

Beaver Valley (40.62° N, 80.43° E), Control Point Hazard

SA (g)	AFE 0.5 Hz	AFE 1 Hz	AFE 2.5 Hz	AFE 5 Hz	AFE 10 Hz	AFE 25 Hz	AFE 100 Hz
0.001000	6.130490e-03	9.633616e-03	1.392452e-02	1.466204e-02	1.474165e-02	1.442106e-02	1.320269e-02
0.001122	6.071736e-03	9.492419e-03	1.392010e-02	1.466196e-02	1.474093e-02	1.442106e-02	1.320269e-02
0.001259	5.875186e-03	9.261076e-03	1.388986e-02	1.466164e-02	1.473886e-02	1.442106e-02	1.320269e-02
0.001413	5.577633e-03	8.931725e-03	1.380435e-02	1.466051e-02	1.473341e-02	1.442097e-02	1.320269e-02
0.001585	5.261996e-03	8.528407e-03	1.365578e-02	1.465724e-02	1.471405e-02	1.441738e-02	1.320222e-02
0.001778	4.953599e-03	8.085765e-03	1.343897e-02	1.464933e-02	1.464672e-02	1.437757e-02	1.319109e-02
0.001995	4.653302e-03	7.629894e-03	1.316066e-02	1.463301e-02	1.451768e-02	1.423301e-02	1.311374e-02
0.002239	4.360337e-03	7.175678e-03	1.283065e-02	1.460328e-02	1.433914e-02	1.399941e-02	1.288275e-02
0.002512	4.073777e-03	6.728181e-03	1.245042e-02	1.455307e-02	1.411638e-02	1.372439e-02	1.249471e-02
0.002818	3.792663e-03	6.288665e-03	1.202237e-02	1.447160e-02	1.385200e-02	1.341124e-02	1.202997e-02
0.003162	3.516264e-03	5.857906e-03	1.155237e-02	1.434496e-02	1.354567e-02	1.305700e-02	1.152246e-02
0.003548	3.244287e-03	5.435977e-03	1.104649e-02	1.416203e-02	1.319668e-02	1.266176e-02	1.097646e-02
0.003981	2.976717e-03	5.023297e-03	1.050959e-02	1.392150e-02	1.280444e-02	1.222645e-02	1.039685e-02
0.004467	2.713892e-03	4.619843e-03	9.945619e-03	1.363004e-02	1.236918e-02	1.175234e-02	9.790020e-03
0.005012	2.456519e-03	4.226064e-03	9.358629e-03	1.329336e-02	1.189237e-02	1.124238e-02	9.162617e-03
0.005623	2.205705e-03	3.842397e-03	8.753000e-03	1.291289e-02	1.137698e-02	1.070127e-02	8.522031e-03
0.006310	1.962958e-03	3.469737e-03	8.133638e-03	1.248841e-02	1.082712e-02	1.013495e-02	7.876637e-03
0.007079	1.730090e-03	3.109436e-03	7.506046e-03	1.202024e-02	1.024815e-02	9.549678e-03	7.234903e-03
0.007943	1.509758e-03	2.762946e-03	6.876238e-03	1.150979e-02	9.646259e-03	8.952487e-03	6.604812e-03
0.008913	1.305722e-03	2.432567e-03	6.250687e-03	1.095977e-02	9.028496e-03	8.350268e-03	5.993507e-03
0.010000	1.118853e-03	2.120149e-03	5.636032e-03	1.037435e-02	8.402276e-03	7.750056e-03	5.407296e-03
0.011220	9.486456e-04	1.828341e-03	5.039051e-03	9.759072e-03	7.775164e-03	7.158244e-03	4.851287e-03
0.012589	7.949803e-04	1.558821e-03	4.466153e-03	9.120614e-03	7.154387e-03	6.580672e-03	4.329514e-03
0.014125	6.581333e-04	1.314332e-03	3.923325e-03	8.466597e-03	6.546687e-03	6.022151e-03	3.844642e-03
0.015849	5.382187e-04	1.096262e-03	3.415598e-03	7.805293e-03	5.958068e-03	5.486764e-03	3.398243e-03
0.017783	4.345164e-04	9.045324e-04	2.947022e-03	7.145287e-03	5.393586e-03	4.977623e-03	2.990683e-03
0.019953	3.460721e-04	7.382078e-04	2.520254e-03	6.495081e-03	4.857289e-03	4.496986e-03	2.620552e-03
0.022387	2.718047e-04	5.960269e-04	2.136785e-03	5.862674e-03	4.352207e-03	4.045993e-03	2.281051e-03
0.025119	2.107040e-04	4.759353e-04	1.796909e-03	5.255218e-03	3.880332e-03	3.621023e-03	1.962307e-03
0.028184	1.613000e-04	3.759729e-04	1.499904e-03	4.678751e-03	3.442686e-03	3.205019e-03	1.669438e-03
0.031623	1.219696e-04	2.938750e-04	1.243714e-03	4.138030e-03	3.039386e-03	2.797263e-03	1.412128e-03
0.035481	9.110873e-05	2.274025e-04	1.025334e-03	3.636457e-03	2.668139e-03	2.421387e-03	1.190485e-03
0.039811	6.731713e-05	1.742183e-04	8.411087e-04	3.176103e-03	2.326480e-03	2.084893e-03	1.000889e-03
0.044668	4.924221e-05	1.323133e-04	6.869532e-04	2.757793e-03	2.015890e-03	1.786294e-03	8.394135e-04
0.050119	3.570540e-05	9.971648e-05	5.589625e-04	2.381173e-03	1.737140e-03	1.523095e-03	7.023595e-04
0.056234	2.568666e-05	7.467470e-05	4.534704e-04	2.044767e-03	1.489410e-03	1.292652e-03	5.863900e-04
0.063096	1.836741e-05	5.564517e-05	3.669909e-04	1.746195e-03	1.270970e-03	1.092207e-03	4.885266e-04
0.070795	1.307651e-05	4.133134e-05	2.963591e-04	1.482750e-03	1.079721e-03	9.189589e-04	4.061316e-04
0.079433	9.290079e-06	3.065500e-05	2.388443e-04	1.251872e-03	9.133887e-04	7.701376e-04	3.369011e-04
0.089125	6.600461e-06	2.274143e-05	1.921448e-04	1.050984e-03	7.696261e-04	6.430482e-04	2.786732e-04
0.100000	4.701475e-06	1.690069e-05	1.543431e-04	8.775006e-04	6.460895e-04	5.351160e-04	2.286713e-04
0.112202	3.365573e-06	1.259757e-05	1.238398e-04	7.290324e-04	5.405105e-04	4.439426e-04	1.846151e-04
0.125893	2.426880e-06	9.427460e-06	9.929328e-05	6.031254e-04	4.507393e-04	3.674149e-04	1.474103e-04
0.141254	1.765152e-06	7.088745e-06	7.957802e-05	4.971333e-04	3.747788e-04	3.036473e-04	1.171440e-04
0.158489	1.295972e-06	5.357498e-06	6.376368e-05	4.084163e-04	3.108127e-04	2.507004e-04	9.268701e-05

0.177828	9.618680e-07	4.070412e-06	5.109214e-05	3.345088e-04	2.572060e-04	2.066722e-04	7.294747e-05
0.199526	7.212694e-07	3.107440e-06	4.094827e-05	2.731765e-04	2.124223e-04	1.699557e-04	5.706213e-05
0.223872	5.462642e-07	2.382884e-06	3.282895e-05	2.224381e-04	1.750130e-04	1.392849e-04	4.436015e-05
0.251189	4.173825e-07	1.834172e-06	2.632317e-05	1.805768e-04	1.437526e-04	1.137391e-04	3.427311e-05
0.281838	3.215003e-07	1.416551e-06	2.110308e-05	1.461253e-04	1.176806e-04	9.254165e-05	2.629623e-05
0.316228	2.491649e-07	1.097130e-06	1.690851e-05	1.178568e-04	9.600978e-05	7.499244e-05	2.001251e-05
0.354813	1.939132e-07	8.518980e-07	1.353456e-05	9.477705e-05	7.805720e-05	6.050528e-05	1.508774e-05
0.398107	1.512736e-07	6.630541e-07	1.082153e-05	7.602389e-05	6.322374e-05	4.859007e-05	1.126439e-05
0.446684	1.181032e-07	5.171150e-07	8.642404e-06	6.080501e-05	5.099500e-05	3.880746e-05	8.320914e-06
0.501187	9.203756e-08	4.041235e-07	6.895555e-06	4.843907e-05	4.094157e-05	3.079206e-05	6.074948e-06
0.562341	7.146975e-08	3.167574e-07	5.498380e-06	3.841545e-05	3.270175e-05	2.427609e-05	4.381184e-06
0.630957	5.527623e-08	2.492801e-07	4.381419e-06	3.035106e-05	2.596813e-05	1.900815e-05	3.118340e-06
0.707946	4.257937e-08	1.971242e-07	3.486138e-06	2.388946e-05	2.048277e-05	1.475753e-05	2.187994e-06
0.794328	3.265975e-08	1.566736e-07	2.763977e-06	1.870896e-05	1.603170e-05	1.134491e-05	1.512795e-06
0.891251	2.491444e-08	1.251682e-07	2.176285e-06	1.455498e-05	1.243857e-05	8.622514e-06	1.029350e-06
1.000000	1.885453e-08	1.004138e-07	1.694861e-06	1.123847e-05	9.557150e-06	6.471009e-06	6.874817e-07
1.122019	1.411746e-08	8.073812e-08	1.303024e-06	8.615028e-06	7.264021e-06	4.791812e-06	4.495313e-07
1.258925	1.043955e-08	6.494859e-08	9.920089e-07	6.559336e-06	5.454493e-06	3.495854e-06	2.871520e-07
1.412538	7.628322e-09	5.214153e-08	7.521456e-07	4.956940e-06	4.041173e-06	2.508048e-06	1.784725e-07
1.584893	5.515584e-09	4.167324e-08	5.694070e-07	3.712927e-06	2.951729e-06	1.766372e-06	1.073935e-07
1.778279	3.946715e-09	3.308331e-08	4.295841e-07	2.751322e-06	2.124820e-06	1.217404e-06	6.191050e-08
1.995262	2.792521e-09	2.603933e-08	3.217527e-07	2.012567e-06	1.506515e-06	8.188174e-07	3.365234e-08
2.238721	1.950803e-09	2.028294e-08	2.384670e-07	1.451919e-06	1.049891e-06	5.364278e-07	1.686068e-08
2.511886	1.342599e-09	1.561258e-08	1.747692e-07	1.033219e-06	7.163933e-07	3.399988e-07	7.366577e-09
2.818383	9.073499e-10	1.186246e-08	1.268893e-07	7.253534e-07	4.760107e-07	2.064337e-07	2.518374e-09
3.162278	6.450594e-10	9.221190e-09	9.600076e-08	5.341198e-07	3.322423e-07	1.361170e-07	1.266834e-09
3.548134	3.827689e-10	6.579919e-09	6.511221e-08	3.428862e-07	1.884739e-07	6.580025e-08	1.529340e-11

Beaver Valley (40.62° N, 80.43° E), Response Spectra

Frequency (Hz)	UHSR 1E-4 (g)	GMRS (g)	UHSR 1E-5 (g)
0.500000	0.034201	0.039477	0.077487
0.561009	0.034889	0.040705	0.080112
0.629463	0.036206	0.042731	0.084341
0.706269	0.038828	0.046420	0.091919
0.792447	0.042923	0.052026	0.103375
0.889140	0.046822	0.057260	0.114029
0.997631	0.049994	0.061557	0.122794
1.000000	0.050061	0.061647	0.122979
1.122019	0.053936	0.069884	0.141194
1.258925	0.058940	0.079897	0.163256
1.412538	0.065574	0.092274	0.190316
1.584893	0.071538	0.103783	0.215693
1.778279	0.080320	0.119559	0.250082
1.995262	0.091849	0.139614	0.293565
2.238721	0.105507	0.163413	0.345222
2.500000	0.125428	0.195828	0.414530
2.805046	0.153993	0.246129	0.524070

3.147313	0.193339	0.307785	0.654697
3.531344	0.237776	0.367496	0.775951
3.962233	0.279766	0.424734	0.892810
4.445698	0.316767	0.470796	0.984389
4.988156	0.344900	0.504962	1.051866
5.000000	0.345530	0.505722	1.053366
5.610092	0.354554	0.521915	1.088654
6.294627	0.355949	0.526667	1.099979
7.062688	0.341823	0.511509	1.071341
7.924466	0.323830	0.490510	1.030484
8.891397	0.310240	0.471109	0.990350
9.976312	0.308966	0.466903	0.980317
10.000000	0.309027	0.466955	0.980405
11.220185	0.304416	0.461068	0.968612
12.589254	0.308516	0.465562	0.977156
14.125375	0.307792	0.466651	0.980589
15.848932	0.309719	0.468732	0.984521
17.782794	0.300664	0.452468	0.949021
19.952623	0.287018	0.430815	0.903019
22.387211	0.269904	0.400671	0.837517
25.000000	0.250139	0.367658	0.766603
28.050461	0.239967	0.347581	0.722094
31.473135	0.230102	0.328636	0.680338
35.313439	0.222737	0.314748	0.649856
39.622330	0.215785	0.299834	0.616462
44.456985	0.209473	0.287825	0.590118
49.881558	0.205335	0.278599	0.569403
55.968028	0.199469	0.267656	0.545524
62.797161	0.193458	0.257352	0.523388
70.459573	0.186947	0.247452	0.502627
79.056942	0.179732	0.237399	0.481952
88.703347	0.171679	0.227620	0.462536
99.526793	0.164067	0.219329	0.446607
100.000000	0.152681	0.204471	0.416539