SRL (dip 50)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.231

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Characteristic	0.2	Activity	7.690e-004	6.029000	6.031000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.600000	Activity	7.690e-004	6.229000	6.231000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.200000	Activity	7.690e-004	6.429000	6.431000	2.300000	0.000000	0.000000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8446	-111.8955
40.8420	-111.8977
40.8405	-111.8999
40.8393	-111.9018
40.8384	-111.9035
40.8362	-111.9059
40.8355	-111.9059
40.8343	-111.9081
40.8330	-111.9100
40.8318	-111.9122
40.8297	-111.9129
40.8280	-111.9134
40.8258	-111.9141
40.8239	-111.9141
40.8222	-111.9144
40.8202	-111.9149
40.8185	-111.9156
40.8171	-111.9161
40.8159	-111.9173
40.8140	-111.9163
40.8125	-111.9149
40.8108	-111.9136
40.8091	-111.9129
40.8074	-111.9120
40.8055	-111.9107
40.8038	-111.9093
40.8021	-111.9081
40.8004	-111.9066
40.7997	-111.9057
40.7990	-111.9045
40.7982	-111.9035
40.7973	-111.9025
40.7963	-111.9018
40.7949	-111.9016
40.7933	-111.9011
40.7927	-111.9003
40.7922	-111.8997
40.7917	-111.8992
40.7911	-111.8988
40.7905	-111.8983
40.7897	-111.8981
40.7891	-111.8980
40.7887	-111.8980
40.7881	-111.8978
40.7877	-111.8974
40.7874	-111.8970
40.7868	-111.8965
40.7862	-111.8961
40.7853	-111.8956
40.7847	-111.8950
40.7841	-111.8943
40.7836	-111.8937
40.7831	-111.8932
40.7828	-111.8926

40.7823	-111.8923
40.7819	-111.8918
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7796	-111.8906
40.7785	-111.8903
40.7777	-111.8902
40.7769	-111.8900
40.7761	-111.8898
40.7755	-111.8897
40.7748	-111.8897
40.7741	-111.8897
40.7734	-111.8898
40.7723	-111.8900
40.7716	-111.8903
40.7710	-111.8906
40.7704	-111.8908
40.7700	-111.8908
40.7689	-111.8913

Name: g1 Wasatch fault, Salt Lake City tear flt (dip 90)
Region: USGS 2014
Category:Fault
Fault Mechanism: Strike Slip
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 4.401

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	90	1	1.001	6

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Characteristic	0.2	Activity	7.690e-004	4.199000	4.201000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.600000	Activity	7.690e-004	4.399000	4.401000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.200000	Activity	7.690e-004	4.599000	4.601000	2.300000	0.000000	0.000000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.7689	-111.8913
40.7691	-111.8890
40.7694	-111.8867
40.7697	-111.8847
40.7700	-111.8822
40.7703	-111.8797
40.7705	-111.8778
40.7708	-111.8758
40.7710	-111.8740
40.7713	-111.8713
40.7716	-111.8692
40.7718	-111.8670
40.7722	-111.8643
40.7725	-111.8618
40.7729	-111.8586
40.7732	-111.8559
40.7735	-111.8533
40.7739	-111.8504
40.7741	-111.8482
40.7744	-111.8454
40.7746	-111.8443
40.7747	-111.8430
40.7750	-111.8413

Name: g1 Wasatch fault, Salt Lake City East Bench&Cottonwood sections (dip 50)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.901

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Characteristic	0.2	Activity	7.690e-004	6.699000	6.701000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.600000	Activity	7.690e-004	6.899000	6.901000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.200000	Activity	7.690e-004	7.099000	7.101000	2.300000	0.000000	0.000000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463
40.7705	-111.8476
40.7697	-111.8488
40.7690	-111.8498
40.7683	-111.8505
40.7677	-111.8515
40.7670	-111.8527
40.7660	-111.8546
40.7651	-111.8564
40.7642	-111.8577
40.7633	-111.8589
40.7627	-111.8596
40.7618	-111.8609
40.7608	-111.8619
40.7600	-111.8627
40.7588	-111.8634
40.7576	-111.8637
40.7566	-111.8636
40.7557	-111.8634
40.7547	-111.8629
40.7539	-111.8622
40.7530	-111.8617
40.7521	-111.8607
40.7514	-111.8601
40.7507	-111.8595
40.7501	-111.8590
40.7477	-111.8574
40.7456	-111.8569
40.7443	-111.8564
40.7430	-111.8559
40.7414	-111.8548
40.7396	-111.8546
40.7373	-111.8546
40.7354	-111.8556
40.7339	-111.8574
40.7326	-111.8587
40.7318	-111.8598
40.7302	-111.8603
40.7287	-111.8598
40.7268	-111.8598
40.7250	-111.8600
40.7232	-111.8600
40.7211	-111.8600
40.7189	-111.8602
40.7172	-111.8611
40.7156	-111.8619
40.7142	-111.8624
40.7129	-111.8624
40.7113	-111.8621
40.7103	-111.8614
40.7095	-111.8607
40.7082	-111.8595
40.7072	-111.8584
40.7060	-111.8574
40.7046	-111.8564
40.7035	-111.8555
40.7022	-111.8538
40.7007	-111.8522
40.6986	-111.8512
40.6966	-111.8509
40.6945	-111.8488
40.6926	-111.8475
40.6908	-111.8457
40.6890	-111.8452
40.6864	-111.8441
40.6864	-111.8431
40.6833	-111.8418
40.6814	-111.8407
40.6799	-111.8394
40.6788	-111.8381
40.6778	-111.8368
40.6770	-111.8360
40.6754	-111.8353
40.6739	-111.8342
40.6726	-111.8315
40.6718	-111.8291
40.6710	-111.8265
40.6705	-111.8241
40.6697	-111.8218
40.6692	-111.8200

40.6687 -111.8179
40.6682 -111.8158
40.6676 -111.8137
40.6671 -111.8119
40.6666 -111.8103
40.6661 -111.8093
40.6658 -111.8077
40.6658 -111.8072
40.6635 -111.8067
40.6619 -111.8064
40.6606 -111.8064
40.6588 -111.8067
40.6572 -111.8072
40.6554 -111.8074
40.6543 -111.8082
40.6538 -111.8085
40.6522 -111.8085
40.6504 -111.8085
40.6486 -111.8069
40.6478 -111.8059
40.6473 -111.8048
40.6455 -111.8035
40.6436 -111.8022
40.6413 -111.8007
40.6397 -111.7994
40.6387 -111.7986
40.6358 -111.7994
40.6340 -111.7996
40.6319 -111.7991
40.6298 -111.7978
40.6285 -111.7965
40.6267 -111.7954
40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7907
40.6191 -111.7894
40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6081 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
40.6006 -111.7936
40.5990 -111.7936
40.5977 -111.7928
40.5951 -111.7921
40.5938 -111.7910
40.5928 -111.7900
40.5912 -111.7892
40.5894 -111.7889
40.5873 -111.7902
40.5857 -111.7918
40.5834 -111.7934
40.5821 -111.7949
40.5791 -111.7953
40.5766 -111.7953
40.5750 -111.7956
40.5730 -111.7956
40.5712 -111.7959
40.5696 -111.7959
40.5681 -111.7951
40.5660 -111.7943
40.5642 -111.7943
40.5624 -111.7948
40.5609 -111.7977
40.5593 -111.7982
40.5578 -111.7982
40.5562 -111.7995
40.5544 -111.7995
40.5526 -111.7997
40.5511 -111.8007
40.5482 -111.8020
40.5467 -111.8038
40.5446 -111.8061
40.5433 -111.8077
40.5423 -111.8092
40.5413 -111.8108
40.5390 -111.8123
40.5372 -111.8136
40.5354 -111.8149
40.5328 -111.8190
40.5310 -111.8211
40.5300 -111.8242
40.5279 -111.8265
40.5248 -111.8291

40.5225	-111.8316
40.5207	-111.8337
40.5184	-111.8355
40.5166	-111.8365
40.5143	-111.8378
40.5122	-111.8391
40.5094	-111.8388
40.5071	-111.8388
40.5047	-111.8381
40.5027	-111.8373
40.5011	-111.8363
40.5001	-111.8352
40.4985	-111.8336

------ End Nested Sources for SLC Cluster - Group1 -------

Name: SLC Cluster - Group2
Region: USGS 2014
Category:Clustered Seismic Source
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.24
Time Independent Cluster Rate (events/year): 0.000769
------ Start Nested Sources forSLC Cluster - Group2 -------
Name: g2 Wasatch fault, Salt Lake City Warm Springs-section.M from SRL (dip 35)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.231

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Characteristic	0.2	Activity	7.690e-004	6.029000	6.031000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.600000	Activity	7.690e-004	6.229000	6.231000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.200000	Activity	7.690e-004	6.429000	6.431000	2.300000	0.000000	0.000000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8446	-111.8955
40.8420	-111.8977
40.8405	-111.8999
40.8393	-111.9018
40.8384	-111.9035
40.8362	-111.9059
40.8355	-111.9059
40.8343	-111.9081
40.8330	-111.9100
40.8318	-111.9122
40.8297	-111.9129
40.8280	-111.9134
40.8258	-111.9141
40.8239	-111.9141
40.8222	-111.9144
40.8202	-111.9149
40.8185	-111.9156
40.8171	-111.9161
40.8159	-111.9173
40.8140	-111.9163
40.8125	-111.9149
40.8108	-111.9136
40.8091	-111.9129
40.8074	-111.9120
40.8055	-111.9107
40.8038	-111.9093
40.8021	-111.9081
40.8004	-111.9066
40.7997	-111.9057
40.7990	-111.9045
40.7982	-111.9035
40.7973	-111.9025
40.7963	-111.9018
40.7949	-111.9016
40.7933	-111.9011
40.7927	-111.9003
40.7922	-111.8997
40.7917	-111.8992
40.7911	-111.8988
40.7905	-111.8983
40.7897	-111.8981

40.7891	-111.8980
40.7887	-111.8980
40.7881	-111.8978
40.7877	-111.8974
40.7874	-111.8970
40.7868	-111.8965
40.7862	-111.8961
40.7853	-111.8956
40.7847	-111.8950
40.7841	-111.8943
40.7836	-111.8937
40.7831	-111.8932
40.7828	-111.8926
40.7823	-111.8923
40.7819	-111.8918
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7796	-111.8906
40.7785	-111.8903
40.7777	-111.8902
40.7769	-111.8900
40.7761	-111.8898
40.7755	-111.8897
40.7748	-111.8897
40.7741	-111.8897
40.7734	-111.8898
40.7723	-111.8900
40.7716	-111.8903
40.7710	-111.8906
40.7704	-111.8908
40.7700	-111.8908
40.7689	-111.8913

Name: g2 Wasatch fault, Salt Lake City tear flt (dip 90)
Region: USGS 2014
Category:Fault
Fault Mechanism: Strike Slip
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 4.401

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	90	1	1.001	6

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Characteristic	0.2	Activity	7.690e-004	4.199000	4.201000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.600000	Activity	7.690e-004	4.399000	4.401000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.200000	Activity	7.690e-004	4.599000	4.601000	2.300000	0.000000	0.000000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.7689	-111.8913
40.7691	-111.8890
40.7694	-111.8867
40.7697	-111.8847
40.7700	-111.8822
40.7703	-111.8797
40.7705	-111.8778
40.7708	-111.8758
40.7710	-111.8740
40.7713	-111.8713
40.7716	-111.8692
40.7718	-111.8670
40.7722	-111.8643
40.7725	-111.8618
40.7729	-111.8586
40.7732	-111.8559
40.7735	-111.8533
40.7739	-111.8504
40.7741	-111.8482
40.7744	-111.8454
40.7746	-111.8443
40.7747	-111.8430
40.7750	-111.8413

Name: g2 Wasatch fault, Salt Lake City East Bench&Cottonwood sections (dip 35)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000

Deterministic Magnitude: 6.901

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Characteristic	0.2	Activity	7.690e-004	6.699000	6.701000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.600000	Activity	7.690e-004	6.899000	6.901000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.200000	Activity	7.690e-004	7.099000	7.101000	2.300000	0.000000	0.000000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463
40.7705	-111.8476
40.7697	-111.8488
40.7690	-111.8498
40.7683	-111.8505
40.7677	-111.8515
40.7670	-111.8527
40.7660	-111.8546
40.7651	-111.8564
40.7642	-111.8577
40.7633	-111.8589
40.7627	-111.8596
40.7618	-111.8609
40.7608	-111.8619
40.7600	-111.8627
40.7588	-111.8634
40.7576	-111.8637
40.7566	-111.8636
40.7557	-111.8634
40.7547	-111.8629
40.7539	-111.8622
40.7530	-111.8617
40.7521	-111.8607
40.7514	-111.8601
40.7507	-111.8595
40.7501	-111.8590
40.7477	-111.8574
40.7456	-111.8569
40.7443	-111.8564
40.7430	-111.8559
40.7414	-111.8548
40.7396	-111.8546
40.7373	-111.8546
40.7354	-111.8556
40.7339	-111.8574
40.7326	-111.8587
40.7318	-111.8598
40.7302	-111.8603
40.7287	-111.8598
40.7268	-111.8598
40.7250	-111.8600
40.7232	-111.8600
40.7211	-111.8600
40.7189	-111.8602
40.7172	-111.8611
40.7156	-111.8619
40.7142	-111.8624
40.7129	-111.8624
40.7113	-111.8621
40.7103	-111.8614
40.7095	-111.8607
40.7082	-111.8595
40.7072	-111.8584
40.7060	-111.8574
40.7046	-111.8564
40.7035	-111.8555
40.7022	-111.8538
40.7007	-111.8522
40.6986	-111.8512
40.6966	-111.8509
40.6945	-111.8488
40.6926	-111.8475
40.6908	-111.8457
40.6890	-111.8452
40.6864	-111.8441
40.6864	-111.8431
40.6833	-111.8418

40.6814 -111.8407
40.6799 -111.8394
40.6788 -111.8381
40.6778 -111.8368
40.6770 -111.8360
40.6754 -111.8353
40.6739 -111.8342
40.6726 -111.8315
40.6718 -111.8291
40.6710 -111.8265
40.6705 -111.8241
40.6697 -111.8218
40.6692 -111.8200
40.6687 -111.8179
40.6682 -111.8158
40.6676 -111.8137
40.6671 -111.8119
40.6666 -111.8103
40.6661 -111.8093
40.6658 -111.8077
40.6658 -111.8072
40.6635 -111.8067
40.6619 -111.8064
40.6606 -111.8064
40.6588 -111.8067
40.6572 -111.8072
40.6554 -111.8074
40.6543 -111.8082
40.6538 -111.8085
40.6522 -111.8085
40.6504 -111.8085
40.6486 -111.8069
40.6478 -111.8059
40.6473 -111.8048
40.6455 -111.8035
40.6436 -111.8022
40.6413 -111.8007
40.6397 -111.7994
40.6387 -111.7986
40.6358 -111.7994
40.6340 -111.7996
40.6319 -111.7991
40.6298 -111.7978
40.6285 -111.7965
40.6267 -111.7954
40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7907
40.6191 -111.7894
40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6081 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
40.6006 -111.7936
40.5990 -111.7936
40.5977 -111.7928
40.5951 -111.7921
40.5938 -111.7910
40.5928 -111.7900
40.5912 -111.7892
40.5894 -111.7889
40.5873 -111.7902
40.5857 -111.7918
40.5834 -111.7934
40.5821 -111.7949
40.5791 -111.7953
40.5766 -111.7953
40.5750 -111.7956
40.5730 -111.7956
40.5712 -111.7958
40.5696 -111.7958
40.5681 -111.7951
40.5660 -111.7943
40.5642 -111.7943
40.5624 -111.7948
40.5609 -111.7977
40.5593 -111.7982
40.5578 -111.7982
40.5562 -111.7995
40.5544 -111.7995
40.5526 -111.7997
40.5511 -111.8007
40.5482 -111.8020

40.5467	-111.8038
40.5446	-111.8061
40.5433	-111.8077
40.5423	-111.8092
40.5413	-111.8108
40.5390	-111.8123
40.5372	-111.8136
40.5354	-111.8149
40.5328	-111.8190
40.5310	-111.8211
40.5300	-111.8242
40.5279	-111.8265
40.5248	-111.8291
40.5225	-111.8316
40.5207	-111.8337
40.5184	-111.8355
40.5166	-111.8365
40.5143	-111.8378
40.5122	-111.8391
40.5094	-111.8388
40.5071	-111.8388
40.5047	-111.8381
40.5027	-111.8373
40.5011	-111.8363
40.5001	-111.8352
40.4985	-111.8336

------ End Nested Sources for SLC Cluster - Group2 -------

Name: SLC Cluster - Group3
Region: USGS 2014
Category:Clustered Seismic Source
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.24
Time Independent Cluster Rate (events/year): 0.000769
------ Start Nested Sources forSLC Cluster - Group3 -------
Name: g3 Wasatch fault, Salt Lake City Warm Springs-section.M from SRL (dip 65)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.231

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Characteristic	0.2	Activity	7.690e-004	6.029000	6.031000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.600000	Activity	7.690e-004	6.229000	6.231000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.200000	Activity	7.690e-004	6.429000	6.431000	2.300000	0.000000	0.000000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8446	-111.8955
40.8420	-111.8977
40.8405	-111.8999
40.8393	-111.9018
40.8384	-111.9035
40.8362	-111.9059
40.8355	-111.9059
40.8343	-111.9081
40.8330	-111.9100
40.8318	-111.9122
40.8297	-111.9129
40.8280	-111.9134
40.8258	-111.9141
40.8239	-111.9141
40.8222	-111.9144
40.8202	-111.9149
40.8185	-111.9156
40.8171	-111.9161
40.8159	-111.9173
40.8140	-111.9163
40.8125	-111.9149
40.8108	-111.9136
40.8091	-111.9129
40.8074	-111.9120
40.8055	-111.9107
40.8038	-111.9093
40.8021	-111.9081
40.8004	-111.9066

40.7997	-111.9057
40.7990	-111.9045
40.7982	-111.9035
40.7973	-111.9025
40.7963	-111.9018
40.7949	-111.9016
40.7933	-111.9011
40.7927	-111.9003
40.7922	-111.8997
40.7917	-111.8992
40.7911	-111.8988
40.7905	-111.8983
40.7897	-111.8981
40.7891	-111.8980
40.7887	-111.8980
40.7881	-111.8978
40.7877	-111.8974
40.7874	-111.8970
40.7868	-111.8965
40.7862	-111.8961
40.7853	-111.8956
40.7847	-111.8950
40.7841	-111.8943
40.7836	-111.8937
40.7831	-111.8932
40.7828	-111.8926
40.7823	-111.8923
40.7819	-111.8918
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7796	-111.8906
40.7785	-111.8903
40.7777	-111.8902
40.7769	-111.8900
40.7761	-111.8898
40.7755	-111.8897
40.7748	-111.8897
40.7741	-111.8897
40.7734	-111.8898
40.7723	-111.8900
40.7716	-111.8903
40.7710	-111.8906
40.7704	-111.8908
40.7700	-111.8908
40.7689	-111.8913

Name: g3 Wasatch fault, Salt Lake City tear flt (dip 90)
Region: USGS 2014
Category:Fault
Fault Mechanism: Strike Slip
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 4.401

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	90	1	1.001	6

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Characteristic	0.2	Activity	7.690e-004	4.199000	4.201000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.600000	Activity	7.690e-004	4.399000	4.401000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.200000	Activity	7.690e-004	4.599000	4.601000	2.300000	0.000000	0.000000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.7689	-111.8913
40.7691	-111.8890
40.7694	-111.8867
40.7697	-111.8847
40.7700	-111.8822
40.7703	-111.8797
40.7705	-111.8778
40.7708	-111.8758
40.7710	-111.8740
40.7713	-111.8713
40.7716	-111.8692
40.7718	-111.8670
40.7722	-111.8643
40.7725	-111.8618
40.7729	-111.8586
40.7732	-111.8559
40.7735	-111.8533

40.7739	-111.8504
40.7741	-111.8482
40.7744	-111.8454
40.7746	-111.8443
40.7747	-111.8430
40.7750	-111.8413

Name: g3 Wasatch fault, Salt Lake City East Bench&Cottonwood sections (dip 65)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.901

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Characteristic	0.2	Activity	7.690e-004	6.699000	6.701000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.600000	Activity	7.690e-004	6.899000	6.901000	2.300000	0.000000	0.000000	0.010000	10.000000
Characteristic	0.200000	Activity	7.690e-004	7.099000	7.101000	2.300000	0.000000	0.000000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463
40.7705	-111.8476
40.7697	-111.8488
40.7690	-111.8498
40.7683	-111.8505
40.7677	-111.8515
40.7670	-111.8527
40.7660	-111.8546
40.7651	-111.8564
40.7642	-111.8577
40.7633	-111.8589
40.7627	-111.8596
40.7618	-111.8609
40.7608	-111.8619
40.7600	-111.8627
40.7588	-111.8634
40.7576	-111.8637
40.7566	-111.8636
40.7557	-111.8634
40.7547	-111.8629
40.7539	-111.8622
40.7530	-111.8617
40.7521	-111.8607
40.7514	-111.8601
40.7507	-111.8595
40.7501	-111.8590
40.7477	-111.8574
40.7456	-111.8569
40.7443	-111.8564
40.7430	-111.8559
40.7414	-111.8548
40.7396	-111.8546
40.7373	-111.8546
40.7354	-111.8556
40.7339	-111.8574
40.7326	-111.8587
40.7318	-111.8598
40.7302	-111.8603
40.7287	-111.8598
40.7268	-111.8598
40.7250	-111.8600
40.7232	-111.8600
40.7211	-111.8600
40.7189	-111.8602
40.7172	-111.8611
40.7156	-111.8619
40.7142	-111.8624
40.7129	-111.8624
40.7113	-111.8621
40.7103	-111.8614
40.7095	-111.8607
40.7082	-111.8595
40.7072	-111.8584
40.7060	-111.8574

40.7046 -111.8564
40.7035 -111.8555
40.7022 -111.8538
40.7007 -111.8522
40.6986 -111.8512
40.6966 -111.8509
40.6945 -111.8488
40.6926 -111.8475
40.6908 -111.8457
40.6890 -111.8452
40.6864 -111.8441
40.6864 -111.8431
40.6833 -111.8418
40.6814 -111.8407
40.6799 -111.8394
40.6788 -111.8381
40.6778 -111.8368
40.6770 -111.8360
40.6754 -111.8353
40.6739 -111.8342
40.6726 -111.8315
40.6718 -111.8291
40.6710 -111.8265
40.6705 -111.8241
40.6697 -111.8218
40.6692 -111.8200
40.6687 -111.8179
40.6682 -111.8158
40.6676 -111.8137
40.6671 -111.8119
40.6666 -111.8103
40.6661 -111.8093
40.6658 -111.8077
40.6658 -111.8072
40.6635 -111.8067
40.6619 -111.8064
40.6606 -111.8064
40.6588 -111.8067
40.6572 -111.8072
40.6554 -111.8074
40.6543 -111.8082
40.6538 -111.8085
40.6522 -111.8085
40.6504 -111.8085
40.6486 -111.8069
40.6478 -111.8059
40.6473 -111.8048
40.6455 -111.8035
40.6436 -111.8022
40.6413 -111.8007
40.6397 -111.7994
40.6387 -111.7986
40.6358 -111.7994
40.6340 -111.7996
40.6319 -111.7991
40.6298 -111.7978
40.6285 -111.7965
40.6267 -111.7954
40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7907
40.6191 -111.7894
40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6081 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
40.6006 -111.7936
40.5990 -111.7936
40.5977 -111.7928
40.5951 -111.7921
40.5938 -111.7910
40.5928 -111.7900
40.5912 -111.7892
40.5894 -111.7889
40.5873 -111.7902
40.5857 -111.7918
40.5834 -111.7934
40.5821 -111.7949
40.5791 -111.7953
40.5766 -111.7953
40.5750 -111.7956
40.5730 -111.7956
40.5712 -111.7958

40.5696	-111.7958
40.5681	-111.7951
40.5660	-111.7943
40.5642	-111.7943
40.5624	-111.7948
40.5609	-111.7977
40.5593	-111.7982
40.5578	-111.7982
40.5562	-111.7995
40.5544	-111.7995
40.5526	-111.7997
40.5511	-111.8007
40.5482	-111.8020
40.5467	-111.8038
40.5446	-111.8061
40.5433	-111.8077
40.5423	-111.8092
40.5413	-111.8108
40.5390	-111.8123
40.5372	-111.8136
40.5354	-111.8149
40.5328	-111.8190
40.5310	-111.8211
40.5300	-111.8242
40.5279	-111.8265
40.5248	-111.8291
40.5225	-111.8316
40.5207	-111.8337
40.5184	-111.8355
40.5166	-111.8365
40.5143	-111.8378
40.5122	-111.8391
40.5094	-111.8388
40.5071	-111.8388
40.5047	-111.8381
40.5027	-111.8373
40.5011	-111.8363
40.5001	-111.8352
40.4985	-111.8336

------ End Nested Sources for SLC Cluster - Group3 -------

Name: 2351f_alt3 Wasatch Fault SLC through Virginia St flt - Full Char (dip 35)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.03201600
Deterministic Magnitude: 7.05

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	7.690e-004	6.610000	7.090000	0.000000	6.850000	0.120000	0.000000	0.000000
Normal	0.600000	Activity	7.690e-004	6.810000	7.290000	0.000000	7.050000	0.120000	0.000000	0.000000
Normal	0.200000	Activity	7.690e-004	7.010000	7.490000	0.000000	7.250000	0.120000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.8091	-111.9129
40.7927	-111.9003
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463
40.7706	-111.8476
40.7697	-111.8488
40.7691	-111.8498
40.7683	-111.8505
40.7677	-111.8515
40.7670	-111.8527
40.7660	-111.8546
40.7651	-111.8564
40.7642	-111.8577

40.7633 -111.8589
40.7627 -111.8596
40.7618 -111.8609
40.7608 -111.8619
40.7600 -111.8628
40.7588 -111.8634
40.7576 -111.8637
40.7566 -111.8636
40.7557 -111.8634
40.7547 -111.8629
40.7539 -111.8623
40.7530 -111.8618
40.7521 -111.8608
40.7514 -111.8601
40.7507 -111.8595
40.7501 -111.8590
40.7477 -111.8574
40.7456 -111.8569
40.7443 -111.8564
40.7430 -111.8559
40.7414 -111.8548
40.7396 -111.8546
40.7373 -111.8546
40.7354 -111.8556
40.7339 -111.8574
40.7326 -111.8587
40.7318 -111.8598
40.7302 -111.8603
40.7287 -111.8598
40.7268 -111.8598
40.7250 -111.8601
40.7232 -111.8601
40.7211 -111.8601
40.7189 -111.8602
40.7172 -111.8611
40.7156 -111.8619
40.7142 -111.8624
40.7129 -111.8624
40.7113 -111.8621
40.7103 -111.8614
40.7095 -111.8607
40.7082 -111.8595
40.7072 -111.8584
40.7060 -111.8574
40.7046 -111.8564
40.7035 -111.8555
40.7022 -111.8538
40.7007 -111.8522
40.6986 -111.8512
40.6966 -111.8509
40.6945 -111.8488
40.6927 -111.8475
40.6908 -111.8457
40.6890 -111.8452
40.6864 -111.8441
40.6864 -111.8431
40.6833 -111.8418
40.6814 -111.8407
40.6799 -111.8394
40.6788 -111.8381
40.6778 -111.8368
40.6770 -111.8360
40.6754 -111.8353
40.6739 -111.8342
40.6726 -111.8315
40.6718 -111.8291
40.6710 -111.8265
40.6705 -111.8241
40.6697 -111.8218
40.6692 -111.8200
40.6687 -111.8179
40.6682 -111.8158
40.6676 -111.8137
40.6671 -111.8119
40.6666 -111.8103
40.6661 -111.8093
40.6658 -111.8077
40.6658 -111.8072
40.6635 -111.8067
40.6619 -111.8064
40.6606 -111.8064
40.6588 -111.8067
40.6572 -111.8072
40.6554 -111.8075
40.6543 -111.8082
40.6538 -111.8085
40.6523 -111.8085
40.6504 -111.8085
40.6486 -111.8069
40.6478 -111.8059

40.6473 -111.8048
40.6455 -111.8035
40.6436 -111.8022
40.6413 -111.8007
40.6397 -111.7994
40.6387 -111.7986
40.6358 -111.7994
40.6340 -111.7996
40.6319 -111.7991
40.6298 -111.7978
40.6285 -111.7965
40.6267 -111.7954
40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7908
40.6191 -111.7894
40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6082 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
40.6006 -111.7936
40.5990 -111.7936
40.5977 -111.7928
40.5951 -111.7921
40.5938 -111.7910
40.5928 -111.7900
40.5912 -111.7892
40.5894 -111.7889
40.5873 -111.7902
40.5857 -111.7918
40.5834 -111.7934
40.5821 -111.7949
40.5791 -111.7953
40.5766 -111.7953
40.5750 -111.7956
40.5730 -111.7956
40.5712 -111.7959
40.5696 -111.7959
40.5681 -111.7951
40.5660 -111.7943
40.5642 -111.7943
40.5624 -111.7948
40.5609 -111.7977
40.5593 -111.7982
40.5578 -111.7982
40.5562 -111.7994
40.5544 -111.7994
40.5526 -111.7997
40.5511 -111.8007
40.5482 -111.8020
40.5467 -111.8038
40.5446 -111.8061
40.5433 -111.8077
40.5423 -111.8092
40.5413 -111.8108
40.5390 -111.8123
40.5372 -111.8136
40.5354 -111.8149
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40.5310 -111.8211
40.5300 -111.8242
40.5279 -111.8265
40.5248 -111.8291
40.5225 -111.8316
40.5207 -111.8337
40.5184 -111.8355
40.5166 -111.8365
40.5143 -111.8378
40.5122 -111.8391
40.5094 -111.8388
40.5071 -111.8388
40.5047 -111.8381
40.5027 -111.8373
40.5011 -111.8363
40.5001 -111.8352
40.4985 -111.8336

Name: 2351f_alt3 Wasatch Fault SLC through Virginia St flt - Full Char (dip 50)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.09604800

Deterministic Magnitude: 7.05

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	7.690e-004	6.610000	7.090000	0.000000	6.850000	0.120000	0.000000	0.000000
Normal	0.600000	Activity	7.690e-004	6.810000	7.290000	0.000000	7.050000	0.120000	0.000000	0.000000
Normal	0.200000	Activity	7.690e-004	7.010000	7.490000	0.000000	7.250000	0.120000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.8091	-111.9129
40.7927	-111.9003
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463
40.7706	-111.8476
40.7697	-111.8488
40.7691	-111.8498
40.7683	-111.8505
40.7677	-111.8515
40.7670	-111.8527
40.7660	-111.8546
40.7651	-111.8564
40.7642	-111.8577
40.7633	-111.8589
40.7627	-111.8596
40.7618	-111.8609
40.7608	-111.8619
40.7600	-111.8628
40.7588	-111.8634
40.7576	-111.8637
40.7566	-111.8636
40.7557	-111.8634
40.7547	-111.8629
40.7539	-111.8623
40.7530	-111.8618
40.7521	-111.8608
40.7514	-111.8601
40.7507	-111.8595
40.7501	-111.8590
40.7477	-111.8574
40.7456	-111.8569
40.7443	-111.8564
40.7430	-111.8559
40.7414	-111.8548
40.7396	-111.8546
40.7373	-111.8546
40.7354	-111.8556
40.7339	-111.8574
40.7326	-111.8587
40.7318	-111.8598
40.7302	-111.8603
40.7287	-111.8598
40.7268	-111.8598
40.7250	-111.8601
40.7232	-111.8601
40.7211	-111.8601
40.7189	-111.8602
40.7172	-111.8611
40.7156	-111.8619
40.7142	-111.8624
40.7129	-111.8624
40.7113	-111.8621
40.7103	-111.8614
40.7095	-111.8607
40.7082	-111.8595
40.7072	-111.8584
40.7060	-111.8574
40.7046	-111.8564
40.7035	-111.8555
40.7022	-111.8538
40.7007	-111.8522

40.6986 -111.8512
40.6966 -111.8509
40.6945 -111.8488
40.6927 -111.8475
40.6908 -111.8457
40.6890 -111.8452
40.6864 -111.8441
40.6864 -111.8431
40.6833 -111.8418
40.6814 -111.8407
40.6799 -111.8394
40.6788 -111.8381
40.6778 -111.8368
40.6770 -111.8360
40.6754 -111.8353
40.6739 -111.8342
40.6726 -111.8315
40.6718 -111.8291
40.6710 -111.8265
40.6705 -111.8241
40.6697 -111.8218
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40.6319 -111.7991
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40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7908
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40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6082 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
40.6006 -111.7936
40.5990 -111.7936
40.5977 -111.7928
40.5951 -111.7921
40.5938 -111.7910
40.5928 -111.7900
40.5912 -111.7892
40.5894 -111.7889
40.5873 -111.7902
40.5857 -111.7918
40.5834 -111.7934
40.5821 -111.7949
40.5791 -111.7953
40.5766 -111.7953
40.5750 -111.7956
40.5730 -111.7956
40.5712 -111.7959
40.5696 -111.7959
40.5681 -111.7951
40.5660 -111.7943
40.5642 -111.7943

40.5624	-111.7948
40.5609	-111.7977
40.5593	-111.7982
40.5578	-111.7982
40.5562	-111.7994
40.5544	-111.7994
40.5526	-111.7997
40.5511	-111.8007
40.5482	-111.8020
40.5467	-111.8038
40.5446	-111.8061
40.5433	-111.8077
40.5423	-111.8092
40.5413	-111.8108
40.5390	-111.8123
40.5372	-111.8136
40.5354	-111.8149
40.5328	-111.8190
40.5310	-111.8211
40.5300	-111.8242
40.5279	-111.8265
40.5248	-111.8291
40.5225	-111.8316
40.5207	-111.8337
40.5184	-111.8355
40.5166	-111.8365
40.5143	-111.8378
40.5122	-111.8391
40.5094	-111.8388
40.5071	-111.8388
40.5047	-111.8381
40.5027	-111.8373
40.5011	-111.8363
40.5001	-111.8352
40.4985	-111.8336

Name: 2351f_alt3 Wasatch Fault SLC through Virginia St flt - Full Char (dip 65)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.03201600
Deterministic Magnitude: 7.05

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	7.690e-004	6.610000	7.090000	0.000000	6.850000	0.120000	0.000000	0.000000
Normal	0.600000	Activity	7.690e-004	6.810000	7.290000	0.000000	7.050000	0.120000	0.000000	0.000000
Normal	0.200000	Activity	7.690e-004	7.010000	7.490000	0.000000	7.250000	0.120000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.8091	-111.9129
40.7927	-111.9003
40.7813	-111.8914
40.7807	-111.8911
40.7802	-111.8908
40.7750	-111.8413
40.7739	-111.8427
40.7727	-111.8442
40.7715	-111.8463
40.7706	-111.8476
40.7697	-111.8488
40.7691	-111.8498
40.7683	-111.8505
40.7677	-111.8515
40.7670	-111.8527
40.7660	-111.8546
40.7651	-111.8564
40.7642	-111.8577
40.7633	-111.8589
40.7627	-111.8596
40.7618	-111.8609
40.7608	-111.8619
40.7600	-111.8628
40.7588	-111.8634

40.7576 -111.8637
40.7566 -111.8636
40.7557 -111.8634
40.7547 -111.8629
40.7539 -111.8623
40.7530 -111.8618
40.7521 -111.8608
40.7514 -111.8601
40.7507 -111.8595
40.7501 -111.8590
40.7477 -111.8574
40.7456 -111.8569
40.7443 -111.8564
40.7430 -111.8559
40.7414 -111.8548
40.7396 -111.8546
40.7373 -111.8546
40.7354 -111.8556
40.7339 -111.8574
40.7326 -111.8587
40.7318 -111.8598
40.7302 -111.8603
40.7287 -111.8598
40.7268 -111.8598
40.7250 -111.8601
40.7232 -111.8601
40.7211 -111.8601
40.7189 -111.8602
40.7172 -111.8611
40.7156 -111.8619
40.7142 -111.8624
40.7129 -111.8624
40.7113 -111.8621
40.7103 -111.8614
40.7095 -111.8607
40.7082 -111.8595
40.7072 -111.8584
40.7060 -111.8574
40.7046 -111.8564
40.7035 -111.8555
40.7022 -111.8538
40.7007 -111.8522
40.6986 -111.8512
40.6966 -111.8509
40.6945 -111.8488
40.6927 -111.8475
40.6908 -111.8457
40.6890 -111.8452
40.6864 -111.8441
40.6864 -111.8431
40.6833 -111.8418
40.6814 -111.8407
40.6799 -111.8394
40.6788 -111.8381
40.6778 -111.8368
40.6770 -111.8360
40.6754 -111.8353
40.6739 -111.8342
40.6726 -111.8315
40.6718 -111.8291
40.6710 -111.8265
40.6705 -111.8241
40.6697 -111.8218
40.6692 -111.8200
40.6687 -111.8179
40.6682 -111.8158
40.6676 -111.8137
40.6671 -111.8119
40.6666 -111.8103
40.6661 -111.8093
40.6658 -111.8077
40.6658 -111.8072
40.6635 -111.8067
40.6619 -111.8064
40.6606 -111.8064
40.6588 -111.8067
40.6572 -111.8072
40.6554 -111.8075
40.6543 -111.8082
40.6538 -111.8085
40.6523 -111.8085
40.6504 -111.8085
40.6486 -111.8069
40.6478 -111.8059
40.6473 -111.8048
40.6455 -111.8035
40.6436 -111.8022
40.6413 -111.8007
40.6397 -111.7994
40.6387 -111.7986

40.6358 -111.7994
40.6340 -111.7996
40.6319 -111.7991
40.6298 -111.7978
40.6285 -111.7965
40.6267 -111.7954
40.6256 -111.7944
40.6243 -111.7939
40.6220 -111.7936
40.6207 -111.7921
40.6196 -111.7908
40.6191 -111.7894
40.6183 -111.7879
40.6162 -111.7871
40.6144 -111.7876
40.6121 -111.7889
40.6100 -111.7905
40.6082 -111.7913
40.6066 -111.7926
40.6050 -111.7931
40.6024 -111.7931
40.6006 -111.7936
40.5990 -111.7936
40.5977 -111.7928
40.5951 -111.7921
40.5938 -111.7910
40.5928 -111.7900
40.5912 -111.7892
40.5894 -111.7889
40.5873 -111.7902
40.5857 -111.7918
40.5834 -111.7934
40.5821 -111.7949
40.5791 -111.7953
40.5766 -111.7953
40.5750 -111.7956
40.5730 -111.7956
40.5712 -111.7959
40.5696 -111.7959
40.5681 -111.7951
40.5660 -111.7943
40.5642 -111.7943
40.5624 -111.7948
40.5609 -111.7977
40.5593 -111.7982
40.5578 -111.7982
40.5562 -111.7994
40.5544 -111.7994
40.5526 -111.7997
40.5511 -111.8007
40.5482 -111.8020
40.5467 -111.8038
40.5446 -111.8061
40.5433 -111.8077
40.5423 -111.8092
40.5413 -111.8108
40.5390 -111.8123
40.5372 -111.8136
40.5354 -111.8149
40.5328 -111.8190
40.5310 -111.8211
40.5300 -111.8242
40.5279 -111.8265
40.5248 -111.8291
40.5225 -111.8316
40.5207 -111.8337
40.5184 -111.8355
40.5166 -111.8365
40.5143 -111.8378
40.5122 -111.8391
40.5094 -111.8388
40.5071 -111.8388
40.5047 -111.8381
40.5027 -111.8373
40.5011 -111.8363
40.5001 -111.8352
40.4985 -111.8336

Name: 2351f Wasatch fault, Salt Lake City section - Full Char (dip 35)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.02401200
Deterministic Magnitude: 7.03

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	7.690e-004	6.590000	7.070000	0.000000	6.830000	0.120000	0.000000	0.000000
Normal	0.600000	Activity	7.690e-004	6.790000	7.270000	0.000000	7.030000	0.120000	0.000000	0.000000
Normal	0.200000	Activity	7.690e-004	6.990000	7.470000	0.000000	7.230000	0.120000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.7813	-111.8928
40.7687	-111.8922
40.7560	-111.8641
40.7473	-111.8579
40.7372	-111.8549
40.7307	-111.8606
40.7121	-111.8632
40.6816	-111.8417
40.6727	-111.8335
40.6737	-111.8082
40.6519	-111.8095
40.6308	-111.7997
40.6169	-111.7878
40.6047	-111.7942
40.5901	-111.7895
40.5811	-111.7961
40.5638	-111.7947
40.5490	-111.8014
40.5286	-111.8266
40.5130	-111.8391
40.5006	-111.8367
40.4950	-111.8217

Name: 2351f Wasatch fault, Salt Lake City section - Full Char (dip 50)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.07203600
Deterministic Magnitude: 7.03

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	7.690e-004	6.590000	7.070000	0.000000	6.830000	0.120000	0.000000	0.000000
Normal	0.600000	Activity	7.690e-004	6.790000	7.270000	0.000000	7.030000	0.120000	0.000000	0.000000
Normal	0.200000	Activity	7.690e-004	6.990000	7.470000	0.000000	7.230000	0.120000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.7813	-111.8928
40.7687	-111.8922
40.7560	-111.8641
40.7473	-111.8579
40.7372	-111.8549
40.7307	-111.8606
40.7121	-111.8632
40.6816	-111.8417
40.6727	-111.8335
40.6737	-111.8082
40.6519	-111.8095
40.6308	-111.7997
40.6169	-111.7878
40.6047	-111.7942
40.5901	-111.7895
40.5811	-111.7961
40.5638	-111.7947
40.5490	-111.8014
40.5286	-111.8266

40.5130	-111.8391
40.5006	-111.8367
40.4950	-111.8217

Name: 2351f Wasatch fault, Salt Lake City section - Full Char (dip 65)
Region: USGS 2014
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.02401200
Deterministic Magnitude: 7.03

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	7.690e-004	6.590000	7.070000	0.000000	6.830000	0.120000	0.000000	0.000000
Normal	0.600000	Activity	7.690e-004	6.790000	7.270000	0.000000	7.030000	0.120000	0.000000	0.000000
Normal	0.200000	Activity	7.690e-004	6.990000	7.470000	0.000000	7.230000	0.120000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.8494	-111.8870
40.8418	-111.8987
40.8303	-111.9135
40.8146	-111.9179
40.7813	-111.8928
40.7687	-111.8922
40.7560	-111.8641
40.7473	-111.8579
40.7372	-111.8549
40.7307	-111.8606
40.7121	-111.8632
40.6816	-111.8417
40.6727	-111.8335
40.6737	-111.8082
40.6519	-111.8095
40.6308	-111.7997
40.6169	-111.7878
40.6047	-111.7942
40.5901	-111.7895
40.5811	-111.7961
40.5638	-111.7947
40.5490	-111.8014
40.5286	-111.8266
40.5130	-111.8391
40.5006	-111.8367
40.4950	-111.8217

Name: Wasatch fault, all segs (dip 35)
Region: USGS 2008
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.02000000
Deterministic Magnitude: 7.401

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Exponential	0.2	Activity	5.910e-006	7.199000	7.201000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.600000	Activity	4.089e-006	7.399000	7.401000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.200000	Activity	2.829e-006	7.599000	7.601000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.6521	-112.0475
41.6405	-112.0599
41.6307	-112.0545
41.6165	-112.0553
41.6106	-112.0412
41.5602	-112.0172
41.5542	-112.0191

41.5236 -111.9979
41.4992 -111.9879
41.4436 -112.0286
41.4277 -112.0282
41.4167 -112.0209
41.3807 -112.0246
41.3590 -111.9878
41.3334 -111.9607
41.3368 -111.9404
41.3069 -111.9299
41.2949 -111.9411
41.2772 -111.9483
41.2629 -111.9465
41.2598 -111.9390
41.2501 -111.9375
41.2407 -111.9270
41.2229 -111.9289
41.2149 -111.9235
41.2085 -111.9321
41.1869 -111.9388
41.1797 -111.9362
41.1768 -111.9282
41.1647 -111.9240
41.1509 -111.9061
41.1427 -111.9076
41.1314 -111.8975
41.1038 -111.9101
41.0853 -111.9036
41.0681 -111.9100
41.0557 -111.9032
41.0393 -111.9065
41.0292 -111.8989
41.0046 -111.8952
40.9993 -111.8844
40.9917 -111.8847
40.9771 -111.8739
40.9637 -111.8714
40.9608 -111.8787
40.9545 -111.8802
40.9460 -111.8735
40.9049 -111.8645
40.8906 -111.8519
40.8661 -111.8560
40.8494 -111.8863
40.8419 -111.8979
40.8304 -111.9128
40.8147 -111.9172
40.7813 -111.8920
40.7687 -111.8915
40.7561 -111.8634
40.7474 -111.8572
40.7372 -111.8541
40.7308 -111.8598
40.7122 -111.8625
40.6816 -111.8409
40.6727 -111.8327
40.6737 -111.8074
40.6520 -111.8087
40.6309 -111.7989
40.6169 -111.7870
40.6048 -111.7935
40.5902 -111.7887
40.5812 -111.7954
40.5638 -111.7939
40.5490 -111.8006
40.5287 -111.8258
40.5131 -111.8384
40.5007 -111.8360
40.4951 -111.8210
40.4858 -111.7530
40.4813 -111.7459
40.4761 -111.7438
40.4603 -111.7498
40.4554 -111.7455
40.4449 -111.7525
40.4344 -111.7523
40.4152 -111.7410
40.4110 -111.7428
40.3977 -111.7267
40.3846 -111.7199
40.3539 -111.6909
40.3418 -111.6753
40.3132 -111.6562
40.3119 -111.6377
40.2878 -111.6313
40.2781 -111.6345
40.2345 -111.6309
40.2122 -111.6232
40.2092 -111.6162
40.1947 -111.6085

40.1896	-111.5983
40.1727	-111.5964
40.1671	-111.5808
40.1489	-111.5550
40.1330	-111.5501
40.1273	-111.5575
40.1213	-111.5551
40.1005	-111.5709
40.0843	-111.5719
40.0836	-111.5959
40.0716	-111.6180
40.0486	-111.6345
40.0325	-111.6307
40.0063	-111.6429
40.0003	-111.7333
39.9923	-111.7511
39.9767	-111.7622
39.9444	-111.7571
39.9314	-111.7851
39.8824	-111.7910
39.8673	-111.8039
39.8286	-111.8064
39.8226	-111.8117
39.7507	-111.8278
39.7328	-111.8276
39.7067	-111.8157
39.7001	-111.8195
39.6434	-111.8268
39.6241	-111.8199
39.5741	-111.8209
39.5504	-111.8313
39.5272	-111.8613
39.5057	-111.8592
39.4888	-111.8709
39.4793	-111.8834
39.4572	-111.8844
39.4336	-111.9125
39.4212	-111.9140
39.4182	-111.9199
39.3864	-111.9184
39.3807	-111.9218

Name: Wasatch fault, all segs (dip 50)
Region: USGS 2008
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.06000000
Deterministic Magnitude: 7.401

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Exponential	0.2	Activity	5.595e-006	7.199000	7.201000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.600000	Activity	3.871e-006	7.399000	7.401000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.200000	Activity	2.678e-006	7.599000	7.601000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.6521	-112.0475
41.6405	-112.0599
41.6307	-112.0545
41.6165	-112.0553
41.6106	-112.0412
41.5602	-112.0172
41.5542	-112.0191
41.5236	-111.9979
41.4992	-111.9879
41.4436	-112.0286
41.4277	-112.0282
41.4167	-112.0209
41.3807	-112.0246
41.3590	-111.9878
41.3334	-111.9607
41.3368	-111.9404
41.3069	-111.9299
41.2949	-111.9411
41.2772	-111.9483
41.2629	-111.9465
41.2598	-111.9390
41.2501	-111.9375

41.2407 -111.9270
41.2229 -111.9289
41.2149 -111.9235
41.2085 -111.9321
41.1869 -111.9388
41.1797 -111.9362
41.1768 -111.9282
41.1647 -111.9240
41.1509 -111.9061
41.1427 -111.9076
41.1314 -111.8975
41.1038 -111.9101
41.0853 -111.9036
41.0681 -111.9100
41.0557 -111.9032
41.0393 -111.9065
41.0292 -111.8989
41.0046 -111.8952
40.9993 -111.8844
40.9917 -111.8847
40.9771 -111.8739
40.9637 -111.8714
40.9608 -111.8787
40.9545 -111.8802
40.9460 -111.8735
40.9049 -111.8645
40.8906 -111.8519
40.8661 -111.8560
40.8494 -111.8863
40.8419 -111.8979
40.8304 -111.9128
40.8147 -111.9172
40.7813 -111.8920
40.7687 -111.8915
40.7561 -111.8634
40.7474 -111.8572
40.7372 -111.8541
40.7308 -111.8598
40.7122 -111.8625
40.6816 -111.8409
40.6727 -111.8327
40.6737 -111.8074
40.6520 -111.8087
40.6309 -111.7989
40.6169 -111.7870
40.6048 -111.7935
40.5902 -111.7887
40.5812 -111.7954
40.5638 -111.7939
40.5490 -111.8006
40.5287 -111.8258
40.5131 -111.8384
40.5007 -111.8360
40.4951 -111.8210
40.4858 -111.7530
40.4813 -111.7459
40.4761 -111.7438
40.4603 -111.7498
40.4554 -111.7455
40.4449 -111.7525
40.4344 -111.7523
40.4152 -111.7410
40.4110 -111.7428
40.3977 -111.7267
40.3846 -111.7199
40.3539 -111.6909
40.3418 -111.6753
40.3132 -111.6562
40.3119 -111.6377
40.2878 -111.6313
40.2781 -111.6345
40.2345 -111.6309
40.2122 -111.6232
40.2092 -111.6162
40.1947 -111.6085
40.1896 -111.5983
40.1727 -111.5964
40.1671 -111.5808
40.1489 -111.5550
40.1330 -111.5501
40.1273 -111.5575
40.1213 -111.5551
40.1005 -111.5709
40.0843 -111.5719
40.0836 -111.5959
40.0716 -111.6180
40.0486 -111.6345
40.0325 -111.6307
40.0063 -111.6429
40.0003 -111.7333

39.9923	-111.7511
39.9767	-111.7622
39.9444	-111.7571
39.9314	-111.7851
39.8824	-111.7910
39.8673	-111.8039
39.8286	-111.8064
39.8226	-111.8117
39.7507	-111.8278
39.7328	-111.8276
39.7067	-111.8157
39.7001	-111.8195
39.6434	-111.8268
39.6241	-111.8199
39.5741	-111.8209
39.5504	-111.8313
39.5272	-111.8613
39.5057	-111.8592
39.4888	-111.8709
39.4793	-111.8834
39.4572	-111.8844
39.4336	-111.9125
39.4212	-111.9140
39.4182	-111.9199
39.3864	-111.9184
39.3807	-111.9218

Name: Wasatch fault, all segs (dip 65)
Region: USGS 2008
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.02000000
Deterministic Magnitude: 7.401

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Exponential	0.2	Activity	5.144e-006	7.199000	7.201000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.600000	Activity	3.559e-006	7.399000	7.401000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.200000	Activity	2.462e-006	7.599000	7.601000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.6521	-112.0475
41.6405	-112.0599
41.6307	-112.0545
41.6165	-112.0553
41.6106	-112.0412
41.5602	-112.0172
41.5542	-112.0191
41.5236	-111.9979
41.4992	-111.9879
41.4436	-112.0286
41.4277	-112.0282
41.4167	-112.0209
41.3807	-112.0246
41.3590	-111.9878
41.3334	-111.9607
41.3368	-111.9404
41.3069	-111.9299
41.2949	-111.9411
41.2772	-111.9483
41.2629	-111.9465
41.2598	-111.9390
41.2501	-111.9375
41.2407	-111.9270
41.2229	-111.9289
41.2149	-111.9235
41.2085	-111.9321
41.1869	-111.9388
41.1797	-111.9362
41.1768	-111.9282
41.1647	-111.9240
41.1509	-111.9061
41.1427	-111.9076
41.1314	-111.8975
41.1038	-111.9101
41.0853	-111.9036
41.0681	-111.9100
41.0557	-111.9032

41.0393 -111.9065
41.0292 -111.8989
41.0046 -111.8952
40.9993 -111.8844
40.9917 -111.8847
40.9771 -111.8739
40.9637 -111.8714
40.9608 -111.8787
40.9545 -111.8802
40.9460 -111.8735
40.9049 -111.8645
40.8906 -111.8519
40.8661 -111.8560
40.8494 -111.8863
40.8419 -111.8979
40.8304 -111.9128
40.8147 -111.9172
40.7813 -111.8920
40.7687 -111.8915
40.7561 -111.8634
40.7474 -111.8572
40.7372 -111.8541
40.7308 -111.8598
40.7122 -111.8625
40.6816 -111.8409
40.6727 -111.8327
40.6737 -111.8074
40.6520 -111.8087
40.6309 -111.7989
40.6169 -111.7870
40.6048 -111.7935
40.5902 -111.7887
40.5812 -111.7954
40.5638 -111.7939
40.5490 -111.8006
40.5287 -111.8258
40.5131 -111.8384
40.5007 -111.8360
40.4951 -111.8210
40.4858 -111.7530
40.4813 -111.7459
40.4761 -111.7438
40.4603 -111.7498
40.4554 -111.7455
40.4449 -111.7525
40.4344 -111.7523
40.4152 -111.7410
40.4110 -111.7428
40.3977 -111.7267
40.3846 -111.7199
40.3539 -111.6909
40.3418 -111.6753
40.3132 -111.6562
40.3119 -111.6377
40.2878 -111.6313
40.2781 -111.6345
40.2345 -111.6309
40.2122 -111.6232
40.2092 -111.6162
40.1947 -111.6085
40.1896 -111.5983
40.1727 -111.5964
40.1671 -111.5808
40.1489 -111.5550
40.1330 -111.5501
40.1273 -111.5575
40.1213 -111.5551
40.1005 -111.5709
40.0843 -111.5719
40.0836 -111.5959
40.0716 -111.6180
40.0486 -111.6345
40.0325 -111.6307
40.0063 -111.6429
40.0003 -111.7333
39.9923 -111.7511
39.9767 -111.7622
39.9444 -111.7571
39.9314 -111.7851
39.8824 -111.7910
39.8673 -111.8039
39.8286 -111.8064
39.8226 -111.8117
39.7507 -111.8278
39.7328 -111.8276
39.7067 -111.8157
39.7001 -111.8195
39.6434 -111.8268
39.6241 -111.8199
39.5741 -111.8209

39.5504	-111.8313
39.5272	-111.8613
39.5057	-111.8592
39.4888	-111.8709
39.4793	-111.8834
39.4572	-111.8844
39.4336	-111.9125
39.4212	-111.9140
39.4182	-111.9199
39.3864	-111.9184
39.3807	-111.9218

------ End Nested Sources for Salt Lake City - Wasatch Fault Source Model -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Morgan fault [2353abc]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forMorgan fault [2353abc] -------
Name: 2353abc Morgan fault (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.52

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	4.207e-005	6.080000	6.560000	2.300000	6.320000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	4.207e-005	6.280000	6.760000	2.300000	6.520000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	4.207e-005	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	4.678e-005	6.500000	6.520000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	3.658e-005	6.080000	6.560000	2.300000	6.320000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	3.658e-005	6.280000	6.760000	2.300000	6.520000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	3.658e-005	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	4.071e-005	6.500000	6.520000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	5.612e-005	6.080000	6.560000	2.300000	6.320000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.612e-005	6.280000	6.760000	2.300000	6.520000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.612e-005	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	6.238e-005	6.500000	6.520000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.1514	-111.7229
41.1067	-111.7067
41.0766	-111.6722
41.0273	-111.6687
41.0096	-111.6553

Name: 2353abc Morgan fault (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.52

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3

90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	4.207e-005	6.080000	6.560000	2.300000	6.320000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	4.207e-005	6.280000	6.760000	2.300000	6.520000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	4.207e-005	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	4.678e-005	6.500000	6.520000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	3.658e-005	6.080000	6.560000	2.300000	6.320000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	3.658e-005	6.280000	6.760000	2.300000	6.520000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	3.658e-005	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	4.071e-005	6.500000	6.520000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	5.612e-005	6.080000	6.560000	2.300000	6.320000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.612e-005	6.280000	6.760000	2.300000	6.520000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.612e-005	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	6.238e-005	6.500000	6.520000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.1514	-111.7229
41.1067	-111.7067
41.0766	-111.6722
41.0273	-111.6687
41.0096	-111.6553

Name: 2353abc Morgan fault (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.52

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	4.207e-005	6.080000	6.560000	2.300000	6.320000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	4.207e-005	6.280000	6.760000	2.300000	6.520000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	4.207e-005	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	4.678e-005	6.500000	6.520000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	3.658e-005	6.080000	6.560000	2.300000	6.320000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	3.658e-005	6.280000	6.760000	2.300000	6.520000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	3.658e-005	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	4.071e-005	6.500000	6.520000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	5.612e-005	6.080000	6.560000	2.300000	6.320000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.612e-005	6.280000	6.760000	2.300000	6.520000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.612e-005	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	6.238e-005	6.500000	6.520000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.1514	-111.7229
41.1067	-111.7067
41.0766	-111.6722
41.0273	-111.6687
41.0096	-111.6553

------ End Nested Sources for Morgan fault [2353abc] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

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Name: West Valley fault [2386]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forWest Valley fault [2386] -------
Name: 2386 West Valley fault (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.02000000
Deterministic Magnitude: 6.5

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.1	Activity	4.481e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.300000	Activity	4.481e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.100000	Activity	4.481e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.100000	Activity	6.360e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.300000	Activity	6.360e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.100000	Activity	6.360e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6580	-111.9508
40.6701	-111.9538
40.6881	-111.9588
40.7000	-111.9668
40.7171	-111.9728
40.7341	-111.9888
40.7451	-111.9888
40.7971	-112.0178

Name: 2386 West Valley fault (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.06000000
Deterministic Magnitude: 6.5

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.1	Activity	4.481e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.300000	Activity	4.481e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.100000	Activity	4.481e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.100000	Activity	6.360e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.300000	Activity	6.360e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.100000	Activity	6.360e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6580	-111.9508
40.6701	-111.9538
40.6881	-111.9588
40.7000	-111.9668
40.7171	-111.9728
40.7341	-111.9888
40.7451	-111.9888
40.7971	-112.0178

Name: 2386 West Valley fault (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.02000000
Deterministic Magnitude: 6.5

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.1	Activity	4.481e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.300000	Activity	4.481e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.100000	Activity	4.481e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.100000	Activity	6.360e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.300000	Activity	6.360e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.100000	Activity	6.360e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6580	-111.9508
40.6701	-111.9538
40.6881	-111.9588
40.7000	-111.9668
40.7171	-111.9728
40.7341	-111.9888
40.7451	-111.9888
40.7971	-112.0178

------ End Nested Sources for West Valley fault [2386] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

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Name: W65G35 West Valley (Wasatch 65) fault (dip 35)
Region: USGS 2014 Utah
Category:Fault
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.03200000
Deterministic Magnitude: 6.5

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	6.017

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	3.597e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.600000	Activity	3.597e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.200000	Activity	3.597e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6580	-111.9500

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    40.6700  -111.9530
    40.6880  -111.9580
    40.7000  -111.9660
    40.7170  -111.9720
    40.7340  -111.9880
    40.7450  -111.9880
    40.7970  -112.0170

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS 2014

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Name: W50G35 West Valley (Wasatch 50) fault (dip 35)
Region: USGS 2014 Utah
Category:Fault
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.09600000
Deterministic Magnitude: 6.5

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001     5.033

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag      Beta      Mean     Sigma    Delta1    Delta2
           Normal       0.2    Activity  3.597e-004  6.060000  6.540000  2.300000  6.300000  0.120000  0.010000 10.000000
           Normal  0.600000    Activity  3.597e-004  6.260000  6.740000  2.300000  6.500000  0.120000  0.010000 10.000000
           Normal  0.200000    Activity  3.597e-004  6.460000  6.940000  2.300000  6.700000  0.120000  0.010000 10.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw      Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    40.6580  -111.9500
    40.6700  -111.9530
    40.6880  -111.9580
    40.7000  -111.9660
    40.7170  -111.9720
    40.7340  -111.9880
    40.7450  -111.9880
    40.7970  -112.0170

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS 2014

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Name: W35G35 West Valley (Wasatch 35) fault (dip 35)
Region: USGS 2014 Utah
Category:Fault
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.03200000
Deterministic Magnitude: 6.5

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001     3.991

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag      Beta      Mean     Sigma    Delta1    Delta2
           Normal       0.2    Activity  3.597e-004  6.060000  6.540000  2.300000  6.300000  0.120000  0.010000 10.000000
           Normal  0.600000    Activity  3.597e-004  6.260000  6.740000  2.300000  6.500000  0.120000  0.010000 10.000000
           Normal  0.200000    Activity  3.597e-004  6.460000  6.940000  2.300000  6.700000  0.120000  0.010000 10.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw      Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    40.6580  -111.9500
```

40.6700	-111.9530
40.6880	-111.9580
40.7000	-111.9660
40.7170	-111.9720
40.7340	-111.9880
40.7450	-111.9880
40.7970	-112.0170

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

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Name: W65G50 West Valley (Wasatch 65) fault (dip 50)
Region: USGS 2014 Utah
Category:Fault
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.09600000
Deterministic Magnitude: 6.5

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	8.733

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	3.597e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.600000	Activity	3.597e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.200000	Activity	3.597e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6580	-111.9500
40.6700	-111.9530
40.6880	-111.9580
40.7000	-111.9660
40.7170	-111.9720
40.7340	-111.9880
40.7450	-111.9880
40.7970	-112.0170

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: W50G50 West Valley (Wasatch 50) fault (dip 50)
Region: USGS 2014 Utah
Category:Fault
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.28800000
Deterministic Magnitude: 6.5

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	6.793

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	3.597e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.600000	Activity	3.597e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.200000	Activity	3.597e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6580	-111.9500

40.6700	-111.9530
40.6880	-111.9580
40.7000	-111.9660
40.7170	-111.9720
40.7340	-111.9880
40.7450	-111.9880
40.7970	-112.0170

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: W35G50 West Valley (Wasatch 35) fault (dip 50)
Region: USGS 2014 Utah
Category:Fault
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.09600000
Deterministic Magnitude: 6.5

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	5.028

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	3.597e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.600000	Activity	3.597e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.200000	Activity	3.597e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6580	-111.9500
40.6700	-111.9530
40.6880	-111.9580
40.7000	-111.9660
40.7170	-111.9720
40.7340	-111.9880
40.7450	-111.9880
40.7970	-112.0170

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: W50G65 West Valley (Wasatch 50) fault (dip 65)
Region: USGS 2014 Utah
Category:Fault
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.09600000
Deterministic Magnitude: 6.5

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	8.733

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.2	Activity	3.597e-004	6.060000	6.540000	2.300000	6.300000	0.120000	0.010000	10.000000
Normal	0.600000	Activity	3.597e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.200000	Activity	3.597e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6580	-111.9500

```
    40.6700  -111.9530
    40.6880  -111.9580
    40.7000  -111.9660
    40.7170  -111.9720
    40.7340  -111.9880
    40.7450  -111.9880
    40.7970  -112.0170

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS 2014

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Name: W65G65 West Valley (Wasatch 65) fault (dip 65)
Region: USGS 2014 Utah
Category:Fault
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.03200000
Deterministic Magnitude: 6.5

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        65         0     0.001     12.22

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag      Beta      Mean     Sigma    Delta1    Delta2
           Normal       0.2    Activity  3.597e-004  6.060000  6.540000  2.300000  6.300000  0.120000  0.010000 10.000000
           Normal  0.600000    Activity  3.597e-004  6.260000  6.740000  2.300000  6.500000  0.120000  0.010000 10.000000
           Normal  0.200000    Activity  3.597e-004  6.460000  6.940000  2.300000  6.700000  0.120000  0.010000 10.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw      Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    40.6580  -111.9500
    40.6700  -111.9530
    40.6880  -111.9580
    40.7000  -111.9660
    40.7170  -111.9720
    40.7340  -111.9880
    40.7450  -111.9880
    40.7970  -112.0170

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS 2014

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Name: W35G65 West Valley (Wasatch 35) fault (dip 65)
Region: USGS 2014 Utah
Category:Fault
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.03200000
Deterministic Magnitude: 6.5

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        65         0     0.001      6.018

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag      Beta      Mean     Sigma    Delta1    Delta2
           Normal       0.2    Activity  3.597e-004  6.060000  6.540000  2.300000  6.300000  0.120000  0.010000 10.000000
           Normal  0.600000    Activity  3.597e-004  6.260000  6.740000  2.300000  6.500000  0.120000  0.010000 10.000000
           Normal  0.200000    Activity  3.597e-004  6.460000  6.940000  2.300000  6.700000  0.120000  0.010000 10.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw      Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    40.6580  -111.9500
```

40.6700	-111.9530
40.6880	-111.9580
40.7000	-111.9660
40.7170	-111.9720
40.7340	-111.9880
40.7450	-111.9880
40.7970	-112.0170

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

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Name: Great Salt Lake fault zone, Antelope Island [2369c]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forGreat Salt Lake fault zone, Antelope Island [2369c] -------
Name: 2369c Great Salt Lake fault zone, Antelope Island (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.93

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.215e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.890000	7.370000	2.300000	7.130000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	3.180e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	5.038e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	6.323e-004	6.500000	7.130000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.215e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.215e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.215e-004	6.890000	7.370000	2.300000	7.130000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	3.180e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	5.038e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	6.323e-004	6.500000	7.130000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.215e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.890000	7.370000	2.300000	7.130000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	3.180e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	5.038e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	6.323e-004	6.500000	7.130000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.0344	-112.3197
41.0122	-112.3019
40.9891	-112.2656
40.9661	-112.2723
40.9444	-112.2699
40.8702	-112.2372
40.8545	-112.2170
40.8191	-112.1844
40.7938	-112.1956
40.7505	-112.2043

40.7340	-112.2145
40.7239	-112.2305

Name: 2369c Great Salt Lake fault zone, Antelope Island (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.93

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.215e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.890000	7.370000	2.300000	7.130000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	3.180e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	5.038e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	6.323e-004	6.500000	7.130000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.215e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.215e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.215e-004	6.890000	7.370000	2.300000	7.130000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	3.180e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	5.038e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	6.323e-004	6.500000	7.130000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.215e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.890000	7.370000	2.300000	7.130000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	3.180e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	5.038e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	6.323e-004	6.500000	7.130000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.0344	-112.3197
41.0122	-112.3019
40.9891	-112.2656
40.9661	-112.2723
40.9444	-112.2699
40.8702	-112.2372
40.8545	-112.2170
40.8191	-112.1844
40.7938	-112.1956
40.7505	-112.2043
40.7340	-112.2145
40.7239	-112.2305

Name: 2369c Great Salt Lake fault zone, Antelope Island (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.93

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.215e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.890000	7.370000	2.300000	7.130000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	3.180e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000

Exponential	0.019998	Activity	5.038e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	6.323e-004	6.500000	7.130000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.215e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.215e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.215e-004	6.890000	7.370000	2.300000	7.130000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	3.180e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	5.038e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	6.323e-004	6.500000	7.130000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.215e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.890000	7.370000	2.300000	7.130000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	3.180e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	5.038e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	6.323e-004	6.500000	7.130000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.0344	-112.3197
41.0122	-112.3019
40.9891	-112.2656
40.9661	-112.2723
40.9444	-112.2699
40.8702	-112.2372
40.8545	-112.2170
40.8191	-112.1844
40.7938	-112.1956
40.7505	-112.2043
40.7340	-112.2145
40.7239	-112.2305

------ End Nested Sources for Great Salt Lake fault zone, Antelope Island [2369c] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Great Salt Lake fault zone, Fremont Island s [2369b]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forGreat Salt Lake fault zone, Fremont Island s [2369b] -------
Name: 2369b Great Salt Lake fault zone, Fremont Island s (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.83

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.215e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.976e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.226e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.783e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.215e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000

Normal	0.319998	Activity	2.215e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.215e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.976e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	4.226e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	5.783e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.215e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.976e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.226e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.783e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.2100	-112.5219
41.1992	-112.5202
41.1783	-112.4922
41.1713	-112.4527
41.1616	-112.4409
41.1515	-112.4141
41.0932	-112.3645
41.0601	-112.3545
41.0260	-112.3274
41.0036	-112.3192
40.9927	-112.3061

Name: 2369b Great Salt Lake fault zone, Fremont Island s (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.83

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.215e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.976e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.226e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.783e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.215e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.215e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.215e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.976e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	4.226e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	5.783e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.215e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.976e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.226e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.783e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.2100	-112.5219
41.1992	-112.5202
41.1783	-112.4922
41.1713	-112.4527
41.1616	-112.4409
41.1515	-112.4141
41.0932	-112.3645
41.0601	-112.3545
41.0260	-112.3274
41.0036	-112.3192
40.9927	-112.3061

Name: 2369b Great Salt Lake fault zone, Fremont Island s (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.83

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.215e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.976e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.226e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.783e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.215e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.215e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.215e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.976e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	4.226e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	5.783e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.215e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.976e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.226e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.783e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.2100	-112.5219
41.1992	-112.5202
41.1783	-112.4922
41.1713	-112.4527
41.1616	-112.4409
41.1515	-112.4141
41.0932	-112.3645
41.0601	-112.3545
41.0260	-112.3274

```
    41.0036  -112.3192
    40.9927  -112.3061

 ------ End Nested Sources for Great Salt Lake fault zone, Fremont Island s [2369b] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS 2014

*****************************************

Name: Wasatch fault, Brigham City section [2351d]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forWasatch fault, Brigham City section [2351d] -------
Name: 2351d Wasatch fault, Brigham City section (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.18000036
Deterministic Magnitude: 6.95

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag      Beta      Mean     Sigma    Delta1    Delta2
           Normal 0.0160008    Activity  8.460e-004  6.510000  6.990000  2.300000  6.750000  0.120000  0.010000 10.000000
           Normal  0.048002    Activity  8.460e-004  6.710000  7.190000  2.300000  6.950000  0.120000  0.010000 10.000000
           Normal  0.016001    Activity  8.460e-004  6.910000  7.390000  2.300000  7.150000  0.120000  0.010000 10.000000
      Exponential  0.004000    Activity  1.305e-003  6.500000  6.750000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.011999    Activity  1.993e-003  6.500000  6.950000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.004000    Activity  2.469e-003  6.500000  7.150000  1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.127999    Activity  8.460e-004  6.510000  6.990000  2.300000  6.750000  0.120000  0.010000 10.000000
           Normal  0.383997    Activity  8.460e-004  6.710000  7.190000  2.300000  6.950000  0.120000  0.010000 10.000000
           Normal  0.127999    Activity  8.460e-004  6.910000  7.390000  2.300000  7.150000  0.120000  0.010000 10.000000
      Exponential  0.032000    Activity  1.305e-003  6.500000  6.750000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.096001    Activity  1.993e-003  6.500000  6.950000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.032000    Activity  2.469e-003  6.500000  7.150000  1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.016001    Activity  8.460e-004  6.510000  6.990000  2.300000  6.750000  0.120000  0.010000 10.000000
           Normal  0.048002    Activity  8.460e-004  6.710000  7.190000  2.300000  6.950000  0.120000  0.010000 10.000000
           Normal  0.016001    Activity  8.460e-004  6.910000  7.390000  2.300000  7.150000  0.120000  0.010000 10.000000
      Exponential  0.004000    Activity  1.305e-003  6.500000  6.750000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.011999    Activity  1.993e-003  6.500000  6.950000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.004000    Activity  2.469e-003  6.500000  7.150000  1.842068  0.000000  0.000000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw      Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    41.6521  -112.0483
    41.6404  -112.0607
    41.6306  -112.0553
    41.6164  -112.0561
    41.6106  -112.0420
    41.5602  -112.0179
    41.5542  -112.0199
    41.5235  -111.9987
    41.4992  -111.9887
    41.4436  -112.0293
    41.4277  -112.0290
    41.4166  -112.0217
    41.3807  -112.0254
```

41.3589	-111.9886
41.3333	-111.9614

Name: 2351d Wasatch fault, Brigham City section (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.54000108
Deterministic Magnitude: 6.95

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	8.460e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	8.460e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	8.460e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.305e-003	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	1.993e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	2.469e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	8.460e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	8.460e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	8.460e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	1.305e-003	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	1.993e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	2.469e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	8.460e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	8.460e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	8.460e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.305e-003	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	1.993e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	2.469e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.6521	-112.0483
41.6404	-112.0607
41.6306	-112.0553
41.6164	-112.0561
41.6106	-112.0420
41.5602	-112.0179
41.5542	-112.0199
41.5235	-111.9987
41.4992	-111.9887
41.4436	-112.0293
41.4277	-112.0290
41.4166	-112.0217
41.3807	-112.0254
41.3589	-111.9886
41.3333	-111.9614

Name: 2351d Wasatch fault, Brigham City section (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.18000036
Deterministic Magnitude: 6.95

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	8.460e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000

Normal	0.048002	Activity	8.460e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	8.460e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.305e-003	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	1.993e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	2.469e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	8.460e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	8.460e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	8.460e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	1.305e-003	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	1.993e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	2.469e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	8.460e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	8.460e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	8.460e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.305e-003	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	1.993e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	2.469e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.6521	-112.0483
41.6404	-112.0607
41.6306	-112.0553
41.6164	-112.0561
41.6106	-112.0420
41.5602	-112.0179
41.5542	-112.0199
41.5235	-111.9987
41.4992	-111.9887
41.4436	-112.0293
41.4277	-112.0290
41.4166	-112.0217
41.3807	-112.0254
41.3589	-111.9886
41.3333	-111.9614

------ End Nested Sources for Wasatch fault, Brigham City section [2351d] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Oquirrh-Southern Oquirrh Mountains fault [2398_2399]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forOquirrh-Southern Oquirrh Mountains fault [2398_2399] -------
Name: 2398_2399 Oquirrh-Southern Oquirrh Mountains fault (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.17

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.414e-004	6.730000	7.210000	2.300000	6.970000	0.120000	0.010000	10.000000

Normal	0.040002	Activity	1.414e-004	6.930000	7.410000	2.300000	7.170000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.414e-004	7.130000	7.610000	2.300000	7.370000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	4.010e-004	6.500000	6.970000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.907e-004	6.500000	7.170000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.528e-004	6.500000	7.370000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.419e-004	6.730000	7.210000	2.300000	6.970000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.419e-004	6.930000	7.410000	2.300000	7.170000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.419e-004	7.130000	7.610000	2.300000	7.370000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	4.026e-004	6.500000	6.970000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	4.927e-004	6.500000	7.170000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	5.551e-004	6.500000	7.370000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.794e-004	6.730000	7.210000	2.300000	6.970000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.794e-004	6.930000	7.410000	2.300000	7.170000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.794e-004	7.130000	7.610000	2.300000	7.370000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.089e-004	6.500000	6.970000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.228e-004	6.500000	7.170000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.016e-004	6.500000	7.370000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6947	-112.2540
40.6861	-112.2474
40.6529	-112.2449
40.6496	-112.2553
40.6411	-112.2570
40.6379	-112.2638
40.6314	-112.2596
40.6046	-112.2578
40.5554	-112.2011
40.5443	-112.2011
40.5352	-112.2398
40.5177	-112.2586
40.5007	-112.3051
40.4598	-112.3455
40.4019	-112.3177
40.3090	-112.2756
40.2705	-112.2590
40.2288	-112.2239

Name: 2398_2399 Oquirrh-Southern Oquirrh Mountains fault (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.17

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.414e-004	6.730000	7.210000	2.300000	6.970000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.414e-004	6.930000	7.410000	2.300000	7.170000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.414e-004	7.130000	7.610000	2.300000	7.370000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	4.010e-004	6.500000	6.970000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.907e-004	6.500000	7.170000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.528e-004	6.500000	7.370000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.419e-004	6.730000	7.210000	2.300000	6.970000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.419e-004	6.930000	7.410000	2.300000	7.170000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.419e-004	7.130000	7.610000	2.300000	7.370000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	4.026e-004	6.500000	6.970000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	4.927e-004	6.500000	7.170000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	5.551e-004	6.500000	7.370000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.794e-004	6.730000	7.210000	2.300000	6.970000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.794e-004	6.930000	7.410000	2.300000	7.170000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.794e-004	7.130000	7.610000	2.300000	7.370000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.089e-004	6.500000	6.970000	1.842068	0.000000	0.000000	0.000000	0.000000

Exponential	0.019998	Activity	6.228e-004	6.500000	7.170000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.016e-004	6.500000	7.370000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6947	-112.2540
40.6861	-112.2474
40.6529	-112.2449
40.6496	-112.2553
40.6411	-112.2570
40.6379	-112.2638
40.6314	-112.2596
40.6046	-112.2578
40.5554	-112.2011
40.5443	-112.2011
40.5352	-112.2398
40.5177	-112.2586
40.5007	-112.3051
40.4598	-112.3455
40.4019	-112.3177
40.3090	-112.2756
40.2705	-112.2590
40.2288	-112.2239

Name: 2398_2399 Oquirrh-Southern Oquirrh Mountains fault (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.17

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.414e-004	6.730000	7.210000	2.300000	6.970000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.414e-004	6.930000	7.410000	2.300000	7.170000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.414e-004	7.130000	7.610000	2.300000	7.370000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	4.010e-004	6.500000	6.970000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.907e-004	6.500000	7.170000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.528e-004	6.500000	7.370000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.419e-004	6.730000	7.210000	2.300000	6.970000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.419e-004	6.930000	7.410000	2.300000	7.170000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.419e-004	7.130000	7.610000	2.300000	7.370000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	4.026e-004	6.500000	6.970000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	4.927e-004	6.500000	7.170000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	5.551e-004	6.500000	7.370000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.794e-004	6.730000	7.210000	2.300000	6.970000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.794e-004	6.930000	7.410000	2.300000	7.170000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.794e-004	7.130000	7.610000	2.300000	7.370000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.089e-004	6.500000	6.970000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.228e-004	6.500000	7.170000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.016e-004	6.500000	7.370000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6947	-112.2540
40.6861	-112.2474
40.6529	-112.2449
40.6496	-112.2553
40.6411	-112.2570
40.6379	-112.2638
40.6314	-112.2596
40.6046	-112.2578
40.5554	-112.2011
40.5443	-112.2011
40.5352	-112.2398
40.5177	-112.2586
40.5007	-112.3051
40.4598	-112.3455
40.4019	-112.3177
40.3090	-112.2756
40.2705	-112.2590
40.2288	-112.2239

------ End Nested Sources for Oquirrh-Southern Oquirrh Mountains fault [2398_2399] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: East Cache fault zone [2352abc]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forEast Cache fault zone [2352abc] -------
Name: 2352abc East Cache fault zone (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.31

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.537e-004	6.870000	7.350000	2.300000	7.110000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.537e-004	7.070000	7.550000	2.300000	7.310000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.537e-004	7.270000	7.750000	2.300000	7.510000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.955e-004	6.500000	7.110000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.839e-004	6.500000	7.310000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.450e-004	6.500000	7.510000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.146e-004	6.870000	7.350000	2.300000	7.110000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.146e-004	7.070000	7.550000	2.300000	7.310000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.146e-004	7.270000	7.750000	2.300000	7.510000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	4.442e-004	6.500000	7.110000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	5.101e-004	6.500000	7.310000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	5.557e-004	6.500000	7.510000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.229e-004	6.870000	7.350000	2.300000	7.110000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.229e-004	7.070000	7.550000	2.300000	7.310000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.229e-004	7.270000	7.750000	2.300000	7.510000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	4.764e-004	6.500000	7.110000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	5.471e-004	6.500000	7.310000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.960e-004	6.500000	7.510000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
42.1322	-111.6970
42.0494	-111.7307
42.0006	-111.7371
41.9750	-111.7633
41.9328	-111.7882
41.9140	-111.7946
41.9094	-111.7904
41.8948	-111.7919
41.8801	-111.8031
41.8757	-111.8154
41.8311	-111.7915
41.7802	-111.7761
41.7435	-111.7917
41.6407	-111.8064
41.6172	-111.7998
41.5942	-111.7844
41.4999	-111.7761
41.4475	-111.7604
41.4208	-111.7646

Name: 2352abc East Cache fault zone (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.31

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.537e-004	6.870000	7.350000	2.300000	7.110000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.537e-004	7.070000	7.550000	2.300000	7.310000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.537e-004	7.270000	7.750000	2.300000	7.510000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.955e-004	6.500000	7.110000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.839e-004	6.500000	7.310000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.450e-004	6.500000	7.510000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.146e-004	6.870000	7.350000	2.300000	7.110000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.146e-004	7.070000	7.550000	2.300000	7.310000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.146e-004	7.270000	7.750000	2.300000	7.510000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	4.442e-004	6.500000	7.110000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	5.101e-004	6.500000	7.310000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	5.557e-004	6.500000	7.510000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.229e-004	6.870000	7.350000	2.300000	7.110000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.229e-004	7.070000	7.550000	2.300000	7.310000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.229e-004	7.270000	7.750000	2.300000	7.510000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	4.764e-004	6.500000	7.110000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	5.471e-004	6.500000	7.310000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.960e-004	6.500000	7.510000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude

42.1322	-111.6970
42.0494	-111.7307
42.0006	-111.7371
41.9750	-111.7633
41.9328	-111.7882
41.9140	-111.7946
41.9094	-111.7904
41.8948	-111.7919
41.8801	-111.8031
41.8757	-111.8154
41.8311	-111.7915
41.7802	-111.7761
41.7435	-111.7917
41.6407	-111.8064
41.6172	-111.7998
41.5942	-111.7844
41.4999	-111.7761
41.4475	-111.7604
41.4208	-111.7646

Name: 2352abc East Cache fault zone (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.31

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.537e-004	6.870000	7.350000	2.300000	7.110000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.537e-004	7.070000	7.550000	2.300000	7.310000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.537e-004	7.270000	7.750000	2.300000	7.510000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.955e-004	6.500000	7.110000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.839e-004	6.500000	7.310000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.450e-004	6.500000	7.510000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.146e-004	6.870000	7.350000	2.300000	7.110000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.146e-004	7.070000	7.550000	2.300000	7.310000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.146e-004	7.270000	7.750000	2.300000	7.510000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	4.442e-004	6.500000	7.110000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	5.101e-004	6.500000	7.310000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	5.557e-004	6.500000	7.510000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.229e-004	6.870000	7.350000	2.300000	7.110000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.229e-004	7.070000	7.550000	2.300000	7.310000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.229e-004	7.270000	7.750000	2.300000	7.510000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	4.764e-004	6.500000	7.110000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	5.471e-004	6.500000	7.310000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.960e-004	6.500000	7.510000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
42.1322	-111.6970
42.0494	-111.7307
42.0006	-111.7371
41.9750	-111.7633
41.9328	-111.7882
41.9140	-111.7946
41.9094	-111.7904
41.8948	-111.7919
41.8801	-111.8031
41.8757	-111.8154
41.8311	-111.7915
41.7802	-111.7761
41.7435	-111.7917
41.6407	-111.8064

41.6172	-111.7998
41.5942	-111.7844
41.4999	-111.7761
41.4475	-111.7604
41.4208	-111.7646

------ End Nested Sources for East Cache fault zone [2352abc] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Great Salt Lake fault zone, Promontory secti [2369a]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forGreat Salt Lake fault zone, Promontory secti [2369a] -------
Name: 2369a Great Salt Lake fault zone, Promontory secti (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.215e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.164e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.677e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.725e-004	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.215e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.215e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.215e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	5.164e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	6.677e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	7.725e-004	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.215e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.164e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.677e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.725e-004	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.5341	-112.8363
41.4934	-112.8040
41.4674	-112.7756
41.4357	-112.7050
41.3982	-112.6553
41.3881	-112.5763
41.3755	-112.5474
41.3464	-112.5337
41.3244	-112.5135
41.2631	-112.5126

41.2369	-112.5029
41.2149	-112.4902
41.1918	-112.4588

Name: 2369a Great Salt Lake fault zone, Promontory secti (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.215e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.164e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.677e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.725e-004	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.215e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.215e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.215e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	5.164e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	6.677e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	7.725e-004	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.215e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.164e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.677e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.725e-004	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.5341	-112.8363
41.4934	-112.8040
41.4674	-112.7756
41.4357	-112.7050
41.3982	-112.6553
41.3881	-112.5763
41.3755	-112.5474
41.3464	-112.5337
41.3244	-112.5135
41.2631	-112.5126
41.2369	-112.5029
41.2149	-112.4902
41.1918	-112.4588

Name: 2369a Great Salt Lake fault zone, Promontory secti (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.215e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000

Normal	0.013334	Activity	2.215e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.164e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.677e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.725e-004	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.215e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.215e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.215e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	5.164e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	6.677e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	7.725e-004	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.215e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.215e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.215e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.164e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	6.677e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	7.725e-004	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.5341	-112.8363
41.4934	-112.8040
41.4674	-112.7756
41.4357	-112.7050
41.3982	-112.6553
41.3881	-112.5763
41.3755	-112.5474
41.3464	-112.5337
41.3244	-112.5135
41.2631	-112.5126
41.2369	-112.5029
41.2149	-112.4902
41.1918	-112.4588

------ End Nested Sources for Great Salt Lake fault zone, Promontory secti [2369a] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Wasatch fault, Provo section [2351g]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forWasatch fault, Provo section [2351g] -------
Name: 2351g Wasatch fault, Provo section (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.18000036
Deterministic Magnitude: 7.27

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	7.157e-004	6.830000	7.310000	2.300000	7.070000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	7.157e-004	7.030000	7.510000	2.300000	7.270000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	7.157e-004	7.230000	7.710000	2.300000	7.470000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	2.545e-003	6.500000	7.070000	1.842068	0.000000	0.000000	0.000000	0.000000

Exponential	0.011999	Activity	2.967e-003	6.500000	7.270000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.260e-003	6.500000	7.470000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	7.157e-004	6.830000	7.310000	2.300000	7.070000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	7.157e-004	7.030000	7.510000	2.300000	7.270000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	7.157e-004	7.230000	7.710000	2.300000	7.470000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	2.545e-003	6.500000	7.070000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	2.967e-003	6.500000	7.270000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	3.260e-003	6.500000	7.470000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	7.157e-004	6.830000	7.310000	2.300000	7.070000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	7.157e-004	7.030000	7.510000	2.300000	7.270000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	7.157e-004	7.230000	7.710000	2.300000	7.470000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	2.545e-003	6.500000	7.070000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.967e-003	6.500000	7.270000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.260e-003	6.500000	7.470000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.4950	-111.8217
40.4857	-111.7538
40.4812	-111.7467
40.4760	-111.7445
40.4602	-111.7506
40.4554	-111.7463
40.4448	-111.7533
40.4343	-111.7531
40.4152	-111.7418
40.4110	-111.7436
40.3977	-111.7275
40.3845	-111.7206
40.3538	-111.6916
40.3418	-111.6761
40.3131	-111.6569
40.3119	-111.6384
40.2877	-111.6321
40.2780	-111.6353
40.2344	-111.6316
40.2122	-111.6240
40.2092	-111.6170
40.1946	-111.6092
40.1895	-111.5991
40.1726	-111.5971
40.1671	-111.5816
40.1489	-111.5558
40.1330	-111.5508
40.1273	-111.5583
40.1212	-111.5559
40.1005	-111.5717
40.0842	-111.5727
40.0716	-111.6188
40.0486	-111.6353
40.0325	-111.6314
40.0062	-111.6436
39.9865	-111.6893
39.9716	-111.6933

Name: 2351g Wasatch fault, Provo section (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.54000108
Deterministic Magnitude: 7.27

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2

Normal	0.0160008	Activity	7.157e-004	6.830000	7.310000	2.300000	7.070000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	7.157e-004	7.030000	7.510000	2.300000	7.270000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	7.157e-004	7.230000	7.710000	2.300000	7.470000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	2.545e-003	6.500000	7.070000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.967e-003	6.500000	7.270000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.260e-003	6.500000	7.470000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	7.157e-004	6.830000	7.310000	2.300000	7.070000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	7.157e-004	7.030000	7.510000	2.300000	7.270000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	7.157e-004	7.230000	7.710000	2.300000	7.470000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	2.545e-003	6.500000	7.070000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	2.967e-003	6.500000	7.270000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	3.260e-003	6.500000	7.470000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	7.157e-004	6.830000	7.310000	2.300000	7.070000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	7.157e-004	7.030000	7.510000	2.300000	7.270000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	7.157e-004	7.230000	7.710000	2.300000	7.470000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	2.545e-003	6.500000	7.070000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.967e-003	6.500000	7.270000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.260e-003	6.500000	7.470000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.4950	-111.8217
40.4857	-111.7538
40.4812	-111.7467
40.4760	-111.7445
40.4602	-111.7506
40.4554	-111.7463
40.4448	-111.7533
40.4343	-111.7531
40.4152	-111.7418
40.4110	-111.7436
40.3977	-111.7275
40.3845	-111.7206
40.3538	-111.6916
40.3418	-111.6761
40.3131	-111.6569
40.3119	-111.6384
40.2877	-111.6321
40.2780	-111.6353
40.2344	-111.6316
40.2122	-111.6240
40.2092	-111.6170
40.1946	-111.6092
40.1895	-111.5991
40.1726	-111.5971
40.1671	-111.5816
40.1489	-111.5558
40.1330	-111.5508
40.1273	-111.5583
40.1212	-111.5559
40.1005	-111.5717
40.0842	-111.5727
40.0716	-111.6188
40.0486	-111.6353
40.0325	-111.6314
40.0062	-111.6436
39.9865	-111.6893
39.9716	-111.6933

Name: 2351g Wasatch fault, Provo section (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.18000036
Deterministic Magnitude: 7.27

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3

90 65 0 0.001 15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	7.157e-004	6.830000	7.310000	2.300000	7.070000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	7.157e-004	7.030000	7.510000	2.300000	7.270000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	7.157e-004	7.230000	7.710000	2.300000	7.470000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	2.545e-003	6.500000	7.070000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.967e-003	6.500000	7.270000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.260e-003	6.500000	7.470000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	7.157e-004	6.830000	7.310000	2.300000	7.070000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	7.157e-004	7.030000	7.510000	2.300000	7.270000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	7.157e-004	7.230000	7.710000	2.300000	7.470000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	2.545e-003	6.500000	7.070000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	2.967e-003	6.500000	7.270000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	3.260e-003	6.500000	7.470000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	7.157e-004	6.830000	7.310000	2.300000	7.070000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	7.157e-004	7.030000	7.510000	2.300000	7.270000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	7.157e-004	7.230000	7.710000	2.300000	7.470000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	2.545e-003	6.500000	7.070000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.967e-003	6.500000	7.270000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.260e-003	6.500000	7.470000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.4950	-111.8217
40.4857	-111.7538
40.4812	-111.7467
40.4760	-111.7445
40.4602	-111.7506
40.4554	-111.7463
40.4448	-111.7533
40.4343	-111.7531
40.4152	-111.7418
40.4110	-111.7436
40.3977	-111.7275
40.3845	-111.7206
40.3538	-111.6916
40.3418	-111.6761
40.3131	-111.6569
40.3119	-111.6384
40.2877	-111.6321
40.2780	-111.6353
40.2344	-111.6316
40.2122	-111.6240
40.2092	-111.6170
40.1946	-111.6092
40.1895	-111.5991
40.1726	-111.5971
40.1671	-111.5816
40.1489	-111.5558
40.1330	-111.5508
40.1273	-111.5583
40.1212	-111.5559
40.1005	-111.5717
40.0842	-111.5727
40.0716	-111.6188
40.0486	-111.6353
40.0325	-111.6314
40.0062	-111.6436
39.9865	-111.6893
39.9716	-111.6933

------ End Nested Sources for Wasatch fault, Provo section [2351g] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014

0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: West Cache fault, Wellsville section [2521c]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forWest Cache fault, Wellsville section [2521c] -------
Name: 2521c West Cache fault, Wellsville section (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.6

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	8.896e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	8.896e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	8.896e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	1.138e-003	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.635e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.635e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.635e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	2.091e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.879e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.879e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.879e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	2.403e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.5797	-111.8761
41.6012	-111.9189
41.6249	-111.9523
41.6897	-112.0002
41.6966	-112.0106
41.7210	-112.0237

Name: 2521c West Cache fault, Wellsville section (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.6

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	8.896e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	8.896e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	8.896e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	1.138e-003	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.635e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.635e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.635e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	2.091e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.879e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.879e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.879e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	2.403e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.5797	-111.8761
41.6012	-111.9189
41.6249	-111.9523
41.6897	-112.0002
41.6966	-112.0106
41.7210	-112.0237

Name: 2521c West Cache fault, Wellsville section (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.6

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	8.896e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	8.896e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	8.896e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	1.138e-003	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.635e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.635e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.635e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	2.091e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.879e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.879e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.879e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	2.403e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.5797	-111.8761
41.6012	-111.9189
41.6249	-111.9523
41.6897	-112.0002
41.6966	-112.0106
41.7210	-112.0237

------ End Nested Sources for West Cache fault, Wellsville section [2521c] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Stansbury fault zone [2395]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb

Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forStansbury fault zone [2395] -------
Name: 2395 Stansbury fault zone (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.114e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.114e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.114e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	7.260e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	9.388e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.086e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	3.189e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	3.189e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	3.189e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	7.433e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	9.612e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.112e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	3.603e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.603e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.603e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	8.398e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.086e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.256e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6895	-112.6602
40.5940	-112.6842
40.5422	-112.6720
40.5348	-112.6651
40.5016	-112.6853
40.4755	-112.6931
40.4310	-112.6795
40.4244	-112.6811
40.3946	-112.6658
40.2761	-112.5462
40.2501	-112.5260

Name: 2395 Stansbury fault zone (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.114e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.114e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.114e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	7.260e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	9.388e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000

Exponential	0.006666	Activity	1.086e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	3.189e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	3.189e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	3.189e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	7.433e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	9.612e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.112e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	3.603e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.603e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.603e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	8.398e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.086e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.256e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6895	-112.6602
40.5940	-112.6842
40.5422	-112.6720
40.5348	-112.6651
40.5016	-112.6853
40.4755	-112.6931
40.4310	-112.6795
40.4244	-112.6811
40.3946	-112.6658
40.2761	-112.5462
40.2501	-112.5260

Name: 2395 Stansbury fault zone (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.114e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.114e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.114e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	7.260e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	9.388e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.086e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	3.189e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	3.189e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	3.189e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	7.433e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	9.612e-004	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.112e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	3.603e-004	6.650000	7.130000	2.300000	6.890000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.603e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.603e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	8.398e-004	6.500000	6.890000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.086e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.256e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.6895	-112.6602
40.5940	-112.6842
40.5422	-112.6720
40.5348	-112.6651
40.5016	-112.6853
40.4755	-112.6931
40.4310	-112.6795
40.4244	-112.6811
40.3946	-112.6658
40.2761	-112.5462
40.2501	-112.5260

------ End Nested Sources for Stansbury fault zone [2395] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

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Name: Bear River fault zone [730]
Region: USGS 2014 Wyoming
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forBear River fault zone [730] -------
Name: 730 Bear River fault zone (dip 35)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.9

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	4.049e-004	6.460000	6.940000	0.000000	6.700000	0.120000	0.000000	0.000000
Normal	0.040002	Activity	4.049e-004	6.660000	7.140000	0.000000	6.900000	0.120000	0.000000	0.000000
Normal	0.013334	Activity	4.049e-004	6.860000	7.340000	0.000000	7.100000	0.120000	0.000000	0.000000
Exponential	0.006666	Activity	5.163e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	8.735e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.121e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	4.049e-004	6.460000	6.940000	0.000000	6.700000	0.120000	0.000000	0.000000
Normal	0.319998	Activity	4.049e-004	6.660000	7.140000	0.000000	6.900000	0.120000	0.000000	0.000000
Normal	0.106666	Activity	4.049e-004	6.860000	7.340000	0.000000	7.100000	0.120000	0.000000	0.000000
Exponential	0.053334	Activity	5.163e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	8.735e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.121e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	4.049e-004	6.460000	6.940000	0.000000	6.700000	0.120000	0.000000	0.000000
Normal	0.040002	Activity	4.049e-004	6.660000	7.140000	0.000000	6.900000	0.120000	0.000000	0.000000
Normal	0.013334	Activity	4.049e-004	6.860000	7.340000	0.000000	7.100000	0.120000	0.000000	0.000000
Exponential	0.006666	Activity	5.163e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	8.735e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.121e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.1603	-110.7523
41.1343	-110.7642
41.0832	-110.7729
41.0739	-110.7946
41.0515	-110.7939
41.0313	-110.7995
41.0007	-110.7916
40.9898	-110.7983
40.9648	-110.8012
40.9256	-110.7934
40.9174	-110.7997
40.9008	-110.8012
40.8603	-110.7900
40.8445	-110.8045

Name: 730 Bear River fault zone (dip 50)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.9

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	4.049e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	4.049e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	4.049e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.163e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	8.735e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.121e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	4.049e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	4.049e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	4.049e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	5.163e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	8.735e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.121e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	4.049e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	4.049e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	4.049e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.163e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	8.735e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.121e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.1603	-110.7523
41.1343	-110.7642
41.0832	-110.7729
41.0739	-110.7946
41.0515	-110.7939
41.0313	-110.7995
41.0007	-110.7916
40.9898	-110.7983

40.9648	-110.8012
40.9256	-110.7934
40.9174	-110.7997
40.9008	-110.8012
40.8603	-110.7900
40.8445	-110.8045

Name: 730 Bear River fault zone (dip 65)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.9

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	4.049e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	4.049e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	4.049e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.163e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	8.735e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.121e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	4.049e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	4.049e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	4.049e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	5.163e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	8.735e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.121e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	4.049e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	4.049e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	4.049e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	5.163e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	8.735e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.121e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.1603	-110.7523
41.1343	-110.7642
41.0832	-110.7729
41.0739	-110.7946
41.0515	-110.7939
41.0313	-110.7995
41.0007	-110.7916
40.9898	-110.7983
40.9648	-110.8012
40.9256	-110.7934
40.9174	-110.7997
40.9008	-110.8012
40.8603	-110.7900
40.8445	-110.8045

------ End Nested Sources for Bear River fault zone [730] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: West Cache fault zone, Junction Hills fault [2521b]

Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forWest Cache fault zone, Junction Hills fault [2521b] -------
Name: 2521b West Cache fault zone, Junction Hills fault (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.7

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.163e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.163e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.163e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	3.291e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.824e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.824e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.824e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	4.296e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.813e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.813e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.813e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	4.279e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.6940	-111.9503
41.7139	-111.9681
41.7506	-111.9809
41.7714	-111.9894
41.7853	-111.9942
41.7906	-111.9962
41.7940	-111.9959
41.7941	-111.9959
41.7978	-111.9984
41.8165	-112.0175
41.8497	-112.0452
41.8792	-112.0498
41.8894	-112.0569
41.8958	-112.0655

Name: 2521b West Cache fault zone, Junction Hills fault (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.7

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.163e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.163e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.163e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	3.291e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.824e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.824e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.824e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	4.296e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.813e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.813e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.813e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000

Exponential	0.033330	Activity	4.279e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.6940	-111.9503
41.7139	-111.9681
41.7506	-111.9809
41.7714	-111.9894
41.7853	-111.9942
41.7906	-111.9962
41.7940	-111.9959
41.7941	-111.9959
41.7978	-111.9984
41.8165	-112.0175
41.8497	-112.0452
41.8792	-112.0498
41.8894	-112.0569
41.8958	-112.0655

Name: 2521b West Cache fault zone, Junction Hills fault (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.7

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	2.163e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.163e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.163e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	3.291e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.824e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.824e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.824e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	4.296e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.813e-004	6.260000	6.740000	2.300000	6.500000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.813e-004	6.460000	6.940000	2.300000	6.700000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.813e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	4.279e-004	6.500000	6.700000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.6940	-111.9503
41.7139	-111.9681
41.7506	-111.9809
41.7714	-111.9894
41.7853	-111.9942
41.7906	-111.9962
41.7940	-111.9959
41.7941	-111.9959
41.7978	-111.9984
41.8165	-112.0175
41.8497	-112.0452
41.8792	-112.0498

```
    41.8894  -112.0569
    41.8958  -112.0655

 ------ End Nested Sources for West Cache fault zone, Junction Hills fault [2521b] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS 2014

*****************************************

Name: Hansel Valley fault [2358]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forHansel Valley fault [2358] -------
Name: 2358 Hansel Valley fault (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.6

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag      Beta      Mean     Sigma    Delta1    Delta2
           Normal  0.013334    Activity  1.450e-004  6.160000  6.640000  2.300000  6.400000  0.120000  0.010000 10.000000
           Normal  0.040002    Activity  1.450e-004  6.360000  6.840000  2.300000  6.600000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity  1.450e-004  6.560000  7.040000  2.300000  6.800000  0.120000  0.010000 10.000000
      Exponential  0.033330    Activity  1.854e-004  6.500000  6.600000  1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.106666    Activity  1.262e-004  6.160000  6.640000  2.300000  6.400000  0.120000  0.010000 10.000000
           Normal  0.319998    Activity  1.262e-004  6.360000  6.840000  2.300000  6.600000  0.120000  0.010000 10.000000
           Normal  0.106666    Activity  1.262e-004  6.560000  7.040000  2.300000  6.800000  0.120000  0.010000 10.000000
      Exponential  0.266670    Activity  1.614e-004  6.500000  6.600000  1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.013334    Activity  1.289e-004  6.160000  6.640000  2.300000  6.400000  0.120000  0.010000 10.000000
           Normal  0.040002    Activity  1.289e-004  6.360000  6.840000  2.300000  6.600000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity  1.289e-004  6.560000  7.040000  2.300000  6.800000  0.120000  0.010000 10.000000
      Exponential  0.033330    Activity  1.648e-004  6.500000  6.600000  1.842068  0.000000  0.000000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw      Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    41.6839  -112.7564
    41.7102  -112.7494
    41.7393  -112.7335
    41.7809  -112.7292
    41.7981  -112.7214

Name: 2358 Hansel Valley fault (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.6

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        50         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag      Beta      Mean     Sigma    Delta1    Delta2
           Normal  0.013334    Activity  1.450e-004  6.160000  6.640000  2.300000  6.400000  0.120000  0.010000 10.000000
           Normal  0.040002    Activity  1.450e-004  6.360000  6.840000  2.300000  6.600000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity  1.450e-004  6.560000  7.040000  2.300000  6.800000  0.120000  0.010000 10.000000
      Exponential  0.033330    Activity  1.854e-004  6.500000  6.600000  1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.106666    Activity  1.262e-004  6.160000  6.640000  2.300000  6.400000  0.120000  0.010000 10.000000
```

Normal	0.319998	Activity	1.262e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.262e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	1.614e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.289e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.289e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.289e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	1.648e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.6839	-112.7564
41.7102	-112.7494
41.7393	-112.7335
41.7809	-112.7292
41.7981	-112.7214

Name: 2358 Hansel Valley fault (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.6

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.450e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.450e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.450e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	1.854e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.262e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.262e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.262e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	1.614e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.289e-004	6.160000	6.640000	2.300000	6.400000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.289e-004	6.360000	6.840000	2.300000	6.600000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.289e-004	6.560000	7.040000	2.300000	6.800000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	1.648e-004	6.500000	6.600000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.6839	-112.7564
41.7102	-112.7494
41.7393	-112.7335
41.7809	-112.7292
41.7981	-112.7214

------ End Nested Sources for Hansel Valley fault [2358] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Eastern Bear Lake fault [2364abc]
Region: USGS 2014 Idaho
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forEastern Bear Lake fault [2364abc] -------
Name: 2364abc Eastern Bear Lake fault (dip 35)
Region: USGS 2014 Idaho
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.29

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.064e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.064e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.064e-004	7.250000	7.730000	2.300000	7.490000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.138e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.316e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.440e-003	6.500000	7.490000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	3.581e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	3.581e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	3.581e-004	7.250000	7.730000	2.300000	7.490000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.330e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.539e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.683e-003	6.500000	7.490000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.972e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.972e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.972e-004	7.250000	7.730000	2.300000	7.490000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.104e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.277e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.397e-003	6.500000	7.490000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
42.4944	-111.3330
42.4654	-111.3120
42.4182	-111.2997
42.3989	-111.2812
42.3728	-111.2678
42.3473	-111.2694
42.3204	-111.2907
42.2846	-111.2914
42.2664	-111.2891
42.2039	-111.2654
42.1785	-111.2708
42.1537	-111.2631
42.1111	-111.2617
42.0685	-111.2492
42.0003	-111.2590
41.9478	-111.2779
41.8964	-111.2832
41.8756	-111.2947
41.8493	-111.2925
41.8336	-111.3088
41.8205	-111.3143
41.7969	-111.3083

Name: 2364abc Eastern Bear Lake fault (dip 50)
Region: USGS 2014 Idaho

Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.29

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.064e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.064e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.064e-004	7.250000	7.730000	2.300000	7.490000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.138e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.316e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.440e-003	6.500000	7.490000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	3.581e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	3.581e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	3.581e-004	7.250000	7.730000	2.300000	7.490000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.330e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.539e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.683e-003	6.500000	7.490000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.972e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.972e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.972e-004	7.250000	7.730000	2.300000	7.490000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.104e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.277e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.397e-003	6.500000	7.490000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
42.4944	-111.3330
42.4654	-111.3120
42.4182	-111.2997
42.3989	-111.2812
42.3728	-111.2678
42.3473	-111.2694
42.3204	-111.2907
42.2846	-111.2914
42.2664	-111.2891
42.2039	-111.2654
42.1785	-111.2708
42.1537	-111.2631
42.1111	-111.2617
42.0685	-111.2492
42.0003	-111.2590
41.9478	-111.2779
41.8964	-111.2832
41.8756	-111.2947
41.8493	-111.2925
41.8336	-111.3088
41.8205	-111.3143
41.7969	-111.3083

Name: 2364abc Eastern Bear Lake fault (dip 65)
Region: USGS 2014 Idaho
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.29

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.064e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.064e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.064e-004	7.250000	7.730000	2.300000	7.490000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.138e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.316e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.440e-003	6.500000	7.490000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	3.581e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	3.581e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	3.581e-004	7.250000	7.730000	2.300000	7.490000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.330e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.539e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.683e-003	6.500000	7.490000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.972e-004	6.850000	7.330000	2.300000	7.090000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.972e-004	7.050000	7.530000	2.300000	7.290000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.972e-004	7.250000	7.730000	2.300000	7.490000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.104e-003	6.500000	7.090000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.277e-003	6.500000	7.290000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.397e-003	6.500000	7.490000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
42.4944	-111.3330
42.4654	-111.3120
42.4182	-111.2997
42.3989	-111.2812
42.3728	-111.2678
42.3473	-111.2694
42.3204	-111.2907
42.2846	-111.2914
42.2664	-111.2891
42.2039	-111.2654
42.1785	-111.2708
42.1537	-111.2631
42.1111	-111.2617
42.0685	-111.2492
42.0003	-111.2590
41.9478	-111.2779
41.8964	-111.2832
41.8756	-111.2947
41.8493	-111.2925
41.8336	-111.3088
41.8205	-111.3143
41.7969	-111.3083

------ End Nested Sources for Eastern Bear Lake fault [2364abc] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: North Promontory fault [2361]
Region: USGS 2014 Nevada
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forNorth Promontory fault [2361] -------
Name: 2361 North Promontory fault (dip 35)
Region: USGS 2014 Nevada
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000

Deterministic Magnitude: 6.73

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	5.409e-004	6.290000	6.770000	2.300000	6.530000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.409e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.409e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.350e-004	6.500000	6.530000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	8.674e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.374e-003	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.716e-004	6.290000	6.770000	2.300000	6.530000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.716e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.716e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	6.780e-005	6.500000	6.530000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	4.355e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	6.899e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.600e-004	6.290000	6.770000	2.300000	6.530000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.600e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.600e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	6.492e-005	6.500000	6.530000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.170e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	6.606e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.9015	-112.5506
41.8792	-112.5502
41.8545	-112.5571
41.7889	-112.5556
41.7660	-112.5603
41.6991	-112.5944
41.6735	-112.6181

Name: 2361 North Promontory fault (dip 50)
Region: USGS 2014 Nevada
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.73

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	5.409e-004	6.290000	6.770000	2.300000	6.530000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.409e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.409e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.350e-004	6.500000	6.530000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	8.674e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.374e-003	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.716e-004	6.290000	6.770000	2.300000	6.530000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.716e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.716e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	6.780e-005	6.500000	6.530000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	4.355e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	6.899e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.600e-004	6.290000	6.770000	2.300000	6.530000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.600e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.600e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	6.492e-005	6.500000	6.530000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.170e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	6.606e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.9015	-112.5506
41.8792	-112.5502
41.8545	-112.5571
41.7889	-112.5556
41.7660	-112.5603
41.6991	-112.5944
41.6735	-112.6181

Name: 2361 North Promontory fault (dip 65)
Region: USGS 2014 Nevada
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.73

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	5.409e-004	6.290000	6.770000	2.300000	6.530000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.409e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.409e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.350e-004	6.500000	6.530000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	8.674e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.374e-003	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	2.716e-004	6.290000	6.770000	2.300000	6.530000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	2.716e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	2.716e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	6.780e-005	6.500000	6.530000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	4.355e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	6.899e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	2.600e-004	6.290000	6.770000	2.300000	6.530000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	2.600e-004	6.490000	6.970000	2.300000	6.730000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	2.600e-004	6.690000	7.170000	2.300000	6.930000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	6.492e-005	6.500000	6.530000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.170e-004	6.500000	6.730000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	6.606e-004	6.500000	6.930000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.9015	-112.5506
41.8792	-112.5502

41.8545	-112.5571
41.7889	-112.5556
41.7660	-112.5603
41.6991	-112.5944
41.6735	-112.6181

------ End Nested Sources for North Promontory fault [2361] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Strawberry fault [2412]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forStrawberry fault [2412] -------
Name: 2412 Strawberry fault (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.92

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.816e-004	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.816e-004	6.680000	7.160000	2.300000	6.920000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.816e-004	6.880000	7.360000	2.300000	7.120000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	2.510e-004	6.500000	6.720000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.057e-004	6.500000	6.920000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.128e-004	6.500000	7.120000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.030e-004	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.030e-004	6.680000	7.160000	2.300000	6.920000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.030e-004	6.880000	7.360000	2.300000	7.120000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.424e-004	6.500000	6.720000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	2.303e-004	6.500000	6.920000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	2.910e-004	6.500000	7.120000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.027e-004	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.027e-004	6.680000	7.160000	2.300000	6.920000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.027e-004	6.880000	7.360000	2.300000	7.120000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.418e-004	6.500000	6.720000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	2.293e-004	6.500000	6.920000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	2.898e-004	6.500000	7.120000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.2898	-111.2131
40.2892	-111.1854
40.2836	-111.1686
40.2573	-111.1420
40.2520	-111.1082
40.2380	-111.1039
40.2017	-111.1015
40.1678	-111.1149
40.1537	-111.1121
40.1433	-111.1199

40.1223	-111.1167
40.0904	-111.1429
40.0561	-111.1478
40.0075	-111.1393

Name: 2412 Strawberry fault (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.92

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.816e-004	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.816e-004	6.680000	7.160000	2.300000	6.920000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.816e-004	6.880000	7.360000	2.300000	7.120000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	2.510e-004	6.500000	6.720000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.057e-004	6.500000	6.920000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.128e-004	6.500000	7.120000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.030e-004	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.030e-004	6.680000	7.160000	2.300000	6.920000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.030e-004	6.880000	7.360000	2.300000	7.120000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.424e-004	6.500000	6.720000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	2.303e-004	6.500000	6.920000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	2.910e-004	6.500000	7.120000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.027e-004	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.027e-004	6.680000	7.160000	2.300000	6.920000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.027e-004	6.880000	7.360000	2.300000	7.120000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.418e-004	6.500000	6.720000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	2.293e-004	6.500000	6.920000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	2.898e-004	6.500000	7.120000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.2898	-111.2131
40.2892	-111.1854
40.2836	-111.1686
40.2573	-111.1420
40.2520	-111.1082
40.2380	-111.1039
40.2017	-111.1015
40.1678	-111.1149
40.1537	-111.1121
40.1433	-111.1199
40.1223	-111.1167
40.0904	-111.1429
40.0561	-111.1478
40.0075	-111.1393

Name: 2412 Strawberry fault (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.92

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2

Normal	0.013334	Activity	1.816e-004	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.816e-004	6.680000	7.160000	2.300000	6.920000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.816e-004	6.880000	7.360000	2.300000	7.120000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	2.510e-004	6.500000	6.720000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.057e-004	6.500000	6.920000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.128e-004	6.500000	7.120000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	1.030e-004	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	1.030e-004	6.680000	7.160000	2.300000	6.920000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	1.030e-004	6.880000	7.360000	2.300000	7.120000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.424e-004	6.500000	6.720000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	2.303e-004	6.500000	6.920000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	2.910e-004	6.500000	7.120000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.027e-004	6.480000	6.960000	2.300000	6.720000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.027e-004	6.680000	7.160000	2.300000	6.920000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.027e-004	6.880000	7.360000	2.300000	7.120000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.418e-004	6.500000	6.720000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	2.293e-004	6.500000	6.920000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	2.898e-004	6.500000	7.120000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.2898	-111.2131
40.2892	-111.1854
40.2836	-111.1686
40.2573	-111.1420
40.2520	-111.1082
40.2380	-111.1039
40.2017	-111.1015
40.1678	-111.1149
40.1537	-111.1121
40.1433	-111.1199
40.1223	-111.1167
40.0904	-111.1429
40.0561	-111.1478
40.0075	-111.1393

------ End Nested Sources for Strawberry fault [2412] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Wasatch fault, Nephi section [2351h]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forWasatch fault, Nephi section [2351h] -------
Name: 2351h Wasatch fault, Nephi section (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.18000036
Deterministic Magnitude: 7.01

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	1.033e-003	6.570000	7.050000	2.300000	6.810000	0.120000	0.010000	10.000000

Normal	0.048002	Activity	1.033e-003	6.770000	7.250000	2.300000	7.010000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	1.033e-003	6.970000	7.450000	2.300000	7.210000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.931e-003	6.500000	6.810000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.703e-003	6.500000	7.010000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.238e-003	6.500000	7.210000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	1.033e-003	6.570000	7.050000	2.300000	6.810000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	1.033e-003	6.770000	7.250000	2.300000	7.010000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	1.033e-003	6.970000	7.450000	2.300000	7.210000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	1.931e-003	6.500000	6.810000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	2.703e-003	6.500000	7.010000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	3.238e-003	6.500000	7.210000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	1.033e-003	6.570000	7.050000	2.300000	6.810000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	1.033e-003	6.770000	7.250000	2.300000	7.010000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	1.033e-003	6.970000	7.450000	2.300000	7.210000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.931e-003	6.500000	6.810000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.703e-003	6.500000	7.010000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.238e-003	6.500000	7.210000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.0845	-111.7339
40.0673	-111.7354
40.0275	-111.7219
40.0121	-111.7324
40.0002	-111.7340
39.9922	-111.7519
39.9767	-111.7630
39.9443	-111.7578
39.9313	-111.7859
39.8824	-111.7917
39.8673	-111.8047
39.8285	-111.8072
39.8225	-111.8125
39.7507	-111.8285
39.7328	-111.8284
39.7066	-111.8165
39.7001	-111.8203

Name: 2351h Wasatch fault, Nephi section (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.54000108
Deterministic Magnitude: 7.01

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	1.033e-003	6.570000	7.050000	2.300000	6.810000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	1.033e-003	6.770000	7.250000	2.300000	7.010000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	1.033e-003	6.970000	7.450000	2.300000	7.210000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.931e-003	6.500000	6.810000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.703e-003	6.500000	7.010000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.238e-003	6.500000	7.210000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	1.033e-003	6.570000	7.050000	2.300000	6.810000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	1.033e-003	6.770000	7.250000	2.300000	7.010000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	1.033e-003	6.970000	7.450000	2.300000	7.210000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	1.931e-003	6.500000	6.810000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	2.703e-003	6.500000	7.010000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	3.238e-003	6.500000	7.210000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	1.033e-003	6.570000	7.050000	2.300000	6.810000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	1.033e-003	6.770000	7.250000	2.300000	7.010000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	1.033e-003	6.970000	7.450000	2.300000	7.210000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.931e-003	6.500000	6.810000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.703e-003	6.500000	7.010000	1.842068	0.000000	0.000000	0.000000	0.000000

Exponential	0.004000	Activity	3.238e-003	6.500000	7.210000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.0845	-111.7339
40.0673	-111.7354
40.0275	-111.7219
40.0121	-111.7324
40.0002	-111.7340
39.9922	-111.7519
39.9767	-111.7630
39.9443	-111.7578
39.9313	-111.7859
39.8824	-111.7917
39.8673	-111.8047
39.8285	-111.8072
39.8225	-111.8125
39.7507	-111.8285
39.7328	-111.8284
39.7066	-111.8165
39.7001	-111.8203

Name: 2351h Wasatch fault, Nephi section (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.18000036
Deterministic Magnitude: 7.01

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	1.033e-003	6.570000	7.050000	2.300000	6.810000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	1.033e-003	6.770000	7.250000	2.300000	7.010000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	1.033e-003	6.970000	7.450000	2.300000	7.210000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.931e-003	6.500000	6.810000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.703e-003	6.500000	7.010000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.238e-003	6.500000	7.210000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	1.033e-003	6.570000	7.050000	2.300000	6.810000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	1.033e-003	6.770000	7.250000	2.300000	7.010000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	1.033e-003	6.970000	7.450000	2.300000	7.210000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	1.931e-003	6.500000	6.810000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	2.703e-003	6.500000	7.010000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	3.238e-003	6.500000	7.210000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	1.033e-003	6.570000	7.050000	2.300000	6.810000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	1.033e-003	6.770000	7.250000	2.300000	7.010000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	1.033e-003	6.970000	7.450000	2.300000	7.210000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.931e-003	6.500000	6.810000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.703e-003	6.500000	7.010000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.238e-003	6.500000	7.210000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
40.0845	-111.7339
40.0673	-111.7354
40.0275	-111.7219
40.0121	-111.7324
40.0002	-111.7340
39.9922	-111.7519
39.9767	-111.7630
39.9443	-111.7578
39.9313	-111.7859
39.8824	-111.7917
39.8673	-111.8047
39.8285	-111.8072
39.8225	-111.8125
39.7507	-111.8285
39.7328	-111.8284
39.7066	-111.8165
39.7001	-111.8203

------ End Nested Sources for Wasatch fault, Nephi section [2351h] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: West Cache fault, Clarkston section [2521a]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forWest Cache fault, Clarkston section [2521a] -------
Name: 2521a West Cache fault, Clarkston section (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.66

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.699e-004	6.220000	6.700000	2.300000	6.460000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.699e-004	6.420000	6.900000	2.300000	6.660000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.699e-004	6.620000	7.100000	2.300000	6.860000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	5.247e-004	6.500000	6.660000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	6.036e-004	6.220000	6.700000	2.300000	6.460000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	6.036e-004	6.420000	6.900000	2.300000	6.660000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	6.036e-004	6.620000	7.100000	2.300000	6.860000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	8.562e-004	6.500000	6.660000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	5.779e-004	6.220000	6.700000	2.300000	6.460000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.779e-004	6.420000	6.900000	2.300000	6.660000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.779e-004	6.620000	7.100000	2.300000	6.860000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	8.198e-004	6.500000	6.660000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.8962	-112.0674

41.8981	-112.0709
41.9128	-112.0815
41.9210	-112.0901
41.9300	-112.0929
41.9391	-112.0991
41.9494	-112.1038
41.9530	-112.1027
41.9708	-112.1113
41.9823	-112.1102
41.9907	-112.1106
41.9951	-112.1075
41.9998	-112.0965
42.0086	-112.0943
42.0131	-112.0918
42.0304	-112.0914
42.0512	-112.0849
42.0755	-112.0816
42.0893	-112.0790

Name: 2521a West Cache fault, Clarkston section (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.66

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.699e-004	6.220000	6.700000	2.300000	6.460000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.699e-004	6.420000	6.900000	2.300000	6.660000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.699e-004	6.620000	7.100000	2.300000	6.860000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	5.247e-004	6.500000	6.660000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	6.036e-004	6.220000	6.700000	2.300000	6.460000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	6.036e-004	6.420000	6.900000	2.300000	6.660000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	6.036e-004	6.620000	7.100000	2.300000	6.860000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	8.562e-004	6.500000	6.660000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	5.779e-004	6.220000	6.700000	2.300000	6.460000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.779e-004	6.420000	6.900000	2.300000	6.660000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.779e-004	6.620000	7.100000	2.300000	6.860000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	8.198e-004	6.500000	6.660000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.8962	-112.0674
41.8981	-112.0709
41.9128	-112.0815
41.9210	-112.0901
41.9300	-112.0929
41.9391	-112.0991
41.9494	-112.1038
41.9530	-112.1027
41.9708	-112.1113
41.9823	-112.1102
41.9907	-112.1106
41.9951	-112.1075
41.9998	-112.0965
42.0086	-112.0943
42.0131	-112.0918
42.0304	-112.0914
42.0512	-112.0849
42.0755	-112.0816
42.0893	-112.0790

Name: 2521a West Cache fault, Clarkston section (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.66

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.699e-004	6.220000	6.700000	2.300000	6.460000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.699e-004	6.420000	6.900000	2.300000	6.660000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.699e-004	6.620000	7.100000	2.300000	6.860000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	5.247e-004	6.500000	6.660000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	6.036e-004	6.220000	6.700000	2.300000	6.460000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	6.036e-004	6.420000	6.900000	2.300000	6.660000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	6.036e-004	6.620000	7.100000	2.300000	6.860000	0.120000	0.010000	10.000000
Exponential	0.266670	Activity	8.562e-004	6.500000	6.660000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	5.779e-004	6.220000	6.700000	2.300000	6.460000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.779e-004	6.420000	6.900000	2.300000	6.660000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.779e-004	6.620000	7.100000	2.300000	6.860000	0.120000	0.010000	10.000000
Exponential	0.033330	Activity	8.198e-004	6.500000	6.660000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
41.8962	-112.0674
41.8981	-112.0709
41.9128	-112.0815
41.9210	-112.0901
41.9300	-112.0929
41.9391	-112.0991
41.9494	-112.1038
41.9530	-112.1027
41.9708	-112.1113
41.9823	-112.1102
41.9907	-112.1106
41.9951	-112.1075
41.9998	-112.0965
42.0086	-112.0943
42.0131	-112.0918
42.0304	-112.0914
42.0512	-112.0849
42.0755	-112.0816
42.0893	-112.0790

------ End Nested Sources for West Cache fault, Clarkston section [2521a] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Rock Creek fault [729]
Region: USGS 2014 Wyoming
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forRock Creek fault [729] -------
Name: 729 Rock Creek fault (dip 35)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.95

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.909e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000

Normal	0.040002	Activity	3.909e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.909e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	6.031e-004	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	9.209e-004	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.141e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	6.084e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	6.084e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	6.084e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	9.387e-004	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.433e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.775e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.398e-003	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.398e-003	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.398e-003	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	2.157e-003	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	3.294e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	4.080e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
42.1439	-110.8027
42.1238	-110.8028
42.0789	-110.8132
42.0147	-110.8080
41.9443	-110.8264
41.8695	-110.8274
41.8417	-110.8187
41.7993	-110.8212
41.7786	-110.8293

Name: 729 Rock Creek fault (dip 50)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.95

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.909e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.909e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.909e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	6.031e-004	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	9.209e-004	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.141e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	6.084e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	6.084e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	6.084e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	9.387e-004	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.433e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.775e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.398e-003	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.398e-003	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.398e-003	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	2.157e-003	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	3.294e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	4.080e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
42.1439	-110.8027
42.1238	-110.8028
42.0789	-110.8132
42.0147	-110.8080
41.9443	-110.8264
41.8695	-110.8274
41.8417	-110.8187
41.7993	-110.8212
41.7786	-110.8293

Name: 729 Rock Creek fault (dip 65)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.95

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	3.909e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	3.909e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	3.909e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	6.031e-004	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	9.209e-004	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.141e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	6.084e-004	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	6.084e-004	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	6.084e-004	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	9.387e-004	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.433e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.775e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	1.398e-003	6.510000	6.990000	2.300000	6.750000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.398e-003	6.710000	7.190000	2.300000	6.950000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.398e-003	6.910000	7.390000	2.300000	7.150000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	2.157e-003	6.500000	6.750000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	3.294e-003	6.500000	6.950000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	4.080e-003	6.500000	7.150000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
42.1439	-110.8027
42.1238	-110.8028
42.0789	-110.8132
42.0147	-110.8080
41.9443	-110.8264
41.8695	-110.8274
41.8417	-110.8187

```
    41.7993  -110.8212
    41.7786  -110.8293

 ------ End Nested Sources for Rock Creek fault [729] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS 2014

*****************************************

Name: Wasatch fault, Levan section [2351i]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forWasatch fault, Levan section [2351i] -------
Name: 2351i Wasatch fault, Levan section (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.18000036
Deterministic Magnitude: 6.83

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag      Beta      Mean     Sigma    Delta1    Delta2
           Normal 0.0160008    Activity  4.864e-004  6.390000  6.870000  2.300000  6.630000  0.120000  0.010000 10.000000
           Normal  0.048002    Activity  4.864e-004  6.590000  7.070000  2.300000  6.830000  0.120000  0.010000 10.000000
           Normal  0.016001    Activity  4.864e-004  6.790000  7.270000  2.300000  7.030000  0.120000  0.010000 10.000000
      Exponential  0.004000    Activity  4.338e-004  6.500000  6.630000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.011999    Activity  9.279e-004  6.500000  6.830000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.004000    Activity  1.270e-003  6.500000  7.030000  1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.127999    Activity  3.527e-004  6.390000  6.870000  2.300000  6.630000  0.120000  0.010000 10.000000
           Normal  0.383997    Activity  3.527e-004  6.590000  7.070000  2.300000  6.830000  0.120000  0.010000 10.000000
           Normal  0.127999    Activity  3.527e-004  6.790000  7.270000  2.300000  7.030000  0.120000  0.010000 10.000000
      Exponential  0.032000    Activity  3.146e-004  6.500000  6.630000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.096001    Activity  6.730e-004  6.500000  6.830000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.032000    Activity  9.209e-004  6.500000  7.030000  1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.016001    Activity  1.414e-003  6.390000  6.870000  2.300000  6.630000  0.120000  0.010000 10.000000
           Normal  0.048002    Activity  1.414e-003  6.590000  7.070000  2.300000  6.830000  0.120000  0.010000 10.000000
           Normal  0.016001    Activity  1.414e-003  6.790000  7.270000  2.300000  7.030000  0.120000  0.010000 10.000000
      Exponential  0.004000    Activity  1.261e-003  6.500000  6.630000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.011999    Activity  2.698e-003  6.500000  6.830000  1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.004000    Activity  3.692e-003  6.500000  7.030000  1.842068  0.000000  0.000000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw      Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000  0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000  0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    39.6434  -111.8276
    39.6241  -111.8206
    39.5740  -111.8216
    39.5504  -111.8321
    39.5271  -111.8621
    39.5057  -111.8600
    39.4888  -111.8717
    39.4793  -111.8842
    39.4571  -111.8851
    39.4335  -111.9133
    39.4211  -111.9148
    39.4182  -111.9206
    39.3864  -111.9192
```

39.3807 -111.9226

Name: 2351i Wasatch fault, Levan section (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.54000108
Deterministic Magnitude: 6.83

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	4.864e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	4.864e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	4.864e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	4.338e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	9.279e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	1.270e-003	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	3.527e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	3.527e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	3.527e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	3.146e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	6.730e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	9.209e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	1.414e-003	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	1.414e-003	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	1.414e-003	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.261e-003	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.698e-003	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.692e-003	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
39.6434	-111.8276
39.6241	-111.8206
39.5740	-111.8216
39.5504	-111.8321
39.5271	-111.8621
39.5057	-111.8600
39.4888	-111.8717
39.4793	-111.8842
39.4571	-111.8851
39.4335	-111.9133
39.4211	-111.9148
39.4182	-111.9206
39.3864	-111.9192
39.3807	-111.9226

Name: 2351i Wasatch fault, Levan section (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.18000036
Deterministic Magnitude: 6.83

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.0160008	Activity	4.864e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	4.864e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	4.864e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000

Exponential	0.004000	Activity	4.338e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	9.279e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	1.270e-003	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.127999	Activity	3.527e-004	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.383997	Activity	3.527e-004	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.127999	Activity	3.527e-004	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.032000	Activity	3.146e-004	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.096001	Activity	6.730e-004	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.032000	Activity	9.209e-004	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.016001	Activity	1.414e-003	6.390000	6.870000	2.300000	6.630000	0.120000	0.010000	10.000000
Normal	0.048002	Activity	1.414e-003	6.590000	7.070000	2.300000	6.830000	0.120000	0.010000	10.000000
Normal	0.016001	Activity	1.414e-003	6.790000	7.270000	2.300000	7.030000	0.120000	0.010000	10.000000
Exponential	0.004000	Activity	1.261e-003	6.500000	6.630000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.011999	Activity	2.698e-003	6.500000	6.830000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.004000	Activity	3.692e-003	6.500000	7.030000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
39.6434	-111.8276
39.6241	-111.8206
39.5740	-111.8216
39.5504	-111.8321
39.5271	-111.8621
39.5057	-111.8600
39.4888	-111.8717
39.4793	-111.8842
39.4571	-111.8851
39.4335	-111.9133
39.4211	-111.9148
39.4182	-111.9206
39.3864	-111.9192
39.3807	-111.9226

------ End Nested Sources for Wasatch fault, Levan section [2351i] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Joes Valley fault zone [2455]
Region: USGS 2014 Utah
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forJoes Valley fault zone [2455] -------
Name: 2455 Joes Valley fault zone (dip 35)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.02

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	9.307e-005	6.580000	7.060000	2.300000	6.820000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	9.307e-005	6.780000	7.260000	2.300000	7.020000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	9.307e-005	6.980000	7.460000	2.300000	7.220000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.790e-004	6.500000	6.820000	1.842068	0.000000	0.000000	0.000000	0.000000

Exponential	0.019998	Activity	2.478e-004	6.500000	7.020000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	2.953e-004	6.500000	7.220000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	9.307e-005	6.580000	7.060000	2.300000	6.820000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	9.307e-005	6.780000	7.260000	2.300000	7.020000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	9.307e-005	6.980000	7.460000	2.300000	7.220000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.790e-004	6.500000	6.820000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	2.478e-004	6.500000	7.020000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	2.953e-004	6.500000	7.220000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	9.307e-005	6.580000	7.060000	2.300000	6.820000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	9.307e-005	6.780000	7.260000	2.300000	7.020000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	9.307e-005	6.980000	7.460000	2.300000	7.220000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.790e-004	6.500000	6.820000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	2.478e-004	6.500000	7.020000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	2.953e-004	6.500000	7.220000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
39.5997	-111.2229
39.5312	-111.2190
39.5001	-111.2314
39.4681	-111.2288
39.4315	-111.2333
39.3599	-111.2579
39.3021	-111.2712
39.2583	-111.2703
39.1847	-111.2581

Name: 2455 Joes Valley fault zone (dip 50)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.02

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	9.307e-005	6.580000	7.060000	2.300000	6.820000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	9.307e-005	6.780000	7.260000	2.300000	7.020000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	9.307e-005	6.980000	7.460000	2.300000	7.220000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.790e-004	6.500000	6.820000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	2.478e-004	6.500000	7.020000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	2.953e-004	6.500000	7.220000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	9.307e-005	6.580000	7.060000	2.300000	6.820000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	9.307e-005	6.780000	7.260000	2.300000	7.020000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	9.307e-005	6.980000	7.460000	2.300000	7.220000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.790e-004	6.500000	6.820000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	2.478e-004	6.500000	7.020000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	2.953e-004	6.500000	7.220000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	9.307e-005	6.580000	7.060000	2.300000	6.820000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	9.307e-005	6.780000	7.260000	2.300000	7.020000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	9.307e-005	6.980000	7.460000	2.300000	7.220000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.790e-004	6.500000	6.820000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	2.478e-004	6.500000	7.020000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	2.953e-004	6.500000	7.220000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--

Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
39.5997	-111.2229
39.5312	-111.2190
39.5001	-111.2314
39.4681	-111.2288
39.4315	-111.2333
39.3599	-111.2579
39.3021	-111.2712
39.2583	-111.2703
39.1847	-111.2581

Name: 2455 Joes Valley fault zone (dip 65)
Region: USGS 2014 Utah
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.02

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	9.307e-005	6.580000	7.060000	2.300000	6.820000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	9.307e-005	6.780000	7.260000	2.300000	7.020000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	9.307e-005	6.980000	7.460000	2.300000	7.220000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.790e-004	6.500000	6.820000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	2.478e-004	6.500000	7.020000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	2.953e-004	6.500000	7.220000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	9.307e-005	6.580000	7.060000	2.300000	6.820000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	9.307e-005	6.780000	7.260000	2.300000	7.020000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	9.307e-005	6.980000	7.460000	2.300000	7.220000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.790e-004	6.500000	6.820000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	2.478e-004	6.500000	7.020000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	2.953e-004	6.500000	7.220000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	9.307e-005	6.580000	7.060000	2.300000	6.820000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	9.307e-005	6.780000	7.260000	2.300000	7.020000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	9.307e-005	6.980000	7.460000	2.300000	7.220000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.790e-004	6.500000	6.820000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	2.478e-004	6.500000	7.020000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	2.953e-004	6.500000	7.220000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
39.5997	-111.2229
39.5312	-111.2190
39.5001	-111.2314
39.4681	-111.2288
39.4315	-111.2333
39.3599	-111.2579
39.3021	-111.2712
39.2583	-111.2703
39.1847	-111.2581

------ End Nested Sources for Joes Valley fault zone [2455] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Grand Valley fault [726c]
Region: USGS 2014 Wyoming
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forGrand Valley fault [726c] -------
Name: 726c Grand Valley fault (dip 35)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.1

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.448e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.448e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.448e-004	7.060000	7.540000	2.300000	7.300000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	3.463e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.443e-004	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.121e-004	6.500000	7.300000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	6.304e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	6.304e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	6.304e-004	7.060000	7.540000	2.300000	7.300000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.507e-003	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.933e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	2.228e-003	6.500000	7.300000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	5.251e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.251e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.251e-004	7.060000	7.540000	2.300000	7.300000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.255e-003	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.611e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.856e-003	6.500000	7.300000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
43.0002	-110.9638
42.9661	-110.9366
42.8840	-110.8834
42.7976	-110.8851
42.7783	-110.8899
42.7103	-110.9256
42.6350	-110.9147
42.6190	-110.8967
42.5938	-110.8897
42.5851	-110.8799
42.5303	-110.8786

Name: 726c Grand Valley fault (dip 50)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal

Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.1

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.448e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.448e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.448e-004	7.060000	7.540000	2.300000	7.300000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	3.463e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.443e-004	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.121e-004	6.500000	7.300000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	6.304e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	6.304e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	6.304e-004	7.060000	7.540000	2.300000	7.300000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.507e-003	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.933e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	2.228e-003	6.500000	7.300000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	5.251e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.251e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.251e-004	7.060000	7.540000	2.300000	7.300000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.255e-003	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.611e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.856e-003	6.500000	7.300000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
43.0002	-110.9638
42.9661	-110.9366
42.8840	-110.8834
42.7976	-110.8851
42.7783	-110.8899
42.7103	-110.9256
42.6350	-110.9147
42.6190	-110.8967
42.5938	-110.8897
42.5851	-110.8799
42.5303	-110.8786

Name: 726c Grand Valley fault (dip 65)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.1

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	1.448e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	1.448e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	1.448e-004	7.060000	7.540000	2.300000	7.300000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	3.463e-004	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	4.443e-004	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	5.121e-004	6.500000	7.300000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	6.304e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	6.304e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	6.304e-004	7.060000	7.540000	2.300000	7.300000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.507e-003	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.933e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	2.228e-003	6.500000	7.300000	1.842068	0.000000	0.000000	0.000000	0.000000

Normal	0.013334	Activity	5.251e-004	6.660000	7.140000	2.300000	6.900000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.251e-004	6.860000	7.340000	2.300000	7.100000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.251e-004	7.060000	7.540000	2.300000	7.300000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.255e-003	6.500000	6.900000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.611e-003	6.500000	7.100000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.856e-003	6.500000	7.300000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
43.0002	-110.9638
42.9661	-110.9366
42.8840	-110.8834
42.7976	-110.8851
42.7783	-110.8899
42.7103	-110.9256
42.6350	-110.9147
42.6190	-110.8967
42.5938	-110.8897
42.5851	-110.8799
42.5303	-110.8786

------ End Nested Sources for Grand Valley fault [726c] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
0.25	0.250000	Chiou-Youngs (2014) NGA West 2 USGS 2014

****

Name: Greys River fault [728]
Region: USGS 2014 Wyoming
Category:Composite Seismic Source
Database: C:\Users\bill.turner\AppData\Local\Fugro\EZ-FRISK\Regions\USGS2014 Lower 48\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forGreys River fault [728] -------
Name: 728 Greys River fault (dip 35)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.05

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	35	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	5.639e-004	6.610000	7.090000	2.300000	6.850000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.639e-004	6.810000	7.290000	2.300000	7.050000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.639e-004	7.010000	7.490000	2.300000	7.250000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.181e-003	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.583e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.861e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	5.246e-004	6.610000	7.090000	2.300000	6.850000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	5.246e-004	6.810000	7.290000	2.300000	7.050000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	5.246e-004	7.010000	7.490000	2.300000	7.250000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.099e-003	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.473e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.731e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	4.537e-004	6.610000	7.090000	2.300000	6.850000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	4.537e-004	6.810000	7.290000	2.300000	7.050000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	4.537e-004	7.010000	7.490000	2.300000	7.250000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	9.502e-004	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000

Exponential	0.019998	Activity	1.274e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.497e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
43.0007	-110.6907
42.9462	-110.6817
42.9268	-110.6833
42.8679	-110.6636
42.8434	-110.6690
42.7699	-110.6603
42.7131	-110.6626
42.6851	-110.6565
42.6589	-110.6581
42.6248	-110.6461
42.5554	-110.6464

Name: 728 Greys River fault (dip 50)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.05

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	50	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	5.639e-004	6.610000	7.090000	2.300000	6.850000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.639e-004	6.810000	7.290000	2.300000	7.050000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.639e-004	7.010000	7.490000	2.300000	7.250000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.181e-003	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.583e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.861e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	5.246e-004	6.610000	7.090000	2.300000	6.850000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	5.246e-004	6.810000	7.290000	2.300000	7.050000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	5.246e-004	7.010000	7.490000	2.300000	7.250000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.099e-003	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.473e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.731e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	4.537e-004	6.610000	7.090000	2.300000	6.850000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	4.537e-004	6.810000	7.290000	2.300000	7.050000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	4.537e-004	7.010000	7.490000	2.300000	7.250000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	9.502e-004	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.274e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.497e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
43.0007	-110.6907
42.9462	-110.6817
42.9268	-110.6833
42.8679	-110.6636
42.8434	-110.6690
42.7699	-110.6603
42.7131	-110.6626
42.6851	-110.6565
42.6589	-110.6581
42.6248	-110.6461
42.5554	-110.6464

Name: 728 Greys River fault (dip 65)
Region: USGS 2014 Wyoming
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.05

Fault Profile Parameters:

Dip1	Dip2	Depth1	Depth2	Depth3
90	65	0	0.001	15

Magnitude Recurrence Distributions:

ModelType	Weight	RateType	Rate	MinMag	MaxMag	Beta	Mean	Sigma	Delta1	Delta2
Normal	0.013334	Activity	5.639e-004	6.610000	7.090000	2.300000	6.850000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	5.639e-004	6.810000	7.290000	2.300000	7.050000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	5.639e-004	7.010000	7.490000	2.300000	7.250000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	1.181e-003	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.583e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.861e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.106666	Activity	5.246e-004	6.610000	7.090000	2.300000	6.850000	0.120000	0.010000	10.000000
Normal	0.319998	Activity	5.246e-004	6.810000	7.290000	2.300000	7.050000	0.120000	0.010000	10.000000
Normal	0.106666	Activity	5.246e-004	7.010000	7.490000	2.300000	7.250000	0.120000	0.010000	10.000000
Exponential	0.053334	Activity	1.099e-003	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.160002	Activity	1.473e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.053334	Activity	1.731e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000
Normal	0.013334	Activity	4.537e-004	6.610000	7.090000	2.300000	6.850000	0.120000	0.010000	10.000000
Normal	0.040002	Activity	4.537e-004	6.810000	7.290000	2.300000	7.050000	0.120000	0.010000	10.000000
Normal	0.013334	Activity	4.537e-004	7.010000	7.490000	2.300000	7.250000	0.120000	0.010000	10.000000
Exponential	0.006666	Activity	9.502e-004	6.500000	6.850000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.019998	Activity	1.274e-003	6.500000	7.050000	1.842068	0.000000	0.000000	0.000000	0.000000
Exponential	0.006666	Activity	1.497e-003	6.500000	7.250000	1.842068	0.000000	0.000000	0.000000	0.000000

Rupture Length Parameters

Rupture Dimensioning	Al	Bl	Sigl	Aw	Bw	Sigw	Aa	Ba	Sigw
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	4.000000	0.000000	0.001000	4.000000	0.000000	0.001000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--
Length and width	-3.220000	0.690000	0.220000	-3.220000	0.690000	0.220000	--	--	--

Trace Coordinates:

Latitude	Longitude
43.0007	-110.6907
42.9462	-110.6817
42.9268	-110.6833
42.8679	-110.6636
42.8434	-110.6690
42.7699	-110.6603
42.7131	-110.6626
42.6851	-110.6565
42.6589	-110.6581
42.6248	-110.6461
42.5554	-110.6464

------ End Nested Sources for Greys River fault [728] -------

Attenuation Equations for Source:

Raw Weight	Normalized Weight	Name
0.25	0.250000	Abrahamson-et al (2014) NGA West 2 USGS 2014
0.25	0.250000	Boore-et al (2014) NGA West 2 USGS 2014

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      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS 2014

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MAGNITUDE CONVERSIONS

This analysis does not require any magnitude conversions.
Note:  Your analysis may indirectly use magnitude conversions that are not listed here.

Echo File Creation Time: 18:07:47 Tuesday, July 02, 2024
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Probabilistic Hazard Results for EZ-FRISK 8.07 Build 044

SPECTRAL PERIOD: PGA
Column 1: Acceleration (g)
Column 2: Mean
Column 3: Frankel (1996) USGS 2008 Truncated Mw
Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
Column 5: Silva et al (2002) USGS 2008 Mw
Column 6: Campbell (2003) USGS 2008 Mw
Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
Column 10: Atkinson (2008p) USGS 2014 Table Soil
Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 12: Boore-et al (2014) NGA West 2 USGS 2014
Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.817e-001	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	1.723e-001	1.723e-001	1.723e-001	1.723e-001
5.0e-004	1.795e-001	9.430e-003	9.430e-003	9.403e-003	9.430e-003	9.429e-003	9.418e-003	9.423e-003	9.409e-003	1.702e-001	1.717e-001	1.686e-001	1.697e-001
1.0e-003	1.711e-001	9.423e-003	9.423e-003	9.228e-003	9.430e-003	9.394e-003	9.267e-003	9.328e-003	9.219e-003	1.621e-001	1.679e-001	1.567e-001	1.606e-001
5.0e-003	1.068e-001	8.433e-003	8.333e-003	6.252e-003	9.171e-003	7.058e-003	5.192e-003	6.086e-003	5.923e-003	9.941e-002	1.172e-001	8.652e-002	9.696e-002
7.0e-003	8.888e-002	7.622e-003	7.429e-003	5.120e-003	8.737e-003	5.757e-003	3.733e-003	4.666e-003	4.818e-003	8.273e-002	9.923e-002	7.047e-002	8.038e-002
0.010	7.068e-002	6.454e-003	6.141e-003	3.919e-003	7.847e-003	4.271e-003	2.378e-003	3.202e-003	3.707e-003	6.619e-002	7.992e-002	5.514e-002	6.388e-002
0.020	4.094e-002	3.787e-003	3.324e-003	1.988e-003	4.894e-003	1.863e-003	7.378e-004	1.159e-003	1.974e-003	3.957e-002	4.678e-002	3.149e-002	3.716e-002
0.050	1.614e-002	1.204e-003	8.932e-004	6.096e-004	1.321e-003	3.954e-004	9.497e-005	1.820e-004	6.486e-004	1.682e-002	1.836e-002	1.244e-002	1.471e-002
0.070	1.087e-002	7.066e-004	4.888e-004	3.689e-004	6.744e-004	2.015e-004	4.260e-005	8.486e-005	3.867e-004	1.168e-002	1.227e-002	8.417e-003	9.934e-003
0.100	6.989e-003	3.806e-004	2.459e-004	2.093e-004	3.043e-004	9.538e-005	1.949e-005	3.846e-005	2.067e-004	7.727e-003	7.800e-003	5.438e-003	6.405e-003
0.200	2.772e-003	1.010e-004	6.054e-005	6.306e-005	6.026e-005	2.432e-005	5.820e-006	9.751e-006	4.728e-005	3.233e-003	2.992e-003	2.152e-003	2.572e-003
0.300	1.492e-003	4.359e-005	2.589e-005	2.920e-005	2.492e-005	1.262e-005	3.082e-006	4.747e-006	1.703e-005	1.822e-003	1.549e-003	1.106e-003	1.429e-003
0.400	8.867e-004	2.326e-005	1.379e-005	1.628e-005	1.364e-005	8.187e-006	1.896e-006	2.812e-006	7.767e-006	1.129e-003	8.873e-004	6.027e-004	8.936e-004
0.500	5.476e-004	1.397e-005	8.260e-006	1.008e-005	8.488e-006	5.810e-006	1.257e-006	1.822e-006	4.115e-006	7.226e-004	5.349e-004	3.289e-004	5.828e-004
0.600	3.443e-004	9.058e-006	5.315e-006	6.680e-006	5.684e-006	4.330e-006	8.736e-007	1.244e-006	2.421e-006	4.684e-004	3.333e-004	1.778e-004	3.837e-004
0.700	2.191e-004	6.191e-006	3.594e-006	4.644e-006	3.990e-006	3.329e-006	6.280e-007	8.811e-007	1.536e-006	3.059e-004	2.127e-004	9.537e-005	2.523e-004
0.800	1.408e-004	4.403e-006	2.521e-006	3.345e-006	2.897e-006	2.615e-006	4.631e-007	6.410e-007	1.031e-006	2.008e-004	1.382e-004	5.108e-005	1.658e-004
1.000	5.967e-005	2.423e-006	1.339e-006	1.873e-006	1.638e-006	1.684e-006	2.661e-007	3.591e-007	5.227e-007	8.761e-005	6.080e-005	1.449e-005	7.167e-005
1.200	2.611e-005	1.441e-006	7.641e-007	1.125e-006	9.852e-007	1.123e-006	1.610e-007	2.121e-007	2.939e-007	3.891e-005	2.804e-005	3.869e-006	3.113e-005
1.500	7.722e-006	7.204e-007	3.573e-007	5.666e-007	4.912e-007	6.299e-007	8.047e-008	1.026e-007	1.387e-007	1.162e-005	9.080e-006	2.641e-008	8.895e-006
2.000	8.154e-007	2.492e-007	1.098e-007	1.963e-007	1.616e-007	2.397e-007	2.698e-008	3.286e-008	4.495e-008	1.163e-006	1.080e-006	2.537e-306	5.829e-007
3.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
4.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
5.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
7.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
10.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

SPECTRAL PERIOD: 0.02
Column 1: Acceleration (g)
Column 2: Mean
Column 3: Frankel (1996) USGS 2008 Truncated Mw
Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
Column 5: Silva et al (2002) USGS 2008 Mw
Column 6: Campbell (2003) USGS 2008 Mw
Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
Column 10: Atkinson (2008p) USGS 2014 Table Soil
Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 12: Boore-et al (2014) NGA West 2 USGS 2014
Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.817e-001	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	1.723e-001	1.723e-001	1.723e-001	1.723e-001
5.0e-004	1.794e-001	9.430e-003	9.430e-003	9.419e-003	9.430e-003	9.430e-003	9.429e-003	9.423e-003	9.423e-003	1.702e-001	1.716e-001	1.684e-001	1.696e-001
1.0e-003	1.710e-001	9.427e-003	9.428e-003	9.329e-003	9.430e-003	9.418e-003	9.407e-003	9.330e-003	9.334e-003	1.622e-001	1.676e-001	1.563e-001	1.605e-001
5.0e-003	1.075e-001	8.783e-003	8.790e-003	7.068e-003	9.311e-003	7.967e-003	7.446e-003	6.124e-003	6.882e-003	1.000e-001	1.162e-001	8.620e-002	9.666e-002
7.0e-003	8.973e-002	8.154e-003	8.137e-003	6.017e-003	9.067e-003	6.916e-003	6.194e-003	4.708e-003	5.843e-003	8.334e-002	9.821e-002	7.024e-002	8.011e-002
0.010	7.161e-002	7.156e-003	7.084e-003	4.806e-003	8.489e-003	5.534e-003	4.660e-003	3.242e-003	4.700e-003	6.678e-002	7.892e-002	5.500e-002	6.364e-002
0.020	4.170e-002	4.549e-003	4.334e-003	2.638e-003	6.105e-003	2.819e-003	1.989e-003	1.183e-003	2.720e-003	4.006e-002	4.602e-002	3.148e-002	3.702e-002
0.050	1.648e-002	1.589e-003	1.366e-003	8.809e-004	2.209e-003	7.139e-004	3.522e-004	1.889e-004	1.019e-003	1.710e-002	1.801e-002	1.252e-002	1.467e-002
0.070	1.110e-002	9.564e-004	7.836e-004	5.465e-004	1.281e-003	3.823e-004	1.624e-004	8.895e-005	6.488e-004	1.189e-002	1.204e-002	8.490e-003	9.922e-003
0.100	7.129e-003	5.252e-004	4.088e-004	3.175e-004	6.618e-004	1.868e-004	7.042e-005	4.092e-005	3.760e-004	7.870e-003	7.660e-003	5.503e-003	6.409e-003
0.200	2.825e-003	1.417e-004	1.035e-004	9.989e-005	1.617e-004	4.477e-005	1.757e-005	1.079e-005	1.036e-004	3.285e-003	2.950e-003	2.205e-003	2.585e-003
0.300	1.525e-003	6.118e-005	4.475e-005	4.764e-005	7.099e-005	2.129e-005	9.630e-006	5.397e-006	4.197e-005	1.842e-003	1.533e-003	1.161e-003	1.440e-003
0.400	9.108e-004	3.264e-005	2.422e-005	2.724e-005	4.032e-005	1.331e-005	6.544e-006	3.267e-006	2.075e-005	1.133e-003	8.817e-004	6.548e-004	9.031e-004
0.500	5.652e-004	1.963e-005	1.478e-005	1.726e-005	2.623e-005	9.395e-006	4.826e-006	2.156e-006	1.164e-005	7.194e-004	5.341e-004	3.714e-004	5.908e-004
0.600	3.568e-004	1.275e-005	9.716e-006	1.170e-005	1.854e-005	7.058e-006	3.715e-006	1.498e-006	7.137e-006	4.622e-004	3.346e-004	2.088e-004	3.905e-004
0.700	2.277e-004	8.750e-006	6.721e-006	8.311e-006	1.386e-005	5.504e-006	2.940e-006	1.078e-006	4.679e-006	2.990e-004	2.149e-004	1.163e-004	2.580e-004
0.800	1.468e-004	6.252e-006	4.824e-006	6.117e-006	1.078e-005	4.403e-006	2.375e-006	7.970e-007	3.230e-006	1.943e-004	1.405e-004	6.460e-005	1.704e-004
1.000	6.267e-005	3.487e-006	2.690e-006	3.578e-006	7.066e-006	2.968e-006	1.619e-006	4.615e-007	1.724e-006	8.307e-005	6.264e-005	1.975e-005	7.443e-005
1.200	2.781e-005	2.118e-006	1.617e-006	2.254e-006	4.978e-006	2.095e-006	1.151e-006	2.826e-007	1.024e-006	3.611e-005	2.932e-005	5.881e-006	3.269e-005
1.500	8.598e-006	1.117e-006	8.279e-007	1.237e-006	3.195e-006	1.312e-006	7.282e-007	1.457e-007	5.330e-007	1.038e-005	9.741e-006	4.048e-007	9.533e-006
2.000	1.252e-006	4.618e-007	3.186e-007	5.341e-007	1.722e-006	6.545e-007	3.728e-007	5.559e-008	2.199e-007	8.708e-007	1.296e-006	2.537e-306	7.210e-007
3.000	1.619e-007	1.137e-007	6.473e-008	1.360e-007	6.017e-007	1.896e-007	1.183e-007	1.071e-008	5.421e-008	2.537e-306	2.537e-306	2.537e-306	2.537e-306
4.000	5.446e-008	3.486e-008	1.637e-008	4.071e-008	2.181e-007	5.832e-008	4.093e-008	2.190e-009	1.609e-008	2.537e-306	2.537e-306	2.537e-306	2.537e-306
5.000	1.581e-008	9.955e-009	3.919e-009	1.133e-008	6.594e-008	1.553e-008	1.219e-008	2.721e-010	4.282e-009	2.537e-306	2.537e-306	2.537e-306	2.537e-306
7.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
10.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

SPECTRAL PERIOD: 0.03

- **Column 1: Acceleration (g)**
- **Column 2: Mean**
- **Column 3: Frankel (1996) USGS 2008 Truncated Mw**
- **Column 4: Toro (1999) Midcontinent - USGS 2008 Mw**
- **Column 5: Silva et al (2002) USGS 2008 Mw**
- **Column 6: Campbell (2003) USGS 2008 Mw**
- **Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw**
- **Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil**
- **Column 9: Pezeshk et al (2011) USGS 2014 Table Soil**
- **Column 10: Atkinson (2008p) USGS 2014 Table Soil**
- **Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014**
- **Column 12: Boore-et al (2014) NGA West 2 USGS 2014**
- **Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014**
- **Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014**

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.817e-001	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	1.723e-001	1.723e-001	1.723e-001	1.723e-001
5.0e-004	1.791e-001	9.430e-003	9.430e-003	9.424e-003	9.430e-003	9.430e-003	9.429e-003	9.414e-003	9.415e-003	1.703e-001	1.715e-001	1.678e-001	1.692e-001
1.0e-003	1.705e-001	9.429e-003	9.429e-003	9.365e-003	9.430e-003	9.424e-003	9.399e-003	9.255e-003	9.271e-003	1.626e-001	1.673e-001	1.551e-001	1.594e-001
5.0e-003	1.074e-001	8.941e-003	8.980e-003	7.494e-003	9.386e-003	8.369e-003	7.301e-003	5.457e-003	6.436e-003	1.017e-001	1.159e-001	8.536e-002	9.583e-002
7.0e-003	8.990e-002	8.414e-003	8.462e-003	6.519e-003	9.272e-003	7.489e-003	6.039e-003	4.048e-003	5.390e-003	8.508e-002	9.813e-002	6.970e-002	7.962e-002
0.010	7.206e-002	7.527e-003	7.564e-003	5.336e-003	8.947e-003	6.236e-003	4.525e-003	2.688e-003	4.286e-003	6.845e-002	7.906e-002	5.474e-002	6.348e-002
0.020	4.251e-002	5.011e-003	4.951e-003	3.071e-003	7.193e-003	3.472e-003	1.932e-003	9.283e-004	2.442e-003	4.136e-002	4.643e-002	3.158e-002	3.728e-002
0.050	1.714e-002	1.857e-003	1.717e-003	1.082e-003	3.210e-003	9.845e-004	3.512e-004	1.506e-004	8.987e-004	1.780e-002	1.844e-002	1.274e-002	1.505e-002

0.070	1.160e-002	1.137e-003	1.015e-003	6.822e-004	2.002e-003	5.457e-004	1.663e-004	7.551e-005	5.684e-004	1.238e-002	1.240e-002	8.690e-003	1.025e-002
0.100	7.473e-003	6.332e-004	5.441e-004	4.022e-004	1.101e-003	2.745e-004	7.517e-005	3.840e-005	3.280e-004	8.184e-003	7.937e-003	5.662e-003	6.659e-003
0.200	2.956e-003	1.733e-004	1.415e-004	1.299e-004	2.768e-004	6.590e-005	2.083e-005	1.284e-005	9.183e-005	3.358e-003	3.090e-003	2.291e-003	2.700e-003
0.300	1.586e-003	7.503e-005	6.154e-005	6.295e-005	1.155e-004	3.000e-005	1.199e-005	7.262e-006	3.862e-005	1.832e-003	1.623e-003	1.223e-003	1.497e-003
0.400	9.413e-004	4.006e-005	3.352e-005	3.647e-005	6.212e-005	1.815e-005	8.415e-006	4.779e-006	1.999e-005	1.087e-003	9.460e-004	7.052e-004	9.315e-004
0.500	5.802e-004	2.411e-005	2.063e-005	2.338e-005	3.871e-005	1.262e-005	6.386e-006	3.376e-006	1.180e-005	6.616e-004	5.819e-004	4.110e-004	6.053e-004
0.600	3.641e-004	1.567e-005	1.368e-005	1.601e-005	2.648e-005	9.433e-006	5.052e-006	2.491e-006	7.633e-006	4.062e-004	3.707e-004	2.380e-004	3.988e-004
0.700	2.311e-004	1.076e-005	9.558e-006	1.149e-005	1.931e-005	7.367e-006	4.106e-006	1.896e-006	5.289e-006	2.509e-004	2.424e-004	1.366e-004	2.634e-004
0.800	1.484e-004	7.693e-006	6.930e-006	8.535e-006	1.474e-005	5.919e-006	3.403e-006	1.476e-006	3.862e-006	1.556e-004	1.618e-004	7.820e-005	1.741e-004
1.000	6.320e-005	4.298e-006	3.944e-006	5.079e-006	9.437e-006	4.040e-006	2.437e-006	9.417e-007	2.309e-006	6.039e-005	7.519e-005	2.547e-005	7.667e-005
1.200	2.825e-005	2.615e-006	2.418e-006	3.248e-006	6.557e-006	2.897e-006	1.815e-006	6.308e-007	1.533e-006	2.373e-005	3.673e-005	8.209e-006	3.405e-005
1.500	9.091e-006	1.383e-006	1.275e-006	1.821e-006	4.166e-006	1.865e-006	1.224e-006	3.682e-007	9.341e-007	5.627e-006	1.322e-005	1.016e-006	1.017e-005
2.000	1.620e-006	5.757e-007	5.141e-007	8.114e-007	2.239e-006	9.794e-007	6.890e-007	1.679e-007	4.858e-007	1.556e-008	2.354e-006	2.537e-306	8.845e-007
3.000	2.652e-007	1.435e-007	1.142e-007	2.191e-007	7.936e-007	3.155e-007	2.545e-007	4.476e-008	1.698e-007	2.537e-306	2.537e-306	2.537e-306	2.537e-306
4.000	9.465e-008	4.408e-008	3.031e-008	6.844e-008	2.935e-007	1.066e-007	9.851e-008	1.364e-008	6.428e-008	2.537e-306	2.537e-306	2.537e-306	2.537e-306
5.000	2.873e-008	1.261e-008	7.645e-009	1.903e-008	8.988e-008	3.038e-008	3.184e-008	3.797e-009	2.048e-008	2.537e-306	2.537e-306	2.537e-306	2.537e-306
7.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
10.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

SPECTRAL PERIOD: 0.05

- **Column 1: Acceleration (g)**
- **Column 2: Mean**
- **Column 3: Frankel (1996) USGS 2008 Truncated Mw**
- **Column 4: Toro (1999) Midcontinent - USGS 2008 Mw**
- **Column 5: Silva et al (2002) USGS 2008 Mw**
- **Column 6: Campbell (2003) USGS 2008 Mw**
- **Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw**
- **Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil**
- **Column 9: Pezeshk et al (2011) USGS 2014 Table Soil**
- **Column 10: Atkinson (2008p) USGS 2014 Table Soil**
- **Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014**
- **Column 12: Boore-et al (2014) NGA West 2 USGS 2014**
- **Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014**
- **Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014**

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.817e-001	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	1.723e-001	1.723e-001	1.723e-001	1.723e-001
5.0e-004	1.790e-001	9.430e-003	9.430e-003	9.427e-003	9.430e-003	9.430e-003	9.427e-003	9.371e-003	9.374e-003	1.706e-001	1.712e-001	1.673e-001	1.691e-001
1.0e-003	1.704e-001	9.429e-003	9.430e-003	9.394e-003	9.430e-003	9.428e-003	9.367e-003	8.977e-003	9.025e-003	1.641e-001	1.665e-001	1.544e-001	1.595e-001
5.0e-003	1.097e-001	9.095e-003	9.153e-003	7.966e-003	9.410e-003	8.751e-003	6.567e-003	3.995e-003	5.252e-003	1.074e-001	1.164e-001	8.727e-002	9.882e-002
7.0e-003	9.281e-002	8.687e-003	8.783e-003	7.107e-003	9.351e-003	8.083e-003	5.175e-003	2.714e-003	4.210e-003	9.092e-002	9.947e-002	7.206e-002	8.311e-002
0.010	7.541e-002	7.946e-003	8.078e-003	5.995e-003	9.164e-003	7.033e-003	3.656e-003	1.643e-003	3.203e-003	7.408e-002	8.125e-002	5.735e-002	6.725e-002
0.020	4.607e-002	5.598e-003	5.723e-003	3.666e-003	7.940e-003	4.353e-003	1.379e-003	4.856e-004	1.673e-003	4.592e-002	4.950e-002	3.414e-002	4.090e-002
0.050	1.969e-002	2.242e-003	2.240e-003	1.387e-003	4.246e-003	1.431e-003	2.165e-004	7.520e-005	5.271e-004	2.046e-002	2.095e-002	1.449e-002	1.743e-002
0.070	1.359e-002	1.405e-003	1.379e-003	8.936e-004	2.846e-003	8.326e-004	9.969e-005	4.015e-005	3.094e-004	1.439e-002	1.444e-002	1.006e-002	1.207e-002
0.100	8.891e-003	7.989e-004	7.676e-004	5.376e-004	1.673e-003	4.378e-004	4.514e-005	2.232e-005	1.637e-004	9.580e-003	9.451e-003	6.654e-003	7.948e-003
0.200	3.572e-003	2.239e-004	2.086e-004	1.796e-004	4.421e-004	1.089e-004	1.306e-005	8.381e-006	3.836e-005	3.914e-003	3.827e-003	2.767e-003	3.258e-003
0.300	1.932e-003	9.750e-005	9.175e-005	8.877e-005	1.759e-004	4.792e-005	7.357e-006	4.707e-006	1.470e-005	2.102e-003	2.087e-003	1.514e-003	1.800e-003
0.400	1.159e-003	5.219e-005	5.036e-005	5.224e-005	8.800e-005	2.785e-005	4.931e-006	3.001e-006	7.258e-006	1.226e-003	1.273e-003	9.037e-004	1.111e-003
0.500	7.265e-004	3.145e-005	3.123e-005	3.396e-005	5.106e-005	1.882e-005	3.562e-006	2.049e-006	4.209e-006	7.353e-004	8.234e-004	5.537e-004	7.189e-004
0.600	4.659e-004	2.047e-005	2.092e-005	2.354e-005	3.278e-005	1.386e-005	2.690e-006	1.462e-006	2.727e-006	4.451e-004	5.538e-004	3.409e-004	4.737e-004
0.700	3.034e-004	1.407e-005	1.476e-005	1.709e-005	2.260e-005	1.075e-005	2.095e-006	1.078e-006	1.912e-006	2.709e-004	3.830e-004	2.098e-004	3.141e-004
0.800	2.002e-004	1.007e-005	1.081e-005	1.283e-005	1.642e-005	8.634e-006	1.668e-006	8.141e-007	1.419e-006	1.659e-004	2.708e-004	1.289e-004	2.086e-004

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    1.000  9.072e-005  5.640e-006  6.290e-006  7.785e-006  9.656e-006  5.939e-006  1.110e-006  4.900e-007  8.758e-007  6.276e-005
1.424e-004  4.882e-005  9.256e-005
    1.200  4.338e-005  3.438e-006  3.941e-006  5.069e-006  6.258e-006  4.313e-006  7.741e-007  3.107e-007  5.932e-007  2.399e-005
7.869e-005  1.855e-005  4.151e-005
    1.500  1.577e-005  1.823e-006  2.144e-006  2.911e-006  3.653e-006  2.842e-006  4.776e-007  1.683e-007  3.635e-007  5.447e-006
3.448e-005  4.193e-006  1.262e-005
    2.000  3.535e-006  7.639e-007  9.091e-007  1.344e-006  1.763e-006  1.564e-006  2.367e-007  6.922e-008  1.831e-007  4.565e-009
9.783e-006  2.192e-013  1.306e-006
    3.000  3.499e-007  1.931e-007  2.226e-007  3.864e-007  5.457e-007  5.583e-007  7.150e-008  1.532e-008  5.719e-008  2.537e-306
4.712e-007  2.537e-306  2.537e-306
    4.000  7.904e-008  5.954e-008  6.366e-008  1.280e-007  1.873e-007  2.077e-007  2.391e-008  3.922e-009  1.942e-008  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    5.000  2.310e-008  1.698e-008  1.648e-008  3.696e-008  5.469e-008  6.419e-008  6.842e-009  6.607e-010  5.660e-009  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    7.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
   10.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306

SPECTRAL PERIOD: 0.075
  Column 1: Acceleration (g)
  Column 2: Mean
  Column 3: Frankel (1996) USGS 2008 Truncated Mw
  Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
  Column 5: Silva et al (2002) USGS 2008 Mw
  Column 6: Campbell (2003) USGS 2008 Mw
  Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
  Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
  Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
  Column 10: Atkinson (2008p) USGS 2014 Table Soil
  Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 12: Boore-et al (2014) NGA West 2 USGS 2014
  Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

       1           2           3           4           5           6           7           8           9          10          11
12          13          14
 1.0e-004  1.817e-001  9.430e-003  9.430e-003  9.430e-003  9.430e-003  9.430e-003  9.430e-003  9.430e-003  9.430e-003  1.723e-001
1.723e-001  1.723e-001  1.723e-001
 5.0e-004  1.798e-001  9.430e-003  9.429e-003  9.430e-003  9.430e-003  9.429e-003  9.427e-003  9.419e-003  1.711e-001
1.716e-001  1.689e-001  1.700e-001
 1.0e-003  1.733e-001  9.430e-003  9.430e-003  9.408e-003  9.430e-003  9.428e-003  9.410e-003  9.383e-003  9.298e-003  1.659e-001
1.680e-001  1.591e-001  1.623e-001
 5.0e-003  1.193e-001  9.188e-003  9.247e-003  8.284e-003  9.415e-003  8.777e-003  7.538e-003  7.014e-003  6.454e-003  1.148e-001
1.247e-001  9.797e-002  1.071e-001
 7.0e-003  1.028e-001  8.863e-003  8.974e-003  7.529e-003  9.370e-003  8.117e-003  6.311e-003  5.708e-003  5.364e-003  9.879e-002
1.088e-001  8.243e-002  9.168e-002
    0.010  8.517e-002  8.235e-003  8.412e-003  6.498e-003  9.222e-003  7.064e-003  4.791e-003  4.201e-003  4.218e-003  8.193e-002
9.096e-002  6.689e-002  7.570e-002
    0.020  5.416e-002  6.058e-003  6.312e-003  4.170e-003  8.164e-003  4.345e-003  2.100e-003  1.747e-003  2.338e-003  5.270e-002
5.815e-002  4.138e-002  4.819e-002
    0.050  2.458e-002  2.586e-003  2.719e-003  1.673e-003  4.586e-003  1.393e-003  3.934e-004  3.204e-004  8.093e-004  2.490e-002
2.630e-002  1.857e-002  2.214e-002
    0.070  1.734e-002  1.653e-003  1.731e-003  1.098e-003  3.122e-003  8.015e-004  1.852e-004  1.535e-004  4.930e-004  1.790e-002
1.855e-002  1.314e-002  1.573e-002
    0.100  1.159e-002  9.574e-004  9.942e-004  6.721e-004  1.853e-003  4.176e-004  8.070e-005  6.974e-005  2.701e-004  1.219e-002
1.240e-002  8.847e-003  1.062e-002
    0.200  4.822e-003  2.747e-004  2.823e-004  2.310e-004  4.829e-004  1.042e-004  1.836e-005  1.738e-005  6.603e-005  5.150e-003
5.202e-003  3.790e-003  4.523e-003
    0.300  2.677e-003  1.204e-004  1.257e-004  1.160e-004  1.856e-004  4.671e-005  9.171e-006  8.694e-006  2.519e-005  2.829e-003
2.931e-003  2.130e-003  2.553e-003
    0.400  1.654e-003  6.465e-005  6.940e-005  6.905e-005  8.968e-005  2.755e-005  5.878e-006  5.442e-006  1.214e-005  1.703e-003
1.858e-003  1.306e-003  1.605e-003
    0.500  1.073e-003  3.904e-005  4.329e-005  4.534e-005  5.065e-005  1.879e-005  4.174e-006  3.754e-006  6.806e-006  1.062e-003
1.254e-003  8.292e-004  1.060e-003
    0.600  7.160e-004  2.545e-005  2.917e-005  3.173e-005  3.188e-005  1.390e-005  3.130e-006  2.731e-006  4.255e-006  6.723e-004
8.815e-004  5.349e-004  7.165e-004
    0.700  4.863e-004  1.752e-005  2.071e-005  2.322e-005  2.164e-005  1.081e-005  2.430e-006  2.058e-006  2.883e-006  4.288e-004
6.374e-004  3.482e-004  4.886e-004
    0.800  3.350e-004  1.256e-005  1.528e-005  1.757e-005  1.550e-005  8.675e-006  1.934e-006  1.591e-006  2.078e-006  2.749e-004
4.712e-004  2.280e-004  3.344e-004
    1.000  1.652e-004  7.045e-006  9.018e-006  1.082e-005  8.875e-006  5.942e-006  1.292e-006  1.003e-006  1.227e-006  1.148e-004
2.705e-004  9.937e-005  1.569e-004
    1.200  8.548e-005  4.301e-006  5.733e-006  7.134e-006  5.597e-006  4.282e-006  9.056e-007  6.666e-007  8.106e-007  4.846e-005
1.633e-004  4.390e-005  7.381e-005
    1.500  3.500e-005  2.286e-006  3.187e-006  4.168e-006  3.125e-006  2.777e-006  5.653e-007  3.855e-007  4.903e-007  1.344e-005
8.201e-005  1.325e-005  2.405e-005
    2.000  9.679e-006  9.608e-007  1.399e-006  1.974e-006  1.396e-006  1.478e-006  2.862e-007  1.737e-007  2.488e-007  1.211e-006
2.911e-005  1.523e-006  3.464e-006
    3.000  1.419e-006  2.454e-007  3.651e-007  5.916e-007  3.732e-007  4.920e-007  9.007e-008  4.556e-008  8.129e-008  2.537e-306
4.691e-006  2.537e-306  2.537e-306
    4.000  1.862e-007  7.607e-008  1.107e-007  2.038e-007  1.141e-007  1.720e-007  3.121e-008  1.380e-008  2.882e-008  2.537e-306
4.219e-007  2.537e-306  2.537e-306
    5.000  2.300e-008  2.160e-008  2.973e-008  6.082e-008  3.056e-008  5.071e-008  9.270e-009  3.809e-009  8.690e-009  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    7.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
   10.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
```

SPECTRAL PERIOD: 0.1
  Column 1: Acceleration (g)
  Column 2: Mean
  Column 3: Frankel (1996) USGS 2008 Truncated Mw
  Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
  Column 5: Silva et al (2002) USGS 2008 Mw
  Column 6: Campbell (2003) USGS 2008 Mw
  Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
  Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
  Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
  Column 10: Atkinson (2008p) USGS 2014 Table Soil
  Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 12: Boore-et al (2014) NGA West 2 USGS 2014
  Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.817e-001	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	1.723e-001	1.723e-001	1.723e-001	1.723e-001
5.0e-004	1.807e-001	9.430e-003	9.430e-003	9.429e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.427e-003	1.715e-001	1.720e-001	1.708e-001	1.709e-001
1.0e-003	1.763e-001	9.430e-003	9.430e-003	9.415e-003	9.430e-003	9.428e-003	9.422e-003	9.425e-003	9.380e-003	1.677e-001	1.699e-001	1.648e-001	1.652e-001
5.0e-003	1.298e-001	9.241e-003	9.296e-003	8.479e-003	9.417e-003	8.881e-003	8.102e-003	8.489e-003	7.284e-003	1.225e-001	1.348e-001	1.122e-001	1.151e-001
7.0e-003	1.137e-001	8.968e-003	9.080e-003	7.801e-003	9.376e-003	8.300e-003	7.052e-003	7.654e-003	6.242e-003	1.070e-001	1.200e-001	9.632e-002	9.976e-002
0.010	9.600e-002	8.416e-003	8.611e-003	6.837e-003	9.238e-003	7.344e-003	5.619e-003	6.410e-003	5.052e-003	9.021e-002	1.025e-001	7.973e-002	8.344e-002
0.020	6.313e-002	6.376e-003	6.707e-003	4.539e-003	8.227e-003	4.739e-003	2.736e-003	3.518e-003	2.933e-003	5.998e-002	6.815e-002	5.106e-002	5.456e-002
0.050	2.994e-002	2.850e-003	3.088e-003	1.900e-003	4.656e-003	1.656e-003	5.874e-004	8.904e-004	1.086e-003	2.989e-002	3.208e-002	2.398e-002	2.625e-002
0.070	2.145e-002	1.850e-003	2.014e-003	1.265e-003	3.164e-003	9.850e-004	2.868e-004	4.587e-004	6.813e-004	2.198e-002	2.285e-002	1.723e-002	1.901e-002
0.100	1.456e-002	1.086e-003	1.185e-003	7.843e-004	1.865e-003	5.283e-004	1.262e-004	2.101e-004	3.853e-004	1.533e-002	1.539e-002	1.176e-002	1.308e-002
0.200	6.233e-003	3.176e-004	3.483e-004	2.752e-004	4.721e-004	1.314e-004	2.556e-005	4.175e-005	9.877e-005	6.814e-003	6.480e-003	5.138e-003	5.779e-003
0.300	3.542e-003	1.401e-004	1.568e-004	1.397e-004	1.767e-004	5.488e-005	1.144e-005	1.711e-005	3.800e-005	3.887e-003	3.667e-003	2.963e-003	3.348e-003
0.400	2.247e-003	7.541e-005	8.701e-005	8.389e-005	8.409e-005	2.993e-005	6.926e-006	9.561e-006	1.814e-005	2.444e-003	2.345e-003	1.878e-003	2.161e-003
0.500	1.501e-003	4.562e-005	5.450e-005	5.547e-005	4.731e-005	1.915e-005	4.790e-006	6.241e-006	9.995e-006	1.602e-003	1.599e-003	1.236e-003	1.467e-003
0.600	1.030e-003	2.978e-005	3.685e-005	3.905e-005	2.990e-005	1.352e-005	3.548e-006	4.440e-006	6.105e-006	1.069e-003	1.136e-003	8.274e-004	1.021e-003
0.700	7.192e-004	2.053e-005	2.628e-005	2.874e-005	2.044e-005	1.018e-005	2.738e-006	3.325e-006	4.039e-006	7.205e-004	8.299e-004	5.596e-004	7.193e-004
0.800	5.083e-004	1.473e-005	1.947e-005	2.186e-005	1.476e-005	7.984e-006	2.173e-006	2.576e-006	2.843e-006	4.880e-004	6.196e-004	3.812e-004	5.089e-004
1.000	2.614e-004	8.279e-006	1.159e-005	1.359e-005	8.572e-006	5.317e-006	1.450e-006	1.651e-006	1.615e-006	2.262e-004	3.625e-004	1.796e-004	2.559e-004
1.200	1.395e-004	5.062e-006	7.440e-006	9.040e-006	5.450e-006	3.774e-006	1.018e-006	1.121e-006	1.038e-006	1.063e-004	2.226e-004	8.625e-005	1.286e-004
1.500	5.807e-005	2.694e-006	4.193e-006	5.343e-006	3.050e-006	2.420e-006	6.391e-007	6.717e-007	6.146e-007	3.467e-005	1.145e-004	2.906e-005	4.583e-005
2.000	1.612e-005	1.135e-006	1.880e-006	2.572e-006	1.343e-006	1.282e-006	3.275e-007	3.206e-007	3.096e-007	5.265e-006	4.241e-005	4.768e-006	8.173e-006
3.000	2.139e-006	2.915e-007	5.107e-007	7.916e-007	3.414e-007	4.300e-007	1.057e-007	9.188e-008	1.033e-007	2.537e-306	7.434e-006	2.537e-306	5.154e-015
4.000	4.017e-007	9.072e-008	1.608e-007	2.787e-007	9.878e-008	1.528e-007	3.741e-008	2.949e-008	3.757e-008	2.537e-306	1.235e-006	2.537e-306	2.537e-306
5.000	2.953e-008	2.568e-008	4.459e-008	8.511e-008	2.505e-008	4.554e-008	1.134e-008	8.387e-009	1.158e-008	2.537e-306	1.122e-008	2.537e-306	2.537e-306
7.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
10.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

SPECTRAL PERIOD: 0.15
  Column 1: Acceleration (g)
  Column 2: Mean
  Column 3: Frankel (1996) USGS 2008 Truncated Mw
  Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
  Column 5: Silva et al (2002) USGS 2008 Mw
  Column 6: Campbell (2003) USGS 2008 Mw
  Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
  Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
  Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
  Column 10: Atkinson (2008p) USGS 2014 Table Soil
  Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 12: Boore-et al (2014) NGA West 2 USGS 2014
  Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14

 1.0e-004 1.817e-001 9.430e-003 9.430e-003 9.430e-003 9.430e-003 9.430e-003 9.430e-003 9.430e-003 9.430e-003 1.723e-001
1.723e-001 1.723e-001 1.723e-001
 5.0e-004 1.814e-001 9.430e-003 9.428e-003 9.430e-003 9.430e-003 9.430e-003 9.430e-003 9.426e-003 1.720e-001
1.722e-001 1.719e-001 1.718e-001
 1.0e-003 1.793e-001 9.430e-003 9.404e-003 9.430e-003 9.426e-003 9.417e-003 9.424e-003 9.361e-003 1.701e-001
1.713e-001 1.693e-001 1.689e-001
 5.0e-003 1.430e-001 9.298e-003 9.310e-003 8.143e-003 9.411e-003 8.638e-003 7.809e-003 8.404e-003 6.958e-003 1.355e-001
1.456e-001 1.289e-001 1.281e-001
 7.0e-003 1.277e-001 9.089e-003 9.109e-003 7.331e-003 9.356e-003 7.915e-003 6.653e-003 7.521e-003 5.861e-003 1.212e-001
1.325e-001 1.132e-001 1.128e-001
    0.010 1.098e-001 8.638e-003 8.663e-003 6.248e-003 9.182e-003 6.816e-003 5.168e-003 6.236e-003 4.654e-003 1.047e-001
1.162e-001 9.558e-002 9.572e-002
    0.020 7.474e-002 6.807e-003 6.786e-003 3.899e-003 8.007e-003 4.137e-003 2.410e-003 3.351e-003 2.607e-003 7.297e-002
8.121e-002 6.298e-002 6.401e-002
    0.050 3.716e-002 3.248e-003 3.109e-003 1.507e-003 4.270e-003 1.356e-003 5.090e-004 8.399e-004 9.169e-004 3.903e-002
4.042e-002 3.041e-002 3.178e-002
    0.070 2.714e-002 2.156e-003 2.008e-003 9.776e-004 2.823e-003 7.946e-004 2.493e-004 4.344e-004 5.617e-004 2.961e-002
2.923e-002 2.203e-002 2.332e-002
    0.100 1.880e-002 1.292e-003 1.162e-003 5.914e-004 1.618e-003 4.207e-004 1.099e-004 2.002e-004 3.078e-004 2.142e-002
1.990e-002 1.513e-002 1.629e-002
    0.200 8.378e-003 3.894e-004 3.252e-004 1.988e-004 3.921e-004 1.013e-004 2.121e-005 3.972e-005 7.263e-005 1.033e-002
8.452e-003 6.654e-003 7.438e-003
    0.300 4.924e-003 1.735e-004 1.407e-004 9.836e-005 1.444e-004 4.133e-005 8.892e-006 1.568e-005 2.618e-005 6.287e-003
4.833e-003 3.882e-003 4.431e-003
    0.400 3.243e-003 9.386e-005 7.577e-005 5.788e-005 6.840e-005 2.238e-005 5.135e-006 8.444e-006 1.187e-005 4.237e-003
3.145e-003 2.505e-003 2.950e-003
    0.500 2.257e-003 5.697e-005 4.634e-005 3.764e-005 3.846e-005 1.434e-005 3.435e-006 5.348e-006 6.271e-006 3.007e-003
2.187e-003 1.675e-003 2.075e-003
    0.600 1.616e-003 3.730e-005 3.074e-005 2.612e-005 2.424e-005 1.017e-005 2.481e-006 3.719e-006 3.702e-006 2.191e-003
1.580e-003 1.134e-003 1.504e-003
    0.700 1.177e-003 2.576e-005 2.156e-005 1.897e-005 1.651e-005 7.670e-006 1.875e-006 2.736e-006 2.377e-006 1.617e-003
1.172e-003 7.708e-004 1.107e-003
    0.800 8.656e-004 1.852e-005 1.575e-005 1.427e-005 1.188e-005 6.016e-006 1.461e-006 2.090e-006 1.629e-006 1.201e-003
8.857e-004 5.250e-004 8.216e-004
    1.000 4.782e-004 1.044e-005 9.154e-006 8.691e-006 6.858e-006 3.976e-006 9.424e-007 1.311e-006 8.779e-007 6.674e-004
5.268e-004 2.449e-004 4.567e-004
    1.200 2.697e-004 6.400e-006 5.760e-006 5.684e-006 4.333e-006 2.785e-006 6.431e-007 8.743e-007 5.348e-007 3.719e-004
3.266e-004 1.148e-004 2.546e-004
    1.500 1.182e-004 3.415e-006 3.170e-006 3.287e-006 2.399e-006 1.744e-006 3.888e-007 5.123e-007 2.915e-007 1.552e-004
1.686e-004 3.695e-005 1.059e-004
    2.000 3.275e-005 1.442e-006 1.378e-006 1.537e-006 1.035e-006 8.857e-007 1.890e-007 2.372e-007 1.292e-007 3.643e-005
6.223e-005 4.955e-006 2.459e-005
    3.000 3.414e-006 3.732e-007 3.571e-007 4.526e-007 2.517e-007 2.756e-007 5.642e-008 6.549e-008 3.514e-008 1.547e-006
1.054e-005 2.537e-306 7.985e-007
    4.000 5.173e-007 1.168e-007 1.081e-007 1.538e-007 6.900e-008 9.204e-008 1.868e-008 2.068e-008 1.097e-008 2.537e-306
1.829e-006 2.537e-306 2.537e-306
    5.000 2.015e-008 3.303e-008 2.897e-008 4.563e-008 1.678e-008 2.617e-008 5.356e-009 5.846e-009 2.847e-009 2.537e-306
1.431e-008 2.537e-306 2.537e-306
    7.000 2.893e-306 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 2.537e-306
2.537e-306 2.537e-306 2.537e-306
   10.000 2.893e-306 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 2.537e-306
2.537e-306 2.537e-306 2.537e-306

SPECTRAL PERIOD: 0.2
- **Column 1: Acceleration (g)**
- **Column 2: Mean**
- **Column 3: Frankel (1996) USGS 2008 Truncated Mw**
- **Column 4: Toro (1999) Midcontinent - USGS 2008 Mw**
- **Column 5: Silva et al (2002) USGS 2008 Mw**
- **Column 6: Campbell (2003) USGS 2008 Mw**
- **Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw**
- **Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil**
- **Column 9: Pezeshk et al (2011) USGS 2014 Table Soil**
- **Column 10: Atkinson (2008p) USGS 2014 Table Soil**
- **Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014**
- **Column 12: Boore-et al (2014) NGA West 2 USGS 2014**
- **Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014**
- **Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014**

       1   2   3   4   5   6   7   8   9   10   11
12   13   14
 1.0e-004 1.817e-001 9.430e-003 9.430e-003 9.430e-003 9.430e-003 9.430e-003 9.430e-003 9.430e-003 9.430e-003 1.723e-001
1.723e-001 1.723e-001 1.723e-001
 5.0e-004 1.816e-001 9.430e-003 9.430e-003 9.427e-003 9.430e-003 9.430e-003 9.430e-003 9.430e-003 9.424e-003 1.722e-001
1.723e-001 1.722e-001 1.721e-001
 1.0e-003 1.805e-001 9.430e-003 9.430e-003 9.392e-003 9.430e-003 9.429e-003 9.413e-003 9.423e-003 9.344e-003 1.710e-001
1.718e-001 1.709e-001 1.707e-001
 5.0e-003 1.511e-001 9.329e-003 9.319e-003 7.857e-003 9.399e-003 8.909e-003 7.573e-003 8.336e-003 6.709e-003 1.419e-001
1.508e-001 1.392e-001 1.389e-001
 7.0e-003 1.365e-001 9.159e-003 9.128e-003 6.952e-003 9.320e-003 8.327e-003 6.351e-003 7.419e-003 5.580e-003 1.283e-001
1.384e-001 1.244e-001 1.244e-001
    0.010 1.188e-001 8.774e-003 8.696e-003 5.801e-003 9.090e-003 7.342e-003 4.849e-003 6.107e-003 4.370e-003 1.120e-001
1.224e-001 1.067e-001 1.072e-001
    0.020 8.222e-002 7.097e-003 6.840e-003 3.461e-003 7.699e-003 4.601e-003 2.205e-003 3.238e-003 2.387e-003 7.941e-002
8.713e-002 7.181e-002 7.300e-002
    0.050 4.160e-002 3.548e-003 3.125e-003 1.267e-003 3.834e-003 1.450e-003 4.647e-004 8.100e-004 8.108e-004 4.331e-002
4.458e-002 3.513e-002 3.662e-002
    0.070 3.060e-002 2.394e-003 2.006e-003 8.079e-004 2.469e-003 8.162e-004 2.287e-004 4.210e-004 4.883e-004 3.314e-002
3.256e-002 2.554e-002 2.697e-002

0.100	2.134e-002	1.458e-003	1.149e-003	4.808e-004	1.381e-003	4.095e-004	1.008e-004	1.952e-004	2.618e-004	2.421e-002	2.235e-002	1.759e-002	1.890e-002
0.200	9.636e-003	4.495e-004	3.107e-004	1.569e-004	3.240e-004	8.998e-005	1.865e-005	3.866e-005	5.826e-005	1.194e-002	9.555e-003	7.759e-003	8.702e-003
0.300	5.741e-003	2.020e-004	1.307e-004	7.622e-005	1.178e-004	3.604e-005	7.421e-006	1.486e-005	2.005e-005	7.408e-003	5.509e-003	4.560e-003	5.250e-003
0.400	3.857e-003	1.098e-004	6.886e-005	4.423e-005	5.543e-005	1.949e-005	4.125e-006	7.772e-006	8.752e-006	5.100e-003	3.644e-003	2.999e-003	3.561e-003
0.500	2.751e-003	6.682e-005	4.140e-005	2.843e-005	3.084e-005	1.249e-005	2.690e-006	4.809e-006	4.471e-006	3.719e-003	2.585e-003	2.059e-003	2.567e-003
0.600	2.026e-003	4.384e-005	2.707e-005	1.953e-005	1.920e-005	8.823e-006	1.906e-006	3.285e-006	2.559e-006	2.801e-003	1.905e-003	1.434e-003	1.917e-003
0.700	1.521e-003	3.033e-005	1.876e-005	1.407e-005	1.291e-005	6.616e-006	1.419e-006	2.385e-006	1.598e-006	2.148e-003	1.437e-003	1.003e-003	1.463e-003
0.800	1.155e-003	2.184e-005	1.356e-005	1.050e-005	9.184e-006	5.152e-006	1.090e-006	1.803e-006	1.066e-006	1.663e-003	1.101e-003	7.020e-004	1.130e-003
1.000	6.810e-004	1.235e-005	7.743e-006	6.313e-006	5.189e-006	3.349e-006	6.867e-007	1.114e-006	5.470e-007	1.009e-003	6.687e-004	3.442e-004	6.881e-004
1.200	4.089e-004	7.584e-006	4.804e-006	4.083e-006	3.218e-006	2.306e-006	4.592e-007	7.350e-007	3.185e-007	6.145e-004	4.194e-004	1.691e-004	4.233e-004
1.500	1.948e-004	4.056e-006	2.598e-006	2.328e-006	1.737e-006	1.407e-006	2.702e-007	4.249e-007	1.634e-007	2.923e-004	2.178e-004	5.845e-005	2.056e-004
2.000	5.945e-005	1.717e-006	1.104e-006	1.068e-006	7.215e-007	6.843e-007	1.267e-007	1.937e-007	6.649e-008	8.493e-005	7.963e-005	9.064e-006	6.191e-005
3.000	6.446e-006	4.461e-007	2.765e-007	3.049e-007	1.629e-007	1.958e-007	3.561e-008	5.231e-008	1.577e-008	6.749e-006	1.281e-005	1.030e-009	5.639e-006
4.000	5.706e-007	1.404e-007	8.117e-008	1.013e-007	4.172e-008	6.073e-008	1.128e-008	1.636e-008	4.321e-009	1.021e-008	2.077e-006	2.537e-306	1.790e-008
5.000	1.339e-008	3.980e-008	2.119e-008	2.949e-008	9.645e-009	1.629e-008	3.126e-009	4.414e-009	1.092e-009	2.537e-306	6.127e-009	2.537e-306	2.537e-306
7.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
10.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

SPECTRAL PERIOD: 0.25

- **Column 1: Acceleration (g)**
- **Column 2: Mean**
- **Column 3: Frankel (1996) USGS 2008 Truncated Mw**
- **Column 4: Toro (1999) Midcontinent - USGS 2008 Mw**
- **Column 5: Silva et al (2002) USGS 2008 Mw**
- **Column 6: Campbell (2003) USGS 2008 Mw**
- **Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw**
- **Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil**
- **Column 9: Pezeshk et al (2011) USGS 2014 Table Soil**
- **Column 10: Atkinson (2008p) USGS 2014 Table Soil**
- **Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014**
- **Column 12: Boore-et al (2014) NGA West 2 USGS 2014**
- **Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014**
- **Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014**

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.817e-001	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	1.723e-001	1.723e-001	1.723e-001	1.723e-001
5.0e-004	1.817e-001	9.430e-003	9.430e-003	9.422e-003	9.430e-003	9.430e-003	9.428e-003	9.430e-003	9.413e-003	1.722e-001	1.723e-001	1.723e-001	1.722e-001
1.0e-003	1.809e-001	9.430e-003	9.430e-003	9.351e-003	9.430e-003	9.430e-003	9.385e-003	9.414e-003	9.240e-003	1.713e-001	1.720e-001	1.716e-001	1.712e-001
5.0e-003	1.548e-001	9.280e-003	9.225e-003	7.279e-003	9.368e-003	9.068e-003	6.773e-003	7.864e-003	5.840e-003	1.445e-001	1.522e-001	1.463e-001	1.443e-001
7.0e-003	1.407e-001	9.049e-003	8.925e-003	6.257e-003	9.231e-003	8.621e-003	5.421e-003	6.769e-003	4.688e-003	1.311e-001	1.398e-001	1.326e-001	1.306e-001
0.010	1.230e-001	8.562e-003	8.317e-003	5.053e-003	8.874e-003	7.809e-003	3.939e-003	5.344e-003	3.550e-003	1.147e-001	1.235e-001	1.154e-001	1.136e-001
0.020	8.556e-002	6.649e-003	6.102e-003	2.836e-003	7.078e-003	5.288e-003	1.662e-003	2.611e-003	1.830e-003	8.135e-002	8.742e-002	7.931e-002	7.838e-002
0.050	4.336e-002	3.095e-003	2.486e-003	9.765e-004	3.099e-003	1.902e-003	3.338e-004	6.080e-004	5.621e-004	4.418e-002	4.473e-002	3.928e-002	3.948e-002
0.070	3.191e-002	2.038e-003	1.538e-003	6.120e-004	1.903e-003	1.125e-003	1.627e-004	3.117e-004	3.207e-004	3.375e-002	3.273e-002	2.861e-002	2.906e-002
0.100	2.226e-002	1.213e-003	8.526e-004	3.587e-004	1.018e-003	5.925e-004	7.077e-005	1.439e-004	1.606e-004	2.461e-002	2.248e-002	1.971e-002	2.036e-002
0.200	1.003e-002	3.610e-004	2.205e-004	1.137e-004	2.243e-004	1.355e-004	1.263e-005	2.814e-005	3.050e-005	1.209e-002	9.562e-003	8.638e-003	9.377e-003
0.300	5.985e-003	1.593e-004	9.146e-005	5.414e-005	8.028e-005	5.165e-005	4.903e-006	1.059e-005	9.500e-006	7.501e-003	5.508e-003	5.059e-003	5.688e-003
0.400	4.046e-003	8.533e-005	4.767e-005	3.093e-005	3.766e-005	2.582e-005	2.677e-006	5.422e-006	3.886e-006	5.186e-003	3.656e-003	3.353e-003	3.896e-003
0.500	2.918e-003	5.123e-005	2.833e-005	1.962e-005	2.091e-005	1.536e-005	1.715e-006	3.289e-006	1.901e-006	3.813e-003	2.609e-003	2.346e-003	2.849e-003
0.600	2.181e-003	3.318e-005	1.831e-005	1.333e-005	1.300e-005	1.025e-005	1.194e-006	2.206e-006	1.060e-006	2.909e-003	1.935e-003	1.680e-003	2.166e-003
0.700	1.666e-003	2.268e-005	1.255e-005	9.514e-006	8.730e-006	7.395e-006	8.725e-007	1.575e-006	6.501e-007	2.268e-003	1.468e-003	1.214e-003	1.688e-003
0.800	1.289e-003	1.615e-005	8.981e-006	7.040e-006	6.194e-006	5.619e-006	6.588e-007	1.173e-006	4.274e-007	1.791e-003	1.130e-003	8.814e-004	1.336e-003
1.000	7.918e-004	8.952e-006	5.041e-006	4.174e-006	3.472e-006	3.574e-006	4.015e-007	7.041e-007	2.133e-007	1.138e-003	6.907e-004	4.664e-004	8.615e-004

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    1.200  4.961e-004  5.407e-006  3.083e-006  2.669e-006  2.125e-006  2.453e-006  2.607e-007  4.523e-007  1.204e-007  7.302e-004
4.347e-004  2.477e-004  5.654e-004
    1.500  2.518e-004  2.834e-006  1.638e-006  1.502e-006  1.120e-006  1.511e-006  1.475e-007  2.527e-007  5.871e-008  3.764e-004
2.259e-004  9.650e-005  3.046e-004
    2.000  8.464e-005  1.170e-006  6.801e-007  6.770e-007  4.451e-007  7.576e-007  6.520e-008  1.102e-007  2.182e-008  1.252e-004
8.197e-005  1.973e-005  1.101e-004
    3.000  1.056e-005  2.938e-007  1.645e-007  1.888e-007  9.125e-008  2.336e-007  1.666e-008  2.786e-008  4.438e-009  1.383e-005
1.281e-005  2.090e-007  1.501e-005
    4.000  1.197e-006  9.069e-008  4.742e-008  6.185e-008  2.146e-008  7.786e-008  4.913e-009  8.058e-009  1.157e-009  9.970e-007
1.948e-006  2.537e-306  1.721e-006
    5.000  9.043e-009  2.548e-008  1.235e-008  1.796e-008  4.733e-009  2.221e-008  1.290e-009  2.086e-009  2.898e-010  2.537e-306
2.597e-009  2.537e-306  6.040e-015
    7.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
   10.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306

SPECTRAL PERIOD: 0.3
  Column 1: Acceleration (g)
  Column 2: Mean
  Column 3: Frankel (1996) USGS 2008 Truncated Mw
  Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
  Column 5: Silva et al (2002) USGS 2008 Mw
  Column 6: Campbell (2003) USGS 2008 Mw
  Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
  Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
  Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
  Column 10: Atkinson (2008p) USGS 2014 Table Soil
  Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 12: Boore-et al (2014) NGA West 2 USGS 2014
  Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

        1           2           3           4           5           6           7           8           9          10          11
12          13          14
 1.0e-004  1.817e-001  9.430e-003  9.430e-003  9.430e-003  9.430e-003  9.430e-003  9.430e-003  9.430e-003  9.430e-003  1.723e-001
1.723e-001  1.723e-001  1.723e-001
 5.0e-004  1.817e-001  9.430e-003  9.430e-003  9.414e-003  9.430e-003  9.430e-003  9.425e-003  9.429e-003  9.391e-003  1.722e-001
1.723e-001  1.723e-001  1.722e-001
 1.0e-003  1.810e-001  9.430e-003  9.295e-003  9.430e-003  9.430e-003  9.338e-003  9.401e-003  9.093e-003  1.713e-001
1.720e-001  1.718e-001  1.714e-001
 5.0e-003  1.559e-001  9.225e-003  9.105e-003  6.748e-003  9.324e-003  9.165e-003  6.046e-003  7.401e-003  5.106e-003  1.440e-001
1.521e-001  1.505e-001  1.465e-001
 7.0e-003  1.419e-001  8.935e-003  8.690e-003  5.660e-003  9.118e-003  8.810e-003  4.664e-003  6.184e-003  3.991e-003  1.302e-001
1.393e-001  1.379e-001  1.331e-001
    0.010  1.242e-001  8.355e-003  7.922e-003  4.452e-003  8.629e-003  8.130e-003  3.272e-003  4.718e-003  2.947e-003  1.134e-001
1.224e-001  1.215e-001  1.163e-001
    0.020  8.632e-002  6.258e-003  5.464e-003  2.386e-003  6.500e-003  5.826e-003  1.318e-003  2.169e-003  1.452e-003  7.961e-002
8.555e-002  8.510e-002  8.054e-002
    0.050  4.355e-002  2.751e-003  2.038e-003  7.855e-004  2.563e-003  2.321e-003  2.578e-004  4.827e-004  4.065e-004  4.267e-002
4.341e-002  4.259e-002  4.041e-002
    0.070  3.199e-002  1.779e-003  1.230e-003  4.863e-004  1.520e-003  1.430e-003  1.244e-004  2.457e-004  2.206e-004  3.245e-002
3.173e-002  3.104e-002  2.965e-002
    0.100  2.226e-002  1.042e-003  6.672e-004  2.816e-004  7.882e-004  7.864e-004  5.328e-005  1.133e-004  1.039e-004  2.356e-002
2.176e-002  2.139e-002  2.068e-002
    0.200  9.974e-003  3.019e-004  1.683e-004  8.711e-005  1.667e-004  1.918e-004  9.135e-006  2.169e-005  1.713e-005  1.149e-002
9.214e-003  9.337e-003  9.461e-003
    0.300  5.944e-003  1.313e-004  6.918e-005  4.081e-005  5.917e-005  7.302e-005  3.462e-006  7.979e-006  4.902e-006  7.119e-003
5.311e-003  5.452e-003  5.737e-003
    0.400  4.032e-003  6.944e-005  3.572e-005  2.303e-005  2.765e-005  3.518e-005  1.860e-006  4.003e-006  1.899e-006  4.938e-003
3.541e-003  3.625e-003  3.944e-003
    0.500  2.928e-003  4.122e-005  2.102e-005  1.447e-005  1.533e-005  1.984e-005  1.174e-006  2.387e-006  9.014e-007  3.656e-003
2.540e-003  2.569e-003  2.902e-003
    0.600  2.212e-003  2.640e-005  1.347e-005  9.751e-006  9.529e-006  1.257e-005  8.049e-007  1.578e-006  4.945e-007  2.818e-003
1.894e-003  1.880e-003  2.226e-003
    0.700  1.711e-003  1.788e-005  9.164e-006  6.912e-006  6.398e-006  8.663e-006  5.793e-007  1.112e-006  2.996e-007  2.227e-003
1.444e-003  1.401e-003  1.754e-003
    0.800  1.345e-003  1.262e-005  6.513e-006  5.086e-006  4.533e-006  6.359e-006  4.309e-007  8.181e-007  1.951e-007  1.788e-003
1.118e-003  1.054e-003  1.407e-003
    1.000  8.559e-004  6.887e-006  3.614e-006  2.988e-006  2.520e-006  3.884e-006  2.558e-007  4.801e-007  9.503e-008  1.183e-003
6.897e-004  6.072e-004  9.359e-004
    1.200  5.573e-004  4.108e-006  2.190e-006  1.897e-006  1.524e-006  2.626e-006  1.621e-007  3.027e-007  5.225e-008  7.946e-004
4.376e-004  3.547e-004  6.371e-004
    1.500  3.000e-004  2.120e-006  1.151e-006  1.058e-006  7.856e-007  1.616e-006  8.863e-008  1.653e-007  2.434e-008  4.418e-004
2.296e-004  1.614e-004  3.646e-004
    2.000  1.112e-004  8.591e-007  4.709e-007  4.719e-007  2.985e-007  8.261e-007  3.723e-008  6.971e-008  8.556e-009  1.678e-004
8.407e-005  4.497e-005  1.468e-004
    3.000  1.678e-005  2.106e-007  1.115e-007  1.299e-007  5.578e-008  2.695e-007  8.792e-009  1.663e-008  1.639e-009  2.508e-005
1.327e-005  3.348e-006  2.511e-005
    4.000  2.458e-006  6.389e-008  3.154e-008  4.219e-008  1.198e-008  9.490e-008  2.421e-009  4.681e-009  4.094e-010  3.405e-006
2.026e-006  2.076e-015  4.296e-006
    5.000  7.293e-008  1.773e-008  7.962e-009  1.201e-008  2.232e-009  2.831e-008  5.892e-010  1.193e-009  9.243e-011  1.509e-008
2.074e-009  2.537e-306  2.460e-007
    7.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
   10.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306

SPECTRAL PERIOD: 0.4
  Column 1: Acceleration (g)
```

Column 2: Mean
Column 3: Frankel (1996) USGS 2008 Truncated Mw
Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
Column 5: Silva et al (2002) USGS 2008 Mw
Column 6: Campbell (2003) USGS 2008 Mw
Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
Column 10: Atkinson (2008p) USGS 2014 Table Soil
Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 12: Boore-et al (2014) NGA West 2 USGS 2014
Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.817e-001	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	1.723e-001	1.723e-001	1.723e-001	1.723e-001
5.0e-004	1.817e-001	9.430e-003	9.430e-003	9.379e-003	9.430e-003	9.429e-003	9.403e-003	9.419e-003	9.264e-003	1.723e-001	1.723e-001	1.723e-001	1.722e-001
1.0e-003	1.809e-001	9.429e-003	9.427e-003	9.111e-003	9.430e-003	9.409e-003	9.141e-003	9.290e-003	8.513e-003	1.715e-001	1.719e-001	1.718e-001	1.714e-001
5.0e-003	1.531e-001	8.953e-003	8.687e-003	5.690e-003	8.990e-003	7.882e-003	4.668e-003	5.790e-003	3.682e-003	1.443e-001	1.479e-001	1.475e-001	1.461e-001
7.0e-003	1.381e-001	8.435e-003	7.979e-003	4.570e-003	8.440e-003	6.868e-003	3.394e-003	4.431e-003	2.753e-003	1.300e-001	1.335e-001	1.338e-001	1.326e-001
0.010	1.194e-001	7.561e-003	6.879e-003	3.441e-003	7.466e-003	5.560e-003	2.264e-003	3.086e-003	1.953e-003	1.125e-001	1.152e-001	1.164e-001	1.155e-001
0.020	8.102e-002	5.079e-003	4.144e-003	1.720e-003	4.665e-003	2.986e-003	8.586e-004	1.234e-003	8.864e-004	7.747e-002	7.804e-002	7.949e-002	7.939e-002
0.050	3.987e-002	1.944e-003	1.314e-003	5.344e-004	1.448e-003	8.676e-004	1.597e-004	2.509e-004	2.094e-004	4.046e-002	3.848e-002	3.862e-002	3.905e-002
0.070	2.905e-002	1.212e-003	7.603e-004	3.261e-004	8.114e-004	4.920e-004	7.507e-005	1.263e-004	1.049e-004	3.049e-002	2.783e-002	2.789e-002	2.837e-002
0.100	2.006e-002	6.875e-004	3.988e-004	1.861e-004	4.045e-004	2.516e-004	3.113e-005	5.725e-005	4.512e-005	2.190e-002	1.884e-002	1.907e-002	1.958e-002
0.200	8.892e-003	1.903e-004	9.718e-005	5.553e-005	8.329e-005	5.421e-005	5.040e-006	1.053e-005	6.223e-006	1.042e-002	7.832e-003	8.318e-003	8.809e-003
0.300	5.298e-003	8.035e-005	3.911e-005	2.532e-005	2.907e-005	1.947e-005	1.883e-006	3.783e-006	1.650e-006	6.364e-003	4.509e-003	4.914e-003	5.327e-003
0.400	3.607e-003	4.132e-005	1.976e-005	1.397e-005	1.332e-005	9.320e-006	1.001e-006	1.868e-006	6.252e-007	4.390e-003	3.008e-003	3.318e-003	3.675e-003
0.500	2.637e-003	2.390e-005	1.141e-005	8.617e-006	7.252e-006	5.381e-006	6.222e-007	1.095e-006	3.009e-007	3.252e-003	2.154e-003	2.395e-003	2.723e-003
0.600	2.010e-003	1.497e-005	7.182e-006	5.719e-006	4.432e-006	3.513e-006	4.181e-007	7.104e-007	1.681e-007	2.520e-003	1.601e-003	1.795e-003	2.109e-003
0.700	1.574e-003	9.934e-006	4.809e-006	3.999e-006	2.929e-006	2.484e-006	2.946e-007	4.910e-007	1.031e-007	2.011e-003	1.217e-003	1.375e-003	1.683e-003
0.800	1.255e-003	6.889e-006	3.372e-006	2.909e-006	2.041e-006	1.848e-006	2.147e-007	3.536e-007	6.724e-008	1.637e-003	9.388e-004	1.069e-003	1.370e-003
1.000	8.272e-004	3.651e-006	1.830e-006	1.676e-006	1.098e-006	1.125e-006	1.225e-007	1.996e-007	3.221e-008	1.123e-003	5.757e-004	6.642e-004	9.426e-004
1.200	5.613e-004	2.128e-006	1.090e-006	1.048e-006	6.420e-007	7.372e-007	7.468e-008	1.214e-007	1.706e-008	7.899e-004	3.633e-004	4.226e-004	6.672e-004
1.500	3.237e-004	1.072e-006	5.607e-007	5.743e-007	3.140e-007	4.239e-007	3.879e-008	6.315e-008	7.542e-009	4.760e-004	1.894e-004	2.211e-004	4.071e-004
2.000	1.358e-004	4.246e-007	2.239e-007	2.506e-007	1.100e-007	1.907e-007	1.511e-008	2.473e-008	2.419e-009	2.105e-004	6.860e-005	7.957e-005	1.840e-004
3.000	2.672e-005	1.024e-007	5.129e-008	6.692e-008	1.748e-008	4.816e-008	3.070e-009	5.300e-009	3.890e-010	4.431e-005	1.057e-005	1.172e-005	4.016e-005
4.000	5.507e-006	3.093e-008	1.426e-008	2.117e-008	3.079e-009	1.355e-008	7.149e-010	1.351e-009	6.952e-011	9.693e-006	1.455e-006	1.569e-006	9.282e-006
5.000	9.245e-007	8.559e-009	3.600e-009	5.963e-009	4.631e-010	3.356e-009	1.459e-010	3.058e-010	7.827e-012	1.835e-006	1.307e-009	2.169e-013	1.853e-006
7.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
10.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

SPECTRAL PERIOD: 0.5
Column 1: Acceleration (g)
Column 2: Mean
Column 3: Frankel (1996) USGS 2008 Truncated Mw
Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
Column 5: Silva et al (2002) USGS 2008 Mw
Column 6: Campbell (2003) USGS 2008 Mw
Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
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Column 12: Boore-et al (2014) NGA West 2 USGS 2014
Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.817e-001	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.430e-003	9.429e-003	1.723e-001	1.723e-001	1.723e-001	1.723e-001

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 5.0e-004  1.816e-001  9.430e-003  9.430e-003  9.319e-003  9.430e-003  9.412e-003  9.351e-003  9.385e-003  9.010e-003  1.722e-001
1.723e-001  1.723e-001  1.722e-001
 1.0e-003  1.804e-001  9.425e-003  9.419e-003  8.864e-003  9.425e-003  9.255e-003  8.825e-003  9.050e-003  7.752e-003  1.713e-001
1.716e-001  1.716e-001  1.711e-001
 5.0e-003  1.479e-001  8.596e-003  8.163e-003  4.853e-003  8.411e-003  5.938e-003  3.692e-003  4.452e-003  2.757e-003  1.405e-001
1.418e-001  1.441e-001  1.428e-001
 7.0e-003  1.319e-001  7.870e-003  7.212e-003  3.779e-003  7.514e-003  4.693e-003  2.597e-003  3.206e-003  2.008e-003  1.252e-001
1.261e-001  1.295e-001  1.287e-001
    0.010  1.127e-001  6.787e-003  5.916e-003  2.763e-003  6.215e-003  3.430e-003  1.690e-003  2.115e-003  1.388e-003  1.070e-001
1.073e-001  1.114e-001  1.112e-001
    0.020  7.498e-002  4.192e-003  3.219e-003  1.323e-003  3.368e-003  1.565e-003  6.234e-004  7.916e-004  5.889e-004  7.208e-002
7.114e-002  7.457e-002  7.524e-002
    0.050  3.623e-002  1.472e-003  9.258e-004  3.975e-004  9.221e-004  3.984e-004  1.111e-004  1.555e-004  1.213e-004  3.690e-002
3.449e-002  3.539e-002  3.628e-002
    0.070  2.624e-002  8.982e-004  5.242e-004  2.403e-004  5.058e-004  2.171e-004  5.093e-005  7.707e-005  5.727e-005  2.763e-002
2.478e-002  2.536e-002  2.615e-002
    0.100  1.800e-002  5.001e-004  2.713e-004  1.355e-004  2.494e-004  1.053e-004  2.050e-005  3.418e-005  2.302e-005  1.968e-002
1.666e-002  1.722e-002  1.790e-002
    0.200  7.908e-003  1.337e-004  6.476e-005  3.927e-005  5.014e-005  2.017e-005  3.165e-006  5.997e-006  2.826e-006  9.165e-003
6.922e-003  7.473e-003  7.953e-003
    0.300  4.705e-003  5.489e-005  2.554e-005  1.754e-005  1.709e-005  7.074e-006  1.173e-006  2.109e-006  7.153e-007  5.519e-003
4.014e-003  4.433e-003  4.806e-003
    0.400  3.204e-003  2.757e-005  1.270e-005  9.525e-006  7.715e-006  3.473e-006  6.201e-007  1.028e-006  2.732e-007  3.769e-003
2.690e-003  3.008e-003  3.327e-003
    0.500  2.345e-003  1.565e-005  7.230e-006  5.803e-006  4.172e-006  2.067e-006  3.803e-007  5.963e-007  1.339e-007  2.770e-003
1.932e-003  2.185e-003  2.479e-003
    0.600  1.791e-003  9.646e-006  4.501e-006  3.814e-006  2.540e-006  1.371e-006  2.511e-007  3.827e-007  7.520e-008  2.132e-003
1.440e-003  1.650e-003  1.935e-003
    0.700  1.407e-003  6.319e-006  2.989e-006  2.646e-006  1.671e-006  9.701e-007  1.738e-007  2.606e-007  4.577e-008  1.690e-003
1.098e-003  1.277e-003  1.558e-003
    0.800  1.127e-003  4.332e-006  2.081e-006  1.912e-006  1.158e-006  7.138e-007  1.244e-007  1.853e-007  2.936e-008  1.366e-003
8.510e-004  1.005e-003  1.281e-003
    1.000  7.497e-004  2.257e-006  1.118e-006  1.091e-006  6.133e-007  4.165e-007  6.861e-008  1.020e-007  1.341e-008  9.240e-004
5.279e-004  6.435e-004  9.013e-004
    1.200  5.144e-004  1.302e-006  6.614e-007  6.773e-007  3.512e-007  2.590e-007  4.057e-008  6.037e-008  6.844e-009  6.408e-004
3.380e-004  4.241e-004  6.536e-004
    1.500  3.025e-004  6.503e-007  3.381e-007  3.682e-007  1.663e-007  1.368e-007  2.015e-008  3.024e-008  2.861e-009  3.785e-004
1.807e-004  2.355e-004  4.146e-004
    2.000  1.319e-004  2.557e-007  1.337e-007  1.592e-007  5.473e-008  5.322e-008  7.267e-009  1.131e-008  8.408e-010  1.633e-004
6.869e-005  9.468e-005  2.006e-004
    3.000  2.841e-005  6.086e-008  3.012e-008  4.198e-008  7.387e-009  1.026e-008  1.249e-009  2.175e-009  9.564e-011  3.338e-005
1.189e-005  1.802e-005  5.029e-005
    4.000  6.518e-006  1.791e-008  8.136e-009  1.321e-008  1.046e-009  2.213e-009  2.336e-010  4.839e-010  5.647e-012  7.094e-006
2.031e-006  3.688e-006  1.324e-005
    5.000  1.176e-006  4.816e-009  1.988e-009  3.696e-009  1.079e-010  4.078e-010  3.391e-011  9.563e-011  3.560e-307  1.197e-006
3.253e-008  3.760e-007  3.094e-006
    7.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
   10.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306

SPECTRAL PERIOD: 0.75
  Column 1: Acceleration (g)
  Column 2: Mean
  Column 3: Frankel (1996) USGS 2008 Truncated Mw
  Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
  Column 5: Silva et al (2002) USGS 2008 Mw
  Column 6: Campbell (2003) USGS 2008 Mw
  Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
  Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
  Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
  Column 10: Atkinson (2008p) USGS 2014 Table Soil
  Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 12: Boore-et al (2014) NGA West 2 USGS 2014
  Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

        1           2           3           4           5           6           7           8           9          10          11
12          13          14
 1.0e-004  1.817e-001  9.430e-003  9.430e-003  9.424e-003  9.430e-003  9.430e-003  9.428e-003  9.429e-003  9.399e-003  1.723e-001
1.723e-001  1.723e-001  1.723e-001
 5.0e-004  1.809e-001  9.422e-003  9.421e-003  8.909e-003  9.427e-003  9.326e-003  8.714e-003  8.927e-003  7.582e-003  1.717e-001
1.720e-001  1.721e-001  1.719e-001
 1.0e-003  1.771e-001  9.340e-003  9.328e-003  7.784e-003  9.372e-003  8.816e-003  6.953e-003  7.489e-003  5.421e-003  1.678e-001
1.691e-001  1.705e-001  1.692e-001
 5.0e-003  1.272e-001  6.858e-003  6.522e-003  3.130e-003  6.765e-003  4.190e-003  1.784e-003  2.056e-003  1.479e-003  1.145e-001
1.192e-001  1.331e-001  1.272e-001
 7.0e-003  1.095e-001  5.726e-003  5.283e-003  2.315e-003  5.475e-003  3.083e-003  1.190e-003  1.360e-003  1.044e-003  9.724e-002
1.017e-001  1.168e-001  1.108e-001
    0.010  9.053e-002  4.470e-003  3.951e-003  1.623e-003  4.064e-003  2.110e-003  7.421e-004  8.407e-004  6.887e-004  7.964e-002
8.355e-002  9.819e-002  9.250e-002
    0.020  5.747e-002  2.357e-003  1.855e-003  7.383e-004  1.855e-003  8.741e-004  2.518e-004  2.913e-004  2.526e-004  5.087e-002
5.312e-002  6.309e-002  5.914e-002
    0.050  2.653e-002  7.520e-004  4.881e-004  2.152e-004  4.621e-004  1.996e-004  3.746e-005  5.054e-005  3.899e-005  2.515e-002
2.452e-002  2.859e-002  2.696e-002
    0.070  1.887e-002  4.539e-004  2.746e-004  1.285e-004  2.514e-004  1.028e-004  1.583e-005  2.339e-005  1.619e-005  1.855e-002
1.719e-002  2.015e-002  1.908e-002
    0.100  1.271e-002  2.511e-004  1.420e-004  7.131e-005  1.224e-004  4.634e-005  5.884e-006  9.588e-006  5.638e-006  1.296e-002
1.131e-002  1.348e-002  1.284e-002
```

```
    0.200  5.477e-003  6.546e-005  3.347e-005  1.979e-005  2.312e-005  7.649e-006  8.665e-007  1.490e-006  5.167e-007  5.808e-003
4.663e-003  5.760e-003  5.620e-003
    0.300  3.253e-003  2.605e-005  1.293e-005  8.541e-006  7.482e-006  2.553e-006  3.297e-007  5.121e-007  1.221e-007  3.443e-003
2.715e-003  3.423e-003  3.410e-003
    0.400  2.214e-003  1.269e-005  6.282e-006  4.511e-006  3.261e-006  1.226e-006  1.692e-007  2.486e-007  4.686e-008  2.328e-003
1.801e-003  2.338e-003  2.379e-003
    0.500  1.619e-003  7.002e-006  3.499e-006  2.684e-006  1.720e-006  7.103e-007  9.777e-008  1.410e-007  2.230e-008  1.692e-003
1.270e-003  1.718e-003  1.792e-003
    0.600  1.237e-003  4.199e-006  2.137e-006  1.726e-006  1.029e-006  4.529e-007  6.050e-008  8.761e-008  1.197e-008  1.281e-003
9.276e-004  1.318e-003  1.416e-003
    0.700  9.713e-004  2.684e-006  1.393e-006  1.176e-006  6.678e-007  3.051e-007  3.926e-008  5.758e-008  6.923e-009  9.948e-004
6.932e-004  1.041e-003  1.153e-003
    0.800  7.776e-004  1.802e-006  9.553e-007  8.363e-007  4.581e-007  2.133e-007  2.641e-008  3.930e-008  4.223e-009  7.840e-004
5.268e-004  8.392e-004  9.590e-004
    1.000  5.177e-004  9.074e-007  5.007e-007  4.648e-007  2.384e-007  1.120e-007  1.288e-008  1.987e-008  1.757e-009  4.998e-004
3.157e-004  5.671e-004  6.875e-004
    1.200  3.564e-004  5.105e-007  2.903e-007  2.818e-007  1.351e-007  6.255e-008  6.745e-009  1.085e-008  8.073e-010  3.251e-004
1.965e-004  3.969e-004  5.065e-004
    1.500  2.121e-004  2.494e-007  1.453e-007  1.491e-007  6.358e-008  2.816e-008  2.783e-009  4.809e-009  2.743e-010  1.753e-004
1.015e-004  2.428e-004  3.286e-004
    2.000  9.615e-005  9.738e-008  5.645e-008  6.244e-008  2.104e-008  8.437e-009  7.167e-010  1.435e-009  4.576e-011  6.605e-005
3.707e-005  1.157e-004  1.657e-004
    3.000  2.358e-005  2.428e-008  1.281e-008  1.626e-008  3.058e-009  8.897e-010  4.536e-011  1.623e-010  3.560e-307  1.042e-005
5.932e-006  3.153e-005  4.640e-005
    4.000  6.566e-006  8.587e-009  3.868e-009  5.541e-009  4.973e-010  7.622e-011  3.560e-307  1.630e-011  3.560e-307  1.409e-006
6.820e-007  9.871e-006  1.430e-005
    5.000  1.910e-006  3.600e-009  1.369e-009  2.201e-009  8.034e-011  2.687e-012  3.560e-307  6.308e-013  3.560e-307  1.712e-010
1.073e-009  3.171e-006  4.466e-006
    7.000  1.572e-008  8.526e-010  2.311e-010  4.645e-010  5.593e-013  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  3.340e-009  5.912e-008
   10.000  1.614e-011  1.502e-010  2.246e-011  7.011e-011  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306

SPECTRAL PERIOD: 1
  Column 1: Acceleration (g)
  Column 2: Mean
  Column 3: Frankel (1996) USGS 2008 Truncated Mw
  Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
  Column 5: Silva et al (2002) USGS 2008 Mw
  Column 6: Campbell (2003) USGS 2008 Mw
  Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
  Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
  Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
  Column 10: Atkinson (2008p) USGS 2014 Table Soil
  Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 12: Boore-et al (2014) NGA West 2 USGS 2014
  Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

        1           2           3           4           5           6           7           8           9          10          11
12          13          14
 1.0e-004  1.817e-001  9.430e-003  9.430e-003  9.400e-003  9.430e-003  9.429e-003  9.403e-003  9.410e-003  9.237e-003  1.723e-001
1.723e-001  1.723e-001  1.723e-001
 5.0e-004  1.791e-001  9.374e-003  9.385e-003  8.270e-003  9.399e-003  9.051e-003  7.455e-003  7.844e-003  5.967e-003  1.698e-001
1.707e-001  1.716e-001  1.711e-001
 1.0e-003  1.708e-001  9.057e-003  9.099e-003  6.652e-003  9.143e-003  7.944e-003  5.060e-003  5.562e-003  3.839e-003  1.601e-001
1.629e-001  1.675e-001  1.656e-001
 5.0e-003  1.061e-001  5.304e-003  5.170e-003  2.224e-003  4.973e-003  2.810e-003  1.058e-003  1.134e-003  9.488e-004  9.235e-002
9.718e-002  1.145e-001  1.096e-001
 7.0e-003  8.867e-002  4.198e-003  3.967e-003  1.611e-003  3.720e-003  1.974e-003  6.938e-004  7.343e-004  6.480e-004  7.644e-002
8.085e-002  9.705e-002  9.255e-002
    0.010  7.145e-002  3.131e-003  2.823e-003  1.113e-003  2.571e-003  1.301e-003  4.229e-004  4.467e-004  4.073e-004  6.141e-002
6.524e-002  7.871e-002  7.510e-002
    0.020  4.374e-002  1.569e-003  1.248e-003  4.990e-004  1.075e-003  5.124e-004  1.336e-004  1.472e-004  1.316e-004  3.844e-002
4.055e-002  4.763e-002  4.608e-002
    0.050  1.928e-002  4.913e-004  3.222e-004  1.432e-004  2.544e-004  1.083e-004  1.705e-005  2.245e-005  1.621e-005  1.841e-002
1.775e-002  2.028e-002  2.015e-002
    0.070  1.349e-002  2.950e-004  1.815e-004  8.477e-005  1.348e-004  5.347e-005  6.767e-006  9.800e-006  6.103e-006  1.334e-002
1.220e-002  1.405e-002  1.407e-002
    0.100  8.977e-003  1.617e-004  9.370e-005  4.648e-005  6.299e-005  2.298e-005  2.386e-006  3.790e-006  1.892e-006  9.151e-003
7.945e-003  9.298e-003  9.364e-003
    0.200  3.869e-003  4.080e-005  2.179e-005  1.250e-005  1.073e-005  3.549e-006  3.533e-007  5.604e-007  1.433e-007  4.015e-003
3.337e-003  4.014e-003  4.079e-003
    0.300  2.314e-003  1.579e-005  8.282e-006  5.268e-006  3.292e-006  1.162e-006  1.336e-007  1.959e-007  3.485e-008  2.373e-003
1.962e-003  2.419e-003  2.490e-003
    0.400  1.579e-003  7.511e-006  3.959e-006  2.731e-006  1.396e-006  5.391e-007  6.465e-008  9.346e-008  1.325e-008  1.600e-003
1.295e-003  1.663e-003  1.753e-003
    0.500  1.154e-003  4.054e-006  2.173e-006  1.598e-006  7.220e-007  2.942e-007  3.493e-008  5.168e-008  6.059e-009  1.152e-003
9.046e-004  1.224e-003  1.333e-003
    0.600  8.785e-004  2.388e-006  1.310e-006  1.014e-006  4.232e-007  1.748e-007  2.023e-008  3.088e-008  3.075e-009  8.604e-004
6.528e-004  9.387e-004  1.060e-003
    0.700  6.862e-004  1.504e-006  8.439e-007  6.830e-007  2.681e-007  1.095e-007  1.230e-008  1.942e-008  1.674e-009  6.559e-004
4.818e-004  7.390e-004  8.667e-004
    0.800  5.456e-004  9.969e-007  5.728e-007  4.806e-007  1.786e-007  7.114e-008  7.756e-009  1.269e-008  9.571e-010  5.066e-004
3.617e-004  5.926e-004  7.207e-004
    1.000  3.579e-004  4.934e-007  2.961e-007  2.620e-007  8.773e-008  3.218e-008  3.325e-009  5.871e-009  3.388e-010  3.100e-004
2.121e-004  3.955e-004  5.136e-004
    1.200  2.430e-004  2.750e-007  1.700e-007  1.567e-007  4.703e-008  1.551e-008  1.521e-009  2.928e-009  1.246e-010  1.946e-004
1.292e-004  2.734e-004  3.744e-004
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1.500	1.421e-004	1.341e-007	8.424e-008	8.128e-008	2.035e-008	5.562e-009	5.035e-010	1.125e-009	2.576e-011	1.003e-004	6.477e-005	1.645e-004	2.386e-004
2.000	6.312e-005	5.269e-008	3.256e-008	3.332e-008	5.880e-009	1.069e-009	7.874e-011	2.614e-010	3.560e-307	3.545e-005	2.271e-005	7.660e-005	1.177e-004
3.000	1.513e-005	1.384e-008	7.543e-009	8.424e-009	6.356e-010	2.391e-011	3.560e-307	1.323e-011	3.560e-307	4.924e-006	3.193e-006	2.014e-005	3.226e-005
4.000	4.100e-006	5.109e-009	2.373e-009	2.867e-009	7.803e-011	3.560e-307	3.560e-307	7.705e-014	3.560e-307	3.116e-007	1.537e-007	6.083e-006	9.848e-006
5.000	1.165e-006	2.209e-009	8.813e-010	1.164e-009	7.612e-012	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	3.642e-010	1.708e-006	2.952e-006
7.000	2.518e-009	5.629e-010	1.694e-010	2.574e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	8.611e-013	9.787e-009
10.000	1.115e-011	1.026e-010	1.883e-011	4.239e-011	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

SPECTRAL PERIOD: 1.5
- **Column 1: Acceleration (g)**
- **Column 2: Mean**
- **Column 3: Frankel (1996) USGS 2008 Truncated Mw**
- **Column 4: Toro (1999) Midcontinent - USGS 2008 Mw**
- **Column 5: Silva et al (2002) USGS 2008 Mw**
- **Column 6: Campbell (2003) USGS 2008 Mw**
- **Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw**
- **Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil**
- **Column 9: Pezeshk et al (2011) USGS 2014 Table Soil**
- **Column 10: Atkinson (2008p) USGS 2014 Table Soil**
- **Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014**
- **Column 12: Boore-et al (2014) NGA West 2 USGS 2014**
- **Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014**
- **Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014**

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.814e-001	9.424e-003	9.427e-003	9.145e-003	9.430e-003	9.422e-003	8.921e-003	8.980e-003	8.269e-003	1.723e-001	1.723e-001	1.723e-001	1.723e-001
5.0e-004	1.717e-001	8.737e-003	8.876e-003	6.560e-003	9.129e-003	8.585e-003	4.364e-003	4.606e-003	3.773e-003	1.639e-001	1.620e-001	1.681e-001	1.669e-001
1.0e-003	1.527e-001	7.313e-003	7.545e-003	4.654e-003	8.050e-003	6.927e-003	2.417e-003	2.513e-003	2.277e-003	1.444e-001	1.399e-001	1.550e-001	1.520e-001
5.0e-003	7.585e-002	2.614e-003	2.522e-003	1.324e-003	2.700e-003	1.963e-003	4.038e-004	3.900e-004	4.921e-004	6.947e-002	6.561e-002	8.344e-002	7.937e-002
7.0e-003	6.161e-002	1.931e-003	1.782e-003	9.528e-004	1.869e-003	1.341e-003	2.503e-004	2.414e-004	3.141e-004	5.644e-002	5.362e-002	6.786e-002	6.471e-002
0.010	4.854e-002	1.366e-003	1.192e-003	6.575e-004	1.217e-003	8.620e-004	1.416e-004	1.377e-004	1.811e-004	4.478e-002	4.265e-002	5.319e-002	5.107e-002
0.020	2.867e-002	6.421e-004	4.961e-004	2.975e-004	4.743e-004	3.238e-004	3.687e-005	3.807e-005	4.762e-005	2.744e-002	2.527e-002	3.088e-002	3.010e-002
0.050	1.192e-002	1.872e-004	1.239e-004	8.676e-005	9.955e-005	6.084e-005	3.504e-006	4.326e-006	4.124e-006	1.239e-002	9.986e-003	1.274e-002	1.236e-002
0.070	8.207e-003	1.084e-004	6.830e-005	5.169e-005	4.885e-005	2.815e-005	1.300e-006	1.725e-006	1.338e-006	8.737e-003	6.744e-003	8.794e-003	8.437e-003
0.100	5.417e-003	5.670e-005	3.420e-005	2.855e-005	2.071e-005	1.120e-005	4.569e-007	6.316e-007	3.564e-007	5.842e-003	4.410e-003	5.835e-003	5.524e-003
0.200	2.330e-003	1.272e-005	7.336e-006	7.780e-006	2.916e-006	1.501e-006	7.400e-008	9.632e-008	2.967e-008	2.478e-003	1.888e-003	2.558e-003	2.384e-003
0.300	1.385e-003	4.512e-006	2.634e-006	3.293e-006	8.365e-007	4.662e-007	2.457e-008	3.217e-008	7.727e-009	1.443e-003	1.076e-003	1.546e-003	1.469e-003
0.400	9.334e-004	2.002e-006	1.207e-006	1.706e-006	3.456e-007	2.080e-007	1.003e-008	1.378e-008	2.777e-009	9.533e-004	6.761e-004	1.060e-003	1.043e-003
0.500	6.700e-004	1.023e-006	6.407e-007	9.946e-007	1.728e-007	1.085e-007	4.590e-009	6.645e-009	1.163e-009	6.680e-004	4.461e-004	7.745e-004	7.904e-004
0.600	4.986e-004	5.761e-007	3.763e-007	6.281e-007	9.612e-008	6.186e-008	2.258e-009	3.457e-009	5.292e-010	4.831e-004	3.039e-004	5.871e-004	6.195e-004
0.700	3.799e-004	3.491e-007	2.377e-007	4.205e-007	5.737e-008	3.728e-008	1.166e-009	1.898e-009	2.512e-010	3.564e-004	2.120e-004	4.558e-004	4.949e-004
0.800	2.944e-004	2.248e-007	1.583e-007	2.942e-007	3.594e-008	2.326e-008	6.208e-010	1.084e-009	1.217e-010	2.669e-004	1.506e-004	3.600e-004	4.001e-004
1.000	1.838e-004	1.073e-007	7.870e-008	1.584e-007	1.542e-008	9.701e-009	1.833e-010	3.819e-010	2.726e-011	1.548e-004	7.936e-005	2.331e-004	2.677e-004
1.200	1.191e-004	5.850e-008	4.361e-008	9.356e-008	7.144e-009	4.302e-009	5.258e-011	1.426e-010	3.277e-012	9.286e-005	4.372e-005	1.565e-004	1.831e-004
1.500	6.530e-005	2.750e-008	2.063e-008	4.772e-008	2.462e-009	1.355e-009	5.264e-012	3.256e-011	3.560e-307	4.513e-005	1.892e-005	9.034e-005	1.068e-004
2.000	2.644e-005	1.055e-008	7.434e-009	1.911e-008	4.780e-010	2.081e-010	3.560e-307	2.170e-012	3.560e-307	1.473e-005	5.049e-006	3.952e-005	4.645e-005
3.000	5.357e-006	2.621e-009	1.518e-009	4.764e-009	2.105e-011	3.287e-012	3.560e-307	3.560e-307	3.560e-307	1.547e-006	1.396e-007	9.293e-006	1.044e-005
4.000	1.165e-006	8.843e-010	4.283e-010	1.649e-009	2.018e-013	3.560e-307	3.560e-307	3.560e-307	3.560e-307	1.307e-009	4.144e-010	2.286e-006	2.373e-006
5.000	1.450e-007	3.552e-010	1.465e-010	6.859e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	4.705e-012	3.295e-007	2.502e-007
7.000	1.707e-011	7.371e-011	2.032e-011	1.668e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	6.290e-015	2.537e-306
10.000	2.339e-012	8.143e-012	5.609e-013	2.962e-011	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

SPECTRAL PERIOD: 2
- **Column 1: Acceleration (g)**
- **Column 2: Mean**
- **Column 3: Frankel (1996) USGS 2008 Truncated Mw**

Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
Column 5: Silva et al (2002) USGS 2008 Mw
Column 6: Campbell (2003) USGS 2008 Mw
Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
Column 10: Atkinson (2008p) USGS 2014 Table Soil
Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 12: Boore-et al (2014) NGA West 2 USGS 2014
Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.804e-001	9.358e-003	9.387e-003	8.627e-003	9.424e-003	9.352e-003	7.576e-003	7.649e-003	6.925e-003	1.720e-001	1.717e-001	1.721e-001	1.721e-001
5.0e-004	1.578e-001	7.319e-003	7.679e-003	5.224e-003	8.480e-003	7.106e-003	2.593e-003	2.600e-003	2.680e-003	1.516e-001	1.455e-001	1.573e-001	1.566e-001
1.0e-003	1.288e-001	5.244e-003	5.597e-003	3.477e-003	6.592e-003	4.819e-003	1.356e-003	1.309e-003	1.594e-003	1.228e-001	1.144e-001	1.328e-001	1.314e-001
5.0e-003	5.561e-002	1.520e-003	1.449e-003	9.398e-004	1.653e-003	9.946e-004	1.991e-004	1.795e-004	2.986e-004	5.199e-002	4.887e-002	5.960e-002	5.886e-002
7.0e-003	4.474e-002	1.112e-003	1.010e-003	6.777e-004	1.113e-003	6.497e-004	1.174e-004	1.058e-004	1.801e-004	4.194e-002	3.971e-002	4.772e-002	4.749e-002
0.010	3.495e-002	7.820e-004	6.711e-004	4.694e-004	7.091e-004	3.975e-004	6.234e-005	5.667e-005	9.694e-005	3.305e-002	3.116e-002	3.707e-002	3.717e-002
0.020	2.009e-002	3.613e-004	2.770e-004	2.142e-004	2.628e-004	1.299e-004	1.402e-005	1.349e-005	2.168e-005	1.971e-002	1.755e-002	2.126e-002	2.134e-002
0.050	8.018e-003	9.939e-005	6.651e-005	6.326e-005	4.798e-005	1.805e-005	1.124e-006	1.270e-006	1.442e-006	8.309e-003	6.662e-003	8.674e-003	8.317e-003
0.070	5.493e-003	5.562e-005	3.579e-005	3.789e-005	2.189e-005	7.383e-006	4.096e-007	4.876e-007	4.255e-007	5.720e-003	4.551e-003	6.033e-003	5.613e-003
0.100	3.635e-003	2.785e-005	1.738e-005	2.105e-005	8.551e-006	2.650e-006	1.488e-007	1.798e-007	1.127e-007	3.750e-003	3.036e-003	4.069e-003	3.660e-003
0.200	1.593e-003	5.616e-006	3.470e-006	5.803e-006	1.066e-006	3.479e-007	2.223e-008	2.627e-008	1.081e-008	1.570e-003	1.329e-003	1.852e-003	1.616e-003
0.300	9.599e-004	1.849e-006	1.189e-006	2.469e-006	2.965e-007	1.057e-007	6.163e-009	7.723e-009	2.666e-009	9.143e-004	7.544e-004	1.142e-003	1.027e-003
0.400	6.484e-004	7.763e-007	5.260e-007	1.281e-006	1.173e-007	4.245e-008	2.117e-009	2.830e-009	8.689e-010	5.985e-004	4.676e-004	7.883e-004	7.384e-004
0.500	4.625e-004	3.785e-007	2.726e-007	7.468e-007	5.518e-008	1.953e-008	8.180e-010	1.178e-009	3.196e-010	4.130e-004	3.039e-004	5.748e-004	5.578e-004
0.600	3.405e-004	2.060e-007	1.569e-007	4.707e-007	2.885e-008	9.630e-009	3.359e-010	5.299e-010	1.249e-010	2.939e-004	2.036e-004	4.326e-004	4.317e-004
0.700	2.563e-004	1.226e-007	9.709e-008	3.144e-007	1.608e-008	4.979e-009	1.418e-010	2.502e-010	4.873e-011	2.138e-004	1.397e-004	3.327e-004	3.389e-004
0.800	1.961e-004	7.819e-008	6.340e-008	2.193e-007	9.317e-009	2.668e-009	5.907e-011	1.216e-010	1.729e-011	1.580e-004	9.770e-005	2.599e-004	2.686e-004
1.000	1.190e-004	3.625e-008	3.050e-008	1.173e-007	3.401e-009	8.188e-010	8.242e-012	2.912e-011	1.322e-012	8.953e-005	4.991e-005	1.642e-004	1.725e-004
1.200	7.506e-005	1.921e-008	1.649e-008	6.875e-008	1.335e-009	2.635e-010	4.413e-013	6.858e-012	3.560e-307	5.268e-005	2.668e-005	1.073e-004	1.135e-004
1.500	3.966e-005	9.057e-009	7.541e-009	3.461e-008	3.582e-010	4.932e-011	3.560e-307	3.476e-013	3.560e-307	2.511e-005	1.102e-005	5.955e-005	6.296e-005
2.000	1.519e-005	3.478e-009	2.580e-009	1.358e-008	4.578e-011	1.990e-012	3.560e-307	3.560e-307	3.560e-307	8.017e-006	2.636e-006	2.449e-005	2.561e-005
3.000	2.651e-006	7.948e-010	4.801e-010	3.353e-009	9.160e-014	3.560e-307	3.560e-307	3.560e-307	3.560e-307	6.163e-007	3.473e-008	5.020e-006	4.930e-006
4.000	4.059e-007	2.479e-010	1.246e-010	1.177e-009	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	4.566e-011	8.285e-011	8.906e-007	7.326e-007
5.000	1.266e-008	9.018e-011	3.621e-011	4.997e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	4.437e-008	6.101e-009
7.000	8.946e-012	1.387e-011	2.667e-012	1.295e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
10.000	1.456e-012	1.940e-013	3.560e-307	2.407e-011	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

SPECTRAL PERIOD: 3
Column 1: Acceleration (g)
Column 2: Mean
Column 3: Frankel (1996) USGS 2008 Truncated Mw
Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
Column 5: Silva et al (2002) USGS 2008 Mw
Column 6: Campbell (2003) USGS 2008 Mw
Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
Column 10: Atkinson (2008p) USGS 2014 Table Soil
Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 12: Boore-et al (2014) NGA West 2 USGS 2014
Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.750e-001	8.550e-003	9.285e-003	6.886e-003	9.333e-003	8.677e-003	4.057e-003	4.542e-003	4.951e-003	1.679e-001	1.665e-001	1.695e-001	1.696e-001
5.0e-004	1.239e-001	4.233e-003	6.526e-003	3.135e-003	6.546e-003	4.267e-003	9.798e-004	1.070e-003	1.826e-003	1.170e-001	1.122e-001	1.271e-001	1.261e-001

 1.0e-003 9.035e-002 2.540e-003 4.279e-003 1.923e-003 4.113e-003 2.385e-003 4.752e-004 5.041e-004 1.089e-003 8.435e-002
8.093e-002 9.527e-002 9.301e-002
 5.0e-003 3.554e-002 6.241e-004 9.349e-004 4.759e-004 7.611e-004 3.879e-004 5.031e-005 5.120e-005 1.760e-004 3.316e-002
3.327e-002 3.766e-002 3.657e-002
 7.0e-003 2.834e-002 4.459e-004 6.332e-004 3.394e-004 4.928e-004 2.397e-004 2.672e-005 2.734e-005 1.004e-004 2.671e-002
2.659e-002 2.999e-002 2.910e-002
    0.010 2.176e-002 3.040e-004 4.066e-004 2.322e-004 2.983e-004 1.353e-004 1.259e-005 1.306e-005 5.057e-005 2.082e-002
2.030e-002 2.308e-002 2.223e-002
    0.020 1.185e-002 1.297e-004 1.537e-004 1.031e-004 9.457e-005 3.507e-005 2.252e-006 2.487e-006 9.870e-006 1.176e-002
1.080e-002 1.280e-002 1.182e-002
    0.050 4.477e-003 3.071e-005 3.129e-005 2.920e-005 1.234e-005 3.261e-006 1.536e-007 1.976e-007 5.807e-007 4.493e-003
4.088e-003 5.090e-003 4.199e-003
    0.070 3.049e-003 1.609e-005 1.566e-005 1.722e-005 4.898e-006 1.200e-006 5.537e-008 7.587e-008 1.781e-007 3.005e-003
2.825e-003 3.545e-003 2.804e-003
    0.100 2.021e-003 7.462e-006 7.007e-006 9.418e-006 1.687e-006 4.145e-007 1.896e-008 2.752e-008 5.099e-008 1.937e-003
1.894e-003 2.396e-003 1.849e-003
    0.200 9.054e-004 1.280e-006 1.189e-006 2.520e-006 1.883e-007 5.032e-008 1.963e-009 3.339e-009 4.926e-009 8.202e-004
8.105e-004 1.101e-003 8.887e-004
    0.300 5.382e-004 3.789e-007 3.727e-007 1.054e-006 4.834e-008 1.168e-008 3.572e-010 7.273e-010 1.136e-009 4.678e-004
4.394e-004 6.737e-004 5.713e-004
    0.400 3.492e-004 1.483e-007 1.569e-007 5.390e-007 1.694e-008 3.274e-009 7.861e-011 2.005e-010 3.409e-010 2.912e-004
2.594e-004 4.530e-004 3.929e-004
    0.500 2.366e-004 6.995e-008 7.795e-008 3.105e-007 6.801e-009 9.989e-010 1.759e-011 6.160e-011 1.161e-010 1.891e-004
1.608e-004 3.188e-004 2.775e-004
    0.600 1.649e-004 3.683e-008 4.321e-008 1.942e-007 2.947e-009 3.114e-010 3.507e-012 2.001e-011 4.127e-011 1.264e-004
1.032e-004 2.306e-004 1.994e-004
    0.700 1.175e-004 2.110e-008 2.590e-008 1.288e-007 1.344e-009 9.376e-011 3.234e-013 6.373e-012 1.496e-011 8.629e-005
6.802e-005 1.702e-004 1.453e-004
    0.800 8.518e-005 1.305e-008 1.649e-008 8.908e-008 6.329e-010 2.639e-011 3.560e-307 1.710e-012 5.714e-012 6.003e-005
4.583e-005 1.276e-004 1.072e-004
    1.000 4.680e-005 6.065e-009 7.541e-009 4.677e-008 1.488e-010 1.072e-012 3.560e-307 3.560e-307 6.608e-013 3.041e-005
2.186e-005 7.451e-005 6.042e-005
    1.200 2.695e-005 3.370e-009 3.858e-009 2.685e-008 3.861e-011 3.560e-307 3.560e-307 3.560e-307 3.560e-307 1.614e-005
1.096e-005 4.529e-005 3.540e-005
    1.500 1.253e-005 1.599e-009 1.617e-009 1.311e-008 4.353e-012 3.560e-307 3.560e-307 3.560e-307 3.560e-307 6.548e-006
4.088e-006 2.276e-005 1.673e-005
    2.000 3.795e-006 5.707e-010 4.801e-010 4.953e-009 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 1.378e-006
7.002e-007 7.970e-006 5.130e-006
    3.000 3.082e-007 1.123e-010 6.654e-011 1.186e-009 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 8.041e-010
1.926e-009 9.450e-007 2.847e-007
    4.000 7.736e-009 2.704e-011 1.061e-011 4.095e-010 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 2.537e-306
2.537e-306 3.083e-008 2.537e-306
    5.000 1.098e-011 6.264e-012 1.173e-012 1.742e-010 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 2.537e-306
2.537e-306 1.595e-015 2.537e-306
    7.000 2.620e-012 3.560e-307 3.560e-307 4.367e-011 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 2.537e-306
2.537e-306 2.537e-306 2.537e-306
   10.000 4.520e-013 3.560e-307 3.560e-307 7.534e-012 3.560e-307 3.560e-307 3.560e-307 3.560e-307 3.560e-307 2.537e-306
2.537e-306 2.537e-306 2.537e-306

SPECTRAL PERIOD: 4
  Column 1: Acceleration (g)
  Column 2: Mean
  Column 3: Frankel (1996) USGS 2008 Truncated Mw
  Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
  Column 5: Silva et al (2002) USGS 2008 Mw
  Column 6: Campbell (2003) USGS 2008 Mw
  Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
  Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
  Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
  Column 10: Atkinson (2008p) USGS 2014 Table Soil
  Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 12: Boore-et al (2014) NGA West 2 USGS 2014
  Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

       1   2   3   4   5   6   7   8   9   10   11
12   13   14
 1.0e-004 1.644e-001 6.870e-003 9.124e-003 5.355e-003 8.934e-003 9.240e-003 2.441e-003 2.624e-003 3.584e-003 1.572e-001
1.558e-001 1.629e-001 1.592e-001
 5.0e-004 9.632e-002 2.490e-003 5.597e-003 2.108e-003 4.555e-003 6.316e-003 5.276e-004 5.469e-004 1.228e-003 8.982e-002
8.861e-002 1.034e-001 9.252e-002
 1.0e-003 6.699e-002 1.429e-003 3.420e-003 1.254e-003 2.502e-003 4.138e-003 2.396e-004 2.413e-004 6.822e-004 6.229e-002
6.234e-002 7.307e-002 6.377e-002
 5.0e-003 2.548e-002 3.387e-004 6.711e-004 2.999e-004 3.937e-004 9.597e-004 1.945e-005 1.811e-005 8.053e-005 2.462e-002
2.489e-002 2.739e-002 2.377e-002
 7.0e-003 1.993e-002 2.388e-004 4.442e-004 2.124e-004 2.438e-004 6.604e-004 9.653e-006 8.893e-006 4.249e-005 1.964e-002
1.943e-002 2.145e-002 1.835e-002
    0.010 1.487e-002 1.597e-004 2.770e-004 1.442e-004 1.386e-004 4.299e-004 4.242e-006 3.889e-006 1.969e-005 1.501e-002
1.443e-002 1.609e-002 1.342e-002
    0.020 7.645e-003 6.447e-005 9.729e-005 6.288e-005 3.694e-005 1.631e-004 6.718e-007 6.356e-007 3.274e-006 8.003e-003
7.394e-003 8.474e-003 6.522e-003
    0.050 2.750e-003 1.374e-005 1.738e-005 1.739e-005 3.594e-006 2.964e-005 4.070e-008 4.747e-008 1.724e-007 2.797e-003
2.738e-003 3.227e-003 2.205e-003
    0.070 1.858e-003 6.861e-006 8.233e-006 1.017e-005 1.309e-006 1.345e-005 1.392e-008 1.817e-008 5.471e-008 1.832e-003
1.863e-003 2.208e-003 1.511e-003
    0.100 1.229e-003 3.015e-006 3.470e-006 5.516e-006 4.277e-007 5.235e-006 4.525e-009 6.446e-009 1.676e-008 1.177e-003
1.220e-003 1.464e-003 1.049e-003
    0.200 5.208e-004 4.557e-007 5.260e-007 1.455e-006 4.433e-008 6.619e-007 3.141e-010 5.538e-010 1.676e-009 4.824e-004
4.700e-004 6.207e-004 5.091e-004

0.300	2.754e-004	1.257e-007	1.569e-007	6.029e-007	9.849e-009	1.914e-007	3.690e-011	8.482e-011	3.551e-010	2.496e-004	2.276e-004	3.343e-004	2.895e-004
0.400	1.571e-004	4.720e-008	6.340e-008	3.061e-007	2.760e-009	7.778e-008	4.292e-012	1.594e-011	9.772e-011	1.389e-004	1.211e-004	1.955e-004	1.725e-004
0.500	9.390e-005	2.085e-008	3.050e-008	1.757e-007	8.661e-010	3.771e-008	1.618e-013	2.677e-012	3.032e-011	8.086e-005	6.844e-005	1.199e-004	1.063e-004
0.600	5.820e-005	1.063e-008	1.649e-008	1.096e-007	2.865e-010	2.029e-008	3.560e-307	2.399e-013	1.013e-011	4.874e-005	4.038e-005	7.614e-005	6.747e-005
0.700	3.712e-005	6.142e-009	9.646e-009	7.231e-008	9.586e-011	1.161e-008	3.560e-307	3.560e-307	3.402e-012	3.025e-005	2.461e-005	4.966e-005	4.394e-005
0.800	2.424e-005	3.937e-009	5.969e-009	4.973e-008	3.327e-011	6.881e-009	3.560e-307	3.560e-307	9.620e-013	1.920e-005	1.540e-005	3.313e-005	2.922e-005
1.000	1.088e-005	1.927e-009	2.580e-009	2.573e-008	3.765e-012	2.610e-009	3.560e-307	3.560e-307	3.560e-307	8.082e-006	6.375e-006	1.555e-005	1.352e-005
1.200	5.074e-006	1.044e-009	1.243e-009	1.453e-008	4.369e-014	1.059e-009	3.560e-307	3.560e-307	3.560e-307	3.457e-006	2.711e-006	7.645e-006	6.479e-006
1.500	1.594e-006	4.715e-010	4.801e-010	6.926e-009	3.560e-307	2.925e-010	3.560e-307	3.560e-307	3.560e-307	8.588e-007	6.911e-007	2.691e-006	2.135e-006
2.000	1.475e-007	1.570e-010	1.246e-010	2.548e-009	3.560e-307	3.626e-011	3.560e-307	3.560e-307	3.560e-307	1.031e-008	3.859e-008	3.620e-007	1.783e-007
3.000	4.280e-011	2.273e-011	1.061e-011	5.972e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	1.692e-011	2.537e-306
4.000	1.252e-011	3.069e-012	4.433e-013	2.047e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
5.000	5.209e-012	3.560e-307	3.560e-307	8.682e-011	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
7.000	1.292e-012	3.560e-307	3.560e-307	2.153e-011	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
10.000	1.993e-013	3.560e-307	3.560e-307	3.322e-012	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

SPECTRAL PERIOD: 5

- Column 1: Acceleration (g)
- Column 2: Mean
- Column 3: Frankel (1996) USGS 2008 Truncated Mw
- Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
- Column 5: Silva et al (2002) USGS 2008 Mw
- Column 6: Campbell (2003) USGS 2008 Mw
- Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
- Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
- Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
- Column 10: Atkinson (2008p) USGS 2014 Table Soil
- Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
- Column 12: Boore-et al (2014) NGA West 2 USGS 2014
- Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
- Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	1.470e-001	6.210e-003	8.920e-003	4.239e-003	8.625e-003	9.101e-003	1.594e-003	1.654e-003	2.735e-003	1.405e-001	1.413e-001	1.482e-001	1.383e-001
5.0e-004	7.442e-002	2.090e-003	4.863e-003	1.542e-003	3.820e-003	5.610e-003	3.193e-004	3.188e-004	8.748e-004	7.063e-002	7.151e-002	8.009e-002	6.636e-002
1.0e-003	5.102e-002	1.187e-003	2.827e-003	9.039e-004	2.005e-003	3.498e-003	1.370e-004	1.314e-004	4.506e-004	4.882e-002	5.009e-002	5.499e-002	4.498e-002
5.0e-003	1.864e-002	2.694e-004	5.121e-004	2.121e-004	2.880e-004	7.513e-004	9.119e-006	7.600e-006	4.185e-005	1.938e-002	1.892e-002	1.978e-002	1.555e-002
7.0e-003	1.420e-002	1.864e-004	3.321e-004	1.495e-004	1.726e-004	5.072e-004	4.339e-006	3.511e-006	2.093e-005	1.521e-002	1.438e-002	1.512e-002	1.148e-002
0.010	1.031e-002	1.216e-004	2.018e-004	1.008e-004	9.388e-005	3.217e-004	1.828e-006	1.444e-006	9.153e-006	1.137e-002	1.041e-002	1.107e-002	8.001e-003
0.020	5.073e-003	4.610e-005	6.651e-005	4.344e-005	2.233e-005	1.135e-004	2.667e-007	2.183e-007	1.377e-006	5.759e-003	5.148e-003	5.644e-003	3.614e-003
0.050	1.777e-003	8.743e-006	1.067e-005	1.183e-005	1.853e-006	1.774e-005	1.397e-008	1.584e-008	7.231e-008	1.915e-003	1.824e-003	2.076e-003	1.274e-003
0.070	1.202e-003	4.147e-006	4.838e-006	6.884e-006	6.514e-007	7.543e-006	4.673e-009	6.028e-009	2.434e-008	1.264e-003	1.214e-003	1.404e-003	9.170e-004
0.100	7.866e-004	1.717e-006	1.947e-006	3.715e-006	2.113e-007	2.763e-006	1.373e-009	1.905e-009	7.915e-009	8.193e-004	7.645e-004	9.138e-004	6.449e-004
0.200	2.908e-004	2.270e-007	2.726e-007	9.720e-007	1.993e-008	3.335e-007	6.411e-011	1.129e-010	7.784e-010	3.122e-004	2.496e-004	3.404e-004	2.606e-004
0.300	1.310e-004	5.923e-008	7.795e-008	4.003e-007	3.744e-009	9.552e-008	4.061e-012	1.130e-011	1.550e-010	1.443e-004	1.031e-004	1.578e-004	1.184e-004
0.400	6.466e-005	2.085e-008	3.050e-008	2.027e-007	8.661e-010	3.771e-008	3.560e-307	8.106e-013	3.967e-011	7.223e-005	4.775e-005	8.049e-005	5.810e-005
0.500	3.400e-005	9.160e-009	1.433e-008	1.164e-007	2.179e-010	1.758e-008	3.560e-307	3.560e-307	1.152e-011	3.828e-005	2.379e-005	4.366e-005	3.023e-005
0.600	1.873e-005	4.856e-009	7.541e-009	7.236e-008	5.583e-011	8.898e-009	3.560e-307	3.560e-307	3.273e-012	2.120e-005	1.249e-005	2.481e-005	1.641e-005
0.700	1.067e-005	2.966e-009	4.287e-009	4.755e-008	1.567e-011	4.735e-009	3.560e-307	3.560e-307	7.526e-013	1.211e-005	6.798e-006	1.461e-005	9.163e-006
0.800	6.206e-006	1.927e-009	2.580e-009	3.252e-008	3.765e-012	2.610e-009	3.560e-307	3.560e-307	7.095e-014	7.040e-006	3.769e-006	8.815e-006	5.187e-006
1.000	2.118e-006	9.053e-010	1.049e-009	1.660e-008	3.560e-307	8.509e-010	3.560e-307	3.560e-307	3.560e-307	2.392e-006	1.141e-006	3.311e-006	1.622e-006
1.200	6.556e-007	4.715e-010	4.801e-010	9.257e-009	3.560e-307	2.925e-010	3.560e-307	3.560e-307	3.560e-307	7.178e-007	3.039e-007	1.199e-006	3.985e-007
1.500	6.757e-008	2.035e-010	1.724e-010	4.306e-009	3.560e-307	6.078e-011	3.560e-307	3.560e-307	3.560e-307	4.072e-008	2.918e-008	1.897e-007	9.510e-009

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    2.000  4.695e-010  5.857e-011  3.621e-011  1.553e-009  3.560e-307  3.362e-012  3.560e-307  3.560e-307  3.560e-307  2.537e-306
9.455e-011  1.376e-009  2.537e-306
    3.000  2.205e-011  5.069e-012  1.173e-012  3.598e-010  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    4.000  7.335e-012  3.560e-307  3.560e-307  1.223e-010  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    5.000  3.161e-012  3.560e-307  3.560e-307  5.268e-011  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    7.000  7.602e-013  3.560e-307  3.560e-307  1.267e-011  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
   10.000  1.022e-013  3.560e-307  3.560e-307  1.703e-012  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306

SPECTRAL PERIOD: 7.5
  Column 1: Acceleration (g)
  Column 2: Mean
  Column 3: Frankel (1996) USGS 2008 Truncated Mw
  Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
  Column 5: Silva et al (2002) USGS 2008 Mw
  Column 6: Campbell (2003) USGS 2008 Mw
  Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
  Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
  Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
  Column 10: Atkinson (2008p) USGS 2014 Table Soil
  Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 12: Boore-et al (2014) NGA West 2 USGS 2014
  Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

        1           2           3           4           5           6           7           8           9          10          11
12          13          14
 1.0e-004  1.002e-001  3.811e-003  7.371e-003  2.663e-003  6.548e-003  7.897e-003  7.405e-004  7.599e-004  1.604e-003  1.058e-001
9.917e-002  9.806e-002  8.319e-002
 5.0e-004  4.421e-002  1.075e-003  2.544e-003  8.213e-004  1.776e-003  3.185e-003  1.169e-004  1.112e-004  3.954e-004  4.832e-002
4.500e-002  4.365e-002  3.521e-002
 1.0e-003  3.035e-002  5.862e-004  1.280e-003  4.534e-004  8.176e-004  1.721e-003  4.101e-005  3.682e-005  1.616e-004  3.409e-002
3.120e-002  3.014e-002  2.364e-002
 5.0e-003  9.465e-003  1.046e-004  1.695e-004  8.806e-005  7.544e-005  2.739e-004  1.347e-006  1.060e-006  6.815e-006  1.278e-002
9.388e-003  9.448e-003  5.923e-003
 7.0e-003  6.842e-003  6.595e-005  9.985e-005  5.880e-005  3.821e-005  1.671e-004  5.348e-007  4.237e-007  2.761e-006  9.571e-003
6.723e-003  6.855e-003  4.029e-003
    0.010  4.701e-003  3.824e-005  5.389e-005  3.723e-005  1.684e-005  9.255e-005  1.876e-007  1.566e-007  9.621e-007  6.728e-003
4.581e-003  4.753e-003  2.639e-003
    0.020  2.098e-003  1.086e-005  1.348e-005  1.391e-005  2.542e-006  2.273e-005  1.977e-008  2.143e-008  1.023e-007  2.958e-003
1.997e-003  2.177e-003  1.233e-003
    0.050  6.556e-004  1.254e-006  1.419e-006  2.999e-006  1.446e-007  1.947e-006  8.794e-010  1.255e-009  5.452e-009  8.638e-004
5.538e-004  7.044e-004  4.976e-004
    0.070  4.000e-004  4.779e-007  5.506e-007  1.578e-006  4.682e-008  6.951e-007  2.119e-010  3.347e-010  1.807e-009  5.357e-004
3.082e-004  4.346e-004  3.205e-004
    0.100  2.153e-004  1.554e-007  1.912e-007  7.578e-007  1.274e-008  2.332e-007  3.298e-011  6.222e-011  5.012e-010  3.026e-004
1.462e-004  2.370e-004  1.749e-004
    0.200  4.180e-005  1.346e-008  2.053e-008  1.517e-007  4.322e-010  2.534e-008  3.560e-307  1.043e-013  2.114e-011  6.807e-005
2.033e-005  4.751e-005  3.124e-005
    0.300  1.108e-005  3.329e-009  4.906e-009  5.259e-008  2.155e-011  5.520e-009  3.560e-307  3.560e-307  1.132e-012  2.004e-005
4.025e-006  1.292e-005  7.308e-006
    0.400  3.360e-006  1.301e-009  1.617e-009  2.295e-008  5.299e-013  1.477e-009  3.560e-307  3.560e-307  3.560e-307  6.743e-006
8.559e-007  4.021e-006  1.811e-006
    0.500  1.025e-006  5.966e-010  6.354e-010  1.143e-008  3.560e-307  4.350e-010  3.560e-307  3.560e-307  3.560e-307  2.344e-006
1.633e-007  1.239e-006  3.488e-007
    0.600  2.828e-007  3.054e-010  2.838e-010  6.219e-009  3.560e-307  1.329e-010  3.560e-307  3.560e-307  3.560e-307  7.476e-007
2.870e-008  3.214e-007  3.170e-008
    0.700  6.043e-008  1.675e-010  1.350e-010  3.632e-009  3.560e-307  4.126e-011  3.560e-307  3.560e-307  3.560e-307  1.734e-007
4.317e-009  6.259e-008  4.326e-010
    0.800  7.095e-009  9.532e-011  6.654e-011  2.263e-009  3.560e-307  1.221e-011  3.560e-307  3.560e-307  3.560e-307  1.875e-008
1.091e-009  7.936e-009  2.537e-306
    1.000  1.016e-010  3.230e-011  1.704e-011  1.020e-009  3.560e-307  3.250e-013  3.560e-307  3.560e-307  3.560e-307  2.537e-306
1.446e-010  2.537e-306  2.537e-306
    1.200  3.351e-011  1.097e-011  3.880e-012  5.291e-010  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.395e-012  2.537e-306  2.537e-306
    1.500  1.408e-011  1.840e-012  1.367e-013  2.325e-010  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    2.000  4.708e-012  3.560e-307  3.560e-307  7.847e-011  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    3.000  8.987e-013  3.560e-307  3.560e-307  1.498e-011  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    4.000  2.024e-013  3.560e-307  3.560e-307  3.373e-012  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    5.000  4.121e-014  3.560e-307  3.560e-307  6.869e-013  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
    7.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306
   10.000  2.893e-306  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  3.560e-307  2.537e-306
2.537e-306  2.537e-306  2.537e-306

SPECTRAL PERIOD: 10
  Column 1: Acceleration (g)
  Column 2: Mean
  Column 3: Frankel (1996) USGS 2008 Truncated Mw
  Column 4: Toro (1999) Midcontinent - USGS 2008 Mw
  Column 5: Silva et al (2002) USGS 2008 Mw
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Column 6: Campbell (2003) USGS 2008 Mw
Column 7: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
Column 8: Atkinson-Boore (2006p) USGS 2014 Table Soil
Column 9: Pezeshk et al (2011) USGS 2014 Table Soil
Column 10: Atkinson (2008p) USGS 2014 Table Soil
Column 11: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 12: Boore-et al (2014) NGA West 2 USGS 2014
Column 13: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 14: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0e-004	7.088e-002	2.490e-003	5.597e-003	1.810e-003	4.555e-003	6.316e-003	4.085e-004	4.119e-004	1.050e-003	8.116e-002	6.964e-002	6.936e-002	5.276e-002
5.0e-004	3.095e-002	6.520e-004	1.449e-003	5.036e-004	9.393e-004	1.924e-003	4.976e-005	4.513e-005	1.913e-004	3.744e-002	3.049e-002	3.081e-002	2.240e-002
1.0e-003	2.057e-002	3.387e-004	6.711e-004	2.647e-004	3.937e-004	9.597e-004	1.439e-005	1.224e-005	6.350e-005	2.687e-002	1.984e-002	2.054e-002	1.381e-002
5.0e-003	5.373e-003	4.610e-005	6.651e-005	4.344e-005	2.233e-005	1.135e-004	2.667e-007	2.183e-007	1.377e-006	9.094e-003	4.667e-003	5.002e-003	2.601e-003
7.0e-003	3.739e-003	2.650e-005	3.579e-005	2.769e-005	9.660e-006	6.183e-005	9.471e-008	8.368e-008	4.829e-007	6.487e-003	3.170e-003	3.457e-003	1.773e-003
0.010	2.476e-003	1.374e-005	1.738e-005	1.660e-005	3.594e-006	2.964e-005	2.930e-008	2.997e-008	1.510e-007	4.299e-003	2.045e-003	2.302e-003	1.225e-003
0.020	1.050e-003	3.015e-006	3.470e-006	5.494e-006	4.277e-007	5.235e-006	3.013e-009	3.987e-009	1.596e-008	1.696e-003	8.103e-004	1.049e-003	6.380e-004
0.050	2.700e-004	2.270e-007	2.726e-007	9.720e-007	1.993e-008	3.335e-007	6.411e-011	1.129e-010	7.784e-010	4.201e-004	1.557e-004	3.201e-004	1.834e-004
0.070	1.400e-004	7.514e-008	9.709e-008	4.684e-007	5.119e-009	1.187e-007	7.393e-012	1.785e-011	2.082e-010	2.283e-004	6.603e-005	1.754e-004	8.985e-005
0.100	6.022e-005	2.085e-008	3.050e-008	2.027e-007	8.661e-010	3.771e-008	3.560e-307	8.106e-013	3.967e-011	1.060e-004	2.145e-005	7.892e-005	3.446e-005
0.200	6.531e-006	1.927e-009	2.580e-009	3.252e-008	3.765e-012	2.610e-009	3.560e-307	3.560e-307	7.095e-014	1.397e-005	8.939e-007	8.998e-006	2.247e-006
0.300	9.741e-007	4.715e-010	4.801e-010	9.257e-009	3.560e-307	2.925e-010	3.560e-307	3.560e-307	3.560e-307	2.516e-006	3.833e-008	1.263e-006	7.667e-008
0.400	1.213e-007	1.570e-010	1.246e-010	3.434e-009	3.560e-307	3.626e-011	3.560e-307	3.560e-307	3.560e-307	3.901e-007	2.645e-009	9.162e-008	1.153e-011
0.500	5.921e-009	5.857e-011	3.621e-011	1.553e-009	3.560e-307	3.362e-012	3.560e-307	3.560e-307	3.560e-307	2.170e-008	5.295e-010	1.044e-009	2.537e-306
0.600	7.285e-011	2.273e-011	1.061e-011	8.084e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	1.154e-011	7.488e-011	2.537e-306	2.537e-306
0.700	2.867e-011	8.617e-012	2.667e-012	4.635e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
0.800	1.727e-011	3.069e-012	4.433e-013	2.838e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
1.000	7.335e-012	3.560e-307	3.560e-307	1.223e-010	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
1.200	3.701e-012	3.560e-307	3.560e-307	6.168e-011	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
1.500	1.510e-012	3.560e-307	3.560e-307	2.516e-011	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
2.000	3.924e-013	3.560e-307	3.560e-307	6.539e-012	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
3.000	2.442e-014	3.560e-307	3.560e-307	4.070e-013	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
4.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
5.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
7.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306
10.000	2.893e-306	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	3.560e-307	2.537e-306	2.537e-306	2.537e-306	2.537e-306

Probabilistic Spectra results for EZ-FRISK 8.07 Build 044

ANNUAL FREQUENCY OF EXCEEDANCE: 4.041e-004
RETURN PERIOD: 2474.9
PROBABILITY OF EXCEEDENCE: 2.0% IN 50.0 YEARS
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Mean
  Column 3: Acceleration (g) for: Frankel (1996) USGS 2008 Truncated Mw
  Column 4: Acceleration (g) for: Toro (1999) Midcontinent - USGS 2008 Mw
  Column 5: Acceleration (g) for: Silva et al (2002) USGS 2008 Mw
  Column 6: Acceleration (g) for: Campbell (2003) USGS 2008 Mw
  Column 7: Acceleration (g) for: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
  Column 8: Acceleration (g) for: Atkinson-Boore (2006p) USGS 2014 Table Soil
  Column 9: Acceleration (g) for: Pezeshk et al (2011) USGS 2014 Table Soil
  Column 10: Acceleration (g) for: Atkinson (2008p) USGS 2014 Table Soil
  Column 11: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 12: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 13: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 14: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6	7	8	9	10	11	12	13	14
PGA	5.634e-001	9.661e-002	7.727e-002	6.586e-002	8.806e-002	4.937e-002	2.618e-002	3.369e-002	6.803e-002	6.330e-001	5.571e-001	4.635e-001	5.866e-001
0.02	5.711e-001	1.149e-001	1.006e-001	8.535e-002	1.275e-001	6.794e-002	4.649e-002	3.420e-002	9.540e-002	6.292e-001	5.575e-001	4.837e-001	5.910e-001
0.03	5.760e-001	1.272e-001	1.165e-001	9.970e-002	1.654e-001	8.182e-002	4.637e-002	3.041e-002	8.735e-002	6.010e-001	5.795e-001	5.028e-001	5.966e-001
0.05	6.315e-001	1.450e-001	1.407e-001	1.198e-001	2.081e-001	1.041e-001	3.672e-002	2.189e-002	5.914e-002	6.183e-001	6.845e-001	5.629e-001	6.369e-001
0.075	7.480e-001	1.614e-001	1.642e-001	1.391e-001	2.157e-001	1.017e-001	4.927e-002	4.411e-002	7.876e-002	7.126e-001	8.510e-001	6.636e-001	7.484e-001
0.1	8.640e-001	1.746e-001	1.839e-001	1.551e-001	2.133e-001	1.143e-001	5.960e-002	7.417e-002	9.707e-002	8.450e-001	9.558e-001	7.839e-001	8.622e-001
0.15	1.055e+000	1.958e-001	1.777e-001	1.274e-001	1.971e-001	1.020e-001	5.575e-002	7.238e-002	8.510e-002	1.169e+000	1.106e+000	8.637e-001	1.039e+000
0.2	1.204e+000	2.111e-001	1.740e-001	1.114e-001	1.800e-001	1.006e-001	5.343e-002	7.134e-002	7.801e-002	1.361e+000	1.215e+000	9.511e-001	1.217e+000
0.25	1.284e+000	1.875e-001	1.466e-001	9.235e-002	1.527e-001	1.197e-001	4.484e-002	6.142e-002	6.094e-002	1.465e+000	1.230e+000	1.042e+000	1.355e+000
0.3	1.347e+000	1.699e-001	1.287e-001	7.900e-002	1.347e-001	1.387e-001	3.885e-002	5.463e-002	5.016e-002	1.540e+000	1.234e+000	1.148e+000	1.440e+000
0.4	1.371e+000	1.332e-001	9.927e-002	6.049e-002	1.000e-001	7.773e-002	3.016e-002	3.801e-002	3.294e-002	1.589e+000	1.151e+000	1.219e+000	1.504e+000
0.5	1.328e+000	1.119e-001	8.059e-002	4.938e-002	7.840e-002	4.953e-002	2.518e-002	2.921e-002	2.488e-002	1.459e+000	1.116e+000	1.222e+000	1.515e+000
0.75	1.129e+000	7.508e-002	5.585e-002	3.130e-002	5.385e-002	3.228e-002	1.477e-002	1.615e-002	1.446e-002	1.094e+000	8.981e-001	1.189e+000	1.348e+000
1	9.378e-001	5.688e-002	4.290e-002	2.335e-002	3.726e-002	2.301e-002	1.028e-002	1.065e-002	1.005e-002	8.866e-001	7.598e-001	9.882e-001	1.148e+000
1.5	6.759e-001	2.822e-002	2.290e-002	1.530e-002	2.197e-002	1.710e-002	4.997e-003	4.849e-003	5.796e-003	6.569e-001	5.241e-001	7.494e-001	7.951e-001
2	5.419e-001	1.809e-002	1.488e-002	1.142e-002	1.481e-002	9.881e-003	2.761e-003	2.591e-003	3.739e-003	5.059e-001	4.314e-001	6.246e-001	6.258e-001
3	3.630e-001	7.672e-003	1.004e-002	5.885e-003	8.060e-003	4.822e-003	1.123e-003	1.168e-003	2.400e-003	3.279e-001	3.140e-001	4.301e-001	3.915e-001
4	2.351e-001	4.105e-003	7.519e-003	3.575e-003	4.889e-003	1.045e-002	6.320e-004	6.461e-004	1.484e-003	2.230e-001	2.176e-001	2.650e-001	2.361e-001
5	1.591e-001	3.220e-003	6.011e-003	2.445e-003	3.776e-003	8.365e-003	3.950e-004	3.966e-004	1.077e-003	1.662e-001	1.484e-001	1.773e-001	1.430e-001
7.5	6.952e-002	1.415e-003	2.504e-003	1.120e-003	1.610e-003	3.558e-003	1.696e-004	1.697e-004	4.878e-004	8.348e-002	5.992e-002	7.306e-002	5.863e-002
10	3.809e-002	8.297e-004	1.424e-003	6.339e-004	9.796e-004	1.920e-003	1.008e-004	1.014e-004	2.466e-004	5.109e-002	2.944e-002	4.177e-002	2.798e-002

Deaggregation results for EZ-FRISK 8.07 Build 044

DEAGGREGATION: Magnitude
All magnitudes in Moment Magnitude scale.
Spectral Period: PGA
Amplitude: 0.5
Annual Frequency of Exceedance: 5.478e-004
Mode Magnitude: 7.15
Mode Rate (by magnitude): 8.466e-005
Mean Magnitude: 6.91

Magnitude	Probability Density
5.05	6.840e-003
5.15	4.790e-003
5.25	4.820e-003
5.35	4.897e-003
5.45	5.038e-003
5.55	4.943e-003
5.65	4.572e-003
5.75	4.235e-003
5.85	3.927e-003
5.95	3.652e-003
6.05	8.000e-003
6.15	5.030e-003
6.25	1.907e-002
6.35	5.992e-003
6.45	1.355e-002
6.55	5.754e-002
6.65	5.441e-002
6.75	6.959e-002
6.85	8.102e-002
6.95	1.390e-001
7.05	1.431e-001
7.15	1.545e-001
7.25	1.042e-001
7.35	6.082e-002
7.45	2.647e-002
7.55	7.201e-003
7.65	7.581e-004
7.75	6.519e-004
7.85	6.658e-004
7.95	6.894e-004
8.05	2.087e-292
8.15	2.087e-292
8.25	2.087e-292
8.35	2.087e-292
8.45	2.087e-292
8.55	2.087e-292
8.65	2.087e-292
8.75	2.087e-292
8.85	2.087e-292
8.95	2.087e-292

Integral : 1.000e+000

DEAGGREGATION: Distance
Spectral Period: PGA
Amplitude: 0.5
Annual Frequency of Exceedance: 5.478e-004
Mode Distance: 1.25
Mode Rate (by distance): 3.619e-004
Mean Distance: 5.53

Distance	Probability Density
1.25	6.606e-001
3.75	1.680e-002
6.25	4.661e-002
8.75	2.483e-002
11.25	4.159e-002
13.75	1.017e-001
16.25	2.758e-002
18.75	2.860e-002
21.25	2.284e-002
23.75	1.026e-002
26.25	3.295e-003
28.75	2.089e-003
31.25	1.867e-003
33.75	3.048e-003
36.25	2.971e-003
38.75	5.357e-004
41.25	1.050e-003
43.75	2.450e-004
46.25	7.183e-004
48.75	1.908e-004
51.25	6.452e-005
53.75	5.419e-004
56.25	3.668e-004
58.75	3.693e-004
61.25	1.520e-008

63.75	1.144e-009
66.25	2.617e-004
68.75	2.812e-010
71.25	2.891e-010
73.75	1.922e-004
76.25	5.484e-011
78.75	2.036e-292
81.25	2.036e-292
83.75	1.541e-004
86.25	2.036e-292
88.75	2.036e-292
91.25	2.036e-292
93.75	1.409e-004
96.25	2.036e-292
98.75	2.036e-292
101.25	4.956e-004

Integral : 1.000e+000

DEAGGREGATION: Epsilon

Spectral Period:	PGA
Amplitude:	0.5
Annual Frequency of Exceedance:	5.478e-004
Mode Epsilon:	-0.10
Mode Rate (by epsilon):	1.726e-004
Mean Epsilon:	0.48

Epsilon	Probability Density
-2.1	1.028e-004
-1.9	4.181e-005
-1.7	5.356e-005
-1.5	7.360e-005
-1.3	7.853e-005
-1.1	1.166e-004
-0.9	1.838e-004
-0.7	2.086e-004
-0.5	2.725e-004
-0.3	5.213e-002
-0.1	3.151e-001
0.1	3.471e-002
0.3	1.802e-001
0.5	1.197e-001
0.7	3.624e-002
0.9	3.606e-002
1.1	5.733e-002
1.3	3.055e-002
1.5	3.412e-002
1.7	3.411e-002
1.9	2.801e-002
2.1	1.549e-002
2.3	1.275e-002
2.5	7.607e-003
2.7	3.836e-003
2.9	9.597e-004
3.1	2.609e-292
3.3	2.609e-292
3.5	2.609e-292
3.7	2.609e-292
3.9	2.609e-292
4.1	2.609e-292

Integral : 1.000e+000

DEAGGREGATION: Magnitude - Distance

All magnitudes in Moment Magnitude scale.

Spectral Period:	PGA
Amplitude:	0.5
Annual Frequency of Exceedance:	5.478e-004
Mode Magnitude:	7.15
Mode Distance:	1.25
Mode Rate (by distance and magnitude):	6.536e-005
Mean Magnitude:	6.91
Mean Distance:	5.53

Magnitude	Distance	Probability Density
5.05	1.25	5.090e-294
5.05	3.75	5.090e-294
5.05	6.25	2.767e-003
5.05	8.75	1.560e-003
5.05	11.25	4.415e-004
5.05	13.75	1.173e-003
5.05	16.25	2.480e-004
5.05	18.75	5.090e-294
5.05	21.25	2.589e-004
5.05	23.75	8.181e-005
5.05	26.25	1.484e-004
5.05	28.75	4.089e-005
5.05	31.25	5.090e-294

5.05	33.75	5.838e-005
5.05	36.25	3.025e-005
5.05	38.75	5.090e-294
5.05	41.25	2.403e-005
5.05	43.75	5.090e-294
5.05	46.25	5.793e-006
5.05	48.75	5.090e-294
5.05	51.25	5.090e-294
5.05	53.75	1.855e-006
5.05	56.25	5.090e-294
5.05	58.75	5.090e-294
5.05	61.25	5.090e-294
5.05	63.75	5.090e-294
5.05	66.25	5.090e-294
5.05	68.75	5.090e-294
5.05	71.25	5.090e-294
5.05	73.75	5.090e-294
5.05	76.25	5.090e-294
5.05	78.75	5.090e-294
5.05	81.25	5.090e-294
5.05	83.75	5.090e-294
5.05	86.25	5.090e-294
5.05	88.75	5.090e-294
5.05	91.25	5.090e-294
5.05	93.75	5.090e-294
5.05	96.25	5.090e-294
5.05	98.75	5.090e-294
5.05	101.25	5.090e-294
5.15	1.25	5.090e-294
5.15	3.75	5.090e-294
5.15	6.25	2.272e-003
5.15	8.75	1.133e-003
5.15	11.25	3.062e-004
5.15	13.75	7.334e-004
5.15	16.25	1.234e-004
5.15	18.75	5.090e-294
5.15	21.25	9.745e-005
5.15	23.75	2.433e-005
5.15	26.25	4.090e-005
5.15	28.75	1.202e-005
5.15	31.25	5.090e-294
5.15	33.75	1.886e-005
5.15	36.25	1.069e-005
5.15	38.75	5.090e-294
5.15	41.25	1.080e-005
5.15	43.75	5.090e-294
5.15	46.25	3.748e-006
5.15	48.75	5.090e-294
5.15	51.25	5.090e-294
5.15	53.75	3.118e-006
5.15	56.25	5.090e-294
5.15	58.75	2.275e-007
5.15	61.25	5.090e-294
5.15	63.75	5.090e-294
5.15	66.25	5.090e-294
5.15	68.75	5.090e-294
5.15	71.25	5.090e-294
5.15	73.75	5.090e-294
5.15	76.25	5.090e-294
5.15	78.75	5.090e-294
5.15	81.25	5.090e-294
5.15	83.75	5.090e-294
5.15	86.25	5.090e-294
5.15	88.75	5.090e-294
5.15	91.25	5.090e-294
5.15	93.75	5.090e-294
5.15	96.25	5.090e-294
5.15	98.75	5.090e-294
5.15	101.25	5.090e-294
5.25	1.25	5.090e-294
5.25	3.75	5.090e-294
5.25	6.25	2.223e-003
5.25	8.75	1.140e-003
5.25	11.25	3.199e-004
5.25	13.75	7.671e-004
5.25	16.25	1.295e-004
5.25	18.75	5.090e-294
5.25	21.25	1.042e-004
5.25	23.75	2.783e-005
5.25	26.25	4.080e-005
5.25	28.75	1.255e-005
5.25	31.25	5.090e-294
5.25	33.75	2.042e-005
5.25	36.25	1.174e-005
5.25	38.75	5.090e-294
5.25	41.25	1.259e-005
5.25	43.75	5.090e-294
5.25	46.25	4.583e-006
5.25	48.75	5.090e-294
5.25	51.25	5.090e-294

5.25	53.75	4.511e-006
5.25	56.25	5.090e-294
5.25	58.75	1.475e-006
5.25	61.25	5.090e-294
5.25	63.75	5.090e-294
5.25	66.25	5.090e-294
5.25	68.75	5.090e-294
5.25	71.25	5.090e-294
5.25	73.75	5.090e-294
5.25	76.25	5.090e-294
5.25	78.75	5.090e-294
5.25	81.25	5.090e-294
5.25	83.75	5.090e-294
5.25	86.25	5.090e-294
5.25	88.75	5.090e-294
5.25	91.25	5.090e-294
5.25	93.75	5.090e-294
5.25	96.25	5.090e-294
5.25	98.75	5.090e-294
5.25	101.25	5.090e-294
5.35	1.25	5.090e-294
5.35	3.75	5.090e-294
5.35	6.25	2.174e-003
5.35	8.75	1.159e-003
5.35	11.25	3.382e-004
5.35	13.75	8.123e-004
5.35	16.25	1.409e-004
5.35	18.75	5.090e-294
5.35	21.25	1.218e-004
5.35	23.75	3.239e-005
5.35	26.25	4.165e-005
5.35	28.75	1.265e-005
5.35	31.25	5.090e-294
5.35	33.75	2.175e-005
5.35	36.25	1.275e-005
5.35	38.75	5.090e-294
5.35	41.25	1.435e-005
5.35	43.75	5.090e-294
5.35	46.25	5.564e-006
5.35	48.75	5.090e-294
5.35	51.25	5.090e-294
5.35	53.75	5.841e-006
5.35	56.25	5.090e-294
5.35	58.75	2.671e-006
5.35	61.25	5.090e-294
5.35	63.75	5.090e-294
5.35	66.25	4.689e-007
5.35	68.75	5.090e-294
5.35	71.25	5.090e-294
5.35	73.75	5.090e-294
5.35	76.25	5.090e-294
5.35	78.75	5.090e-294
5.35	81.25	5.090e-294
5.35	83.75	5.090e-294
5.35	86.25	5.090e-294
5.35	88.75	5.090e-294
5.35	91.25	5.090e-294
5.35	93.75	5.090e-294
5.35	96.25	5.090e-294
5.35	98.75	5.090e-294
5.35	101.25	5.090e-294
5.45	1.25	5.090e-294
5.45	3.75	5.090e-294
5.45	6.25	2.126e-003
5.45	8.75	1.195e-003
5.45	11.25	3.633e-004
5.45	13.75	8.786e-004
5.45	16.25	1.568e-004
5.45	18.75	5.090e-294
5.45	21.25	1.464e-004
5.45	23.75	4.285e-005
5.45	26.25	4.490e-005
5.45	28.75	1.252e-005
5.45	31.25	5.090e-294
5.45	33.75	2.275e-005
5.45	36.25	1.360e-005
5.45	38.75	5.090e-294
5.45	41.25	1.599e-005
5.45	43.75	5.090e-294
5.45	46.25	6.509e-006
5.45	48.75	5.090e-294
5.45	51.25	5.090e-294
5.45	53.75	7.053e-006
5.45	56.25	5.090e-294
5.45	58.75	3.780e-006
5.45	61.25	5.090e-294
5.45	63.75	5.090e-294
5.45	66.25	1.627e-006
5.45	68.75	5.090e-294
5.45	71.25	5.090e-294

5.45	73.75	8.972e-008
5.45	76.25	5.090e-294
5.45	78.75	5.090e-294
5.45	81.25	5.090e-294
5.45	83.75	5.090e-294
5.45	86.25	5.090e-294
5.45	88.75	5.090e-294
5.45	91.25	5.090e-294
5.45	93.75	5.090e-294
5.45	96.25	5.090e-294
5.45	98.75	5.090e-294
5.45	101.25	5.090e-294
5.55	1.25	5.090e-294
5.55	3.75	5.090e-294
5.55	6.25	1.968e-003
5.55	8.75	1.169e-003
5.55	11.25	3.659e-004
5.55	13.75	9.024e-004
5.55	16.25	1.657e-004
5.55	18.75	5.090e-294
5.55	21.25	1.733e-004
5.55	23.75	5.240e-005
5.55	26.25	5.517e-005
5.55	28.75	1.271e-005
5.55	31.25	5.090e-294
5.55	33.75	2.291e-005
5.55	36.25	1.425e-005
5.55	38.75	5.090e-294
5.55	41.25	1.734e-005
5.55	43.75	5.090e-294
5.55	46.25	7.418e-006
5.55	48.75	5.090e-294
5.55	51.25	5.090e-294
5.55	53.75	8.386e-006
5.55	56.25	5.090e-294
5.55	58.75	4.805e-006
5.55	61.25	5.090e-294
5.55	63.75	5.090e-294
5.55	66.25	2.706e-006
5.55	68.75	5.090e-294
5.55	71.25	5.090e-294
5.55	73.75	9.745e-007
5.55	76.25	5.090e-294
5.55	78.75	5.090e-294
5.55	81.25	5.090e-294
5.55	83.75	5.090e-294
5.55	86.25	5.090e-294
5.55	88.75	5.090e-294
5.55	91.25	5.090e-294
5.55	93.75	5.090e-294
5.55	96.25	5.090e-294
5.55	98.75	5.090e-294
5.55	101.25	5.090e-294
5.65	1.25	5.090e-294
5.65	3.75	5.090e-294
5.65	6.25	1.726e-003
5.65	8.75	1.073e-003
5.65	11.25	3.411e-004
5.65	13.75	8.633e-004
5.65	16.25	1.631e-004
5.65	18.75	5.090e-294
5.65	21.25	1.822e-004
5.65	23.75	5.920e-005
5.65	26.25	6.255e-005
5.65	28.75	1.464e-005
5.65	31.25	5.090e-294
5.65	33.75	2.276e-005
5.65	36.25	1.480e-005
5.65	38.75	5.090e-294
5.65	41.25	1.862e-005
5.65	43.75	5.090e-294
5.65	46.25	8.271e-006
5.65	48.75	5.090e-294
5.65	51.25	5.090e-294
5.65	53.75	9.938e-006
5.65	56.25	5.090e-294
5.65	58.75	6.091e-006
5.65	61.25	5.090e-294
5.65	63.75	5.090e-294
5.65	66.25	3.795e-006
5.65	68.75	5.090e-294
5.65	71.25	5.090e-294
5.65	73.75	2.179e-006
5.65	76.25	5.090e-294
5.65	78.75	5.090e-294
5.65	81.25	5.090e-294
5.65	83.75	6.834e-007
5.65	86.25	5.090e-294
5.65	88.75	5.090e-294
5.65	91.25	5.090e-294

5.65	93.75	3.719e-008
5.65	96.25	5.090e-294
5.65	98.75	5.090e-294
5.65	101.25	5.090e-294
5.75	1.25	5.090e-294
5.75	3.75	5.090e-294
5.75	6.25	1.513e-003
5.75	8.75	9.839e-004
5.75	11.25	3.176e-004
5.75	13.75	8.244e-004
5.75	16.25	1.598e-004
5.75	18.75	5.090e-294
5.75	21.25	1.884e-004
5.75	23.75	6.483e-005
5.75	26.25	6.945e-005
5.75	28.75	1.699e-005
5.75	31.25	5.090e-294
5.75	33.75	2.244e-005
5.75	36.25	1.494e-005
5.75	38.75	5.090e-294
5.75	41.25	1.987e-005
5.75	43.75	5.090e-294
5.75	46.25	9.074e-006
5.75	48.75	5.090e-294
5.75	51.25	5.090e-294
5.75	53.75	1.145e-005
5.75	56.25	5.090e-294
5.75	58.75	7.420e-006
5.75	61.25	5.090e-294
5.75	63.75	5.090e-294
5.75	66.25	5.187e-006
5.75	68.75	5.090e-294
5.75	71.25	5.090e-294
5.75	73.75	3.616e-006
5.75	76.25	5.090e-294
5.75	78.75	5.090e-294
5.75	81.25	5.090e-294
5.75	83.75	1.587e-006
5.75	86.25	5.090e-294
5.75	88.75	5.090e-294
5.75	91.25	5.090e-294
5.75	93.75	5.530e-007
5.75	96.25	5.090e-294
5.75	98.75	5.090e-294
5.75	101.25	1.311e-007
5.85	1.25	5.090e-294
5.85	3.75	5.090e-294
5.85	6.25	1.327e-003
5.85	8.75	9.014e-004
5.85	11.25	2.953e-004
5.85	13.75	7.854e-004
5.85	16.25	1.562e-004
5.85	18.75	5.090e-294
5.85	21.25	1.923e-004
5.85	23.75	6.943e-005
5.85	26.25	7.662e-005
5.85	28.75	1.976e-005
5.85	31.25	5.090e-294
5.85	33.75	2.140e-005
5.85	36.25	1.463e-005
5.85	38.75	5.090e-294
5.85	41.25	2.044e-005
5.85	43.75	5.090e-294
5.85	46.25	9.514e-006
5.85	48.75	5.090e-294
5.85	51.25	5.090e-294
5.85	53.75	1.242e-005
5.85	56.25	5.090e-294
5.85	58.75	8.349e-006
5.85	61.25	5.090e-294
5.85	63.75	5.090e-294
5.85	66.25	6.235e-006
5.85	68.75	5.090e-294
5.85	71.25	5.090e-294
5.85	73.75	4.907e-006
5.85	76.25	5.090e-294
5.85	78.75	5.090e-294
5.85	81.25	5.090e-294
5.85	83.75	3.101e-006
5.85	86.25	5.090e-294
5.85	88.75	5.090e-294
5.85	91.25	5.090e-294
5.85	93.75	1.336e-006
5.85	96.25	5.090e-294
5.85	98.75	5.090e-294
5.85	101.25	1.030e-006
5.95	1.25	5.090e-294
5.95	3.75	5.090e-294
5.95	6.25	1.164e-003
5.95	8.75	8.250e-004

5.95	11.25	2.744e-004
5.95	13.75	7.469e-004
5.95	16.25	1.526e-004
5.95	18.75	5.090e-294
5.95	21.25	1.956e-004
5.95	23.75	7.398e-005
5.95	26.25	8.505e-005
5.95	28.75	2.320e-005
5.95	31.25	5.090e-294
5.95	33.75	2.217e-005
5.95	36.25	1.400e-005
5.95	38.75	5.090e-294
5.95	41.25	2.031e-005
5.95	43.75	5.090e-294
5.95	46.25	9.830e-006
5.95	48.75	5.090e-294
5.95	51.25	5.090e-294
5.95	53.75	1.316e-005
5.95	56.25	5.090e-294
5.95	58.75	9.260e-006
5.95	61.25	5.090e-294
5.95	63.75	5.090e-294
5.95	66.25	7.187e-006
5.95	68.75	5.090e-294
5.95	71.25	5.090e-294
5.95	73.75	6.107e-006
5.95	76.25	5.090e-294
5.95	78.75	5.090e-294
5.95	81.25	5.090e-294
5.95	83.75	4.510e-006
5.95	86.25	5.090e-294
5.95	88.75	5.090e-294
5.95	91.25	5.090e-294
5.95	93.75	2.472e-006
5.95	96.25	5.090e-294
5.95	98.75	5.090e-294
5.95	101.25	2.815e-006
6.05	1.25	5.090e-294
6.05	3.75	5.090e-294
6.05	6.25	1.874e-003
6.05	8.75	8.045e-004
6.05	11.25	7.487e-004
6.05	13.75	1.669e-003
6.05	16.25	2.146e-003
6.05	18.75	1.953e-004
6.05	21.25	1.835e-004
6.05	23.75	1.399e-004
6.05	26.25	5.436e-005
6.05	28.75	4.798e-005
6.05	31.25	5.090e-294
6.05	33.75	2.866e-005
6.05	36.25	1.709e-005
6.05	38.75	5.090e-294
6.05	41.25	1.754e-005
6.05	43.75	5.090e-294
6.05	46.25	1.394e-005
6.05	48.75	5.090e-294
6.05	51.25	5.090e-294
6.05	53.75	1.377e-005
6.05	56.25	5.090e-294
6.05	58.75	1.006e-005
6.05	61.25	5.090e-294
6.05	63.75	5.090e-294
6.05	66.25	9.673e-006
6.05	68.75	5.090e-294
6.05	71.25	5.090e-294
6.05	73.75	8.119e-006
6.05	76.25	5.090e-294
6.05	78.75	5.090e-294
6.05	81.25	5.090e-294
6.05	83.75	6.266e-006
6.05	86.25	5.090e-294
6.05	88.75	5.090e-294
6.05	91.25	5.090e-294
6.05	93.75	5.103e-006
6.05	96.25	5.090e-294
6.05	98.75	5.090e-294
6.05	101.25	6.153e-006
6.15	1.25	5.090e-294
6.15	3.75	5.090e-294
6.15	6.25	1.821e-003
6.15	8.75	8.706e-004
6.15	11.25	6.705e-004
6.15	13.75	5.215e-004
6.15	16.25	2.657e-004
6.15	18.75	2.145e-004
6.15	21.25	2.258e-004
6.15	23.75	1.593e-004
6.15	26.25	5.729e-005
6.15	28.75	6.813e-005

6.15	31.25	5.090e-294
6.15	33.75	3.504e-005
6.15	36.25	1.856e-005
6.15	38.75	5.090e-294
6.15	41.25	1.655e-005
6.15	43.75	5.090e-294
6.15	46.25	1.519e-005
6.15	48.75	5.090e-294
6.15	51.25	5.090e-294
6.15	53.75	1.401e-005
6.15	56.25	5.090e-294
6.15	58.75	1.115e-005
6.15	61.25	5.090e-294
6.15	63.75	5.090e-294
6.15	66.25	1.029e-005
6.15	68.75	5.090e-294
6.15	71.25	5.090e-294
6.15	73.75	9.032e-006
6.15	76.25	5.090e-294
6.15	78.75	5.090e-294
6.15	81.25	5.090e-294
6.15	83.75	7.655e-006
6.15	86.25	5.090e-294
6.15	88.75	5.090e-294
6.15	91.25	5.090e-294
6.15	93.75	6.872e-006
6.15	96.25	5.090e-294
6.15	98.75	5.090e-294
6.15	101.25	1.087e-005
6.25	1.25	5.090e-294
6.25	3.75	5.090e-294
6.25	6.25	1.729e-003
6.25	8.75	9.067e-004
6.25	11.25	7.334e-004
6.25	13.75	5.797e-003
6.25	16.25	8.821e-003
6.25	18.75	2.844e-004
6.25	21.25	3.051e-004
6.25	23.75	1.524e-004
6.25	26.25	7.654e-005
6.25	28.75	8.386e-005
6.25	31.25	5.090e-294
6.25	33.75	4.232e-005
6.25	36.25	2.305e-005
6.25	38.75	5.090e-294
6.25	41.25	1.589e-005
6.25	43.75	5.090e-294
6.25	46.25	1.556e-005
6.25	48.75	5.090e-294
6.25	51.25	5.090e-294
6.25	53.75	1.432e-005
6.25	56.25	5.090e-294
6.25	58.75	1.221e-005
6.25	61.25	5.090e-294
6.25	63.75	5.090e-294
6.25	66.25	1.098e-005
6.25	68.75	5.090e-294
6.25	71.25	5.090e-294
6.25	73.75	1.002e-005
6.25	76.25	5.090e-294
6.25	78.75	5.090e-294
6.25	81.25	5.090e-294
6.25	83.75	8.778e-006
6.25	86.25	5.090e-294
6.25	88.75	5.090e-294
6.25	91.25	5.090e-294
6.25	93.75	8.308e-006
6.25	96.25	5.090e-294
6.25	98.75	5.090e-294
6.25	101.25	1.717e-005
6.35	1.25	5.090e-294
6.35	3.75	5.090e-294
6.35	6.25	1.771e-003
6.35	8.75	8.170e-004
6.35	11.25	8.391e-004
6.35	13.75	5.794e-004
6.35	16.25	4.668e-004
6.35	18.75	3.746e-004
6.35	21.25	6.117e-004
6.35	23.75	1.238e-004
6.35	26.25	1.067e-004
6.35	28.75	9.162e-005
6.35	31.25	5.090e-294
6.35	33.75	5.214e-005
6.35	36.25	3.073e-005
6.35	38.75	5.090e-294
6.35	41.25	1.865e-005
6.35	43.75	5.090e-294
6.35	46.25	1.501e-005
6.35	48.75	5.090e-294

6.35	51.25	5.090e-294
6.35	53.75	1.462e-005
6.35	56.25	5.090e-294
6.35	58.75	1.276e-005
6.35	61.25	5.090e-294
6.35	63.75	5.090e-294
6.35	66.25	1.163e-005
6.35	68.75	5.090e-294
6.35	71.25	5.090e-294
6.35	73.75	1.071e-005
6.35	76.25	5.090e-294
6.35	78.75	5.090e-294
6.35	81.25	5.090e-294
6.35	83.75	1.032e-005
6.35	86.25	5.090e-294
6.35	88.75	5.090e-294
6.35	91.25	5.090e-294
6.35	93.75	9.535e-006
6.35	96.25	5.090e-294
6.35	98.75	5.090e-294
6.35	101.25	2.441e-005
6.45	1.25	5.090e-294
6.45	3.75	5.090e-294
6.45	6.25	1.727e-003
6.45	8.75	8.039e-004
6.45	11.25	1.007e-003
6.45	13.75	3.160e-003
6.45	16.25	4.740e-003
6.45	18.75	5.081e-004
6.45	21.25	9.897e-004
6.45	23.75	1.184e-004
6.45	26.25	1.557e-004
6.45	28.75	8.901e-005
6.45	31.25	5.090e-294
6.45	33.75	6.572e-005
6.45	36.25	4.062e-005
6.45	38.75	5.090e-294
6.45	41.25	2.646e-005
6.45	43.75	5.090e-294
6.45	46.25	1.512e-005
6.45	48.75	5.090e-294
6.45	51.25	5.090e-294
6.45	53.75	1.463e-005
6.45	56.25	5.090e-294
6.45	58.75	1.286e-005
6.45	61.25	5.090e-294
6.45	63.75	5.090e-294
6.45	66.25	1.223e-005
6.45	68.75	5.090e-294
6.45	71.25	5.090e-294
6.45	73.75	1.144e-005
6.45	76.25	5.090e-294
6.45	78.75	5.090e-294
6.45	81.25	5.090e-294
6.45	83.75	1.148e-005
6.45	86.25	5.090e-294
6.45	88.75	5.090e-294
6.45	91.25	5.090e-294
6.45	93.75	1.080e-005
6.45	96.25	5.090e-294
6.45	98.75	5.090e-294
6.45	101.25	3.273e-005
6.55	1.25	3.548e-002
6.55	3.75	5.512e-003
6.55	6.25	2.903e-003
6.55	8.75	1.848e-003
6.55	11.25	3.286e-003
6.55	13.75	1.533e-003
6.55	16.25	3.094e-003
6.55	18.75	1.226e-003
6.55	21.25	1.595e-003
6.55	23.75	2.994e-004
6.55	26.25	2.102e-004
6.55	28.75	1.283e-004
6.55	31.25	1.087e-004
6.55	33.75	1.017e-004
6.55	36.25	6.962e-005
6.55	38.75	3.867e-006
6.55	41.25	2.952e-005
6.55	43.75	4.460e-008
6.55	46.25	1.559e-005
6.55	48.75	5.090e-294
6.55	51.25	5.090e-294
6.55	53.75	1.149e-005
6.55	56.25	5.090e-294
6.55	58.75	1.077e-005
6.55	61.25	5.090e-294
6.55	63.75	5.090e-294
6.55	66.25	9.901e-006
6.55	68.75	5.090e-294

6.55	71.25	5.090e-294
6.55	73.75	9.845e-006
6.55	76.25	5.090e-294
6.55	78.75	5.090e-294
6.55	81.25	5.090e-294
6.55	83.75	9.635e-006
6.55	86.25	5.090e-294
6.55	88.75	5.090e-294
6.55	91.25	5.090e-294
6.55	93.75	9.799e-006
6.55	96.25	5.090e-294
6.55	98.75	5.090e-294
6.55	101.25	3.330e-005
6.65	1.25	3.677e-002
6.65	3.75	2.498e-003
6.65	6.25	3.010e-003
6.65	8.75	1.662e-003
6.65	11.25	2.090e-003
6.65	13.75	2.918e-003
6.65	16.25	1.627e-003
6.65	18.75	8.211e-004
6.65	21.25	1.587e-003
6.65	23.75	4.285e-004
6.65	26.25	2.350e-004
6.65	28.75	1.408e-004
6.65	31.25	1.681e-004
6.65	33.75	1.487e-004
6.65	36.25	1.141e-004
6.65	38.75	1.910e-005
6.65	41.25	3.937e-005
6.65	43.75	2.101e-009
6.65	46.25	2.360e-005
6.65	48.75	5.090e-294
6.65	51.25	5.090e-294
6.65	53.75	1.306e-005
6.65	56.25	5.090e-294
6.65	58.75	1.093e-005
6.65	61.25	5.090e-294
6.65	63.75	5.090e-294
6.65	66.25	1.017e-005
6.65	68.75	5.090e-294
6.65	71.25	5.090e-294
6.65	73.75	1.043e-005
6.65	76.25	5.090e-294
6.65	78.75	5.090e-294
6.65	81.25	5.090e-294
6.65	83.75	1.009e-005
6.65	86.25	5.090e-294
6.65	88.75	5.090e-294
6.65	91.25	5.090e-294
6.65	93.75	1.076e-005
6.65	96.25	5.090e-294
6.65	98.75	5.090e-294
6.65	101.25	4.067e-005
6.75	1.25	4.459e-002
6.75	3.75	2.921e-003
6.75	6.25	2.415e-003
6.75	8.75	1.758e-003
6.75	11.25	2.490e-003
6.75	13.75	4.553e-003
6.75	16.25	1.173e-003
6.75	18.75	3.985e-003
6.75	21.25	3.047e-003
6.75	23.75	1.285e-003
6.75	26.25	2.451e-004
6.75	28.75	1.726e-004
6.75	31.25	2.451e-004
6.75	33.75	2.402e-004
6.75	36.25	2.128e-004
6.75	38.75	4.427e-005
6.75	41.25	5.584e-005
6.75	43.75	1.479e-007
6.75	46.25	3.389e-005
6.75	48.75	5.090e-294
6.75	51.25	5.090e-294
6.75	53.75	1.848e-005
6.75	56.25	5.090e-294
6.75	58.75	1.165e-005
6.75	61.25	5.090e-294
6.75	63.75	5.090e-294
6.75	66.25	1.056e-005
6.75	68.75	5.090e-294
6.75	71.25	5.090e-294
6.75	73.75	1.054e-005
6.75	76.25	5.090e-294
6.75	78.75	5.090e-294
6.75	81.25	5.090e-294
6.75	83.75	1.052e-005
6.75	86.25	5.090e-294
6.75	88.75	5.090e-294

6.75	91.25	5.090e-294
6.75	93.75	1.211e-005
6.75	96.25	5.090e-294
6.75	98.75	5.090e-294
6.75	101.25	4.782e-005
6.85	1.25	5.636e-002
6.85	3.75	3.255e-003
6.85	6.25	2.983e-003
6.85	8.75	1.399e-003
6.85	11.25	3.486e-003
6.85	13.75	8.813e-003
6.85	16.25	8.377e-004
6.85	18.75	7.005e-004
6.85	21.25	1.003e-003
6.85	23.75	4.688e-004
6.85	26.25	2.671e-004
6.85	28.75	1.373e-004
6.85	31.25	3.107e-004
6.85	33.75	3.478e-004
6.85	36.25	3.099e-004
6.85	38.75	9.237e-005
6.85	41.25	6.780e-005
6.85	43.75	2.543e-006
6.85	46.25	3.839e-005
6.85	48.75	5.090e-294
6.85	51.25	5.090e-294
6.85	53.75	2.427e-005
6.85	56.25	5.090e-294
6.85	58.75	1.277e-005
6.85	61.25	5.090e-294
6.85	63.75	5.090e-294
6.85	66.25	1.013e-005
6.85	68.75	5.090e-294
6.85	71.25	5.090e-294
6.85	73.75	1.049e-005
6.85	76.25	5.090e-294
6.85	78.75	5.090e-294
6.85	81.25	5.090e-294
6.85	83.75	1.057e-005
6.85	86.25	5.090e-294
6.85	88.75	5.090e-294
6.85	91.25	5.090e-294
6.85	93.75	1.287e-005
6.85	96.25	5.090e-294
6.85	98.75	5.090e-294
6.85	101.25	5.344e-005
6.95	1.25	8.822e-002
6.95	3.75	2.611e-003
6.95	6.25	1.121e-003
6.95	8.75	4.589e-004
6.95	11.25	4.981e-003
6.95	13.75	1.409e-002
6.95	16.25	9.713e-004
6.95	18.75	1.342e-002
6.95	21.25	7.377e-003
6.95	23.75	3.867e-003
6.95	26.25	1.553e-004
6.95	28.75	1.423e-004
6.95	31.25	3.397e-004
6.95	33.75	3.837e-004
6.95	36.25	4.446e-004
6.95	38.75	1.266e-004
6.95	41.25	6.732e-005
6.95	43.75	9.074e-006
6.95	46.25	4.412e-005
6.95	48.75	1.255e-007
6.95	51.25	5.090e-294
6.95	53.75	2.837e-005
6.95	56.25	5.090e-294
6.95	58.75	1.681e-005
6.95	61.25	5.090e-294
6.95	63.75	5.090e-294
6.95	66.25	1.024e-005
6.95	68.75	5.090e-294
6.95	71.25	5.090e-294
6.95	73.75	9.936e-006
6.95	76.25	5.090e-294
6.95	78.75	5.090e-294
6.95	81.25	5.090e-294
6.95	83.75	1.131e-005
6.95	86.25	5.090e-294
6.95	88.75	5.090e-294
6.95	91.25	5.090e-294
6.95	93.75	1.272e-005
6.95	96.25	5.090e-294
6.95	98.75	5.090e-294
6.95	101.25	5.855e-005
7.05	1.25	1.140e-001
7.05	3.75	5.090e-294
7.05	6.25	1.149e-003

7.05	8.75	4.688e-004
7.05	11.25	5.975e-003
7.05	13.75	1.771e-002
7.05	16.25	8.536e-004
7.05	18.75	5.344e-004
7.05	21.25	3.373e-004
7.05	23.75	1.930e-004
7.05	26.25	1.849e-004
7.05	28.75	1.242e-004
7.05	31.25	3.201e-004
7.05	33.75	3.769e-004
7.05	36.25	4.774e-004
7.05	38.75	1.040e-004
7.05	41.25	6.506e-005
7.05	43.75	2.712e-005
7.05	46.25	5.094e-005
7.05	48.75	1.475e-006
7.05	51.25	7.739e-007
7.05	53.75	2.892e-005
7.05	56.25	5.090e-294
7.05	58.75	1.646e-005
7.05	61.25	5.090e-294
7.05	63.75	5.090e-294
7.05	66.25	6.614e-006
7.05	68.75	5.090e-294
7.05	71.25	5.090e-294
7.05	73.75	3.653e-006
7.05	76.25	5.090e-294
7.05	78.75	5.090e-294
7.05	81.25	5.090e-294
7.05	83.75	4.240e-006
7.05	86.25	5.090e-294
7.05	88.75	5.090e-294
7.05	91.25	5.090e-294
7.05	93.75	4.728e-006
7.05	96.25	5.090e-294
7.05	98.75	5.090e-294
7.05	101.25	2.357e-005
7.15	1.25	1.193e-001
7.15	3.75	5.090e-294
7.15	6.25	1.148e-003
7.15	8.75	3.993e-004
7.15	11.25	5.688e-003
7.15	13.75	1.565e-002
7.15	16.25	2.169e-004
7.15	18.75	5.559e-003
7.15	21.25	3.149e-003
7.15	23.75	1.778e-003
7.15	26.25	1.743e-004
7.15	28.75	1.305e-004
7.15	31.25	2.219e-004
7.15	33.75	3.056e-004
7.15	36.25	4.005e-004
7.15	38.75	8.242e-005
7.15	41.25	7.705e-005
7.15	43.75	5.089e-005
7.15	46.25	5.714e-005
7.15	48.75	7.251e-006
7.15	51.25	7.506e-006
7.15	53.75	3.922e-005
7.15	56.25	1.391e-005
7.15	58.75	2.244e-005
7.15	61.25	5.090e-294
7.15	63.75	5.090e-294
7.15	66.25	1.187e-005
7.15	68.75	5.090e-294
7.15	71.25	5.090e-294
7.15	73.75	4.727e-006
7.15	76.25	5.090e-294
7.15	78.75	5.090e-294
7.15	81.25	5.090e-294
7.15	83.75	3.987e-006
7.15	86.25	5.090e-294
7.15	88.75	5.090e-294
7.15	91.25	5.090e-294
7.15	93.75	4.677e-006
7.15	96.25	5.090e-294
7.15	98.75	5.090e-294
7.15	101.25	2.497e-005
7.25	1.25	8.754e-002
7.25	3.75	1.640e-006
7.25	6.25	8.660e-004
7.25	8.75	4.134e-004
7.25	11.25	3.466e-003
7.25	13.75	9.724e-003
7.25	16.25	2.122e-004
7.25	18.75	2.267e-004
7.25	21.25	1.905e-004
7.25	23.75	1.921e-004
7.25	26.25	1.833e-004

7.25	28.75	1.388e-004
7.25	31.25	1.102e-004
7.25	33.75	2.173e-004
7.25	36.25	2.707e-004
7.25	38.75	4.473e-005
7.25	41.25	8.403e-005
7.25	43.75	6.108e-005
7.25	46.25	6.797e-005
7.25	48.75	1.944e-005
7.25	51.25	2.454e-005
7.25	53.75	4.676e-005
7.25	56.25	5.476e-005
7.25	58.75	3.005e-005
7.25	61.25	2.379e-009
7.25	63.75	5.090e-294
7.25	66.25	1.671e-005
7.25	68.75	5.090e-294
7.25	71.25	5.090e-294
7.25	73.75	7.706e-006
7.25	76.25	5.090e-294
7.25	78.75	5.090e-294
7.25	81.25	5.090e-294
7.25	83.75	3.947e-006
7.25	86.25	5.090e-294
7.25	88.75	5.090e-294
7.25	91.25	5.090e-294
7.25	93.75	4.700e-006
7.25	96.25	5.090e-294
7.25	98.75	5.090e-294
7.25	101.25	2.595e-005
7.35	1.25	5.137e-002
7.35	3.75	5.090e-294
7.35	6.25	9.510e-004
7.35	8.75	3.694e-004
7.35	11.25	1.630e-003
7.35	13.75	4.437e-003
7.35	16.25	2.057e-004
7.35	18.75	1.998e-004
7.35	21.25	2.032e-004
7.35	23.75	1.918e-004
7.35	26.25	1.890e-004
7.35	28.75	1.348e-004
7.35	31.25	4.248e-005
7.35	33.75	1.713e-004
7.35	36.25	1.733e-004
7.35	38.75	1.834e-005
7.35	41.25	9.368e-005
7.35	43.75	5.332e-005
7.35	46.25	7.668e-005
7.35	48.75	3.828e-005
7.35	51.25	1.247e-005
7.35	53.75	5.177e-005
7.35	56.25	9.852e-005
7.35	58.75	3.684e-005
7.35	61.25	1.085e-008
7.35	63.75	1.303e-010
7.35	66.25	2.228e-005
7.35	68.75	5.090e-294
7.35	71.25	5.090e-294
7.35	73.75	1.185e-005
7.35	76.25	5.090e-294
7.35	78.75	5.090e-294
7.35	81.25	5.090e-294
7.35	83.75	5.609e-006
7.35	86.25	5.090e-294
7.35	88.75	5.090e-294
7.35	91.25	5.090e-294
7.35	93.75	4.586e-006
7.35	96.25	5.090e-294
7.35	98.75	5.090e-294
7.35	101.25	2.654e-005
7.45	1.25	2.042e-002
7.45	3.75	3.866e-006
7.45	6.25	1.008e-003
7.45	8.75	4.056e-004
7.45	11.25	8.466e-004
7.45	13.75	1.734e-003
7.45	16.25	2.164e-004
7.45	18.75	2.028e-004
7.45	21.25	2.256e-004
7.45	23.75	1.834e-004
7.45	26.25	1.992e-004
7.45	28.75	1.613e-004
7.45	31.25	4.480e-008
7.45	33.75	1.529e-004
7.45	36.25	1.151e-004
7.45	38.75	2.932e-008
7.45	41.25	1.069e-004
7.45	43.75	2.871e-005
7.45	46.25	8.511e-005

7.45	48.75	5.088e-005
7.45	51.25	1.923e-005
7.45	53.75	6.425e-005
7.45	56.25	1.036e-004
7.45	58.75	4.402e-005
7.45	61.25	9.012e-010
7.45	63.75	3.991e-010
7.45	66.25	3.034e-005
7.45	68.75	5.090e-294
7.45	71.25	5.090e-294
7.45	73.75	1.699e-005
7.45	76.25	5.090e-294
7.45	78.75	5.090e-294
7.45	81.25	5.090e-294
7.45	83.75	9.423e-006
7.45	86.25	5.090e-294
7.45	88.75	5.090e-294
7.45	91.25	5.090e-294
7.45	93.75	4.940e-006
7.45	96.25	5.090e-294
7.45	98.75	5.090e-294
7.45	101.25	2.683e-005
7.55	1.25	6.465e-003
7.55	3.75	5.090e-294
7.55	6.25	1.718e-004
7.55	8.75	6.132e-005
7.55	11.25	5.945e-005
7.55	13.75	6.385e-005
7.55	16.25	2.229e-005
7.55	18.75	3.117e-005
7.55	21.25	2.870e-005
7.55	23.75	2.777e-005
7.55	26.25	2.440e-005
7.55	28.75	2.170e-005
7.55	31.25	5.090e-294
7.55	33.75	2.150e-005
7.55	36.25	1.672e-005
7.55	38.75	5.090e-294
7.55	41.25	1.566e-005
7.55	43.75	1.201e-005
7.55	46.25	1.255e-005
7.55	48.75	3.975e-005
7.55	51.25	5.090e-294
7.55	53.75	1.023e-005
7.55	56.25	6.589e-005
7.55	58.75	7.367e-006
7.55	61.25	5.090e-294
7.55	63.75	5.090e-294
7.55	66.25	5.550e-006
7.55	68.75	5.090e-294
7.55	71.25	5.090e-294
7.55	73.75	3.768e-006
7.55	76.25	5.090e-294
7.55	78.75	5.090e-294
7.55	81.25	5.090e-294
7.55	83.75	2.564e-006
7.55	86.25	5.090e-294
7.55	88.75	5.090e-294
7.55	91.25	5.090e-294
7.55	93.75	1.690e-006
7.55	96.25	5.090e-294
7.55	98.75	5.090e-294
7.55	101.25	8.940e-006
7.65	1.25	2.043e-005
7.65	3.75	5.530e-007
7.65	6.25	1.720e-004
7.65	8.75	6.505e-005
7.65	11.25	5.972e-005
7.65	13.75	6.522e-005
7.65	16.25	2.747e-005
7.65	18.75	3.158e-005
7.65	21.25	2.703e-005
7.65	23.75	3.026e-005
7.65	26.25	2.839e-005
7.65	28.75	2.289e-005
7.65	31.25	1.761e-008
7.65	33.75	2.416e-005
7.65	36.25	1.986e-005
7.65	38.75	1.265e-008
7.65	41.25	1.802e-005
7.65	43.75	7.281e-009
7.65	46.25	1.574e-005
7.65	48.75	2.360e-005
7.65	51.25	5.459e-010
7.65	53.75	1.311e-005
7.65	56.25	3.012e-005
7.65	58.75	1.072e-005
7.65	61.25	1.063e-009
7.65	63.75	6.143e-010
7.65	66.25	8.514e-006

7.65	68.75	2.812e-010
7.65	71.25	2.891e-010
7.65	73.75	6.795e-006
7.65	76.25	5.484e-011
7.65	78.75	5.090e-294
7.65	81.25	5.090e-294
7.65	83.75	5.684e-006
7.65	86.25	5.090e-294
7.65	88.75	5.090e-294
7.65	91.25	5.090e-294
7.65	93.75	5.167e-006
7.65	96.25	5.090e-294
7.65	98.75	5.090e-294
7.65	101.25	2.602e-005
7.75	1.25	5.090e-294
7.75	3.75	5.090e-294
7.75	6.25	1.750e-004
7.75	8.75	6.268e-005
7.75	11.25	5.416e-005
7.75	13.75	6.850e-005
7.75	16.25	2.678e-005
7.75	18.75	2.758e-005
7.75	21.25	2.991e-005
7.75	23.75	3.068e-005
7.75	26.25	2.468e-005
7.75	28.75	2.505e-005
7.75	31.25	5.090e-294
7.75	33.75	2.305e-005
7.75	36.25	2.020e-005
7.75	38.75	5.090e-294
7.75	41.25	1.799e-005
7.75	43.75	5.090e-294
7.75	46.25	1.551e-005
7.75	48.75	9.968e-006
7.75	51.25	5.090e-294
7.75	53.75	1.282e-005
7.75	56.25	5.090e-294
7.75	58.75	1.028e-005
7.75	61.25	5.090e-294
7.75	63.75	5.090e-294
7.75	66.25	7.515e-006
7.75	68.75	5.090e-294
7.75	71.25	5.090e-294
7.75	73.75	4.695e-006
7.75	76.25	5.090e-294
7.75	78.75	5.090e-294
7.75	81.25	5.090e-294
7.75	83.75	2.971e-006
7.75	86.25	5.090e-294
7.75	88.75	5.090e-294
7.75	91.25	5.090e-294
7.75	93.75	1.488e-006
7.75	96.25	5.090e-294
7.75	98.75	5.090e-294
7.75	101.25	4.425e-007
7.85	1.25	5.090e-294
7.85	3.75	5.090e-294
7.85	6.25	1.759e-004
7.85	8.75	6.121e-005
7.85	11.25	5.689e-005
7.85	13.75	6.492e-005
7.85	16.25	3.046e-005
7.85	18.75	3.020e-005
7.85	21.25	2.949e-005
7.85	23.75	2.969e-005
7.85	26.25	2.878e-005
7.85	28.75	2.430e-005
7.85	31.25	5.090e-294
7.85	33.75	2.631e-005
7.85	36.25	2.162e-005
7.85	38.75	5.090e-294
7.85	41.25	2.006e-005
7.85	43.75	5.090e-294
7.85	46.25	1.776e-005
7.85	48.75	5.090e-294
7.85	51.25	5.090e-294
7.85	53.75	1.420e-005
7.85	56.25	5.090e-294
7.85	58.75	1.174e-005
7.85	61.25	5.090e-294
7.85	63.75	5.090e-294
7.85	66.25	8.912e-006
7.85	68.75	5.090e-294
7.85	71.25	5.090e-294
7.85	73.75	6.027e-006
7.85	76.25	5.090e-294
7.85	78.75	5.090e-294
7.85	81.25	5.090e-294
7.85	83.75	3.919e-006
7.85	86.25	5.090e-294

7.85	88.75	5.090e-294
7.85	91.25	5.090e-294
7.85	93.75	2.284e-006
7.85	96.25	5.090e-294
7.85	98.75	5.090e-294
7.85	101.25	1.170e-006
7.95	1.25	5.090e-294
7.95	3.75	5.090e-294
7.95	6.25	1.748e-004
7.95	8.75	6.100e-005
7.95	11.25	5.912e-005
7.95	13.75	6.451e-005
7.95	16.25	3.365e-005
7.95	18.75	2.625e-005
7.95	21.25	3.248e-005
7.95	23.75	3.172e-005
7.95	26.25	2.964e-005
7.95	28.75	2.605e-005
7.95	31.25	5.090e-294
7.95	33.75	2.873e-005
7.95	36.25	2.313e-005
7.95	38.75	5.090e-294
7.95	41.25	2.224e-005
7.95	43.75	5.090e-294
7.95	46.25	1.821e-005
7.95	48.75	5.090e-294
7.95	51.25	5.090e-294
7.95	53.75	1.584e-005
7.95	56.25	5.090e-294
7.95	58.75	1.338e-005
7.95	61.25	5.090e-294
7.95	63.75	5.090e-294
7.95	66.25	1.039e-005
7.95	68.75	5.090e-294
7.95	71.25	5.090e-294
7.95	73.75	7.588e-006
7.95	76.25	5.090e-294
7.95	78.75	5.090e-294
7.95	81.25	5.090e-294
7.95	83.75	5.267e-006
7.95	86.25	5.090e-294
7.95	88.75	5.090e-294
7.95	91.25	5.090e-294
7.95	93.75	3.324e-006
7.95	96.25	5.090e-294
7.95	98.75	5.090e-294
7.95	101.25	2.125e-006
8.05	1.25	5.090e-294
8.05	3.75	5.090e-294
8.05	6.25	5.090e-294
8.05	8.75	5.090e-294
8.05	11.25	5.090e-294
8.05	13.75	5.090e-294
8.05	16.25	5.090e-294
8.05	18.75	5.090e-294
8.05	21.25	5.090e-294
8.05	23.75	5.090e-294
8.05	26.25	5.090e-294
8.05	28.75	5.090e-294
8.05	31.25	5.090e-294
8.05	33.75	5.090e-294
8.05	36.25	5.090e-294
8.05	38.75	5.090e-294
8.05	41.25	5.090e-294
8.05	43.75	5.090e-294
8.05	46.25	5.090e-294
8.05	48.75	5.090e-294
8.05	51.25	5.090e-294
8.05	53.75	5.090e-294
8.05	56.25	5.090e-294
8.05	58.75	5.090e-294
8.05	61.25	5.090e-294
8.05	63.75	5.090e-294
8.05	66.25	5.090e-294
8.05	68.75	5.090e-294
8.05	71.25	5.090e-294
8.05	73.75	5.090e-294
8.05	76.25	5.090e-294
8.05	78.75	5.090e-294
8.05	81.25	5.090e-294
8.05	83.75	5.090e-294
8.05	86.25	5.090e-294
8.05	88.75	5.090e-294
8.05	91.25	5.090e-294
8.05	93.75	5.090e-294
8.05	96.25	5.090e-294
8.05	98.75	5.090e-294
8.05	101.25	5.090e-294
8.15	1.25	5.090e-294
8.15	3.75	5.090e-294

8.15	6.25	5.090e-294
8.15	8.75	5.090e-294
8.15	11.25	5.090e-294
8.15	13.75	5.090e-294
8.15	16.25	5.090e-294
8.15	18.75	5.090e-294
8.15	21.25	5.090e-294
8.15	23.75	5.090e-294
8.15	26.25	5.090e-294
8.15	28.75	5.090e-294
8.15	31.25	5.090e-294
8.15	33.75	5.090e-294
8.15	36.25	5.090e-294
8.15	38.75	5.090e-294
8.15	41.25	5.090e-294
8.15	43.75	5.090e-294
8.15	46.25	5.090e-294
8.15	48.75	5.090e-294
8.15	51.25	5.090e-294
8.15	53.75	5.090e-294
8.15	56.25	5.090e-294
8.15	58.75	5.090e-294
8.15	61.25	5.090e-294
8.15	63.75	5.090e-294
8.15	66.25	5.090e-294
8.15	68.75	5.090e-294
8.15	71.25	5.090e-294
8.15	73.75	5.090e-294
8.15	76.25	5.090e-294
8.15	78.75	5.090e-294
8.15	81.25	5.090e-294
8.15	83.75	5.090e-294
8.15	86.25	5.090e-294
8.15	88.75	5.090e-294
8.15	91.25	5.090e-294
8.15	93.75	5.090e-294
8.15	96.25	5.090e-294
8.15	98.75	5.090e-294
8.15	101.25	5.090e-294
8.25	1.25	5.090e-294
8.25	3.75	5.090e-294
8.25	6.25	5.090e-294
8.25	8.75	5.090e-294
8.25	11.25	5.090e-294
8.25	13.75	5.090e-294
8.25	16.25	5.090e-294
8.25	18.75	5.090e-294
8.25	21.25	5.090e-294
8.25	23.75	5.090e-294
8.25	26.25	5.090e-294
8.25	28.75	5.090e-294
8.25	31.25	5.090e-294
8.25	33.75	5.090e-294
8.25	36.25	5.090e-294
8.25	38.75	5.090e-294
8.25	41.25	5.090e-294
8.25	43.75	5.090e-294
8.25	46.25	5.090e-294
8.25	48.75	5.090e-294
8.25	51.25	5.090e-294
8.25	53.75	5.090e-294
8.25	56.25	5.090e-294
8.25	58.75	5.090e-294
8.25	61.25	5.090e-294
8.25	63.75	5.090e-294
8.25	66.25	5.090e-294
8.25	68.75	5.090e-294
8.25	71.25	5.090e-294
8.25	73.75	5.090e-294
8.25	76.25	5.090e-294
8.25	78.75	5.090e-294
8.25	81.25	5.090e-294
8.25	83.75	5.090e-294
8.25	86.25	5.090e-294
8.25	88.75	5.090e-294
8.25	91.25	5.090e-294
8.25	93.75	5.090e-294
8.25	96.25	5.090e-294
8.25	98.75	5.090e-294
8.25	101.25	5.090e-294
8.35	1.25	5.090e-294
8.35	3.75	5.090e-294
8.35	6.25	5.090e-294
8.35	8.75	5.090e-294
8.35	11.25	5.090e-294
8.35	13.75	5.090e-294
8.35	16.25	5.090e-294
8.35	18.75	5.090e-294
8.35	21.25	5.090e-294
8.35	23.75	5.090e-294

8.35	26.25	5.090e-294
8.35	28.75	5.090e-294
8.35	31.25	5.090e-294
8.35	33.75	5.090e-294
8.35	36.25	5.090e-294
8.35	38.75	5.090e-294
8.35	41.25	5.090e-294
8.35	43.75	5.090e-294
8.35	46.25	5.090e-294
8.35	48.75	5.090e-294
8.35	51.25	5.090e-294
8.35	53.75	5.090e-294
8.35	56.25	5.090e-294
8.35	58.75	5.090e-294
8.35	61.25	5.090e-294
8.35	63.75	5.090e-294
8.35	66.25	5.090e-294
8.35	68.75	5.090e-294
8.35	71.25	5.090e-294
8.35	73.75	5.090e-294
8.35	76.25	5.090e-294
8.35	78.75	5.090e-294
8.35	81.25	5.090e-294
8.35	83.75	5.090e-294
8.35	86.25	5.090e-294
8.35	88.75	5.090e-294
8.35	91.25	5.090e-294
8.35	93.75	5.090e-294
8.35	96.25	5.090e-294
8.35	98.75	5.090e-294
8.35	101.25	5.090e-294
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8.45	3.75	5.090e-294
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8.45	11.25	5.090e-294
8.45	13.75	5.090e-294
8.45	16.25	5.090e-294
8.45	18.75	5.090e-294
8.45	21.25	5.090e-294
8.45	23.75	5.090e-294
8.45	26.25	5.090e-294
8.45	28.75	5.090e-294
8.45	31.25	5.090e-294
8.45	33.75	5.090e-294
8.45	36.25	5.090e-294
8.45	38.75	5.090e-294
8.45	41.25	5.090e-294
8.45	43.75	5.090e-294
8.45	46.25	5.090e-294
8.45	48.75	5.090e-294
8.45	51.25	5.090e-294
8.45	53.75	5.090e-294
8.45	56.25	5.090e-294
8.45	58.75	5.090e-294
8.45	61.25	5.090e-294
8.45	63.75	5.090e-294
8.45	66.25	5.090e-294
8.45	68.75	5.090e-294
8.45	71.25	5.090e-294
8.45	73.75	5.090e-294
8.45	76.25	5.090e-294
8.45	78.75	5.090e-294
8.45	81.25	5.090e-294
8.45	83.75	5.090e-294
8.45	86.25	5.090e-294
8.45	88.75	5.090e-294
8.45	91.25	5.090e-294
8.45	93.75	5.090e-294
8.45	96.25	5.090e-294
8.45	98.75	5.090e-294
8.45	101.25	5.090e-294
8.55	1.25	5.090e-294
8.55	3.75	5.090e-294
8.55	6.25	5.090e-294
8.55	8.75	5.090e-294
8.55	11.25	5.090e-294
8.55	13.75	5.090e-294
8.55	16.25	5.090e-294
8.55	18.75	5.090e-294
8.55	21.25	5.090e-294
8.55	23.75	5.090e-294
8.55	26.25	5.090e-294
8.55	28.75	5.090e-294
8.55	31.25	5.090e-294
8.55	33.75	5.090e-294
8.55	36.25	5.090e-294
8.55	38.75	5.090e-294
8.55	41.25	5.090e-294
8.55	43.75	5.090e-294

8.55	46.25	5.090e-294
8.55	48.75	5.090e-294
8.55	51.25	5.090e-294
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8.55	56.25	5.090e-294
8.55	58.75	5.090e-294
8.55	61.25	5.090e-294
8.55	63.75	5.090e-294
8.55	66.25	5.090e-294
8.55	68.75	5.090e-294
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8.55	73.75	5.090e-294
8.55	76.25	5.090e-294
8.55	78.75	5.090e-294
8.55	81.25	5.090e-294
8.55	83.75	5.090e-294
8.55	86.25	5.090e-294
8.55	88.75	5.090e-294
8.55	91.25	5.090e-294
8.55	93.75	5.090e-294
8.55	96.25	5.090e-294
8.55	98.75	5.090e-294
8.55	101.25	5.090e-294
8.65	1.25	5.090e-294
8.65	3.75	5.090e-294
8.65	6.25	5.090e-294
8.65	8.75	5.090e-294
8.65	11.25	5.090e-294
8.65	13.75	5.090e-294
8.65	16.25	5.090e-294
8.65	18.75	5.090e-294
8.65	21.25	5.090e-294
8.65	23.75	5.090e-294
8.65	26.25	5.090e-294
8.65	28.75	5.090e-294
8.65	31.25	5.090e-294
8.65	33.75	5.090e-294
8.65	36.25	5.090e-294
8.65	38.75	5.090e-294
8.65	41.25	5.090e-294
8.65	43.75	5.090e-294
8.65	46.25	5.090e-294
8.65	48.75	5.090e-294
8.65	51.25	5.090e-294
8.65	53.75	5.090e-294
8.65	56.25	5.090e-294
8.65	58.75	5.090e-294
8.65	61.25	5.090e-294
8.65	63.75	5.090e-294
8.65	66.25	5.090e-294
8.65	68.75	5.090e-294
8.65	71.25	5.090e-294
8.65	73.75	5.090e-294
8.65	76.25	5.090e-294
8.65	78.75	5.090e-294
8.65	81.25	5.090e-294
8.65	83.75	5.090e-294
8.65	86.25	5.090e-294
8.65	88.75	5.090e-294
8.65	91.25	5.090e-294
8.65	93.75	5.090e-294
8.65	96.25	5.090e-294
8.65	98.75	5.090e-294
8.65	101.25	5.090e-294
8.75	1.25	5.090e-294
8.75	3.75	5.090e-294
8.75	6.25	5.090e-294
8.75	8.75	5.090e-294
8.75	11.25	5.090e-294
8.75	13.75	5.090e-294
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8.75	18.75	5.090e-294
8.75	21.25	5.090e-294
8.75	23.75	5.090e-294
8.75	26.25	5.090e-294
8.75	28.75	5.090e-294
8.75	31.25	5.090e-294
8.75	33.75	5.090e-294
8.75	36.25	5.090e-294
8.75	38.75	5.090e-294
8.75	41.25	5.090e-294
8.75	43.75	5.090e-294
8.75	46.25	5.090e-294
8.75	48.75	5.090e-294
8.75	51.25	5.090e-294
8.75	53.75	5.090e-294
8.75	56.25	5.090e-294
8.75	58.75	5.090e-294
8.75	61.25	5.090e-294
8.75	63.75	5.090e-294

8.75	66.25	5.090e-294
8.75	68.75	5.090e-294
8.75	71.25	5.090e-294
8.75	73.75	5.090e-294
8.75	76.25	5.090e-294
8.75	78.75	5.090e-294
8.75	81.25	5.090e-294
8.75	83.75	5.090e-294
8.75	86.25	5.090e-294
8.75	88.75	5.090e-294
8.75	91.25	5.090e-294
8.75	93.75	5.090e-294
8.75	96.25	5.090e-294
8.75	98.75	5.090e-294
8.75	101.25	5.090e-294
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8.85	8.75	5.090e-294
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8.85	23.75	5.090e-294
8.85	26.25	5.090e-294
8.85	28.75	5.090e-294
8.85	31.25	5.090e-294
8.85	33.75	5.090e-294
8.85	36.25	5.090e-294
8.85	38.75	5.090e-294
8.85	41.25	5.090e-294
8.85	43.75	5.090e-294
8.85	46.25	5.090e-294
8.85	48.75	5.090e-294
8.85	51.25	5.090e-294
8.85	53.75	5.090e-294
8.85	56.25	5.090e-294
8.85	58.75	5.090e-294
8.85	61.25	5.090e-294
8.85	63.75	5.090e-294
8.85	66.25	5.090e-294
8.85	68.75	5.090e-294
8.85	71.25	5.090e-294
8.85	73.75	5.090e-294
8.85	76.25	5.090e-294
8.85	78.75	5.090e-294
8.85	81.25	5.090e-294
8.85	83.75	5.090e-294
8.85	86.25	5.090e-294
8.85	88.75	5.090e-294
8.85	91.25	5.090e-294
8.85	93.75	5.090e-294
8.85	96.25	5.090e-294
8.85	98.75	5.090e-294
8.85	101.25	5.090e-294
8.95	1.25	5.090e-294
8.95	3.75	5.090e-294
8.95	6.25	5.090e-294
8.95	8.75	5.090e-294
8.95	11.25	5.090e-294
8.95	13.75	5.090e-294
8.95	16.25	5.090e-294
8.95	18.75	5.090e-294
8.95	21.25	5.090e-294
8.95	23.75	5.090e-294
8.95	26.25	5.090e-294
8.95	28.75	5.090e-294
8.95	31.25	5.090e-294
8.95	33.75	5.090e-294
8.95	36.25	5.090e-294
8.95	38.75	5.090e-294
8.95	41.25	5.090e-294
8.95	43.75	5.090e-294
8.95	46.25	5.090e-294
8.95	48.75	5.090e-294
8.95	51.25	5.090e-294
8.95	53.75	5.090e-294
8.95	56.25	5.090e-294
8.95	58.75	5.090e-294
8.95	61.25	5.090e-294
8.95	63.75	5.090e-294
8.95	66.25	5.090e-294
8.95	68.75	5.090e-294
8.95	71.25	5.090e-294
8.95	73.75	5.090e-294
8.95	76.25	5.090e-294
8.95	78.75	5.090e-294
8.95	81.25	5.090e-294
8.95	83.75	5.090e-294

8.95	86.25	5.090e-294
8.95	88.75	5.090e-294
8.95	91.25	5.090e-294
8.95	93.75	5.090e-294
8.95	96.25	5.090e-294
8.95	98.75	5.090e-294
8.95	101.25	5.090e-294

Integral: 1.000e+000

DEAGGREGATION: Summary by Source

Spectral Period: PGA
Amplitude: 0.5
Annual Frequency of Exceedance: 5.478e-004

Source	Region	Magnitude Mode	Magnitude Mean	Distance Mode	Distance Mean	Epsilon Mode	Epsilon Mean	Contribution %
CEUS Gridded Source	USGS 2014 CEUS Gridded Source	5.05	5.68	13.75	28.84	0.70	0.76	0.97
Shallow - Extensional Gridded	USGS 2014 WUS Gridded Source	6.45	6.27	6.25	12.33	1.10	1.27	10.48
Wasatch fault, Weber section [2351e]	USGS 2014 Utah	7.15	7.03	1.25	1.25	-0.10	0.11	69.49
Salt Lake City - Wasatch Fault Source Model	USGS 2014 Utah	6.95	6.92	13.75	15.41	1.10	1.31	17.01
Morgan fault [2353abc]	USGS 2014 Utah	6.55	6.54	11.25	13.36	1.10	0.95	0.78
West Valley fault [2386]	USGS 2014 Utah	6.55	6.56	21.25	20.38	1.90	1.94	0.16
W65G35 West Valley (Wasatch 65) fault (dip 35)	USGS 2014 Utah	6.55	6.56	18.75	19.23	1.90	2.01	0.03
W50G35 West Valley (Wasatch 50) fault (dip 35)	USGS 2014 Utah	6.55	6.56	18.75	19.64	2.10	2.09	0.08
W35G35 West Valley (Wasatch 35) fault (dip 35)	USGS 2014 Utah	6.55	6.56	21.25	20.22	2.10	2.19	0.02
W65G50 West Valley (Wasatch 65) fault (dip 50)	USGS 2014 Utah	6.55	6.56	21.25	20.82	2.10	2.14	0.07
W50G50 West Valley (Wasatch 50) fault (dip 50)	USGS 2014 Utah	6.55	6.56	21.25	20.95	2.10	2.21	0.17
W35G50 West Valley (Wasatch 35) fault (dip 50)	USGS 2014 Utah	6.65	6.57	21.25	21.33	2.10	2.24	0.05
W50G65 West Valley (Wasatch 50) fault (dip 65)	USGS 2014 Utah	6.65	6.57	21.25	22.46	2.10	2.26	0.04
W65G65 West Valley (Wasatch 65) fault (dip 65)	USGS 2014 Utah	6.65	6.56	21.25	22.46	2.10	2.23	0.02
W35G65 West Valley (Wasatch 35) fault (dip 65)	USGS 2014 Utah	6.65	6.57	21.25	22.47	2.10	2.29	0.01
Great Salt Lake fault zone, Antelope Island [2369c]	USGS 2014 Utah	6.95	6.92	31.25	30.50	2.30	2.40	0.18
Great Salt Lake fault zone, Fremont Island s [2369b]	USGS 2014 Utah	6.85	6.89	33.75	34.26	2.50	2.56	0.06
Wasatch fault, Brigham City section [2351d]	USGS 2014 Utah	7.05	7.02	36.25	36.30	2.50	2.51	0.29
Oquirrh-Southern Oquirrh Mountains fault [2398_2399]	USGS 2014 Utah	7.25	7.27	43.75	44.46	2.50	2.59	0.03
East Cache fault zone [2352abc]	USGS 2014 Utah	7.45	7.42	48.75	49.15	2.70	2.58	0.02
Great Salt Lake fault zone, Promontory secti [2369a]	USGS 2014 Utah	7.25	7.29	51.25	51.88	2.90	2.76	0.01
Wasatch fault, Provo section [2351g]	USGS 2014 Utah	7.45	7.44	56.25	55.49	2.70	2.71	0.04
West Cache fault, Wellsville section [2521c]	USGS 2014 Utah	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Stansbury fault zone [2395]	USGS 2014 Utah	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Bear River fault zone [730]	USGS 2014 Wyoming	N/A	N/A	N/A	N/A	N/A	N/A	0.00
West Cache fault zone, Junction Hills fault [2521b]	USGS 2014 Utah	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Hansel Valley fault [2358]	USGS 2014 Utah	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Eastern Bear Lake fault [2364abc]	USGS 2014 Idaho	N/A	N/A	N/A	N/A	N/A	N/A	0.00
North Promontory fault [2361]	USGS 2014 Nevada	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Strawberry fault [2412]	USGS 2014 Utah	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Wasatch fault, Nephi section [2351h]	USGS 2014 Utah	N/A	N/A	N/A	N/A	N/A	N/A	0.00
West Cache fault, Clarkston section [2521a]	USGS 2014 Utah	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Rock Creek fault [729]	USGS 2014 Wyoming	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Wasatch fault, Levan section [2351i]	USGS 2014 Utah	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Joes Valley fault zone [2455]	USGS 2014 Utah	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Grand Valley fault [726c]	USGS 2014 Wyoming	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Greys River fault [728]	USGS 2014 Wyoming	N/A	N/A	N/A	N/A	N/A	N/A	0.00

DEAGGREGATION: Conditional Mean Spectrum by Source

Period							0.01	0.02	0.03	0.05	
0.075	0.1	0.15	0.2	0.25	0.3	0.4	0.5	0.75	1	1.5	2
3	4	5	7.5	10							
CEUS Gridded Source				USGS 2014 CEUS Gridded Source			0.500000	0.631066	0.726902	0.780549	
0.851555	0.914845	0.832170	0.753269	0.621345	0.534061	0.348704	0.251983	0.142268	0.092607	0.044418	
0.025619	0.012051	0.008835	0.006514	0.002603	0.001530						
Shallow - Extensional Gridded				USGS 2014 WUS Gridded Source			0.500000	0.462069	0.468778	0.526078	
0.646957	0.770344	0.981863	1.096881	1.100724	1.072397	0.950487	0.832463	0.563870	0.405469	0.231400	
0.146875	0.070781	0.039774	0.024398	0.008993	0.004822						
Wasatch fault, Weber section [2351e]				USGS 2014 Utah			0.500000	0.500458	0.497601	0.531034	
0.611884	0.697936	0.852272	0.984086	1.073467	1.141142	1.178324	1.143499	0.970779	0.812783	0.581677	
0.437612	0.270299	0.171536	0.116202	0.047621	0.026071						
Salt Lake City - Wasatch Fault Source Model				USGS 2014 Utah			0.500000	0.467049	0.471488	0.524061	
0.632657	0.743909	0.946732	1.076548	1.102146	1.104729	1.032826	0.932662	0.678658	0.513192	0.324811	
0.222138	0.122776	0.074798	0.050275	0.020975	0.012137						
Morgan fault [2353abc]				USGS 2014 Utah			0.500000	0.478662	0.486187	0.544867	
0.654102	0.761084	0.935908	1.068139	1.095431	1.105331	1.035213	0.944033	0.708962	0.522053	0.319879	
0.216786	0.111443	0.063373	0.039621	0.014326	0.007620						
West Valley fault [2386]				USGS 2014 Utah			0.500000	0.450160	0.461533	0.532567	
0.662199	0.786202	0.999021	1.109837	1.090581	1.052075	0.921162	0.800893	0.540311	0.384224	0.221059	
0.141091	0.071129	0.040777	0.025843	0.009763	0.005595						
W65G35 West Valley (Wasatch 65) fault (dip 35)						USGS 2014 Utah	0.500000	0.448510	0.459242	0.528467	
0.656840	0.782783	1.001793	1.113287	1.093208	1.052075	0.920030	0.797218	0.534343	0.379715	0.219245	
0.139842	0.070495	0.040703	0.025807	0.009809	0.005692						
W50G35 West Valley (Wasatch 50) fault (dip 35)						USGS 2014 Utah	0.500000	0.446425	0.458604	0.531354	
0.663848	0.790941	1.006443	1.113881	1.089006	1.044361	0.908572	0.787251	0.527384	0.374166	0.214984	
0.137222	0.069515	0.040375	0.025500	0.009602	0.005560						
W35G35 West Valley (Wasatch 35) fault (dip 35)						USGS 2014 Utah	0.500000	0.443968	0.458142	0.535952	
0.674370	0.802738	1.011970	1.113549	1.082772	1.034205	0.894289	0.775467	0.519885	0.368183	0.210027	
0.134200	0.068403	0.039971	0.025112	0.009325	0.005372						

W65G50 West Valley (Wasatch 65) fault (dip 50) USGS 2014 Utah 0.500000 0.445121 0.459101 0.536617
0.673915 0.800636 1.009312 1.111846 1.082011 1.034439 0.894995 0.776464 0.520875 0.368919 0.210322
0.134282 0.068323 0.039759 0.025031 0.009320 0.005350
W50G50 West Valley (Wasatch 50) fault (dip 50) USGS 2014 Utah 0.500000 0.443368 0.458342 0.538485
0.679140 0.807067 1.013052 1.112060 1.078654 1.028550 0.886727 0.769126 0.515598 0.364704 0.207181
0.132310 0.067542 0.039479 0.024784 0.009167 0.005260
W35G50 West Valley (Wasatch 35) fault (dip 50) USGS 2014 Utah 0.500000 0.442318 0.456936 0.536518
0.676560 0.804900 1.014066 1.112774 1.077606 1.025752 0.882307 0.763088 0.508691 0.358911 0.203774
0.129719 0.066029 0.038615 0.024286 0.009045 0.005232
W50G65 West Valley (Wasatch 50) fault (dip 65) USGS 2014 Utah 0.500000 0.441390 0.457123 0.540260
0.683549 0.810671 1.015362 1.109608 1.070016 1.015328 0.868777 0.751412 0.500178 0.352482 0.198946
0.126547 0.064674 0.037902 0.023847 0.008849 0.005091
W65G65 West Valley (Wasatch 65) fault (dip 65) USGS 2014 Utah 0.500000 0.442316 0.458848 0.543868
0.688930 0.814963 1.014656 1.107725 1.068521 1.014720 0.868701 0.753817 0.504615 0.356648 0.201047
0.128350 0.065964 0.038683 0.024301 0.008936 0.005081
W35G65 West Valley (Wasatch 35) fault (dip 65) USGS 2014 Utah 0.500000 0.440723 0.455748 0.537170
0.678760 0.806675 1.015751 1.111218 1.071424 1.016090 0.869159 0.749746 0.496776 0.349333 0.197467
0.125262 0.063744 0.037348 0.023537 0.008803 0.005114
Great Salt Lake fault zone, Antelope Island [2369c] USGS 2014 Utah 0.500000 0.436604 0.448623 0.522463
0.651739 0.772044 0.992211 1.094199 1.059609 1.006724 0.870071 0.751410 0.497751 0.352325 0.206587
0.132613 0.070599 0.043876 0.028892 0.012123 0.007706
Great Salt Lake fault zone, Fremont Island s [2369b] USGS 2014 Utah 0.500000 0.432199 0.444141 0.518591
0.647799 0.769202 0.997508 1.097206 1.053883 0.993024 0.849967 0.728040 0.473160 0.331107 0.191755
0.121276 0.063411 0.038960 0.025614 0.010836 0.007032
Wasatch fault, Brigham City section [2351d] USGS 2014 Utah 0.500000 0.433324 0.446940 0.525509
0.658471 0.774850 0.982910 1.077088 1.038526 0.983507 0.848218 0.735293 0.488056 0.345342 0.201810
0.130066 0.070131 0.043954 0.029491 0.012577 0.008096
Oquirrh-Southern Oquirrh Mountains fault [2398_2399] USGS 2014 Utah 0.500000 0.430734 0.440241 0.506941
0.624937 0.740368 0.971904 1.083710 1.055845 1.007932 0.886855 0.770611 0.513923 0.365258 0.219409
0.142034 0.077219 0.049458 0.034155 0.016233 0.011578
East Cache fault zone [2352abc] USGS 2014 Utah 0.500000 0.430709 0.439157 0.502411
0.615586 0.728573 0.961295 1.078826 1.058491 1.016827 0.906213 0.792728 0.534698 0.382564 0.232968
0.152234 0.083955 0.054423 0.038001 0.018588 0.013545
Great Salt Lake fault zone, Promontory secti [2369a] USGS 2014 Utah 0.500000 0.426425 0.433039 0.490283
0.596933 0.717835 0.983046 1.114015 1.088625 1.040020 0.921132 0.795805 0.523780 0.368690 0.221150
0.140783 0.074180 0.046984 0.032552 0.016065 0.012075
Wasatch fault, Provo section [2351g] USGS 2014 Utah 0.500000 0.427446 0.433716 0.490129
0.594980 0.712210 0.971130 1.103761 1.085992 1.044499 0.937084 0.816957 0.546217 0.388011 0.235848
0.152085 0.081847 0.052577 0.036796 0.018533 0.014071
West Cache fault, Wellsville section [2521c] USGS 2014 Utah N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Stansbury fault zone [2395] USGS 2014 Utah N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Bear River fault zone [730] USGS 2014 Wyoming N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
West Cache fault zone, Junction Hills fault [2521b] USGS 2014 Utah N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Hansel Valley fault [2358] USGS 2014 Utah N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Eastern Bear Lake fault [2364abc] USGS 2014 Idaho N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
North Promontory fault [2361] USGS 2014 Nevada N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Strawberry fault [2412] USGS 2014 Utah N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Wasatch fault, Nephi section [2351h] USGS 2014 Utah N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
West Cache fault, Clarkston section [2521a] USGS 2014 Utah N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Rock Creek fault [729] USGS 2014 Wyoming N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Wasatch fault, Levan section [2351i] USGS 2014 Utah N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Joes Valley fault zone [2455] USGS 2014 Utah N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Grand Valley fault [726c] USGS 2014 Wyoming N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Greys River fault [728] USGS 2014 Wyoming N/A N/A N/A N/A
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
N/A N/A N/A N/A N/A
Conditional Mean Spectrum (all sources) 0.500000 0.491078 0.491700 0.531814
0.622358 0.717013 0.884213 1.011513 1.076911 1.120009 1.116774 1.060024 0.862518 0.704151 0.489295
0.360920 0.218010 0.137210 0.092580 0.037882 0.020850

Deterministic Spectra Results using EZ-FRISK 8.07 Build 044

Largest Amplitudes of Ground Motions Considering All Sources Calculated using Weighted Mean of Attenuation Equations
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	2.543e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	3.767e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	4.759e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	4.451e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	4.977e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	5.420e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	5.107e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	4.913e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	4.448e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	4.119e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	3.299e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	2.781e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	2.297e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	1.946e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	1.427e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	1.149e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
3	8.724e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
4	6.550e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	5.317e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	2.363e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	1.329e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.657e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	2.465e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	3.100e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	2.901e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	3.230e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	3.507e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	3.305e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	3.180e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	2.881e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	2.670e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	2.134e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	1.796e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	1.474e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	1.240e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	9.081e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	7.368e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
3	5.575e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
4	4.167e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	3.389e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	1.506e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	8.471e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Largest Amplitudes of Ground Motions Considering Sources Calculated with Frankel (1996) USGS 2008 Truncated Mw
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	7.136e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	8.109e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	8.739e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	9.602e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	1.035e+001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	1.091e+001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	1.176e+001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	1.240e+001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	1.079e+001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	9.626e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	7.721e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	6.508e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	5.842e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	5.412e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	3.711e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	2.840e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	1.922e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	1.457e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	1.165e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	5.179e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	2.913e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	4.483e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	5.095e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	5.491e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

0.05	6.033e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	6.502e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	6.856e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	7.389e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	7.791e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	6.777e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	6.048e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	4.851e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	4.089e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	3.647e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	3.364e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	2.307e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	1.766e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	1.195e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	9.055e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	7.244e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	3.220e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	1.811e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Largest Amplitudes of Ground Motions Considering Sources Calculated with Toro (1999) Midcontinent - USGS 2008 Mw
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	3.087e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	3.803e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	4.297e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	5.011e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	5.661e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	6.174e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	6.174e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	6.174e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	6.174e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	6.174e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	4.965e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	4.194e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	3.924e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	3.743e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	2.702e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	2.144e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	1.429e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	1.072e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	8.575e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	3.811e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	2.144e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.939e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	2.389e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	2.700e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	3.148e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	3.557e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	3.879e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	3.879e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	3.879e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	3.879e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	3.879e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	3.120e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	2.635e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	2.449e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	2.327e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	1.679e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	1.333e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	8.885e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	6.664e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	5.331e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	2.369e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	1.333e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Largest Amplitudes of Ground Motions Considering Sources Calculated with Silva et al (2002) USGS 2008 Mw
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	5.925e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	7.651e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	8.886e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	1.073e+001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	1.246e+001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	1.386e+001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	1.163e+001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	1.027e+001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	8.650e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	7.521e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

0.4	6.155e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	5.270e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	4.716e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	4.359e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	3.835e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	3.502e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	2.698e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	2.243e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	1.943e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	8.638e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	4.859e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	3.653e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	4.716e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	5.476e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	6.610e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	7.675e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	8.533e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	7.173e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	6.342e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	5.340e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	4.640e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	3.796e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	3.248e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	2.900e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	2.676e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	2.340e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	2.136e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	1.656e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	1.390e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	1.217e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	5.410e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	3.043e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Largest Amplitudes of Ground Motions Considering Sources Calculated with Campbell (2003) USGS 2008 Mw

Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	2.338e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	4.675e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	4.675e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	4.799e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	4.649e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	4.624e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	4.493e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	4.323e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	3.981e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	3.721e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	3.146e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	2.761e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	2.788e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	2.280e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	1.535e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	1.137e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	6.759e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	4.394e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	3.515e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	1.562e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	8.789e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.635e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	3.270e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	3.270e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	3.312e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	3.261e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	3.253e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	3.146e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	3.012e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	2.771e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	2.588e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	2.172e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	1.895e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	1.896e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	1.539e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	1.035e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	7.654e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	4.527e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	2.927e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	2.341e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	1.041e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	5.853e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Largest Amplitudes of Ground Motions Considering Sources Calculated with Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	2.437e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	3.328e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	3.993e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	5.023e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	4.761e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	5.074e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	4.856e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	4.785e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	4.811e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	5.119e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	3.770e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	3.110e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	2.137e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	1.467e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	1.327e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	8.601e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	3.850e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	1.053e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	8.428e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	3.746e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	2.107e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.689e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	2.292e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	2.740e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	3.432e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	3.342e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	3.450e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	3.374e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	3.350e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	3.359e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	3.444e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	2.607e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	2.138e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	1.457e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	9.936e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	8.931e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	5.760e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	2.567e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	6.976e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	5.581e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	2.480e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	1.395e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Largest Amplitudes of Ground Motions Considering Sources Calculated with Atkinson-Boore (2006p) USGS 2014 Table Soil
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.854e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	4.074e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	5.783e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	3.674e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	4.114e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	4.458e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	3.767e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	3.351e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	2.788e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	2.400e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	1.912e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	1.604e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	1.019e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	7.433e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	4.615e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	3.267e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	2.105e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	1.574e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	1.256e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	5.584e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	3.141e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.184e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	2.602e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	3.693e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

0.05	2.347e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	2.628e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	2.847e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	2.406e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	2.140e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	1.781e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	1.533e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	1.221e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	1.024e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	6.507e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	4.747e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	2.947e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	2.087e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	1.344e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	1.005e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	8.025e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	3.567e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	2.006e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Largest Amplitudes of Ground Motions Considering Sources Calculated with Pezeshk et al (2011) USGS 2014 Table Soil
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.467e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	1.593e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	2.363e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	1.756e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	2.514e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	3.288e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	3.355e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	3.404e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	3.091e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	2.857e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	2.358e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	2.049e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	1.401e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	1.070e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	6.538e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	4.576e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	2.975e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	2.042e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	1.526e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	6.781e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	3.814e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	9.307e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	1.011e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	1.500e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	1.114e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	1.599e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	2.092e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	2.134e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	2.165e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	1.966e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	1.818e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	1.504e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	1.306e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	8.935e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	6.824e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	4.169e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	2.918e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	1.897e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	1.302e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	9.729e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	4.324e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	2.432e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Largest Amplitudes of Ground Motions Considering Sources Calculated with Atkinson (2008p) USGS 2014 Table Soil
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.820e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	2.378e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	5.303e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	3.549e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	4.105e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	4.551e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	3.983e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	3.624e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	2.827e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	2.452e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

0.4	1.656e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	1.298e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	8.250e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	6.356e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	4.895e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	4.066e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	4.399e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	3.445e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	2.826e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	1.256e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	7.065e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.163e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.02	1.519e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.03	3.387e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.05	2.267e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.075	2.622e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.1	2.907e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.15	2.544e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.2	2.314e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.25	1.806e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.3	1.566e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.4	1.058e+000	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.5	8.288e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
0.75	5.269e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1	4.059e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
1.5	3.126e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
2	2.597e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
3	2.809e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
4	2.200e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
5	1.805e-001	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
7.5	8.021e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source
10	4.512e-002	8.00 Mw	5.00	USGS 2014 CEUS Gridded Source	CEUS Gridded Source

Largest Amplitudes of Ground Motions Considering Sources Calculated with Abrahamson-et al (2014) NGA West 2 USGS 2014
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	9.169e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.02	9.025e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.03	8.330e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.05	8.345e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.075	9.517e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.1	1.115e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.15	1.490e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.2	1.742e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.25	1.920e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.3	2.117e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.4	2.384e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.5	2.242e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.75	1.773e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
1	1.514e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
1.5	1.200e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
2	1.027e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
3	7.629e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
4	5.502e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
5	4.364e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
7.5	2.226e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
10	1.380e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	6.395e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.02	6.309e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.03	5.862e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.05	5.888e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.075	6.708e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.1	7.873e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.15	1.061e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.2	1.244e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.25	1.367e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.3	1.496e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.4	1.654e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.5	1.543e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.75	1.206e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
1	1.015e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
1.5	7.867e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
2	6.614e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
3	4.890e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
4	3.537e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
5	2.803e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
7.5	1.427e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
10	8.821e-002	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model

Largest Amplitudes of Ground Motions Considering Sources Calculated with Boore-et al (2014) NGA West 2 USGS 2014
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	9.610e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.02	9.481e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.03	9.519e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.05	1.052e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.075	1.286e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.1	1.451e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.15	1.678e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.2	1.815e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.25	1.874e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.3	1.968e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.4	2.017e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.5	2.123e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.75	1.881e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
1	1.759e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
1.5	1.471e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
2	1.311e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
3	1.006e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
4	7.950e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
5	6.366e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
7.5	3.443e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
10	2.101e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	6.469e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.02	6.361e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.03	6.336e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.05	6.850e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.075	8.246e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.1	9.318e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.15	1.100e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.2	1.216e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.25	1.265e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.3	1.333e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.4	1.361e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.5	1.415e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
0.75	1.232e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
1	1.144e+000	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
1.5	9.553e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
2	8.483e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
3	6.469e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
4	5.091e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
5	4.075e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
7.5	2.218e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
10	1.369e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded

Largest Amplitudes of Ground Motions Considering Sources Calculated with Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	7.017e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.02	7.360e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.03	7.675e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.05	8.636e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.075	9.781e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.1	1.098e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.15	1.111e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.2	1.243e+000	6.52 Mw	11.40	USGS 2014 Utah	Morgan fault [2353abc]
0.25	1.338e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.3	1.546e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.4	1.818e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.5	1.941e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.75	2.147e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
1	1.883e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
1.5	1.580e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
2	1.432e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
3	1.056e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
4	6.772e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
5	4.816e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
7.5	2.104e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source	Shallow - Extensional Gridded
10	1.180e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	5.049e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.02	5.293e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.03	5.508e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model

0.05	6.142e-001	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
0.075	6.838e-001	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
0.1	7.651e-001	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
0.15	7.859e-001	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
0.2	8.781e-001	6.52 Mw	11.40	USGS 2014 Utah		Morgan fault [2353abc]
0.25	9.499e-001	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
0.3	1.080e+000	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
0.4	1.241e+000	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
0.5	1.300e+000	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
0.75	1.392e+000	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
1	1.208e+000	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
1.5	1.006e+000	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
2	9.107e-001	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
3	6.702e-001	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
4	4.335e-001	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model
5	3.073e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source		Shallow - Extensional Gridded
7.5	1.340e-001	8.00 Mw	5.00	USGS 2014 WUS Gridded Source		Shallow - Extensional Gridded
10	7.524e-002	7.40 Mw	0.76	USGS 2014 Utah		Salt Lake City - Wasatch Fault Source Model

Largest Amplitudes of Ground Motions Considering Sources Calculated with Chiou-Youngs (2014) NGA West 2 USGS 2014
Amplitude Units: Acceleration (g)

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	9.759e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.02	9.847e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.03	9.831e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.05	1.015e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.075	1.134e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.1	1.268e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.15	1.488e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.2	1.759e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.25	2.012e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.3	2.200e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.4	2.417e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.5	2.545e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.75	2.432e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
1	2.159e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
1.5	1.573e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
2	1.348e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
3	9.392e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
4	6.156e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
5	4.046e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
7.5	1.727e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
10	9.288e-002	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model

Fractile: Mean

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	6.880e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.02	6.934e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.03	6.899e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.05	7.148e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.075	8.071e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.1	9.074e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.15	1.065e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.2	1.252e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.25	1.420e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.3	1.541e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.4	1.671e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.5	1.738e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
0.75	1.622e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
1	1.419e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
1.5	1.017e+000	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
2	8.650e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
3	6.008e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
4	3.937e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
5	2.589e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
7.5	1.108e-001	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model
10	5.964e-002	7.40 Mw	0.76	USGS 2014 Utah	Salt Lake City - Wasatch Fault Source Model

Largest Amplitudes of Ground Motions for Each Source

Source: CEUS Gridded Source
Region: USGS 2014 CEUS Gridded Source
Closest Distance: 5.00 km
Amplitude Units: Acceleration (g)
Magnitude: 8.00 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Frankel (1996) USGS 2008 Truncated Mw
Column 4: Acceleration (g) for: Toro (1999) Midcontinent - USGS 2008 Mw
Column 5: Acceleration (g) for: Silva et al (2002) USGS 2008 Mw
Column 6: Acceleration (g) for: Campbell (2003) USGS 2008 Mw
Column 7: Acceleration (g) for: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw

Column 8: Acceleration (g) for: Atkinson-Boore (2006p) USGS 2014 Table Soil
Column 9: Acceleration (g) for: Pezeshk et al (2011) USGS 2014 Table Soil
Column 10: Acceleration (g) for: Atkinson (2008p) USGS 2014 Table Soil

1	2	3	4	5	6	7	8	9	10
PGA	2.543e+000	7.136e+000	3.087e+000	5.925e+000	2.338e+000	2.437e+000	1.854e+000	1.467e+000	1.820e+000
0.02	3.767e+000	8.109e+000	3.803e+000	7.651e+000	4.675e+000	3.328e+000	4.074e+000	1.593e+000	2.378e+000
0.03	4.759e+000	8.739e+000	4.297e+000	8.886e+000	4.675e+000	3.993e+000	5.783e+000	2.363e+000	5.303e+000
0.05	4.451e+000	9.602e+000	5.011e+000	1.073e+001	4.799e+000	5.023e+000	3.674e+000	1.756e+000	3.549e+000
0.075	4.977e+000	1.035e+001	5.661e+000	1.246e+001	4.649e+000	4.761e+000	4.114e+000	2.514e+000	4.105e+000
0.1	5.420e+000	1.091e+001	6.174e+000	1.386e+001	4.624e+000	5.074e+000	4.458e+000	3.288e+000	4.551e+000
0.15	5.107e+000	1.176e+001	6.174e+000	1.163e+001	4.493e+000	4.856e+000	3.767e+000	3.355e+000	3.983e+000
0.2	4.913e+000	1.240e+001	6.174e+000	1.027e+001	4.323e+000	4.785e+000	3.351e+000	3.404e+000	3.624e+000
0.25	4.448e+000	1.079e+001	6.174e+000	8.650e+000	3.981e+000	4.811e+000	2.788e+000	3.091e+000	2.827e+000
0.3	4.119e+000	9.626e+000	6.174e+000	7.521e+000	3.721e+000	5.119e+000	2.400e+000	2.857e+000	2.452e+000
0.4	3.299e+000	7.721e+000	4.965e+000	6.155e+000	3.146e+000	3.770e+000	1.912e+000	2.358e+000	1.656e+000
0.5	2.781e+000	6.508e+000	4.194e+000	5.270e+000	2.761e+000	3.110e+000	1.604e+000	2.049e+000	1.298e+000
0.75	2.297e+000	5.842e+000	3.924e+000	4.716e+000	2.788e+000	2.137e+000	1.019e+000	1.401e+000	8.250e-001
1	1.946e+000	5.412e+000	3.743e+000	4.359e+000	2.280e+000	1.467e+000	7.433e-001	1.070e+000	6.356e-001
1.5	1.427e+000	3.711e+000	2.702e+000	3.835e+000	1.535e+000	1.327e+000	4.615e-001	6.538e-001	4.895e-001
2	1.104e+000	2.840e+000	2.144e+000	3.502e+000	1.137e+000	8.601e-001	3.267e-001	4.576e-001	4.066e-001
3	7.363e-001	1.922e+000	1.429e+000	2.698e+000	6.759e-001	3.850e-001	2.105e-001	2.975e-001	4.399e-001
4	6.550e-001	1.457e+000	1.072e+000	2.243e+000	4.394e-001	1.053e+000	1.574e-001	2.042e-001	3.445e-001
5	5.317e-001	1.165e+000	8.575e-001	1.943e+000	3.515e-001	8.428e-001	1.256e-001	1.526e-001	2.826e-001
7.5	2.363e-001	5.179e-001	3.811e-001	8.638e-001	1.562e-001	3.746e-001	5.584e-002	6.781e-002	1.256e-001
10	1.329e-001	2.913e-001	2.144e-001	4.859e-001	8.789e-002	2.107e-001	3.141e-002	3.814e-002	7.065e-002

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Frankel (1996) USGS 2008 Truncated Mw
Column 4: Acceleration (g) for: Toro (1999) Midcontinent - USGS 2008 Mw
Column 5: Acceleration (g) for: Silva et al (2002) USGS 2008 Mw
Column 6: Acceleration (g) for: Campbell (2003) USGS 2008 Mw
Column 7: Acceleration (g) for: Tavakoli-Pezeshk (2005) ENA USGS 2008 Mw
Column 8: Acceleration (g) for: Atkinson-Boore (2006p) USGS 2014 Table Soil
Column 9: Acceleration (g) for: Pezeshk et al (2011) USGS 2014 Table Soil
Column 10: Acceleration (g) for: Atkinson (2008p) USGS 2014 Table Soil

1	2	3	4	5	6	7	8	9	10
PGA	1.657e+000	4.483e+000	1.939e+000	3.653e+000	1.635e+000	1.689e+000	1.184e+000	9.307e-001	1.163e+000
0.02	2.465e+000	5.095e+000	2.389e+000	4.716e+000	3.270e+000	2.292e+000	2.602e+000	1.011e+000	1.519e+000
0.03	3.100e+000	5.491e+000	2.700e+000	5.476e+000	3.270e+000	2.740e+000	3.693e+000	1.500e+000	3.387e+000
0.05	2.901e+000	6.033e+000	3.148e+000	6.610e+000	3.312e+000	3.432e+000	2.347e+000	1.114e+000	2.267e+000
0.075	3.230e+000	6.502e+000	3.557e+000	7.675e+000	3.261e+000	3.342e+000	2.628e+000	1.599e+000	2.622e+000
0.1	3.507e+000	6.856e+000	3.879e+000	8.533e+000	3.253e+000	3.450e+000	2.847e+000	2.092e+000	2.907e+000
0.15	3.305e+000	7.389e+000	3.879e+000	7.173e+000	3.146e+000	3.374e+000	2.406e+000	2.134e+000	2.544e+000
0.2	3.180e+000	7.791e+000	3.879e+000	6.342e+000	3.012e+000	3.350e+000	2.140e+000	2.165e+000	2.314e+000
0.25	2.881e+000	6.777e+000	3.879e+000	5.340e+000	2.771e+000	3.359e+000	1.781e+000	1.966e+000	1.806e+000
0.3	2.670e+000	6.048e+000	3.879e+000	4.640e+000	2.588e+000	3.444e+000	1.533e+000	1.818e+000	1.566e+000
0.4	2.134e+000	4.851e+000	3.120e+000	3.796e+000	2.172e+000	2.607e+000	1.221e+000	1.504e+000	1.058e+000
0.5	1.796e+000	4.089e+000	2.635e+000	3.248e+000	1.895e+000	2.138e+000	1.024e+000	1.306e+000	8.288e-001
0.75	1.474e+000	3.647e+000	2.449e+000	2.900e+000	1.896e+000	1.457e+000	6.507e-001	8.935e-001	5.269e-001

1	1.240e+000	3.364e+000	2.327e+000	2.676e+000	1.539e+000	9.936e-001	4.747e-001	6.824e-001
4.059e-001								
1.5	9.081e-001	2.307e+000	1.679e+000	2.340e+000	1.035e+000	8.931e-001	2.947e-001	4.169e-001
3.126e-001								
2	6.997e-001	1.766e+000	1.333e+000	2.136e+000	7.654e-001	5.760e-001	2.087e-001	2.918e-001
2.597e-001								
3	4.652e-001	1.195e+000	8.885e-001	1.656e+000	4.527e-001	2.567e-001	1.344e-001	1.897e-001
2.809e-001								
4	4.167e-001	9.055e-001	6.664e-001	1.390e+000	2.927e-001	6.976e-001	1.005e-001	1.302e-001
2.200e-001								
5	3.389e-001	7.244e-001	5.331e-001	1.217e+000	2.341e-001	5.581e-001	8.025e-002	9.729e-002
1.805e-001								
7.5	1.506e-001	3.220e-001	2.369e-001	5.410e-001	1.041e-001	2.480e-001	3.567e-002	4.324e-002
8.021e-002								
10	8.471e-002	1.811e-001	1.333e-001	3.043e-001	5.853e-002	1.395e-001	2.006e-002	2.432e-002
4.512e-002								

Source: Shallow - Extensional Gridded
Region: USGS 2014 WUS Gridded Source
  Closest Distance: 5.00 km
  Amplitude Units: Acceleration (g)
  Magnitude: 8.00 Mw
  Fractile: 0.84
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	8.187e-001	8.397e-001	9.610e-001	5.555e-001	9.185e-001
0.02	8.182e-001	8.285e-001	9.481e-001	5.727e-001	9.233e-001
0.03	8.076e-001	7.707e-001	9.519e-001	5.906e-001	9.171e-001
0.05	8.593e-001	7.747e-001	1.052e+000	6.681e-001	9.421e-001
0.075	1.003e+000	8.814e-001	1.286e+000	7.894e-001	1.056e+000
0.1	1.137e+000	1.035e+000	1.451e+000	8.731e-001	1.189e+000
0.15	1.356e+000	1.402e+000	1.678e+000	9.386e-001	1.411e+000
0.2	1.530e+000	1.652e+000	1.815e+000	9.796e-001	1.676e+000
0.25	1.679e+000	1.822e+000	1.874e+000	1.100e+000	1.921e+000
0.3	1.814e+000	1.987e+000	1.968e+000	1.211e+000	2.091e+000
0.4	1.989e+000	2.199e+000	2.017e+000	1.445e+000	2.295e+000
0.5	2.036e+000	2.063e+000	2.123e+000	1.538e+000	2.421e+000
0.75	1.831e+000	1.633e+000	1.881e+000	1.464e+000	2.348e+000
1	1.667e+000	1.389e+000	1.759e+000	1.426e+000	2.095e+000
1.5	1.353e+000	1.112e+000	1.471e+000	1.285e+000	1.544e+000
2	1.135e+000	8.799e-001	1.311e+000	1.133e+000	1.217e+000
3	7.995e-001	6.013e-001	1.006e+000	8.747e-001	7.154e-001
4	5.812e-001	4.473e-001	7.950e-001	6.360e-001	4.465e-001
5	4.387e-001	3.453e-001	6.366e-001	4.816e-001	2.913e-001
7.5	2.202e-001	1.971e-001	3.443e-001	2.104e-001	1.289e-001
10	1.270e-001	1.225e-001	2.101e-001	1.045e-001	7.102e-002

  Fractile: Mean
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	5.684e-001	5.833e-001	6.469e-001	3.964e-001	6.470e-001
0.02	5.678e-001	5.769e-001	6.361e-001	4.084e-001	6.496e-001
0.03	5.594e-001	5.405e-001	6.336e-001	4.203e-001	6.430e-001
0.05	5.913e-001	5.454e-001	6.850e-001	4.719e-001	6.629e-001
0.075	6.860e-001	6.208e-001	8.246e-001	5.487e-001	7.500e-001
0.1	7.789e-001	7.304e-001	9.318e-001	6.048e-001	8.495e-001
0.15	9.400e-001	9.982e-001	1.100e+000	6.588e-001	1.009e+000
0.2	1.068e+000	1.178e+000	1.216e+000	6.904e-001	1.190e+000
0.25	1.172e+000	1.295e+000	1.265e+000	7.745e-001	1.354e+000
0.3	1.259e+000	1.400e+000	1.333e+000	8.393e-001	1.463e+000
0.4	1.361e+000	1.519e+000	1.361e+000	9.801e-001	1.584e+000
0.5	1.377e+000	1.414e+000	1.415e+000	1.025e+000	1.652e+000
0.75	1.213e+000	1.106e+000	1.232e+000	9.465e-001	1.565e+000
1	1.091e+000	9.278e-001	1.144e+000	9.134e-001	1.377e+000
1.5	8.748e-001	7.281e-001	9.553e-001	8.171e-001	9.984e-001
2	7.290e-001	5.664e-001	8.483e-001	7.203e-001	7.812e-001
3	5.113e-001	3.854e-001	6.469e-001	5.551e-001	4.576e-001
4	3.723e-001	2.876e-001	5.091e-001	4.072e-001	2.855e-001
5	2.808e-001	2.218e-001	4.075e-001	3.073e-001	1.864e-001
7.5	1.412e-001	1.264e-001	2.218e-001	1.340e-001	8.267e-002
10	8.184e-002	7.830e-002	1.369e-001	6.658e-002	4.560e-002

Source: Wasatch fault, Weber section [2351e]
Region: USGS 2014 Utah

Closest Distance: 0.73 km
Amplitude Units: Acceleration (g)
Magnitude: 7.16 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	7.945e-001	8.754e-001	7.515e-001	6.541e-001	8.970e-001
0.02	8.026e-001	8.629e-001	7.541e-001	6.888e-001	9.045e-001
0.03	8.009e-001	7.999e-001	7.805e-001	7.188e-001	9.044e-001
0.05	8.636e-001	8.030e-001	9.065e-001	8.065e-001	9.385e-001
0.075	9.969e-001	9.155e-001	1.099e+000	9.144e-001	1.059e+000
0.1	1.124e+000	1.074e+000	1.202e+000	1.027e+000	1.192e+000
0.15	1.325e+000	1.442e+000	1.396e+000	1.052e+000	1.409e+000
0.2	1.514e+000	1.687e+000	1.563e+000	1.131e+000	1.673e+000
0.25	1.658e+000	1.851e+000	1.606e+000	1.261e+000	1.913e+000
0.3	1.799e+000	2.026e+000	1.641e+000	1.448e+000	2.082e+000
0.4	1.941e+000	2.247e+000	1.572e+000	1.670e+000	2.275e+000
0.5	1.952e+000	2.101e+000	1.562e+000	1.752e+000	2.395e+000
0.75	1.780e+000	1.641e+000	1.299e+000	1.876e+000	2.305e+000
1	1.551e+000	1.388e+000	1.140e+000	1.621e+000	2.054e+000
1.5	1.180e+000	1.090e+000	8.239e-001	1.315e+000	1.490e+000
2	1.031e+000	9.336e-001	7.428e-001	1.179e+000	1.267e+000
3	7.657e-001	6.857e-001	6.057e-001	9.024e-001	8.689e-001
4	5.135e-001	4.899e-001	4.426e-001	5.634e-001	5.580e-001
5	3.611e-001	3.839e-001	3.148e-001	3.866e-001	3.591e-001
7.5	1.548e-001	1.915e-001	1.202e-001	1.600e-001	1.474e-001
10	8.779e-002	1.134e-001	6.234e-002	9.850e-002	7.689e-002

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	5.541e-001	6.093e-001	5.059e-001	4.697e-001	6.317e-001
0.02	5.596e-001	6.020e-001	5.060e-001	4.943e-001	6.362e-001
0.03	5.576e-001	5.619e-001	5.195e-001	5.149e-001	6.340e-001
0.05	5.973e-001	5.660e-001	5.901e-001	5.727e-001	6.604e-001
0.075	6.852e-001	6.452e-001	7.047e-001	6.385e-001	7.522e-001
0.1	7.742e-001	7.586e-001	7.718e-001	7.151e-001	8.513e-001
0.15	9.229e-001	1.027e+000	9.146e-001	7.433e-001	1.007e+000
0.2	1.060e+000	1.204e+000	1.047e+000	8.029e-001	1.188e+000
0.25	1.161e+000	1.317e+000	1.084e+000	8.938e-001	1.349e+000
0.3	1.252e+000	1.429e+000	1.112e+000	1.010e+000	1.457e+000
0.4	1.331e+000	1.554e+000	1.061e+000	1.138e+000	1.570e+000
0.5	1.322e+000	1.441e+000	1.041e+000	1.172e+000	1.634e+000
0.75	1.179e+000	1.112e+000	8.511e-001	1.216e+000	1.536e+000
1	1.014e+000	9.267e-001	7.415e-001	1.039e+000	1.350e+000
1.5	7.621e-001	7.135e-001	5.352e-001	8.363e-001	9.636e-001
2	6.611e-001	6.008e-001	4.806e-001	7.498e-001	8.133e-001
3	4.893e-001	4.395e-001	3.893e-001	5.727e-001	5.558e-001
4	3.290e-001	3.150e-001	2.834e-001	3.606e-001	3.569e-001
5	2.312e-001	2.466e-001	2.015e-001	2.467e-001	2.298e-001
7.5	9.918e-002	1.228e-001	7.746e-002	1.019e-001	9.455e-002
10	5.633e-002	7.254e-002	4.062e-002	6.278e-002	4.938e-002

Source: Salt Lake City - Wasatch Fault Source Model
Region: USGS 2014 Utah
Closest Distance: 0.76 km
Amplitude Units: Acceleration (g)
Magnitude: 7.40 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	8.406e-001	9.169e-001	7.678e-001	7.017e-001	9.759e-001
0.02	8.483e-001	9.025e-001	7.698e-001	7.360e-001	9.847e-001
0.03	8.448e-001	8.330e-001	7.957e-001	7.675e-001	9.831e-001
0.05	9.074e-001	8.345e-001	9.169e-001	8.636e-001	1.015e+000
0.075	1.042e+000	9.517e-001	1.103e+000	9.781e-001	1.134e+000
0.1	1.171e+000	1.115e+000	1.202e+000	1.098e+000	1.268e+000
0.15	1.371e+000	1.490e+000	1.395e+000	1.111e+000	1.488e+000
0.2	1.569e+000	1.742e+000	1.568e+000	1.208e+000	1.759e+000
0.25	1.723e+000	1.920e+000	1.622e+000	1.338e+000	2.012e+000

0.3	1.883e+000	2.117e+000	1.670e+000	1.546e+000	2.200e+000
0.4	2.061e+000	2.384e+000	1.625e+000	1.818e+000	2.417e+000
0.5	2.091e+000	2.242e+000	1.635e+000	1.941e+000	2.545e+000
0.75	1.934e+000	1.773e+000	1.384e+000	2.147e+000	2.432e+000
1	1.698e+000	1.514e+000	1.234e+000	1.883e+000	2.159e+000
1.5	1.313e+000	1.200e+000	9.290e-001	1.580e+000	1.573e+000
2	1.149e+000	1.027e+000	8.631e-001	1.432e+000	1.348e+000
3	8.724e-001	7.629e-001	7.368e-001	1.056e+000	9.392e-001
4	6.003e-001	5.502e-001	5.583e-001	6.772e-001	6.156e-001
5	4.304e-001	4.364e-001	4.086e-001	4.722e-001	4.046e-001
7.5	1.896e-001	2.226e-001	1.641e-001	1.991e-001	1.727e-001
10	1.091e-001	1.380e-001	8.748e-002	1.180e-001	9.288e-002

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	5.873e-001	6.395e-001	5.168e-001	5.049e-001	6.880e-001
0.02	5.925e-001	6.309e-001	5.165e-001	5.293e-001	6.934e-001
0.03	5.892e-001	5.862e-001	5.296e-001	5.508e-001	6.899e-001
0.05	6.286e-001	5.888e-001	5.968e-001	6.142e-001	7.148e-001
0.075	7.173e-001	6.708e-001	7.074e-001	6.838e-001	8.071e-001
0.1	8.079e-001	7.873e-001	7.718e-001	7.651e-001	9.074e-001
0.15	9.565e-001	1.061e+000	9.139e-001	7.859e-001	1.065e+000
0.2	1.101e+000	1.244e+000	1.051e+000	8.587e-001	1.252e+000
0.25	1.208e+000	1.367e+000	1.095e+000	9.499e-001	1.420e+000
0.3	1.312e+000	1.496e+000	1.132e+000	1.080e+000	1.541e+000
0.4	1.415e+000	1.654e+000	1.097e+000	1.241e+000	1.671e+000
0.5	1.418e+000	1.543e+000	1.090e+000	1.300e+000	1.738e+000
0.75	1.282e+000	1.206e+000	9.068e-001	1.392e+000	1.622e+000
1	1.111e+000	1.015e+000	8.028e-001	1.208e+000	1.419e+000
1.5	8.484e-001	7.867e-001	6.034e-001	1.006e+000	1.017e+000
2	7.368e-001	6.614e-001	5.584e-001	9.107e-001	8.650e-001
3	5.575e-001	4.890e-001	4.736e-001	6.702e-001	6.008e-001
4	3.846e-001	3.537e-001	3.575e-001	4.335e-001	3.937e-001
5	2.755e-001	2.803e-001	2.616e-001	3.013e-001	2.589e-001
7.5	1.215e-001	1.427e-001	1.057e-001	1.268e-001	1.108e-001
10	7.003e-002	8.821e-002	5.701e-002	7.524e-002	5.964e-002

Source: Morgan fault [2353abc]
Region: USGS 2014 Utah
Closest Distance: 11.40 km
Amplitude Units: Acceleration (g)
Magnitude: 6.52 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.307e-001	6.787e-001	7.098e-001	5.801e-001	5.957e-001
0.02	6.360e-001	6.736e-001	7.137e-001	5.934e-001	6.034e-001
0.03	6.438e-001	6.383e-001	7.413e-001	6.108e-001	6.192e-001
0.05	7.208e-001	6.500e-001	8.793e-001	7.063e-001	6.795e-001
0.075	8.589e-001	7.404e-001	1.088e+000	8.341e-001	8.080e-001
0.1	9.951e-001	8.750e-001	1.201e+000	1.018e+000	9.253e-001
0.15	1.179e+000	1.203e+000	1.398e+000	1.072e+000	1.091e+000
0.2	1.351e+000	1.411e+000	1.548e+000	1.243e+000	1.256e+000
0.25	1.428e+000	1.523e+000	1.563e+000	1.307e+000	1.383e+000
0.3	1.500e+000	1.605e+000	1.564e+000	1.465e+000	1.435e+000
0.4	1.507e+000	1.634e+000	1.439e+000	1.596e+000	1.437e+000
0.5	1.439e+000	1.458e+000	1.382e+000	1.589e+000	1.392e+000
0.75	1.211e+000	1.026e+000	1.098e+000	1.632e+000	1.123e+000
1	9.102e-001	7.861e-001	9.228e-001	1.058e+000	8.945e-001
1.5	5.988e-001	5.201e-001	5.990e-001	7.291e-001	5.553e-001
2	4.458e-001	3.566e-001	4.709e-001	5.751e-001	3.929e-001
3	2.436e-001	1.804e-001	3.076e-001	3.039e-001	1.872e-001
4	1.373e-001	9.523e-002	1.924e-001	1.668e-001	9.600e-002
5	8.552e-002	6.629e-002	1.222e-001	9.943e-002	5.442e-002
7.5	3.201e-002	3.118e-002	3.985e-002	3.880e-002	1.905e-002
10	1.674e-002	1.815e-002	1.874e-002	2.194e-002	8.841e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	4.361e-001	4.647e-001	4.778e-001	4.147e-001	4.170e-001
0.02	4.395e-001	4.623e-001	4.789e-001	4.240e-001	4.218e-001
0.03	4.442e-001	4.416e-001	4.934e-001	4.356e-001	4.315e-001
0.05	4.942e-001	4.527e-001	5.724e-001	4.998e-001	4.752e-001
0.075	5.851e-001	5.176e-001	6.976e-001	5.806e-001	5.700e-001
0.1	6.795e-001	6.138e-001	7.713e-001	7.059e-001	6.553e-001
0.15	8.141e-001	8.495e-001	9.160e-001	7.545e-001	7.716e-001
0.2	9.378e-001	9.964e-001	1.037e+000	8.781e-001	8.816e-001
0.25	9.899e-001	1.069e+000	1.055e+000	9.220e-001	9.633e-001
0.3	1.032e+000	1.113e+000	1.060e+000	1.017e+000	9.916e-001
0.4	1.022e+000	1.108e+000	9.713e-001	1.084e+000	9.794e-001
0.5	9.637e-001	9.795e-001	9.217e-001	1.060e+000	9.385e-001
0.75	7.932e-001	6.794e-001	7.191e-001	1.056e+000	7.422e-001
1	5.906e-001	5.137e-001	6.003e-001	6.776e-001	5.842e-001
1.5	3.851e-001	3.352e-001	3.891e-001	4.636e-001	3.579e-001
2	2.855e-001	2.276e-001	3.047e-001	3.656e-001	2.518e-001
3	1.556e-001	1.151e-001	1.977e-001	1.929e-001	1.197e-001
4	8.788e-002	6.094e-002	1.232e-001	1.068e-001	6.139e-002
5	5.469e-002	4.239e-002	7.822e-002	6.345e-002	3.483e-002
7.5	2.049e-002	1.990e-002	2.567e-002	2.472e-002	1.221e-002
10	1.075e-002	1.156e-002	1.221e-002	1.398e-002	5.677e-003

Source: West Valley fault [2386]
Region: USGS 2014 Utah
Closest Distance: 18.84 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.942e-001	3.496e-001	3.089e-001	2.633e-001	2.550e-001
0.02	2.960e-001	3.520e-001	3.081e-001	2.674e-001	2.566e-001
0.03	3.031e-001	3.502e-001	3.214e-001	2.747e-001	2.659e-001
0.05	3.454e-001	3.779e-001	3.805e-001	3.190e-001	3.040e-001
0.075	4.273e-001	4.470e-001	4.750e-001	4.039e-001	3.831e-001
0.1	5.137e-001	5.428e-001	5.453e-001	5.075e-001	4.591e-001
0.15	6.500e-001	7.695e-001	6.670e-001	6.030e-001	5.605e-001
0.2	7.414e-001	8.919e-001	7.516e-001	6.813e-001	6.408e-001
0.25	7.739e-001	9.228e-001	7.625e-001	7.187e-001	6.916e-001
0.3	7.833e-001	9.211e-001	7.536e-001	7.532e-001	7.054e-001
0.4	7.415e-001	8.596e-001	6.776e-001	7.455e-001	6.835e-001
0.5	6.849e-001	7.570e-001	6.314e-001	7.064e-001	6.448e-001
0.75	5.285e-001	5.250e-001	4.834e-001	5.984e-001	5.072e-001
1	4.081e-001	3.962e-001	3.820e-001	4.571e-001	3.971e-001
1.5	2.663e-001	2.645e-001	2.378e-001	3.115e-001	2.513e-001
2	2.015e-001	1.884e-001	1.824e-001	2.509e-001	1.843e-001
3	1.239e-001	1.062e-001	1.235e-001	1.608e-001	1.052e-001
4	7.653e-002	6.342e-002	8.212e-002	1.015e-001	5.910e-002
5	5.049e-002	4.521e-002	5.517e-002	6.731e-002	3.428e-002
7.5	2.054e-002	2.225e-002	2.116e-002	2.662e-002	1.212e-002
10	1.091e-002	1.346e-002	1.001e-002	1.453e-002	5.647e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.996e-001	2.334e-001	2.079e-001	1.814e-001	1.758e-001
0.02	2.006e-001	2.353e-001	2.067e-001	1.839e-001	1.766e-001
0.03	2.050e-001	2.355e-001	2.140e-001	1.883e-001	1.824e-001
0.05	2.323e-001	2.558e-001	2.477e-001	2.172e-001	2.085e-001
0.075	2.860e-001	3.045e-001	3.047e-001	2.713e-001	2.637e-001
0.1	3.442e-001	3.710e-001	3.501e-001	3.396e-001	3.160e-001
0.15	4.390e-001	5.274e-001	4.371e-001	4.074e-001	3.842e-001
0.2	5.028e-001	6.093e-001	5.035e-001	4.620e-001	4.365e-001
0.25	5.242e-001	6.259e-001	5.148e-001	4.879e-001	4.681e-001
0.3	5.274e-001	6.187e-001	5.105e-001	5.055e-001	4.747e-001
0.4	4.941e-001	5.692e-001	4.573e-001	4.939e-001	4.558e-001
0.5	4.522e-001	4.983e-001	4.210e-001	4.626e-001	4.270e-001
0.75	3.434e-001	3.423e-001	3.166e-001	3.831e-001	3.316e-001
1	2.632e-001	2.560e-001	2.485e-001	2.910e-001	2.574e-001
1.5	1.708e-001	1.696e-001	1.544e-001	1.976e-001	1.615e-001
2	1.288e-001	1.201e-001	1.180e-001	1.593e-001	1.179e-001
3	7.912e-002	6.776e-002	7.940e-002	1.020e-001	6.726e-002
4	4.898e-002	4.058e-002	5.259e-002	6.496e-002	3.779e-002
5	3.228e-002	2.890e-002	3.532e-002	4.296e-002	2.194e-002
7.5	1.314e-002	1.420e-002	1.363e-002	1.695e-002	7.775e-003

10	6.995e-003	8.570e-003	6.520e-003	9.264e-003	3.626e-003

Source: W65G35 West Valley (Wasatch 65) fault (dip 35)
Region: USGS 2014 Utah
Closest Distance: 19.23 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.631e-001	2.952e-001	2.817e-001	2.396e-001	2.359e-001
0.02	2.648e-001	2.979e-001	2.808e-001	2.432e-001	2.372e-001
0.03	2.719e-001	2.992e-001	2.930e-001	2.496e-001	2.459e-001
0.05	3.117e-001	3.273e-001	3.473e-001	2.905e-001	2.817e-001
0.075	3.879e-001	3.917e-001	4.345e-001	3.697e-001	3.560e-001
0.1	4.675e-001	4.787e-001	5.000e-001	4.634e-001	4.279e-001
0.15	5.929e-001	6.801e-001	6.131e-001	5.545e-001	5.241e-001
0.2	6.741e-001	7.838e-001	6.910e-001	6.224e-001	5.995e-001
0.25	7.017e-001	8.026e-001	7.008e-001	6.568e-001	6.467e-001
0.3	7.059e-001	7.915e-001	6.914e-001	6.814e-001	6.594e-001
0.4	6.645e-001	7.282e-001	6.196e-001	6.715e-001	6.387e-001
0.5	6.137e-001	6.412e-001	5.751e-001	6.361e-001	6.025e-001
0.75	4.722e-001	4.451e-001	4.380e-001	5.304e-001	4.752e-001
1	3.673e-001	3.366e-001	3.441e-001	4.161e-001	3.724e-001
1.5	2.409e-001	2.286e-001	2.128e-001	2.851e-001	2.370e-001
2	1.722e-001	1.553e-001	1.521e-001	2.175e-001	1.641e-001
3	9.910e-002	8.398e-002	9.430e-002	1.305e-001	8.758e-002
4	6.100e-002	5.222e-002	6.135e-002	8.198e-002	4.846e-002
5	4.014e-002	3.691e-002	4.097e-002	5.477e-002	2.789e-002
7.5	1.626e-002	1.805e-002	1.573e-002	2.148e-002	9.786e-003
10	8.531e-003	1.078e-002	7.326e-003	1.152e-002	4.492e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.782e-001	1.962e-001	1.897e-001	1.644e-001	1.624e-001
0.02	1.791e-001	1.983e-001	1.884e-001	1.667e-001	1.630e-001
0.03	1.835e-001	2.002e-001	1.950e-001	1.705e-001	1.684e-001
0.05	2.091e-001	2.203e-001	2.261e-001	1.970e-001	1.929e-001
0.075	2.589e-001	2.651e-001	2.787e-001	2.473e-001	2.445e-001
0.1	3.122e-001	3.250e-001	3.210e-001	3.089e-001	2.938e-001
0.15	3.989e-001	4.627e-001	4.017e-001	3.730e-001	3.582e-001
0.2	4.555e-001	5.315e-001	4.629e-001	4.202e-001	4.073e-001
0.25	4.737e-001	5.407e-001	4.731e-001	4.442e-001	4.366e-001
0.3	4.739e-001	5.285e-001	4.684e-001	4.559e-001	4.429e-001
0.4	4.419e-001	4.803e-001	4.182e-001	4.440e-001	4.253e-001
0.5	4.046e-001	4.207e-001	3.834e-001	4.159e-001	3.984e-001
0.75	3.065e-001	2.895e-001	2.869e-001	3.393e-001	3.104e-001
1	2.368e-001	2.172e-001	2.238e-001	2.647e-001	2.413e-001
1.5	1.544e-001	1.465e-001	1.382e-001	1.808e-001	1.522e-001
2	1.101e-001	9.894e-002	9.843e-002	1.381e-001	1.050e-001
3	6.325e-002	5.358e-002	6.061e-002	8.284e-002	5.598e-002
4	3.904e-002	3.341e-002	3.929e-002	5.248e-002	3.099e-002
5	2.566e-002	2.360e-002	2.622e-002	3.496e-002	1.785e-002
7.5	1.040e-002	1.152e-002	1.014e-002	1.368e-002	6.275e-003
10	5.467e-003	6.863e-003	4.774e-003	7.346e-003	2.884e-003

Source: W50G35 West Valley (Wasatch 50) fault (dip 35)
Region: USGS 2014 Utah
Closest Distance: 19.64 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.532e-001	2.761e-001	2.742e-001	2.332e-001	2.292e-001
0.02	2.548e-001	2.789e-001	2.732e-001	2.367e-001	2.304e-001
0.03	2.620e-001	2.810e-001	2.851e-001	2.429e-001	2.389e-001

0.05	3.009e-001	3.090e-001	3.381e-001	2.827e-001	2.740e-001
0.075	3.753e-001	3.713e-001	4.231e-001	3.601e-001	3.467e-001
0.1	4.528e-001	4.549e-001	4.873e-001	4.518e-001	4.171e-001
0.15	5.744e-001	6.466e-001	5.979e-001	5.417e-001	5.112e-001
0.2	6.524e-001	7.435e-001	6.740e-001	6.076e-001	5.846e-001
0.25	6.785e-001	7.587e-001	6.835e-001	6.413e-001	6.304e-001
0.3	6.816e-001	7.451e-001	6.740e-001	6.649e-001	6.425e-001
0.4	6.404e-001	6.823e-001	6.034e-001	6.541e-001	6.219e-001
0.5	5.914e-001	6.010e-001	5.595e-001	6.190e-001	5.862e-001
0.75	4.548e-001	4.173e-001	4.256e-001	5.145e-001	4.621e-001
1	3.540e-001	3.158e-001	3.337e-001	4.046e-001	3.620e-001
1.5	2.324e-001	2.156e-001	2.060e-001	2.774e-001	2.305e-001
2	1.664e-001	1.472e-001	1.470e-001	2.115e-001	1.597e-001
3	9.695e-002	8.142e-002	9.182e-002	1.284e-001	8.619e-002
4	6.080e-002	5.234e-002	6.057e-002	8.188e-002	4.839e-002
5	4.045e-002	3.738e-002	4.088e-002	5.538e-002	2.815e-002
7.5	1.652e-002	1.843e-002	1.584e-002	2.187e-002	9.938e-003
10	8.704e-003	1.107e-002	7.401e-003	1.177e-002	4.579e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.714e-001	1.833e-001	1.846e-001	1.599e-001	1.577e-001
0.02	1.723e-001	1.854e-001	1.833e-001	1.620e-001	1.583e-001
0.03	1.767e-001	1.877e-001	1.897e-001	1.657e-001	1.635e-001
0.05	2.016e-001	2.075e-001	2.201e-001	1.914e-001	1.875e-001
0.075	2.502e-001	2.507e-001	2.714e-001	2.407e-001	2.379e-001
0.1	3.019e-001	3.080e-001	3.129e-001	3.008e-001	2.861e-001
0.15	3.859e-001	4.387e-001	3.918e-001	3.639e-001	3.490e-001
0.2	4.402e-001	5.028e-001	4.515e-001	4.098e-001	3.968e-001
0.25	4.575e-001	5.099e-001	4.614e-001	4.333e-001	4.252e-001
0.3	4.572e-001	4.965e-001	4.566e-001	4.444e-001	4.311e-001
0.4	4.257e-001	4.495e-001	4.073e-001	4.322e-001	4.138e-001
0.5	3.897e-001	3.938e-001	3.730e-001	4.045e-001	3.874e-001
0.75	2.952e-001	2.712e-001	2.787e-001	3.290e-001	3.017e-001
1	2.281e-001	2.037e-001	2.171e-001	2.574e-001	2.345e-001
1.5	1.489e-001	1.381e-001	1.338e-001	1.758e-001	1.480e-001
2	1.064e-001	9.382e-002	9.514e-002	1.344e-001	1.022e-001
3	6.188e-002	5.195e-002	5.902e-002	8.146e-002	5.509e-002
4	3.891e-002	3.349e-002	3.878e-002	5.242e-002	3.095e-002
5	2.586e-002	2.390e-002	2.617e-002	3.534e-002	1.802e-002
7.5	1.057e-002	1.176e-002	1.020e-002	1.393e-002	6.373e-003
10	5.577e-003	7.045e-003	4.823e-003	7.501e-003	2.940e-003

Source: W35G35 West Valley (Wasatch 35) fault (dip 35)
Region: USGS 2014 Utah
Closest Distance: 20.22 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.415e-001	2.528e-001	2.658e-001	2.259e-001	2.214e-001
0.02	2.430e-001	2.556e-001	2.648e-001	2.292e-001	2.225e-001
0.03	2.502e-001	2.586e-001	2.763e-001	2.352e-001	2.308e-001
0.05	2.882e-001	2.861e-001	3.278e-001	2.738e-001	2.650e-001
0.075	3.603e-001	3.457e-001	4.105e-001	3.493e-001	3.359e-001
0.1	4.352e-001	4.248e-001	4.731e-001	4.386e-001	4.045e-001
0.15	5.520e-001	6.041e-001	5.810e-001	5.269e-001	4.960e-001
0.2	6.264e-001	6.927e-001	6.550e-001	5.908e-001	5.671e-001
0.25	6.506e-001	7.036e-001	6.642e-001	6.236e-001	6.110e-001
0.3	6.527e-001	6.875e-001	6.547e-001	6.462e-001	6.225e-001
0.4	6.120e-001	6.263e-001	5.856e-001	6.344e-001	6.018e-001
0.5	5.651e-001	5.518e-001	5.423e-001	5.996e-001	5.668e-001
0.75	4.346e-001	3.834e-001	4.118e-001	4.969e-001	4.462e-001
1	3.383e-001	2.904e-001	3.223e-001	3.912e-001	3.493e-001
1.5	2.222e-001	1.997e-001	1.985e-001	2.682e-001	2.225e-001
2	1.594e-001	1.373e-001	1.415e-001	2.045e-001	1.543e-001
3	9.337e-002	7.735e-002	8.831e-002	1.244e-001	8.347e-002
4	5.893e-002	5.101e-002	5.829e-002	7.950e-002	4.692e-002
5	3.924e-002	3.644e-002	3.937e-002	5.384e-002	2.730e-002
7.5	1.606e-002	1.801e-002	1.529e-002	2.128e-002	9.638e-003
10	8.465e-003	1.084e-002	7.144e-003	1.144e-002	4.441e-003

Fractile: Mean
Column 1: Spectral Period

Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.633e-001	1.675e-001	1.789e-001	1.547e-001	1.522e-001
0.02	1.642e-001	1.696e-001	1.777e-001	1.567e-001	1.528e-001
0.03	1.686e-001	1.723e-001	1.839e-001	1.603e-001	1.579e-001
0.05	1.928e-001	1.916e-001	2.134e-001	1.852e-001	1.812e-001
0.075	2.398e-001	2.327e-001	2.633e-001	2.331e-001	2.303e-001
0.1	2.898e-001	2.867e-001	3.038e-001	2.916e-001	2.771e-001
0.15	3.702e-001	4.085e-001	3.807e-001	3.535e-001	3.382e-001
0.2	4.220e-001	4.669e-001	4.388e-001	3.980e-001	3.844e-001
0.25	4.381e-001	4.715e-001	4.485e-001	4.209e-001	4.118e-001
0.3	4.373e-001	4.570e-001	4.435e-001	4.315e-001	4.173e-001
0.4	4.065e-001	4.119e-001	3.952e-001	4.189e-001	4.001e-001
0.5	3.722e-001	3.612e-001	3.615e-001	3.916e-001	3.744e-001
0.75	2.819e-001	2.489e-001	2.697e-001	3.177e-001	2.913e-001
1	2.180e-001	1.872e-001	2.096e-001	2.488e-001	2.262e-001
1.5	1.424e-001	1.279e-001	1.289e-001	1.700e-001	1.428e-001
2	1.019e-001	8.749e-002	9.153e-002	1.299e-001	9.867e-002
3	5.959e-002	4.935e-002	5.676e-002	7.892e-002	5.335e-002
4	3.772e-002	3.264e-002	3.732e-002	5.089e-002	3.001e-002
5	2.508e-002	2.329e-002	2.520e-002	3.436e-002	1.747e-002
7.5	1.027e-002	1.149e-002	9.852e-003	1.355e-002	6.180e-003
10	5.424e-003	6.899e-003	4.655e-003	7.292e-003	2.851e-003

Source: W65G50 West Valley (Wasatch 65) fault (dip 50)
Region: USGS 2014 Utah
Closest Distance: 20.82 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.459e-001	2.599e-001	2.750e-001	2.271e-001	2.217e-001
0.02	2.475e-001	2.628e-001	2.740e-001	2.305e-001	2.229e-001
0.03	2.548e-001	2.654e-001	2.859e-001	2.368e-001	2.313e-001
0.05	2.935e-001	2.930e-001	3.390e-001	2.761e-001	2.657e-001
0.075	3.665e-001	3.533e-001	4.243e-001	3.517e-001	3.368e-001
0.1	4.424e-001	4.336e-001	4.886e-001	4.420e-001	4.055e-001
0.15	5.604e-001	6.166e-001	5.995e-001	5.289e-001	4.967e-001
0.2	6.364e-001	7.079e-001	6.757e-001	5.946e-001	5.674e-001
0.25	6.609e-001	7.206e-001	6.852e-001	6.271e-001	6.106e-001
0.3	6.633e-001	7.056e-001	6.758e-001	6.508e-001	6.212e-001
0.4	6.219e-001	6.440e-001	6.051e-001	6.390e-001	5.994e-001
0.5	5.740e-001	5.672e-001	5.611e-001	6.040e-001	5.636e-001
0.75	4.414e-001	3.935e-001	4.268e-001	5.033e-001	4.421e-001
1	3.423e-001	2.975e-001	3.347e-001	3.914e-001	3.455e-001
1.5	2.242e-001	2.031e-001	2.067e-001	2.675e-001	2.193e-001
2	1.604e-001	1.389e-001	1.477e-001	2.032e-001	1.517e-001
3	9.239e-002	7.634e-002	9.141e-002	1.212e-001	8.064e-002
4	5.695e-002	4.844e-002	5.924e-002	7.575e-002	4.438e-002
5	3.733e-002	3.412e-002	3.944e-002	5.029e-002	2.546e-002
7.5	1.514e-002	1.677e-002	1.514e-002	1.972e-002	8.912e-003
10	7.933e-003	1.006e-002	7.042e-003	1.054e-002	4.086e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.664e-001	1.723e-001	1.851e-001	1.556e-001	1.525e-001
0.02	1.672e-001	1.744e-001	1.838e-001	1.577e-001	1.530e-001
0.03	1.717e-001	1.770e-001	1.903e-001	1.613e-001	1.582e-001
0.05	1.964e-001	1.964e-001	2.207e-001	1.868e-001	1.817e-001
0.075	2.440e-001	2.380e-001	2.721e-001	2.348e-001	2.309e-001
0.1	2.946e-001	2.929e-001	3.137e-001	2.940e-001	2.778e-001
0.15	3.760e-001	4.173e-001	3.928e-001	3.550e-001	3.387e-001
0.2	4.289e-001	4.776e-001	4.527e-001	4.006e-001	3.847e-001
0.25	4.452e-001	4.833e-001	4.626e-001	4.233e-001	4.115e-001
0.3	4.446e-001	4.694e-001	4.578e-001	4.346e-001	4.164e-001
0.4	4.131e-001	4.237e-001	4.084e-001	4.220e-001	3.984e-001
0.5	3.781e-001	3.714e-001	3.741e-001	3.945e-001	3.722e-001
0.75	2.864e-001	2.556e-001	2.796e-001	3.218e-001	2.885e-001
1	2.205e-001	1.917e-001	2.178e-001	2.490e-001	2.237e-001

1.5	1.437e-001	1.301e-001	1.342e-001	1.696e-001	1.408e-001
2	1.025e-001	8.852e-002	9.557e-002	1.291e-001	9.701e-002
3	5.898e-002	4.871e-002	5.875e-002	7.690e-002	5.154e-002
4	3.645e-002	3.099e-002	3.793e-002	4.849e-002	2.838e-002
5	2.386e-002	2.182e-002	2.524e-002	3.209e-002	1.629e-002
7.5	9.683e-003	1.070e-002	9.756e-003	1.256e-002	5.715e-003
10	5.084e-003	6.405e-003	4.589e-003	6.720e-003	2.624e-003

Source: W50G50 West Valley (Wasatch 50) fault (dip 50)
Region: USGS 2014 Utah
Closest Distance: 20.95 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.375e-001	2.456e-001	2.658e-001	2.221e-001	2.166e-001
0.02	2.391e-001	2.484e-001	2.648e-001	2.254e-001	2.177e-001
0.03	2.463e-001	2.516e-001	2.763e-001	2.314e-001	2.259e-001
0.05	2.840e-001	2.788e-001	3.278e-001	2.697e-001	2.596e-001
0.075	3.553e-001	3.374e-001	4.105e-001	3.440e-001	3.294e-001
0.1	4.293e-001	4.149e-001	4.731e-001	4.323e-001	3.969e-001
0.15	5.441e-001	5.901e-001	5.810e-001	5.188e-001	4.865e-001
0.2	6.174e-001	6.762e-001	6.550e-001	5.825e-001	5.560e-001
0.25	6.409e-001	6.862e-001	6.642e-001	6.147e-001	5.982e-001
0.3	6.426e-001	6.698e-001	6.547e-001	6.372e-001	6.086e-001
0.4	6.017e-001	6.093e-001	5.856e-001	6.248e-001	5.872e-001
0.5	5.554e-001	5.368e-001	5.423e-001	5.902e-001	5.522e-001
0.75	4.270e-001	3.728e-001	4.118e-001	4.898e-001	4.336e-001
1	3.316e-001	2.821e-001	3.223e-001	3.831e-001	3.389e-001
1.5	2.175e-001	1.939e-001	1.985e-001	2.622e-001	2.155e-001
2	1.558e-001	1.332e-001	1.415e-001	1.993e-001	1.492e-001
3	9.112e-002	7.499e-002	8.831e-002	1.206e-001	8.054e-002
4	5.749e-002	4.943e-002	5.829e-002	7.699e-002	4.523e-002
5	3.825e-002	3.531e-002	3.937e-002	5.200e-002	2.631e-002
7.5	1.567e-002	1.751e-002	1.529e-002	2.057e-002	9.290e-003
10	8.259e-003	1.056e-002	7.144e-003	1.105e-002	4.280e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.606e-001	1.626e-001	1.789e-001	1.521e-001	1.489e-001
0.02	1.615e-001	1.647e-001	1.777e-001	1.540e-001	1.494e-001
0.03	1.659e-001	1.675e-001	1.839e-001	1.576e-001	1.545e-001
0.05	1.899e-001	1.865e-001	2.134e-001	1.823e-001	1.775e-001
0.075	2.363e-001	2.269e-001	2.633e-001	2.294e-001	2.257e-001
0.1	2.856e-001	2.797e-001	3.038e-001	2.873e-001	2.717e-001
0.15	3.647e-001	3.985e-001	3.807e-001	3.479e-001	3.316e-001
0.2	4.157e-001	4.553e-001	4.388e-001	3.921e-001	3.766e-001
0.25	4.313e-001	4.594e-001	4.485e-001	4.146e-001	4.029e-001
0.3	4.304e-001	4.449e-001	4.435e-001	4.253e-001	4.077e-001
0.4	3.996e-001	4.005e-001	3.952e-001	4.124e-001	3.901e-001
0.5	3.657e-001	3.512e-001	3.615e-001	3.854e-001	3.645e-001
0.75	2.769e-001	2.420e-001	2.697e-001	3.131e-001	2.829e-001
1	2.136e-001	1.818e-001	2.096e-001	2.437e-001	2.194e-001
1.5	1.394e-001	1.241e-001	1.289e-001	1.662e-001	1.383e-001
2	9.961e-002	8.489e-002	9.153e-002	1.266e-001	9.543e-002
3	5.816e-002	4.785e-002	5.676e-002	7.655e-002	5.148e-002
4	3.679e-002	3.163e-002	3.733e-002	4.929e-002	2.892e-002
5	2.445e-002	2.257e-002	2.520e-002	3.319e-002	1.684e-002
7.5	1.002e-002	1.117e-002	9.852e-003	1.310e-002	5.957e-003
10	5.293e-003	6.723e-003	4.655e-003	7.043e-003	2.749e-003

Source: W35G50 West Valley (Wasatch 35) fault (dip 50)
Region: USGS 2014 Utah
Closest Distance: 21.33 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014

Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.315e-001	2.420e-001	2.573e-001	2.164e-001	2.105e-001
0.02	2.330e-001	2.448e-001	2.562e-001	2.195e-001	2.115e-001
0.03	2.401e-001	2.481e-001	2.673e-001	2.253e-001	2.195e-001
0.05	2.769e-001	2.752e-001	3.173e-001	2.626e-001	2.525e-001
0.075	3.467e-001	3.333e-001	3.975e-001	3.352e-001	3.208e-001
0.1	4.192e-001	4.100e-001	4.586e-001	4.216e-001	3.867e-001
0.15	5.321e-001	5.831e-001	5.637e-001	5.071e-001	4.744e-001
0.2	6.037e-001	6.680e-001	6.356e-001	5.688e-001	5.421e-001
0.25	6.264e-001	6.776e-001	6.446e-001	6.005e-001	5.831e-001
0.3	6.278e-001	6.610e-001	6.350e-001	6.221e-001	5.931e-001
0.4	5.873e-001	6.009e-001	5.674e-001	6.091e-001	5.719e-001
0.5	5.417e-001	5.295e-001	5.248e-001	5.748e-001	5.376e-001
0.75	4.158e-001	3.676e-001	3.979e-001	4.755e-001	4.221e-001
1	3.229e-001	2.781e-001	3.107e-001	3.731e-001	3.298e-001
1.5	2.119e-001	1.910e-001	1.910e-001	2.555e-001	2.099e-001
2	1.517e-001	1.312e-001	1.359e-001	1.942e-001	1.455e-001
3	8.887e-002	7.383e-002	8.478e-002	1.180e-001	7.888e-002
4	5.613e-002	4.865e-002	5.600e-002	7.550e-002	4.438e-002
5	3.738e-002	3.476e-002	3.785e-002	5.110e-002	2.582e-002
7.5	1.534e-002	1.726e-002	1.474e-002	2.023e-002	9.116e-003
10	8.092e-003	1.043e-002	6.883e-003	1.086e-002	4.200e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.565e-001	1.602e-001	1.732e-001	1.480e-001	1.446e-001
0.02	1.573e-001	1.623e-001	1.719e-001	1.499e-001	1.451e-001
0.03	1.616e-001	1.652e-001	1.780e-001	1.533e-001	1.500e-001
0.05	1.851e-001	1.841e-001	2.066e-001	1.773e-001	1.725e-001
0.075	2.305e-001	2.240e-001	2.550e-001	2.234e-001	2.196e-001
0.1	2.788e-001	2.763e-001	2.945e-001	2.799e-001	2.645e-001
0.15	3.564e-001	3.936e-001	3.694e-001	3.396e-001	3.230e-001
0.2	4.062e-001	4.495e-001	4.258e-001	3.825e-001	3.669e-001
0.25	4.214e-001	4.534e-001	4.352e-001	4.046e-001	3.923e-001
0.3	4.202e-001	4.389e-001	4.302e-001	4.149e-001	3.970e-001
0.4	3.899e-001	3.949e-001	3.829e-001	4.018e-001	3.797e-001
0.5	3.565e-001	3.463e-001	3.499e-001	3.752e-001	3.547e-001
0.75	2.696e-001	2.386e-001	2.606e-001	3.039e-001	2.753e-001
1	2.080e-001	1.792e-001	2.022e-001	2.373e-001	2.135e-001
1.5	1.358e-001	1.223e-001	1.241e-001	1.620e-001	1.347e-001
2	9.699e-002	8.361e-002	8.791e-002	1.234e-001	9.308e-002
3	5.672e-002	4.711e-002	5.449e-002	7.488e-002	5.041e-002
4	3.592e-002	3.113e-002	3.586e-002	4.833e-002	2.838e-002
5	2.390e-002	2.222e-002	2.423e-002	3.261e-002	1.652e-002
7.5	9.810e-003	1.102e-002	9.495e-003	1.288e-002	5.846e-003
10	5.185e-003	6.637e-003	4.485e-003	6.921e-003	2.697e-003

Source: W50G65 West Valley (Wasatch 50) fault (dip 65)
Region: USGS 2014 Utah
Closest Distance: 22.46 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.247e-001	2.318e-001	2.565e-001	2.089e-001	2.016e-001
0.02	2.261e-001	2.346e-001	2.554e-001	2.119e-001	2.026e-001
0.03	2.331e-001	2.381e-001	2.665e-001	2.176e-001	2.103e-001
0.05	2.693e-001	2.648e-001	3.163e-001	2.539e-001	2.424e-001
0.075	3.376e-001	3.214e-001	3.963e-001	3.243e-001	3.084e-001
0.1	4.084e-001	3.957e-001	4.572e-001	4.084e-001	3.722e-001
0.15	5.182e-001	5.629e-001	5.620e-001	4.911e-001	4.566e-001
0.2	5.877e-001	6.443e-001	6.337e-001	5.515e-001	5.214e-001
0.25	6.093e-001	6.527e-001	6.426e-001	5.821e-001	5.599e-001
0.3	6.102e-001	6.357e-001	6.331e-001	6.033e-001	5.686e-001
0.4	5.697e-001	5.770e-001	5.656e-001	5.894e-001	5.470e-001
0.5	5.251e-001	5.084e-001	5.231e-001	5.555e-001	5.132e-001
0.75	4.027e-001	3.527e-001	3.965e-001	4.597e-001	4.017e-001
1	3.120e-001	2.665e-001	3.096e-001	3.586e-001	3.134e-001
1.5	2.044e-001	1.829e-001	1.903e-001	2.452e-001	1.992e-001
2	1.461e-001	1.256e-001	1.353e-001	1.857e-001	1.379e-001
3	8.553e-002	7.056e-002	8.443e-002	1.124e-001	7.472e-002
4	5.404e-002	4.646e-002	5.578e-002	7.188e-002	4.203e-002

5	3.597e-002	3.320e-002	3.770e-002	4.854e-002	2.445e-002
7.5	1.478e-002	1.656e-002	1.468e-002	1.924e-002	8.634e-003
10	7.799e-003	1.004e-002	6.857e-003	1.032e-002	3.979e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.518e-001	1.534e-001	1.726e-001	1.427e-001	1.384e-001
0.02	1.525e-001	1.554e-001	1.714e-001	1.445e-001	1.389e-001
0.03	1.568e-001	1.584e-001	1.774e-001	1.478e-001	1.436e-001
0.05	1.798e-001	1.769e-001	2.059e-001	1.712e-001	1.654e-001
0.075	2.241e-001	2.157e-001	2.542e-001	2.158e-001	2.109e-001
0.1	2.712e-001	2.662e-001	2.935e-001	2.708e-001	2.542e-001
0.15	3.466e-001	3.793e-001	3.683e-001	3.284e-001	3.104e-001
0.2	3.950e-001	4.329e-001	4.245e-001	3.703e-001	3.524e-001
0.25	4.095e-001	4.362e-001	4.339e-001	3.918e-001	3.763e-001
0.3	4.081e-001	4.216e-001	4.289e-001	4.020e-001	3.802e-001
0.4	3.780e-001	3.789e-001	3.817e-001	3.886e-001	3.628e-001
0.5	3.455e-001	3.324e-001	3.487e-001	3.624e-001	3.383e-001
0.75	2.610e-001	2.288e-001	2.597e-001	2.938e-001	2.618e-001
1	2.010e-001	1.717e-001	2.014e-001	2.280e-001	2.028e-001
1.5	1.310e-001	1.171e-001	1.236e-001	1.554e-001	1.278e-001
2	9.343e-002	7.998e-002	8.756e-002	1.180e-001	8.822e-002
3	5.459e-002	4.502e-002	5.427e-002	7.133e-002	4.776e-002
4	3.458e-002	2.973e-002	3.571e-002	4.601e-002	2.688e-002
5	2.300e-002	2.122e-002	2.413e-002	3.098e-002	1.565e-002
7.5	9.456e-003	1.057e-002	9.460e-003	1.226e-002	5.537e-003
10	4.998e-003	6.392e-003	4.468e-003	6.577e-003	2.555e-003

Source: W65G65 West Valley (Wasatch 65) fault (dip 65)
Region: USGS 2014 Utah
Closest Distance: 22.46 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.284e-001	2.318e-001	2.658e-001	2.116e-001	2.044e-001
0.02	2.299e-001	2.346e-001	2.648e-001	2.146e-001	2.054e-001
0.03	2.371e-001	2.381e-001	2.763e-001	2.205e-001	2.133e-001
0.05	2.740e-001	2.648e-001	3.278e-001	2.574e-001	2.457e-001
0.075	3.433e-001	3.214e-001	4.105e-001	3.285e-001	3.126e-001
0.1	4.149e-001	3.957e-001	4.731e-001	4.138e-001	3.770e-001
0.15	5.257e-001	5.629e-001	5.810e-001	4.965e-001	4.623e-001
0.2	5.963e-001	6.443e-001	6.550e-001	5.581e-001	5.278e-001
0.25	6.182e-001	6.527e-001	6.642e-001	5.890e-001	5.668e-001
0.3	6.192e-001	6.357e-001	6.547e-001	6.108e-001	5.755e-001
0.4	5.783e-001	5.770e-001	5.856e-001	5.971e-001	5.534e-001
0.5	5.332e-001	5.084e-001	5.423e-001	5.630e-001	5.192e-001
0.75	4.094e-001	3.527e-001	4.118e-001	4.672e-001	4.059e-001
1	3.170e-001	2.665e-001	3.223e-001	3.627e-001	3.165e-001
1.5	2.075e-001	1.829e-001	1.985e-001	2.477e-001	2.009e-001
2	1.498e-001	1.268e-001	1.429e-001	1.893e-001	1.402e-001
3	8.706e-002	7.088e-002	8.870e-002	1.135e-001	7.522e-002
4	5.347e-002	4.540e-002	5.696e-002	7.042e-002	4.108e-002
5	3.475e-002	3.170e-002	3.760e-002	4.635e-002	2.335e-002
7.5	1.406e-002	1.560e-002	1.440e-002	1.812e-002	8.132e-003
10	7.363e-003	9.392e-003	6.683e-003	9.653e-003	3.722e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.543e-001	1.534e-001	1.789e-001	1.446e-001	1.404e-001
0.02	1.551e-001	1.554e-001	1.777e-001	1.465e-001	1.409e-001
0.03	1.595e-001	1.584e-001	1.839e-001	1.499e-001	1.457e-001
0.05	1.829e-001	1.769e-001	2.134e-001	1.737e-001	1.678e-001
0.075	2.279e-001	2.157e-001	2.633e-001	2.188e-001	2.139e-001
0.1	2.755e-001	2.662e-001	3.038e-001	2.745e-001	2.576e-001
0.15	3.517e-001	3.793e-001	3.807e-001	3.323e-001	3.144e-001
0.2	4.009e-001	4.329e-001	4.388e-001	3.750e-001	3.569e-001

0.25	4.155e-001	4.362e-001	4.485e-001	3.965e-001	3.810e-001
0.3	4.143e-001	4.216e-001	4.435e-001	4.071e-001	3.849e-001
0.4	3.838e-001	3.789e-001	3.952e-001	3.938e-001	3.672e-001
0.5	3.509e-001	3.324e-001	3.615e-001	3.674e-001	3.423e-001
0.75	2.654e-001	2.288e-001	2.697e-001	2.986e-001	2.646e-001
1	2.042e-001	1.717e-001	2.097e-001	2.307e-001	2.048e-001
1.5	1.330e-001	1.171e-001	1.289e-001	1.570e-001	1.289e-001
2	9.577e-002	8.076e-002	9.243e-002	1.202e-001	8.969e-002
3	5.558e-002	4.522e-002	5.702e-002	7.200e-002	4.808e-002
4	3.422e-002	2.905e-002	3.648e-002	4.508e-002	2.627e-002
5	2.221e-002	2.026e-002	2.407e-002	2.958e-002	1.494e-002
7.5	8.997e-003	9.953e-003	9.279e-003	1.154e-002	5.215e-003
10	4.719e-003	5.979e-003	4.355e-003	6.153e-003	2.390e-003

Source: W35G65 West Valley (Wasatch 35) fault (dip 65)
Region: USGS 2014 Utah
Closest Distance: 22.47 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.217e-001	2.317e-001	2.491e-001	2.067e-001	1.993e-001
0.02	2.231e-001	2.345e-001	2.480e-001	2.096e-001	2.001e-001
0.03	2.300e-001	2.380e-001	2.588e-001	2.152e-001	2.078e-001
0.05	2.656e-001	2.647e-001	3.072e-001	2.510e-001	2.395e-001
0.075	3.330e-001	3.213e-001	3.851e-001	3.208e-001	3.049e-001
0.1	4.031e-001	3.956e-001	4.447e-001	4.041e-001	3.681e-001
0.15	5.120e-001	5.627e-001	5.470e-001	4.866e-001	4.518e-001
0.2	5.808e-001	6.440e-001	6.170e-001	5.460e-001	5.160e-001
0.25	6.022e-001	6.524e-001	6.257e-001	5.765e-001	5.542e-001
0.3	6.029e-001	6.354e-001	6.161e-001	5.972e-001	5.628e-001
0.4	5.628e-001	5.767e-001	5.500e-001	5.832e-001	5.415e-001
0.5	5.185e-001	5.082e-001	5.081e-001	5.494e-001	5.082e-001
0.75	3.972e-001	3.526e-001	3.846e-001	4.537e-001	3.980e-001
1	3.080e-001	2.664e-001	2.998e-001	3.551e-001	3.106e-001
1.5	2.018e-001	1.828e-001	1.839e-001	2.430e-001	1.977e-001
2	1.444e-001	1.255e-001	1.306e-001	1.843e-001	1.371e-001
3	8.461e-002	7.053e-002	8.144e-002	1.119e-001	7.455e-002
4	5.350e-002	4.644e-002	5.383e-002	7.171e-002	4.200e-002
5	3.564e-002	3.318e-002	3.640e-002	4.852e-002	2.444e-002
7.5	1.466e-002	1.655e-002	1.421e-002	1.924e-002	8.630e-003
10	7.740e-003	1.004e-002	6.633e-003	1.031e-002	3.976e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.497e-001	1.533e-001	1.677e-001	1.412e-001	1.368e-001
0.02	1.505e-001	1.553e-001	1.664e-001	1.429e-001	1.372e-001
0.03	1.547e-001	1.583e-001	1.722e-001	1.462e-001	1.419e-001
0.05	1.774e-001	1.768e-001	2.000e-001	1.692e-001	1.634e-001
0.075	2.211e-001	2.156e-001	2.470e-001	2.134e-001	2.084e-001
0.1	2.677e-001	2.661e-001	2.855e-001	2.678e-001	2.513e-001
0.15	3.425e-001	3.792e-001	3.585e-001	3.253e-001	3.070e-001
0.2	3.903e-001	4.327e-001	4.133e-001	3.665e-001	3.486e-001
0.25	4.046e-001	4.360e-001	4.224e-001	3.878e-001	3.723e-001
0.3	4.032e-001	4.215e-001	4.174e-001	3.977e-001	3.762e-001
0.4	3.733e-001	3.788e-001	3.712e-001	3.844e-001	3.591e-001
0.5	3.411e-001	3.322e-001	3.387e-001	3.584e-001	3.349e-001
0.75	2.575e-001	2.288e-001	2.519e-001	2.899e-001	2.594e-001
1	1.984e-001	1.716e-001	1.950e-001	2.258e-001	2.010e-001
1.5	1.293e-001	1.170e-001	1.195e-001	1.540e-001	1.268e-001
2	9.229e-002	7.995e-002	8.449e-002	1.170e-001	8.768e-002
3	5.400e-002	4.500e-002	5.235e-002	7.102e-002	4.764e-002
4	3.424e-002	2.971e-002	3.447e-002	4.590e-002	2.686e-002
5	2.278e-002	2.121e-002	2.330e-002	3.096e-002	1.564e-002
7.5	9.376e-003	1.056e-002	9.155e-003	1.225e-002	5.534e-003
10	4.960e-003	6.389e-003	4.322e-003	6.574e-003	2.553e-003

Source: Great Salt Lake fault zone, Antelope Island [2369c]
Region: USGS 2014 Utah
Closest Distance: 30.46 km
Amplitude Units: Acceleration (g)
Magnitude: 6.93 Mw

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.083e-001	2.326e-001	2.275e-001	1.814e-001	1.918e-001
0.02	2.092e-001	2.352e-001	2.253e-001	1.839e-001	1.923e-001
0.03	2.150e-001	2.384e-001	2.338e-001	1.890e-001	1.987e-001
0.05	2.460e-001	2.644e-001	2.743e-001	2.175e-001	2.278e-001
0.075	3.053e-001	3.194e-001	3.396e-001	2.731e-001	2.893e-001
0.1	3.675e-001	3.921e-001	3.876e-001	3.408e-001	3.494e-001
0.15	4.663e-001	5.618e-001	4.700e-001	4.040e-001	4.295e-001
0.2	5.322e-001	6.516e-001	5.302e-001	4.556e-001	4.915e-001
0.25	5.585e-001	6.712e-001	5.413e-001	4.924e-001	5.293e-001
0.3	5.658e-001	6.644e-001	5.366e-001	5.222e-001	5.398e-001
0.4	5.360e-001	6.224e-001	4.856e-001	5.129e-001	5.230e-001
0.5	4.996e-001	5.611e-001	4.535e-001	4.895e-001	4.942e-001
0.75	3.910e-001	4.093e-001	3.480e-001	4.129e-001	3.940e-001
1	3.074e-001	3.174e-001	2.743e-001	3.254e-001	3.127e-001
1.5	2.116e-001	2.242e-001	1.779e-001	2.377e-001	2.065e-001
2	1.603e-001	1.633e-001	1.359e-001	1.885e-001	1.536e-001
3	1.034e-001	1.017e-001	9.441e-002	1.249e-001	9.277e-002
4	6.897e-002	7.097e-002	6.647e-002	8.305e-002	5.539e-002
5	4.740e-002	5.203e-002	4.690e-002	5.708e-002	3.360e-002
7.5	2.130e-002	2.808e-002	2.028e-002	2.394e-002	1.290e-002
10	1.175e-002	1.826e-002	1.005e-002	1.235e-002	6.341e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.407e-001	1.547e-001	1.532e-001	1.234e-001	1.315e-001
0.02	1.411e-001	1.566e-001	1.512e-001	1.249e-001	1.318e-001
0.03	1.446e-001	1.594e-001	1.556e-001	1.278e-001	1.355e-001
0.05	1.643e-001	1.774e-001	1.786e-001	1.459e-001	1.553e-001
0.075	2.028e-001	2.152e-001	2.178e-001	1.808e-001	1.974e-001
0.1	2.442e-001	2.648e-001	2.488e-001	2.248e-001	2.381e-001
0.15	3.121e-001	3.802e-001	3.080e-001	2.688e-001	2.913e-001
0.2	3.578e-001	4.400e-001	3.552e-001	3.045e-001	3.315e-001
0.25	3.754e-001	4.511e-001	3.655e-001	3.299e-001	3.551e-001
0.3	3.785e-001	4.433e-001	3.635e-001	3.466e-001	3.604e-001
0.4	3.557e-001	4.112e-001	3.277e-001	3.373e-001	3.466e-001
0.5	3.289e-001	3.691e-001	3.023e-001	3.188e-001	3.256e-001
0.75	2.538e-001	2.671e-001	2.279e-001	2.636e-001	2.568e-001
1	1.983e-001	2.056e-001	1.785e-001	2.068e-001	2.023e-001
1.5	1.357e-001	1.442e-001	1.156e-001	1.507e-001	1.325e-001
2	1.026e-001	1.044e-001	8.791e-002	1.197e-001	9.828e-002
3	6.610e-002	6.517e-002	6.068e-002	7.924e-002	5.930e-002
4	4.419e-002	4.559e-002	4.256e-002	5.317e-002	3.542e-002
5	3.034e-002	3.340e-002	3.002e-002	3.643e-002	2.151e-002
7.5	1.364e-002	1.799e-002	1.306e-002	1.525e-002	8.270e-003
10	7.541e-003	1.167e-002	6.551e-003	7.870e-003	4.072e-003

Source: Great Salt Lake fault zone, Fremont Island s [2369b]
Region: USGS 2014 Utah
Closest Distance: 34.04 km
Amplitude Units: Acceleration (g)
Magnitude: 6.83 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.811e-001	2.019e-001	1.998e-001	1.600e-001	1.628e-001
0.02	1.819e-001	2.045e-001	1.978e-001	1.621e-001	1.632e-001
0.03	1.873e-001	2.082e-001	2.054e-001	1.666e-001	1.689e-001
0.05	2.153e-001	2.327e-001	2.414e-001	1.924e-001	1.949e-001
0.075	2.686e-001	2.827e-001	3.001e-001	2.427e-001	2.489e-001
0.1	3.247e-001	3.481e-001	3.447e-001	3.046e-001	3.012e-001
0.15	4.132e-001	4.981e-001	4.214e-001	3.630e-001	3.703e-001
0.2	4.711e-001	5.756e-001	4.764e-001	4.097e-001	4.228e-001
0.25	4.931e-001	5.898e-001	4.863e-001	4.424e-001	4.539e-001
0.3	4.977e-001	5.802e-001	4.810e-001	4.682e-001	4.613e-001
0.4	4.679e-001	5.393e-001	4.328e-001	4.553e-001	4.442e-001
0.5	4.339e-001	4.851e-001	4.014e-001	4.315e-001	4.175e-001

0.75	3.367e-001	3.500e-001	3.054e-001	3.620e-001	3.295e-001
1	2.622e-001	2.690e-001	2.383e-001	2.819e-001	2.598e-001
1.5	1.780e-001	1.883e-001	1.513e-001	2.023e-001	1.703e-001
2	1.351e-001	1.378e-001	1.150e-001	1.602e-001	1.273e-001
3	8.779e-002	8.660e-002	8.008e-002	1.068e-001	7.771e-002
4	5.823e-002	5.901e-002	5.636e-002	7.114e-002	4.643e-002
5	3.994e-002	4.322e-002	3.968e-002	4.880e-002	2.809e-002
7.5	1.786e-002	2.341e-002	1.696e-002	2.044e-002	1.063e-002
10	9.875e-003	1.529e-002	8.326e-003	1.071e-002	5.179e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.221e-001	1.338e-001	1.345e-001	1.085e-001	1.114e-001
0.02	1.224e-001	1.356e-001	1.327e-001	1.098e-001	1.115e-001
0.03	1.256e-001	1.386e-001	1.367e-001	1.123e-001	1.149e-001
0.05	1.434e-001	1.554e-001	1.571e-001	1.286e-001	1.324e-001
0.075	1.778e-001	1.895e-001	1.925e-001	1.601e-001	1.691e-001
0.1	2.149e-001	2.338e-001	2.213e-001	2.002e-001	2.043e-001
0.15	2.754e-001	3.351e-001	2.761e-001	2.405e-001	2.499e-001
0.2	3.155e-001	3.864e-001	3.191e-001	2.727e-001	2.839e-001
0.25	3.303e-001	3.943e-001	3.283e-001	2.954e-001	3.031e-001
0.3	3.320e-001	3.854e-001	3.258e-001	3.099e-001	3.067e-001
0.4	3.098e-001	3.551e-001	2.921e-001	2.988e-001	2.933e-001
0.5	2.851e-001	3.181e-001	2.676e-001	2.806e-001	2.742e-001
0.75	2.183e-001	2.278e-001	2.000e-001	2.309e-001	2.143e-001
1	1.689e-001	1.738e-001	1.550e-001	1.791e-001	1.679e-001
1.5	1.141e-001	1.209e-001	9.825e-002	1.282e-001	1.092e-001
2	8.640e-002	8.803e-002	7.443e-002	1.017e-001	8.141e-002
3	5.608e-002	5.542e-002	5.147e-002	6.775e-002	4.966e-002
4	3.730e-002	3.787e-002	3.609e-002	4.554e-002	2.969e-002
5	2.556e-002	2.772e-002	2.540e-002	3.114e-002	1.798e-002
7.5	1.144e-002	1.499e-002	1.092e-002	1.302e-002	6.817e-003
10	6.334e-003	9.760e-003	5.425e-003	6.827e-003	3.326e-003

Source: Wasatch fault, Brigham City section [2351d]
Region: USGS 2014 Utah
Closest Distance: 34.91 km
Amplitude Units: Acceleration (g)
Magnitude: 6.95 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.941e-001	2.099e-001	2.156e-001	1.701e-001	1.805e-001
0.02	1.948e-001	2.125e-001	2.133e-001	1.725e-001	1.811e-001
0.03	2.005e-001	2.161e-001	2.213e-001	1.775e-001	1.871e-001
0.05	2.299e-001	2.408e-001	2.593e-001	2.046e-001	2.150e-001
0.075	2.856e-001	2.918e-001	3.208e-001	2.561e-001	2.737e-001
0.1	3.439e-001	3.588e-001	3.664e-001	3.198e-001	3.305e-001
0.15	4.352e-001	5.144e-001	4.446e-001	3.765e-001	4.054e-001
0.2	4.969e-001	5.966e-001	5.020e-001	4.261e-001	4.630e-001
0.25	5.217e-001	6.144e-001	5.130e-001	4.617e-001	4.979e-001
0.3	5.289e-001	6.075e-001	5.086e-001	4.927e-001	5.069e-001
0.4	5.005e-001	5.695e-001	4.602e-001	4.827e-001	4.896e-001
0.5	4.665e-001	5.149e-001	4.294e-001	4.603e-001	4.612e-001
0.75	3.656e-001	3.763e-001	3.290e-001	3.921e-001	3.649e-001
1	2.856e-001	2.913e-001	2.589e-001	3.035e-001	2.885e-001
1.5	1.960e-001	2.056e-001	1.678e-001	2.210e-001	1.897e-001
2	1.543e-001	1.562e-001	1.337e-001	1.809e-001	1.465e-001
3	1.056e-001	1.039e-001	9.943e-002	1.258e-001	9.314e-002
4	7.234e-002	7.459e-002	7.234e-002	8.549e-002	5.695e-002
5	5.055e-002	5.598e-002	5.199e-002	5.906e-002	3.516e-002
7.5	2.322e-002	3.101e-002	2.291e-002	2.527e-002	1.371e-002
10	1.307e-002	2.068e-002	1.154e-002	1.321e-002	6.849e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.310e-001	1.394e-001	1.452e-001	1.155e-001	1.237e-001
0.02	1.313e-001	1.412e-001	1.431e-001	1.169e-001	1.239e-001

0.03	1.347e-001	1.442e-001	1.473e-001	1.198e-001	1.275e-001
0.05	1.533e-001	1.612e-001	1.688e-001	1.370e-001	1.464e-001
0.075	1.894e-001	1.961e-001	2.058e-001	1.692e-001	1.865e-001
0.1	2.280e-001	2.415e-001	2.352e-001	2.106e-001	2.248e-001
0.15	2.907e-001	3.469e-001	2.914e-001	2.500e-001	2.744e-001
0.2	3.334e-001	4.016e-001	3.363e-001	2.842e-001	3.117e-001
0.25	3.501e-001	4.118e-001	3.463e-001	3.088e-001	3.334e-001
0.3	3.534e-001	4.045e-001	3.445e-001	3.266e-001	3.379e-001
0.4	3.318e-001	3.758e-001	3.106e-001	3.171e-001	3.239e-001
0.5	3.069e-001	3.384e-001	2.863e-001	2.995e-001	3.034e-001
0.75	2.372e-001	2.454e-001	2.155e-001	2.502e-001	2.376e-001
1	1.841e-001	1.886e-001	1.684e-001	1.928e-001	1.866e-001
1.5	1.258e-001	1.323e-001	1.090e-001	1.400e-001	1.217e-001
2	9.875e-002	9.992e-002	8.651e-002	1.149e-001	9.368e-002
3	6.746e-002	6.656e-002	6.391e-002	7.984e-002	5.953e-002
4	4.635e-002	4.793e-002	4.632e-002	5.473e-002	3.642e-002
5	3.235e-002	3.594e-002	3.328e-002	3.769e-002	2.250e-002
7.5	1.488e-002	1.987e-002	1.476e-002	1.610e-002	8.789e-003
10	8.389e-003	1.322e-002	7.520e-003	8.418e-003	4.398e-003

Source: Oquirrh-Southern Oquirrh Mountains fault [2398_2399]
Region: USGS 2014 Utah
Closest Distance: 44.03 km
Amplitude Units: Acceleration (g)
Magnitude: 7.17 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.778e-001	1.947e-001	1.967e-001	1.516e-001	1.683e-001
0.02	1.783e-001	1.970e-001	1.938e-001	1.537e-001	1.686e-001
0.03	1.831e-001	2.006e-001	2.003e-001	1.581e-001	1.735e-001
0.05	2.089e-001	2.238e-001	2.323e-001	1.809e-001	1.988e-001
0.075	2.578e-001	2.708e-001	2.849e-001	2.231e-001	2.526e-001
0.1	3.093e-001	3.325e-001	3.236e-001	2.761e-001	3.049e-001
0.15	3.906e-001	4.781e-001	3.903e-001	3.199e-001	3.740e-001
0.2	4.477e-001	5.587e-001	4.415e-001	3.628e-001	4.276e-001
0.25	4.739e-001	5.806e-001	4.538e-001	4.004e-001	4.606e-001
0.3	4.837e-001	5.787e-001	4.521e-001	4.340e-001	4.701e-001
0.4	4.616e-001	5.525e-001	4.123e-001	4.259e-001	4.557e-001
0.5	4.334e-001	5.065e-001	3.868e-001	4.094e-001	4.308e-001
0.75	3.437e-001	3.786e-001	2.983e-001	3.545e-001	3.434e-001
1	2.697e-001	2.958e-001	2.356e-001	2.740e-001	2.734e-001
1.5	1.891e-001	2.112e-001	1.568e-001	2.061e-001	1.824e-001
2	1.443e-001	1.556e-001	1.222e-001	1.626e-001	1.369e-001
3	9.587e-002	9.988e-002	8.931e-002	1.096e-001	8.472e-002
4	6.635e-002	7.166e-002	6.641e-002	7.489e-002	5.242e-002
5	4.724e-002	5.513e-002	4.881e-002	5.205e-002	3.297e-002
7.5	2.307e-002	3.323e-002	2.266e-002	2.306e-002	1.333e-002
10	1.331e-002	2.295e-002	1.169e-002	1.177e-002	6.810e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.199e-001	1.292e-001	1.324e-001	1.027e-001	1.152e-001
0.02	1.200e-001	1.309e-001	1.301e-001	1.039e-001	1.153e-001
0.03	1.229e-001	1.337e-001	1.333e-001	1.064e-001	1.181e-001
0.05	1.391e-001	1.496e-001	1.512e-001	1.207e-001	1.351e-001
0.075	1.708e-001	1.816e-001	1.828e-001	1.470e-001	1.717e-001
0.1	2.048e-001	2.233e-001	2.078e-001	1.812e-001	2.069e-001
0.15	2.604e-001	3.217e-001	2.557e-001	2.117e-001	2.525e-001
0.2	2.999e-001	3.754e-001	2.958e-001	2.412e-001	2.872e-001
0.25	3.175e-001	3.887e-001	3.064e-001	2.670e-001	3.078e-001
0.3	3.227e-001	3.850e-001	3.062e-001	2.869e-001	3.127e-001
0.4	3.058e-001	3.646e-001	2.783e-001	2.793e-001	3.011e-001
0.5	2.850e-001	3.329e-001	2.578e-001	2.661e-001	2.831e-001
0.75	2.230e-001	2.471e-001	1.954e-001	2.261e-001	2.234e-001
1	1.739e-001	1.916e-001	1.532e-001	1.740e-001	1.767e-001
1.5	1.213e-001	1.359e-001	1.019e-001	1.306e-001	1.170e-001
2	9.236e-002	9.960e-002	7.908e-002	1.032e-001	8.754e-002
3	6.128e-002	6.402e-002	5.740e-002	6.955e-002	5.414e-002
4	4.251e-002	4.607e-002	4.252e-002	4.794e-002	3.352e-002
5	3.025e-002	3.542e-002	3.124e-002	3.322e-002	2.111e-002
7.5	1.479e-002	2.131e-002	1.460e-002	1.469e-002	8.550e-003
10	8.542e-003	1.468e-002	7.617e-003	7.502e-003	4.373e-003

Source: East Cache fault zone [2352abc]
Region: USGS 2014 Utah
Closest Distance: 48.97 km
Amplitude Units: Acceleration (g)
Magnitude: 7.31 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.723e-001	1.932e-001	1.887e-001	1.444e-001	1.650e-001
0.02	1.726e-001	1.954e-001	1.856e-001	1.464e-001	1.652e-001
0.03	1.770e-001	1.988e-001	1.912e-001	1.506e-001	1.695e-001
0.05	2.010e-001	2.215e-001	2.200e-001	1.712e-001	1.935e-001
0.075	2.468e-001	2.674e-001	2.682e-001	2.091e-001	2.453e-001
0.1	2.951e-001	3.277e-001	3.033e-001	2.570e-001	2.959e-001
0.15	3.723e-001	4.721e-001	3.642e-001	2.946e-001	3.631e-001
0.2	4.279e-001	5.544e-001	4.129e-001	3.344e-001	4.156e-001
0.25	4.556e-001	5.799e-001	4.261e-001	3.735e-001	4.485e-001
0.3	4.674e-001	5.814e-001	4.261e-001	4.089e-001	4.589e-001
0.4	4.491e-001	5.619e-001	3.910e-001	4.021e-001	4.465e-001
0.5	4.238e-001	5.194e-001	3.683e-001	3.887e-001	4.235e-001
0.75	3.388e-001	3.934e-001	2.856e-001	3.398e-001	3.399e-001
1	2.669e-001	3.092e-001	2.263e-001	2.628e-001	2.720e-001
1.5	1.898e-001	2.225e-001	1.535e-001	2.021e-001	1.833e-001
2	1.441e-001	1.638e-001	1.190e-001	1.574e-001	1.374e-001
3	9.711e-002	1.057e-001	8.779e-002	1.084e-001	8.658e-002
4	6.861e-002	7.672e-002	6.706e-002	7.587e-002	5.478e-002
5	4.973e-002	5.973e-002	5.034e-002	5.379e-002	3.507e-002
7.5	2.505e-002	3.690e-002	2.429e-002	2.447e-002	1.455e-002
10	1.485e-002	2.662e-002	1.281e-002	1.238e-002	7.569e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.161e-001	1.282e-001	1.270e-001	9.771e-002	1.129e-001
0.02	1.162e-001	1.298e-001	1.245e-001	9.889e-002	1.129e-001
0.03	1.187e-001	1.325e-001	1.273e-001	1.012e-001	1.153e-001
0.05	1.338e-001	1.480e-001	1.432e-001	1.141e-001	1.314e-001
0.075	1.634e-001	1.792e-001	1.720e-001	1.376e-001	1.666e-001
0.1	1.954e-001	2.200e-001	1.947e-001	1.684e-001	2.007e-001
0.15	2.481e-001	3.175e-001	2.387e-001	1.946e-001	2.449e-001
0.2	2.865e-001	3.724e-001	2.766e-001	2.220e-001	2.789e-001
0.25	3.051e-001	3.882e-001	2.877e-001	2.488e-001	2.995e-001
0.3	3.117e-001	3.869e-001	2.886e-001	2.701e-001	3.051e-001
0.4	2.974e-001	3.709e-001	2.639e-001	2.635e-001	2.949e-001
0.5	2.787e-001	3.415e-001	2.456e-001	2.525e-001	2.782e-001
0.75	2.199e-001	2.568e-001	1.870e-001	2.167e-001	2.212e-001
1	1.721e-001	2.003e-001	1.472e-001	1.669e-001	1.758e-001
1.5	1.218e-001	1.432e-001	9.969e-002	1.280e-001	1.176e-001
2	9.221e-002	1.048e-001	7.702e-002	9.994e-002	8.786e-002
3	6.207e-002	6.773e-002	5.643e-002	6.880e-002	5.534e-002
4	4.396e-002	4.932e-002	4.294e-002	4.857e-002	3.503e-002
5	3.184e-002	3.837e-002	3.222e-002	3.433e-002	2.245e-002
7.5	1.606e-002	2.366e-002	1.565e-002	1.559e-002	9.331e-003
10	9.531e-003	1.702e-002	8.350e-003	7.891e-003	4.860e-003

Source: Great Salt Lake fault zone, Promontory secti [2369a]
Region: USGS 2014 Utah
Closest Distance: 51.87 km
Amplitude Units: Acceleration (g)
Magnitude: 7.09 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.430e-001	1.597e-001	1.572e-001	1.229e-001	1.321e-001
0.02	1.433e-001	1.618e-001	1.548e-001	1.245e-001	1.321e-001
0.03	1.473e-001	1.655e-001	1.597e-001	1.279e-001	1.360e-001
0.05	1.682e-001	1.860e-001	1.845e-001	1.462e-001	1.563e-001
0.075	2.082e-001	2.261e-001	2.266e-001	1.808e-001	1.992e-001
0.1	2.508e-001	2.781e-001	2.594e-001	2.247e-001	2.409e-001

0.15	3.185e-001	3.994e-001	3.167e-001	2.620e-001	2.959e-001
0.2	3.656e-001	4.663e-001	3.608e-001	2.969e-001	3.383e-001
0.25	3.876e-001	4.842e-001	3.725e-001	3.298e-001	3.639e-001
0.3	3.953e-001	4.814e-001	3.714e-001	3.574e-001	3.712e-001
0.4	3.760e-001	4.598e-001	3.380e-001	3.469e-001	3.591e-001
0.5	3.521e-001	4.228e-001	3.153e-001	3.313e-001	3.389e-001
0.75	2.776e-001	3.144e-001	2.415e-001	2.845e-001	2.699e-001
1	2.163e-001	2.437e-001	1.887e-001	2.183e-001	2.147e-001
1.5	1.506e-001	1.728e-001	1.231e-001	1.627e-001	1.439e-001
2	1.109e-001	1.232e-001	9.173e-002	1.235e-001	1.053e-001
3	7.082e-002	7.563e-002	6.356e-002	8.045e-002	6.366e-002
4	4.843e-002	5.362e-002	4.651e-002	5.447e-002	3.913e-002
5	3.430e-002	4.108e-002	3.390e-002	3.775e-002	2.444e-002
7.5	1.661e-002	2.448e-002	1.555e-002	1.668e-002	9.733e-003
10	9.534e-003	1.679e-002	7.884e-003	8.568e-003	4.894e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	9.614e-002	1.057e-001	1.058e-001	8.290e-002	9.010e-002
0.02	9.622e-002	1.072e-001	1.038e-001	8.379e-002	9.004e-002
0.03	9.855e-002	1.100e-001	1.063e-001	8.568e-002	9.223e-002
0.05	1.117e-001	1.238e-001	1.201e-001	9.702e-002	1.057e-001
0.075	1.373e-001	1.508e-001	1.453e-001	1.185e-001	1.346e-001
0.1	1.653e-001	1.857e-001	1.665e-001	1.467e-001	1.624e-001
0.15	2.114e-001	2.671e-001	2.075e-001	1.724e-001	1.984e-001
0.2	2.439e-001	3.116e-001	2.417e-001	1.963e-001	2.258e-001
0.25	2.587e-001	3.227e-001	2.515e-001	2.189e-001	2.417e-001
0.3	2.629e-001	3.191e-001	2.516e-001	2.354e-001	2.456e-001
0.4	2.485e-001	3.027e-001	2.282e-001	2.269e-001	2.362e-001
0.5	2.311e-001	2.773e-001	2.102e-001	2.149e-001	2.218e-001
0.75	1.799e-001	2.048e-001	1.582e-001	1.813e-001	1.752e-001
1	1.394e-001	1.577e-001	1.227e-001	1.385e-001	1.385e-001
1.5	9.660e-002	1.112e-001	7.998e-002	1.030e-001	9.223e-002
2	7.099e-002	7.883e-002	5.935e-002	7.843e-002	6.733e-002
3	4.527e-002	4.848e-002	4.085e-002	5.105e-002	4.068e-002
4	3.104e-002	3.447e-002	2.978e-002	3.487e-002	2.502e-002
5	2.196e-002	2.639e-002	2.170e-002	2.409e-002	1.564e-002
7.5	1.064e-002	1.569e-002	1.002e-002	1.062e-002	6.242e-003
10	6.120e-003	1.074e-002	5.138e-003	5.461e-003	3.143e-003

Source: Wasatch fault, Provo section [2351g]
Region: USGS 2014 Utah
Closest Distance: 53.14 km
Amplitude Units: Acceleration (g)
Magnitude: 7.27 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.593e-001	1.753e-001	1.752e-001	1.346e-001	1.520e-001
0.02	1.596e-001	1.774e-001	1.723e-001	1.364e-001	1.522e-001
0.03	1.637e-001	1.809e-001	1.775e-001	1.403e-001	1.561e-001
0.05	1.861e-001	2.023e-001	2.040e-001	1.596e-001	1.785e-001
0.075	2.288e-001	2.447e-001	2.489e-001	1.951e-001	2.266e-001
0.1	2.740e-001	3.001e-001	2.824e-001	2.401e-001	2.735e-001
0.15	3.459e-001	4.321e-001	3.407e-001	2.754e-001	3.354e-001
0.2	3.978e-001	5.075e-001	3.871e-001	3.130e-001	3.837e-001
0.25	4.237e-001	5.308e-001	4.001e-001	3.503e-001	4.138e-001
0.3	4.345e-001	5.316e-001	4.001e-001	3.833e-001	4.231e-001
0.4	4.168e-001	5.142e-001	3.667e-001	3.752e-001	4.111e-001
0.5	3.930e-001	4.762e-001	3.447e-001	3.619e-001	3.894e-001
0.75	3.136e-001	3.599e-001	2.665e-001	3.164e-001	3.118e-001
1	2.461e-001	2.818e-001	2.103e-001	2.432e-001	2.492e-001
1.5	1.743e-001	2.021e-001	1.414e-001	1.857e-001	1.678e-001
2	1.296e-001	1.453e-001	1.077e-001	1.420e-001	1.232e-001
3	8.392e-002	9.064e-002	7.712e-002	9.327e-002	7.466e-002
4	5.830e-002	6.498e-002	5.799e-002	6.381e-002	4.644e-002
5	4.185e-002	5.027e-002	4.314e-002	4.448e-002	2.949e-002
7.5	2.098e-002	3.107e-002	2.058e-002	2.015e-002	1.212e-002
10	1.238e-002	2.236e-002	1.074e-002	1.020e-002	6.238e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014

Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.072e-001	1.162e-001	1.179e-001	9.092e-002	1.039e-001
0.02	1.073e-001	1.177e-001	1.156e-001	9.198e-002	1.039e-001
0.03	1.097e-001	1.204e-001	1.181e-001	9.415e-002	1.061e-001
0.05	1.237e-001	1.349e-001	1.328e-001	1.062e-001	1.211e-001
0.075	1.512e-001	1.636e-001	1.597e-001	1.281e-001	1.536e-001
0.1	1.811e-001	2.009e-001	1.813e-001	1.571e-001	1.850e-001
0.15	2.301e-001	2.898e-001	2.233e-001	1.816e-001	2.257e-001
0.2	2.659e-001	3.400e-001	2.593e-001	2.074e-001	2.569e-001
0.25	2.833e-001	3.545e-001	2.701e-001	2.329e-001	2.757e-001
0.3	2.894e-001	3.531e-001	2.710e-001	2.529e-001	2.807e-001
0.4	2.758e-001	3.390e-001	2.475e-001	2.457e-001	2.710e-001
0.5	2.582e-001	3.127e-001	2.298e-001	2.350e-001	2.554e-001
0.75	2.034e-001	2.348e-001	1.745e-001	2.016e-001	2.027e-001
1	1.587e-001	1.825e-001	1.368e-001	1.544e-001	1.610e-001
1.5	1.118e-001	1.301e-001	9.185e-002	1.176e-001	1.076e-001
2	8.292e-002	9.302e-002	6.970e-002	9.017e-002	7.878e-002
3	5.364e-002	5.810e-002	4.957e-002	5.919e-002	4.771e-002
4	3.736e-002	4.177e-002	3.713e-002	4.085e-002	2.970e-002
5	2.679e-002	3.229e-002	2.762e-002	2.839e-002	1.888e-002
7.5	1.345e-002	1.992e-002	1.326e-002	1.283e-002	7.770e-003
10	7.951e-003	1.430e-002	6.996e-003	6.503e-003	4.006e-003

Source: West Cache fault, Wellsville section [2521c]
Region: USGS 2014 Utah
Closest Distance: 65.56 km
Amplitude Units: Acceleration (g)
Magnitude: 6.60 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	8.253e-002	9.191e-002	9.396e-002	7.793e-002	7.217e-002
0.02	8.273e-002	9.325e-002	9.277e-002	7.869e-002	7.211e-002
0.03	8.523e-002	9.625e-002	9.589e-002	8.073e-002	7.424e-002
0.05	9.785e-002	1.097e-001	1.110e-001	9.342e-002	8.576e-002
0.075	1.225e-001	1.344e-001	1.384e-001	1.183e-001	1.095e-001
0.1	1.500e-001	1.654e-001	1.632e-001	1.509e-001	1.320e-001
0.15	1.934e-001	2.348e-001	2.081e-001	1.816e-001	1.617e-001
0.2	2.232e-001	2.719e-001	2.412e-001	2.066e-001	1.857e-001
0.25	2.368e-001	2.803e-001	2.504e-001	2.289e-001	2.001e-001
0.3	2.404e-001	2.734e-001	2.491e-001	2.466e-001	2.044e-001
0.4	2.245e-001	2.561e-001	2.239e-001	2.308e-001	1.978e-001
0.5	2.071e-001	2.322e-001	2.049e-001	2.144e-001	1.862e-001
0.75	1.591e-001	1.618e-001	1.536e-001	1.811e-001	1.467e-001
1	1.202e-001	1.194e-001	1.165e-001	1.346e-001	1.155e-001
1.5	7.902e-002	8.046e-002	7.016e-002	9.255e-002	7.607e-002
2	5.548e-002	5.507e-002	4.871e-002	6.649e-002	5.390e-002
3	3.281e-002	3.105e-002	3.053e-002	4.023e-002	2.942e-002
4	2.100e-002	2.049e-002	2.072e-002	2.579e-002	1.698e-002
5	1.405e-002	1.481e-002	1.428e-002	1.708e-002	1.003e-002
7.5	6.223e-003	8.251e-003	5.888e-003	7.127e-003	3.626e-003
10	3.442e-003	5.484e-003	2.751e-003	3.835e-003	1.697e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	5.518e-002	6.028e-002	6.325e-002	5.220e-002	4.892e-002
0.02	5.522e-002	6.118e-002	6.225e-002	5.260e-002	4.883e-002
0.03	5.666e-002	6.325e-002	6.383e-002	5.368e-002	5.003e-002
0.05	6.445e-002	7.206e-002	7.224e-002	6.148e-002	5.753e-002
0.075	8.009e-002	8.831e-002	8.875e-002	7.687e-002	7.324e-002
0.1	9.791e-002	1.087e-001	1.048e-001	9.771e-002	8.798e-002
0.15	1.271e-001	1.545e-001	1.364e-001	1.185e-001	1.072e-001
0.2	1.475e-001	1.789e-001	1.616e-001	1.355e-001	1.225e-001
0.25	1.568e-001	1.842e-001	1.691e-001	1.509e-001	1.316e-001
0.3	1.588e-001	1.790e-001	1.688e-001	1.615e-001	1.340e-001
0.4	1.476e-001	1.669e-001	1.511e-001	1.504e-001	1.291e-001
0.5	1.352e-001	1.509e-001	1.366e-001	1.387e-001	1.211e-001
0.75	1.027e-001	1.045e-001	1.006e-001	1.152e-001	9.478e-002
1	7.718e-002	7.672e-002	7.579e-002	8.537e-002	7.426e-002
1.5	5.056e-002	5.146e-002	4.557e-002	5.860e-002	4.866e-002
2	3.545e-002	3.509e-002	3.152e-002	4.222e-002	3.442e-002
3	2.094e-002	1.983e-002	1.962e-002	2.553e-002	1.879e-002

4	1.344e-002	1.312e-002	1.327e-002	1.651e-002	1.086e-002
5	8.984e-003	9.477e-003	9.140e-003	1.090e-002	6.422e-003
7.5	3.982e-003	5.270e-003	3.793e-003	4.539e-003	2.325e-003
10	2.205e-003	3.494e-003	1.793e-003	2.444e-003	1.090e-003

Source: Stansbury fault zone [2395]
Region: USGS 2014 Utah
Closest Distance: 72.14 km
Amplitude Units: Acceleration (g)
Magnitude: 7.09 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.037e-001	1.135e-001	1.126e-001	9.179e-002	9.687e-002
0.02	1.038e-001	1.150e-001	1.106e-001	9.284e-002	9.673e-002
0.03	1.065e-001	1.182e-001	1.136e-001	9.526e-002	9.893e-002
0.05	1.210e-001	1.336e-001	1.289e-001	1.083e-001	1.132e-001
0.075	1.490e-001	1.623e-001	1.573e-001	1.329e-001	1.437e-001
0.1	1.797e-001	1.989e-001	1.816e-001	1.651e-001	1.732e-001
0.15	2.286e-001	2.853e-001	2.256e-001	1.913e-001	2.124e-001
0.2	2.646e-001	3.359e-001	2.610e-001	2.177e-001	2.436e-001
0.25	2.838e-001	3.529e-001	2.733e-001	2.461e-001	2.631e-001
0.3	2.920e-001	3.536e-001	2.749e-001	2.700e-001	2.698e-001
0.4	2.802e-001	3.459e-001	2.524e-001	2.597e-001	2.628e-001
0.5	2.641e-001	3.236e-001	2.357e-001	2.477e-001	2.493e-001
0.75	2.097e-001	2.426e-001	1.810e-001	2.150e-001	2.003e-001
1	1.624e-001	1.871e-001	1.405e-001	1.617e-001	1.604e-001
1.5	1.134e-001	1.326e-001	9.121e-002	1.204e-001	1.093e-001
2	8.293e-002	9.441e-002	6.726e-002	8.963e-002	8.044e-002
3	5.273e-002	5.774e-002	4.626e-002	5.778e-002	4.915e-002
4	3.600e-002	4.095e-002	3.393e-002	3.881e-002	3.030e-002
5	2.543e-002	3.140e-002	2.476e-002	2.661e-002	1.894e-002
7.5	1.256e-002	1.927e-002	1.145e-002	1.196e-002	7.551e-003
10	7.339e-003	1.355e-002	5.804e-003	6.210e-003	3.797e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.954e-002	7.492e-002	7.580e-002	6.161e-002	6.585e-002
0.02	6.951e-002	7.595e-002	7.421e-002	6.219e-002	6.568e-002
0.03	7.104e-002	7.821e-002	7.560e-002	6.348e-002	6.685e-002
0.05	8.000e-002	8.843e-002	8.391e-002	7.147e-002	7.620e-002
0.075	9.786e-002	1.075e-001	1.009e-001	8.660e-002	9.649e-002
0.1	1.179e-001	1.317e-001	1.166e-001	1.072e-001	1.160e-001
0.15	1.509e-001	1.893e-001	1.478e-001	1.251e-001	1.414e-001
0.2	1.756e-001	2.229e-001	1.748e-001	1.432e-001	1.615e-001
0.25	1.886e-001	2.338e-001	1.845e-001	1.626e-001	1.737e-001
0.3	1.935e-001	2.332e-001	1.862e-001	1.771e-001	1.776e-001
0.4	1.847e-001	2.270e-001	1.704e-001	1.694e-001	1.721e-001
0.5	1.729e-001	2.117e-001	1.571e-001	1.603e-001	1.626e-001
0.75	1.357e-001	1.577e-001	1.185e-001	1.368e-001	1.297e-001
1	1.046e-001	1.209e-001	9.142e-002	1.026e-001	1.034e-001
1.5	7.266e-002	8.521e-002	5.924e-002	7.622e-002	6.997e-002
2	5.305e-002	6.039e-002	4.352e-002	5.691e-002	5.139e-002
3	3.371e-002	3.701e-002	2.974e-002	3.667e-002	3.141e-002
4	2.307e-002	2.633e-002	2.172e-002	2.484e-002	1.937e-002
5	1.628e-002	2.017e-002	1.585e-002	1.698e-002	1.213e-002
7.5	8.048e-003	1.235e-002	7.379e-003	7.617e-003	4.842e-003
10	4.710e-003	8.663e-003	3.782e-003	3.958e-003	2.438e-003

Source: Bear River fault zone [730]
Region: USGS 2014 Wyoming
Closest Distance: 72.48 km
Amplitude Units: Acceleration (g)
Magnitude: 6.90 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6

PGA	9.185e-002	9.807e-002	1.025e-001	8.283e-002	8.398e-002
0.02	9.198e-002	9.944e-002	1.009e-001	8.372e-002	8.388e-002
0.03	9.455e-002	1.025e-001	1.038e-001	8.591e-002	8.597e-002
0.05	1.080e-001	1.163e-001	1.186e-001	9.831e-002	9.879e-002
0.075	1.339e-001	1.419e-001	1.459e-001	1.222e-001	1.258e-001
0.1	1.623e-001	1.743e-001	1.699e-001	1.533e-001	1.516e-001
0.15	2.072e-001	2.489e-001	2.136e-001	1.804e-001	1.857e-001
0.2	2.393e-001	2.915e-001	2.476e-001	2.050e-001	2.130e-001
0.25	2.557e-001	3.043e-001	2.586e-001	2.300e-001	2.298e-001
0.3	2.619e-001	3.028e-001	2.592e-001	2.502e-001	2.353e-001
0.4	2.492e-001	2.933e-001	2.363e-001	2.387e-001	2.285e-001
0.5	2.331e-001	2.727e-001	2.189e-001	2.248e-001	2.161e-001
0.75	1.831e-001	2.007e-001	1.666e-001	1.932e-001	1.721e-001
1	1.406e-001	1.530e-001	1.282e-001	1.441e-001	1.369e-001
1.5	9.610e-002	1.072e-001	8.079e-002	1.043e-001	9.217e-002
2	6.923e-002	7.545e-002	5.817e-002	7.643e-002	6.687e-002
3	4.288e-002	4.518e-002	3.858e-002	4.804e-002	3.971e-002
4	2.859e-002	3.140e-002	2.746e-002	3.166e-002	2.386e-002
5	1.970e-002	2.320e-002	1.960e-002	2.139e-002	1.461e-002
7.5	9.303e-003	1.356e-002	8.674e-003	9.357e-003	5.616e-003
10	5.329e-003	9.376e-003	4.258e-003	4.932e-003	2.748e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.153e-002	6.458e-002	6.902e-002	5.552e-002	5.701e-002
0.02	6.152e-002	6.551e-002	6.769e-002	5.601e-002	5.687e-002
0.03	6.298e-002	6.762e-002	6.912e-002	5.717e-002	5.801e-002
0.05	7.128e-002	7.677e-002	7.721e-002	6.476e-002	6.638e-002
0.075	8.775e-002	9.365e-002	9.357e-002	7.947e-002	8.431e-002
0.1	1.062e-001	1.150e-001	1.091e-001	9.936e-002	1.013e-001
0.15	1.364e-001	1.646e-001	1.399e-001	1.178e-001	1.233e-001
0.2	1.585e-001	1.927e-001	1.658e-001	1.346e-001	1.408e-001
0.25	1.697e-001	2.009e-001	1.746e-001	1.517e-001	1.514e-001
0.3	1.733e-001	1.991e-001	1.756e-001	1.640e-001	1.545e-001
0.4	1.641e-001	1.920e-001	1.595e-001	1.556e-001	1.493e-001
0.5	1.525e-001	1.779e-001	1.459e-001	1.454e-001	1.407e-001
0.75	1.184e-001	1.302e-001	1.091e-001	1.229e-001	1.113e-001
1	9.040e-002	9.866e-002	8.339e-002	9.141e-002	8.815e-002
1.5	6.156e-002	6.877e-002	5.248e-002	6.602e-002	5.899e-002
2	4.427e-002	4.821e-002	3.764e-002	4.853e-002	4.271e-002
3	2.740e-002	2.893e-002	2.480e-002	3.048e-002	2.537e-002
4	1.832e-002	2.017e-002	1.758e-002	2.027e-002	1.526e-002
5	1.261e-002	1.489e-002	1.255e-002	1.365e-002	9.352e-003
7.5	5.959e-003	8.688e-003	5.588e-003	5.960e-003	3.601e-003
10	3.418e-003	5.990e-003	2.775e-003	3.144e-003	1.765e-003

Source: West Cache fault zone, Junction Hills fault [2521b]
Region: USGS 2014 Utah
Closest Distance: 78.34 km
Amplitude Units: Acceleration (g)
Magnitude: 6.70 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	7.235e-002	7.699e-002	8.057e-002	6.873e-002	6.355e-002
0.02	7.245e-002	7.809e-002	7.938e-002	6.937e-002	6.342e-002
0.03	7.449e-002	8.067e-002	8.171e-002	7.110e-002	6.496e-002
0.05	8.517e-002	9.195e-002	9.313e-002	8.159e-002	7.459e-002
0.075	1.060e-001	1.123e-001	1.151e-001	1.023e-001	9.481e-002
0.1	1.293e-001	1.379e-001	1.359e-001	1.300e-001	1.141e-001
0.15	1.660e-001	1.959e-001	1.743e-001	1.553e-001	1.398e-001
0.2	1.925e-001	2.287e-001	2.040e-001	1.773e-001	1.610e-001
0.25	2.059e-001	2.383e-001	2.141e-001	1.981e-001	1.743e-001
0.3	2.108e-001	2.359e-001	2.149e-001	2.144e-001	1.791e-001
0.4	1.998e-001	2.277e-001	1.954e-001	2.025e-001	1.746e-001
0.5	1.863e-001	2.109e-001	1.801e-001	1.894e-001	1.655e-001
0.75	1.452e-001	1.518e-001	1.362e-001	1.615e-001	1.320e-001
1	1.104e-001	1.139e-001	1.038e-001	1.194e-001	1.049e-001
1.5	7.395e-002	7.851e-002	6.348e-002	8.380e-002	7.029e-002
2	5.233e-002	5.450e-002	4.451e-002	6.001e-002	5.050e-002
3	3.131e-002	3.107e-002	2.838e-002	3.666e-002	2.925e-002
4	2.027e-002	2.072e-002	1.958e-002	2.364e-002	1.714e-002
5	1.368e-002	1.510e-002	1.367e-002	1.568e-002	1.026e-002
7.5	6.232e-003	8.669e-003	5.784e-003	6.688e-003	3.787e-003
10	3.509e-003	5.906e-003	2.742e-003	3.589e-003	1.800e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	4.836e-002	5.050e-002	5.424e-002	4.598e-002	4.303e-002
0.02	4.835e-002	5.124e-002	5.326e-002	4.631e-002	4.290e-002
0.03	4.950e-002	5.301e-002	5.439e-002	4.721e-002	4.372e-002
0.05	5.605e-002	6.038e-002	6.062e-002	5.361e-002	4.997e-002
0.075	6.919e-002	7.372e-002	7.384e-002	6.638e-002	6.329e-002
0.1	8.427e-002	9.045e-002	8.724e-002	8.406e-002	7.588e-002
0.15	1.090e-001	1.287e-001	1.142e-001	1.012e-001	9.245e-002
0.2	1.271e-001	1.503e-001	1.367e-001	1.161e-001	1.061e-001
0.25	1.363e-001	1.565e-001	1.446e-001	1.304e-001	1.145e-001
0.3	1.392e-001	1.544e-001	1.456e-001	1.403e-001	1.172e-001
0.4	1.314e-001	1.485e-001	1.319e-001	1.318e-001	1.138e-001
0.5	1.217e-001	1.371e-001	1.200e-001	1.224e-001	1.075e-001
0.75	9.372e-002	9.816e-002	8.922e-002	1.027e-001	8.523e-002
1	7.090e-002	7.322e-002	6.752e-002	7.573e-002	6.741e-002
1.5	4.733e-002	5.026e-002	4.123e-002	5.305e-002	4.496e-002
2	3.344e-002	3.476e-002	2.880e-002	3.810e-002	3.224e-002
3	1.999e-002	1.986e-002	1.824e-002	2.326e-002	1.869e-002
4	1.298e-002	1.328e-002	1.254e-002	1.513e-002	1.096e-002
5	8.749e-003	9.673e-003	8.748e-003	1.001e-002	6.566e-003
7.5	3.989e-003	5.543e-003	3.726e-003	4.260e-003	2.429e-003
10	2.249e-003	3.766e-003	1.787e-003	2.288e-003	1.156e-003

Source: Hansel Valley fault [2358]
Region: USGS 2014 Utah
Closest Distance: 89.90 km
Amplitude Units: Acceleration (g)
Magnitude: 6.60 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	5.957e-002	6.447e-002	6.433e-002	5.547e-002	5.402e-002
0.02	5.963e-002	6.536e-002	6.338e-002	5.590e-002	5.389e-002
0.03	6.119e-002	6.753e-002	6.513e-002	5.714e-002	5.496e-002
0.05	6.950e-002	7.688e-002	7.361e-002	6.478e-002	6.272e-002
0.075	8.617e-002	9.342e-002	9.105e-002	8.104e-002	7.917e-002
0.1	1.054e-001	1.142e-001	1.090e-001	1.038e-001	9.481e-002
0.15	1.365e-001	1.617e-001	1.423e-001	1.262e-001	1.159e-001
0.2	1.594e-001	1.896e-001	1.674e-001	1.464e-001	1.344e-001
0.25	1.720e-001	1.990e-001	1.771e-001	1.653e-001	1.464e-001
0.3	1.769e-001	1.967e-001	1.787e-001	1.811e-001	1.512e-001
0.4	1.683e-001	1.906e-001	1.633e-001	1.707e-001	1.487e-001
0.5	1.572e-001	1.764e-001	1.504e-001	1.600e-001	1.418e-001
0.75	1.225e-001	1.242e-001	1.139e-001	1.381e-001	1.138e-001
1	9.272e-002	9.145e-002	8.649e-002	1.023e-001	9.063e-002
1.5	6.143e-002	6.177e-002	5.220e-002	7.088e-002	6.088e-002
2	4.279e-002	4.221e-002	3.613e-002	4.934e-002	4.347e-002
3	2.487e-002	2.340e-002	2.257e-002	2.963e-002	2.390e-002
4	1.567e-002	1.527e-002	1.534e-002	1.856e-002	1.349e-002
5	1.037e-002	1.097e-002	1.059e-002	1.206e-002	7.918e-003
7.5	4.651e-003	6.292e-003	4.385e-003	5.106e-003	2.853e-003
10	2.604e-003	4.284e-003	2.041e-003	2.790e-003	1.336e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.977e-002	4.220e-002	4.331e-002	3.704e-002	3.654e-002
0.02	3.974e-002	4.280e-002	4.253e-002	3.724e-002	3.641e-002
0.03	4.061e-002	4.426e-002	4.335e-002	3.786e-002	3.695e-002
0.05	4.567e-002	5.034e-002	4.792e-002	4.246e-002	4.195e-002
0.075	5.618e-002	6.112e-002	5.838e-002	5.246e-002	5.275e-002
0.1	6.859e-002	7.465e-002	6.984e-002	6.692e-002	6.293e-002
0.15	8.937e-002	1.059e-001	9.304e-002	8.201e-002	7.653e-002
0.2	1.051e-001	1.243e-001	1.121e-001	9.568e-002	8.834e-002
0.25	1.136e-001	1.303e-001	1.196e-001	1.086e-001	9.593e-002
0.3	1.167e-001	1.284e-001	1.211e-001	1.183e-001	9.884e-002
0.4	1.105e-001	1.240e-001	1.102e-001	1.110e-001	9.683e-002

0.5	1.025e-001	1.145e-001	1.003e-001	1.034e-001	9.205e-002
0.75	7.901e-002	8.018e-002	7.460e-002	8.783e-002	7.341e-002
1	5.952e-002	5.870e-002	5.627e-002	6.486e-002	5.824e-002
1.5	3.930e-002	3.949e-002	3.391e-002	4.487e-002	3.892e-002
2	2.734e-002	2.689e-002	2.338e-002	3.133e-002	2.775e-002
3	1.588e-002	1.494e-002	1.451e-002	1.880e-002	1.527e-002
4	1.003e-002	9.780e-003	9.824e-003	1.188e-002	8.629e-003
5	6.632e-003	7.023e-003	6.778e-003	7.695e-003	5.068e-003
7.5	2.976e-003	4.019e-003	2.825e-003	3.252e-003	1.830e-003
10	1.668e-003	2.729e-003	1.330e-003	1.779e-003	8.582e-004

Source: Eastern Bear Lake fault [2364abc]
Region: USGS 2014 Idaho
Closest Distance: 91.43 km
Amplitude Units: Acceleration (g)
Magnitude: 7.29 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	9.242e-002	1.007e-001	9.834e-002	7.923e-002	9.144e-002
0.02	9.236e-002	1.019e-001	9.624e-002	8.014e-002	9.116e-002
0.03	9.428e-002	1.046e-001	9.819e-002	8.202e-002	9.232e-002
0.05	1.056e-001	1.177e-001	1.088e-001	9.171e-002	1.043e-001
0.075	1.282e-001	1.414e-001	1.309e-001	1.096e-001	1.310e-001
0.1	1.536e-001	1.720e-001	1.513e-001	1.340e-001	1.573e-001
0.15	1.952e-001	2.473e-001	1.887e-001	1.524e-001	1.923e-001
0.2	2.282e-001	2.960e-001	2.193e-001	1.757e-001	2.217e-001
0.25	2.492e-001	3.178e-001	2.333e-001	2.042e-001	2.414e-001
0.3	2.604e-001	3.241e-001	2.378e-001	2.299e-001	2.498e-001
0.4	2.559e-001	3.298e-001	2.226e-001	2.245e-001	2.467e-001
0.5	2.453e-001	3.160e-001	2.103e-001	2.184e-001	2.367e-001
0.75	1.994e-001	2.434e-001	1.641e-001	1.961e-001	1.939e-001
1	1.558e-001	1.892e-001	1.286e-001	1.477e-001	1.576e-001
1.5	1.114e-001	1.358e-001	8.608e-002	1.139e-001	1.100e-001
2	8.254e-002	9.799e-002	6.490e-002	8.499e-002	8.227e-002
3	5.373e-002	6.123e-002	4.626e-002	5.575e-002	5.170e-002
4	3.741e-002	4.414e-002	3.507e-002	3.788e-002	3.256e-002
5	2.684e-002	3.424e-002	2.623e-002	2.612e-002	2.078e-002
7.5	1.397e-002	2.227e-002	1.279e-002	1.226e-002	8.580e-003
10	8.547e-003	1.673e-002	6.708e-003	6.324e-003	4.432e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.195e-002	6.638e-002	6.620e-002	5.308e-002	6.212e-002
0.02	6.181e-002	6.721e-002	6.457e-002	5.359e-002	6.185e-002
0.03	6.284e-002	6.910e-002	6.536e-002	5.455e-002	6.234e-002
0.05	6.978e-002	7.775e-002	7.082e-002	6.037e-002	7.016e-002
0.075	8.411e-002	9.342e-002	8.390e-002	7.125e-002	8.786e-002
0.1	1.006e-001	1.136e-001	9.692e-002	8.679e-002	1.051e-001
0.15	1.285e-001	1.636e-001	1.233e-001	9.947e-002	1.278e-001
0.2	1.512e-001	1.960e-001	1.469e-001	1.153e-001	1.467e-001
0.25	1.654e-001	2.101e-001	1.575e-001	1.347e-001	1.591e-001
0.3	1.724e-001	2.136e-001	1.611e-001	1.506e-001	1.642e-001
0.4	1.686e-001	2.163e-001	1.502e-001	1.463e-001	1.614e-001
0.5	1.606e-001	2.067e-001	1.402e-001	1.413e-001	1.543e-001
0.75	1.290e-001	1.583e-001	1.075e-001	1.248e-001	1.255e-001
1	1.003e-001	1.222e-001	8.365e-002	9.369e-002	1.015e-001
1.5	7.143e-002	8.727e-002	5.591e-002	7.211e-002	7.043e-002
2	5.280e-002	6.268e-002	4.199e-002	5.397e-002	5.257e-002
3	3.435e-002	3.924e-002	2.973e-002	3.538e-002	3.304e-002
4	2.398e-002	2.837e-002	2.245e-002	2.425e-002	2.082e-002
5	1.719e-002	2.199e-002	1.679e-002	1.667e-002	1.330e-002
7.5	8.956e-003	1.428e-002	8.239e-003	7.806e-003	5.502e-003
10	5.486e-003	1.069e-002	4.371e-003	4.031e-003	2.846e-003

Source: North Promontory fault [2361]
Region: USGS 2014 Nevada
Closest Distance: 96.75 km
Amplitude Units: Acceleration (g)
Magnitude: 6.73 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations

Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	5.575e-002	5.851e-002	6.212e-002	5.153e-002	5.086e-002
0.02	5.576e-002	5.929e-002	6.109e-002	5.198e-002	5.067e-002
0.03	5.708e-002	6.124e-002	6.257e-002	5.306e-002	5.144e-002
0.05	6.449e-002	6.964e-002	6.985e-002	6.012e-002	5.837e-002
0.075	7.940e-002	8.430e-002	8.593e-002	7.401e-002	7.336e-002
0.1	9.664e-002	1.027e-001	1.026e-001	9.342e-002	8.780e-002
0.15	1.248e-001	1.458e-001	1.342e-001	1.116e-001	1.074e-001
0.2	1.464e-001	1.725e-001	1.587e-001	1.295e-001	1.248e-001
0.25	1.587e-001	1.829e-001	1.681e-001	1.476e-001	1.363e-001
0.3	1.647e-001	1.839e-001	1.709e-001	1.627e-001	1.413e-001
0.4	1.595e-001	1.837e-001	1.578e-001	1.566e-001	1.399e-001
0.5	1.509e-001	1.738e-001	1.465e-001	1.491e-001	1.341e-001
0.75	1.197e-001	1.272e-001	1.121e-001	1.307e-001	1.090e-001
1	9.159e-002	9.567e-002	8.571e-002	9.732e-002	8.767e-002
1.5	6.219e-002	6.650e-002	5.284e-002	6.940e-002	6.002e-002
2	4.418e-002	4.653e-002	3.714e-002	4.943e-002	4.362e-002
3	2.668e-002	2.678e-002	2.376e-002	3.021e-002	2.598e-002
4	1.733e-002	1.797e-002	1.650e-002	1.947e-002	1.539e-002
5	1.170e-002	1.313e-002	1.156e-002	1.286e-002	9.255e-003
7.5	5.415e-003	7.716e-003	4.945e-003	5.559e-003	3.442e-003
10	3.088e-003	5.359e-003	2.351e-003	2.996e-003	1.644e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.723e-002	3.834e-002	4.182e-002	3.438e-002	3.439e-002
0.02	3.717e-002	3.887e-002	4.099e-002	3.462e-002	3.423e-002
0.03	3.788e-002	4.019e-002	4.165e-002	3.513e-002	3.457e-002
0.05	4.237e-002	4.563e-002	4.547e-002	3.938e-002	3.902e-002
0.075	5.173e-002	5.518e-002	5.503e-002	4.787e-002	4.884e-002
0.1	6.283e-002	6.719e-002	6.566e-002	6.021e-002	5.823e-002
0.15	8.160e-002	9.556e-002	8.751e-002	7.245e-002	7.087e-002
0.2	9.642e-002	1.131e-001	1.060e-001	8.457e-002	8.201e-002
0.25	1.049e-001	1.198e-001	1.135e-001	9.693e-002	8.929e-002
0.3	1.086e-001	1.202e-001	1.158e-001	1.062e-001	9.235e-002
0.4	1.048e-001	1.197e-001	1.065e-001	1.018e-001	9.102e-002
0.5	9.847e-002	1.129e-001	9.765e-002	9.631e-002	8.702e-002
0.75	7.726e-002	8.223e-002	7.341e-002	8.308e-002	7.031e-002
1	5.882e-002	6.149e-002	5.576e-002	6.169e-002	5.633e-002
1.5	3.980e-002	4.257e-002	3.432e-002	4.393e-002	3.837e-002
2	2.824e-002	2.968e-002	2.403e-002	3.139e-002	2.784e-002
3	1.704e-002	1.712e-002	1.527e-002	1.917e-002	1.659e-002
4	1.110e-002	1.152e-002	1.056e-002	1.247e-002	9.838e-003
5	7.487e-003	8.415e-003	7.402e-003	8.207e-003	5.924e-003
7.5	3.467e-003	4.935e-003	3.186e-003	3.540e-003	2.207e-003
10	1.979e-003	3.418e-003	1.532e-003	1.910e-003	1.055e-003

Source: Strawberry fault [2412]
Region: USGS 2014 Utah
Closest Distance: 97.12 km
Amplitude Units: Acceleration (g)
Magnitude: 6.92 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.430e-002	6.854e-002	7.017e-002	5.764e-002	6.085e-002
0.02	6.428e-002	6.943e-002	6.888e-002	5.820e-002	6.061e-002
0.03	6.571e-002	7.158e-002	7.041e-002	5.942e-002	6.143e-002
0.05	7.396e-002	8.113e-002	7.819e-002	6.692e-002	6.958e-002
0.075	9.053e-002	9.791e-002	9.545e-002	8.139e-002	8.737e-002
0.1	1.096e-001	1.192e-001	1.129e-001	1.016e-001	1.046e-001
0.15	1.408e-001	1.700e-001	1.458e-001	1.194e-001	1.280e-001
0.2	1.652e-001	2.022e-001	1.718e-001	1.385e-001	1.482e-001
0.25	1.798e-001	2.158e-001	1.822e-001	1.593e-001	1.618e-001
0.3	1.873e-001	2.185e-001	1.857e-001	1.772e-001	1.677e-001
0.4	1.827e-001	2.205e-001	1.726e-001	1.717e-001	1.660e-001
0.5	1.739e-001	2.100e-001	1.613e-001	1.650e-001	1.593e-001
0.75	1.394e-001	1.570e-001	1.244e-001	1.462e-001	1.301e-001
1	1.075e-001	1.194e-001	9.592e-002	1.094e-001	1.053e-001
1.5	7.448e-002	8.398e-002	6.081e-002	8.021e-002	7.290e-002

2	5.374e-002	5.943e-002	4.375e-002	5.799e-002	5.376e-002
3	3.349e-002	3.576e-002	2.902e-002	3.632e-002	3.286e-002
4	2.243e-002	2.515e-002	2.076e-002	2.383e-002	1.997e-002
5	1.544e-002	1.863e-002	1.488e-002	1.597e-002	1.228e-002
7.5	7.430e-003	1.121e-002	6.658e-003	7.106e-003	4.746e-003
10	4.330e-003	7.939e-003	3.273e-003	3.778e-003	2.331e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	4.299e-002	4.505e-002	4.724e-002	3.850e-002	4.119e-002
0.02	4.291e-002	4.565e-002	4.621e-002	3.879e-002	4.099e-002
0.03	4.368e-002	4.712e-002	4.687e-002	3.938e-002	4.134e-002
0.05	4.868e-002	5.335e-002	5.090e-002	4.388e-002	4.658e-002
0.075	5.911e-002	6.432e-002	6.113e-002	5.271e-002	5.827e-002
0.1	7.138e-002	7.823e-002	7.223e-002	6.554e-002	6.953e-002
0.15	9.224e-002	1.118e-001	9.502e-002	7.760e-002	8.456e-002
0.2	1.090e-001	1.331e-001	1.147e-001	9.056e-002	9.757e-002
0.25	1.190e-001	1.419e-001	1.230e-001	1.047e-001	1.061e-001
0.3	1.236e-001	1.433e-001	1.258e-001	1.158e-001	1.098e-001
0.4	1.201e-001	1.441e-001	1.165e-001	1.117e-001	1.082e-001
0.5	1.136e-001	1.369e-001	1.075e-001	1.066e-001	1.035e-001
0.75	9.004e-002	1.017e-001	8.148e-002	9.294e-002	8.400e-002
1	6.909e-002	7.694e-002	6.240e-002	6.935e-002	6.767e-002
1.5	4.770e-002	5.388e-002	3.950e-002	5.078e-002	4.663e-002
2	3.436e-002	3.798e-002	2.831e-002	3.682e-002	3.433e-002
3	2.140e-002	2.291e-002	1.865e-002	2.305e-002	2.100e-002
4	1.437e-002	1.616e-002	1.329e-002	1.526e-002	1.277e-002
5	9.884e-003	1.196e-002	9.525e-003	1.019e-002	7.861e-003
7.5	4.760e-003	7.182e-003	4.289e-003	4.526e-003	3.043e-003
10	2.778e-003	5.073e-003	2.133e-003	2.408e-003	1.497e-003

Source: Wasatch fault, Nephi section [2351h]
Region: USGS 2014 Utah
Closest Distance: 100.28 km
Amplitude Units: Acceleration (g)
Magnitude: 7.01 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.639e-002	7.068e-002	7.204e-002	5.850e-002	6.435e-002
0.02	6.635e-002	7.157e-002	7.063e-002	5.909e-002	6.409e-002
0.03	6.774e-002	7.372e-002	7.210e-002	6.031e-002	6.482e-002
0.05	7.598e-002	8.338e-002	7.971e-002	6.760e-002	7.322e-002
0.075	9.261e-002	1.003e-001	9.686e-002	8.150e-002	9.175e-002
0.1	1.117e-001	1.219e-001	1.141e-001	1.011e-001	1.098e-001
0.15	1.433e-001	1.741e-001	1.469e-001	1.179e-001	1.342e-001
0.2	1.686e-001	2.082e-001	1.734e-001	1.372e-001	1.554e-001
0.25	1.842e-001	2.235e-001	1.845e-001	1.589e-001	1.699e-001
0.3	1.925e-001	2.274e-001	1.879e-001	1.781e-001	1.765e-001
0.4	1.890e-001	2.317e-001	1.756e-001	1.737e-001	1.751e-001
0.5	1.808e-001	2.221e-001	1.647e-001	1.681e-001	1.685e-001
0.75	1.460e-001	1.677e-001	1.277e-001	1.505e-001	1.382e-001
1	1.131e-001	1.282e-001	9.890e-002	1.129e-001	1.122e-001
1.5	7.911e-002	9.071e-002	6.358e-002	8.397e-002	7.820e-002
2	5.745e-002	6.456e-002	4.625e-002	6.099e-002	5.799e-002
3	3.619e-002	3.926e-002	3.120e-002	3.853e-002	3.578e-002
4	2.447e-002	2.782e-002	2.264e-002	2.545e-002	2.196e-002
5	1.711e-002	2.125e-002	1.640e-002	1.713e-002	1.364e-002
7.5	8.402e-003	1.300e-002	7.502e-003	7.743e-003	5.365e-003
10	4.953e-003	9.303e-003	3.747e-003	4.094e-003	2.669e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	4.442e-002	4.651e-002	4.849e-002	3.908e-002	4.358e-002
0.02	4.431e-002	4.711e-002	4.739e-002	3.939e-002	4.336e-002
0.03	4.505e-002	4.858e-002	4.799e-002	3.998e-002	4.363e-002
0.05	5.003e-002	5.489e-002	5.188e-002	4.433e-002	4.904e-002
0.075	6.050e-002	6.598e-002	6.201e-002	5.279e-002	6.122e-002

0.1	7.284e-002	8.010e-002	7.302e-002	6.522e-002	7.300e-002
0.15	9.393e-002	1.147e-001	9.571e-002	7.664e-002	8.871e-002
0.2	1.112e-001	1.372e-001	1.157e-001	8.972e-002	1.024e-001
0.25	1.219e-001	1.472e-001	1.244e-001	1.045e-001	1.115e-001
0.3	1.271e-001	1.493e-001	1.273e-001	1.164e-001	1.155e-001
0.4	1.243e-001	1.516e-001	1.185e-001	1.130e-001	1.142e-001
0.5	1.182e-001	1.449e-001	1.098e-001	1.086e-001	1.095e-001
0.75	9.435e-002	1.088e-001	8.366e-002	9.570e-002	8.923e-002
1	7.269e-002	8.270e-002	6.434e-002	7.157e-002	7.214e-002
1.5	5.068e-002	5.824e-002	4.130e-002	5.316e-002	5.002e-002
2	3.674e-002	4.129e-002	2.992e-002	3.872e-002	3.704e-002
3	2.313e-002	2.516e-002	2.005e-002	2.445e-002	2.286e-002
4	1.568e-002	1.789e-002	1.450e-002	1.629e-002	1.404e-002
5	1.095e-002	1.365e-002	1.050e-002	1.093e-002	8.731e-003
7.5	5.384e-003	8.332e-003	4.833e-003	4.932e-003	3.440e-003
10	3.178e-003	5.949e-003	2.442e-003	2.609e-003	1.714e-003

Source: West Cache fault, Clarkston section [2521a]
Region: USGS 2014 Utah
Closest Distance: 101.67 km
Amplitude Units: Acceleration (g)
Magnitude: 6.66 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	4.955e-002	5.293e-002	5.517e-002	4.562e-002	4.565e-002
0.02	4.955e-002	5.362e-002	5.427e-002	4.600e-002	4.546e-002
0.03	5.065e-002	5.537e-002	5.555e-002	4.688e-002	4.603e-002
0.05	5.701e-002	6.288e-002	6.188e-002	5.302e-002	5.200e-002
0.075	7.002e-002	7.584e-002	7.617e-002	6.524e-002	6.504e-002
0.1	8.536e-002	9.216e-002	9.152e-002	8.259e-002	7.761e-002
0.15	1.109e-001	1.306e-001	1.211e-001	9.936e-002	9.493e-002
0.2	1.309e-001	1.548e-001	1.442e-001	1.165e-001	1.108e-001
0.25	1.428e-001	1.649e-001	1.535e-001	1.336e-001	1.216e-001
0.3	1.483e-001	1.656e-001	1.555e-001	1.482e-001	1.268e-001
0.4	1.441e-001	1.657e-001	1.440e-001	1.426e-001	1.264e-001
0.5	1.364e-001	1.565e-001	1.336e-001	1.360e-001	1.218e-001
0.75	1.083e-001	1.129e-001	1.022e-001	1.200e-001	9.952e-002
1	8.264e-002	8.385e-002	7.803e-002	8.956e-002	8.024e-002
1.5	5.572e-002	5.751e-002	4.769e-002	6.330e-002	5.505e-002
2	3.920e-002	3.983e-002	3.324e-002	4.431e-002	3.989e-002
3	2.328e-002	2.257e-002	2.097e-002	2.678e-002	2.302e-002
4	1.499e-002	1.507e-002	1.440e-002	1.711e-002	1.340e-002
5	1.005e-002	1.095e-002	1.002e-002	1.122e-002	7.995e-003
7.5	4.590e-003	6.404e-003	4.217e-003	4.807e-003	2.931e-003
10	2.601e-003	4.431e-003	1.979e-003	2.609e-003	1.386e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.307e-002	3.465e-002	3.714e-002	3.041e-002	3.085e-002
0.02	3.301e-002	3.511e-002	3.642e-002	3.060e-002	3.069e-002
0.03	3.359e-002	3.628e-002	3.698e-002	3.101e-002	3.091e-002
0.05	3.742e-002	4.114e-002	4.026e-002	3.469e-002	3.473e-002
0.075	4.558e-002	4.956e-002	4.875e-002	4.216e-002	4.325e-002
0.1	5.543e-002	6.017e-002	5.853e-002	5.318e-002	5.142e-002
0.15	7.240e-002	8.540e-002	7.883e-002	6.446e-002	6.255e-002
0.2	8.610e-002	1.013e-001	9.611e-002	7.602e-002	7.272e-002
0.25	9.417e-002	1.079e-001	1.034e-001	8.765e-002	7.961e-002
0.3	9.776e-002	1.081e-001	1.054e-001	9.668e-002	8.276e-002
0.4	9.455e-002	1.078e-001	9.716e-002	9.263e-002	8.219e-002
0.5	8.899e-002	1.015e-001	8.904e-002	8.778e-002	7.897e-002
0.75	6.983e-002	7.288e-002	6.697e-002	7.629e-002	6.417e-002
1	5.305e-002	5.384e-002	5.076e-002	5.676e-002	5.154e-002
1.5	3.565e-002	3.679e-002	3.097e-002	4.007e-002	3.519e-002
2	2.505e-002	2.539e-002	2.151e-002	2.814e-002	2.546e-002
3	1.486e-002	1.442e-002	1.348e-002	1.699e-002	1.471e-002
4	9.599e-003	9.655e-003	9.224e-003	1.095e-002	8.567e-003
5	6.426e-003	7.014e-003	6.413e-003	7.159e-003	5.117e-003
7.5	2.938e-003	4.093e-003	2.716e-003	3.062e-003	1.880e-003
10	1.667e-003	2.825e-003	1.290e-003	1.663e-003	8.897e-004

Source: Rock Creek fault [729]
Region: USGS 2014 Wyoming

Closest Distance: 114.89 km
Amplitude Units: Acceleration (g)
Magnitude: 6.95 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	5.236e-002	5.521e-002	5.719e-002	4.549e-002	5.153e-002
0.02	5.224e-002	5.586e-002	5.591e-002	4.591e-002	5.126e-002
0.03	5.315e-002	5.753e-002	5.692e-002	4.668e-002	5.149e-002
0.05	5.917e-002	6.495e-002	6.230e-002	5.180e-002	5.762e-002
0.075	7.155e-002	7.754e-002	7.527e-002	6.185e-002	7.154e-002
0.1	8.626e-002	9.361e-002	8.962e-002	7.660e-002	8.520e-002
0.15	1.114e-001	1.335e-001	1.179e-001	9.016e-002	1.040e-001
0.2	1.327e-001	1.610e-001	1.418e-001	1.065e-001	1.214e-001
0.25	1.467e-001	1.750e-001	1.531e-001	1.250e-001	1.338e-001
0.3	1.547e-001	1.799e-001	1.570e-001	1.417e-001	1.402e-001
0.4	1.540e-001	1.876e-001	1.476e-001	1.399e-001	1.409e-001
0.5	1.487e-001	1.821e-001	1.390e-001	1.369e-001	1.369e-001
0.75	1.212e-001	1.380e-001	1.082e-001	1.248e-001	1.138e-001
1	9.391e-002	1.050e-001	8.338e-002	9.406e-002	9.323e-002
1.5	6.586e-002	7.417e-002	5.336e-002	7.005e-002	6.585e-002
2	4.767e-002	5.278e-002	3.854e-002	5.033e-002	4.904e-002
3	2.989e-002	3.196e-002	2.567e-002	3.153e-002	3.041e-002
4	2.009e-002	2.263e-002	1.847e-002	2.067e-002	1.859e-002
5	1.389e-002	1.696e-002	1.330e-002	1.380e-002	1.148e-002
7.5	6.775e-003	1.040e-002	6.010e-003	6.222e-003	4.468e-003
10	3.993e-003	7.479e-003	2.968e-003	3.321e-003	2.205e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.497e-002	3.627e-002	3.844e-002	3.033e-002	3.485e-002
0.02	3.485e-002	3.671e-002	3.751e-002	3.055e-002	3.462e-002
0.03	3.530e-002	3.784e-002	3.787e-002	3.088e-002	3.460e-002
0.05	3.888e-002	4.265e-002	4.046e-002	3.389e-002	3.851e-002
0.075	4.663e-002	5.085e-002	4.811e-002	3.997e-002	4.761e-002
0.1	5.609e-002	6.132e-002	5.720e-002	4.932e-002	5.649e-002
0.15	7.280e-002	8.759e-002	7.653e-002	5.849e-002	6.858e-002
0.2	8.726e-002	1.058e-001	9.405e-002	6.949e-002	7.973e-002
0.25	9.677e-002	1.150e-001	1.025e-001	8.200e-002	8.761e-002
0.3	1.019e-001	1.178e-001	1.057e-001	9.246e-002	9.158e-002
0.4	1.011e-001	1.225e-001	9.925e-002	9.091e-002	9.171e-002
0.5	9.705e-002	1.187e-001	9.233e-002	8.839e-002	8.880e-002
0.75	7.822e-002	8.939e-002	7.071e-002	7.933e-002	7.345e-002
1	6.035e-002	6.762e-002	5.424e-002	5.962e-002	5.992e-002
1.5	4.217e-002	4.759e-002	3.466e-002	4.434e-002	4.211e-002
2	3.048e-002	3.373e-002	2.494e-002	3.195e-002	3.131e-002
3	1.910e-002	2.048e-002	1.650e-002	2.001e-002	1.943e-002
4	1.287e-002	1.454e-002	1.182e-002	1.323e-002	1.189e-002
5	8.889e-003	1.089e-002	8.511e-003	8.808e-003	7.351e-003
7.5	4.341e-003	6.663e-003	3.872e-003	3.963e-003	2.865e-003
10	2.562e-003	4.780e-003	1.934e-003	2.117e-003	1.416e-003

Source: Wasatch fault, Levan section [2351i]
Region: USGS 2014 Utah
Closest Distance: 149.91 km
Amplitude Units: Acceleration (g)
Magnitude: 6.83 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.079e-002	3.186e-002	3.394e-002	2.642e-002	3.094e-002
0.02	3.064e-002	3.216e-002	3.312e-002	2.662e-002	3.067e-002
0.03	3.085e-002	3.303e-002	3.333e-002	2.679e-002	3.024e-002
0.05	3.340e-002	3.692e-002	3.475e-002	2.900e-002	3.291e-002
0.075	3.946e-002	4.305e-002	4.127e-002	3.377e-002	3.975e-002
0.1	4.745e-002	5.106e-002	5.031e-002	4.170e-002	4.673e-002
0.15	6.235e-002	7.247e-002	6.984e-002	5.010e-002	5.700e-002
0.2	7.678e-002	8.964e-002	8.804e-002	6.142e-002	6.800e-002
0.25	8.767e-002	1.009e-001	9.883e-002	7.420e-002	7.675e-002

0.3	9.494e-002	1.065e-001	1.043e-001	8.647e-002	8.242e-002
0.4	9.844e-002	1.182e-001	1.011e-001	8.845e-002	8.598e-002
0.5	9.750e-002	1.186e-001	9.624e-002	8.930e-002	8.586e-002
0.75	8.170e-002	9.071e-002	7.658e-002	8.511e-002	7.442e-002
1	6.393e-002	6.837e-002	5.939e-002	6.553e-002	6.244e-002
1.5	4.524e-002	4.836e-002	3.782e-002	4.910e-002	4.569e-002
2	3.261e-002	3.447e-002	2.701e-002	3.450e-002	3.447e-002
3	2.033e-002	2.075e-002	1.764e-002	2.118e-002	2.175e-002
4	1.339e-002	1.430e-002	1.239e-002	1.365e-002	1.323e-002
5	9.080e-003	1.054e-002	8.753e-003	8.949e-003	8.083e-003
7.5	4.366e-003	6.524e-003	3.854e-003	4.008e-003	3.077e-003
10	2.568e-003	4.733e-003	1.868e-003	2.178e-003	1.493e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.047e-002	2.087e-002	2.258e-002	1.756e-002	2.087e-002
0.02	2.035e-002	2.107e-002	2.200e-002	1.766e-002	2.067e-002
0.03	2.040e-002	2.165e-002	2.199e-002	1.767e-002	2.027e-002
0.05	2.186e-002	2.414e-002	2.246e-002	1.891e-002	2.192e-002
0.075	2.562e-002	2.809e-002	2.629e-002	2.175e-002	2.635e-002
0.1	3.071e-002	3.327e-002	3.197e-002	2.676e-002	3.086e-002
0.15	4.053e-002	4.732e-002	4.498e-002	3.239e-002	3.743e-002
0.2	5.020e-002	5.861e-002	5.772e-002	3.996e-002	4.450e-002
0.25	5.746e-002	6.598e-002	6.524e-002	4.854e-002	5.008e-002
0.3	6.216e-002	6.952e-002	6.918e-002	5.628e-002	5.367e-002
0.4	6.429e-002	7.698e-002	6.701e-002	5.738e-002	5.580e-002
0.5	6.334e-002	7.704e-002	6.318e-002	5.759e-002	5.557e-002
0.75	5.255e-002	5.863e-002	4.957e-002	5.406e-002	4.794e-002
1	4.096e-002	4.396e-002	3.829e-002	4.152e-002	4.008e-002
1.5	2.891e-002	3.098e-002	2.438e-002	3.108e-002	2.920e-002
2	2.082e-002	2.200e-002	1.736e-002	2.190e-002	2.200e-002
3	1.297e-002	1.328e-002	1.125e-002	1.344e-002	1.390e-002
4	8.564e-003	9.175e-003	7.887e-003	8.737e-003	8.457e-003
5	5.806e-003	6.757e-003	5.581e-003	5.711e-003	5.174e-003
7.5	2.794e-003	4.176e-003	2.474e-003	2.553e-003	1.973e-003
10	1.645e-003	3.022e-003	1.210e-003	1.388e-003	9.589e-004

Source: Joes Valley fault zone [2455]
Region: USGS 2014 Utah
Closest Distance: 160.47 km
Amplitude Units: Acceleration (g)
Magnitude: 7.02 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.255e-002	3.388e-002	3.513e-002	2.696e-002	3.423e-002
0.02	3.236e-002	3.415e-002	3.420e-002	2.718e-002	3.389e-002
0.03	3.243e-002	3.499e-002	3.423e-002	2.731e-002	3.320e-002
0.05	3.474e-002	3.890e-002	3.502e-002	2.917e-002	3.585e-002
0.075	4.055e-002	4.494e-002	4.101e-002	3.322e-002	4.303e-002
0.1	4.838e-002	5.297e-002	4.968e-002	4.037e-002	5.049e-002
0.15	6.336e-002	7.549e-002	6.880e-002	4.773e-002	6.144e-002
0.2	7.861e-002	9.467e-002	8.742e-002	5.908e-002	7.329e-002
0.25	9.083e-002	1.084e-001	9.926e-002	7.268e-002	8.302e-002
0.3	9.948e-002	1.161e-001	1.059e-001	8.628e-002	8.964e-002
0.4	1.051e-001	1.325e-001	1.042e-001	8.972e-002	9.421e-002
0.5	1.056e-001	1.352e-001	1.002e-001	9.234e-002	9.468e-002
0.75	9.011e-002	1.061e-001	8.091e-002	9.024e-002	8.323e-002
1	7.124e-002	8.075e-002	6.344e-002	7.014e-002	7.063e-002
1.5	5.166e-002	5.786e-002	4.175e-002	5.430e-002	5.275e-002
2	3.785e-002	4.177e-002	3.059e-002	3.857e-002	4.049e-002
3	2.426e-002	2.575e-002	2.075e-002	2.419e-002	2.633e-002
4	1.645e-002	1.858e-002	1.498e-002	1.581e-002	1.641e-002
5	1.144e-002	1.422e-002	1.079e-002	1.049e-002	1.025e-002
7.5	5.754e-003	9.115e-003	4.983e-003	4.867e-003	4.054e-003
10	3.479e-003	6.768e-003	2.508e-003	2.618e-003	2.022e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.165e-002	2.224e-002	2.332e-002	1.793e-002	2.310e-002
0.02	2.149e-002	2.242e-002	2.266e-002	1.804e-002	2.285e-002
0.03	2.145e-002	2.299e-002	2.255e-002	1.802e-002	2.226e-002
0.05	2.275e-002	2.549e-002	2.262e-002	1.902e-002	2.389e-002
0.075	2.635e-002	2.938e-002	2.610e-002	2.140e-002	2.853e-002
0.1	3.135e-002	3.459e-002	3.154e-002	2.590e-002	3.335e-002
0.15	4.121e-002	4.940e-002	4.424e-002	3.086e-002	4.036e-002
0.2	5.140e-002	6.203e-002	5.716e-002	3.844e-002	4.797e-002
0.25	5.952e-002	7.102e-002	6.532e-002	4.755e-002	5.420e-002
0.3	6.511e-002	7.593e-002	6.997e-002	5.616e-002	5.839e-002
0.4	6.866e-002	8.645e-002	6.882e-002	5.821e-002	6.116e-002
0.5	6.862e-002	8.801e-002	6.561e-002	5.955e-002	6.131e-002
0.75	5.798e-002	6.870e-002	5.226e-002	5.733e-002	5.363e-002
1	4.565e-002	5.202e-002	4.081e-002	4.444e-002	4.535e-002
1.5	3.301e-002	3.713e-002	2.684e-002	3.437e-002	3.372e-002
2	2.416e-002	2.671e-002	1.959e-002	2.449e-002	2.584e-002
3	1.546e-002	1.651e-002	1.318e-002	1.535e-002	1.682e-002
4	1.052e-002	1.195e-002	9.511e-003	1.012e-002	1.050e-002
5	7.315e-003	9.134e-003	6.869e-003	6.695e-003	6.563e-003
7.5	3.684e-003	5.844e-003	3.193e-003	3.100e-003	2.599e-003
10	2.229e-003	4.328e-003	1.620e-003	1.669e-003	1.299e-003

Source: Grand Valley fault [726c]
Region: USGS 2014 Wyoming
Closest Distance: 178.09 km
Amplitude Units: Acceleration (g)
Magnitude: 7.10 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.895e-002	3.022e-002	3.081e-002	2.347e-002	3.131e-002
0.02	2.874e-002	3.042e-002	2.992e-002	2.366e-002	3.095e-002
0.03	2.863e-002	3.108e-002	2.975e-002	2.367e-002	3.000e-002
0.05	3.018e-002	3.430e-002	2.961e-002	2.486e-002	3.194e-002
0.075	3.469e-002	3.905e-002	3.416e-002	2.772e-002	3.782e-002
0.1	4.114e-002	4.558e-002	4.151e-002	3.331e-002	4.414e-002
0.15	5.408e-002	6.503e-002	5.837e-002	3.927e-002	5.364e-002
0.2	6.813e-002	8.294e-002	7.567e-002	4.946e-002	6.444e-002
0.25	8.011e-002	9.705e-002	8.762e-002	6.204e-002	7.374e-002
0.3	8.913e-002	1.059e-001	9.502e-002	7.510e-002	8.053e-002
0.4	9.669e-002	1.254e-001	9.542e-002	7.983e-002	8.607e-002
0.5	9.879e-002	1.307e-001	9.283e-002	8.396e-002	8.764e-002
0.75	8.600e-002	1.045e-001	7.629e-002	8.440e-002	7.880e-002
1	6.867e-002	7.981e-002	6.046e-002	6.651e-002	6.789e-002
1.5	5.074e-002	5.766e-002	4.071e-002	5.268e-002	5.192e-002
2	3.755e-002	4.198e-002	3.029e-002	3.748e-002	4.043e-002
3	2.445e-002	2.622e-002	2.094e-002	2.371e-002	2.693e-002
4	1.674e-002	1.914e-002	1.524e-002	1.558e-002	1.701e-002
5	1.171e-002	1.472e-002	1.104e-002	1.037e-002	1.073e-002
7.5	6.066e-003	9.850e-003	5.202e-003	4.901e-003	4.309e-003
10	3.725e-003	7.423e-003	2.667e-003	2.634e-003	2.175e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.923e-002	1.983e-002	2.037e-002	1.560e-002	2.112e-002
0.02	1.907e-002	1.997e-002	1.976e-002	1.569e-002	2.086e-002
0.03	1.891e-002	2.041e-002	1.954e-002	1.560e-002	2.011e-002
0.05	1.976e-002	2.246e-002	1.909e-002	1.620e-002	2.127e-002
0.075	2.253e-002	2.552e-002	2.171e-002	1.784e-002	2.506e-002
0.1	2.664e-002	2.974e-002	2.631e-002	2.136e-002	2.914e-002
0.15	3.514e-002	4.253e-002	3.743e-002	2.537e-002	3.522e-002
0.2	4.448e-002	5.432e-002	4.927e-002	3.216e-002	4.216e-002
0.25	5.241e-002	6.358e-002	5.737e-002	4.057e-002	4.811e-002
0.3	5.824e-002	6.922e-002	6.245e-002	4.887e-002	5.243e-002
0.4	6.305e-002	8.184e-002	6.272e-002	5.178e-002	5.585e-002
0.5	6.412e-002	8.510e-002	6.051e-002	5.413e-002	5.673e-002
0.75	5.529e-002	6.767e-002	4.910e-002	5.361e-002	5.077e-002
1	4.397e-002	5.141e-002	3.876e-002	4.213e-002	4.358e-002
1.5	3.240e-002	3.700e-002	2.606e-002	3.334e-002	3.319e-002
2	2.394e-002	2.684e-002	1.931e-002	2.380e-002	2.581e-002
3	1.557e-002	1.680e-002	1.323e-002	1.505e-002	1.720e-002
4	1.070e-002	1.230e-002	9.633e-003	9.972e-003	1.088e-002
5	7.486e-003	9.457e-003	7.004e-003	6.615e-003	6.867e-003
7.5	3.881e-003	6.315e-003	3.325e-003	3.122e-003	2.763e-003

10	2.385e-003	4.747e-003	1.716e-003	1.679e-003	1.396e-003

Source: Greys River fault [728]
Region: USGS 2014 Wyoming
Closest Distance: 193.11 km
Amplitude Units: Acceleration (g)
Magnitude: 7.05 Mw
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.359e-002	2.439e-002	2.515e-002	1.920e-002	2.563e-002
0.02	2.340e-002	2.452e-002	2.442e-002	1.935e-002	2.530e-002
0.03	2.319e-002	2.500e-002	2.416e-002	1.927e-002	2.431e-002
0.05	2.414e-002	2.743e-002	2.355e-002	2.004e-002	2.554e-002
0.075	2.745e-002	3.086e-002	2.695e-002	2.212e-002	2.986e-002
0.1	3.249e-002	3.571e-002	3.306e-002	2.653e-002	3.465e-002
0.15	4.302e-002	5.089e-002	4.754e-002	3.159e-002	4.208e-002
0.2	5.500e-002	6.568e-002	6.286e-002	4.040e-002	5.105e-002
0.25	6.561e-002	7.812e-002	7.402e-002	5.123e-002	5.908e-002
0.3	7.391e-002	8.635e-002	8.134e-002	6.269e-002	6.526e-002
0.4	8.171e-002	1.053e-001	8.290e-002	6.771e-002	7.098e-002
0.5	8.447e-002	1.113e-001	8.119e-002	7.214e-002	7.322e-002
0.75	7.450e-002	8.947e-002	6.753e-002	7.387e-002	6.710e-002
1	5.980e-002	6.813e-002	5.382e-002	5.880e-002	5.847e-002
1.5	4.445e-002	4.928e-002	3.637e-002	4.671e-002	4.545e-002
2	3.290e-002	3.593e-002	2.705e-002	3.298e-002	3.562e-002
3	2.140e-002	2.242e-002	1.857e-002	2.071e-002	2.391e-002
4	1.459e-002	1.639e-002	1.336e-002	1.352e-002	1.508e-002
5	1.014e-002	1.258e-002	9.590e-003	8.935e-003	9.473e-003
7.5	5.187e-003	8.301e-003	4.467e-003	4.207e-003	3.773e-003
10	3.177e-003	6.268e-003	2.274e-003	2.275e-003	1.892e-003

Fractile: Mean
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.565e-002	1.600e-002	1.658e-002	1.276e-002	1.728e-002
0.02	1.551e-002	1.609e-002	1.608e-002	1.282e-002	1.704e-002
0.03	1.531e-002	1.641e-002	1.583e-002	1.270e-002	1.628e-002
0.05	1.579e-002	1.795e-002	1.516e-002	1.305e-002	1.700e-002
0.075	1.781e-002	2.015e-002	1.712e-002	1.423e-002	1.977e-002
0.1	2.102e-002	2.328e-002	2.093e-002	1.700e-002	2.284e-002
0.15	2.791e-002	3.325e-002	3.042e-002	2.040e-002	2.760e-002
0.2	3.585e-002	4.298e-002	4.080e-002	2.625e-002	3.337e-002
0.25	4.285e-002	5.114e-002	4.828e-002	3.348e-002	3.851e-002
0.3	4.822e-002	5.641e-002	5.324e-002	4.077e-002	4.245e-002
0.4	5.321e-002	6.864e-002	5.428e-002	4.390e-002	4.602e-002
0.5	5.476e-002	7.244e-002	5.276e-002	4.650e-002	4.736e-002
0.75	4.785e-002	5.793e-002	4.335e-002	4.691e-002	4.321e-002
1	3.826e-002	4.387e-002	3.440e-002	3.725e-002	3.752e-002
1.5	2.836e-002	3.162e-002	2.321e-002	2.956e-002	2.904e-002
2	2.096e-002	2.297e-002	1.718e-002	2.094e-002	2.273e-002
3	1.362e-002	1.437e-002	1.169e-002	1.314e-002	1.528e-002
4	9.313e-003	1.054e-002	8.419e-003	8.652e-003	9.641e-003
5	6.479e-003	8.078e-003	6.073e-003	5.702e-003	6.063e-003
7.5	3.318e-003	5.322e-003	2.849e-003	2.679e-003	2.419e-003
10	2.033e-003	4.008e-003	1.459e-003	1.450e-003	1.215e-003

APPENDIX B

SEISMIC VELOCITY SURVEY RESULTS
GMHA SUMMARY
OSHPD REPORT

Intermountain GeoEnvironmental Services, Inc.
2702 South 1030 West, Suite 10, South Salt Lake, Utah 84119
(801) 270-9400

17 June 2024

Andrew Harris, P.E.
CMT Technical Services
2796 South Redwood Road
West Vally, UT 84119
Andy.Harris@CMTTechnical.com
(801) 870-6730

RE: SEISMIC VELOCITY SURVEY (V_{S100}) –DFCM Facility, Lagoon Drive, Farmington, UT

Based on the project objective of determining seismic site classification, IGES conducted a shear wave velocity survey at the DFCM Facility site located west of the State Liquor & Wine Store on Lagoon Drive in Farmington, UT (Figure 1). The survey details the shear wave velocity profile of the near surface to a depth of 100 ft.

Seismic Shear Wave Velocity Survey

Seismic Surface Waves methods such as MASW (Multichannel Analysis of Surface Waves), MAM (Microtremor Array Measurements), and ReMi (Refraction Microtremor) use the dispersive characteristics of surface waves to determine the variation of the seismic shear wave velocity with depth. Velocity data are derived by analyzing seismic surface waves generated by a controlled impulse or by random ambient sources and received by an array of geophones. The ambient MAM data is supplemented with 10 minutes of hammer blows to produce a smooth broad-spectrum curve.

The recording parameters used for the survey are shown in Table 1 with the approximate location shown in Figure 1. The V_{S100} sounding is centered at approximately 40.990147°, -111.900208°.

Figure A1 shows the dispersion curve of the data from the Vs_{100} with phase velocity (ft/s) of the surface wave as a function of frequency (Hz). Figure A2 shows the shear wave velocity profile (a 1-D sounding of velocity as a function of depth) modeled from the dispersion curve. The average shear wave velocity for the near-surface is calculated to be 777.3 ft/s.

Table 1: Shear wave velocity survey recording parameters.

Test location	DFCM Facility
Test date	06/13/2024
Recording instrument	Summit II Compact
S/N	SUX1018
Geophone natural period	4.5 Hz
Geophone/station spacing	16.4 feet
Number of channels	24
Spread length / geometry	377 feet
Sample rate	4 milliseconds
Number of samples	15,000/trace
Record length	60 seconds
Total recording time / records	30 minutes
Low pass filter	½ Nyquist
Low cut filter	1 Hz.
Seismic source	12 lb. hammer (10 minutes)
Source location	-30 foot offset
Analysis software	SeisImager™ Geometrics, Inc.

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Figure 1: Approximate locations of the shear wave velocity (V_{S100}) survey at the DFCM Facility site. The test array length is 377 ft.

Limitations

The concept of risk is a significant consideration of geophysical analyses. The analytical means and methods used in performing geophysical analyses and development of resulting data set does not constitute an exact science. Analytical tools used by geophysicists are based on limited data, empirical correlations, judgment, and experience. As such the solutions and resulting data set presented in this report cannot be considered risk-free and constitute IGES's best professional opinion based on the available data at the time they were developed. IGES has developed the preceding analyses, at a minimum, in accordance with generally accepted professional geophysical practices and care being exercised in the project area at the time our services were performed. No warranties, guarantees, or other representations are made.

The information contained in this report is based on limited field testing and understanding of the project. The data used in the preparation of this report were obtained by IGES for this project. Variations in the soil, rock, and groundwater conditions likely exist between and beyond the points explored. The nature and extent of the variations may not be evident until construction occurs and/or additional explorations are completed.

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This report was prepared for our client's exclusive use on the project identified in the foregoing. Use of the data contained herein for any other project described in this report is at the user's sole risk. It is the client's responsibility to see that all parties to the project including the designer, contractor, subcontractors, etc. are made aware of this report in its entirety. The use of information contained in this report for bidding purposes should be done at the contractor's option and risk.

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We trust you will find this report acceptable and look forward to discussing the project with you in more detail if necessary. If you have any questions regarding the work or any other aspects of our report, please contact the undersigned at your earliest convenience at (801) 270-9400.

Sincerely,
IGES, Inc.

Yanni Philopoulos
Geophysicist

Attachments:
Appendix A

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APPENDIX A

Shear Wave Velocity Soundings

Microtremor Array Measurement (MAM)

(Depth is measured in feet below ground surface. Velocity is reported in feet per second.)

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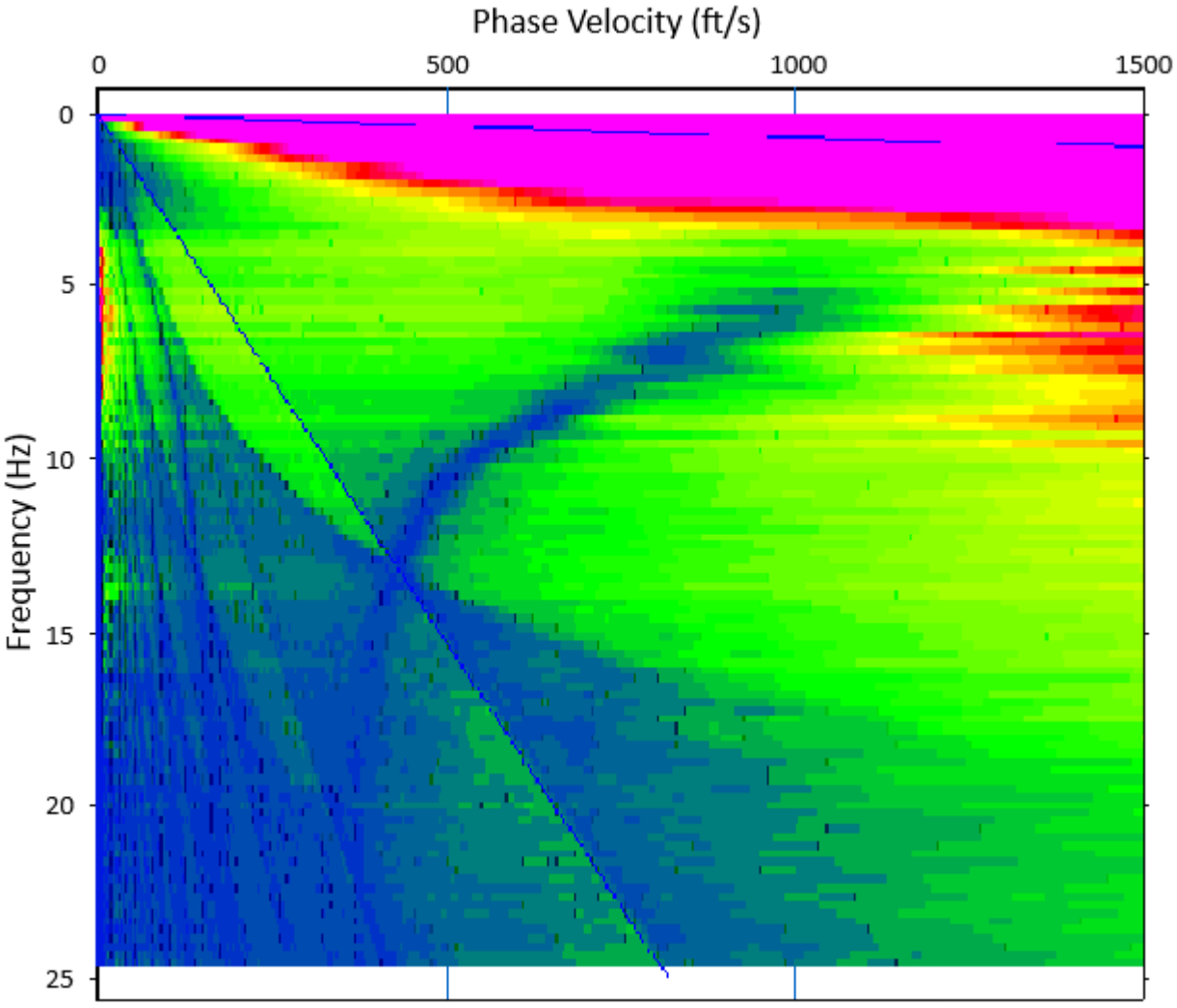

Figure A2: Dispersion curve of the V_{S100} showing phase velocity (ft/s) as a function of frequency (Hz).

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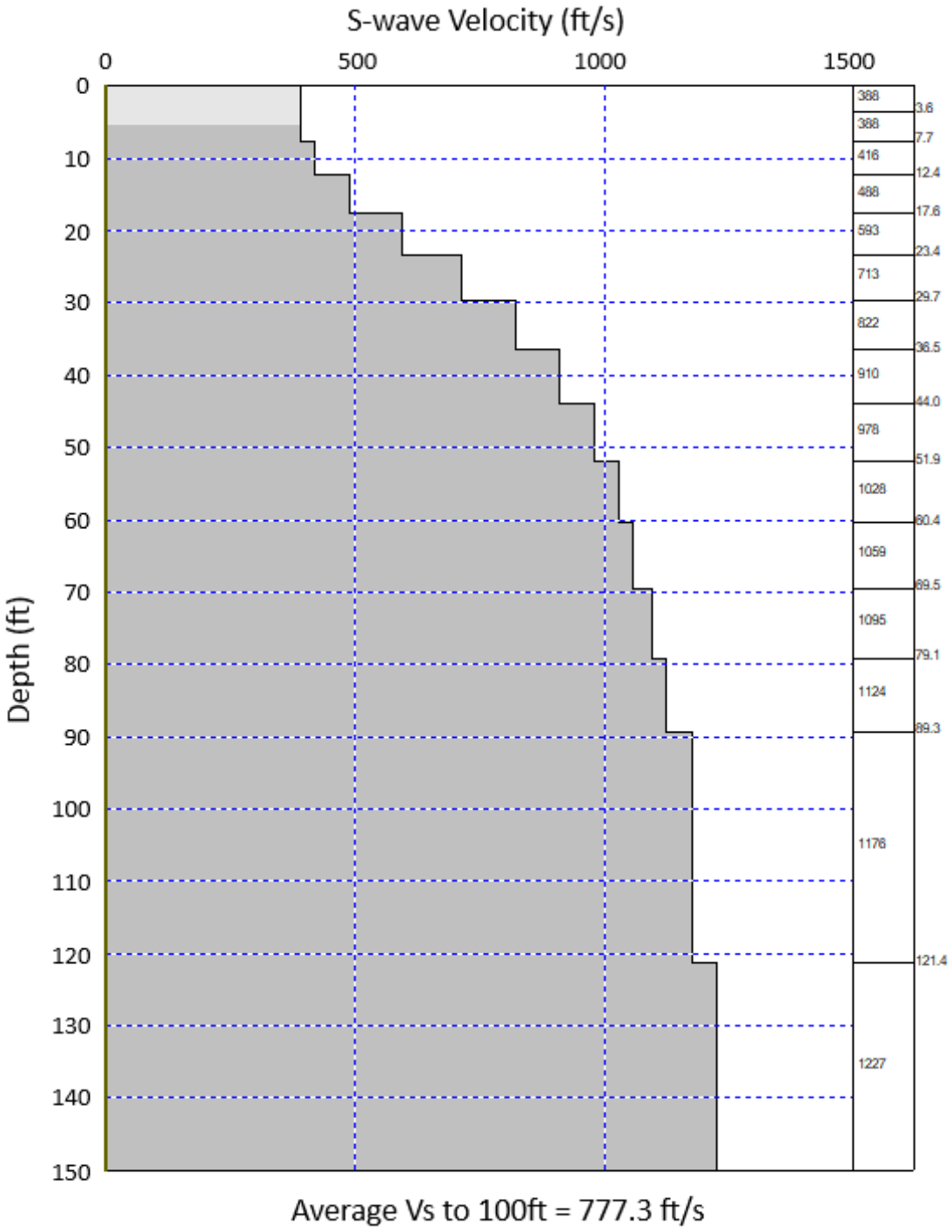

Figure A3: Shear wave velocity profile (a 1-D sounding of velocity as a function of depth) of the V_{S100} modeled from the dispersion curve. The shear velocity of the near surface is calculated to be 777.3 ft/s.

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Project: **Farmington Regional Center**
Project No: **22203**
Performed By: **Bill Turner**
Checked By: **Andy Harris**

Design Standards:

IBC 2021
ASCE 7-16
ASCE 7-16 Supplement 1

Outcomes:

Site-Specific Ground Motion Hazard Analysis performed according to ASCE 7-16 Section 21.2, using *EZ-FRISK* (ver. 8.06) software and NGA-2West Spreadsheet.

Input Information:

Geophysical Survey Report (attached, provides estimated $V_{s,30}$ for the site)

Boring Logs from CMT Geotechnical Engineering Study (report dated January 10, 2023)

Table 1.5-1 Risk Category of Buildings and Other Structures for Flood, Wind, Snow, Earthquake, and Ice Loads

Use or Occupancy of Buildings and Structures	Risk Category
Buildings and other structures that represent low risk to human life in the event of failure	I
All buildings and other structures except those listed in Risk Categories I, III, and IV	II
Buildings and other structures, the failure of which could pose a substantial risk to human life	III
Buildings and other structures, not included in Risk Category IV, with potential to cause a substantial economic impact and/or mass disruption of day-to-day civilian life in the event of failure	
Buildings and other structures not included in Risk Category IV (including, but not limited to, facilities that manufacture, process, handle, store, use, or dispose of such substances as hazardous fuels, hazardous chemicals, hazardous waste, or explosives) containing toxic or explosive substances where the quantity of the material exceeds a threshold quantity established by the Authority Having Jurisdiction and is sufficient to pose a threat to the public if released[a]	
Buildings and other structures designated as essential facilities	IV
Buildings and other structures, the failure of which could pose a substantial hazard to the community Buildings and other structures (including, but not limited to, facilities that manufacture, process, handle, store, use, or dispose of such substances as hazardous fuels, hazardous chemicals, or hazardous waste) containing sufficient quantities of highly toxic substances where the quantity of the material exceeds a threshold quantity established by the Authority Having Jurisdiction and is sufficient to pose a threat to the public if released[a]	
Buildings and other structures required to maintain the functionality of other Risk Category IV structures	

Site Location (approximate center of site for estimating seismic source distances):

Latitude: **40.9904**
Longitude: **-111.9005**

Risk Category: **II**
Prelim. Site Class: **D**

S_s & S_1 are obtained in accordance with ASCE 7-16 Section 11.4.2 using the latest available USGS database [from online web tool www.seismicmaps.org by Structural Engineers Association of California (SEAOC) and California's Office of Statewide Health Planning and Development (OSHPD) - see attached]

S_s: **1.338**
S_1: **0.494**
PGA: **0.611**
PGA_M: **0.673**
T_L: **8**
C_{RS}: **0.864**
C_{R1}: **0.882**

Determine Site Classification in accordance with ASCE 7-16 Chapter 20.3:

20.3.1 Site Class F. Where any of the following conditions is satisfied, the site shall be classified as Site Class F and a site response analysis in accordance with Section 21.1 shall be performed.

1. Soils vulnerable to potential failure or collapse under seismic loading, such as liquefiable soils, quick and highly sensitive clays, and collapsible weakly cemented soils.
   EXCEPTION: For structures that have fundamental periods of vibration equal to or less than 0.5 s, site response analysis is not required to determine spectral accelerations for liquefiable soils. Rather, a site class is permitted to be determined in accordance with Section 20.3 and the corresponding values of F_a and F_v determined from Tables 11.4-1 and 11.4-2.
2. Peats and/or highly organic clays [$H > 10$ ft ($H > 3$ m)] of peat and/or highly organic clay where H = thickness of soil.
3. Very high plasticity clays [$H > 25$ ft ($H > 7.6$ m) with $PI > 75$] in a soil profile that would otherwise be classified as Site Class D or E.
   EXCEPTION: Site response analysis is not required for this clay category provided that both of the following requirements are satisfied: (i) values of F_a and F_v are obtained from Tables 11.4-1 and 11.4-2 for Site Class D or E multiplied by a factor that varies linearly from 1.0 at $PI = 75$ to 1.3 for $PI = 125$ and is equal to 1.3 for $PI > 125$; and (ii) the resulting values of S_{DS} and S_{D1} obtained using the scaled factors F_a and F_v do not exceed the upper bound values for Seismic Design Category B given in Tables 11.6-1 and 11.6-2.
4. Very thick soft/medium stiff clays [$H > 120$ ft ($H > 37$ m)] with $s_u < 1{,}000$ psf ($s_u < 50$ kPa).
   EXCEPTION: Site response analysis is not required for this clay category provided that both of the following requirements are satisfied: (i) values of F_a and F_v are obtained from Tables 11.4-1 and 11.4-2 for Site Class E; and (ii) the resulting values of S_{DS} and S_{D1} using the factors F_a and F_v do not exceed the upper bound values for Seismic Design Category B given in Tables 11.6-1 and 11.6-2.

20.3.2 Soft Clay Site Class E. Where a site does not qualify under the criteria for Site Class F and there is a total thickness of soft clay greater than 10 ft (3 m) where a soft clay layer is defined by $s_u < 500$ psf ($s_u < 25$ kPa), $w \geq 40\%$, and $PI > 20$, it shall be classified as Site Class E.

20.3.3 Site Classes C, D, and E. The existence of Site Class C, D, and E soils shall be classified by using one of the following three methods with $\bar{v}_s$, $\bar{N}$, and $\bar{s}_u$ computed in all cases as specified in Section 20.4:

1. $\bar{v}_s$ for the top 100 ft (30 m) ($\bar{v}_s$ method).
2. $\bar{N}$ for the top 100 ft (30 m) ($\bar{N}$ method).
3. $\bar{N}_{ch}$ for cohesionless soil layers ($PI < 20$) in the top 100 ft (30 m) and $\bar{s}_u$ for cohesive soil layers ($PI > 20$) in the top 100 ft (30 m) ($\bar{s}_u$ method). Where the $\bar{N}_{ch}$ and $\bar{s}_u$ criteria differ, the site shall be assigned to the category with the softer soil.

Determine whether the site classifies as Site Class F:

inputs:

1. Are the subsurface soils:

Liquefiable?	no
Quick or highly sensitive clays?	no
Collapsible weakly cemented?	no
Is the structure's fundamental period of vibration equal to or less than 0.5 seconds?	N/A

2. Are peat and/or highly organic clay layers > 10 ft thick present? **no**

3. Are very high plasticity clays > 25 ft thick and PI>75 present? **no**

If yes, enter the plasticity index: **N/A**

PI factor= 1

Scaled Fa = 1 * 1 = 1

Scaled Fv = 2.5 * 1 = 2.5

Resulting S_{DS} = 0.892 > 0.33

Resulting S_{D1} = 0.823 > 0.133

Can Exception be applied? **NO**

4. Are clays with s_u < 1,000 psf thicker than 120 ft present? **no**

F_a = 1

F_v = 4

Resulting S_{DS} = 0.892 > 0.33

Resulting S_{D1} = 1.317 > 0.133

Can Exception be applied? **NO**

Does the site classify as Site Class F? ***NO***

Determine Site Class:

See if more than 10' of soft clay is present:

Enter s_u for >10' of soft clay (psf):	
Enter moisture % for >10' of soft clay:	
Enter PI for >10' of soft clay:	
Enter weighted avg. v_s in upper 100 feet (ft/sec):	777
Enter weighted avg. blow count in upper 100 ft:	
Enter weighted avg. blow count of cohesionless layers having PI < 20 in upper 100 ft:	
Enter weighted avg. s_u for cohesive soil layers having PI > 20 in upper 100 feet:	
Are there more than 10 feet of soils below bottom of foundations to rock?	yes

Results: ***Site Class =*** **D** **w/data**

Table 20.3-1 Site Classification

Site Class	$\bar{v}_s$	$\bar{N}$ or $\bar{N}_{ch}$	$\bar{s}_u$
A. Hard rock	>5,000 ft/s	NA	NA
B. Rock	2,500 to 5,000 ft/s	NA	NA
C. Very dense soil and soft rock	1,200 to 2,500 ft/s	>50 blows/ft	>2,000 lb/ft^2
D. Stiff soil	600 to 1,200 ft/s	15 to 50 blows/ft	1,000 to 2,000 lb/ft^2
E. Soft clay soil	<600 ft/s	<15 blows/ft	<1,000 lb/ft^2
	Any profile with more than 10 ft of soil that has the following characteristics: — Plasticity index $PI > 20$, — Moisture content $w \geq 40\%$, — Undrained shear strength $\bar{s}_u < 500$ lb/ft^2		
F. Soils requiring site response analysis in accordance with Section 21.1	See Section 20.3.1		

Note: For SI: 1 ft = 0.3048 m; 1 ft/s = 0.3048 m/s; 1 lb/ft^2 = 0.0479 kN/m^2.

Check Requirements for Ground Motion Hazard Analysis

Site Class: D

Is Site Response Analysis Required? ***NO***

Put no if don't know the answers to the 2 questions below:

Will the structure be seismically isolated? **no**

Will the structure have a damping system? **no**

Is S_1 greater than or equal to 0.6? **NO**

Is S_s greater than or equal to 1.0? **YES**

Is S_1 greater than or equal to 0.2? **YES**

Is Ground Motion Hazard Analysis Required? ***YES***

NOTE that the EXCEPTION values (as listed in Section 11.4.8 at left) may be used instead of performing a GMHA at the site.

11.4.8 Site-Specific Ground Motion Procedures. A site response analysis shall be performed in accordance with Section 21.1 for structures on Site Class F sites, unless exempted in accordance with Section 20.3.1. A ground motion hazard analysis shall be performed in accordance with Section 21.2 for the following:

1. seismically isolated structures and structures with damping systems on sites with S_1 greater than or equal to 0.6,
2. structures on Site Class E sites with S_s greater than or equal to 1.0, and.
3. structures on Site Class D and E sites with S_1 greater than or equal to 0.2.

EXCEPTION: A ground motion hazard analysis is not required for structures other than seismically isolated structures and structures with damping systems where:

1. Structures on Site Class E sites with S_S greater than or equal to 1.0, provided the site coefficient F_a is taken as equal to that of Site Class C.
2. Structures on Site Class D sites with S_1 greater than or equal to 0.2, provided the value of the seismic response coefficient C_s is determined by Eq. (12.8-2) for values of $T \leq 1.5T_s$ and taken as equal to 1.5 times the value computed in accordance with either Eq. (12.8-3) for $T_L \geq T > 1.5T_s$ or Eq. (12.8-4) for $T > T_L$.
3. Structures on Site Class E sites with S_1 greater than or equal to 0.2, provided that T is less than or equal to T_s and the equivalent static force procedure is used for design.

Input Parameters

Site Characteristics:

$V_{s,30}$ = The weighted-average shear-wave velocity within the upper 30 meters (100 feet)

$Z_{1.0}$ = Depth to shear-wave velocity of 1.0 km/sec

$Z_{2.5}$ = Depth to shear-wave velocity of 2.5 km/sec

From Geophysical Survey: $V_{s,30}$ = 777 ft/sec = 237 m/sec

Site Coordinates: Latitude= 40.9904

Longitude= -111.9005

Estimate Z Values:

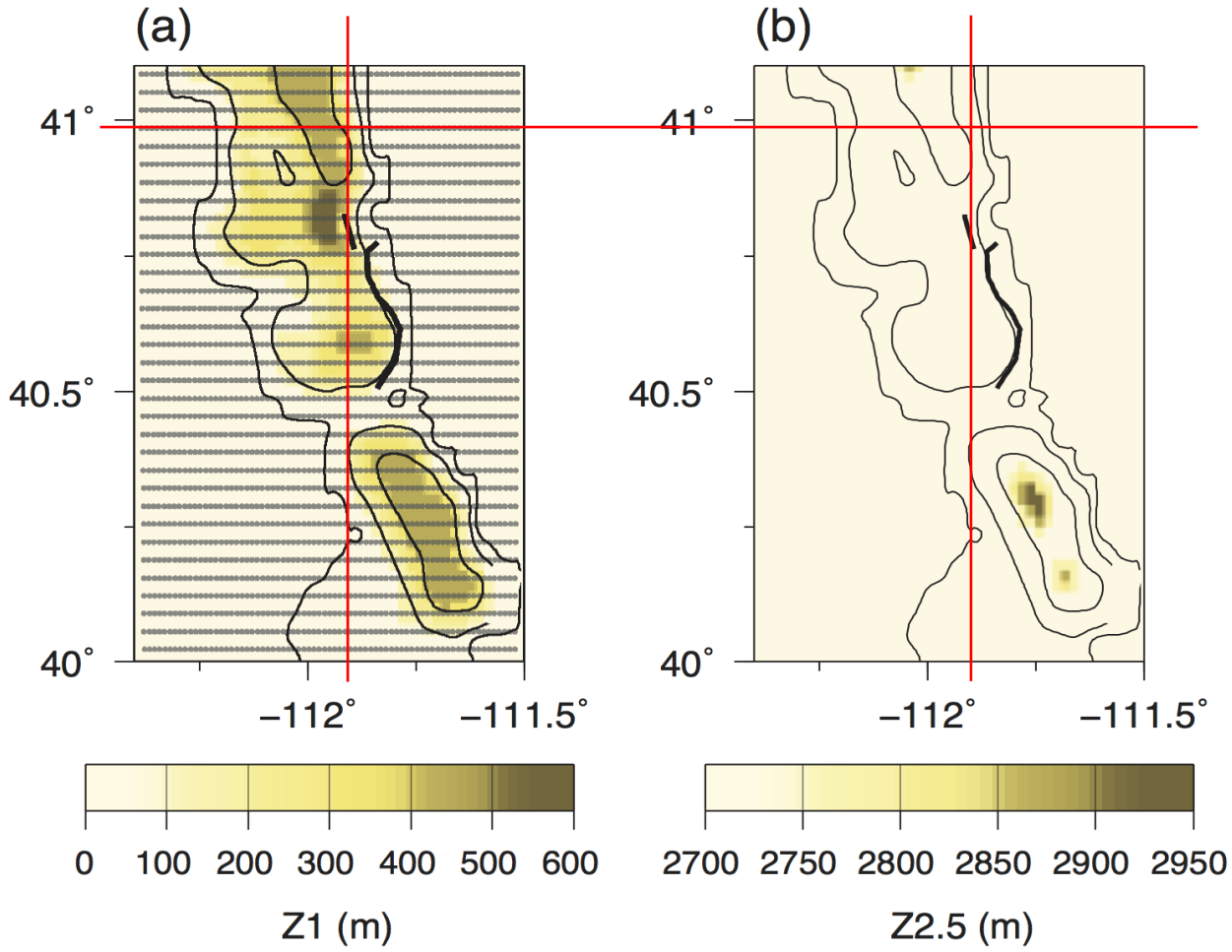
1. Moschetti et al (2017) graphs only go to 41.1°, so not applicable for this site

1. Obtain estimated values from Moschetti et al (2017) graphs (below)

$Z_{1.0}$: **400** meters

$Z_{2.5}$: **2700** meters

(Use 30 for vertical scale & 40 for horizontal scale measurements)



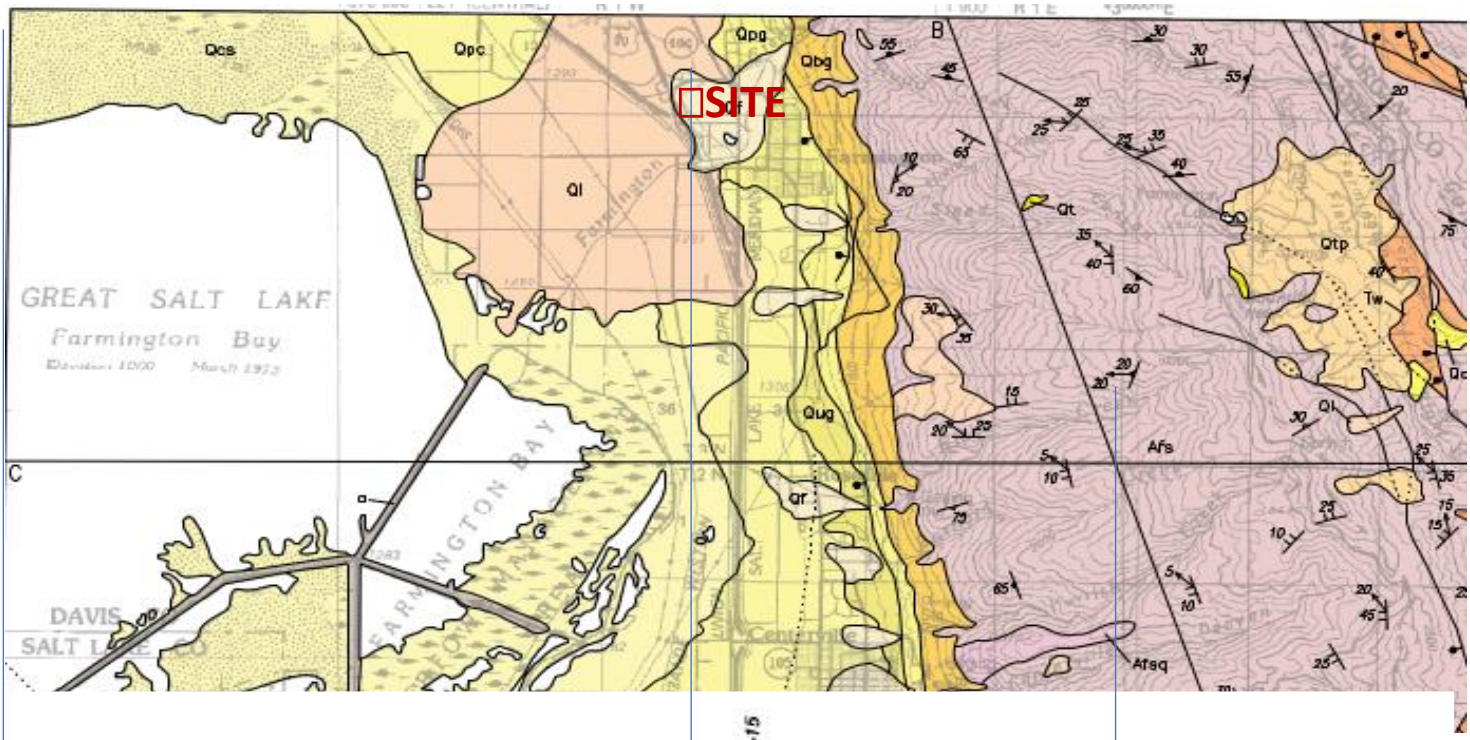
2. Obtain values by interpolating/extrapolating from site geophysical survey:

	depth, ft		Vs, fps		
	121.4		1176		
	150		1227		
extrapolated depth @ 1.0 km/s (3281 fps)=	1301.9	ft	=	396.8	meters
extrapolated depth @ 2.5 km/s (8202 fps)=	4061.5	ft	=	1237.9	meters

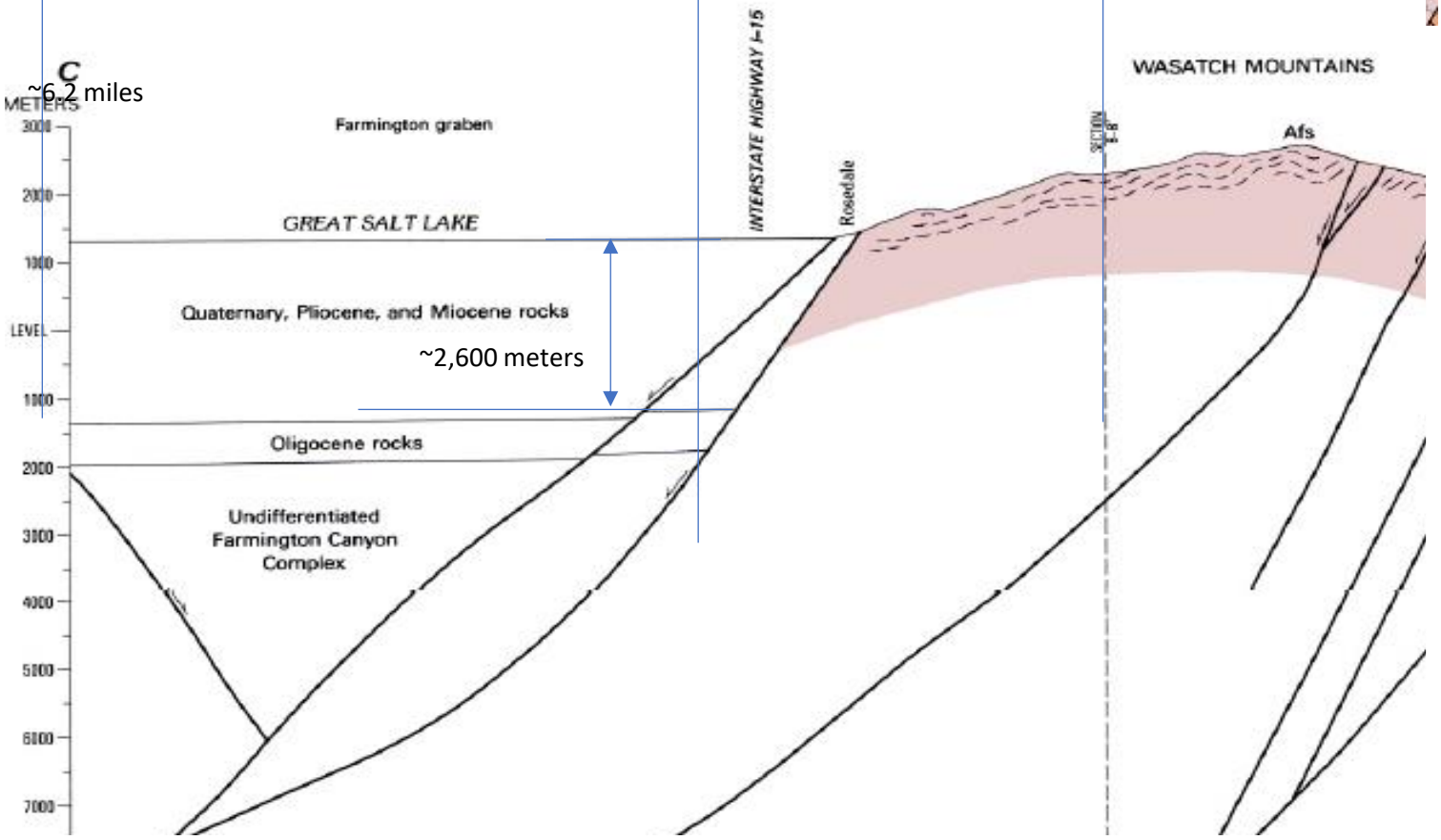
$Z_{1.0}$ = **400** meters

$Z_{2.5}$ = **1240** meters

3. Estimated values from geological cross-section (Bryant, B., 1990, Geologic Map of the Salt Lake City 30' x 60' Quadrangle, North-Central Utah and Uinta County, Wyoming, USGS Map I-1944):



~6.2 miles



Vs = 2500 m/s occurs in hard rock, and we presume this shear wave velocity is reached at the depth to the Oligocene bedrock, at a depth of approximately 2,600 meters,
which is close to the value obtained from the Moschetti graphs above:

$Z_{2.5}$ = **8520** feet
= **2600** meters

4. Average of above values to use for input:

$Z_{1.0}$ = **400** meters

$Z_{2.5}$ = **2650** meters (the extrapolated value of 1240 meters was not used for the average)

= **2.65** km

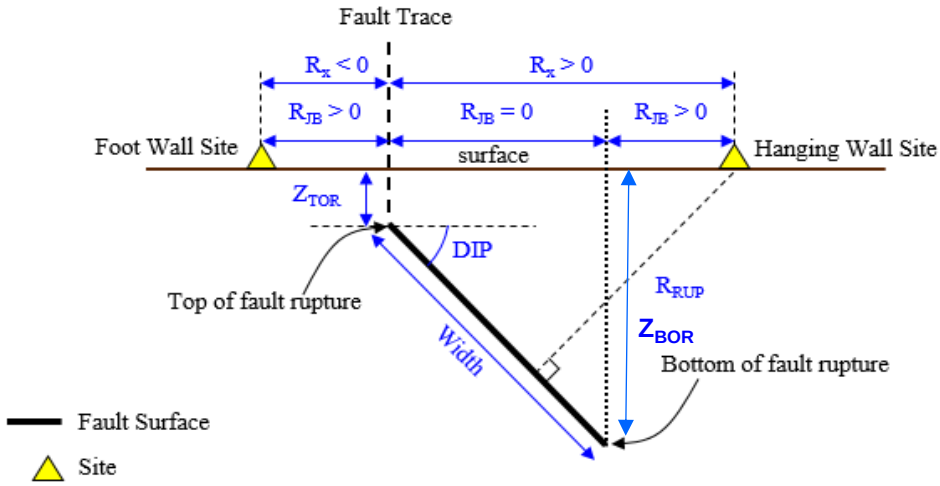
Fault Characteristics and Distances:

For the DSHA, ASCE 7-16 §20.2.2 states, "The largest such acceleration calculated for the characteristic earthquakes on all known active faults active faults within the region shall be used." A single, controlling fault rupture scenario will produce the largest acceleration near the natural period of the building at the site, and will have the most overall influence on the DSHA.

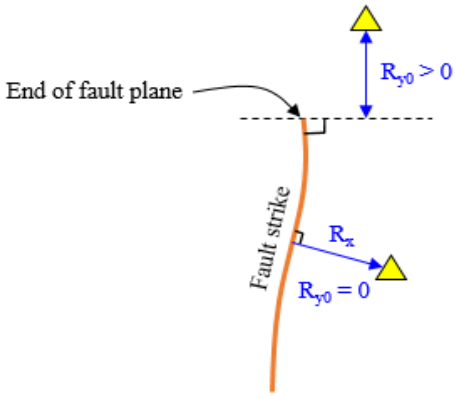
Controlling Fault = Wasatch fault, Weber section [2351e]

Foot or Hanging Wall Site? **Hanging Wall**

See diagram below for values/distances:



Profile View of Normal Fault Geometry



Plan View of Fault Geometry

Fault Sources From EZ-FRISK (200 km radius):

Source	Region	Closest Determin. Fault Distance	Mag./Mech.	Dip Angle/ Dips To	Site Lies	Contribution %
CEUS Gridded Source	USGS 2014 CEUS Gridded Source	0	0.0000 Strike Slip	90.0000 --	Above	0.97
Shallow - Extensional Gridded	USGS 2014 WUS Gridded Source	0	8.0000 N|SS	90.0000 --	Above	10.48
Wasatch fault, Weber section [2351e]	USGS 2014 Utah	0.74	7.1600 Normal	35-65 W	SW	69.49
Salt Lake City - Wasatch Fault Source Model	USGS 2014 Utah	0.78	7.4010 N|SS	35-90 W	Above	17.01
Morgan fault [2353abc]	USGS 2014 Utah	11.67	6.5200 Normal	35-65 W	SW	0.78
West Valley fault [2386]	USGS 2014 Utah	18.84	6.5000 Normal	35-65 E	N	0.16
W65G35 West Valley (Wasatch 65) fault (dip 35	USGS 2014 Utah	19.22	6.5000 Normal	35.0000 E	N	0.03
W50G35 West Valley (Wasatch 50) fault (dip 35	USGS 2014 Utah	19.63	6.5000 Normal	35.0000 E	N	0.08
W35G35 West Valley (Wasatch 35) fault (dip 35	USGS 2014 Utah	20.21	6.5000 Normal	35.0000 E	N	0.02
W65G50 West Valley (Wasatch 65) fault (dip 50	USGS 2014 Utah	20.81	6.5000 Normal	50.0000 E	N	0.07
W50G50 West Valley (Wasatch 50) fault (dip 50	USGS 2014 Utah	20.94	6.5000 Normal	50.0000 E	N	0.17
W35G50 West Valley (Wasatch 35) fault (dip 50	USGS 2014 Utah	21.32	6.5000 Normal	50.0000 E	N	0.05
W50G65 West Valley (Wasatch 50) fault (dip 65	USGS 2014 Utah	22.45	6.5000 Normal	65.0000 E	N	0.04
W65G65 West Valley (Wasatch 65) fault (dip 65	USGS 2014 Utah	22.45	6.5000 Normal	65.0000 E	N	0.02
W35G65 West Valley (Wasatch 35) fault (dip 65	USGS 2014 Utah	22.46	6.5000 Normal	65.0000 E	N	0.01
Great Salt Lake fault zone, Antelope Island [236	USGS 2014 Utah	30.45	6.9300 Normal	35-65 W	NE	0.18
Great Salt Lake fault zone, Fremont Island s [23	USGS 2014 Utah	34.02	6.8300 Normal	35-65 SW	E	0.06
Wasatch fault, Brigham City section [2351d]	USGS 2014 Utah	34.9	6.9500 Normal	35-65 W	SE	0.29

Oquirrh-Southern Oquirrh Mountains fault [239	USGS 2014 Utah	44.31	7.1700	Normal	35-65 W	NE	0.03
East Cache fault zone [2352abc]	USGS 2014 Utah	48.95	7.3100	Normal	35-65 W	S	0.02
Great Salt Lake fault zone, Promontory secti [23	USGS 2014 Utah	51.84	7.0900	Normal	35-65 SW	SE	0.01
Wasatch fault, Provo section [2351g]	USGS 2014 Utah	55.45	7.2700	Normal	35-65 W	N	0.04
West Cache fault, Wellsville section [2521c]	USGS 2014 Utah	65.52	6.6000	Normal	35-65 NE	S	0
Stansbury fault zone [2395]	USGS 2014 Utah	72.1	7.0900	Normal	35-65 W	NE	0
Bear River fault zone [730]	USGS 2014 Wyoming	72.47	6.9000	Normal	35-65	W	0
West Cache fault zone, Junction Hills fault [252	USGS 2014 Utah	78.3	6.7000	Normal	35-65 NE	S	0
Hansel Valley fault [2358]	USGS 2014 Utah	89.85	6.6000	Normal	35-65 E	SE	0
Eastern Bear Lake fault [2364abc]	USGS 2014 Idaho	91.38	7.2900	Normal	35-65 W	S	0
North Promontory fault [2361]	USGS 2014 Nevada	96.7	6.7300	Normal	35-65 W	SE	0
Strawberry fault [2412]	USGS 2014 Utah	97.07	6.9200	Normal	35-65 W	NW	0
Wasatch fault, Nephi section [2351h]	USGS 2014 Utah	100.23	7.0100	Normal	35-65 W	N	0
West Cache fault, Clarkston section [2521a]	USGS 2014 Utah	101.62	6.6600	Normal	35-65 E	S	0
Rock Creek fault [729]	USGS 2014 Wyoming	116.95	6.9500	Normal	35-65 W	SW	0
Wasatch fault, Levan section [2351i]	USGS 2014 Utah	149.83	6.8300	Normal	35-65 W	N	0
Joes Valley fault zone [2455]	USGS 2014 Utah	160.39	7.0200	Normal	35-65 W	N	0
Grand Valley fault [726c]	USGS 2014 Wyoming	182.6	7.1000	Normal	35-65 W	S	0

Fault Sources From 2014 National Seismic Hazard Maps (200 km search radius):

Distance (km)	Name	State	Geologic Slip Rate (mm/year)	Dip (degrees)	Dip Dir	Slip Sense	Rupture Top (km)	Rupture Bottom (km	Length (km)
1.3	Wasatch fault, Weber section	UT	2.48	50/65/35	W	normal	0	15	63
15.7	Wasatch fault, Salt Lake City se	UT	1.7	50/65/35	W	normal	0	15	52
19.9	Morgan fault	UT	0.03	50/65/35	W	normal	0	15	17
23.6	West Valley fault	UT	0.52	50/65/35	E	normal	0	15	17
30.5	Great Salt Lake fault zone, Ante	UT	0	50/65/35	W	normal	0	15	39
34.1	Great Salt Lake fault zone, Fren	UT	0	50/65/35	W	normal	0	15	32
38.4	Wasatch fault, Brigham City sec	UT	2.09	50/65/35	W	normal	0	15	41
44.4	Oquirrh-Southern Oquirrh Mou	UT	0.26	50/65/35	W	normal	0	15	63
49.1	East Cache fault zone	UT	0.26	50/65/35	W	normal	0	15	83
52.0	Great Salt Lake fault zone, Pron	UT	0	50/65/35	W	normal	0	15	54
55.4	Wasatch fault, Provo section	UT	2.61	50/65/35	W	normal	0	15	77
65.5	West Cache fault, Wellsville sec	UT	0.13	50/65/35	NE	normal	0	15	20
72.3	Stansbury fault zone	UT	0.52	50/65/35	W	normal	0	15	54
78.3	West Cache fault zone, Junctior	UT	0.26	50/65/35	NE	normal	0	15	25
92.6	Bear River fault zone	WY	1.96	50/65/35	W	normal	0	15	37
96.8	North Promontory fault	UT	0.26	50/65/35	W	normal	0	15	27
97.1	Strawberry fault	UT	0.13	50/65/35	W	normal	0	15	39
101.6	West Cache fault, Clarkston sec	UT	0.52	50/65/35	E	normal	0	15	23
101.6	Wasatch fault, Nephi section	UT	2.22	50/65/35	W	normal	0	15	46
102.4	Eastern Bear Lake fault	ID	0.78	50/65/35	W	normal	0	15	81
105.2	Hansel Valley fault	UT	0.16	50/65/35	E	normal	0	15	13
125.3	Rock Creek fault	WY	0.81	50/65/35	W	normal	0	15	41
149.7	Wasatch fault, Levan section	UT	0.39	50/65/35	W	normal	0	15	32
164.8	Joes Valley fault zone	UT	0.26	50/65/35	W	normal	0	15	47

Fault Source Distances:

1.01 = R_x = Horizontal distance from top of rupture measured perpendicular to fault strike (km) (see map below)

0 = R_{y0} = The horizontal distance off the end of the rupture measured parallel to strike (km)

Fault Magnitude

EZFRISK considers three fault rupture scenarios for the Wasatch fault: full segment rupture, partial segment rupture, and rupture of the entire length of the fault. For our GMHA, all three fault rupture scenarios for the Wasatch fault source are used for estimating the probabilistic ground motion at the site. However, for deterministic ground motions, the largest characteristic magnitude is Mw=7.4 for rupture of the entire ±357 km length of the Wasatch fault (all segments rupture simultaneously). The paleoseismic data suggests these various segments of the Wasatch fault have ruptured somewhat independently (https://earthquake.usgs.gov/cfusion/qfault/show_report_AB_archive.cfm?fault_id=2351&section_id=f). Accordingly, it is our opinion this highly unlikely fault rupture scenario should not be included for estimation of deterministic ground motions, but should instead be divided into individual fault segments.

Summary of Fault Characteristics and Distances:

7.15 = M_w = Moment magnitude (enter for individual fault segment)

0.74 = R_{RUP} = Closest distance to coseismic rupture (km)

0 = R_{JB} = Closest distance to surface projection of coseismic rupture (km)

1.01 = R_x = Horizontal distance from top of rupture measured perpendicular to fault strike (km)

0 = R_{y0} = The horizontal distance off the end of the rupture measured parallel to strike (km)

237 = $V_{S,30}$ = Shear wave velocity in upper 30 meters (m/s)

1 = Hanging Wall Site (Fhw)

50 = Dip = Average dip of rupture plane (degrees)

0 = Z_{TOR} = Depth to top of coseismic rupture (km) (Usually 0)

15 = Z_{BOR} = Depth to bottom of coseismic rupture (km)

0.4 = $Z_{1.0}$ = Depth to shear wave velocity of 1.0 km/sec (km)

2.65 = $Z_{2.5}$ = Depth to shear wave velocity of 2.5 km/sec (km)

19.58 = W = Fault rupture width (km) = $(Z_{TOB} - Z_{TOR})/\sin(Dip)$

Analysis

21.2 RISK-TARGETED MAXIMUM CONSIDERED EARTHQUAKE (MCE_R) GROUND MOTION HAZARD ANALYSIS

The requirements of Section 21.2 shall be satisfied where a ground motion hazard analysis is performed or required by Section 11.4.7. The ground motion hazard analysis shall account for the regional tectonic setting, geology, and seismicity; the expected recurrence rates and maximum magnitudes of earthquakes on known faults and source zones; the characteristics of ground motion attenuation near source effects, if any, on ground motions; and the effects of subsurface site conditions on ground motions. The characteristics of subsurface site conditions shall be considered either using attenuation relations that represent regional and local geology or in accordance with Section 21.1. The analysis shall incorporate current seismic interpretations, including uncertainties for models and parameter values for seismic sources and ground motions. If the spectral response accelerations predicted by the attenuation relations do not represent the maximum response in the horizontal plane, then the response spectral accelerations computed from the hazard analysis shall be scaled by factors to increase the motions to the maximum response. If the attenuation relations predict the geometric mean or similar metric of the two horizontal components, then the scale factors shall be 1.1 for periods less than or equal to 0.2 s, 1.3 for a period of 1.0 s, and 1.5 for periods greater than or equal to 5.0 s, unless it can be shown that other scale factors more closely represent the maximum response, in the horizontal plane, to the geometric mean of the horizontal components. Scale factors between these periods shall be obtained by linear interpolation. The analysis shall be documented in a report.

Probabilistic Spectra

21.2.1 Probabilistic (MCE_R) Ground Motions. The probabilistic spectral response accelerations shall be taken as the spectral response accelerations in the direction of maximum horizontal response represented by a 5% damped acceleration response spectrum that is expected to achieve a 1% probability of collapse within a 50-year period. For the purpose of this standard, ordinates of the probabilistic ground motion response spectrum shall be determined by either Method 1 of Section 21.2.1.1 or Method 2 of Section 21.2.1.2.

21.2.1.1 Method 1. At each spectral response period for which the acceleration is computed, ordinates of the probabilistic ground motion response spectrum shall be determined as the product of the risk coefficient, C_R, and the spectral response acceleration from a 5% damped acceleration response spectrum that has a 2% probability of exceedance within a 50-year period. The value of the risk coefficient, C_R, shall be determined using values of C_{RS} and C_{R1} from Figs. 22-18 and 22-19, respectively. At spectral response periods less than or equal to 0.2 s, C_R shall be taken as equal to C_{RS}. At spectral response periods greater than or equal to 1.0 s, C_R shall be taken as equal to C_{R1}. At response spectral periods greater than 0.2 s and less than 1.0 s, C_R shall be based on linear interpolation of C_{RS} and C_{R1}.

EZ-FRISK Software

The *EZ-FRISK* software fulfills the requirements outlined in ASCE 7-16 Section 21.2 regarding ground motion hazard analyses (GMHA). The input values given above and the USGS 2014 (Peterson et al) seismic source database were used in *EZ-FRISK* for the GMHA. The resulting values are the mean spectral accelerations in the horizontal plane (RotD50), which must be corrected for maximum spectral accelerations in the horizontal plane (fault normal, or RotD100) conditions. As indicated in Section 21.2, other appropriat scaling factors than those provided can be used. Accordingly, we used the scaling factors provided by Shahi and Baker (2014

As indicated above, since *EZ-FRISK* include simultaneous rupture of all segments for the entire Wasatch fault, we also utilized the NGA West2 worksheet/spreadsheet provided by PEER to obtain spectral values for the DSHA analysis using the following single segment of the Wasatch fault:

Weber Segment of Wasatch Fault

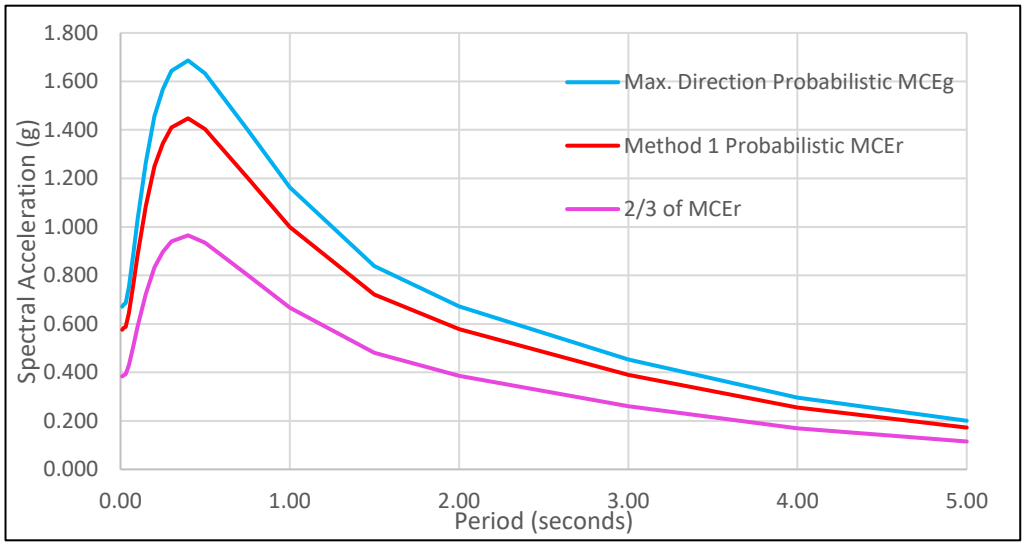
Probabilistic Spectra Results from *EZ-FRISK*:

Probabilistic Spectra results for EZ-FRISK 8.07 Build 044
0
ANNUAL FREQUENCY OF EXCEEDANCE: 4.041e-004
ROTD50 MEAN VALUES AS SHOWN BELOW

From OSHPD Web Tool (attached):

C_{RS} = 0.858
C_{R1} = 0.860

Period (s)	RotD50 MCE_G S_a (g)	Shahi and Baker (2014) Dir. Factors	Max. Direct. Probablstc MCE_G S_a (g)	Risk Coefficients C_R	Method 1 Probablstc MCE_R S_a (g)	2/3 of MCE_R S_a (g)
0.01	0.563	1.190	0.670	0.8580	0.575	0.383
0.02	0.571	1.190	0.680	0.8580	0.583	0.389
0.03	0.576	1.190	0.685	0.8580	0.588	0.392
0.05	0.632	1.190	0.751	0.8580	0.645	0.430
0.075	0.748	1.190	0.890	0.8580	0.764	0.509
0.10	0.864	1.190	1.028	0.8580	0.882	0.588
0.15	1.055	1.200	1.266	0.8580	1.086	0.724
0.20	1.204	1.210	1.457	0.8580	1.250	0.833
0.25	1.284	1.220	1.566	0.8581	1.344	0.896
0.30	1.347	1.220	1.643	0.8583	1.410	0.940
0.40	1.371	1.230	1.686	0.8585	1.448	0.965
0.50	1.328	1.230	1.633	0.8588	1.403	0.935
0.75	1.129	1.240	1.400	0.8594	1.203	0.802
1.00	0.938	1.240	1.163	0.8600	1.000	0.667
1.50	0.676	1.240	0.838	0.8600	0.721	0.481
2.00	0.542	1.240	0.672	0.8600	0.578	0.385
3.00	0.363	1.250	0.454	0.8600	0.390	0.260
4.00	0.235	1.260	0.296	0.8600	0.255	0.170
5.00	0.159	1.260	0.200	0.8600	0.172	0.115



Deterministic Spectra (NGA West2 Spreadsheet)

The NGA West2 Spreadsheet is used as part of the deterministic hazard seismic analysis, using 5% damping and the input parameters listed above, for the Weber Segment of Wasatch Fault (see results below).

PACIFIC EARTHQUAKE ENGINEERING RESEARCH CENTER

WEIGHTED AVERAGE of 2014 NGA WEST-2 GMPEs

Last updated: 04 14 15

by Emel Seyhan, PhD, PEER & UCLA -- email: emel.seyhan@gmail.com, peer_center@berkeley.edu

This excel file will be updated as necessary on the PEER website to fix any typos or other errors. Please check the website frequently for new versions at: http://peer.berkeley.edu/ngawest2/databases/

Legend	Pre-defined option	Main input variable	Calculated variable	Input var. flag	Internal variable

GMPE averaging	**Geometric**	*Weighted average of the natural logarithm of the spectral values*

GMPEs	**ASK14**	**BSSA14**	**CB14**	**CY14**	**I14**
Weight	0.25	0.25	0.25	0.25	0

# of std. dev.	1
Damping ratio (%)	5

Modification factors are calculated in Sheet DSF

ASK14	Abrahamson & Silva & Kamai 2014 NGA West-2 Model
BSSA14	Boore & Stewart & Seyhan & Atkinson 2014 NGA West-2 Model
CB14	Campbell & Bozorgnia 2014 NGA West-2 Model
CY14	Chiou & Youngs 2014 NGA West-2 Model
I14	Idriss 2014 NGA West-2 Model

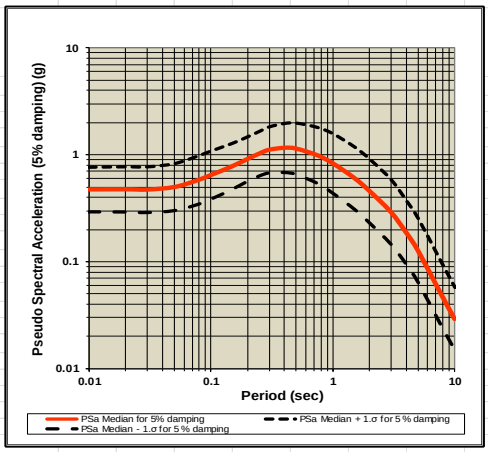
RotD50 Horizontal Component of PGA, PGV and *IMs*

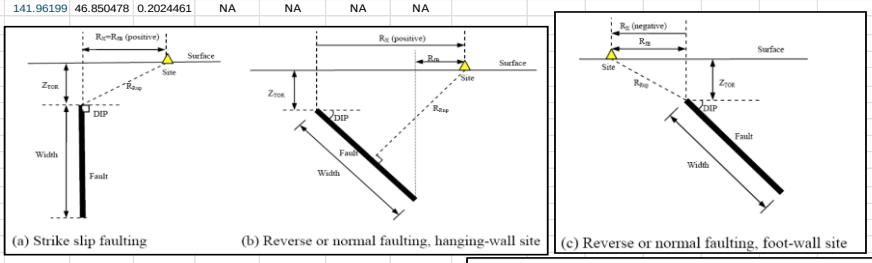
Input variables	Errors and warnings
M_w	
7.15	
R_{RUP} (km)	
0.74	
R_{JB} (km)	
0	
R_X (km)	
1.01	
Ry0 (km)	*If unknown use 999*
0	
V_{S30} (m/sec)	
237	
U (BSSA13)	*1: Unspecified fault mech.*
0	
F_{RV}	*1: reverse fault*
0	
F_{NM}	*1: normal fault*
1	
F_{HW}	*1: hanging wall side*
1	
Dip (deg)	
50	
Z_{TOR} (km)	*If unknown use 999*
0	
Z_{HYP} (km)	*If unknown use 999*
999	
$Z_{1.0}$ (km)	*If unknown use 999*
0.4	
$Z_{2.5}$ (km)	*If unknown use 999*
2.65	
W (km)	*If unknown use 999*
19.58	
Vs30Flag	
measured	*Choose options for V_{s30} from the list*
F_{AS}	
no	*Aftershock effect is not applicable.*
Region	
Global	*Choose region from the list*

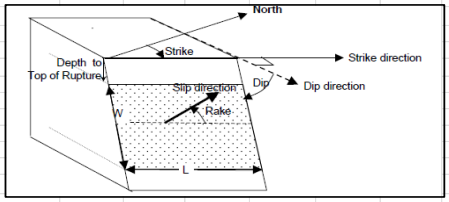
Calculated Variables/Flags

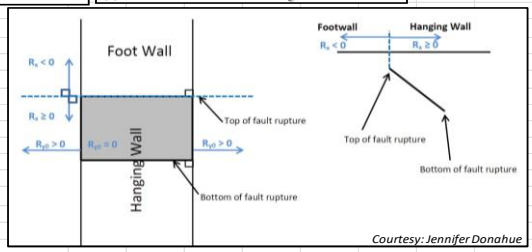
ΔDPP	*Always 0 for median calcs.*
0	
PGA_r (g)	
0.369	
Z_{BOT} (km) (CB14)	*Enter for default W calcs*
15	
SS	
0	*auto calculated*
$V_{s30Flag}$	
1	*measured*
F_{AS}	
0	*Aftershock effect is not applicable.*
Region	
0	*Global*
Option for Sa value	
1	*Weighted average of the natural logarithm of the spectral values*

GMP	T (s)	Baseline: 5% Damping: PSa Median for 5% damping	PSa Median + 1.σ for 5% damping	PSa Median - 1.σ for 5% damping	S_d Median for 5% damping	User defined: 5% Damping: PSa Median for 5% damping	PSa Median + 1.σ for 5 % damping	PSa Median - 1.σ for 5 % damping	Sd Median for 5 % damping
PSa (g), S_d (cm)	0.01	0.4753707	0.7679563	0.2942581	0.00118	0.4753707	0.7679563	0.2942581	0.00118
	0.02	0.4768693	0.7755649	0.2932112	0.0047351	0.4768693	0.7755649	0.2932112	0.0047351
	0.03	0.4742341	0.7748305	0.2902544	0.010595	0.4737599	0.7740557	0.2899642	0.0105844
	0.05	0.5008655	0.8298939	0.3022871	0.0310833	0.5003646	0.829064	0.3019849	0.0310522
	0.075	0.5699662	0.9574699	0.3392916	0.0795862	0.5711061	0.9593848	0.3399702	0.0797454
	0.1	0.6467829	1.084479	0.385741	0.1605554	0.6480764	1.086648	0.3865125	0.1608765
	0.15	0.7816916	1.2807607	0.4770928	0.4366006	0.783255	1.2833222	0.478047	0.4374738
	0.2	0.9150119	1.4752802	0.5675171	0.9085589	0.9159269	1.4767555	0.5680847	0.9094675
	0.25	1.0224494	1.649879	0.633624	1.5863105	1.0285841	1.6597783	0.6374257	1.5958283
	0.3	1.1140197	1.8270331	0.6792651	2.4888671	1.1140197	1.8270331	0.6792651	2.4888671
	0.4	1.1610626	1.9669863	0.6853461	4.6114974	1.1622237	1.9689533	0.6860315	4.6161088
	0.5	1.1419996	1.9849651	0.6570207	7.0871612	1.1431416	1.9869501	0.6576777	7.0942484
	0.75	0.989945	1.8085031	0.5418797	13.822924	0.9889551	1.8066946	0.5413378	13.809101
	1	0.8346303	1.5844452	0.439654	20.718604	0.832961	1.5812763	0.4387747	20.677167
	1.5	0.6087273	1.1910818	0.3111029	33.999432	0.6087273	1.1910818	0.3111029	33.999432
	2	0.4615592	0.9181111	0.2320382	45.830406	0.4601745	0.9153568	0.2313421	45.692915
	3	0.2933454	0.5886618	0.1461816	65.537247	0.2927588	0.5874845	0.1458893	65.406173
	4	0.1885878	0.3748404	0.0948813	74.903116	0.1885878	0.3748404	0.0948813	74.903116
	5	0.1285715	0.256092	0.0645496	79.790485	0.1280572	0.2550677	0.0642914	79.471323
	7.5	0.0535874	0.1064464	0.026977	74.825784	0.053641	0.1065529	0.027004	74.90061
	10	0.0294746	0.0580003	0.0149784	73.166875	0.0293862	0.0578263	0.0149335	72.947375
PGA (g)	0	0.4725272	0.7628596	0.2926908	0.001173	0.4753707	0.7679563	0.2942581	0.00118
PGV (cm/s)	-1	81.553584	141.96199	46.850478	0.2024461	NA	NA	NA	NA









Definition of Parameters

- ***Damping ratio*** = Viscous damping ratio (%) See Sanaz et al. (2012) PEER Report
- ***PSA*** = Pseudo-absolute acceleration response spectrum (g)
- ***PGA*** = Peak ground acceleration (g)
- ***PGV*** = Peak ground velocity (cm/s)
- S_d = Relative displacement response spectrum (cm)
- M_w = Moment magnitude
- R_{RUP} = Closest distance to coseismic rupture (km), used in ASK13, CB13 and CY13. See Figures a, b and c for illustation
- R_{JB} = Closest distance to surface projection of coseismic rupture (km). See Figures a, b and c for illustation
- R_X = Horizontal distance from top of rupture measured perpendicular to fault strike (km). See Figures a, b and c for illustation
- R_{y0} = The horizontal distance off the end of the rupture measured parallel to strike (km)
- V_{S30} = The average shear-wave velocity (m/s) over a subsurface depth of 30 m
- ***U*** = Unspecified-mechanism factor: 1 for unspecified; 0 otherwise
- F_{RV} = Reverse-faulting factor: 0 for strike slip, normal, normal-oblique; 1 for reverse, reverse-oblique and thrust
- F_{NM} = Normal-faulting factor: 0 for strike slip, reverse, reverse-oblique, thrust and normal-oblique; 1 for normal
- F_{HW} = Hanging-wall factor: 1 for site on down-dip side of top of rupture; 0 otherwise
- ***Dip*** = Average dip of rupture plane (degrees)
- Z_{TOR} = Depth to top of coseismic rupture (km)
- Z_{HYP} = Hypocentral depth from the earthquake
- $Z_{1.0}$ = Depth to Vs=1 km/sec
- $Z_{2.5}$ = Depth to Vs=2.5 km/sec
- ***W*** = Fault rupture width (km)
- $V_{s30flag}$ = 1 for measured, 0 for inferred Vs30
- F_{AS} = 0 for mainshock; 1 for aftershock
- ***Region*** = Specific regions considered in the models, Click on Region to see codes
- ***ΔDPP*** = Directivity term, direct point parameter; uses 0 for median predictions
- PGA_r ***(g)*** = Peak ground acceleration on rock (g), this specific cell is updated in the cell for BSSA14 and CB14, for others it is taken account for in the macros
- Z_{BOT} ***(km)*** = The depth to the bottom of the seismogenic crust
- Z_{BOR}***(km)*** = The depth to the bottom of the rupture plane
- ***SS*** = 1 for strike slip, automatically updated in the cell

Input variables with defaults (If entered 999 as input):

Red colored value: The value is used in the code when input is unknown

DEFAULTs	USER defined	ASK14	BSSA14	CB14	CY14	I14
W (km)	19.58			19.531		
$Z_{1.0}$ (km)	0.400	0.400			0.496	
$\delta Z_{1.0}$ (km)	-0.097		-0.097			
$Z_{2.5}$ (V_{S30}=1100)(km)	2.650			0.398		
$Z_{2.5}$ (V_{S30})(km)	2.650			2.301		
Z_{hyp} (km)	999.00			10.265		
Z_{tor} (km)	0.00			0.039	0.039	
Z_{BOR} (km)	-			15.000		

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Scale Deterministic Spectra to Obtain Maximum Acceleration in the Horizontal Plane

The results from the NGA-West2 spreadsheet shown above are calculated as the mean spectral accelerations in the horizontal plane (RotD50). ASCE 7-16 Section 21.2 (see above) requires that maximum accelerations in the horizontal plane (RotD100) be used for the spectral response. Section 21.2 also provides default directivity scaling factors, but allows the use of other appropriate scaling factors. For our analysis, we used the scaling factors presented by Shahi and Baker (2014). Following are the results from the spreadsheet for 5% damping, the directivity scaling factors and the resulting 84th percentile maximum direction (RotD100) values.

GMP	Baseline: 5% Damping					
T (s)	PSa Median for 5% damping	PSa Median + 1.σ for 5% damping*	PSa Median - 1.σ for 5% damping	S_d Median for 5% damping	Shahi & Baker(2014) Dir.Factors	84th %tile Maximum Direction Sa
0.01	0.47537075	0.76795629	0.29425808	0.00118005	1.19	0.914
0.02	0.4768693	0.77556485	0.29321123	0.00473506	1.19	0.923
0.03	0.47423409	0.7748305	0.29025442	0.01059502	1.19	0.922
0.05	0.5008655	0.82989387	0.30228715	0.03108332	1.19	0.988
0.075	0.5699662	0.95746985	0.33929159	0.07958624	1.19	1.139
0.1	0.64678287	1.08447905	0.38574105	0.16055537	1.19	1.291
0.15	0.78169159	1.28076067	0.47709284	0.43660057	1.2	1.537
0.2	0.91501193	1.47528024	0.56751715	0.9085589	1.21	1.785
0.25	1.02244943	1.64987899	0.63362395	1.58631048	1.22	2.013
0.3	1.11401968	1.82703313	0.6792651	2.48886712	1.22	2.229
0.4	1.16106262	1.96698628	0.68534611	4.61149735	1.23	2.419
0.5	1.14199963	1.98496513	0.65702069	7.08716122	1.23	2.442
0.75	0.989945	1.80850306	0.5418797	13.8229244	1.24	2.243
1	0.8346303	1.58444522	0.43965404	20.7186038	1.24	1.965
1.5	0.60872734	1.19108179	0.31110288	33.9994324	1.24	1.477
2	0.46155916	0.9181111	0.23203822	45.8304065	1.24	1.138
3	0.29334544	0.58866184	0.14618163	65.5372472	1.25	0.736
4	0.18858779	0.37484043	0.09488132	74.9031158	1.26	0.472
5	0.12857151	0.25609202	0.06454959	79.7904848	1.26	0.323
7.5	0.05358737	0.10644641	0.02697701	74.8257842	1.28	0.136
10	0.02947462	0.05800029	0.01497843	73.1668751	1.29	0.075

PSa (g), S_d (cm)

*84th percentile

If the maximum deterministic acceleration is less than $1.5F_a$, Section 21.2.2 in ASCE 7-16 Supplement 1 requires that the deterministic spectra be scaled "up" so that the maximum acceleration = $1.5F_a$.

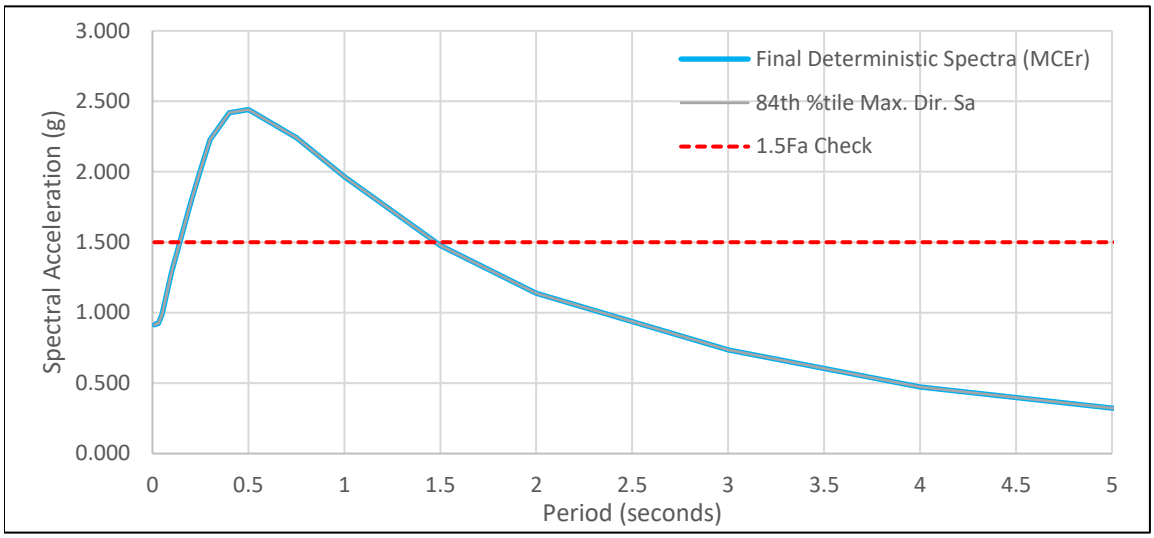
21.2.2 Deterministic (MCE_R) Ground Motions.

The deterministic spectral response acceleration at each period shall be calculated as an 84th-percentile 5% damped spectral response acceleration in the direction of maximum horizontal response computed at that period. The largest such acceleration calculated for the characteristic earthquakes on all known active faults within the region shall be used. If the largest spectral response acceleration of the resulting deterministic ground motion response spectrum is less than $1.5F_a$, then this response spectrum shall be scaled by a single factor such that the maximum response spectral acceleration equals $1.5F_a$. For Site Classes A, B, C and D, Fa shall be determined using Table 11.4.1, with the value of S_s taken as 1.5; for Site Class E, F_a shall be taken as 1.0. ~~The ordinates of the deterministic ground motion response spectrum shall not be taken as lower than the corresponding ordinates of the response spectrum determined in accordance with Fig. 21.2-1. For the purposes of calculating the ordinates.~~

Site Class =	D	(see above)
F_a =	1.000	(From ASCE 7-16 Table 11.4.1)
$1.5F_a$ =	1.500	
Max S_a (g) =	2.442	(84th %tile Maximum Direction Sa)
Scale Factor =	1.000	($1.5F_a$ / Max S_a [if<$1.5F_a$])

Note: The Scaled 84th percentile maximum direction S_a values are also the Final Deterministic Spectra (MCE_R) (see graph below).

T (s)	Maximum Direction	Scaled 84th %tile Max Direction S_a
0.01	0.914	0.914
0.02	0.923	0.923
0.03	0.922	0.922
0.05	0.988	0.988
0.075	1.139	1.139
0.1	1.291	1.291
0.15	1.537	1.537
0.2	1.785	1.785
0.25	2.013	2.013
0.3	2.229	2.229
0.4	2.419	2.419
0.5	2.442	2.442
0.75	2.243	2.243
1	1.965	1.965
1.5	1.477	1.477
2	1.138	1.138
3	0.736	0.736
4	0.472	0.472
5	0.323	0.323
7.5	0.136	0.136
10	0.075	0.075



21.3 DESIGN RESPONSE SPECTRUM

The design spectral response acceleration at any period shall be determined from Eq. (21.3-1):

$$S_a = \frac{2}{3} S_{aM} \qquad (21.3\text{-}1)$$

where S_{aM} is the MCE spectral response acceleration obtained from Section 21.1 or 21.2.

The design spectral response acceleration at any period shall not be taken as less than 80% of S_a determined in accordance with Section 11.4.6, where F_a and F_v are determined as follows:

(i) for Site Class A, B, and C: F_a and F_v are determined using Tables 11.4-1 and 11.4-2, respectively;
(ii) for Site Class D: F_a is determined using Table 11.4-1, and F_v is taken as 2.4 for $S_1 < 0.2$ or 2.5 for $S_1 \geq 0.2$; and
(iii) for Site Class E: F_a is determined using Table 11.4-1 for $S_S < 1.0$ or taken as 1.0 for $S_S \geq 1.0$, and F_v is taken as 4.2 for $S_1 \leq 0.1$ or 4.0 for $S_1 > 0.1$.

For sites classified as Site Class F requiring site-specific analysis in accordance with Section 11.4.7, the design spectral response acceleration at any period shall not be less than 80% of S_a determined for Site Class E in accordance with Section 11.4.5.

11.4.6 Design Response Spectrum. Where a design response spectrum is required by this standard and site-specific ground motion procedures are not used, the design response spectrum curve shall be developed as indicated in Fig. 11.4-1 and as follows:

1. For periods less than T_0, the design spectral response acceleration, S_a, shall be taken as given in Eq. (11.4-5):

$$S_a = S_{DS}\left(0.4 + 0.6\frac{T}{T_0}\right) \qquad (11.4\text{-}5)$$

2. For periods greater than or equal to T_0 and less than or equal to T_S, the design spectral response acceleration, S_a, shall be taken as equal to S_{DS}.
3. For periods greater than T_S and less than or equal to T_L, the design spectral response acceleration, S_a, shall be taken as given in Eq. (11.4-6):

$$S_a = \frac{S_{D1}}{T} \qquad (11.4\text{-}6)$$

4. For periods greater than T_L, S_a shall be taken as given in Eq. (11.4-7):

$$S_a = \frac{S_{D1} T_L}{T^2} \qquad (11.4\text{-}7)$$

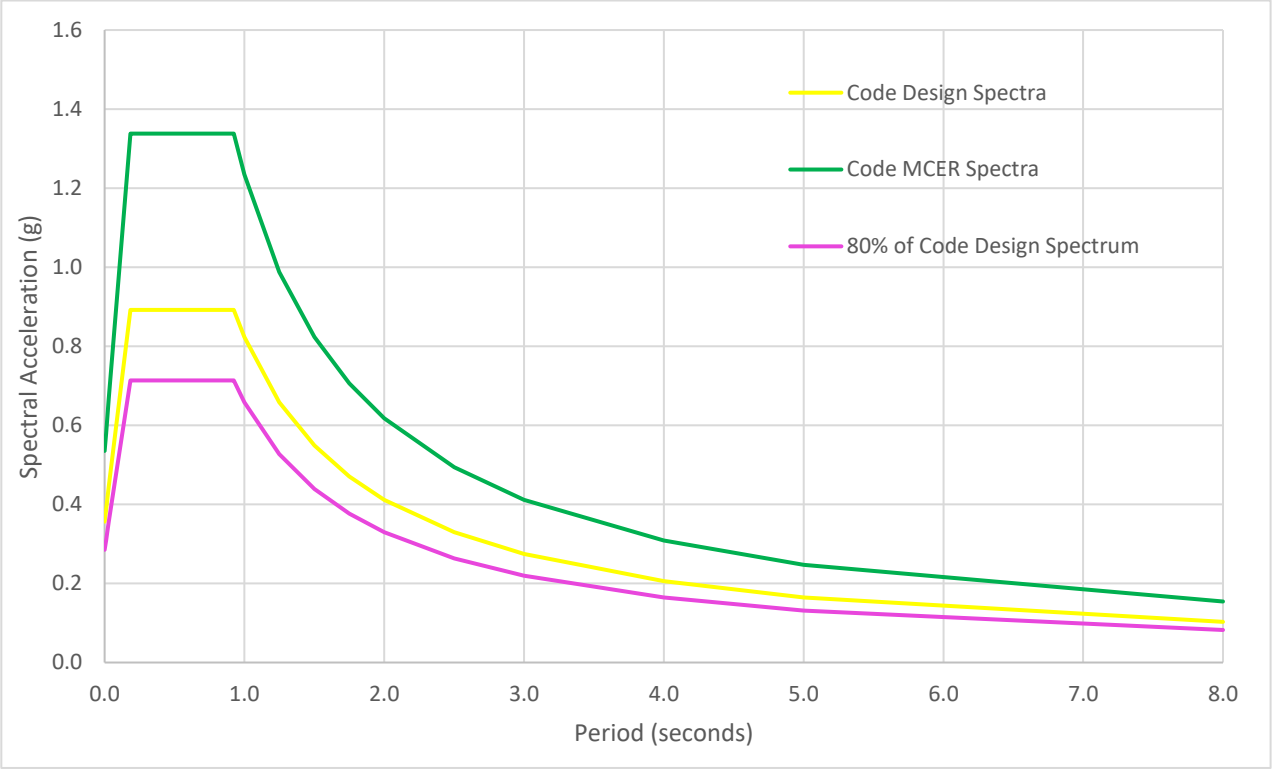
S_S =	1.338	(see above)
S_1 =	0.494	(see above)
F_a =	1.000	(see Section 21.3)
F_v =	2.500	(see Section 21.3)
S_{MS} =	1.338	(=S_S * F_a)
S_{M1} =	1.235	(=S_1 * F_v)
S_{DS} =	0.892	(=2/3 * S_{MS})
S_{D1} =	0.823	(=2/3 * S_{M1})
T_o =	0.185	(=0.2S_{D1}/S_{DS})
T_S =	0.923	(=S_{D1}/S_{DS})
T_L =	8	(from ASCE 7-16 Fig. 22-14)

	Period (s)	Code Design Spectra	Code MCE_R Spectra	80% of Code Des. Spectra
(PGA)	0.00	0.357	0.535	0.285
	0.01	0.386	0.579	0.309
	0.02	0.415	0.622	0.332
	0.03	0.444	0.666	0.355
(T_o)	0.185	0.892	1.338	0.714
(T_s)	0.923	0.892	1.338	0.714
	1.00	0.823	1.235	0.659
	1.00	0.823	1.235	0.659
	1.25	0.659	0.988	0.527
	1.50	0.549	0.823	0.439
	1.75	0.470	0.706	0.376
	2.00	0.412	0.618	0.329
	2.50	0.329	0.494	0.263
	3.00	0.274	0.412	0.220
	4.00	0.206	0.309	0.165
	5.00	0.165	0.247	0.132
(T_L)	8.00	0.103	0.154	0.082

$$S_a = \frac{S_{D1} T_L}{T^2} \qquad (11.4\text{-}7)$$

where

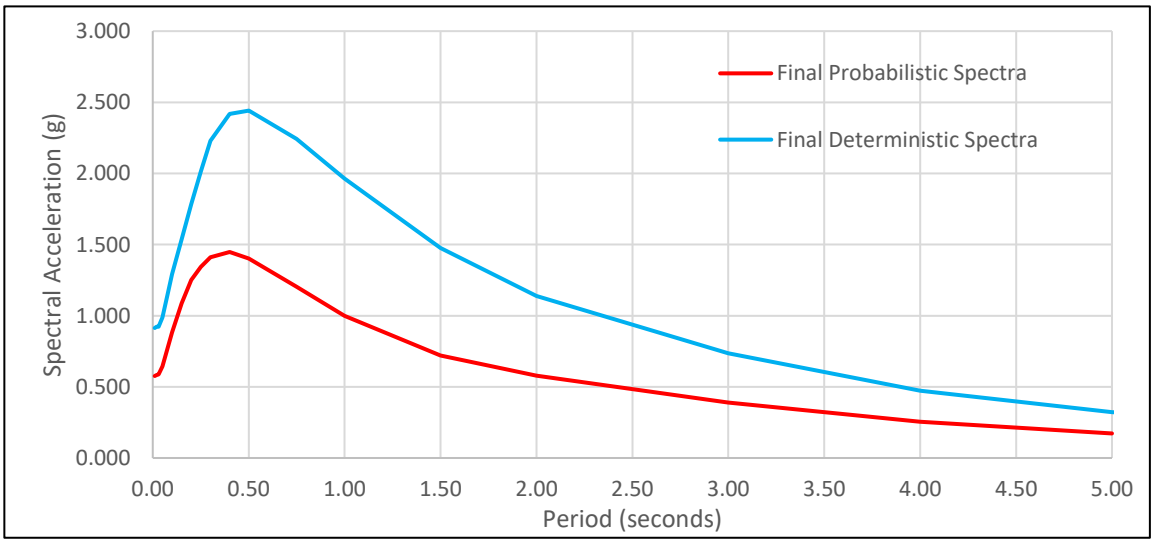
S_{DS} = the design spectral response acceleration parameter at short periods
S_{D1} = the design spectral response acceleration parameter at a 1-s period
T = the fundamental period of the structure, s
$T_0 = 0.2(S_{D1}/S_{DS})$
$T_S = S_{D1}/S_{DS}$, and
T_L = long-period transition period(s) shown in Figs. 22-14 through 22-17.

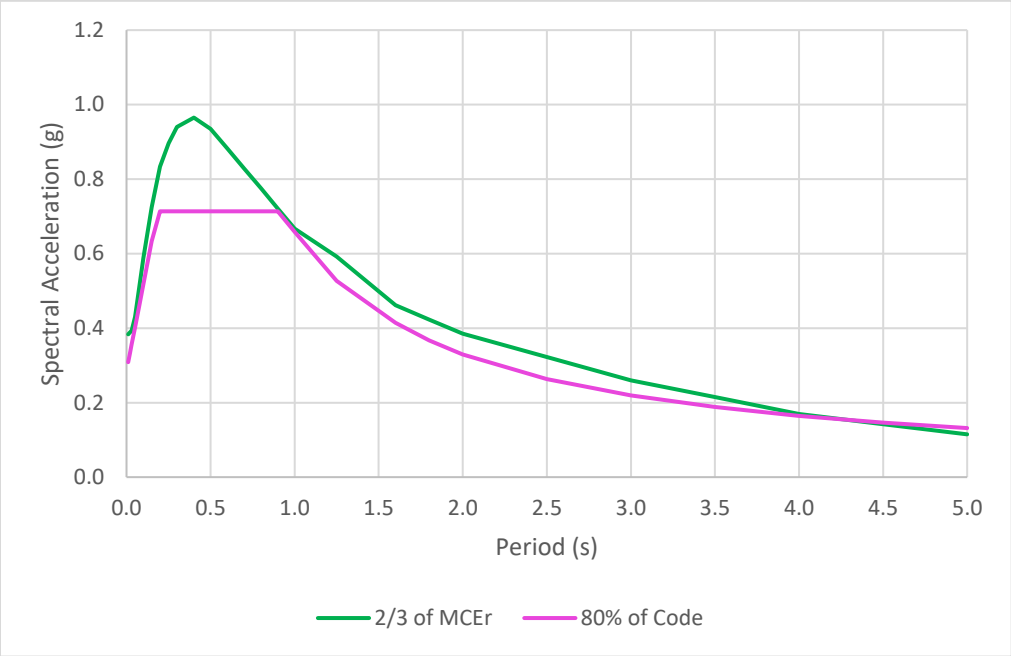


Calculate Final MCE $_R$ and Design Response Spectra

21.2.3 Site-Specific MCE$_R$. The site-specific MCE$_R$ spectral response acceleration at any period, S_{aM}, shall be taken as the lesser of the spectral response accelerations from the probabilistic ground motions of Section 21.2.1 and the deterministic ground motions of Section 21.2.2.

The Probabilistic spectra is the lesser of the two, and thus is used as the site-specific spectra for developing the final design spectra.





Period (s)	2/3 of MCE_R S_a (g)	80% of Code Des. Spectra	Design Spectra S_a (g)
0.01	0.383	0.309	0.383
0.02	0.389	0.332	0.389
0.03	0.392	0.355	0.392
0.05	0.430	0.401	0.430
0.075	0.509	0.459	0.509
0.10	0.588	0.517	0.588
0.15	0.724	0.633	0.724
0.20	0.833	0.714	0.833
0.25	0.896	0.714	0.896
0.30	0.940	0.714	0.940
0.40	0.965	0.714	0.965
0.50	0.935	0.714	0.935
0.60	0.882	0.714	0.882
0.70	0.829	0.714	0.829
0.80	0.775	0.714	0.775
0.90	0.721	0.714	0.721
1.00	0.667	0.659	0.667
1.25	0.592	0.527	0.592
1.25	0.592	0.527	0.592
1.60	0.461	0.414	0.461
1.80	0.423	0.367	0.423
2.00	0.385	0.329	0.385
2.50	0.323	0.263	0.323
3.00	0.260	0.220	0.260
3.50	0.215	0.188	0.215
4.00	0.170	0.165	0.170
4.50	0.142	0.146	0.146
5.00	0.115	0.132	0.132

The maximum value at each period between 2/3 of the MCEr spectra and 80% of the code design spectra is used for the design spectra.

21.4 DESIGN ACCELERATION PARAMETERS

Where the site-specific procedure is used to determine the design ground motion in accordance with Section 21.3, the parameter S_{DS} shall be taken as 90% of the maximum spectral acceleration, S_a, obtained from the site-specific spectrum, at any period within the range from 0.2 to 5 s, inclusive. The parameter S_{D1} shall be taken as the maximum value of the product, TS_a, for periods from 1 to 2 s for sites with $v_{s,30} > 1{,}200$ ft/s ($v_{s,30} > 365.76$ m/s) and for periods from 1 to 5 s for sites with $v_{s,30} \le 1{,}200$ ft/s ($v_{s,30} \le 365.76$ m/s). The parameters S_{MS} and S_{M1} shall be taken as 1.5 times S_{DS} and S_{D1}, respectively. The values so obtained shall not be less than 80% of the values determined in accordance with Section 11.4.3 for S_{MS} and S_{M1} and Section 11.4.5 for S_{DS} and S_{D1}.

For use with the equivalent lateral force procedure, the site-specific spectral acceleration, S_a, at T shall be permitted to replace S_{D1}/T in Eq. (12.8-3) and $S_{D1}T_L/T^2$ in Eq. (12.8-4). The parameter S_{DS} calculated per this section shall be permitted to be used in Eqs. (12.8-2), (12.8-5), (15.4-1), and (15.4-3). The mapped value of S_1 shall be used in Eqs. (12.8-6), (15.4-2), and (15.4-4).

Period T (sec)	Design S_a (g)	S_a (0.2 to 5 sec)	$T*S_a$ (1 to 2 sec)	$T*S_a$ (1 to 5 sec)
0.01	0.383			
0.02	0.389			
0.03	0.392			
0.05	0.430			
0.08	0.509			
0.10	0.588			
0.15	0.724			
0.20	0.833	0.833		
0.25	0.896	0.896		
0.30	0.940	0.940		
0.40	0.965	0.965		
0.50	0.935	0.935		
0.60	0.882	0.882		
0.70	0.829	0.829		
0.80	0.775	0.775		
0.90	0.721	0.721		
1.00	0.667	0.667	0.667	0.667
1.25	0.592	0.592	0.740	0.740
1.25	0.592	0.592	0.740	0.740
1.60	0.461	0.461	0.738	0.738
1.80	0.423	0.423	0.762	0.762
2.00	0.385	0.385	0.771	0.771
2.50	0.323	0.323		0.807
3.00	0.260	0.260		0.780
3.50	0.215	0.215		0.752
4.00	0.170	0.170		0.679
4.50	0.146	0.146		0.659
5.00	0.132	0.132		0.659
	Max =	**0.965**	**0.771**	**0.807**

21.5 MAXIMUM CONSIDERED EARTHQUAKE GEOMETRIC MEAN (MCE_G) PEAK GROUND ACCELERATION

21.5.1 Probabilistic MCE_G Peak Ground Acceleration. The probabilistic geometric mean peak ground acceleration shall be taken as the geometric mean peak ground acceleration with a 2% probability of exceedance within a 50-year period.

21.5.2 Deterministic MCE_G Peak Ground Acceleration. The deterministic geometric mean peak ground acceleration shall be calculated as the largest 84th-percentile geometric mean peak ground acceleration for characteristic earthquakes on all known active faults within the site region. The deterministic geometric mean peak ground acceleration shall not be taken as lower than 0.5 F_{PGA}, where F_{PGA} is determined using Table 11.8-1 with the value of PGA taken as 0.5g.

21.5.3 Site-Specific MCE_G Peak Ground Acceleration. The site-specific MCE_G peak ground acceleration, PGA_M, shall be taken as the lesser of the probabilistic geometric mean peak ground acceleration of Section 21.5.1 and the deterministic geometric mean peak ground acceleration of Section 21.5.2. The site-specific MCE_G peak ground acceleration shall not be taken as less than 80% of PGA_M determined from Eq. (11.8-1).

Determine S_{DS} and S_{MS}:

$S_{a,max}$ =	0.965	g (from 0.2 to 5 sec)
S_{DS} =	0.869	g (= 0.9 * $S_{a,max}$)
0.8*S_{DS} from code =	0.714	g (from Sect. 11.4.5)
S_{DS} =	0.869	g (max. of the two)
S_{MS} =	1.303	g (= 1.5 * S_{DS})

Determine S_{D1} and S_{M1}:

$V_{S,30}$ =	777	ft/s (use 1 to 5 sec)
S_{D1} = Max. T *S_a =	0.807	g (from 1 to 5 sec)
0.8*S_{D1} from code =	0.659	g (from Sect. 11.4.5)
S_{D1} =	0.807	g (max. of the two)
S_{M1} =	1.210	g (= 1.5 * S_{DS})

Determine PGA_M:

Probabilistic MCE_G PGA =	0.575	g
Deterministic F_{PGA} =	1.100	(Table 11.8-1 @ 0.5g)
½ of Deterministic F_{PGA} =	0.550	
Deterministic MCE_G PGA =	0.914	g
Site-Specific MCE_G PGA =	0.575	g (min. deter. & prob.
0.8 * PGA_M from equation 11.8-1 =	0.588	g (OSHPD webtool)
Design PGA_M =	0.588	g (max. of the two)

USGS web services were down for some period of time and as a result this tool wasn't operational, resulting in *timeout* error.
USGS web services are now operational so this tool should work as expected.

Farmington Regional Center

Latitude, Longitude: 40.9904, -111.9005

Date	7/2/2024, 5:37:56 PM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.338	MCE_R ground motion. (for 0.2 second period)
S_1	0.494	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.338	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	0.892	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.611	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.673	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.338	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.548	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.857	Factored deterministic acceleration value. (0.2 second)
S1RT	0.494	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.56	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	1.25	Factored deterministic acceleration value. (1.0 second)
PGAd	1.111	Factored deterministic acceleration value. (Peak Ground Acceleration)
PGA_{UH}	0.611	Uniform-hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration
C_{RS}	0.864	Mapped value of the risk coefficient at short periods
C_{R1}	0.882	Mapped value of the risk coefficient at a period of 1 s
C_V	1.368	Vertical coefficient