

## Appendix 6.1. IMPROVE Annual Mean Mass Trends

**Table 6.1.1. IMPROVE short-term (2000–2019) annual mean mass trends for sites that met completeness criteria (see Chapter 6). Species include sulfate ion (SO<sub>4</sub>), nitrate ion (NO<sub>3</sub>), organic carbon (OC), elemental carbon (EC), fine dust (FD), gravimetric PM<sub>2.5</sub> mass (FM), coarse mass (CM), and gravimetric PM<sub>10</sub> mass (PM<sub>10</sub>). The slope is derived from a linear trend regression, beginning and end year concentrations are based on the linear fit for year 2000 and 2019, the mean and median annual mean concentrations over the 2000-2019 period, standard deviation in the mean over the 2000-2019 period, and trend is the slope divided by the median concentration times 100.**

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	ACAD1	44.377	-68.261	-0.087	0.000	1.908	0.263	1.159	1.085	0.51	-7.98
SO4	AGTI1	33.464	-116.971	-0.078	0.000	1.893	0.413	1.291	1.114	0.46	-6.99
SO4	BADL1	43.743	-101.941	-0.028	0.000	1.102	0.572	0.782	0.837	0.18	-3.33
SO4	BALD1	34.058	-109.441	-0.017	0.000	0.694	0.364	0.535	0.521	0.11	-3.33
SO4	BAND1	35.78	-106.266	-0.019	0.000	0.767	0.399	0.567	0.583	0.13	-3.32
SO4	BIBE1	29.303	-103.178	-0.048	0.000	2.038	1.135	1.644	1.587	0.32	-2.99
SO4	BLIS1	38.976	-120.103	-0.010	0.000	0.504	0.318	0.416	0.416	0.07	-2.36
SO4	BOAP1	33.869	-106.852	-0.024	0.000	0.906	0.449	0.683	0.678	0.15	-3.55
SO4	BOND1	40.052	-88.373	-0.166	0.000	3.985	0.829	2.457	2.324	1.01	-7.15
SO4	BOWA1	47.947	-91.495	-0.047	0.000	1.326	0.441	0.876	0.883	0.28	-5.28
SO4	BRCA1	37.618	-112.174	-0.014	0.000	0.596	0.325	0.452	0.461	0.10	-3.09
SO4	BRID1	42.975	-109.758	-0.013	0.000	0.488	0.239	0.369	0.364	0.09	-3.61
SO4	BRIG1	39.465	-74.449	-0.212	0.000	4.231	0.200	2.547	2.215	1.28	-9.58
SO4	BRMA1	44.107	-70.729	-0.111	0.000	2.299	0.181	1.420	1.407	0.52	-7.92
SO4	CABA1	43.833	-70.064	-0.102	0.000	2.192	0.262	1.312	1.176	0.62	-8.64
SO4	CABI1	47.955	-115.671	-0.013	0.000	0.476	0.228	0.343	0.346	0.08	-3.77
SO4	CACO1	41.976	-70.024	-0.136	0.000	2.756	0.165	1.668	1.392	0.80	-9.80
SO4	CACR1	34.454	-94.143	-0.126	0.000	3.291	0.898	2.156	2.031	0.80	-6.20
SO4	CANY1	38.459	-109.821	-0.018	0.000	0.676	0.325	0.498	0.501	0.12	-3.68
SO4	CAPI1	38.302	-111.293	-0.016	0.000	0.620	0.318	0.473	0.469	0.11	-3.40
SO4	CEBL1	38.77	-99.763	-0.053	0.000	1.687	0.677	1.117	1.102	0.30	-4.83
SO4	CHAS1	28.748	-82.555	-0.139	0.000	3.273	0.640	2.192	1.957	0.89	-7.08
SO4	CHIR1	32.009	-109.389	-0.022	0.000	0.953	0.538	0.742	0.746	0.14	-2.93
SO4	COHU1	34.785	-84.627	-0.241	0.000	4.695	0.112	2.503	2.162	1.36	-11.16
SO4	CORI1	45.664	-121.001	-0.028	0.000	0.879	0.356	0.658	0.618	0.18	-4.45
SO4	CRLA1	42.896	-122.136	-0.006	0.000	0.347	0.240	0.278	0.294	0.05	-1.91
SO4	CRMO1	43.46	-113.555	-0.012	0.000	0.468	0.239	0.357	0.353	0.08	-3.42
SO4	DENA1	63.723	-148.967	-0.003	0.559	0.339	0.277	0.306	0.308	0.08	-1.07
SO4	DOME1	35.728	-118.138	-0.020	0.000	0.999	0.628	0.822	0.804	0.13	-2.43

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	DOSO1	39.105	-79.426	-0.225	0.000	4.630	0.362	2.766	2.496	1.39	-9.00
SO4	EGBE1	44.231	-79.783	-0.098	0.000	2.623	0.765	1.394	1.401	0.48	-6.98
SO4	EVER1	25.391	-80.681	-0.068	0.000	2.297	1.004	1.707	1.616	0.46	-4.21
SO4	FLAT1	47.773	-114.269	-0.011	0.000	0.447	0.240	0.331	0.327	0.06	-3.34
SO4	FOPE1	48.308	-105.102	-0.021	0.002	1.030	0.629	0.791	0.798	0.15	-2.65
SO4	FRRE1	39.706	-79.012	-0.253	0.000	5.233	0.426	2.657	2.324	1.35	-10.89
SO4	GAMO1	46.826	-111.711	-0.011	0.000	0.391	0.182	0.299	0.281	0.07	-3.92
SO4	GICL1	33.22	-108.235	-0.023	0.000	0.820	0.392	0.601	0.606	0.15	-3.72
SO4	GLAC1	48.511	-113.997	-0.017	0.000	0.615	0.283	0.452	0.449	0.11	-3.88
SO4	GRBA1	39.005	-114.216	-0.010	0.000	0.508	0.315	0.398	0.411	0.07	-2.46
SO4	GRCA2	36.066	-112.154	-0.017	0.000	0.671	0.349	0.511	0.510	0.11	-3.32
SO4	GRGU1	44.308	-71.218	-0.097	0.000	2.070	0.225	1.179	1.099	0.58	-8.84
SO4	GRR1	43.937	-91.405	-0.100	0.000	2.376	0.475	1.425	1.275	0.56	-7.84
SO4	GRSA1	37.725	-105.519	-0.016	0.000	0.611	0.304	0.447	0.457	0.10	-3.53
SO4	GRSM1	35.633	-83.942	-0.229	0.000	4.597	0.242	2.722	2.420	1.45	-9.47
SO4	GUMO1	31.833	-104.809	-0.029	0.000	1.244	0.700	1.019	0.972	0.21	-2.94
SO4	HAVO1	19.431	-155.258	-0.003	0.861	1.759	1.694	1.885	1.725	0.69	-0.20
SO4	HECA1	44.97	-116.844	-0.013	0.000	0.530	0.278	0.383	0.398	0.09	-3.34
SO4	HEGL1	36.614	-92.922	-0.137	0.000	3.407	0.799	2.122	2.035	0.86	-6.75
SO4	HOOV1	38.088	-119.177	-0.008	0.002	0.446	0.301	0.370	0.366	0.06	-2.09
SO4	IKBA1	34.34	-111.683	-0.022	0.000	0.890	0.479	0.670	0.685	0.14	-3.16
SO4	ISLE1	47.46	-88.149	-0.058	0.000	1.526	0.423	1.011	0.975	0.35	-5.95
SO4	JARB1	41.893	-115.426	-0.007	0.000	0.406	0.270	0.331	0.338	0.05	-2.13
SO4	JARI1	37.627	-79.512	-0.239	0.000	4.705	0.171	2.692	2.319	1.43	-10.29
SO4	JOSH1	34.07	-116.389	-0.028	0.000	1.047	0.506	0.788	0.776	0.20	-3.67
SO4	KAIS1	37.221	-119.155	-0.010	0.000	0.608	0.421	0.511	0.504	0.07	-1.95
SO4	KALM1	42.552	-124.059	-0.012	0.000	0.549	0.319	0.408	0.434	0.08	-2.79
SO4	LABE1	41.712	-121.507	-0.010	0.000	0.440	0.249	0.338	0.344	0.06	-2.93
SO4	LASU2	40.693	-92.006	-0.128	0.000	3.072	0.643	1.701	1.538	0.67	-8.31
SO4	LAVO1	40.54	-121.577	-0.009	0.000	0.457	0.281	0.368	0.369	0.06	-2.51
SO4	LIGO1	35.972	-81.933	-0.215	0.000	4.145	0.066	2.516	2.106	1.47	-10.19
SO4	LOST1	48.642	-102.402	-0.026	0.000	1.260	0.759	0.988	1.009	0.19	-2.62
SO4	MACA1	37.132	-86.148	-0.217	0.000	5.024	0.905	3.059	2.964	1.41	-7.31
SO4	MAVI1	41.331	-70.785	-0.147	0.000	3.079	0.294	1.662	1.466	0.83	-10.00
SO4	MEAD1	36.019	-114.068	-0.027	0.000	0.934	0.428	0.620	0.641	0.14	-4.15
SO4	MELA1	48.487	-104.476	-0.019	0.000	1.012	0.646	0.834	0.829	0.14	-2.32

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SO4	MEVE1	37.198	-108.491	-0.019	0.000	0.668	0.311	0.490	0.490	0.12	-3.83
SO4	MING1	36.972	-90.143	-0.172	0.000	4.019	0.758	2.466	2.302	1.08	-7.45
SO4	MOHO1	45.289	-121.784	-0.012	0.000	0.449	0.226	0.326	0.337	0.08	-3.47
SO4	MOMO1	41.821	-73.297	-0.144	0.000	2.926	0.183	1.655	1.410	0.86	-10.24
SO4	MONT1	47.122	-113.154	-0.011	0.000	0.441	0.235	0.335	0.338	0.07	-3.21
SO4	MOOS1	45.126	-67.266	-0.072	0.000	1.684	0.322	1.080	1.003	0.44	-7.15
SO4	MORA1	46.758	-122.124	-0.021	0.000	0.662	0.263	0.485	0.462	0.16	-4.55
SO4	MOZI1	40.538	-106.677	-0.014	0.000	0.520	0.259	0.401	0.389	0.09	-3.52
SO4	NEBR1	41.889	-100.339	-0.043	0.000	1.424	0.611	0.900	0.953	0.23	-4.49
SO4	NOAB1	44.745	-109.382	-0.012	0.000	0.467	0.234	0.345	0.351	0.08	-3.51
SO4	NOCA1	48.732	-121.065	-0.020	0.000	0.615	0.243	0.427	0.429	0.13	-4.56
SO4	NOCH1	45.65	-106.557	-0.014	0.000	0.666	0.406	0.515	0.515	0.08	-2.66
SO4	OKEF1	30.74	-82.128	-0.150	0.000	3.674	0.830	2.292	2.252	0.93	-6.64
SO4	OLYM1	48.007	-122.973	-0.023	0.000	0.747	0.309	0.500	0.505	0.13	-4.57
SO4	ORPI1	31.951	-112.802	-0.033	0.000	1.273	0.649	0.884	0.912	0.19	-3.61
SO4	PASA1	48.388	-119.927	-0.009	0.000	0.394	0.218	0.291	0.301	0.06	-3.07
SO4	PEFO1	35.078	-109.769	-0.021	0.000	0.810	0.420	0.594	0.615	0.13	-3.33
SO4	PENO1	44.948	-68.648	-0.080	0.000	1.887	0.373	0.951	0.891	0.35	-8.94
SO4	PINN1	36.483	-121.157	-0.025	0.000	1.012	0.534	0.744	0.773	0.16	-3.26
SO4	PMRF1	44.528	-72.869	-0.107	0.000	2.283	0.243	1.398	1.209	0.67	-8.88
SO4	PORE1	38.122	-122.909	-0.035	0.000	1.240	0.569	0.902	0.905	0.22	-3.91
SO4	PRIS1	46.696	-68.033	-0.069	0.000	1.605	0.293	0.999	0.915	0.41	-7.55
SO4	QUCI1	39.943	-81.338	-0.251	0.000	5.503	0.729	3.185	2.990	1.51	-8.40
SO4	QURE1	42.299	-72.335	-0.144	0.000	2.990	0.256	1.870	1.839	0.71	-7.83
SO4	QUVA1	33.294	-111.286	-0.024	0.002	1.109	0.657	0.917	0.919	0.13	-2.59
SO4	RAFA1	34.734	-120.007	-0.040	0.000	1.153	0.390	0.863	0.772	0.25	-5.21
SO4	REDW1	41.561	-124.084	-0.014	0.000	0.642	0.373	0.502	0.508	0.09	-2.79
SO4	ROMA1	32.941	-79.657	-0.169	0.000	4.010	0.805	2.532	2.407	1.11	-7.01
SO4	ROMO1	40.278	-105.546	-0.018	0.000	0.622	0.284	0.459	0.453	0.12	-3.93
SO4	SACR1	33.46	-104.404	-0.035	0.000	1.537	0.869	1.228	1.203	0.24	-2.92
SO4	SAGA1	34.297	-118.028	-0.028	0.000	1.013	0.473	0.734	0.715	0.20	-3.97
SO4	SAGO1	34.194	-116.913	-0.028	0.000	1.009	0.474	0.755	0.741	0.19	-3.80
SO4	SAGU1	32.175	-110.737	-0.027	0.000	1.104	0.582	0.817	0.829	0.17	-3.31
SO4	SAMA1	30.093	-84.161	-0.147	0.000	3.579	0.779	2.251	2.105	0.94	-7.00
SO4	SAPE1	36.014	-106.845	-0.017	0.000	0.642	0.316	0.469	0.471	0.11	-3.64
SO4	SAWE1	32.249	-111.218	-0.026	0.000	1.159	0.671	0.834	0.889	0.16	-2.89

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SO4	SAWT1	44.171	-114.927	-0.007	0.001	0.368	0.241	0.294	0.304	0.06	-2.19
SO4	SENE1	46.289	-85.95	-0.078	0.000	1.870	0.392	1.244	1.131	0.51	-6.88
SO4	SEQU1	36.489	-118.829	-0.029	0.000	1.289	0.739	1.074	1.014	0.19	-2.85
SO4	SHEN1	38.523	-78.435	-0.217	0.000	4.311	0.196	2.656	2.253	1.38	-9.61
SO4	SHMI1	37.304	-107.484	-0.019	0.000	0.678	0.311	0.421	0.446	0.09	-4.32
SO4	SHRO1	35.394	-82.774	-0.192	0.000	3.622	-0.023	2.119	1.800	1.20	-10.66
SO4	SIAN1	34.091	-110.942	-0.022	0.000	0.845	0.428	0.693	0.681	0.12	-3.23
SO4	SIME1	55.326	-160.506	-0.001	0.384	0.556	0.536	0.576	0.545	0.08	-0.19
SO4	SIPS1	34.343	-87.339	-0.208	0.000	4.504	0.558	2.783	2.531	1.35	-8.20
SO4	SNPA1	47.422	-121.426	-0.022	0.000	0.595	0.184	0.444	0.390	0.17	-5.55
SO4	STAR1	45.225	-118.513	-0.013	0.000	0.505	0.254	0.375	0.379	0.09	-3.48
SO4	SULA1	45.86	-114	-0.009	0.000	0.403	0.223	0.295	0.313	0.06	-3.02
SO4	SWAN1	35.451	-76.207	-0.162	0.000	3.798	0.720	2.254	2.178	0.99	-7.44
SO4	SYCA1	35.141	-111.969	-0.015	0.000	0.708	0.423	0.603	0.596	0.10	-2.52
SO4	TALL1	38.434	-96.56	-0.088	0.000	2.620	0.941	1.612	1.648	0.52	-5.36
SO4	THBA1	44.663	-105.287	-0.017	0.000	0.744	0.421	0.569	0.549	0.11	-3.10
SO4	THRO1	46.895	-103.378	-0.023	0.000	1.061	0.633	0.825	0.847	0.17	-2.66
SO4	THSI1	44.291	-122.043	-0.012	0.000	0.466	0.238	0.346	0.352	0.08	-3.41
SO4	TONT1	33.655	-111.107	-0.026	0.000	1.030	0.539	0.791	0.784	0.17	-3.30
SO4	TRCR1	62.315	-150.316	-0.006	0.075	0.359	0.243	0.307	0.295	0.08	-2.08
SO4	TRIN1	40.786	-122.805	-0.009	0.009	0.479	0.305	0.383	0.401	0.07	-2.28
SO4	ULBE1	47.582	-108.72	-0.013	0.000	0.689	0.446	0.559	0.567	0.10	-2.26
SO4	UPBU1	35.826	-93.203	-0.115	0.000	3.061	0.882	2.066	1.971	0.80	-5.82
SO4	VIIS1	18.336	-64.796	-0.007	0.344	1.043	0.909	0.984	0.983	0.14	-0.72
SO4	VILA1	40.969	-95.045	-0.100	0.000	2.619	0.727	1.589	1.524	0.57	-6.53
SO4	VOYA2	48.413	-92.829	-0.044	0.000	1.292	0.460	0.881	0.876	0.27	-5.00
SO4	WEMI1	37.659	-107.8	-0.015	0.000	0.560	0.272	0.409	0.416	0.10	-3.65
SO4	WHIT1	33.469	-105.535	-0.023	0.002	1.016	0.573	0.785	0.771	0.17	-3.02
SO4	WHPA1	46.624	-121.388	-0.012	0.000	0.380	0.159	0.287	0.270	0.08	-4.30
SO4	WHPE1	36.585	-105.452	-0.015	0.000	0.597	0.304	0.409	0.435	0.09	-3.55
SO4	WHRI1	39.154	-106.821	-0.014	0.000	0.479	0.217	0.353	0.348	0.08	-3.97
SO4	WICA1	43.558	-103.484	-0.022	0.000	0.858	0.444	0.628	0.651	0.14	-3.34
SO4	WIMO1	34.732	-98.713	-0.085	0.000	2.564	0.941	1.758	1.710	0.55	-5.00
SO4	YELL2	44.565	-110.4	-0.012	0.000	0.474	0.253	0.350	0.364	0.08	-3.20
SO4	YOSE1	37.713	-119.706	-0.013	0.000	0.689	0.449	0.582	0.569	0.10	-2.22
SO4	ZICA1	37.198	-113.151	-0.022	0.000	0.763	0.338	0.519	0.517	0.12	-4.33

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NO3	ACAD1	44.377	-68.261	-0.007	0.000	0.277	0.145	0.227	0.208	0.06	-3.33
NO3	AGTI1	33.464	-116.971	-0.057	0.000	1.401	0.312	1.002	0.828	0.42	-6.92
NO3	BADL1	43.743	-101.941	-0.004	0.028	0.317	0.240	0.292	0.277	0.05	-1.47
NO3	BALD1	34.058	-109.441	-0.002	0.007	0.139	0.097	0.119	0.117	0.02	-1.90
NO3	BAND1	35.78	-106.266	-0.005	0.002	0.208	0.118	0.163	0.160	0.04	-2.94
NO3	BIBE1	29.303	-103.178	-0.002	0.248	0.207	0.173	0.188	0.189	0.03	-0.94
NO3	BLIS1	38.976	-120.103	-0.005	0.000	0.179	0.088	0.146	0.133	0.03	-3.57
NO3	BOAP1	33.869	-106.852	-0.007	0.006	0.264	0.134	0.204	0.195	0.06	-3.51
NO3	BOND1	40.052	-88.373	-0.062	0.000	2.548	1.372	1.846	1.929	0.39	-3.21
NO3	BOWA1	47.947	-91.495	-0.009	0.005	0.491	0.324	0.421	0.403	0.11	-2.19
NO3	BRCA1	37.618	-112.174	-0.006	0.000	0.223	0.110	0.170	0.164	0.04	-3.63
NO3	BRID1	42.975	-109.758	-0.003	0.009	0.136	0.088	0.108	0.111	0.02	-2.31
NO3	BRIG1	39.465	-74.449	-0.017	0.000	0.940	0.615	0.786	0.769	0.12	-2.22
NO3	BRMA1	44.107	-70.729	-0.008	0.067	0.279	0.136	0.231	0.219	0.06	-3.43
NO3	CABA1	43.833	-70.064	-0.009	0.002	0.418	0.244	0.330	0.326	0.08	-2.82
NO3	CABI1	47.955	-115.671	-0.002	0.013	0.130	0.099	0.114	0.114	0.02	-1.43
NO3	CACO1	41.976	-70.024	-0.009	0.000	0.457	0.287	0.386	0.367	0.07	-2.43
NO3	CACR1	34.454	-94.143	-0.023	0.000	0.846	0.403	0.572	0.613	0.14	-3.81
NO3	CANY1	38.459	-109.821	-0.006	0.000	0.227	0.120	0.179	0.171	0.05	-3.30
NO3	CAPI1	38.302	-111.293	-0.006	0.000	0.231	0.111	0.180	0.168	0.05	-3.74
NO3	CEBL1	38.77	-99.763	-0.033	0.004	1.146	0.514	0.845	0.780	0.25	-4.26
NO3	CHAS1	28.748	-82.555	-0.005	0.003	0.380	0.279	0.334	0.327	0.04	-1.62
NO3	CHIR1	32.009	-109.389	-0.002	0.039	0.153	0.122	0.143	0.136	0.03	-1.20
NO3	COHU1	34.785	-84.627	-0.019	0.000	0.597	0.245	0.419	0.402	0.11	-4.61
NO3	CORI1	45.664	-121.001	-0.015	0.074	0.944	0.667	0.774	0.798	0.20	-1.83
NO3	CRLA1	42.896	-122.136	-0.001	0.151	0.076	0.056	0.077	0.065	0.03	-1.62
NO3	CRMO1	43.46	-113.555	-0.013	0.005	0.437	0.191	0.316	0.308	0.10	-4.21
NO3	DENA1	63.723	-148.967	-0.001	0.100	0.049	0.035	0.049	0.042	0.03	-1.85
NO3	DOME1	35.728	-118.138	-0.032	0.000	0.904	0.292	0.603	0.566	0.23	-5.70
NO3	DOSO1	39.105	-79.426	-0.007	0.028	0.451	0.322	0.383	0.383	0.06	-1.77
NO3	EGBE1	44.231	-79.783	-0.028	0.043	1.591	1.059	1.250	1.241	0.19	-2.26
NO3	EVER1	25.391	-80.681	-0.004	0.019	0.377	0.300	0.345	0.337	0.04	-1.20
NO3	FLAT1	47.773	-114.269	-0.004	0.008	0.154	0.088	0.120	0.116	0.03	-3.03
NO3	FOPE1	48.308	-105.102	-0.004	0.510	0.540	0.459	0.527	0.493	0.12	-0.86
NO3	FRRE1	39.706	-79.012	0.001	0.787	0.497	0.507	0.513	0.503	0.07	0.10
NO3	GAMO1	46.826	-111.711	-0.003	0.005	0.136	0.076	0.107	0.105	0.03	-3.01

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NO3	GICL1	33.22	-108.235	-0.001	0.086	0.102	0.086	0.099	0.094	0.02	-0.93
NO3	GLAC1	48.511	-113.997	-0.006	0.100	0.235	0.127	0.200	0.178	0.06	-3.19
NO3	GRBA1	39.005	-114.216	-0.004	0.000	0.142	0.074	0.110	0.106	0.02	-3.38
NO3	GRCA2	36.066	-112.154	-0.004	0.000	0.180	0.109	0.148	0.142	0.03	-2.64
NO3	GRGU1	44.308	-71.218	-0.003	0.031	0.168	0.118	0.147	0.142	0.03	-1.83
NO3	GRR11	43.937	-91.405	-0.060	0.000	2.181	1.046	1.571	1.524	0.34	-3.92
NO3	GRSA1	37.725	-105.519	-0.005	0.000	0.181	0.092	0.134	0.134	0.03	-3.48
NO3	GRSM1	35.633	-83.942	-0.011	0.000	0.445	0.228	0.352	0.331	0.09	-3.47
NO3	GUMO1	31.833	-104.809	-0.005	0.046	0.286	0.198	0.239	0.239	0.04	-1.92
NO3	HAVO1	19.431	-155.258	-0.001	0.039	0.078	0.056	0.067	0.066	0.01	-1.77
NO3	HECA1	44.97	-116.844	-0.012	0.033	0.377	0.156	0.334	0.261	0.15	-4.46
NO3	HEGL1	36.614	-92.922	-0.025	0.000	1.040	0.571	0.767	0.793	0.19	-3.11
NO3	HOOV1	38.088	-119.177	-0.002	0.075	0.131	0.100	0.117	0.114	0.03	-1.45
NO3	IKBA1	34.34	-111.683	-0.009	0.000	0.317	0.153	0.241	0.231	0.06	-3.73
NO3	ISLE1	47.46	-88.149	-0.010	0.006	0.488	0.298	0.421	0.388	0.11	-2.58
NO3	JARB1	41.893	-115.426	-0.002	0.005	0.108	0.065	0.088	0.085	0.02	-2.64
NO3	JARI1	37.627	-79.512	-0.020	0.000	0.642	0.269	0.471	0.446	0.12	-4.41
NO3	JOSH1	34.07	-116.389	-0.054	0.000	1.165	0.148	0.716	0.630	0.35	-8.50
NO3	KAIS1	37.221	-119.155	-0.010	0.004	0.409	0.212	0.305	0.300	0.08	-3.45
NO3	KALM1	42.552	-124.059	-0.003	0.011	0.138	0.085	0.118	0.110	0.03	-2.52
NO3	LABE1	41.712	-121.507	-0.002	0.028	0.132	0.087	0.116	0.108	0.03	-2.20
NO3	LASU2	40.693	-92.006	-0.066	0.004	2.310	1.057	1.540	1.519	0.36	-4.34
NO3	LAVO1	40.54	-121.577	-0.004	0.001	0.162	0.087	0.131	0.122	0.03	-3.22
NO3	LIGO1	35.972	-81.933	-0.005	0.002	0.276	0.176	0.231	0.223	0.05	-2.36
NO3	LOST1	48.642	-102.402	-0.009	0.039	0.814	0.638	0.736	0.722	0.09	-1.28
NO3	MACA1	37.132	-86.148	-0.036	0.000	1.212	0.536	0.878	0.856	0.21	-4.15
NO3	MAVI1	41.331	-70.785	-0.008	0.000	0.567	0.408	0.482	0.475	0.05	-1.75
NO3	MEAD1	36.019	-114.068	-0.004	0.011	0.223	0.138	0.177	0.174	0.03	-2.56
NO3	MELA1	48.487	-104.476	-0.002	0.807	0.589	0.550	0.584	0.568	0.09	-0.36
NO3	MEVE1	37.198	-108.491	-0.006	0.000	0.189	0.081	0.141	0.132	0.04	-4.31
NO3	MING1	36.972	-90.143	-0.041	0.000	1.341	0.558	0.901	0.929	0.27	-4.44
NO3	MOHO1	45.289	-121.784	-0.004	0.002	0.168	0.092	0.135	0.128	0.03	-3.11
NO3	MOMO1	41.821	-73.297	-0.005	0.063	0.482	0.385	0.457	0.428	0.07	-1.20
NO3	MONT1	47.122	-113.154	-0.002	0.053	0.088	0.059	0.077	0.073	0.02	-2.11
NO3	MOOS1	45.126	-67.266	-0.007	0.004	0.242	0.116	0.193	0.176	0.05	-3.79
NO3	MORA1	46.758	-122.124	-0.004	0.000	0.140	0.070	0.114	0.103	0.03	-3.57

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NO3	MOZI1	40.538	-106.677	-0.003	0.002	0.156	0.090	0.128	0.121	0.03	-2.84
NO3	NEBR1	41.889	-100.339	-0.022	0.039	0.847	0.436	0.626	0.609	0.17	-3.55
NO3	NOAB1	44.745	-109.382	-0.003	0.000	0.145	0.085	0.114	0.114	0.03	-2.77
NO3	NOCA1	48.732	-121.065	-0.002	0.001	0.096	0.065	0.083	0.079	0.01	-2.08
NO3	NOCH1	45.65	-106.557	-0.001	0.680	0.176	0.153	0.173	0.163	0.03	-0.73
NO3	OKEF1	30.74	-82.128	-0.005	0.000	0.342	0.239	0.295	0.288	0.04	-1.88
NO3	OLYM1	48.007	-122.973	-0.006	0.006	0.282	0.160	0.222	0.215	0.05	-3.00
NO3	ORPI1	31.951	-112.802	-0.003	0.017	0.307	0.247	0.267	0.272	0.03	-1.17
NO3	PASA1	48.388	-119.927	-0.002	0.132	0.118	0.086	0.106	0.101	0.02	-1.65
NO3	PEFO1	35.078	-109.769	-0.006	0.000	0.224	0.115	0.173	0.167	0.04	-3.44
NO3	PENO1	44.948	-68.648	-0.003	0.055	0.287	0.221	0.235	0.244	0.03	-1.42
NO3	PINN1	36.483	-121.157	-0.021	0.000	0.726	0.319	0.550	0.512	0.14	-4.19
NO3	PMRF1	44.528	-72.869	-0.007	0.005	0.383	0.245	0.329	0.310	0.07	-2.35
NO3	PORE1	38.122	-122.909	-0.026	0.000	0.849	0.361	0.630	0.592	0.25	-4.33
NO3	PRIS1	46.696	-68.033	-0.004	0.000	0.240	0.168	0.208	0.202	0.04	-1.88
NO3	QUCI1	39.943	-81.338	0.000	0.972	0.719	0.717	0.767	0.718	0.13	-0.02
NO3	QURE1	42.299	-72.335	-0.011	0.054	0.531	0.326	0.441	0.444	0.09	-2.43
NO3	QUVA1	33.294	-111.286	-0.013	0.002	0.425	0.171	0.352	0.318	0.09	-4.21
NO3	RAFA1	34.734	-120.007	-0.020	0.000	0.698	0.327	0.548	0.503	0.16	-3.89
NO3	REDW1	41.561	-124.084	-0.006	0.001	0.225	0.105	0.171	0.162	0.05	-3.92
NO3	ROMA1	32.941	-79.657	-0.008	0.000	0.416	0.267	0.344	0.337	0.05	-2.32
NO3	ROMO1	40.278	-105.546	-0.008	0.002	0.280	0.137	0.229	0.205	0.07	-3.67
NO3	SACR1	33.46	-104.404	-0.011	0.016	0.638	0.421	0.547	0.524	0.10	-2.19
NO3	SAGA1	34.297	-118.028	-0.043	0.000	1.110	0.295	0.759	0.659	0.28	-6.51
NO3	SAGO1	34.194	-116.913	-0.091	0.000	1.948	0.212	1.220	1.035	0.59	-8.83
NO3	SAGU1	32.175	-110.737	-0.008	0.000	0.362	0.211	0.296	0.282	0.06	-2.81
NO3	SAMA1	30.093	-84.161	-0.005	0.006	0.341	0.250	0.297	0.293	0.04	-1.62
NO3	SAPE1	36.014	-106.845	-0.003	0.000	0.157	0.094	0.127	0.124	0.02	-2.70
NO3	SAWE1	32.249	-111.218	-0.009	0.000	0.431	0.255	0.342	0.334	0.06	-2.78
NO3	SAWT1	44.171	-114.927	0.000	0.552	0.062	0.057	0.065	0.059	0.02	-0.52
NO3	SENE1	46.289	-85.95	-0.017	0.003	0.682	0.368	0.544	0.517	0.13	-3.20
NO3	SEQU1	36.489	-118.829	-0.073	0.000	1.989	0.607	1.256	1.262	0.48	-5.76
NO3	SHEN1	38.523	-78.435	-0.017	0.000	0.702	0.381	0.563	0.533	0.12	-3.17
NO3	SHMI1	37.304	-107.484	-0.004	0.026	0.186	0.112	0.134	0.139	0.03	-2.82
NO3	SHRO1	35.394	-82.774	-0.002	0.074	0.253	0.216	0.235	0.234	0.02	-0.83
NO3	SIAN1	34.091	-110.942	-0.009	0.000	0.261	0.098	0.201	0.193	0.05	-4.46

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NO3	SIME1	55.326	-160.506	0.000	0.677	0.073	0.079	0.077	0.077	0.01	0.41
NO3	SIPS1	34.343	-87.339	-0.024	0.000	0.807	0.351	0.552	0.567	0.15	-4.24
NO3	SNPA1	47.422	-121.426	-0.008	0.001	0.285	0.126	0.228	0.201	0.06	-4.15
NO3	STAR1	45.225	-118.513	-0.007	0.006	0.259	0.125	0.226	0.189	0.09	-3.72
NO3	SULA1	45.86	-114	-0.003	0.023	0.100	0.051	0.088	0.074	0.03	-3.49
NO3	SWAN1	35.451	-76.207	-0.004	0.054	0.412	0.343	0.382	0.376	0.04	-0.97
NO3	SYCA1	35.141	-111.969	-0.006	0.000	0.241	0.126	0.199	0.193	0.03	-3.14
NO3	TALL1	38.434	-96.56	-0.040	0.002	1.545	0.779	1.098	1.101	0.28	-3.66
NO3	THBA1	44.663	-105.287	-0.006	0.048	0.281	0.171	0.220	0.214	0.05	-2.72
NO3	THRO1	46.895	-103.378	-0.009	0.115	0.590	0.425	0.489	0.503	0.11	-1.73
NO3	THSI1	44.291	-122.043	-0.002	0.011	0.088	0.057	0.077	0.071	0.02	-2.27
NO3	TONT1	33.655	-111.107	-0.009	0.000	0.309	0.141	0.238	0.220	0.05	-4.03
NO3	TRCR1	62.315	-150.316	-0.001	0.103	0.053	0.040	0.045	0.046	0.01	-1.43
NO3	TRIN1	40.786	-122.805	-0.005	0.038	0.166	0.064	0.146	0.120	0.07	-4.43
NO3	ULBE1	47.582	-108.72	-0.004	0.221	0.252	0.184	0.238	0.216	0.06	-1.65
NO3	UPBU1	35.826	-93.203	-0.030	0.000	1.049	0.477	0.699	0.748	0.18	-4.02
NO3	VIIS1	18.336	-64.796	0.001	0.171	0.237	0.258	0.244	0.249	0.02	0.44
NO3	VILA1	40.969	-95.045	-0.073	0.000	2.350	0.969	1.591	1.550	0.42	-4.69
NO3	VOYA2	48.413	-92.829	-0.013	0.009	0.582	0.343	0.441	0.457	0.10	-2.75
NO3	WEMI1	37.659	-107.8	-0.002	0.000	0.109	0.068	0.090	0.087	0.02	-2.49
NO3	WHIT1	33.469	-105.535	-0.004	0.005	0.204	0.133	0.163	0.164	0.03	-2.27
NO3	WHPA1	46.624	-121.388	-0.002	0.054	0.102	0.064	0.082	0.082	0.02	-2.45
NO3	WHPE1	36.585	-105.452	-0.003	0.000	0.151	0.091	0.117	0.118	0.02	-2.70
NO3	WHRI1	39.154	-106.821	-0.002	0.001	0.126	0.089	0.107	0.107	0.02	-1.86
NO3	WICA1	43.558	-103.484	-0.007	0.001	0.313	0.181	0.257	0.243	0.06	-2.85
NO3	WIMO1	34.732	-98.713	-0.016	0.046	0.922	0.619	0.770	0.762	0.18	-2.09
NO3	YELL2	44.565	-110.4	-0.004	0.002	0.182	0.099	0.143	0.138	0.04	-3.17
NO3	YOSE1	37.713	-119.706	-0.007	0.033	0.324	0.200	0.281	0.258	0.10	-2.53
NO3	ZICA1	37.198	-113.151	-0.006	0.000	0.210	0.101	0.154	0.147	0.04	-3.91
OC	ACAD1	44.377	-68.261	-0.013	0.003	0.941	0.697	0.805	0.819	0.11	-1.57
OC	AGTI1	33.464	-116.971	-0.040	0.000	1.387	0.618	1.071	1.003	0.27	-4.04
OC	BADL1	43.743	-101.941	-0.007	0.299	0.844	0.703	0.821	0.773	0.21	-0.96
OC	BALD1	34.058	-109.441	-0.015	0.054	0.762	0.477	0.734	0.612	0.43	-2.45
OC	BAND1	35.78	-106.266	-0.017	0.004	0.838	0.506	0.741	0.672	0.23	-2.59
OC	BIBE1	29.303	-103.178	-0.010	0.006	0.756	0.565	0.681	0.661	0.14	-1.52
OC	BLIS1	38.976	-120.103	0.006	0.649	0.917	1.029	1.041	0.970	0.31	0.61



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OC	BOAP1	33.869	-106.852	-0.008	0.069	0.792	0.634	0.748	0.713	0.15	-1.17
OC	BOND1	40.052	-88.373	-0.027	0.000	1.520	0.999	1.284	1.246	0.20	-2.20
OC	BOWA1	47.947	-91.495	-0.016	0.008	1.021	0.716	0.931	0.868	0.33	-1.85
OC	BRCA1	37.618	-112.174	-0.016	0.080	0.738	0.438	0.673	0.588	0.29	-2.69
OC	BRID1	42.975	-109.758	-0.002	0.795	0.626	0.594	0.670	0.610	0.23	-0.28
OC	BRIG1	39.465	-74.449	-0.036	0.000	1.689	1.003	1.390	1.328	0.28	-2.72
OC	BRMA1	44.107	-70.729	-0.020	0.000	1.222	0.842	1.063	1.062	0.15	-1.88
OC	CABA1	43.833	-70.064	-0.025	0.000	1.535	1.069	1.327	1.290	0.25	-1.90
OC	CABI1	47.955	-115.671	-0.001	0.861	0.935	0.909	1.105	0.922	0.49	-0.15
OC	CACO1	41.976	-70.024	-0.024	0.000	1.154	0.694	0.947	0.912	0.17	-2.65
OC	CACR1	34.454	-94.143	-0.037	0.000	1.792	1.085	1.507	1.420	0.26	-2.62
OC	CANY1	38.459	-109.821	-0.005	0.399	0.513	0.422	0.501	0.468	0.11	-1.02
OC	CAPI1	38.302	-111.293	-0.006	0.270	0.580	0.466	0.543	0.523	0.11	-1.16
OC	CEBL1	38.77	-99.763	-0.011	0.084	1.012	0.809	0.896	0.894	0.11	-1.20
OC	CHAS1	28.748	-82.555	-0.028	0.023	1.854	1.322	1.677	1.588	0.35	-1.76
OC	CHIR1	32.009	-109.389	-0.007	0.044	0.515	0.383	0.502	0.449	0.14	-1.54
OC	COHU1	34.785	-84.627	-0.036	0.009	1.997	1.321	1.628	1.624	0.32	-2.19
OC	CORI1	45.664	-121.001	-0.021	0.069	1.481	1.084	1.291	1.283	0.28	-1.63
OC	CRLA1	42.896	-122.136	0.002	0.649	0.696	0.742	1.221	0.720	1.08	0.34
OC	CRMO1	43.46	-113.555	0.007	0.916	0.717	0.847	0.831	0.785	0.37	0.87
OC	DENA1	63.723	-148.967	-0.007	0.105	0.425	0.283	0.693	0.354	0.78	-2.10
OC	DOME1	35.728	-118.138	-0.012	0.151	1.284	1.065	1.241	1.169	0.27	-0.99
OC	DOSO1	39.105	-79.426	-0.042	0.000	1.564	0.774	1.196	1.169	0.27	-3.56
OC	EGBE1	44.231	-79.783	-0.011	0.250	1.162	0.960	1.043	1.029	0.11	-1.03
OC	EVER1	25.391	-80.681	-0.035	0.011	1.275	0.600	1.506	0.920	2.06	-3.86
OC	FLAT1	47.773	-114.269	-0.002	0.680	0.949	0.910	1.160	0.926	0.47	-0.22
OC	FOPE1	48.308	-105.102	-0.007	0.564	0.868	0.734	0.877	0.790	0.25	-0.89
OC	FRRE1	39.706	-79.012	-0.030	0.001	1.520	0.945	1.166	1.172	0.17	-2.58
OC	GAMO1	46.826	-111.711	-0.002	0.807	0.685	0.642	0.833	0.662	0.40	-0.35
OC	GICL1	33.22	-108.235	-0.026	0.060	1.089	0.596	0.956	0.843	0.54	-3.08
OC	GLAC1	48.511	-113.997	-0.034	0.173	1.961	1.313	2.016	1.637	1.70	-2.08
OC	GRBA1	39.005	-114.216	-0.010	0.032	0.690	0.495	0.578	0.592	0.12	-1.73
OC	GRCA2	36.066	-112.154	-0.009	0.092	0.632	0.468	0.691	0.550	0.65	-1.57
OC	GRGU1	44.308	-71.218	-0.020	0.000	1.040	0.651	0.844	0.835	0.14	-2.45
OC	GRR11	43.937	-91.405	-0.024	0.000	1.410	0.956	1.134	1.147	0.15	-2.08
OC	GRSA1	37.725	-105.519	-0.006	0.194	0.709	0.602	0.668	0.656	0.10	-0.86

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OC	GRSM1	35.633	-83.942	-0.046	0.001	1.920	1.054	1.519	1.487	0.39	-3.06
OC	GUMO1	31.833	-104.809	-0.010	0.038	0.703	0.521	0.635	0.612	0.11	-1.57
OC	HAVO1	19.431	-155.258	-0.002	0.463	0.165	0.123	0.168	0.143	0.12	-1.55
OC	HECA1	44.97	-116.844	-0.013	0.345	1.243	1.002	1.176	1.116	0.34	-1.14
OC	HEGL1	36.614	-92.922	-0.044	0.000	1.944	1.116	1.563	1.508	0.27	-2.89
OC	HOOV1	38.088	-119.177	0.003	0.910	0.668	0.719	0.744	0.696	0.30	0.39
OC	IKBA1	34.34	-111.683	-0.012	0.023	0.768	0.532	0.683	0.650	0.17	-1.91
OC	ISLE1	47.46	-88.149	-0.011	0.009	0.891	0.687	0.782	0.789	0.12	-1.36
OC	JARB1	41.893	-115.426	0.001	1.000	0.642	0.655	0.681	0.649	0.22	0.11
OC	JARI1	37.627	-79.512	-0.040	0.000	2.264	1.502	1.788	1.863	0.26	-2.15
OC	JOSH1	34.07	-116.389	-0.019	0.000	0.936	0.573	0.761	0.755	0.16	-2.54
OC	KAIS1	37.221	-119.155	-0.002	0.970	0.985	0.939	1.087	0.960	0.41	-0.26
OC	KALM1	42.552	-124.059	-0.016	0.218	1.239	0.944	1.426	1.092	1.01	-1.42
OC	LABE1	41.712	-121.507	0.002	0.897	1.011	1.054	1.267	1.033	0.74	0.22
OC	LASU2	40.693	-92.006	-0.018	0.020	1.390	1.042	1.193	1.170	0.14	-1.56
OC	LAVO1	40.54	-121.577	0.000	0.897	0.935	0.927	1.522	0.931	1.20	-0.04
OC	LIGO1	35.972	-81.933	-0.030	0.000	1.828	1.251	1.504	1.539	0.26	-1.97
OC	LOST1	48.642	-102.402	-0.021	0.038	1.071	0.678	0.917	0.874	0.23	-2.36
OC	MACA1	37.132	-86.148	-0.040	0.000	1.977	1.208	1.642	1.593	0.29	-2.54
OC	MAVI1	41.331	-70.785	-0.024	0.002	1.099	0.640	0.881	0.833	0.18	-2.90
OC	MEAD1	36.019	-114.068	-0.014	0.002	0.622	0.357	0.493	0.469	0.10	-2.98
OC	MELA1	48.487	-104.476	-0.005	0.559	0.804	0.712	0.818	0.758	0.21	-0.64
OC	MEVE1	37.198	-108.491	-0.016	0.003	0.662	0.358	0.560	0.510	0.19	-3.14
OC	MING1	36.972	-90.143	-0.046	0.000	2.262	1.387	1.830	1.733	0.34	-2.66
OC	MOHO1	45.289	-121.784	-0.004	0.746	0.665	0.583	0.654	0.624	0.22	-0.69
OC	MOMO1	41.821	-73.297	-0.033	0.000	1.380	0.747	1.086	1.030	0.24	-3.23
OC	MONT1	47.122	-113.154	-0.017	0.364	1.353	1.026	1.853	1.190	1.73	-1.45
OC	MOOS1	45.126	-67.266	-0.024	0.000	1.036	0.581	0.863	0.809	0.16	-2.96
OC	MORA1	46.758	-122.124	-0.018	0.105	1.117	0.770	0.958	0.943	0.25	-1.94
OC	MOZI1	40.538	-106.677	-0.008	0.194	0.586	0.431	0.559	0.509	0.17	-1.60
OC	NEBR1	41.889	-100.339	-0.005	0.510	0.847	0.753	0.793	0.793	0.11	-0.63
OC	NOAB1	44.745	-109.382	-0.007	0.516	0.634	0.511	0.691	0.573	0.35	-1.14
OC	NOCA1	48.732	-121.065	-0.005	0.364	0.661	0.558	0.853	0.609	0.62	-0.89
OC	NOCH1	45.65	-106.557	-0.004	0.742	0.937	0.865	0.972	0.896	0.57	-0.42
OC	OKEF1	30.74	-82.128	-0.048	0.002	2.326	1.414	2.036	1.870	0.74	-2.57
OC	OLYM1	48.007	-122.973	-0.023	0.063	0.950	0.506	0.743	0.705	0.23	-3.31

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OC	ORPI1	31.951	-112.802	-0.011	0.118	0.581	0.372	0.485	0.460	0.13	-2.39
OC	PASA1	48.388	-119.927	-0.005	0.700	0.945	0.857	1.093	0.898	0.64	-0.51
OC	PEFO1	35.078	-109.769	-0.023	0.004	0.825	0.396	0.704	0.610	0.28	-3.70
OC	PENO1	44.948	-68.648	-0.024	0.025	1.564	1.110	1.238	1.265	0.14	-1.88
OC	PINN1	36.483	-121.157	-0.013	0.243	1.078	0.840	1.000	0.959	0.21	-1.31
OC	PITT1	40.465	-79.961	-0.043	0.004	2.473	1.648	1.960	1.974	0.32	-2.20
OC	PMRF1	44.528	-72.869	-0.025	0.000	1.237	0.762	0.991	0.987	0.18	-2.53
OC	PORE1	38.122	-122.909	-0.013	0.044	0.664	0.416	0.618	0.540	0.27	-2.42
OC	PRIS1	46.696	-68.033	-0.032	0.000	1.370	0.762	1.100	1.050	0.21	-3.04
OC	QUCI1	39.943	-81.338	-0.028	0.000	1.622	1.094	1.343	1.344	0.19	-2.07
OC	QURE1	42.299	-72.335	-0.041	0.000	1.548	0.777	1.225	1.224	0.21	-3.32
OC	QUVA1	33.294	-111.286	-0.019	0.005	0.763	0.408	0.655	0.614	0.13	-3.04
OC	RAFA1	34.734	-120.007	-0.020	0.060	1.109	0.731	0.921	0.920	0.28	-2.16
OC	REDW1	41.561	-124.084	-0.012	0.194	0.731	0.497	0.748	0.614	0.50	-2.00
OC	ROMA1	32.941	-79.657	-0.035	0.000	1.902	1.230	1.577	1.566	0.26	-2.26
OC	ROMO1	40.278	-105.546	-0.010	0.080	0.738	0.550	0.654	0.644	0.15	-1.54
OC	SACR1	33.46	-104.404	-0.008	0.032	0.854	0.692	0.778	0.773	0.11	-1.10
OC	SAGA1	34.297	-118.028	-0.022	0.019	1.076	0.658	0.833	0.845	0.24	-2.60
OC	SAGO1	34.194	-116.913	-0.026	0.003	1.208	0.714	0.950	0.961	0.21	-2.70
OC	SAGU1	32.175	-110.737	-0.014	0.011	0.758	0.500	0.650	0.622	0.15	-2.19
OC	SAMA1	30.093	-84.161	-0.032	0.011	1.907	1.298	1.639	1.571	0.35	-2.04
OC	SAPE1	36.014	-106.845	-0.010	0.028	0.572	0.381	0.512	0.471	0.12	-2.14
OC	SAWE1	32.249	-111.218	-0.011	0.025	0.781	0.568	0.692	0.663	0.12	-1.69
OC	SAWT1	44.171	-114.927	-0.009	0.916	1.415	1.245	1.512	1.326	0.56	-0.68
OC	SENE1	46.289	-85.95	-0.021	0.002	1.094	0.698	0.911	0.896	0.21	-2.33
OC	SEQU1	36.489	-118.829	-0.026	0.330	2.195	1.694	2.021	1.944	0.52	-1.36
OC	SHEN1	38.523	-78.435	-0.022	0.001	1.334	0.918	1.129	1.126	0.18	-1.95
OC	SHMI1	37.304	-107.484	-0.006	0.347	0.649	0.537	0.610	0.578	0.11	-1.02
OC	SHRO1	35.394	-82.774	-0.032	0.002	1.428	0.811	1.120	1.120	0.30	-2.90
OC	SIAN1	34.091	-110.942	-0.032	0.038	1.125	0.512	0.969	0.883	0.31	-3.65
OC	SIME1	55.326	-160.506	-0.004	0.185	0.221	0.148	0.200	0.180	0.07	-2.14
OC	SIPS1	34.343	-87.339	-0.053	0.000	2.456	1.440	1.899	1.948	0.37	-2.74
OC	SNPA1	47.422	-121.426	-0.018	0.119	1.000	0.653	0.860	0.826	0.30	-2.21
OC	STAR1	45.225	-118.513	-0.037	0.023	1.431	0.721	1.179	1.076	0.45	-3.47
OC	SULA1	45.86	-114	-0.016	0.310	1.052	0.742	1.327	0.889	1.05	-1.83
OC	SWAN1	35.451	-76.207	-0.014	0.132	1.330	1.058	1.221	1.187	0.34	-1.20

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OC	SYCA1	35.141	-111.969	-0.015	0.087	1.049	0.761	0.998	0.935	0.19	-1.62
OC	TALL1	38.434	-96.56	-0.030	0.032	1.747	1.184	1.478	1.421	0.31	-2.08
OC	THBA1	44.663	-105.287	-0.005	0.729	0.802	0.714	0.843	0.747	0.23	-0.62
OC	THRO1	46.895	-103.378	-0.005	0.516	0.785	0.693	0.803	0.739	0.17	-0.66
OC	THSI1	44.291	-122.043	-0.003	0.795	0.938	0.890	1.069	0.914	0.70	-0.27
OC	TONT1	33.655	-111.107	-0.019	0.006	0.887	0.526	0.736	0.707	0.16	-2.69
OC	TRCR1	62.315	-150.316	-0.003	0.677	0.414	0.360	0.465	0.384	0.23	-0.74
OC	TRIN1	40.786	-122.805	-0.028	0.471	1.499	0.970	1.695	1.263	1.55	-2.20
OC	ULBE1	47.582	-108.72	0.001	0.948	0.748	0.760	0.855	0.754	0.27	0.08
OC	UPBU1	35.826	-93.203	-0.034	0.000	1.776	1.132	1.512	1.454	0.26	-2.33
OC	VIIS1	18.336	-64.796	-0.001	0.791	0.183	0.159	0.196	0.172	0.07	-0.72
OC	VILA1	40.969	-95.045	-0.021	0.004	1.354	0.965	1.135	1.129	0.14	-1.82
OC	VOYA2	48.413	-92.829	-0.013	0.019	1.034	0.789	0.918	0.911	0.16	-1.42
OC	WEMI1	37.659	-107.8	-0.012	0.038	0.640	0.422	0.584	0.531	0.17	-2.17
OC	WHIT1	33.469	-105.535	-0.013	0.031	0.733	0.493	0.605	0.601	0.12	-2.10
OC	WHPA1	46.624	-121.388	0.009	0.650	0.389	0.556	0.643	0.472	0.48	1.86
OC	WHPE1	36.585	-105.452	-0.015	0.005	0.610	0.319	0.445	0.449	0.11	-3.41
OC	WHRI1	39.154	-106.821	-0.010	0.038	0.496	0.310	0.415	0.403	0.12	-2.43
OC	WICA1	43.558	-103.484	-0.003	0.650	0.912	0.859	0.872	0.885	0.18	-0.32
OC	WIMO1	34.732	-98.713	-0.021	0.006	1.368	0.966	1.178	1.157	0.19	-1.83
OC	YELL2	44.565	-110.4	-0.014	0.270	1.035	0.775	0.880	0.905	0.26	-1.51
OC	YOSE1	37.713	-119.706	-0.023	0.559	1.552	1.123	1.858	1.337	1.44	-1.69
OC	ZICA1	37.198	-113.151	-0.018	0.011	0.706	0.373	0.581	0.513	0.15	-3.42
EC	ACAD1	44.377	-68.261	-0.008	0.000	0.204	0.056	0.152	0.130	0.05	-5.96
EC	AGTI1	33.464	-116.971	-0.018	0.000	0.391	0.057	0.279	0.224	0.11	-7.87
EC	BADL1	43.743	-101.941	-0.003	0.009	0.138	0.075	0.114	0.107	0.03	-3.10
EC	BALD1	34.058	-109.441	-0.004	0.004	0.148	0.070	0.108	0.107	0.04	-3.87
EC	BAND1	35.78	-106.266	-0.005	0.000	0.161	0.069	0.128	0.115	0.05	-4.22
EC	BIBE1	29.303	-103.178	-0.002	0.016	0.142	0.097	0.123	0.120	0.03	-2.02
EC	BLIS1	38.976	-120.103	-0.004	0.115	0.179	0.111	0.142	0.147	0.04	-2.44
EC	BOAP1	33.869	-106.852	-0.005	0.000	0.199	0.095	0.163	0.147	0.05	-3.71
EC	BOND1	40.052	-88.373	-0.013	0.000	0.482	0.240	0.355	0.355	0.08	-3.59
EC	BOWA1	47.947	-91.495	-0.005	0.002	0.163	0.073	0.131	0.118	0.04	-3.98
EC	BRCA1	37.618	-112.174	-0.005	0.008	0.142	0.050	0.105	0.096	0.05	-5.00
EC	BRID1	42.975	-109.758	-0.002	0.060	0.100	0.065	0.083	0.083	0.03	-2.23
EC	BRIG1	39.465	-74.449	-0.015	0.000	0.453	0.159	0.337	0.298	0.10	-5.17

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EC	BRMA1	44.107	-70.729	-0.011	0.000	0.307	0.098	0.227	0.219	0.05	-5.04
EC	CABA1	43.833	-70.064	-0.012	0.000	0.415	0.179	0.309	0.290	0.07	-4.28
EC	CABI1	47.955	-115.671	-0.001	0.700	0.129	0.111	0.142	0.120	0.10	-0.82
EC	CACO1	41.976	-70.024	-0.009	0.000	0.243	0.069	0.179	0.151	0.06	-6.07
EC	CACR1	34.454	-94.143	-0.008	0.000	0.320	0.159	0.247	0.235	0.06	-3.59
EC	CANY1	38.459	-109.821	-0.003	0.002	0.104	0.055	0.080	0.080	0.02	-3.27
EC	CAPI1	38.302	-111.293	-0.003	0.002	0.113	0.059	0.087	0.086	0.03	-3.33
EC	CEBL1	38.77	-99.763	-0.006	0.005	0.201	0.094	0.149	0.139	0.04	-4.05
EC	CHAS1	28.748	-82.555	-0.012	0.002	0.469	0.237	0.396	0.353	0.11	-3.46
EC	CHIR1	32.009	-109.389	-0.003	0.006	0.106	0.058	0.088	0.082	0.02	-3.06
EC	COHU1	34.785	-84.627	-0.011	0.000	0.360	0.153	0.276	0.245	0.08	-4.43
EC	CORI1	45.664	-121.001	-0.009	0.000	0.352	0.189	0.274	0.271	0.06	-3.18
EC	CRLA1	42.896	-122.136	-0.003	0.221	0.150	0.101	0.178	0.124	0.14	-2.09
EC	CRMO1	43.46	-113.555	-0.001	0.649	0.112	0.086	0.104	0.098	0.04	-1.41
EC	DENA1	63.723	-148.967	-0.002	0.004	0.077	0.031	0.068	0.054	0.05	-4.47
EC	DOME1	35.728	-118.138	-0.007	0.000	0.248	0.114	0.183	0.177	0.05	-3.98
EC	DOSO1	39.105	-79.426	-0.011	0.000	0.328	0.112	0.247	0.220	0.08	-5.15
EC	EGBE1	44.231	-79.783	-0.010	0.003	0.390	0.206	0.278	0.269	0.05	-3.60
EC	EVER1	25.391	-80.681	-0.009	0.004	0.256	0.089	0.196	0.168	0.08	-5.21
EC	FLAT1	47.773	-114.269	-0.001	0.742	0.120	0.104	0.138	0.111	0.07	-0.77
EC	FOPE1	48.308	-105.102	-0.001	0.680	0.124	0.114	0.123	0.118	0.03	-0.44
EC	FRRE1	39.706	-79.012	-0.012	0.000	0.422	0.189	0.302	0.281	0.07	-4.37
EC	GAMO1	46.826	-111.711	0.000	0.753	0.078	0.070	0.095	0.074	0.06	-0.58
EC	GICL1	33.22	-108.235	-0.005	0.023	0.173	0.085	0.150	0.129	0.10	-3.58
EC	GLAC1	48.511	-113.997	-0.009	0.004	0.353	0.184	0.322	0.269	0.18	-3.31
EC	GRBA1	39.005	-114.216	-0.004	0.000	0.108	0.035	0.085	0.072	0.03	-5.39
EC	GRCA2	36.066	-112.154	-0.003	0.011	0.123	0.069	0.110	0.096	0.08	-2.98
EC	GRGU1	44.308	-71.218	-0.007	0.000	0.191	0.067	0.145	0.126	0.04	-5.19
EC	GRR11	43.937	-91.405	-0.009	0.000	0.335	0.162	0.246	0.235	0.06	-3.86
EC	GRSA1	37.725	-105.519	-0.003	0.000	0.119	0.069	0.096	0.094	0.02	-2.80
EC	GRSM1	35.633	-83.942	-0.014	0.000	0.404	0.137	0.296	0.270	0.10	-5.20
EC	GUMO1	31.833	-104.809	-0.001	0.516	0.105	0.092	0.104	0.098	0.02	-0.71
EC	HAVO1	19.431	-155.258	-0.001	0.001	0.042	0.016	0.031	0.028	0.01	-4.79
EC	HECA1	44.97	-116.844	-0.003	0.132	0.175	0.116	0.147	0.144	0.04	-2.16
EC	HEGL1	36.614	-92.922	-0.008	0.000	0.350	0.191	0.286	0.266	0.06	-3.14
EC	HOOV1	38.088	-119.177	-0.001	0.426	0.109	0.081	0.094	0.093	0.03	-1.60

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EC	IKBA1	34.34	-111.683	-0.004	0.002	0.154	0.076	0.122	0.115	0.03	-3.56
EC	ISLE1	47.46	-88.149	-0.005	0.000	0.164	0.074	0.133	0.119	0.03	-3.95
EC	JARB1	41.893	-115.426	-0.001	0.194	0.085	0.061	0.079	0.073	0.03	-1.76
EC	JARI1	37.627	-79.512	-0.014	0.000	0.600	0.326	0.453	0.456	0.11	-3.17
EC	JOSH1	34.07	-116.389	-0.009	0.000	0.240	0.063	0.168	0.151	0.06	-6.13
EC	KAIS1	37.221	-119.155	-0.001	0.472	0.171	0.143	0.144	0.155	0.04	-0.95
EC	KALM1	42.552	-124.059	-0.004	0.060	0.176	0.098	0.183	0.137	0.14	-3.01
EC	LABE1	41.712	-121.507	-0.002	0.153	0.147	0.100	0.165	0.124	0.14	-2.01
EC	LASU2	40.693	-92.006	-0.010	0.004	0.371	0.185	0.271	0.254	0.06	-3.86
EC	LAVO1	40.54	-121.577	-0.003	0.559	0.182	0.132	0.186	0.157	0.11	-1.70
EC	LIGO1	35.972	-81.933	-0.013	0.000	0.407	0.162	0.303	0.284	0.10	-4.54
EC	LOST1	48.642	-102.402	0.001	0.697	0.173	0.186	0.177	0.179	0.03	0.38
EC	MACA1	37.132	-86.148	-0.014	0.000	0.465	0.206	0.359	0.336	0.10	-4.07
EC	MAVI1	41.331	-70.785	-0.009	0.000	0.243	0.077	0.171	0.147	0.05	-5.95
EC	MEAD1	36.019	-114.068	-0.005	0.000	0.125	0.039	0.085	0.075	0.03	-6.03
EC	MELA1	48.487	-104.476	0.000	0.897	0.132	0.127	0.133	0.129	0.02	-0.19
EC	MEVE1	37.198	-108.491	-0.004	0.000	0.112	0.036	0.085	0.074	0.03	-5.45
EC	MING1	36.972	-90.143	-0.014	0.000	0.522	0.248	0.385	0.356	0.10	-4.05
EC	MOHO1	45.289	-121.784	-0.003	0.027	0.123	0.066	0.092	0.094	0.03	-3.19
EC	MOMO1	41.821	-73.297	-0.010	0.000	0.321	0.130	0.239	0.215	0.07	-4.67
EC	MONT1	47.122	-113.154	-0.003	0.270	0.168	0.113	0.192	0.141	0.16	-2.04
EC	MOOS1	45.126	-67.266	-0.010	0.000	0.234	0.040	0.157	0.137	0.07	-7.48
EC	MORA1	46.758	-122.124	-0.009	0.000	0.261	0.099	0.194	0.180	0.06	-4.75
EC	MOZI1	40.538	-106.677	-0.002	0.038	0.095	0.056	0.074	0.075	0.02	-2.72
EC	NEBR1	41.889	-100.339	-0.004	0.003	0.160	0.085	0.128	0.117	0.03	-3.36
EC	NOAB1	44.745	-109.382	-0.002	0.044	0.082	0.049	0.080	0.065	0.04	-2.70
EC	NOCA1	48.732	-121.065	-0.003	0.027	0.116	0.054	0.106	0.085	0.06	-3.87
EC	NOCH1	45.65	-106.557	-0.003	0.138	0.137	0.087	0.121	0.108	0.06	-2.46
EC	OKEF1	30.74	-82.128	-0.013	0.000	0.436	0.188	0.333	0.312	0.10	-4.18
EC	OLYM1	48.007	-122.973	-0.006	0.004	0.166	0.054	0.114	0.104	0.04	-5.66
EC	ORPI1	31.951	-112.802	-0.003	0.002	0.131	0.064	0.095	0.092	0.03	-3.78
EC	PASA1	48.388	-119.927	-0.002	0.463	0.130	0.086	0.141	0.107	0.10	-2.14
EC	PEFO1	35.078	-109.769	-0.008	0.000	0.254	0.093	0.185	0.173	0.06	-4.89
EC	PENO1	44.948	-68.648	-0.011	0.001	0.417	0.201	0.283	0.275	0.05	-4.13
EC	PINN1	36.483	-121.157	-0.008	0.001	0.272	0.125	0.199	0.199	0.06	-3.89
EC	PITT1	40.465	-79.961	-0.028	0.000	1.045	0.507	0.754	0.719	0.19	-3.94

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EC	PMRF1	44.528	-72.869	-0.008	0.000	0.248	0.102	0.193	0.171	0.05	-4.51
EC	PORE1	38.122	-122.909	-0.005	0.001	0.132	0.038	0.106	0.085	0.07	-5.85
EC	PRIS1	46.696	-68.033	-0.011	0.000	0.333	0.124	0.248	0.223	0.07	-4.92
EC	QUCI1	39.943	-81.338	-0.011	0.000	0.481	0.273	0.383	0.372	0.07	-2.95
EC	QURE1	42.299	-72.335	-0.014	0.000	0.375	0.113	0.288	0.265	0.07	-5.20
EC	QUVA1	33.294	-111.286	-0.007	0.000	0.208	0.074	0.157	0.152	0.04	-4.63
EC	RAFA1	34.734	-120.007	-0.008	0.000	0.200	0.057	0.148	0.128	0.07	-5.87
EC	REDW1	41.561	-124.084	-0.003	0.004	0.102	0.036	0.079	0.069	0.05	-5.07
EC	ROMA1	32.941	-79.657	-0.011	0.000	0.369	0.165	0.297	0.267	0.09	-4.03
EC	ROMO1	40.278	-105.546	-0.003	0.006	0.135	0.075	0.102	0.105	0.03	-3.01
EC	SACR1	33.46	-104.404	-0.002	0.019	0.172	0.126	0.151	0.149	0.03	-1.61
EC	SAGA1	34.297	-118.028	-0.010	0.001	0.266	0.080	0.169	0.164	0.06	-5.98
EC	SAGO1	34.194	-116.913	-0.012	0.000	0.298	0.061	0.218	0.179	0.09	-6.95
EC	SAGU1	32.175	-110.737	-0.007	0.000	0.201	0.076	0.159	0.136	0.05	-4.84
EC	SAMA1	30.093	-84.161	-0.012	0.000	0.397	0.165	0.290	0.269	0.09	-4.55
EC	SAPE1	36.014	-106.845	-0.002	0.011	0.095	0.052	0.075	0.073	0.02	-3.09
EC	SAWE1	32.249	-111.218	-0.007	0.000	0.242	0.105	0.183	0.166	0.05	-4.35
EC	SAWT1	44.171	-114.927	-0.003	0.506	0.206	0.150	0.176	0.176	0.06	-1.66
EC	SENE1	46.289	-85.95	-0.005	0.000	0.196	0.098	0.165	0.147	0.06	-3.52
EC	SEQU1	36.489	-118.829	-0.012	0.000	0.390	0.171	0.304	0.281	0.10	-4.10
EC	SHEN1	38.523	-78.435	-0.011	0.000	0.325	0.114	0.253	0.219	0.07	-5.06
EC	SHMI1	37.304	-107.484	-0.003	0.026	0.117	0.059	0.088	0.080	0.02	-3.79
EC	SHRO1	35.394	-82.774	-0.007	0.001	0.216	0.090	0.181	0.153	0.07	-4.32
EC	SIAN1	34.091	-110.942	-0.005	0.031	0.209	0.117	0.170	0.172	0.05	-2.80
EC	SIME1	55.326	-160.506	-0.002	0.021	0.095	0.049	0.074	0.069	0.02	-3.44
EC	SIPS1	34.343	-87.339	-0.015	0.000	0.502	0.212	0.378	0.357	0.11	-4.27
EC	SNPA1	47.422	-121.426	-0.008	0.000	0.253	0.103	0.175	0.178	0.05	-4.44
EC	STAR1	45.225	-118.513	-0.007	0.014	0.200	0.059	0.167	0.130	0.09	-5.70
EC	SULA1	45.86	-114	-0.002	0.196	0.117	0.074	0.149	0.094	0.12	-2.37
EC	SWAN1	35.451	-76.207	-0.007	0.000	0.250	0.115	0.196	0.179	0.05	-3.98
EC	SYCA1	35.141	-111.969	-0.007	0.007	0.278	0.144	0.232	0.225	0.05	-3.12
EC	TALL1	38.434	-96.56	-0.008	0.026	0.349	0.189	0.285	0.257	0.07	-3.28
EC	THBA1	44.663	-105.287	-0.003	0.020	0.181	0.115	0.140	0.139	0.03	-2.51
EC	THRO1	46.895	-103.378	-0.003	0.009	0.176	0.121	0.153	0.148	0.03	-1.95
EC	THSI1	44.291	-122.043	-0.003	0.060	0.149	0.099	0.131	0.124	0.04	-2.14
EC	TONT1	33.655	-111.107	-0.006	0.000	0.190	0.079	0.144	0.134	0.04	-4.36

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EC	TRCR1	62.315	-150.316	-0.002	0.007	0.076	0.032	0.054	0.052	0.02	-4.52
EC	TRIN1	40.786	-122.805	-0.006	0.177	0.190	0.075	0.188	0.138	0.13	-4.34
EC	ULBE1	47.582	-108.72	-0.002	0.218	0.111	0.081	0.107	0.096	0.04	-1.64
EC	UPBU1	35.826	-93.203	-0.008	0.000	0.313	0.160	0.255	0.236	0.06	-3.41
EC	VIIS1	18.336	-64.796	-0.003	0.003	0.085	0.029	0.066	0.060	0.03	-4.89
EC	VILA1	40.969	-95.045	-0.009	0.000	0.363	0.191	0.277	0.264	0.06	-3.43
EC	VOYA2	48.413	-92.829	-0.004	0.000	0.160	0.093	0.136	0.126	0.03	-2.79
EC	WEMI1	37.659	-107.8	-0.006	0.000	0.158	0.044	0.108	0.101	0.04	-5.92
EC	WHIT1	33.469	-105.535	-0.002	0.009	0.112	0.074	0.090	0.091	0.02	-2.16
EC	WHPA1	46.624	-121.388	-0.001	0.697	0.078	0.067	0.080	0.072	0.04	-0.82
EC	WHPE1	36.585	-105.452	-0.003	0.011	0.112	0.056	0.086	0.081	0.03	-3.66
EC	WHRI1	39.154	-106.821	-0.003	0.000	0.104	0.045	0.074	0.074	0.02	-4.16
EC	WICA1	43.558	-103.484	-0.003	0.027	0.159	0.103	0.137	0.131	0.05	-2.26
EC	WIMO1	34.732	-98.713	-0.007	0.000	0.283	0.146	0.221	0.211	0.05	-3.41
EC	YELL2	44.565	-110.4	-0.003	0.016	0.136	0.088	0.103	0.112	0.03	-2.26
EC	YOSE1	37.713	-119.706	-0.006	0.052	0.253	0.133	0.223	0.193	0.12	-3.27
EC	ZICA1	37.198	-113.151	-0.005	0.003	0.145	0.047	0.102	0.088	0.04	-5.85
Fine Dust	ACAD1	44.377	-68.261	-0.009	0.000	0.283	0.105	0.201	0.194	0.07	-4.84
Fine Dust	AGTI1	33.464	-116.971	-0.023	0.004	0.934	0.503	0.761	0.707	0.18	-3.21
Fine Dust	BADL1	43.743	-101.941	-0.012	0.014	0.762	0.537	0.653	0.650	0.13	-1.82
Fine Dust	BALD1	34.058	-109.441	-0.016	0.039	0.889	0.593	0.759	0.733	0.20	-2.13
Fine Dust	BAND1	35.78	-106.266	-0.010	0.399	0.854	0.667	0.744	0.760	0.18	-1.29
Fine Dust	BIBE1	29.303	-103.178	-0.021	0.080	1.540	1.143	1.366	1.342	0.34	-1.56
Fine Dust	BLIS1	38.976	-120.103	-0.012	0.023	0.597	0.366	0.493	0.488	0.12	-2.49
Fine Dust	BOAP1	33.869	-106.852	-0.004	0.650	1.118	1.037	1.109	1.078	0.29	-0.39
Fine Dust	BOND1	40.052	-88.373	-0.020	0.000	0.794	0.418	0.566	0.596	0.15	-3.32
Fine Dust	BOWA1	47.947	-91.495	-0.012	0.000	0.400	0.164	0.273	0.282	0.09	-4.41
Fine Dust	BRCA1	37.618	-112.174	-0.011	0.069	0.717	0.515	0.652	0.616	0.15	-1.72
Fine Dust	BRID1	42.975	-109.758	-0.012	0.023	0.591	0.364	0.491	0.478	0.12	-2.50
Fine Dust	BRIG1	39.465	-74.449	-0.019	0.000	0.626	0.267	0.427	0.446	0.14	-4.24
Fine Dust	BRMA1	44.107	-70.729	-0.014	0.006	0.359	0.101	0.251	0.251	0.08	-5.42
Fine Dust	CABA1	43.833	-70.064	-0.013	0.000	0.336	0.098	0.244	0.211	0.10	-5.94
Fine Dust	CABI1	47.955	-115.671	-0.010	0.064	0.592	0.394	0.496	0.488	0.15	-2.13
Fine Dust	CACO1	41.976	-70.024	-0.013	0.000	0.387	0.141	0.276	0.258	0.09	-5.02
Fine Dust	CACR1	34.454	-94.143	-0.003	0.649	0.980	0.916	0.937	0.947	0.21	-0.36
Fine Dust	CANY1	38.459	-109.821	-0.009	0.218	0.816	0.639	0.776	0.727	0.23	-1.28



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Fine Dust	CAP11	38.302	-111.293	-0.009	0.436	0.807	0.632	0.778	0.719	0.19	-1.28
Fine Dust	CEBL1	38.77	-99.763	0.002	0.934	0.913	0.951	1.006	0.935	0.28	0.22
Fine Dust	CHAS1	28.748	-82.555	-0.009	0.211	0.936	0.765	0.861	0.842	0.19	-1.07
Fine Dust	CHIR1	32.009	-109.389	-0.023	0.080	1.409	0.977	1.179	1.193	0.25	-1.91
Fine Dust	COHU1	34.785	-84.627	-0.023	0.014	0.842	0.406	0.576	0.601	0.19	-3.82
Fine Dust	CORI1	45.664	-121.001	-0.009	0.753	1.127	0.964	1.171	1.041	0.40	-0.82
Fine Dust	CRLA1	42.896	-122.136	-0.013	0.006	0.543	0.288	0.396	0.402	0.10	-3.34
Fine Dust	CRMO1	43.46	-113.555	-0.011	0.016	0.701	0.487	0.632	0.594	0.19	-1.89
Fine Dust	DENA1	63.723	-148.967	-0.003	0.092	0.159	0.106	0.152	0.133	0.05	-2.10
Fine Dust	DOME1	35.728	-118.138	0.006	0.248	1.049	1.167	1.046	1.111	0.19	0.56
Fine Dust	DOSO1	39.105	-79.426	-0.016	0.002	0.596	0.287	0.431	0.442	0.14	-3.68
Fine Dust	EGBE1	44.231	-79.783	-0.018	0.000	0.483	0.148	0.294	0.262	0.09	-6.71
Fine Dust	EVER1	25.391	-80.681	-0.006	0.753	1.209	1.102	1.169	1.153	0.33	-0.49
Fine Dust	FLAT1	47.773	-114.269	-0.008	0.118	0.464	0.307	0.395	0.373	0.08	-2.21
Fine Dust	FOPE1	48.308	-105.102	-0.012	0.187	0.747	0.528	0.615	0.620	0.13	-1.87
Fine Dust	FRRE1	39.706	-79.012	-0.027	0.000	0.744	0.239	0.436	0.438	0.17	-6.06
Fine Dust	GAMO1	46.826	-111.711	-0.009	0.011	0.435	0.268	0.358	0.352	0.07	-2.49
Fine Dust	GICL1	33.22	-108.235	-0.011	0.136	0.937	0.720	0.821	0.829	0.18	-1.38
Fine Dust	GLAC1	48.511	-113.997	-0.017	0.004	0.827	0.498	0.677	0.663	0.16	-2.61
Fine Dust	GRBA1	39.005	-114.216	0.000	0.948	0.729	0.723	0.732	0.726	0.24	-0.04
Fine Dust	GRCA2	36.066	-112.154	0.004	0.795	0.574	0.642	0.656	0.608	0.15	0.60
Fine Dust	GRGU1	44.308	-71.218	-0.011	0.000	0.280	0.078	0.203	0.174	0.07	-6.13
Fine Dust	GRR11	43.937	-91.405	-0.016	0.000	0.617	0.312	0.439	0.440	0.11	-3.64
Fine Dust	GRSA1	37.725	-105.519	-0.025	0.052	1.460	0.986	1.160	1.223	0.30	-2.04
Fine Dust	GRSM1	35.633	-83.942	-0.016	0.044	0.687	0.374	0.520	0.531	0.16	-3.11
Fine Dust	GUMO1	31.833	-104.809	0.014	0.399	1.728	2.001	2.017	1.865	0.64	0.77
Fine Dust	HAVO1	19.431	-155.258	-0.004	0.046	0.203	0.130	0.177	0.164	0.08	-2.36
Fine Dust	HECA1	44.97	-116.844	-0.015	0.002	0.627	0.340	0.536	0.476	0.17	-3.18
Fine Dust	HEGL1	36.614	-92.922	-0.016	0.054	0.992	0.689	0.791	0.833	0.18	-1.92
Fine Dust	HOOV1	38.088	-119.177	-0.007	0.272	0.722	0.582	0.660	0.644	0.15	-1.14
Fine Dust	IKBA1	34.34	-111.683	-0.021	0.173	1.406	1.005	1.233	1.206	0.36	-1.75
Fine Dust	ISLE1	47.46	-88.149	-0.008	0.000	0.323	0.171	0.234	0.247	0.07	-3.22
Fine Dust	JARB1	41.893	-115.426	-0.002	0.897	1.108	1.074	1.065	1.091	0.21	-0.17
Fine Dust	JARI1	37.627	-79.512	-0.020	0.001	0.685	0.314	0.473	0.490	0.15	-3.99
Fine Dust	JOSH1	34.07	-116.389	-0.008	0.243	1.179	1.032	1.062	1.105	0.18	-0.70
Fine Dust	KAIS1	37.221	-119.155	-0.005	0.426	0.740	0.636	0.650	0.682	0.13	-0.80

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Fine Dust	KALM1	42.552	-124.059	-0.003	0.032	0.222	0.162	0.196	0.192	0.05	-1.65
Fine Dust	LABE1	41.712	-121.507	-0.008	0.014	0.520	0.360	0.443	0.440	0.10	-1.91
Fine Dust	LASU2	40.693	-92.006	-0.006	0.151	0.659	0.551	0.605	0.590	0.11	-0.96
Fine Dust	LAVO1	40.54	-121.577	-0.012	0.019	0.595	0.364	0.496	0.480	0.14	-2.54
Fine Dust	LIGO1	35.972	-81.933	-0.018	0.009	0.632	0.289	0.446	0.461	0.15	-3.92
Fine Dust	LOST1	48.642	-102.402	-0.005	0.436	0.677	0.586	0.672	0.632	0.19	-0.76
Fine Dust	MACA1	37.132	-86.148	-0.018	0.032	0.825	0.485	0.591	0.655	0.18	-2.73
Fine Dust	MAVI1	41.331	-70.785	-0.010	0.000	0.403	0.212	0.284	0.292	0.07	-3.45
Fine Dust	MEAD1	36.019	-114.068	-0.013	0.323	1.363	1.121	1.235	1.223	0.29	-1.04
Fine Dust	MELA1	48.487	-104.476	0.009	0.119	0.599	0.775	0.715	0.687	0.13	1.35
Fine Dust	MEVE1	37.198	-108.491	-0.028	0.023	1.216	0.681	1.005	0.948	0.41	-2.96
Fine Dust	MING1	36.972	-90.143	-0.020	0.064	1.216	0.829	1.100	1.013	0.32	-2.01
Fine Dust	MOHO1	45.289	-121.784	0.000	0.948	0.278	0.273	0.317	0.276	0.13	-0.09
Fine Dust	MOMO1	41.821	-73.297	-0.017	0.000	0.471	0.154	0.296	0.296	0.10	-5.66
Fine Dust	MONT1	47.122	-113.154	-0.007	0.330	0.668	0.533	0.633	0.601	0.24	-1.18
Fine Dust	MOOS1	45.126	-67.266	-0.009	0.000	0.285	0.118	0.197	0.202	0.06	-4.37
Fine Dust	MORA1	46.758	-122.124	-0.009	0.000	0.274	0.106	0.207	0.190	0.06	-4.63
Fine Dust	MOZI1	40.538	-106.677	-0.011	0.014	0.598	0.384	0.495	0.491	0.11	-2.30
Fine Dust	NEBR1	41.889	-100.339	-0.005	0.471	0.676	0.585	0.678	0.621	0.23	-0.77
Fine Dust	NOAB1	44.745	-109.382	-0.009	0.016	0.530	0.356	0.446	0.443	0.11	-2.07
Fine Dust	NOCA1	48.732	-121.065	-0.005	0.014	0.204	0.109	0.176	0.157	0.06	-3.22
Fine Dust	NOCH1	45.65	-106.557	-0.005	0.058	0.547	0.445	0.532	0.488	0.10	-1.11
Fine Dust	OKEF1	30.74	-82.128	-0.007	0.299	0.831	0.691	0.764	0.761	0.15	-0.97
Fine Dust	OLYM1	48.007	-122.973	-0.004	0.025	0.173	0.093	0.143	0.129	0.04	-3.27
Fine Dust	ORPI1	31.951	-112.802	-0.022	0.217	1.889	1.467	1.614	1.644	0.32	-1.35
Fine Dust	PASA1	48.388	-119.927	-0.006	0.039	0.338	0.233	0.308	0.283	0.09	-1.97
Fine Dust	PEFO1	35.078	-109.769	-0.021	0.052	1.248	0.851	1.104	1.050	0.22	-1.99
Fine Dust	PENO1	44.948	-68.648	-0.013	0.014	0.448	0.209	0.306	0.291	0.08	-4.33
Fine Dust	PINN1	36.483	-121.157	-0.003	0.173	0.461	0.412	0.436	0.436	0.05	-0.60
Fine Dust	PMRF1	44.528	-72.869	-0.011	0.000	0.330	0.122	0.233	0.220	0.08	-4.98
Fine Dust	PORE1	38.122	-122.909	-0.001	0.436	0.228	0.212	0.230	0.220	0.05	-0.38
Fine Dust	PRIS1	46.696	-68.033	-0.020	0.001	0.650	0.273	0.480	0.451	0.16	-4.39
Fine Dust	QUCI1	39.943	-81.338	-0.021	0.001	0.733	0.332	0.515	0.522	0.15	-4.05
Fine Dust	QURE1	42.299	-72.335	-0.015	0.015	0.466	0.188	0.330	0.349	0.09	-4.19
Fine Dust	QUVA1	33.294	-111.286	-0.021	0.299	2.032	1.642	1.769	1.868	0.34	-1.10
Fine Dust	RAFA1	34.734	-120.007	-0.005	0.136	0.794	0.695	0.738	0.744	0.11	-0.70

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Fine Dust	REDW1	41.561	-124.084	-0.002	0.105	0.172	0.133	0.154	0.153	0.04	-1.34
Fine Dust	ROMA1	32.941	-79.657	-0.006	0.330	0.686	0.568	0.605	0.627	0.13	-1.00
Fine Dust	ROMO1	40.278	-105.546	-0.019	0.002	0.841	0.485	0.691	0.663	0.16	-2.82
Fine Dust	SACR1	33.46	-104.404	-0.015	0.299	1.624	1.338	1.709	1.481	0.63	-1.02
Fine Dust	SAGA1	34.297	-118.028	-0.006	0.322	0.768	0.647	0.708	0.701	0.12	-0.91
Fine Dust	SAGO1	34.194	-116.913	-0.013	0.032	0.848	0.598	0.745	0.723	0.14	-1.82
Fine Dust	SAGU1	32.175	-110.737	-0.062	0.007	2.423	1.248	1.941	1.805	0.61	-3.43
Fine Dust	SAMA1	30.093	-84.161	-0.004	0.807	0.833	0.763	0.780	0.796	0.16	-0.47
Fine Dust	SAPE1	36.014	-106.845	-0.015	0.278	0.922	0.645	0.761	0.777	0.20	-1.88
Fine Dust	SAWE1	32.249	-111.218	-0.098	0.006	3.500	1.629	2.725	2.466	0.75	-3.99
Fine Dust	SAWT1	44.171	-114.927	-0.012	0.023	0.544	0.308	0.461	0.426	0.12	-2.92
Fine Dust	SENE1	46.289	-85.95	-0.011	0.000	0.353	0.153	0.235	0.253	0.07	-4.16
Fine Dust	SEQU1	36.489	-118.829	0.004	0.516	0.969	1.042	0.975	1.005	0.16	0.38
Fine Dust	SHEN1	38.523	-78.435	-0.014	0.005	0.534	0.261	0.395	0.398	0.12	-3.61
Fine Dust	SHMI1	37.304	-107.484	-0.014	0.520	1.382	1.123	1.320	1.218	0.37	-1.12
Fine Dust	SHRO1	35.394	-82.774	-0.019	0.006	0.674	0.316	0.502	0.495	0.18	-3.80
Fine Dust	SIAN1	34.091	-110.942	-0.027	0.059	1.474	0.953	1.146	1.268	0.27	-2.16
Fine Dust	SIME1	55.326	-160.506	-0.003	0.000	0.134	0.076	0.117	0.102	0.03	-3.01
Fine Dust	SIPS1	34.343	-87.339	-0.008	0.299	0.757	0.599	0.698	0.678	0.18	-1.23
Fine Dust	SNPA1	47.422	-121.426	-0.005	0.060	0.250	0.159	0.207	0.205	0.06	-2.34
Fine Dust	STAR1	45.225	-118.513	-0.019	0.000	0.678	0.323	0.526	0.500	0.14	-3.74
Fine Dust	SULA1	45.86	-114	-0.012	0.009	0.447	0.220	0.374	0.339	0.13	-3.52
Fine Dust	SWAN1	35.451	-76.207	-0.010	0.037	0.542	0.346	0.453	0.434	0.12	-2.37
Fine Dust	SYCA1	35.141	-111.969	-0.046	0.126	3.083	2.216	3.018	2.741	0.71	-1.66
Fine Dust	TALL1	38.434	-96.56	-0.008	0.410	0.872	0.724	0.854	0.786	0.19	-0.99
Fine Dust	THBA1	44.663	-105.287	-0.025	0.009	1.150	0.678	0.908	0.865	0.27	-2.87
Fine Dust	THRO1	46.895	-103.378	-0.016	0.003	0.814	0.514	0.689	0.664	0.14	-2.38
Fine Dust	THSI1	44.291	-122.043	0.008	0.105	0.298	0.451	0.429	0.374	0.24	2.15
Fine Dust	TONT1	33.655	-111.107	-0.022	0.173	1.659	1.240	1.423	1.450	0.33	-1.52
Fine Dust	TRCR1	62.315	-150.316	-0.005	0.031	0.184	0.093	0.155	0.134	0.06	-3.58
Fine Dust	TRIN1	40.786	-122.805	-0.014	0.024	0.526	0.264	0.416	0.409	0.11	-3.38
Fine Dust	ULBE1	47.582	-108.72	-0.012	0.008	0.602	0.370	0.498	0.486	0.14	-2.51
Fine Dust	UPBU1	35.826	-93.203	-0.014	0.119	0.987	0.717	0.857	0.852	0.20	-1.66
Fine Dust	VIIS1	18.336	-64.796	-0.016	0.677	2.782	2.476	2.585	2.645	0.61	-0.61
Fine Dust	VILA1	40.969	-95.045	-0.013	0.032	0.874	0.636	0.741	0.736	0.13	-1.70
Fine Dust	VOYA2	48.413	-92.829	-0.006	0.004	0.341	0.218	0.266	0.279	0.06	-2.32

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Fine Dust	WEMI1	37.659	-107.8	-0.004	0.364	0.677	0.601	0.671	0.639	0.23	-0.63
Fine Dust	WHIT1	33.469	-105.535	-0.010	0.426	1.158	0.970	1.071	1.054	0.30	-0.94
Fine Dust	WHPA1	46.624	-121.388	-0.005	0.016	0.243	0.142	0.204	0.192	0.07	-2.75
Fine Dust	WHPE1	36.585	-105.452	-0.018	0.025	0.880	0.531	0.694	0.688	0.15	-2.67
Fine Dust	WHRI1	39.154	-106.821	-0.002	0.697	0.641	0.609	0.605	0.625	0.14	-0.27
Fine Dust	WICA1	43.558	-103.484	-0.008	0.060	0.677	0.523	0.604	0.600	0.11	-1.35
Fine Dust	WIMO1	34.732	-98.713	0.005	0.552	0.995	1.083	1.070	1.041	0.22	0.45
Fine Dust	YELL2	44.565	-110.4	-0.010	0.009	0.440	0.252	0.367	0.346	0.09	-2.87
Fine Dust	YOSE1	37.713	-119.706	0.000	0.948	0.618	0.623	0.585	0.620	0.11	0.04
Fine Dust	ZICA1	37.198	-113.151	0.002	0.805	0.892	0.931	0.981	0.914	0.21	0.22
FM	ACAD1	44.377	-68.261	-0.137	0.000	5.196	2.595	4.013	3.895	0.86	-3.51
FM	AGTI1	33.464	-116.971	-0.198	0.000	7.171	3.402	5.627	5.187	1.29	-3.82
FM	BADL1	43.743	-101.941	-0.038	0.038	3.818	3.105	3.465	3.462	0.41	-1.08
FM	BALD1	34.058	-109.441	-0.053	0.005	3.287	2.289	2.825	2.762	0.46	-1.90
FM	BAND1	35.78	-106.266	-0.048	0.006	3.434	2.521	3.082	2.977	0.50	-1.61
FM	BIBE1	29.303	-103.178	-0.093	0.000	6.117	4.358	5.424	5.237	0.81	-1.77
FM	BLIS1	38.976	-120.103	0.014	0.649	2.954	3.214	3.134	3.077	0.61	0.44
FM	BOAP1	33.869	-106.852	-0.035	0.119	3.892	3.237	3.642	3.565	0.63	-0.97
FM	BOND1	40.052	-88.373	-0.315	0.000	12.222	6.238	9.095	9.072	2.04	-3.47
FM	BOWA1	47.947	-91.495	-0.087	0.000	4.414	2.770	3.770	3.592	0.67	-2.41
FM	BRCA1	37.618	-112.174	-0.027	0.038	2.752	2.245	2.548	2.498	0.31	-1.07
FM	BRID1	42.975	-109.758	-0.005	0.897	2.349	2.248	2.390	2.298	0.48	-0.23
FM	BRIG1	39.465	-74.449	-0.336	0.000	10.836	4.452	7.899	7.644	2.04	-4.40
FM	BRMA1	44.107	-70.729	-0.162	0.000	6.138	3.066	4.759	4.844	0.84	-3.34
FM	CABA1	43.833	-70.064	-0.193	0.000	7.106	3.445	5.377	5.180	1.18	-3.72
FM	CABI1	47.955	-115.671	-0.004	0.916	3.088	3.003	3.147	3.043	0.67	-0.15
FM	CACO1	41.976	-70.024	-0.205	0.000	7.464	3.564	5.665	5.412	1.20	-3.79
FM	CACR1	34.454	-94.143	-0.238	0.000	9.734	5.211	7.491	7.353	1.41	-3.24
FM	CANY1	38.459	-109.821	-0.043	0.011	3.001	2.192	2.747	2.596	0.42	-1.64
FM	CAPI1	38.302	-111.293	-0.029	0.009	2.893	2.345	2.691	2.619	0.36	-1.10
FM	CEBL1	38.77	-99.763	-0.100	0.007	6.370	4.467	5.310	5.268	0.67	-1.90
FM	CHAS1	28.748	-82.555	-0.217	0.000	9.340	5.212	7.493	7.059	1.50	-3.08
FM	CHIR1	32.009	-109.389	-0.054	0.008	4.023	3.004	3.448	3.513	0.55	-1.53
FM	COHU1	34.785	-84.627	-0.371	0.000	11.027	3.979	7.677	7.132	2.30	-5.20
FM	CORI1	45.664	-121.001	-0.058	0.151	5.709	4.600	5.155	5.125	0.64	-1.14
FM	CRLA1	42.896	-122.136	0.001	0.970	2.459	2.477	2.928	2.469	1.52	0.04

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FM	CRMO1	43.46	-113.555	-0.025	0.399	3.096	2.627	3.028	2.862	0.82	-0.86
FM	DENA1	63.723	-148.967	-0.014	0.299	1.478	1.203	1.458	1.340	0.47	-1.08
FM	DOME1	35.728	-118.138	-0.027	0.278	5.412	4.901	5.196	5.143	0.62	-0.52
FM	DOSO1	39.105	-79.426	-0.386	0.000	10.845	3.503	7.259	7.174	2.38	-5.39
FM	EGBE1	44.231	-79.783	-0.214	0.000	8.890	4.818	6.197	6.211	1.03	-3.45
FM	EVER1	25.391	-80.681	-0.130	0.000	7.597	5.122	6.230	6.295	0.82	-2.07
FM	FLAT1	47.773	-114.269	-0.007	0.869	2.822	2.695	3.214	2.748	0.87	-0.24
FM	FOPE1	48.308	-105.102	0.004	0.869	3.717	3.785	3.895	3.756	0.65	0.09
FM	FRRE1	39.706	-79.012	-0.409	0.000	11.493	3.718	7.197	6.787	2.14	-6.03
FM	GAMO1	46.826	-111.711	-0.003	0.910	2.141	2.090	2.218	2.115	0.53	-0.13
FM	GICL1	33.22	-108.235	-0.048	0.008	3.603	2.700	3.209	3.152	0.51	-1.51
FM	GLAC1	48.511	-113.997	-0.080	0.092	5.544	4.026	4.752	4.785	0.95	-1.67
FM	GRBA1	39.005	-114.216	-0.018	0.080	2.616	2.278	2.483	2.447	0.38	-0.73
FM	GRCA2	36.066	-112.154	-0.021	0.069	2.988	2.582	2.734	2.785	0.38	-0.77
FM	GRGU1	44.308	-71.218	-0.155	0.000	5.229	2.289	3.904	3.681	0.95	-4.20
FM	GRR11	43.937	-91.405	-0.237	0.000	9.158	4.664	6.546	6.556	1.25	-3.61
FM	GRSA1	37.725	-105.519	-0.057	0.014	3.597	2.519	3.085	3.058	0.53	-1.86
FM	GRSM1	35.633	-83.942	-0.408	0.000	11.771	4.009	8.099	7.890	2.64	-5.18
FM	GUMO1	31.833	-104.809	-0.019	0.604	5.214	4.850	4.982	5.032	0.83	-0.38
FM	HAVO1	19.431	-155.258	0.029	0.649	3.822	4.372	4.051	4.112	1.21	0.70
FM	HECA1	44.97	-116.844	-0.038	0.463	3.881	3.161	3.602	3.502	0.77	-1.08
FM	HEGL1	36.614	-92.922	-0.271	0.000	10.172	5.028	7.623	7.464	1.63	-3.63
FM	HOOV1	38.088	-119.177	-0.002	0.850	2.559	2.527	2.787	2.542	0.62	-0.07
FM	IKBA1	34.34	-111.683	-0.063	0.001	4.242	3.048	3.683	3.645	0.61	-1.72
FM	ISLE1	47.46	-88.149	-0.099	0.000	4.678	2.799	3.864	3.739	0.65	-2.65
FM	JARB1	41.893	-115.426	0.000	1.000	3.066	3.071	2.977	3.068	0.56	0.01
FM	JARI1	37.627	-79.512	-0.389	0.000	12.248	4.857	8.533	8.358	2.32	-4.65
FM	JOSH1	34.07	-116.389	-0.118	0.000	5.382	3.134	4.314	4.258	0.78	-2.78
FM	KAIS1	37.221	-119.155	0.013	0.791	3.257	3.500	3.562	3.391	0.65	0.38
FM	KALM1	42.552	-124.059	0.002	0.948	3.121	3.158	3.329	3.140	0.63	0.06
FM	LABE1	41.712	-121.507	0.021	0.559	2.877	3.280	3.335	3.079	1.58	0.69
FM	LASU2	40.693	-92.006	-0.283	0.000	10.633	5.250	7.548	7.233	1.53	-3.92
FM	LAVO1	40.54	-121.577	0.008	0.846	2.763	2.908	3.254	2.835	1.23	0.27
FM	LIGO1	35.972	-81.933	-0.335	0.000	10.198	3.832	7.662	7.015	2.44	-4.78
FM	LOST1	48.642	-102.402	-0.029	0.105	4.837	4.280	4.591	4.559	0.47	-0.64
FM	MACA1	37.132	-86.148	-0.379	0.000	12.384	5.175	8.973	8.779	2.39	-4.32

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FM	MAVI1	41.331	-70.785	-0.199	0.000	8.142	4.354	6.027	5.949	1.11	-3.35
FM	MEAD1	36.019	-114.068	-0.067	0.004	4.083	2.812	3.341	3.347	0.48	-2.00
FM	MELA1	48.487	-104.476	-0.007	0.650	4.035	3.896	4.011	3.966	0.45	-0.18
FM	MEVE1	37.198	-108.491	-0.070	0.000	3.615	2.292	2.957	2.954	0.78	-2.36
FM	MING1	36.972	-90.143	-0.319	0.000	12.065	6.011	9.230	8.879	2.18	-3.59
FM	MOHO1	45.289	-121.784	-0.016	0.516	2.428	2.120	2.311	2.274	0.48	-0.71
FM	MOMO1	41.821	-73.297	-0.239	0.000	7.188	2.652	5.268	4.681	1.38	-5.10
FM	MONT1	47.122	-113.154	-0.029	0.604	3.547	2.998	3.769	3.273	1.52	-0.88
FM	MOOS1	45.126	-67.266	-0.134	0.000	4.863	2.312	3.817	3.588	0.84	-3.74
FM	MORA1	46.758	-122.124	-0.068	0.003	3.766	2.472	3.131	3.119	0.51	-2.18
FM	MOZI1	40.538	-106.677	-0.031	0.027	2.559	1.963	2.219	2.261	0.37	-1.39
FM	NEBR1	41.889	-100.339	-0.067	0.024	5.040	3.764	4.271	4.268	0.58	-1.57
FM	NOAB1	44.745	-109.382	-0.030	0.218	2.524	1.956	2.340	2.240	0.69	-1.33
FM	NOCA1	48.732	-121.065	-0.026	0.330	2.557	2.066	2.534	2.311	0.95	-1.12
FM	NOCH1	45.65	-106.557	-0.017	0.621	3.155	2.829	3.184	2.966	0.73	-0.58
FM	OKEF1	30.74	-82.128	-0.229	0.000	10.078	5.733	7.849	7.905	1.53	-2.89
FM	OLYM1	48.007	-122.973	-0.051	0.021	3.199	2.233	2.685	2.665	0.39	-1.91
FM	ORPI1	31.951	-112.802	-0.075	0.004	5.078	3.657	4.230	4.256	0.53	-1.76
FM	PASA1	48.388	-119.927	-0.006	0.916	2.658	2.549	2.770	2.601	1.10	-0.22
FM	PEFO1	35.078	-109.769	-0.063	0.011	3.975	2.778	3.414	3.376	0.53	-1.87
FM	PENO1	44.948	-68.648	-0.173	0.000	6.832	3.540	4.587	4.666	0.75	-3.71
FM	PINN1	36.483	-121.157	-0.031	0.194	4.592	4.006	4.323	4.299	0.54	-0.72
FM	PMRF1	44.528	-72.869	-0.198	0.000	6.389	2.628	4.656	4.410	1.19	-4.49
FM	PORE1	38.122	-122.909	-0.016	0.650	5.878	5.567	5.992	5.722	1.02	-0.29
FM	PRIS1	46.696	-68.033	-0.148	0.000	5.741	2.929	4.382	4.261	0.92	-3.47
FM	QUCI1	39.943	-81.338	-0.372	0.000	12.245	5.181	8.818	8.527	2.28	-4.36
FM	QURE1	42.299	-72.335	-0.267	0.000	8.025	2.944	5.880	5.886	1.25	-4.54
FM	QUVA1	33.294	-111.286	-0.086	0.042	5.682	4.039	4.708	4.990	0.69	-1.73
FM	RAFA1	34.734	-120.007	-0.087	0.004	5.209	3.547	4.419	4.378	0.72	-2.00
FM	REDW1	41.561	-124.084	-0.008	0.846	3.562	3.414	3.569	3.488	0.60	-0.22
FM	ROMA1	32.941	-79.657	-0.274	0.000	10.244	5.033	7.939	7.638	1.72	-3.59
FM	ROMO1	40.278	-105.546	-0.050	0.027	3.257	2.315	2.750	2.786	0.45	-1.78
FM	SACR1	33.46	-104.404	-0.073	0.032	6.130	4.740	5.655	5.435	1.06	-1.35
FM	SAGA1	34.297	-118.028	-0.088	0.002	4.685	3.004	3.776	3.756	0.70	-2.35
FM	SAGO1	34.194	-116.913	-0.160	0.000	5.887	2.845	4.636	4.366	1.07	-3.67
FM	SAGU1	32.175	-110.737	-0.127	0.000	5.815	3.399	4.656	4.543	0.96	-2.80

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FM	SAMA1	30.093	-84.161	-0.246	0.000	10.251	5.579	7.766	7.792	1.50	-3.16
FM	SAPE1	36.014	-106.845	-0.039	0.006	2.763	2.015	2.486	2.369	0.42	-1.66
FM	SAWE1	32.249	-111.218	-0.121	0.006	6.515	4.220	5.535	5.247	1.12	-2.30
FM	SAWT1	44.171	-114.927	-0.023	0.559	3.321	2.881	3.411	3.101	1.09	-0.75
FM	SENE1	46.289	-85.95	-0.125	0.000	5.426	3.060	4.301	4.243	0.91	-2.93
FM	SEQU1	36.489	-118.829	-0.095	0.032	8.343	6.533	7.743	7.438	1.25	-1.28
FM	SHEN1	38.523	-78.435	-0.344	0.000	10.054	3.516	7.314	6.785	2.20	-5.07
FM	SHMI1	37.304	-107.484	-0.043	0.181	3.810	3.001	3.206	3.299	0.49	-1.29
FM	SHRO1	35.394	-82.774	-0.288	0.000	8.547	3.081	6.156	5.814	2.02	-4.95
FM	SIAN1	34.091	-110.942	-0.082	0.015	4.591	3.038	3.839	3.978	0.56	-2.05
FM	SIME1	55.326	-160.506	-0.011	0.520	2.941	2.741	2.777	2.830	0.28	-0.37
FM	SIPS1	34.343	-87.339	-0.334	0.000	12.019	5.674	8.987	8.846	2.35	-3.78
FM	SNPA1	47.422	-121.426	-0.048	0.060	3.075	2.155	2.776	2.615	0.64	-1.85
FM	STAR1	45.225	-118.513	-0.086	0.027	4.128	2.490	3.471	3.309	0.78	-2.60
FM	SULA1	45.86	-114	-0.015	0.600	2.774	2.491	3.230	2.640	1.78	-0.57
FM	SWAN1	35.451	-76.207	-0.245	0.000	9.437	4.788	6.884	6.868	1.47	-3.56
FM	SYCA1	35.141	-111.969	-0.083	0.150	5.724	4.156	5.486	5.105	0.97	-1.62
FM	TALL1	38.434	-96.56	-0.172	0.000	8.996	5.729	7.079	7.105	1.13	-2.42
FM	THBA1	44.663	-105.287	-0.036	0.368	3.996	3.315	3.666	3.584	0.65	-1.00
FM	THRO1	46.895	-103.378	-0.039	0.044	4.389	3.640	3.990	4.014	0.47	-0.98
FM	THSI1	44.291	-122.043	0.010	0.559	2.711	2.902	3.094	2.807	1.26	0.36
FM	TONT1	33.655	-111.107	-0.060	0.006	4.693	3.555	4.243	4.124	0.65	-1.45
FM	TRCR1	62.315	-150.316	-0.029	0.017	1.822	1.276	1.613	1.520	0.40	-1.89
FM	TRIN1	40.786	-122.805	-0.008	0.857	3.001	2.858	3.846	2.937	2.46	-0.26
FM	ULBE1	47.582	-108.72	-0.012	0.697	3.273	3.053	3.270	3.163	0.53	-0.37
FM	UPBU1	35.826	-93.203	-0.231	0.000	9.724	5.326	7.557	7.525	1.50	-3.08
FM	VIIS1	18.336	-64.796	-0.013	0.570	6.604	6.356	6.407	6.493	0.72	-0.20
FM	VILA1	40.969	-95.045	-0.247	0.000	10.618	5.917	7.552	7.896	1.38	-3.13
FM	VOYA2	48.413	-92.829	-0.062	0.000	4.471	3.300	3.869	3.886	0.46	-1.59
FM	WEMI1	37.659	-107.8	-0.036	0.032	2.882	2.196	2.430	2.539	0.41	-1.42
FM	WHIT1	33.469	-105.535	-0.039	0.063	3.830	3.098	3.608	3.425	0.68	-1.12
FM	WHPA1	46.624	-121.388	-0.009	0.697	1.961	1.783	1.866	1.872	0.54	-0.50
FM	WHPE1	36.585	-105.452	-0.055	0.000	2.807	1.768	2.316	2.233	0.36	-2.45
FM	WHRI1	39.154	-106.821	-0.040	0.001	2.496	1.728	2.070	2.112	0.33	-1.92
FM	WICA1	43.558	-103.484	-0.025	0.153	3.618	3.139	3.333	3.378	0.36	-0.75
FM	WIMO1	34.732	-98.713	-0.141	0.000	8.171	5.493	6.693	6.761	0.95	-2.09

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FM	YELL2	44.565	-110.4	-0.024	0.330	2.751	2.296	2.542	2.523	0.49	-0.95
FM	YOSE1	37.713	-119.706	0.002	0.948	4.093	4.125	4.543	4.109	1.53	0.04
FM	ZICA1	37.198	-113.151	-0.051	0.013	3.534	2.573	3.077	2.978	0.42	-1.70
CM	ACAD1	44.377	-68.261	0.039	0.038	2.209	2.955	2.567	2.582	0.40	1.52
CM	AGTI1	33.464	-116.971	-0.131	0.064	9.564	7.067	8.359	8.250	1.37	-1.59
CM	BADL1	43.743	-101.941	-0.091	0.006	5.460	3.733	4.809	4.596	0.81	-1.98
CM	BALD1	34.058	-109.441	-0.044	0.054	3.341	2.505	2.891	2.901	0.53	-1.52
CM	BAND1	35.78	-106.266	0.000	0.948	3.116	3.122	3.307	3.119	0.70	0.01
CM	BIBE1	29.303	-103.178	-0.040	0.697	6.656	5.891	6.709	6.273	1.92	-0.64
CM	BLIS1	38.976	-120.103	0.029	0.005	1.900	2.459	2.206	2.165	0.27	1.36
CM	BOAP1	33.869	-106.852	-0.037	0.270	5.646	4.949	5.977	5.297	1.98	-0.69
CM	BOND1	40.052	-88.373	0.055	0.100	6.066	7.115	6.548	6.618	0.81	0.83
CM	BOWA1	47.947	-91.495	-0.006	0.604	2.501	2.380	2.457	2.440	0.39	-0.26
CM	BRCA1	37.618	-112.174	-0.013	0.516	2.870	2.631	2.721	2.751	0.47	-0.46
CM	BRID1	42.975	-109.758	-0.011	0.364	1.964	1.764	1.779	1.864	0.25	-0.56
CM	BRIG1	39.465	-74.449	0.044	0.697	7.377	8.212	8.820	7.794	3.30	0.56
CM	BRMA1	44.107	-70.729	-0.012	0.729	2.220	1.998	2.170	2.127	0.36	-0.55
CM	CABA1	43.833	-70.064	0.023	0.248	2.804	3.249	3.280	3.038	0.60	0.77
CM	CABI1	47.955	-115.671	-0.025	0.278	2.498	2.032	2.239	2.252	0.33	-1.09
CM	CACO1	41.976	-70.024	-0.014	0.700	5.194	4.924	5.137	5.052	0.58	-0.28
CM	CACR1	34.454	-94.143	-0.023	0.463	5.721	5.277	5.425	5.487	0.73	-0.43
CM	CANY1	38.459	-109.821	-0.016	0.436	3.514	3.213	3.540	3.363	0.71	-0.47
CM	CAPI1	38.302	-111.293	0.013	0.649	3.104	3.359	3.259	3.238	0.66	0.41
CM	CEBL1	38.77	-99.763	0.082	0.323	7.138	8.701	8.288	8.043	1.62	1.02
CM	CHAS1	28.748	-82.555	-0.004	0.910	5.496	5.425	5.489	5.457	0.54	-0.07
CM	CHIR1	32.009	-109.389	0.025	0.516	6.234	6.716	6.088	6.475	1.35	0.39
CM	COHU1	34.785	-84.627	0.095	0.003	2.212	4.013	3.271	3.207	0.64	2.96
CM	CORI1	45.664	-121.001	0.223	0.086	7.235	11.470	10.187	9.464	3.11	2.35
CM	CRLA1	42.896	-122.136	-0.033	0.003	1.630	1.003	1.344	1.283	0.31	-2.57
CM	CRMO1	43.46	-113.555	-0.027	0.132	3.319	2.814	3.204	3.053	0.81	-0.87
CM	DENA1	63.723	-148.967	0.022	0.060	1.002	1.412	1.241	1.207	0.25	1.79
CM	DOME1	35.728	-118.138	0.160	0.054	8.217	11.258	9.808	9.817	1.79	1.63
CM	DOSO1	39.105	-79.426	0.028	0.092	2.188	2.722	2.459	2.455	0.37	1.14
CM	EGBE1	44.231	-79.783	0.005	0.784	4.082	4.177	4.120	4.145	0.58	0.12
CM	EVER1	25.391	-80.681	0.093	0.100	5.633	7.391	6.965	6.558	1.39	1.41
CM	FLAT1	47.773	-114.269	-0.007	0.680	2.460	2.327	2.407	2.383	0.35	-0.29



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CM	FOPE1	48.308	-105.102	0.040	0.284	4.112	4.873	4.680	4.552	0.64	0.88
CM	FRRE1	39.706	-79.012	0.014	0.857	3.355	3.613	3.670	3.511	0.76	0.39
CM	GAMO1	46.826	-111.711	-0.008	0.472	1.550	1.402	1.474	1.476	0.21	-0.53
CM	GICL1	33.22	-108.235	0.019	0.559	2.735	3.094	2.973	2.914	0.64	0.65
CM	GLAC1	48.511	-113.997	-0.054	0.105	4.932	3.905	4.518	4.418	0.81	-1.22
CM	GRBA1	39.005	-114.216	0.014	0.795	2.912	3.180	3.005	3.046	0.50	0.46
CM	GRCA2	36.066	-112.154	-0.062	0.009	3.176	1.991	2.594	2.646	0.51	-2.36
CM	GRGU1	44.308	-71.218	-0.024	0.011	2.646	2.182	2.431	2.401	0.22	-1.02
CM	GRII1	43.937	-91.405	-0.109	0.032	6.699	4.628	5.662	5.500	1.09	-1.98
CM	GRSA1	37.725	-105.519	-0.148	0.009	5.342	2.539	4.124	3.940	1.39	-3.74
CM	GRSM1	35.633	-83.942	0.003	0.897	3.671	3.724	3.691	3.698	0.49	0.07
CM	GUMO1	31.833	-104.809	-0.108	0.270	9.993	7.942	9.671	8.968	3.12	-1.20
CM	HAVO1	19.431	-155.258	0.016	0.086	1.346	1.643	1.513	1.503	0.26	1.04
CM	HECA1	44.97	-116.844	-0.011	0.382	3.067	2.857	2.978	2.956	0.30	-0.37
CM	HEGL1	36.614	-92.922	0.029	0.700	5.041	5.599	5.368	5.335	0.79	0.55
CM	HOOV1	38.088	-119.177	-0.030	0.185	2.509	1.941	2.383	2.195	0.50	-1.36
CM	IKBA1	34.34	-111.683	-0.049	0.218	5.473	4.535	5.224	5.004	1.01	-0.99
CM	ISLE1	47.46	-88.149	-0.055	0.008	3.431	2.388	2.959	2.910	0.57	-1.89
CM	JARB1	41.893	-115.426	0.007	0.846	3.605	3.743	3.833	3.674	0.63	0.20
CM	JARI1	37.627	-79.512	-0.043	0.064	4.031	3.209	3.468	3.598	0.58	-1.20
CM	JOSH1	34.07	-116.389	-0.032	0.604	7.352	6.752	7.058	7.052	1.09	-0.45
CM	KAIS1	37.221	-119.155	0.019	0.306	3.626	3.979	3.805	3.821	0.52	0.49
CM	KALM1	42.552	-124.059	-0.011	0.136	2.350	2.147	2.263	2.249	0.31	-0.48
CM	LABE1	41.712	-121.507	-0.011	0.436	2.280	2.068	2.221	2.174	0.29	-0.51
CM	LASU2	40.693	-92.006	0.166	0.299	5.920	9.070	7.971	7.909	1.69	2.10
CM	LAVO1	40.54	-121.577	0.035	0.069	2.024	2.691	2.344	2.357	0.56	1.49
CM	LIGO1	35.972	-81.933	-0.005	0.972	2.940	2.849	2.845	2.892	0.37	-0.17
CM	LOST1	48.642	-102.402	0.030	0.243	5.733	6.297	6.473	6.015	1.12	0.49
CM	MACA1	37.132	-86.148	0.032	0.173	3.776	4.388	3.828	4.082	0.75	0.79
CM	MAVI1	41.331	-70.785	0.358	0.000	2.328	9.135	7.987	6.269	3.87	5.71
CM	MEAD1	36.019	-114.068	-0.029	0.458	5.736	5.180	5.414	5.414	0.84	-0.54
CM	MELA1	48.487	-104.476	0.011	0.846	5.705	5.917	5.730	5.811	0.70	0.19
CM	MEVE1	37.198	-108.491	-0.056	0.092	3.493	2.422	3.546	2.957	1.47	-1.91
CM	MING1	36.972	-90.143	0.002	0.972	8.318	8.348	8.371	8.334	1.58	0.02
CM	MOHO1	45.289	-121.784	0.017	0.299	1.401	1.725	1.694	1.563	0.66	1.09
CM	MOMO1	41.821	-73.297	-0.009	0.510	2.845	2.677	2.778	2.748	0.52	-0.32

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CM	MONT1	47.122	-113.154	0.015	0.846	2.259	2.553	2.673	2.406	1.12	0.64
CM	MOOS1	45.126	-67.266	-0.025	0.032	2.321	1.843	2.160	2.082	0.37	-1.21
CM	MORA1	46.758	-122.124	-0.018	0.218	2.284	1.939	2.114	2.111	0.36	-0.86
CM	MOZI1	40.538	-106.677	-0.074	0.008	2.783	1.384	2.328	2.084	0.70	-3.53
CM	NEBR1	41.889	-100.339	-0.007	0.787	4.982	4.858	5.052	4.907	0.88	-0.13
CM	NOAB1	44.745	-109.382	-0.055	0.000	2.922	1.880	2.418	2.429	0.46	-2.26
CM	NOCA1	48.732	-121.065	0.003	0.697	1.181	1.246	1.286	1.213	0.27	0.28
CM	NOCH1	45.65	-106.557	-0.017	0.621	3.290	2.964	3.174	3.101	0.59	-0.55
CM	OKEF1	30.74	-82.128	0.051	0.173	4.185	5.160	4.900	4.672	1.00	1.10
CM	OLYM1	48.007	-122.973	-0.022	0.075	1.725	1.307	1.496	1.494	0.23	-1.47
CM	ORPI1	31.951	-112.802	0.051	0.458	7.244	8.208	8.161	7.802	1.39	0.65
CM	PASA1	48.388	-119.927	0.012	0.345	1.420	1.656	1.658	1.544	0.50	0.81
CM	PEFO1	35.078	-109.769	-0.004	0.795	4.621	4.546	4.713	4.584	1.21	-0.09
CM	PENO1	44.948	-68.648	0.051	0.352	3.786	4.753	4.498	4.422	1.08	1.15
CM	PINN1	36.483	-121.157	0.040	0.105	5.347	6.112	5.667	5.730	0.57	0.70
CM	PMRF1	44.528	-72.869	-0.018	0.310	2.340	1.997	2.117	2.159	0.29	-0.83
CM	PORE1	38.122	-122.909	-0.044	0.243	7.958	7.113	7.659	7.536	0.97	-0.59
CM	PRIS1	46.696	-68.033	-0.054	0.151	6.165	5.132	5.820	5.622	0.78	-0.97
CM	QUCI1	39.943	-81.338	0.025	0.552	4.857	5.336	5.170	5.109	1.37	0.49
CM	QURE1	42.299	-72.335	-0.030	0.216	2.754	2.185	2.544	2.514	0.40	-1.19
CM	QUVA1	33.294	-111.286	-0.072	0.400	10.423	9.063	10.101	9.850	1.69	-0.73
CM	RAFA1	34.734	-120.007	0.017	0.697	7.245	7.563	7.302	7.404	0.76	0.23
CM	REDW1	41.561	-124.084	0.025	0.173	3.606	4.085	3.945	3.846	0.75	0.66
CM	ROMA1	32.941	-79.657	0.021	0.746	5.534	5.931	5.701	5.733	0.82	0.36
CM	ROMO1	40.278	-105.546	-0.057	0.044	3.673	2.593	3.240	3.133	0.82	-1.81
CM	SACR1	33.46	-104.404	0.119	0.270	10.690	12.958	11.961	11.824	3.41	1.01
CM	SAGA1	34.297	-118.028	-0.003	0.857	5.277	5.226	5.516	5.249	1.56	-0.05
CM	SAGO1	34.194	-116.913	-0.040	0.092	6.049	5.285	5.577	5.667	0.92	-0.71
CM	SAGU1	32.175	-110.737	0.066	0.382	7.018	8.278	7.525	7.682	1.10	0.86
CM	SAMA1	30.093	-84.161	0.044	0.100	3.716	4.561	4.397	4.161	0.78	1.07
CM	SAPE1	36.014	-106.845	0.002	0.916	2.150	2.182	2.272	2.167	0.65	0.08
CM	SAWE1	32.249	-111.218	-0.006	0.850	11.060	10.946	10.948	10.997	1.58	-0.05
CM	SAWT1	44.171	-114.927	-0.018	0.278	1.782	1.433	1.646	1.598	0.36	-1.15
CM	SENE1	46.289	-85.95	-0.010	0.330	2.138	1.954	2.006	2.046	0.30	-0.47
CM	SEQU1	36.489	-118.829	0.058	0.330	9.200	10.311	9.295	9.756	1.39	0.60
CM	SHEN1	38.523	-78.435	-0.004	0.897	3.161	3.079	3.158	3.120	0.58	-0.14

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CM	SHMI1	37.304	-107.484	-0.044	0.125	5.148	4.320	4.633	4.625	0.54	-0.94
CM	SHRO1	35.394	-82.774	0.065	0.019	1.747	2.977	2.323	2.394	0.66	2.70
CM	SIAN1	34.091	-110.942	-0.103	0.072	5.373	3.407	4.698	4.597	0.99	-2.25
CM	SIME1	55.326	-160.506	-0.029	0.161	4.472	3.930	4.197	4.172	0.56	-0.68
CM	SIPS1	34.343	-87.339	-0.050	0.006	4.754	3.801	4.422	4.277	0.55	-1.17
CM	SNPA1	47.422	-121.426	0.005	0.559	1.253	1.341	1.247	1.297	0.20	0.36
CM	STAR1	45.225	-118.513	-0.055	0.002	3.549	2.495	3.229	3.022	0.75	-1.84
CM	SULA1	45.86	-114	-0.029	0.161	2.219	1.674	2.083	1.947	0.78	-1.47
CM	SWAN1	35.451	-76.207	-0.005	0.805	5.516	5.418	5.374	5.459	0.71	-0.09
CM	SYCA1	35.141	-111.969	0.034	0.653	6.753	7.391	7.386	7.005	1.50	0.48
CM	TALL1	38.434	-96.56	0.083	0.323	6.422	7.999	7.242	7.335	1.34	1.13
CM	THBA1	44.663	-105.287	-0.094	0.031	6.244	4.451	5.260	5.159	0.88	-1.83
CM	THRO1	46.895	-103.378	-0.035	0.218	6.155	5.493	5.795	5.824	0.64	-0.60
CM	THSI1	44.291	-122.043	0.066	0.008	2.138	3.384	3.170	2.761	1.55	2.38
CM	TONT1	33.655	-111.107	-0.014	0.746	6.938	6.681	6.599	6.809	1.14	-0.20
CM	TRCR1	62.315	-150.316	0.017	0.063	1.499	1.813	1.847	1.672	0.47	0.99
CM	TRIN1	40.786	-122.805	0.001	1.000	2.499	2.524	2.490	2.510	0.61	0.05
CM	ULBE1	47.582	-108.72	-0.048	0.038	3.983	3.069	3.664	3.526	0.71	-1.36
CM	UPBU1	35.826	-93.203	-0.209	0.027	7.581	3.615	6.146	5.598	1.95	-3.73
CM	VIIS1	18.336	-64.796	0.141	0.099	12.266	14.945	13.509	13.535	1.54	1.04
CM	VILA1	40.969	-95.045	-0.038	0.742	10.069	9.351	9.766	9.653	1.46	-0.39
CM	VOYA2	48.413	-92.829	-0.009	0.475	2.715	2.538	2.638	2.627	0.38	-0.36
CM	WEMI1	37.659	-107.8	-0.031	0.136	2.763	2.176	2.492	2.470	0.53	-1.25
CM	WHIT1	33.469	-105.535	-0.010	0.910	5.909	5.710	5.918	5.799	2.29	-0.18
CM	WHPA1	46.624	-121.388	-0.004	0.516	1.349	1.280	1.371	1.315	0.49	-0.27
CM	WHPE1	36.585	-105.452	-0.031	0.306	2.317	1.733	2.126	1.994	0.54	-1.54
CM	WHRI1	39.154	-106.821	-0.050	0.000	2.242	1.294	1.799	1.768	0.39	-2.82
CM	WICA1	43.558	-103.484	-0.024	0.151	3.580	3.118	3.410	3.361	0.54	-0.72
CM	WIMO1	34.732	-98.713	0.029	0.421	7.066	7.618	7.876	7.357	1.32	0.40
CM	YELL2	44.565	-110.4	-0.010	0.475	1.948	1.749	1.875	1.849	0.32	-0.57
CM	YOSE1	37.713	-119.706	0.062	0.009	3.517	4.696	4.080	4.106	0.69	1.51
CM	ZICA1	37.198	-113.151	-0.038	0.365	5.286	4.566	4.975	4.869	0.87	-0.78
PM10	ACAD1	44.377	-68.261	-0.112	0.000	7.788	5.664	6.605	6.726	0.81	-1.66
PM10	AGTI1	33.464	-116.971	-0.311	0.000	16.651	10.737	14.109	13.538	2.32	-2.30
PM10	BADL1	43.743	-101.941	-0.134	0.004	9.347	6.795	8.301	8.071	1.13	-1.66
PM10	BALD1	34.058	-109.441	-0.114	0.011	6.632	4.463	5.752	5.490	0.98	-2.08

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PM10	BAND1	35.78	-106.266	-0.049	0.173	6.640	5.705	6.400	6.172	1.04	-0.80
PM10	BIBE1	29.303	-103.178	-0.136	0.153	12.520	9.927	12.156	11.223	2.56	-1.22
PM10	BLIS1	38.976	-120.103	0.041	0.151	4.962	5.732	5.347	5.327	0.77	0.76
PM10	BOAP1	33.869	-106.852	-0.082	0.270	9.258	7.709	9.657	8.484	2.45	-0.96
PM10	BOND1	40.052	-88.373	-0.286	0.000	18.705	13.271	15.642	15.845	2.08	-1.81
PM10	BOWA1	47.947	-91.495	-0.117	0.000	7.258	5.029	6.268	6.143	0.82	-1.91
PM10	BRCA1	37.618	-112.174	-0.064	0.060	5.785	4.567	5.307	5.176	0.81	-1.24
PM10	BRID1	42.975	-109.758	-0.033	0.364	4.385	3.757	4.162	4.071	0.67	-0.81
PM10	BRIG1	39.465	-74.449	-0.313	0.023	18.798	12.844	16.844	15.821	3.89	-1.98
PM10	BRMA1	44.107	-70.729	-0.205	0.000	8.843	4.945	6.972	7.202	1.09	-2.85
PM10	CABA1	43.833	-70.064	-0.174	0.000	10.588	7.289	8.666	8.852	1.28	-1.96
PM10	CABI1	47.955	-115.671	-0.034	0.600	5.580	4.926	5.546	5.236	1.07	-0.66
PM10	CACO1	41.976	-70.024	-0.211	0.000	13.025	9.016	10.824	10.915	1.44	-1.93
PM10	CACR1	34.454	-94.143	-0.260	0.000	15.516	10.573	12.972	12.915	1.79	-2.01
PM10	CANY1	38.459	-109.821	-0.079	0.092	7.075	5.582	6.323	6.328	1.06	-1.24
PM10	CAPI1	38.302	-111.293	-0.034	0.310	6.020	5.378	5.969	5.682	0.89	-0.60
PM10	CEBL1	38.77	-99.763	-0.007	0.934	13.115	12.981	13.592	13.037	1.86	-0.05
PM10	CHAS1	28.748	-82.555	-0.196	0.000	14.352	10.619	13.022	12.486	1.65	-1.57
PM10	CHIR1	32.009	-109.389	-0.032	0.650	10.414	9.808	9.549	10.111	1.73	-0.32
PM10	COHU1	34.785	-84.627	-0.287	0.000	13.518	8.073	10.898	10.509	2.00	-2.73
PM10	CORI1	45.664	-121.001	0.214	0.080	12.405	16.478	15.117	14.441	3.30	1.48
PM10	CRLA1	42.896	-122.136	-0.032	0.604	4.066	3.451	4.442	3.758	2.04	-0.86
PM10	CRMO1	43.46	-113.555	-0.043	0.552	6.446	5.622	6.215	6.012	1.32	-0.72
PM10	DENA1	63.723	-148.967	-0.025	0.516	2.920	2.442	2.957	2.681	0.83	-0.94
PM10	DOME1	35.728	-118.138	0.116	0.221	13.802	16.005	15.099	14.961	2.15	0.78
PM10	DOSO1	39.105	-79.426	-0.365	0.000	13.195	6.251	9.701	9.723	2.26	-3.76
PM10	EGBE1	44.231	-79.783	-0.174	0.033	12.842	9.541	10.362	10.670	1.22	-1.63
PM10	EVER1	25.391	-80.681	-0.036	0.600	13.089	12.413	13.159	12.733	1.45	-0.28
PM10	FLAT1	47.773	-114.269	-0.002	1.000	5.147	5.101	5.624	5.121	1.12	-0.05
PM10	FOPE1	48.308	-105.102	0.051	0.621	7.872	8.843	8.528	8.434	1.06	0.61
PM10	FRRE1	39.706	-79.012	-0.446	0.000	16.133	7.655	10.859	11.002	2.12	-4.06
PM10	GAMO1	46.826	-111.711	-0.013	0.600	3.908	3.653	4.042	3.774	0.91	-0.36
PM10	GICL1	33.22	-108.235	-0.065	0.243	6.940	5.709	6.554	6.325	1.42	-1.02
PM10	GLAC1	48.511	-113.997	-0.148	0.080	10.354	7.542	9.528	8.948	2.39	-1.65
PM10	GRBA1	39.005	-114.216	-0.005	0.846	5.430	5.326	5.472	5.378	0.80	-0.10
PM10	GRCA2	36.066	-112.154	-0.098	0.005	6.135	4.282	5.332	5.306	0.82	-1.84

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PM10	GRGU1	44.308	-71.218	-0.157	0.000	7.479	4.492	6.288	5.907	1.03	-2.66
PM10	GRR11	43.937	-91.405	-0.338	0.000	16.194	9.781	12.208	12.481	1.89	-2.70
PM10	GRSA1	37.725	-105.519	-0.181	0.003	8.655	5.210	7.203	6.933	1.83	-2.62
PM10	GRSM1	35.633	-83.942	-0.409	0.000	15.453	7.688	11.921	11.570	2.67	-3.53
PM10	GUMO1	31.833	-104.809	-0.171	0.243	16.316	13.058	14.793	14.687	3.90	-1.17
PM10	HAVO1	19.431	-155.258	0.013	0.600	5.550	5.791	5.569	5.677	1.31	0.22
PM10	HECA1	44.97	-116.844	-0.040	0.506	6.863	6.105	6.542	6.464	0.95	-0.62
PM10	HEGL1	36.614	-92.922	-0.242	0.000	15.584	10.979	12.987	13.160	1.75	-1.84
PM10	HOOV1	38.088	-119.177	-0.024	0.472	5.115	4.657	5.150	4.862	0.86	-0.50
PM10	IKBA1	34.34	-111.683	-0.101	0.032	9.556	7.633	8.976	8.595	1.55	-1.18
PM10	ISLE1	47.46	-88.149	-0.183	0.000	8.513	5.034	6.884	6.774	1.14	-2.70
PM10	JARB1	41.893	-115.426	-0.001	1.000	6.710	6.696	6.800	6.703	1.09	-0.01
PM10	JARI1	37.627	-79.512	-0.471	0.000	17.035	8.095	12.013	12.330	2.70	-3.82
PM10	JOSH1	34.07	-116.389	-0.165	0.027	13.183	10.053	11.355	11.618	1.59	-1.42
PM10	KAIS1	37.221	-119.155	0.049	0.426	6.709	7.644	7.481	7.226	1.22	0.68
PM10	KALM1	42.552	-124.059	-0.038	0.330	5.861	5.140	5.813	5.501	1.19	-0.69
PM10	LABE1	41.712	-121.507	0.012	0.746	5.139	5.367	5.734	5.253	1.78	0.23
PM10	LASU2	40.693	-92.006	-0.034	0.729	15.494	14.857	15.544	15.092	1.88	-0.22
PM10	LAVO1	40.54	-121.577	0.062	0.119	4.497	5.675	5.651	5.086	1.62	1.22
PM10	LIGO1	35.972	-81.933	-0.377	0.000	14.216	7.045	10.618	10.442	2.57	-3.61
PM10	LOST1	48.642	-102.402	-0.001	1.000	10.849	10.827	11.077	10.838	1.32	-0.01
PM10	MACA1	37.132	-86.148	-0.376	0.000	16.180	9.032	12.814	12.606	2.42	-2.98
PM10	MAVI1	41.331	-70.785	0.134	0.510	11.061	13.606	13.969	12.534	3.46	1.07
PM10	MEAD1	36.019	-114.068	-0.096	0.187	9.911	8.093	8.811	8.858	1.38	-1.08
PM10	MELA1	48.487	-104.476	0.016	0.795	9.713	10.026	9.765	9.869	1.05	0.17
PM10	MEVE1	37.198	-108.491	-0.125	0.032	7.227	4.860	6.510	6.044	2.22	-2.06
PM10	MING1	36.972	-90.143	-0.308	0.000	20.453	14.595	17.539	17.370	2.88	-1.78
PM10	MOHO1	45.289	-121.784	-0.012	0.795	3.844	3.609	3.984	3.727	1.05	-0.33
PM10	MOMO1	41.821	-73.297	-0.271	0.000	11.082	5.931	8.144	8.100	1.64	-3.35
PM10	MONT1	47.122	-113.154	-0.026	0.697	6.265	5.765	6.584	6.015	2.51	-0.44
PM10	MOOS1	45.126	-67.266	-0.159	0.000	7.425	4.397	5.964	5.911	1.09	-2.70
PM10	MORA1	46.758	-122.124	-0.078	0.038	6.010	4.534	5.252	5.272	0.76	-1.47
PM10	MOZI1	40.538	-106.677	-0.097	0.009	5.227	3.389	4.549	4.308	0.98	-2.25
PM10	NEBR1	41.889	-100.339	-0.079	0.099	9.998	8.492	9.292	9.126	1.21	-0.87
PM10	NOAB1	44.745	-109.382	-0.100	0.002	5.323	3.415	4.817	4.419	1.07	-2.27
PM10	NOCA1	48.732	-121.065	-0.037	0.243	3.826	3.116	3.877	3.471	1.24	-1.08

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
PM10	NOCH1	45.65	-106.557	-0.032	0.510	6.398	5.794	6.351	6.048	1.19	-0.52
PM10	OKEF1	30.74	-82.128	-0.178	0.001	14.156	10.774	12.831	12.465	1.95	-1.43
PM10	OLYM1	48.007	-122.973	-0.074	0.063	4.907	3.505	4.220	4.132	0.63	-1.79
PM10	ORPI1	31.951	-112.802	-0.013	0.869	12.827	12.579	12.395	12.683	1.66	-0.10
PM10	PASA1	48.388	-119.927	0.027	0.807	3.877	4.394	4.526	4.149	1.50	0.66
PM10	PEFO1	35.078	-109.769	-0.069	0.194	8.670	7.368	8.246	8.019	1.75	-0.85
PM10	PENO1	44.948	-68.648	-0.119	0.298	10.669	8.400	9.069	9.176	1.21	-1.30
PM10	PINN1	36.483	-121.157	0.003	0.795	9.914	9.975	9.972	9.945	1.00	0.03
PM10	PMRF1	44.528	-72.869	-0.210	0.000	8.674	4.679	6.772	6.572	1.30	-3.20
PM10	PORE1	38.122	-122.909	-0.081	0.270	14.029	12.489	13.713	13.259	1.89	-0.61
PM10	PRIS1	46.696	-68.033	-0.188	0.000	11.717	8.142	10.199	9.835	1.53	-1.91
PM10	QUCI1	39.943	-81.338	-0.369	0.000	18.300	11.288	14.077	14.610	2.48	-2.53
PM10	QURE1	42.299	-72.335	-0.298	0.000	10.691	5.032	8.402	8.308	1.39	-3.59
PM10	QUVA1	33.294	-111.286	-0.198	0.299	16.425	12.667	14.802	14.843	2.23	-1.33
PM10	RAFA1	34.734	-120.007	-0.071	0.243	12.302	10.951	11.681	11.627	1.24	-0.61
PM10	REDW1	41.561	-124.084	0.040	0.399	6.845	7.611	7.634	7.228	1.29	0.56
PM10	ROMA1	32.941	-79.657	-0.242	0.002	15.928	11.328	13.615	13.628	1.95	-1.78
PM10	ROMO1	40.278	-105.546	-0.126	0.014	7.088	4.694	5.975	5.891	1.16	-2.14
PM10	SACR1	33.46	-104.404	0.073	0.604	16.482	17.869	17.634	17.175	3.88	0.42
PM10	SAGA1	34.297	-118.028	-0.083	0.242	9.959	8.379	9.414	9.086	2.01	-0.92
PM10	SAGO1	34.194	-116.913	-0.215	0.002	12.195	8.108	10.222	10.152	1.73	-2.12
PM10	SAGU1	32.175	-110.737	-0.095	0.221	13.395	11.595	12.155	12.447	1.49	-0.76
PM10	SAMA1	30.093	-84.161	-0.185	0.000	14.161	10.644	12.165	12.310	1.50	-1.50
PM10	SAPE1	36.014	-106.845	-0.036	0.278	4.913	4.237	4.783	4.557	0.95	-0.78
PM10	SAWE1	32.249	-111.218	-0.143	0.344	18.165	15.447	16.439	16.663	2.42	-0.86
PM10	SAWT1	44.171	-114.927	-0.010	0.753	4.940	4.754	5.193	4.842	1.40	-0.20
PM10	SENE1	46.289	-85.95	-0.135	0.000	7.529	4.964	6.325	6.247	1.01	-2.16
PM10	SEQU1	36.489	-118.829	-0.036	0.650	17.608	16.915	17.020	17.262	1.95	-0.21
PM10	SHEN1	38.523	-78.435	-0.362	0.000	14.151	7.278	10.472	10.714	2.25	-3.38
PM10	SHMI1	37.304	-107.484	-0.077	0.216	8.716	7.260	7.832	7.796	0.96	-0.98
PM10	SHRO1	35.394	-82.774	-0.287	0.000	11.466	6.013	8.398	8.596	1.97	-3.34
PM10	SIAN1	34.091	-110.942	-0.190	0.038	9.810	6.200	8.677	8.385	1.68	-2.27
PM10	SIME1	55.326	-160.506	-0.042	0.120	7.383	6.585	6.954	6.942	0.75	-0.60
PM10	SIPS1	34.343	-87.339	-0.401	0.000	16.972	9.353	13.435	13.163	2.74	-3.05
PM10	SNPA1	47.422	-121.426	-0.046	0.194	4.459	3.587	4.029	4.023	0.75	-1.14
PM10	STAR1	45.225	-118.513	-0.133	0.027	7.557	5.033	6.812	6.295	1.57	-2.11

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
PM10	SULA1	45.86	-114	-0.092	0.151	5.514	3.764	5.303	4.593	2.44	-2.01
PM10	SWAN1	35.451	-76.207	-0.200	0.000	14.276	10.476	12.039	12.176	1.57	-1.64
PM10	SYCA1	35.141	-111.969	-0.100	0.589	13.231	11.326	12.841	12.479	2.22	-0.80
PM10	TALL1	38.434	-96.56	-0.086	0.118	14.879	13.245	14.413	13.933	1.67	-0.62
PM10	THBA1	44.663	-105.287	-0.111	0.177	9.921	7.809	8.868	8.643	1.40	-1.29
PM10	THRO1	46.895	-103.378	-0.061	0.080	10.439	9.274	9.798	9.857	0.87	-0.62
PM10	THSI1	44.291	-122.043	0.086	0.038	4.707	6.346	6.340	5.526	2.34	1.56
PM10	TONT1	33.655	-111.107	-0.053	0.436	11.158	10.159	10.900	10.658	1.71	-0.49
PM10	TRCR1	62.315	-150.316	-0.008	0.850	3.333	3.185	3.501	3.251	0.66	-0.24
PM10	TRIN1	40.786	-122.805	-0.047	0.719	6.005	5.119	6.602	5.608	2.92	-0.83
PM10	ULBE1	47.582	-108.72	-0.052	0.243	7.295	6.303	6.958	6.799	1.08	-0.77
PM10	UPBU1	35.826	-93.203	-0.430	0.000	18.413	10.247	13.743	14.330	3.00	-3.00
PM10	VIIS1	18.336	-64.796	0.144	0.284	18.821	21.564	19.877	20.121	1.98	0.72
PM10	VILA1	40.969	-95.045	-0.275	0.008	19.732	14.498	17.291	16.702	2.10	-1.65
PM10	VOYA2	48.413	-92.829	-0.066	0.002	7.076	5.826	6.529	6.451	0.62	-1.02
PM10	WEMI1	37.659	-107.8	-0.055	0.105	5.443	4.405	4.937	4.924	0.84	-1.11
PM10	WHIT1	33.469	-105.535	-0.042	0.622	9.338	8.539	9.537	8.897	2.85	-0.47
PM10	WHPA1	46.624	-121.388	-0.017	0.650	3.222	2.900	3.232	3.061	0.84	-0.55
PM10	WHPE1	36.585	-105.452	-0.064	0.011	4.856	3.635	4.463	4.181	0.82	-1.54
PM10	WHRI1	39.154	-106.821	-0.099	0.002	4.833	2.955	3.891	3.894	0.73	-2.54
PM10	WICA1	43.558	-103.484	-0.045	0.132	7.070	6.220	6.783	6.667	0.86	-0.67
PM10	WIMO1	34.732	-98.713	-0.134	0.033	15.321	12.777	14.634	13.982	1.73	-0.96
PM10	YELL2	44.565	-110.4	-0.022	0.364	4.561	4.143	4.422	4.352	0.66	-0.51
PM10	YOSE1	37.713	-119.706	0.038	0.364	7.932	8.663	9.002	8.297	2.33	0.46
PM10	ZICA1	37.198	-113.151	-0.088	0.118	9.089	7.418	8.071	8.122	1.20	-1.08

**Table 6.1.2. IMPROVE long-term (1990–2019) annual mean mass trends for sites that met completeness criteria (see Chapter 6). Species include sulfate ion (SO<sub>4</sub>), nitrate ion (NO<sub>3</sub>), organic carbon (OC), elemental carbon (EC), fine dust (FD), gravimetric PM<sub>2.5</sub> mass (FM), coarse mass (CM), and gravimetric PM<sub>10</sub> mass (PM<sub>10</sub>). The slope is derived from a linear trend regression, beginning and end year concentrations are based on the linear fit for year 2000 and 2019, the mean and median annual mean concentrations over the 2000-2019 period, standard deviation in the mean over the 2000-2019 period, and trend is the slope divided by the median concentration times 100.**

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	ACAD1	44.377	-68.261	-0.081	0.000	2.800	0.465	1.550	1.633	0.728	-4.931
SO4	BADL1	43.743	-101.941	-0.024	0.000	1.246	0.545	0.901	0.896	0.235	-2.699
SO4	BAND1	35.78	-106.266	-0.017	0.000	0.905	0.426	0.646	0.666	0.159	-2.481
SO4	BIBE1	29.303	-103.178	-0.023	0.000	2.055	1.395	1.722	1.725	0.302	-1.318
SO4	BLIS1	38.976	-120.103	-0.009	0.000	0.584	0.308	0.447	0.437	0.090	-2.174
SO4	BOWA1	47.947	-91.495	-0.043	0.000	1.715	0.482	1.022	1.035	0.373	-4.111
SO4	BRCA1	37.618	-112.174	-0.014	0.000	0.716	0.320	0.516	0.518	0.127	-2.634
SO4	BRID1	42.975	-109.758	-0.010	0.000	0.582	0.288	0.412	0.435	0.097	-2.332
SO4	BRIG1	39.465	-74.449	-0.165	0.000	6.034	1.256	3.053	3.480	1.388	-4.734
SO4	CANY1	38.459	-109.821	-0.020	0.000	0.852	0.273	0.596	0.562	0.181	-3.547
SO4	CHAS1	28.748	-82.555	-0.125	0.000	4.907	1.286	2.558	2.909	1.001	-4.293
SO4	CHIR1	32.009	-109.389	-0.023	0.000	1.206	0.533	0.874	0.870	0.228	-2.666
SO4	CORI1	45.664	-121.001	-0.027	0.000	1.145	0.365	0.736	0.701	0.219	-3.838
SO4	CRLA1	42.896	-122.136	-0.005	0.000	0.369	0.225	0.294	0.294	0.055	-1.688
SO4	CRMO1	43.46	-113.555	-0.009	0.000	0.548	0.277	0.373	0.389	0.077	-2.404
SO4	DENA1	63.723	-148.967	-0.004	0.028	0.379	0.271	0.322	0.325	0.088	-1.140
SO4	DOSO1	39.105	-79.426	-0.197	0.000	6.977	1.257	3.463	3.920	1.678	-5.032
SO4	EVER1	25.391	-80.681	-0.058	0.000	2.736	1.067	1.836	1.700	0.512	-3.384
SO4	GICL1	33.22	-108.235	-0.024	0.000	1.046	0.352	0.677	0.651	0.192	-3.679
SO4	GLAC1	48.511	-113.997	-0.016	0.000	0.776	0.301	0.530	0.539	0.153	-3.043
SO4	GRBA1	39.005	-114.216	-0.008	0.000	0.551	0.321	0.417	0.424	0.075	-1.866
SO4	GRCA2	36.066	-112.154	-0.016	0.000	0.802	0.344	0.576	0.565	0.142	-2.794
SO4	GRSA1	37.725	-105.519	-0.013	0.000	0.706	0.329	0.507	0.518	0.124	-2.507
SO4	GRSM1	35.633	-83.942	-0.175	0.000	6.805	1.725	3.495	4.265	1.633	-4.107
SO4	GUMO1	31.833	-104.809	-0.020	0.000	1.431	0.865	1.117	1.148	0.233	-1.699
SO4	HAVO1	19.431	-155.258	0.001	0.952	1.710	1.733	1.867	1.725	0.662	0.046
SO4	JARB1	41.893	-115.426	-0.005	0.000	0.429	0.283	0.350	0.356	0.057	-1.417
SO4	LAVO1	40.54	-121.577	-0.005	0.003	0.457	0.317	0.375	0.385	0.064	-1.261
SO4	LYBR1	43.148	-73.127	-0.076	0.000	3.050	0.843	2.004	2.136	0.540	-3.562
SO4	MACA1	37.132	-86.148	-0.195	0.000	7.320	1.673	3.715	4.302	1.605	-4.526
SO4	MEVE1	37.198	-108.491	-0.017	0.000	0.839	0.335	0.576	0.587	0.163	-2.957



Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	MOOS1	45.126	-67.266	-0.067	0.000	2.410	0.454	1.243	1.264	0.516	-5.338
SO4	MORA1	46.758	-122.124	-0.028	0.000	0.971	0.170	0.637	0.571	0.272	-4.844
SO4	MOZI1	40.538	-106.677	-0.014	0.000	0.684	0.283	0.440	0.449	0.117	-3.085
SO4	OKEF1	30.74	-82.128	-0.129	0.000	5.033	1.285	2.745	3.030	1.078	-4.265
SO4	PEFO1	35.078	-109.769	-0.018	0.000	0.977	0.446	0.680	0.711	0.168	-2.574
SO4	PINN1	36.483	-121.157	-0.020	0.000	1.152	0.562	0.830	0.857	0.193	-2.376
SO4	PORE1	38.122	-122.909	-0.022	0.000	1.404	0.756	0.990	1.080	0.223	-2.067
SO4	REDW1	41.561	-124.084	-0.013	0.000	0.757	0.384	0.559	0.570	0.125	-2.257
SO4	ROMA1	32.941	-79.657	-0.148	0.000	5.813	1.514	2.834	3.293	1.167	-4.501
SO4	ROMO1	40.278	-105.546	-0.015	0.000	0.767	0.345	0.518	0.549	0.133	-2.651
SO4	SAGO1	34.194	-116.913	-0.023	0.000	1.230	0.550	0.845	0.867	0.223	-2.706
SO4	SAGU1	32.175	-110.737	-0.025	0.000	1.322	0.587	0.877	0.853	0.219	-2.969
SO4	SAWT1	44.171	-114.927	-0.004	0.004	0.388	0.261	0.301	0.313	0.051	-1.394
SO4	SEQU1	36.489	-118.829	-0.024	0.000	1.574	0.876	1.160	1.201	0.237	-2.005
SO4	SHEN1	38.523	-78.435	-0.176	0.000	6.642	1.529	3.447	4.085	1.637	-4.315
SO4	SHRO1	35.394	-82.774	-0.172	0.000	5.700	0.704	2.428	2.685	1.308	-6.415
SO4	SIPS1	34.343	-87.339	-0.198	0.000	7.009	1.280	3.467	3.848	1.689	-5.134
SO4	SNPA1	47.422	-121.426	-0.022	0.000	0.851	0.224	0.500	0.484	0.195	-4.467
SO4	SULA1	45.86	-114	-0.008	0.000	0.465	0.220	0.314	0.321	0.068	-2.620
SO4	THSI1	44.291	-122.043	-0.011	0.000	0.549	0.238	0.376	0.372	0.089	-2.881
SO4	TONT1	33.655	-111.107	-0.021	0.000	1.209	0.597	0.878	0.892	0.193	-2.365
SO4	UPBU1	35.826	-93.203	-0.107	0.000	4.302	1.191	2.448	2.639	0.922	-4.065
SO4	VIIS1	18.336	-64.796	-0.005	0.432	1.063	0.924	0.986	0.982	0.134	-0.486
SO4	WEMI1	37.659	-107.8	-0.013	0.000	0.653	0.268	0.473	0.461	0.125	-2.886
SO4	WHRI1	39.154	-106.821	-0.013	0.000	0.603	0.236	0.382	0.387	0.096	-3.265
SO4	YELL2	44.565	-110.4	-0.008	0.000	0.515	0.278	0.383	0.397	0.083	-2.065
SO4	YOSE1	37.713	-119.706	-0.009	0.000	0.759	0.485	0.619	0.622	0.106	-1.519
NO3	ACAD1	44.377	-68.261	-0.007	0.000	0.347	0.158	0.251	0.236	0.068	-2.758
NO3	BADL1	43.743	-101.941	-0.005	0.002	0.370	0.232	0.319	0.289	0.078	-1.654
NO3	BAND1	35.78	-106.266	-0.002	0.008	0.197	0.141	0.165	0.164	0.033	-1.167
NO3	BIBE1	29.303	-103.178	0.000	0.815	0.181	0.177	0.185	0.178	0.027	-0.073
NO3	BLIS1	38.976	-120.103	-0.005	0.000	0.231	0.086	0.165	0.146	0.048	-3.414
NO3	BOWA1	47.947	-91.495	-0.005	0.004	0.509	0.354	0.430	0.412	0.105	-1.296
NO3	BRCA1	37.618	-112.174	-0.002	0.000	0.206	0.136	0.172	0.165	0.038	-1.467
NO3	BRID1	42.975	-109.758	-0.001	0.036	0.126	0.100	0.109	0.111	0.021	-0.829
NO3	BRIG1	39.465	-74.449	-0.014	0.000	1.073	0.664	0.819	0.819	0.139	-1.719

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
NO3	CANY1	38.459	-109.821	-0.003	0.004	0.224	0.138	0.184	0.173	0.046	-1.714
NO3	CHAS1	28.748	-82.555	-0.006	0.000	0.437	0.272	0.348	0.332	0.054	-1.723
NO3	CHIR1	32.009	-109.389	0.000	0.744	0.127	0.133	0.138	0.131	0.026	0.150
NO3	CORI1	45.664	-121.001	-0.005	0.277	0.859	0.700	0.764	0.755	0.197	-0.728
NO3	CRLA1	42.896	-122.136	-0.002	0.007	0.101	0.056	0.085	0.074	0.037	-2.114
NO3	DENA1	63.723	-148.967	0.000	0.028	0.050	0.038	0.048	0.043	0.022	-0.944
NO3	DOSO1	39.105	-79.426	-0.006	0.002	0.501	0.327	0.400	0.393	0.072	-1.526
NO3	GICL1	33.22	-108.235	-0.001	0.035	0.111	0.087	0.100	0.095	0.017	-0.872
NO3	GLAC1	48.511	-113.997	-0.004	0.025	0.282	0.175	0.211	0.219	0.056	-1.689
NO3	GRBA1	39.005	-114.216	-0.003	0.000	0.159	0.080	0.112	0.108	0.023	-2.505
NO3	GRCA2	36.066	-112.154	-0.002	0.000	0.186	0.127	0.150	0.150	0.027	-1.358
NO3	GRSA1	37.725	-105.519	-0.002	0.008	0.173	0.107	0.135	0.134	0.032	-1.696
NO3	GRSM1	35.633	-83.942	-0.004	0.001	0.410	0.300	0.353	0.346	0.077	-1.099
NO3	GUMO1	31.833	-104.809	0.000	0.852	0.229	0.230	0.230	0.230	0.043	0.024
NO3	HAVO1	19.431	-155.258	-0.001	0.227	0.077	0.061	0.066	0.066	0.011	-0.831
NO3	JARB1	41.893	-115.426	-0.001	0.008	0.111	0.079	0.090	0.092	0.017	-1.178
NO3	LAVO1	40.54	-121.577	-0.004	0.001	0.201	0.096	0.137	0.137	0.044	-2.626
NO3	MACA1	37.132	-86.148	-0.023	0.010	1.238	0.584	0.857	0.832	0.204	-2.707
NO3	MEVE1	37.198	-108.491	-0.001	0.262	0.143	0.116	0.133	0.127	0.039	-0.708
NO3	MORA1	46.758	-122.124	-0.004	0.000	0.182	0.072	0.131	0.117	0.039	-3.252
NO3	OKEF1	30.74	-82.128	-0.006	0.000	0.404	0.230	0.314	0.296	0.058	-2.034
NO3	PEFO1	35.078	-109.769	-0.002	0.008	0.194	0.140	0.171	0.162	0.039	-1.157
NO3	PINN1	36.483	-121.157	-0.022	0.000	0.980	0.338	0.649	0.604	0.223	-3.664
NO3	PORE1	38.122	-122.909	-0.022	0.000	0.979	0.346	0.713	0.608	0.274	-3.595
NO3	REDW1	41.561	-124.084	-0.006	0.000	0.287	0.112	0.195	0.184	0.062	-3.276
NO3	ROMO1	40.278	-105.546	-0.003	0.002	0.275	0.178	0.231	0.216	0.062	-1.548
NO3	SAGO1	34.194	-116.913	-0.096	0.000	2.991	0.204	1.571	1.309	0.888	-7.342
NO3	SAGU1	32.175	-110.737	-0.006	0.000	0.410	0.248	0.304	0.307	0.058	-1.827
NO3	SEQU1	36.489	-118.829	-0.045	0.000	2.158	0.842	1.297	1.341	0.450	-3.384
NO3	SHEN1	38.523	-78.435	-0.008	0.002	0.681	0.463	0.578	0.553	0.115	-1.361
NO3	SIPS1	34.343	-87.339	-0.016	0.000	0.865	0.400	0.583	0.576	0.149	-2.777
NO3	SNPA1	47.422	-121.426	-0.007	0.000	0.365	0.169	0.235	0.236	0.065	-2.860
NO3	THSI1	44.291	-122.043	-0.002	0.000	0.118	0.051	0.082	0.074	0.023	-3.079
NO3	TONT1	33.655	-111.107	-0.003	0.002	0.282	0.186	0.238	0.224	0.049	-1.486
NO3	UPBU1	35.826	-93.203	-0.020	0.000	1.138	0.555	0.729	0.776	0.183	-2.591
NO3	WEMI1	37.659	-107.8	-0.001	0.076	0.098	0.080	0.088	0.087	0.018	-0.678

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
NO3	YELL2	44.565	-110.4	-0.002	0.022	0.168	0.122	0.143	0.141	0.031	-1.124
NO3	YOSE1	37.713	-119.706	-0.007	0.000	0.390	0.192	0.307	0.274	0.100	-2.499
OC	ACAD1	44.377	-68.261	-0.018	0.000	1.152	0.631	0.916	0.892	0.206	-2.016
OC	BADL1	43.743	-101.941	-0.005	0.218	0.846	0.709	0.826	0.778	0.180	-0.607
OC	BAND1	35.78	-106.266	-0.011	0.000	0.897	0.566	0.770	0.732	0.202	-1.561
OC	BIBE1	29.303	-103.178	-0.012	0.000	0.904	0.561	0.759	0.732	0.193	-1.615
OC	BLIS1	38.976	-120.103	0.000	0.982	0.996	0.982	1.042	0.989	0.265	-0.048
OC	BOWA1	47.947	-91.495	-0.010	0.010	1.029	0.751	0.933	0.871	0.298	-1.102
OC	BRCA1	37.618	-112.174	-0.005	0.277	0.661	0.527	0.657	0.591	0.243	-0.781
OC	BRID1	42.975	-109.758	0.001	0.735	0.589	0.605	0.650	0.597	0.202	0.091
OC	BRIG1	39.465	-74.449	-0.030	0.000	1.925	1.052	1.492	1.474	0.299	-2.043
OC	CANY1	38.459	-109.821	-0.005	0.044	0.601	0.449	0.522	0.525	0.099	-0.999
OC	CHAS1	28.748	-82.555	-0.024	0.003	2.105	1.417	1.739	1.725	0.330	-1.376
OC	CHIR1	32.009	-109.389	-0.009	0.001	0.623	0.369	0.549	0.496	0.143	-1.771
OC	CORI1	45.664	-121.001	-0.028	0.000	1.822	1.018	1.367	1.365	0.286	-2.030
OC	CRLA1	42.896	-122.136	0.002	0.813	0.709	0.766	1.086	0.739	0.907	0.264
OC	DENA1	63.723	-148.967	-0.003	0.309	0.418	0.326	0.603	0.372	0.653	-0.859
OC	DOSO1	39.105	-79.426	-0.042	0.000	2.011	0.797	1.373	1.362	0.370	-3.074
OC	GICL1	33.22	-108.235	-0.017	0.045	1.124	0.645	0.960	0.852	0.477	-1.939
OC	GLAC1	48.511	-113.997	-0.026	0.048	2.121	1.357	1.993	1.739	1.387	-1.514
OC	GRBA1	39.005	-114.216	-0.009	0.006	0.755	0.495	0.607	0.612	0.127	-1.465
OC	GRCA2	36.066	-112.154	-0.005	0.091	0.630	0.484	0.668	0.554	0.545	-0.908
OC	GRSA1	37.725	-105.519	-0.001	0.630	0.659	0.632	0.663	0.646	0.095	-0.146
OC	GRSM1	35.633	-83.942	-0.037	0.000	2.258	1.181	1.697	1.719	0.427	-2.159
OC	GUMO1	31.833	-104.809	-0.006	0.006	0.766	0.589	0.662	0.678	0.106	-0.901
OC	HAVO1	19.431	-155.258	-0.001	0.629	0.158	0.135	0.165	0.143	0.113	-0.548
OC	JARB1	41.893	-115.426	-0.002	0.653	0.681	0.621	0.691	0.650	0.201	-0.322
OC	LAVO1	40.54	-121.577	0.003	0.762	0.873	0.946	1.363	0.910	1.017	0.279
OC	LYBR1	43.148	-73.127	-0.017	0.001	1.118	0.638	0.927	0.919	0.195	-1.800
OC	MACA1	37.132	-86.148	-0.035	0.000	2.375	1.355	1.768	1.830	0.337	-1.921
OC	MEVE1	37.198	-108.491	-0.006	0.007	0.620	0.443	0.571	0.531	0.160	-1.146
OC	MOOS1	45.126	-67.266	-0.026	0.000	1.318	0.568	0.930	0.879	0.201	-2.943
OC	MORA1	46.758	-122.124	-0.040	0.000	1.726	0.561	1.176	1.143	0.394	-3.514
OC	MOZI1	40.538	-106.677	-0.004	0.304	0.585	0.462	0.557	0.513	0.160	-0.826
OC	OKEF1	30.74	-82.128	-0.024	0.006	2.285	1.598	2.042	1.918	0.632	-1.235
OC	PEFO1	35.078	-109.769	-0.010	0.001	0.857	0.571	0.728	0.714	0.236	-1.381

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{yr}^{-1}$ )	Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
OC	PINN1	36.483	-121.157	-0.022	0.000	1.449	0.825	1.107	1.137	0.239	-1.891
OC	PORE1	38.122	-122.909	-0.022	0.000	0.970	0.347	0.726	0.659	0.277	-3.264
OC	REDW1	41.561	-124.084	-0.018	0.004	0.975	0.465	0.807	0.720	0.434	-2.445
OC	ROMA1	32.941	-79.657	-0.030	0.000	2.197	1.316	1.646	1.681	0.273	-1.806
OC	ROMO1	40.278	-105.546	-0.005	0.078	0.743	0.584	0.669	0.661	0.134	-0.828
OC	SAGO1	34.194	-116.913	-0.032	0.000	1.592	0.660	1.093	1.094	0.303	-2.937
OC	SAGU1	32.175	-110.737	-0.010	0.002	0.844	0.552	0.668	0.658	0.142	-1.531
OC	SEQU1	36.489	-118.829	-0.045	0.014	2.773	1.454	2.185	2.022	0.602	-2.248
OC	SHEN1	38.523	-78.435	-0.031	0.000	1.718	0.807	1.306	1.262	0.302	-2.487
OC	SHRO1	35.394	-82.774	-0.026	0.002	1.626	0.872	1.153	1.171	0.293	-2.221
OC	SIPS1	34.343	-87.339	-0.041	0.000	2.729	1.543	2.039	2.075	0.416	-1.973
OC	SNPA1	47.422	-121.426	-0.017	0.066	1.127	0.643	0.878	0.835	0.284	-2.001
OC	THSI1	44.291	-122.043	-0.008	0.321	1.110	0.873	1.065	0.976	0.611	-0.838
OC	TONT1	33.655	-111.107	-0.015	0.000	1.031	0.606	0.804	0.811	0.181	-1.807
OC	UPBU1	35.826	-93.203	-0.028	0.000	2.028	1.220	1.604	1.596	0.283	-1.746
OC	WEMI1	37.659	-107.8	-0.003	0.232	0.572	0.491	0.571	0.532	0.144	-0.523
OC	YELL2	44.565	-110.4	-0.004	0.422	0.945	0.839	0.882	0.892	0.226	-0.411
OC	YOSE1	37.713	-119.706	-0.008	0.443	1.499	1.280	1.776	1.390	1.214	-0.543
EC	ACAD1	44.377	-68.261	-0.009	0.000	0.332	0.074	0.200	0.203	0.087	-4.386
EC	BADL1	43.743	-101.941	-0.002	0.000	0.155	0.090	0.123	0.123	0.032	-1.852
EC	BAND1	35.78	-106.266	-0.004	0.000	0.205	0.097	0.144	0.151	0.044	-2.457
EC	BIBE1	29.303	-103.178	-0.003	0.000	0.175	0.098	0.139	0.136	0.035	-1.928
EC	BLIS1	38.976	-120.103	-0.003	0.003	0.208	0.121	0.154	0.162	0.038	-1.865
EC	BOWA1	47.947	-91.495	-0.003	0.000	0.197	0.099	0.139	0.141	0.036	-2.390
EC	BRCA1	37.618	-112.174	-0.002	0.024	0.141	0.077	0.110	0.108	0.042	-2.029
EC	BRID1	42.975	-109.758	-0.001	0.363	0.090	0.075	0.084	0.082	0.027	-0.627
EC	BRIG1	39.465	-74.449	-0.015	0.000	0.632	0.210	0.396	0.414	0.128	-3.514
EC	CANY1	38.459	-109.821	-0.003	0.000	0.135	0.059	0.095	0.097	0.030	-2.690
EC	CHAS1	28.748	-82.555	-0.014	0.000	0.640	0.229	0.448	0.413	0.131	-3.428
EC	CHIR1	32.009	-109.389	-0.003	0.000	0.153	0.073	0.104	0.113	0.031	-2.445
EC	CORI1	45.664	-121.001	-0.011	0.000	0.481	0.166	0.311	0.302	0.090	-3.601
EC	CRLA1	42.896	-122.136	-0.004	0.004	0.215	0.097	0.185	0.152	0.114	-2.700
EC	DENA1	63.723	-148.967	-0.002	0.000	0.097	0.041	0.073	0.069	0.039	-2.777
EC	DOSO1	39.105	-79.426	-0.011	0.000	0.456	0.149	0.289	0.292	0.098	-3.632
EC	GICL1	33.22	-108.235	-0.004	0.006	0.212	0.082	0.159	0.138	0.091	-3.228
EC	GLAC1	48.511	-113.997	-0.008	0.000	0.451	0.234	0.346	0.342	0.149	-2.191

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
EC	GRBA1	39.005	-114.216	-0.005	0.000	0.162	0.031	0.103	0.090	0.042	-5.037
EC	GRCA2	36.066	-112.154	-0.003	0.000	0.144	0.067	0.118	0.104	0.065	-2.564
EC	GRSA1	37.725	-105.519	-0.001	0.000	0.124	0.081	0.101	0.102	0.018	-1.428
EC	GRSM1	35.633	-83.942	-0.011	0.000	0.527	0.223	0.345	0.375	0.110	-2.802
EC	GUMO1	31.833	-104.809	-0.002	0.002	0.148	0.097	0.117	0.122	0.027	-1.424
EC	HAVO1	19.431	-155.258	-0.002	0.000	0.063	0.013	0.035	0.030	0.016	-5.714
EC	JARB1	41.893	-115.426	-0.001	0.078	0.093	0.065	0.084	0.079	0.029	-1.250
EC	LAVO1	40.54	-121.577	-0.001	0.532	0.183	0.143	0.187	0.163	0.094	-0.831
EC	LYBR1	43.148	-73.127	-0.008	0.000	0.315	0.091	0.214	0.222	0.053	-3.473
EC	MACA1	37.132	-86.148	-0.012	0.000	0.606	0.260	0.402	0.421	0.111	-2.832
EC	MEVE1	37.198	-108.491	-0.003	0.000	0.137	0.054	0.101	0.095	0.039	-3.016
EC	MOOS1	45.126	-67.266	-0.009	0.000	0.328	0.059	0.178	0.171	0.073	-5.437
EC	MORA1	46.758	-122.124	-0.011	0.000	0.412	0.086	0.251	0.249	0.104	-4.517
EC	MOZI1	40.538	-106.677	-0.002	0.001	0.128	0.058	0.080	0.087	0.025	-2.781
EC	OKEF1	30.74	-82.128	-0.010	0.000	0.529	0.239	0.370	0.374	0.107	-2.676
EC	PEFO1	35.078	-109.769	-0.006	0.000	0.306	0.130	0.209	0.218	0.067	-2.779
EC	PINN1	36.483	-121.157	-0.010	0.000	0.376	0.092	0.253	0.234	0.092	-4.191
EC	PORE1	38.122	-122.909	-0.005	0.000	0.194	0.042	0.126	0.118	0.070	-4.462
EC	REDW1	41.561	-124.084	-0.003	0.000	0.134	0.033	0.093	0.084	0.048	-4.148
EC	ROMA1	32.941	-79.657	-0.010	0.000	0.500	0.203	0.322	0.326	0.097	-3.151
EC	ROMO1	40.278	-105.546	-0.002	0.000	0.151	0.080	0.114	0.114	0.030	-2.152
EC	SAGO1	34.194	-116.913	-0.011	0.000	0.464	0.138	0.266	0.290	0.109	-3.883
EC	SAGU1	32.175	-110.737	-0.006	0.000	0.265	0.077	0.174	0.145	0.059	-4.478
EC	SEQU1	36.489	-118.829	-0.014	0.000	0.582	0.178	0.350	0.352	0.124	-3.961
EC	SHEN1	38.523	-78.435	-0.009	0.000	0.445	0.195	0.292	0.320	0.084	-2.695
EC	SHRO1	35.394	-82.774	-0.007	0.000	0.291	0.095	0.195	0.173	0.071	-3.922
EC	SIPS1	34.343	-87.339	-0.017	0.000	0.705	0.212	0.447	0.433	0.154	-3.923
EC	SNPA1	47.422	-121.426	-0.008	0.000	0.328	0.101	0.193	0.191	0.066	-4.093
EC	THSI1	44.291	-122.043	-0.003	0.000	0.194	0.097	0.141	0.139	0.043	-2.423
EC	TONT1	33.655	-111.107	-0.006	0.000	0.264	0.088	0.172	0.173	0.057	-3.517
EC	UPBU1	35.826	-93.203	-0.007	0.000	0.388	0.195	0.279	0.285	0.069	-2.333
EC	WEMI1	37.659	-107.8	-0.004	0.000	0.202	0.080	0.126	0.141	0.041	-2.973
EC	YELL2	44.565	-110.4	-0.003	0.000	0.154	0.081	0.114	0.118	0.032	-2.158
EC	YOSE1	37.713	-119.706	-0.004	0.031	0.262	0.157	0.232	0.209	0.104	-1.726
Fine Dust	ACAD1	44.377	-68.261	-0.005	0.000	0.316	0.164	0.222	0.240	0.070	-2.183
Fine Dust	BADL1	43.743	-101.941	-0.003	0.464	0.666	0.586	0.641	0.626	0.132	-0.441

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Fine Dust	BAND1	35.78	-106.266	0.004	0.344	0.630	0.736	0.709	0.683	0.166	0.535
Fine Dust	BIBE1	29.303	-103.178	-0.009	0.232	1.476	1.226	1.399	1.351	0.362	-0.637
Fine Dust	BLIS1	38.976	-120.103	-0.004	0.050	0.567	0.451	0.499	0.505	0.106	-0.790
Fine Dust	BOWA1	47.947	-91.495	-0.009	0.000	0.436	0.186	0.295	0.298	0.091	-2.885
Fine Dust	BRCA1	37.618	-112.174	-0.001	0.682	0.631	0.599	0.634	0.615	0.130	-0.178
Fine Dust	BRID1	42.975	-109.758	-0.004	0.205	0.531	0.424	0.487	0.478	0.107	-0.773
Fine Dust	BRIG1	39.465	-74.449	-0.011	0.000	0.647	0.330	0.455	0.478	0.143	-2.284
Fine Dust	CANY1	38.459	-109.821	-0.003	0.402	0.787	0.696	0.769	0.741	0.205	-0.423
Fine Dust	CHAS1	28.748	-82.555	-0.016	0.004	1.151	0.693	0.950	0.882	0.256	-1.791
Fine Dust	CHIR1	32.009	-109.389	0.007	0.129	0.960	1.176	1.085	1.068	0.262	0.697
Fine Dust	COR11	45.664	-121.001	0.012	0.112	0.754	1.111	1.078	0.963	0.392	1.278
Fine Dust	CRLA1	42.896	-122.136	-0.006	0.008	0.518	0.358	0.411	0.430	0.099	-1.290
Fine Dust	CRMO1	43.46	-113.555	-0.006	0.033	0.702	0.515	0.642	0.602	0.186	-1.067
Fine Dust	DENA1	63.723	-148.967	-0.004	0.000	0.227	0.112	0.185	0.169	0.098	-2.340
Fine Dust	DOSO1	39.105	-79.426	-0.009	0.003	0.589	0.316	0.455	0.443	0.134	-2.119
Fine Dust	EVER1	25.391	-80.681	-0.015	0.075	1.462	1.019	1.284	1.225	0.397	-1.246
Fine Dust	GICL1	33.22	-108.235	0.000	0.982	0.780	0.777	0.795	0.779	0.171	-0.013
Fine Dust	GLAC1	48.511	-113.997	-0.007	0.090	0.760	0.565	0.683	0.663	0.161	-1.013
Fine Dust	GRBA1	39.005	-114.216	0.000	0.950	0.710	0.718	0.721	0.715	0.220	0.037
Fine Dust	GRCA2	36.066	-112.154	0.002	0.626	0.558	0.628	0.648	0.594	0.142	0.407
Fine Dust	GRSA1	37.725	-105.519	-0.001	0.872	1.180	1.151	1.107	1.165	0.297	-0.087
Fine Dust	GRSM1	35.633	-83.942	-0.011	0.005	0.717	0.409	0.566	0.563	0.161	-1.881
Fine Dust	GUMO1	31.833	-104.809	0.025	0.037	1.372	2.086	1.886	1.729	0.647	1.422
Fine Dust	HALE1	20.809	-156.282	0.000	0.856	0.248	0.245	0.248	0.246	0.038	-0.041
Fine Dust	HAVO1	19.431	-155.258	-0.001	0.382	0.188	0.147	0.171	0.162	0.078	-0.875
Fine Dust	JARB1	41.893	-115.426	0.002	0.630	1.060	1.112	1.044	1.086	0.202	0.164
Fine Dust	LAVO1	40.54	-121.577	-0.002	0.487	0.501	0.445	0.484	0.473	0.139	-0.410
Fine Dust	LYBR1	43.148	-73.127	-0.003	0.365	0.326	0.231	0.293	0.287	0.075	-1.144
Fine Dust	MACA1	37.132	-86.148	-0.009	0.114	0.775	0.520	0.608	0.639	0.162	-1.381
Fine Dust	MEVE1	37.198	-108.491	0.003	0.708	0.764	0.857	0.930	0.811	0.381	0.395
Fine Dust	MOOS1	45.126	-67.266	-0.007	0.000	0.358	0.147	0.213	0.234	0.068	-3.104
Fine Dust	MORA1	46.758	-122.124	-0.004	0.002	0.298	0.174	0.221	0.236	0.060	-1.818
Fine Dust	MOZI1	40.538	-106.677	-0.010	0.003	0.699	0.405	0.520	0.527	0.128	-1.928
Fine Dust	OKEF1	30.74	-82.128	-0.012	0.006	1.028	0.666	0.833	0.835	0.206	-1.495
Fine Dust	PEFO1	35.078	-109.769	0.005	0.363	0.925	1.073	1.034	0.999	0.218	0.509
Fine Dust	PINN1	36.483	-121.157	-0.003	0.012	0.509	0.409	0.457	0.459	0.062	-0.754

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Fine Dust	PORE1	38.122	-122.909	0.000	0.817	0.217	0.222	0.230	0.219	0.046	0.072
Fine Dust	REDW1	41.561	-124.084	-0.002	0.016	0.187	0.136	0.162	0.162	0.036	-1.089
Fine Dust	ROMA1	32.941	-79.657	-0.006	0.148	0.743	0.567	0.622	0.639	0.128	-0.949
Fine Dust	ROMO1	40.278	-105.546	-0.007	0.024	0.767	0.572	0.692	0.666	0.144	-1.014
Fine Dust	SAGO1	34.194	-116.913	-0.017	0.000	1.074	0.578	0.822	0.809	0.195	-2.115
Fine Dust	SAGU1	32.175	-110.737	-0.020	0.446	2.112	1.525	1.830	1.737	0.640	-1.164
Fine Dust	SAWT1	44.171	-114.927	-0.003	0.366	0.469	0.387	0.450	0.422	0.111	-0.665
Fine Dust	SEQU1	36.489	-118.829	-0.007	0.192	1.143	0.944	1.308	1.037	1.094	-0.661
Fine Dust	SHEN1	38.523	-78.435	-0.010	0.000	0.594	0.302	0.438	0.448	0.127	-2.251
Fine Dust	SHRO1	35.394	-82.774	-0.014	0.003	0.768	0.350	0.520	0.516	0.167	-2.798
Fine Dust	SIPS1	34.343	-87.339	-0.014	0.026	0.924	0.527	0.755	0.705	0.220	-1.942
Fine Dust	SNPA1	47.422	-121.426	-0.005	0.002	0.300	0.155	0.228	0.215	0.084	-2.322
Fine Dust	SULA1	45.86	-114	-0.006	0.047	0.440	0.280	0.377	0.349	0.125	-1.580
Fine Dust	THSI1	44.291	-122.043	0.005	0.082	0.249	0.408	0.406	0.339	0.211	1.618
Fine Dust	TONT1	33.655	-111.107	0.008	0.133	1.036	1.271	1.307	1.157	0.329	0.702
Fine Dust	UPBU1	35.826	-93.203	-0.010	0.069	1.050	0.748	0.913	0.889	0.264	-1.172
Fine Dust	VIIS1	18.336	-64.796	-0.062	0.002	3.838	2.032	2.957	2.904	0.818	-2.145
Fine Dust	WEMI1	37.659	-107.8	-0.002	0.708	0.666	0.612	0.657	0.639	0.192	-0.288
Fine Dust	WHRI1	39.154	-106.821	0.003	0.440	0.524	0.614	0.580	0.575	0.137	0.544
Fine Dust	YELL2	44.565	-110.4	-0.016	0.000	0.648	0.186	0.463	0.417	0.179	-3.823
Fine Dust	YOSE1	37.713	-119.706	-0.001	0.509	0.635	0.606	0.599	0.620	0.093	-0.163
FM	ACAD1	44.377	-68.261	-0.169	0.000	7.153	2.261	4.960	4.707	1.574	-3.584
FM	BADL1	43.743	-101.941	-0.053	0.000	4.566	3.027	3.803	3.796	0.661	-1.398
FM	BAND1	35.78	-106.266	-0.043	0.000	3.944	2.699	3.288	3.321	0.519	-1.292
FM	BIBE1	29.303	-103.178	-0.055	0.000	6.414	4.822	5.681	5.618	0.906	-0.977
FM	BLIS1	38.976	-120.103	-0.017	0.152	3.514	3.027	3.236	3.254	0.564	-0.516
FM	BOWA1	47.947	-91.495	-0.099	0.000	5.697	2.836	4.153	4.118	0.927	-2.396
FM	BRCA1	37.618	-112.174	-0.030	0.000	3.134	2.257	2.697	2.680	0.370	-1.127
FM	BRID1	42.975	-109.758	-0.018	0.061	2.790	2.269	2.466	2.530	0.432	-0.710
FM	BRIG1	39.465	-74.449	-0.285	0.000	13.850	5.573	8.900	9.426	2.379	-3.028
FM	CANY1	38.459	-109.821	-0.045	0.000	3.667	2.353	2.953	3.010	0.493	-1.505
FM	CHAS1	28.748	-82.555	-0.222	0.000	11.964	5.530	8.435	8.192	2.054	-2.708
FM	CHIR1	32.009	-109.389	-0.049	0.000	4.347	2.925	3.691	3.636	0.585	-1.349
FM	CORI1	45.664	-121.001	-0.065	0.003	6.588	4.714	5.353	5.489	0.682	-1.177
FM	CRLA1	42.896	-122.136	-0.018	0.441	2.885	2.373	2.885	2.602	1.254	-0.679
FM	CRMO1	43.46	-113.555	-0.041	0.027	3.688	2.502	3.168	3.054	0.801	-1.339

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FM	DENA1	63.723	-148.967	-0.028	0.003	1.823	1.016	1.631	1.419	0.567	-1.960
FM	DOSO1	39.105	-79.426	-0.384	0.000	15.192	4.043	8.786	9.233	3.207	-4.164
FM	EVER1	25.391	-80.681	-0.164	0.000	9.243	4.475	7.361	6.612	2.280	-2.486
FM	GICL1	33.22	-108.235	-0.064	0.000	4.385	2.531	3.417	3.330	0.600	-1.919
FM	GLAC1	48.511	-113.997	-0.076	0.000	6.156	3.964	5.065	5.060	0.949	-1.494
FM	GRBA1	39.005	-114.216	-0.024	0.003	2.870	2.161	2.600	2.479	0.429	-0.986
FM	GRCA2	36.066	-112.154	-0.034	0.000	3.319	2.347	2.904	2.817	0.451	-1.190
FM	GRSA1	37.725	-105.519	-0.032	0.004	3.616	2.697	3.179	3.156	0.506	-1.004
FM	GRSM1	35.633	-83.942	-0.355	0.000	15.635	5.351	9.736	10.493	3.235	-3.380
FM	GUMO1	31.833	-104.809	-0.018	0.344	5.446	4.913	5.121	5.179	0.818	-0.355
FM	HALE1	20.809	-156.282	-0.029	0.053	3.243	2.414	2.879	2.929	0.318	-0.976
FM	HAVO1	19.431	-155.258	0.006	0.888	4.054	4.224	4.059	4.162	1.151	0.141
FM	JARB1	41.893	-115.426	-0.013	0.326	3.259	2.878	3.065	3.068	0.565	-0.428
FM	LAVO1	40.54	-121.577	0.001	0.901	2.852	2.886	3.225	2.869	1.120	0.041
FM	LYBR1	43.148	-73.127	-0.196	0.000	7.838	2.161	5.766	5.489	1.446	-3.566
FM	MACA1	37.132	-86.148	-0.342	0.000	16.212	6.299	10.330	10.914	2.981	-3.132
FM	MEVE1	37.198	-108.491	-0.044	0.000	3.635	2.356	3.088	2.995	0.703	-1.472
FM	MOOS1	45.126	-67.266	-0.147	0.000	6.599	2.337	4.245	4.101	1.157	-3.584
FM	MORA1	46.758	-122.124	-0.112	0.000	5.110	1.873	3.796	3.492	1.135	-3.196
FM	MOZI1	40.538	-106.677	-0.030	0.004	2.877	2.002	2.288	2.364	0.366	-1.276
FM	OKEF1	30.74	-82.128	-0.227	0.000	12.531	5.942	8.852	9.009	2.129	-2.522
FM	PEFO1	35.078	-109.769	-0.045	0.000	4.354	3.063	3.584	3.709	0.548	-1.201
FM	PINN1	36.483	-121.157	-0.088	0.000	5.866	3.324	4.841	4.595	0.932	-1.908
FM	PORE1	38.122	-122.909	-0.064	0.007	7.287	5.442	6.326	6.365	0.983	-1.000
FM	REDW1	41.561	-124.084	-0.059	0.001	4.693	2.996	3.940	3.844	0.779	-1.522
FM	ROMA1	32.941	-79.657	-0.259	0.000	12.945	5.446	8.662	8.549	2.154	-3.025
FM	ROMO1	40.278	-105.546	-0.029	0.004	3.308	2.462	2.848	2.870	0.436	-1.016
FM	SAGO1	34.194	-116.913	-0.195	0.000	8.469	2.813	5.647	5.446	1.925	-3.582
FM	SAGU1	32.175	-110.737	-0.066	0.000	5.829	3.915	4.714	4.608	0.915	-1.433
FM	SAWT1	44.171	-114.927	0.012	0.877	2.747	3.094	3.292	2.945	1.007	0.406
FM	SEQU1	36.489	-118.829	-0.171	0.000	10.762	5.789	8.638	8.104	1.962	-2.116
FM	SHEN1	38.523	-78.435	-0.310	0.000	13.767	4.789	8.752	9.278	2.776	-3.337
FM	SHRO1	35.394	-82.774	-0.291	0.000	11.748	3.313	6.821	6.658	2.403	-4.368
FM	SIPS1	34.343	-87.339	-0.341	0.000	16.452	6.560	10.425	10.994	3.272	-3.102
FM	SNPA1	47.422	-121.426	-0.069	0.001	4.005	1.999	2.991	2.829	0.733	-2.444
FM	SULA1	45.86	-114	-0.009	0.655	2.853	2.580	3.146	2.697	1.594	-0.349



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FM	THSI1	44.291	-122.043	-0.018	0.440	3.209	2.692	3.141	2.915	1.124	-0.612
FM	TONT1	33.655	-111.107	-0.044	0.000	4.992	3.724	4.381	4.336	0.595	-1.009
FM	UPBU1	35.826	-93.203	-0.222	0.000	11.826	5.390	8.434	8.386	1.907	-2.646
FM	VIIS1	18.336	-64.796	-0.065	0.007	7.790	5.899	6.820	6.812	1.005	-0.957
FM	WEMI1	37.659	-107.8	-0.030	0.001	3.007	2.146	2.564	2.576	0.414	-1.153
FM	WHRI1	39.154	-106.821	-0.032	0.000	2.711	1.793	2.139	2.189	0.340	-1.445
FM	YELL2	44.565	-110.4	-0.041	0.001	3.386	2.204	2.739	2.795	0.541	-1.459
FM	YOSE1	37.713	-119.706	-0.022	0.181	4.709	4.073	4.667	4.391	1.341	-0.500
CM	ACAD1	44.377	-68.261	-0.089	0.009	4.055	1.473	3.344	2.764	1.236	-3.220
CM	BADL1	43.743	-101.941	-0.068	0.000	5.890	3.925	5.043	4.908	0.864	-1.381
CM	BAND1	35.78	-106.266	-0.045	0.013	4.146	2.840	3.782	3.493	1.274	-1.289
CM	BIBE1	29.303	-103.178	-0.073	0.077	7.952	5.842	7.180	6.897	1.961	-1.055
CM	BLIS1	38.976	-120.103	-0.014	0.440	2.623	2.224	2.450	2.410	0.546	-0.571
CM	BOWA1	47.947	-91.495	-0.029	0.014	3.026	2.172	2.627	2.540	0.494	-1.159
CM	BRCA1	37.618	-112.174	-0.038	0.005	3.449	2.353	2.978	2.882	0.725	-1.311
CM	BRID1	42.975	-109.758	-0.058	0.000	2.770	1.076	2.278	1.923	0.869	-3.037
CM	BRIG1	39.465	-74.449	-0.132	0.108	11.076	7.239	9.580	8.959	3.286	-1.477
CM	CANY1	38.459	-109.821	-0.092	0.000	5.227	2.566	4.219	3.897	1.258	-2.354
CM	CHAS1	28.748	-82.555	-0.119	0.003	7.568	4.113	6.404	5.542	1.642	-2.150
CM	CHIR1	32.009	-109.389	0.030	0.246	5.316	6.190	5.913	5.753	1.202	0.524
CM	CORI1	45.664	-121.001	0.180	0.009	5.928	11.143	9.628	8.985	2.901	2.001
CM	CRLA1	42.896	-122.136	-0.092	0.000	2.967	0.296	2.013	1.493	1.120	-6.166
CM	DENA1	63.723	-148.967	-0.053	0.011	2.111	0.563	1.793	1.337	0.916	-3.991
CM	DOSO1	39.105	-79.426	-0.052	0.035	3.443	1.948	2.892	2.618	0.867	-1.969
CM	GICL1	33.22	-108.235	-0.055	0.040	3.996	2.396	3.370	3.086	0.936	-1.787
CM	GLAC1	48.511	-113.997	-0.081	0.000	5.928	3.589	5.220	4.759	1.591	-1.695
CM	GRBA1	39.005	-114.216	-0.028	0.076	3.620	2.796	3.154	3.165	0.563	-0.897
CM	GRCA2	36.066	-112.154	-0.129	0.000	4.797	1.068	3.573	2.997	1.628	-4.291
CM	GRSA1	37.725	-105.519	-0.081	0.004	5.337	2.979	4.451	4.158	1.611	-1.955
CM	GRSM1	35.633	-83.942	-0.076	0.000	5.207	3.012	4.308	4.109	1.026	-1.842
CM	GUMO1	31.833	-104.809	0.045	0.422	7.412	8.720	9.033	8.066	2.867	0.559
CM	HAVO1	19.431	-155.258	0.004	0.763	1.441	1.554	2.045	1.515	2.276	0.257
CM	JARB1	41.893	-115.426	-0.066	0.002	5.006	3.106	4.391	4.056	1.172	-1.616
CM	LAVO1	40.54	-121.577	-0.012	0.402	2.576	2.220	2.631	2.398	0.975	-0.511
CM	MACA1	37.132	-86.148	-0.038	0.155	4.759	3.664	4.198	4.174	0.978	-0.904
CM	MEVE1	37.198	-108.491	-0.044	0.034	3.896	2.614	3.640	3.255	1.328	-1.357

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CM	MOOS1	45.126	-67.266	-0.062	0.000	3.225	1.438	2.470	2.177	0.757	-2.831
CM	MORA1	46.758	-122.124	-0.061	0.000	3.146	1.369	2.524	2.257	0.756	-2.714
CM	MOZI1	40.538	-106.677	-0.093	0.000	3.841	1.156	2.620	2.267	0.893	-4.085
CM	OKEF1	30.74	-82.128	-0.077	0.082	6.324	4.091	5.726	5.131	1.852	-1.501
CM	PEFO1	35.078	-109.769	0.024	0.246	4.131	4.831	4.520	4.481	1.146	0.539
CM	PINN1	36.483	-121.157	-0.085	0.006	7.198	4.745	6.408	5.972	1.445	-1.417
CM	PORE1	38.122	-122.909	-0.097	0.002	9.440	6.638	8.470	8.039	2.114	-1.202
CM	REDW1	41.561	-124.084	-0.065	0.011	5.085	3.193	4.485	4.139	1.076	-1.576
CM	ROMA1	32.941	-79.657	-0.098	0.036	7.727	4.871	6.316	6.053	1.469	-1.627
CM	ROMO1	40.278	-105.546	-0.055	0.002	4.017	2.409	3.436	3.185	0.868	-1.741
CM	SAGO1	34.194	-116.913	-0.109	0.000	7.564	4.390	6.340	5.868	1.834	-1.866
CM	SAGU1	32.175	-110.737	-0.004	0.888	7.776	7.646	7.683	7.693	1.184	-0.058
CM	SEQU1	36.489	-118.829	0.003	0.982	9.711	9.790	10.100	9.756	3.798	0.028
CM	SHEN1	38.523	-78.435	-0.071	0.001	4.374	2.329	3.705	3.351	1.146	-2.105
CM	SHRO1	35.394	-82.774	-0.022	0.771	2.871	2.234	2.775	2.475	1.182	-0.888
CM	SIPS1	34.343	-87.339	-0.079	0.000	5.853	3.569	4.804	4.593	0.865	-1.715
CM	SNPA1	47.422	-121.426	-0.027	0.102	1.805	1.011	1.493	1.326	0.616	-2.064
CM	THSI1	44.291	-122.043	0.030	0.262	2.352	3.212	3.216	2.856	1.411	1.039
CM	TONT1	33.655	-111.107	-0.035	0.177	7.404	6.385	6.832	6.877	1.229	-0.511
CM	UPBU1	35.826	-93.203	-0.080	0.108	7.331	5.000	6.116	6.045	1.728	-1.330
CM	WEMI1	37.659	-107.8	-0.082	0.000	3.930	1.565	3.017	2.748	0.984	-2.968
CM	YELL2	44.565	-110.4	-0.090	0.000	3.294	0.680	2.736	1.987	1.617	-4.535
CM	YOSE1	37.713	-119.706	-0.013	0.605	4.425	4.059	4.306	4.242	0.880	-0.297
PM10	ACAD1	44.377	-68.261	-0.253	0.000	10.930	3.593	8.338	7.261	2.704	-3.484
PM10	BADL1	43.743	-101.941	-0.124	0.000	10.758	7.173	8.835	8.966	1.318	-1.379
PM10	BAND1	35.78	-106.266	-0.098	0.000	8.269	5.433	7.032	6.851	1.485	-1.428
PM10	BIBE1	29.303	-103.178	-0.126	0.013	14.267	10.613	12.885	12.440	2.683	-1.013
PM10	BLIS1	38.976	-120.103	-0.035	0.118	6.119	5.109	5.659	5.579	0.918	-0.624
PM10	BOWA1	47.947	-91.495	-0.137	0.000	8.785	4.797	6.835	6.585	1.291	-2.088
PM10	BRCA1	37.618	-112.174	-0.076	0.000	6.601	4.392	5.690	5.458	1.025	-1.396
PM10	BRID1	42.975	-109.758	-0.082	0.000	5.654	3.264	4.721	4.459	1.097	-1.849
PM10	BRIG1	39.465	-74.449	-0.430	0.000	24.455	11.990	18.514	17.578	4.541	-2.445
PM10	CANY1	38.459	-109.821	-0.143	0.000	8.843	4.704	7.189	6.774	1.655	-2.107
PM10	CHAS1	28.748	-82.555	-0.344	0.000	19.165	9.175	14.714	13.653	3.262	-2.523
PM10	CHIR1	32.009	-109.389	-0.012	0.762	10.110	9.760	9.610	9.935	1.479	-0.122
PM10	CORI1	45.664	-121.001	0.132	0.082	11.906	15.737	14.807	14.086	2.974	0.938

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{yr}^{-1}$ )	Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
PM10	CRLA1	42.896	-122.136	-0.112	0.003	6.113	2.864	4.951	4.433	1.945	-2.528
PM10	DENA1	63.723	-148.967	-0.089	0.000	4.607	2.014	3.597	3.310	1.386	-2.701
PM10	DOSO1	39.105	-79.426	-0.445	0.000	18.507	5.588	11.474	11.379	3.710	-3.915
PM10	GICL1	33.22	-108.235	-0.126	0.003	8.663	5.004	7.067	6.581	1.574	-1.917
PM10	GLAC1	48.511	-113.997	-0.164	0.000	12.624	7.861	10.458	10.243	2.611	-1.604
PM10	GRBA1	39.005	-114.216	-0.047	0.029	6.405	5.039	5.725	5.651	0.893	-0.833
PM10	GRCA2	36.066	-112.154	-0.160	0.000	8.182	3.548	6.470	5.945	1.946	-2.688
PM10	GRSA1	37.725	-105.519	-0.113	0.001	8.888	5.617	7.610	7.253	2.005	-1.555
PM10	GRSM1	35.633	-83.942	-0.409	0.000	20.110	8.235	14.103	14.172	3.905	-2.889
PM10	GUMO1	31.833	-104.809	0.011	0.872	13.024	13.345	14.247	13.184	3.523	0.084
PM10	HAVO1	19.431	-155.258	-0.001	1.000	5.689	5.670	6.075	5.677	2.633	-0.012
PM10	JARB1	41.893	-115.426	-0.090	0.006	8.413	5.816	7.458	7.114	1.545	-1.259
PM10	LAVO1	40.54	-121.577	-0.016	0.443	5.595	5.131	5.916	5.363	1.589	-0.298
PM10	MACA1	37.132	-86.148	-0.386	0.000	20.059	8.855	14.493	14.071	3.418	-2.746
PM10	MEVE1	37.198	-108.491	-0.089	0.006	7.668	5.081	6.744	6.374	1.959	-1.399
PM10	MOOS1	45.126	-67.266	-0.205	0.000	9.628	3.676	6.708	6.139	1.840	-3.344
PM10	MORA1	46.758	-122.124	-0.177	0.000	8.505	3.373	6.308	5.939	1.793	-2.980
PM10	MOZI1	40.538	-106.677	-0.117	0.000	6.651	3.244	4.894	4.654	1.156	-2.524
PM10	OKEF1	30.74	-82.128	-0.331	0.000	18.580	8.970	14.608	13.444	3.388	-2.465
PM10	PEFO1	35.078	-109.769	-0.017	0.605	8.146	7.661	8.159	7.903	1.548	-0.211
PM10	PINN1	36.483	-121.157	-0.160	0.000	12.972	8.323	11.200	10.647	2.226	-1.506
PM10	PORE1	38.122	-122.909	-0.173	0.000	16.799	11.768	14.841	14.283	2.751	-1.215
PM10	REDW1	41.561	-124.084	-0.117	0.004	9.910	6.523	8.488	8.216	1.728	-1.421
PM10	ROMA1	32.941	-79.657	-0.369	0.000	20.463	9.749	14.942	14.182	3.226	-2.605
PM10	ROMO1	40.278	-105.546	-0.085	0.000	7.338	4.859	6.252	6.056	1.188	-1.411
PM10	SAGO1	34.194	-116.913	-0.317	0.000	16.180	6.978	11.956	11.262	3.441	-2.818
PM10	SAGU1	32.175	-110.737	-0.095	0.045	14.295	11.530	12.396	12.531	1.613	-0.761
PM10	SEQU1	36.489	-118.829	-0.151	0.074	20.009	15.626	18.611	17.515	5.235	-0.863
PM10	SHEN1	38.523	-78.435	-0.399	0.000	18.029	6.452	12.515	12.241	3.629	-3.261
PM10	SHRO1	35.394	-82.774	-0.365	0.000	15.224	4.644	9.571	8.657	3.195	-4.214
PM10	SIPS1	34.343	-87.339	-0.432	0.000	22.228	9.691	15.241	15.311	3.994	-2.824
PM10	SNPA1	47.422	-121.426	-0.108	0.003	6.065	2.926	4.429	4.171	1.150	-2.595
PM10	THSI1	44.291	-122.043	0.032	0.427	5.199	6.119	6.363	5.738	2.108	0.553
PM10	TONT1	33.655	-111.107	-0.075	0.072	12.351	10.162	11.243	11.219	1.644	-0.673
PM10	UPBU1	35.826	-93.203	-0.295	0.000	20.508	11.955	14.496	15.789	2.919	-1.868
PM10	WEMI1	37.659	-107.8	-0.111	0.000	7.081	3.873	5.570	5.477	1.237	-2.019

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
PM10	YELL2	44.565	-110.4	-0.128	0.000	6.541	2.834	5.431	4.687	1.939	-2.727
PM10	YOSE1	37.713	-119.706	-0.047	0.218	9.272	7.894	9.209	8.583	2.055	-0.553

## Appendix 6.2. IMPROVE Short-Term (2000–2019) Mass Percentile Trends

Table 6.2.1. IMPROVE short-term (2000–2019) 10<sup>th</sup> percentile mass trends for sites that met completeness criteria (see Chapter 6). Species include sulfate ion (SO<sub>4</sub>), nitrate ion (NO<sub>3</sub>), organic carbon (OC), elemental carbon (EC), fine dust (FD), gravimetric PM<sub>2.5</sub> mass (FM), coarse mass (CM), and gravimetric PM<sub>10</sub> mass (PM<sub>10</sub>). The slope is derived from a linear trend regression, beginning and end year concentrations are based on the linear fit for year 2000 and 2019, the mean and median 10<sup>th</sup> percentile concentrations over the 2000-2019 period, standard deviation in the mean over the 2000-2019 period, and trend is the slope divided by the median concentration times 100.

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	ACAD1	44.377	-68.261	-0.017	0.000	0.499	0.167	0.326	0.333	0.114	-5.243
SO4	AGTI1	33.464	-116.971	-0.010	0.000	0.325	0.138	0.230	0.227	0.066	-4.334
SO4	BADL1	43.743	-101.941	-0.011	0.000	0.329	0.112	0.238	0.221	0.074	-5.168
SO4	BALD1	34.058	-109.441	-0.005	0.001	0.202	0.117	0.158	0.157	0.042	-2.869
SO4	BAND1	35.78	-106.266	-0.009	0.000	0.284	0.106	0.203	0.195	0.064	-4.817
SO4	BIBE1	29.303	-103.178	-0.015	0.000	0.533	0.252	0.409	0.392	0.120	-3.775
SO4	BLIS1	38.976	-120.103	-0.001	0.028	0.097	0.069	0.090	0.084	0.017	-1.728
SO4	BOAP1	33.869	-106.852	-0.010	0.000	0.343	0.153	0.257	0.248	0.076	-4.023
SO4	BOND1	40.052	-88.373	-0.043	0.000	1.227	0.416	0.789	0.800	0.255	-5.331
SO4	BOWA1	47.947	-91.495	-0.012	0.000	0.319	0.094	0.224	0.207	0.078	-5.726
SO4	BRCA1	37.618	-112.174	-0.004	0.000	0.159	0.092	0.132	0.126	0.028	-2.800
SO4	BRID1	42.975	-109.758	-0.005	0.000	0.160	0.065	0.119	0.112	0.035	-4.462
SO4	BRIG1	39.465	-74.449	-0.049	0.000	1.180	0.255	0.794	0.717	0.305	-6.787
SO4	BRMA1	44.107	-70.729	-0.019	0.000	0.536	0.176	0.371	0.385	0.097	-4.923
SO4	CABA1	43.833	-70.064	-0.022	0.000	0.577	0.150	0.393	0.352	0.142	-6.388
SO4	CABI1	47.955	-115.671	-0.004	0.004	0.133	0.063	0.099	0.096	0.032	-3.813
SO4	CACO1	41.976	-70.024	-0.024	0.000	0.711	0.247	0.483	0.467	0.144	-5.239
SO4	CACR1	34.454	-94.143	-0.026	0.000	0.781	0.285	0.531	0.520	0.184	-5.018
SO4	CANY1	38.459	-109.821	-0.007	0.000	0.283	0.143	0.208	0.213	0.052	-3.442
SO4	CAPI1	38.302	-111.293	-0.004	0.003	0.195	0.127	0.166	0.158	0.033	-2.259
SO4	CEBL1	38.77	-99.763	-0.014	0.003	0.448	0.191	0.305	0.299	0.078	-4.516
SO4	CHAS1	28.748	-82.555	-0.047	0.000	1.429	0.528	0.958	0.978	0.288	-4.845
SO4	CHIR1	32.009	-109.389	-0.008	0.000	0.319	0.166	0.247	0.243	0.052	-3.312
SO4	COHU1	34.785	-84.627	-0.059	0.000	1.319	0.207	0.733	0.705	0.334	-8.303
SO4	CORI1	45.664	-121.001	-0.009	0.000	0.267	0.096	0.193	0.181	0.074	-4.951
SO4	CRLA1	42.896	-122.136	-0.001	0.080	0.057	0.040	0.050	0.048	0.014	-1.882
SO4	CRMO1	43.46	-113.555	-0.005	0.000	0.171	0.075	0.128	0.123	0.037	-4.093
SO4	DENA1	63.723	-148.967	-0.001	0.243	0.060	0.048	0.058	0.054	0.014	-1.143
SO4	DOME1	35.728	-118.138	-0.004	0.001	0.202	0.118	0.166	0.158	0.050	-2.788

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	DOSO1	39.105	-79.426	-0.049	0.000	1.234	0.295	0.761	0.764	0.317	-6.464
SO4	EGBE1	44.231	-79.783	-0.013	0.005	0.456	0.214	0.297	0.297	0.072	-4.276
SO4	ELDO1	37.701	-94.035	-0.023	0.007	0.884	0.446	0.675	0.688	0.125	-3.354
SO4	EVER1	25.391	-80.681	-0.019	0.001	0.917	0.558	0.760	0.728	0.128	-2.592
SO4	FLAT1	47.773	-114.269	-0.005	0.007	0.139	0.051	0.092	0.088	0.029	-5.254
SO4	FOPE1	48.308	-105.102	-0.007	0.017	0.299	0.173	0.243	0.226	0.047	-2.952
SO4	FRRE1	39.706	-79.012	-0.067	0.000	1.608	0.337	0.923	0.839	0.354	-7.975
SO4	GAMO1	46.826	-111.711	-0.003	0.002	0.092	0.039	0.071	0.064	0.022	-4.363
SO4	GICL1	33.22	-108.235	-0.008	0.000	0.256	0.105	0.194	0.181	0.065	-4.389
SO4	GLAC1	48.511	-113.997	-0.007	0.000	0.210	0.078	0.151	0.144	0.049	-4.802
SO4	GRBA1	39.005	-114.216	-0.003	0.000	0.130	0.075	0.107	0.103	0.021	-2.809
SO4	GRCA2	36.066	-112.154	-0.005	0.000	0.189	0.095	0.151	0.142	0.037	-3.493
SO4	GRGU1	44.308	-71.218	-0.017	0.000	0.438	0.120	0.298	0.271	0.103	-6.197
SO4	GRR11	43.937	-91.405	-0.022	0.000	0.647	0.227	0.432	0.404	0.125	-5.469
SO4	GRSA1	37.725	-105.519	-0.006	0.000	0.214	0.092	0.161	0.153	0.043	-4.186
SO4	GRSM1	35.633	-83.942	-0.064	0.000	1.470	0.257	0.829	0.863	0.382	-7.397
SO4	GUMO1	31.833	-104.809	-0.009	0.000	0.378	0.198	0.291	0.288	0.073	-3.298
SO4	HAVO1	19.431	-155.258	-0.003	0.054	0.207	0.150	0.180	0.177	0.029	-1.694
SO4	HECA1	44.97	-116.844	-0.005	0.002	0.188	0.090	0.128	0.136	0.039	-3.777
SO4	HEGL1	36.614	-92.922	-0.031	0.000	0.974	0.378	0.639	0.660	0.190	-4.750
SO4	HOOV1	38.088	-119.177	0.000	0.791	0.088	0.085	0.086	0.086	0.016	-0.164
SO4	IKBA1	34.34	-111.683	-0.008	0.000	0.267	0.107	0.216	0.187	0.072	-4.517
SO4	ISLE1	47.46	-88.149	-0.012	0.000	0.331	0.097	0.245	0.214	0.086	-5.757
SO4	JARB1	41.893	-115.426	-0.002	0.004	0.111	0.077	0.096	0.094	0.013	-1.922
SO4	JARI1	37.627	-79.512	-0.076	0.000	1.725	0.279	0.996	0.964	0.454	-7.899
SO4	JOSH1	34.07	-116.389	-0.008	0.000	0.249	0.100	0.191	0.174	0.059	-4.487
SO4	KAIS1	37.221	-119.155	-0.001	0.120	0.103	0.075	0.084	0.087	0.015	-1.666
SO4	KALM1	42.552	-124.059	-0.002	0.015	0.082	0.045	0.072	0.063	0.031	-3.081
SO4	LABE1	41.712	-121.507	-0.002	0.040	0.079	0.050	0.073	0.064	0.030	-2.416
SO4	LASU2	40.693	-92.006	-0.037	0.000	0.993	0.282	0.566	0.544	0.178	-6.887
SO4	LAVO1	40.54	-121.577	-0.001	0.270	0.083	0.069	0.073	0.076	0.015	-0.951
SO4	LIGO1	35.972	-81.933	-0.049	0.000	1.059	0.137	0.681	0.598	0.337	-8.116
SO4	LOST1	48.642	-102.402	-0.009	0.000	0.439	0.276	0.351	0.358	0.073	-2.409
SO4	MACA1	37.132	-86.148	-0.079	0.000	2.029	0.528	1.160	1.279	0.472	-6.178
SO4	MAVI1	41.331	-70.785	-0.030	0.000	0.742	0.176	0.479	0.414	0.164	-7.186
SO4	MEAD1	36.019	-114.068	-0.006	0.000	0.241	0.119	0.178	0.171	0.039	-3.783

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3}\text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	MELA1	48.487	-104.476	-0.007	0.014	0.314	0.178	0.259	0.246	0.063	-2.914
SO4	MEVE1	37.198	-108.491	-0.008	0.000	0.252	0.108	0.183	0.180	0.049	-4.194
SO4	MING1	36.972	-90.143	-0.042	0.000	1.222	0.430	0.768	0.805	0.242	-5.180
SO4	MOHO1	45.289	-121.784	-0.001	0.052	0.056	0.029	0.048	0.042	0.021	-3.333
SO4	MOMO1	41.821	-73.297	-0.032	0.000	0.721	0.118	0.412	0.388	0.177	-8.177
SO4	MONT1	47.122	-113.154	-0.003	0.011	0.118	0.055	0.092	0.085	0.030	-3.929
SO4	MOOS1	45.126	-67.266	-0.019	0.000	0.475	0.118	0.327	0.296	0.120	-6.337
SO4	MORA1	46.758	-122.124	-0.003	0.004	0.102	0.043	0.081	0.073	0.029	-4.279
SO4	MOZI1	40.538	-106.677	-0.004	0.000	0.167	0.098	0.135	0.131	0.036	-2.812
SO4	NEBR1	41.889	-100.339	-0.012	0.000	0.367	0.135	0.245	0.232	0.066	-5.261
SO4	NOAB1	44.745	-109.382	-0.003	0.002	0.128	0.062	0.101	0.094	0.029	-3.704
SO4	NOCA1	48.732	-121.065	-0.004	0.000	0.107	0.024	0.074	0.065	0.039	-6.727
SO4	NOCH1	45.65	-106.557	-0.003	0.032	0.183	0.119	0.150	0.146	0.032	-2.328
SO4	OKEF1	30.74	-82.128	-0.057	0.000	1.567	0.475	0.987	1.021	0.326	-5.630
SO4	OLYM1	48.007	-122.973	-0.006	0.001	0.169	0.048	0.104	0.103	0.042	-6.222
SO4	ORPI1	31.951	-112.802	-0.012	0.000	0.405	0.178	0.293	0.274	0.069	-4.385
SO4	PASA1	48.388	-119.927	-0.003	0.002	0.090	0.039	0.062	0.063	0.022	-4.229
SO4	PEFO1	35.078	-109.769	-0.008	0.000	0.298	0.140	0.220	0.219	0.056	-3.796
SO4	PENO1	44.948	-68.648	-0.016	0.003	0.483	0.170	0.292	0.277	0.080	-5.929
SO4	PINN1	36.483	-121.157	-0.006	0.000	0.288	0.167	0.239	0.228	0.061	-2.793
SO4	PMRF1	44.528	-72.869	-0.015	0.000	0.459	0.177	0.322	0.310	0.088	-4.784
SO4	PORE1	38.122	-122.909	-0.012	0.000	0.433	0.211	0.319	0.322	0.075	-3.614
SO4	PRIS1	46.696	-68.033	-0.014	0.000	0.429	0.164	0.298	0.290	0.084	-4.813
SO4	QUCI1	39.943	-81.338	-0.063	0.000	1.715	0.509	1.112	1.080	0.376	-5.873
SO4	QURE1	42.299	-72.335	-0.029	0.001	0.653	0.106	0.462	0.422	0.151	-6.818
SO4	QUVA1	33.294	-111.286	-0.012	0.000	0.419	0.191	0.339	0.323	0.062	-3.721
SO4	RAFA1	34.734	-120.007	-0.007	0.000	0.253	0.115	0.204	0.184	0.066	-3.935
SO4	REDW1	41.561	-124.084	-0.003	0.027	0.142	0.085	0.120	0.114	0.032	-2.623
SO4	ROMA1	32.941	-79.657	-0.051	0.000	1.575	0.605	1.011	1.090	0.314	-4.687
SO4	ROMO1	40.278	-105.546	-0.004	0.000	0.160	0.092	0.133	0.126	0.035	-2.866
SO4	SACR1	33.46	-104.404	-0.010	0.000	0.411	0.218	0.320	0.310	0.069	-3.291
SO4	SAGA1	34.297	-118.028	-0.006	0.000	0.189	0.080	0.138	0.129	0.039	-4.443
SO4	SAGO1	34.194	-116.913	-0.005	0.000	0.181	0.083	0.146	0.132	0.047	-3.930
SO4	SAGU1	32.175	-110.737	-0.010	0.000	0.383	0.197	0.286	0.285	0.062	-3.436
SO4	SAMA1	30.093	-84.161	-0.049	0.000	1.545	0.615	0.970	1.055	0.316	-4.635
SO4	SAPE1	36.014	-106.845	-0.005	0.000	0.206	0.102	0.149	0.151	0.041	-3.613

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SO4	SAWE1	32.249	-111.218	-0.011	0.000	0.440	0.238	0.321	0.328	0.061	-3.224
SO4	SAWT1	44.171	-114.927	-0.002	0.002	0.091	0.047	0.073	0.069	0.021	-3.416
SO4	SENE1	46.289	-85.95	-0.011	0.000	0.312	0.105	0.249	0.208	0.089	-5.239
SO4	SEQU1	36.489	-118.829	-0.006	0.023	0.270	0.163	0.227	0.217	0.060	-2.606
SO4	SHEN1	38.523	-78.435	-0.044	0.000	1.103	0.272	0.718	0.687	0.291	-6.366
SO4	SHMI1	37.304	-107.484	-0.006	0.000	0.229	0.108	0.151	0.152	0.033	-4.199
SO4	SHRO1	35.394	-82.774	-0.030	0.000	0.694	0.120	0.412	0.407	0.215	-7.420
SO4	SIAN1	34.091	-110.942	-0.011	0.000	0.276	0.067	0.220	0.193	0.063	-5.693
SO4	SIME1	55.326	-160.506	-0.002	0.088	0.203	0.161	0.179	0.180	0.027	-1.206
SO4	SIPS1	34.343	-87.339	-0.065	0.000	1.624	0.391	0.987	1.008	0.407	-6.438
SO4	SNPA1	47.422	-121.426	-0.006	0.000	0.142	0.023	0.088	0.083	0.048	-7.585
SO4	STAR1	45.225	-118.513	-0.004	0.000	0.144	0.070	0.108	0.107	0.037	-3.637
SO4	SULA1	45.86	-114	-0.003	0.000	0.102	0.037	0.080	0.070	0.026	-4.883
SO4	SWAN1	35.451	-76.207	-0.044	0.000	1.188	0.353	0.821	0.748	0.273	-5.876
SO4	SYCA1	35.141	-111.969	-0.006	0.000	0.221	0.099	0.186	0.173	0.061	-3.708
SO4	TALL1	38.434	-96.56	-0.018	0.000	0.659	0.314	0.456	0.459	0.115	-3.963
SO4	THBA1	44.663	-105.287	-0.005	0.009	0.235	0.141	0.184	0.178	0.036	-2.750
SO4	THRO1	46.895	-103.378	-0.009	0.000	0.316	0.148	0.245	0.232	0.071	-3.810
SO4	THSI1	44.291	-122.043	-0.001	0.173	0.059	0.036	0.050	0.048	0.014	-2.561
SO4	TONT1	33.655	-111.107	-0.011	0.000	0.386	0.172	0.297	0.279	0.080	-4.044
SO4	TRCR1	62.315	-150.316	-0.002	0.063	0.075	0.042	0.064	0.057	0.017	-3.035
SO4	TRIN1	40.786	-122.805	-0.001	0.322	0.072	0.051	0.071	0.062	0.025	-1.751
SO4	ULBE1	47.582	-108.72	-0.005	0.004	0.187	0.092	0.149	0.139	0.048	-3.585
SO4	UPBU1	35.826	-93.203	-0.029	0.000	0.866	0.315	0.560	0.591	0.202	-4.914
SO4	VIIS1	18.336	-64.796	0.000	0.934	0.450	0.441	0.448	0.446	0.043	-0.103
SO4	VILA1	40.969	-95.045	-0.025	0.000	0.748	0.271	0.504	0.472	0.143	-5.313
SO4	VOYA2	48.413	-92.829	-0.015	0.000	0.351	0.068	0.239	0.209	0.093	-7.105
SO4	WEMI1	37.659	-107.8	-0.004	0.000	0.159	0.077	0.133	0.118	0.046	-3.658
SO4	WHIT1	33.469	-105.535	-0.006	0.000	0.278	0.160	0.203	0.213	0.040	-2.929
SO4	WHPA1	46.624	-121.388	-0.002	0.012	0.050	0.015	0.039	0.033	0.023	-5.511
SO4	WHPE1	36.585	-105.452	-0.003	0.000	0.147	0.088	0.115	0.115	0.028	-2.685
SO4	WHRI1	39.154	-106.821	-0.003	0.000	0.144	0.078	0.110	0.111	0.031	-3.126
SO4	WICA1	43.558	-103.484	-0.008	0.000	0.274	0.125	0.205	0.200	0.054	-3.919
SO4	WIMO1	34.732	-98.713	-0.014	0.019	0.590	0.327	0.446	0.452	0.118	-3.067
SO4	YELL2	44.565	-110.4	-0.006	0.000	0.183	0.079	0.129	0.131	0.037	-4.203
SO4	YOSE1	37.713	-119.706	-0.002	0.009	0.126	0.079	0.106	0.102	0.023	-2.414



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SO4	ZICA1	37.198	-113.151	-0.004	0.003	0.201	0.123	0.159	0.156	0.027	-2.658
NO3	ACAD1	44.377	-68.261	-0.002	0.000	0.056	0.022	0.041	0.038	0.014	-4.782
NO3	AGTI1	33.464	-116.971	-0.006	0.003	0.181	0.058	0.139	0.116	0.069	-5.527
NO3	BADL1	43.743	-101.941	0.000	0.463	0.059	0.050	0.056	0.054	0.011	-0.869
NO3	BALD1	34.058	-109.441	0.000	0.248	0.031	0.023	0.028	0.027	0.007	-1.585
NO3	BAND1	35.78	-106.266	-0.001	0.012	0.060	0.036	0.049	0.047	0.011	-2.684
NO3	BIBE1	29.303	-103.178	0.000	0.600	0.051	0.043	0.051	0.047	0.012	-0.851
NO3	BLIS1	38.976	-120.103	-0.001	0.075	0.034	0.021	0.028	0.028	0.007	-2.397
NO3	BOAP1	33.869	-106.852	-0.001	0.011	0.060	0.037	0.049	0.048	0.010	-2.505
NO3	BOND1	40.052	-88.373	-0.012	0.000	0.392	0.161	0.284	0.271	0.078	-4.488
NO3	BOWA1	47.947	-91.495	-0.001	0.012	0.028	0.012	0.022	0.020	0.010	-4.271
NO3	BRCA1	37.618	-112.174	-0.001	0.035	0.039	0.028	0.035	0.033	0.009	-1.766
NO3	BRID1	42.975	-109.758	0.000	0.326	0.027	0.022	0.025	0.024	0.008	-1.160
NO3	BRIG1	39.465	-74.449	-0.005	0.000	0.224	0.132	0.176	0.176	0.034	-2.766
NO3	BRMA1	44.107	-70.729	-0.003	0.000	0.063	0.007	0.045	0.040	0.016	-7.398
NO3	CABA1	43.833	-70.064	-0.002	0.001	0.078	0.038	0.062	0.057	0.019	-3.671
NO3	CABI1	47.955	-115.671	-0.001	0.053	0.037	0.025	0.030	0.031	0.008	-2.115
NO3	CACO1	41.976	-70.024	-0.004	0.000	0.150	0.077	0.112	0.112	0.025	-3.424
NO3	CACR1	34.454	-94.143	-0.005	0.000	0.152	0.066	0.106	0.107	0.031	-4.241
NO3	CANY1	38.459	-109.821	-0.001	0.003	0.050	0.029	0.043	0.039	0.010	-2.769
NO3	CAPI1	38.302	-111.293	-0.001	0.010	0.047	0.032	0.042	0.039	0.011	-2.032
NO3	CEBL1	38.77	-99.763	-0.003	0.048	0.144	0.095	0.118	0.116	0.023	-2.254
NO3	CHAS1	28.748	-82.555	-0.002	0.046	0.162	0.122	0.144	0.141	0.026	-1.468
NO3	CHIR1	32.009	-109.389	-0.001	0.086	0.042	0.031	0.038	0.036	0.009	-1.654
NO3	COHU1	34.785	-84.627	-0.005	0.000	0.133	0.037	0.089	0.080	0.031	-6.355
NO3	CORI1	45.664	-121.001	-0.002	0.009	0.128	0.082	0.106	0.104	0.024	-2.348
NO3	CRLA1	42.896	-122.136	0.000	0.972	0.011	0.011	0.011	0.011	0.004	0.000
NO3	CRMO1	43.46	-113.555	-0.001	0.033	0.053	0.035	0.046	0.043	0.010	-2.186
NO3	DENA1	63.723	-148.967	0.000	0.362	0.006	0.003	0.004	0.005	0.004	-2.717
NO3	DOME1	35.728	-118.138	-0.001	0.240	0.067	0.051	0.060	0.058	0.021	-1.441
NO3	DOSO1	39.105	-79.426	-0.001	0.004	0.083	0.056	0.073	0.069	0.016	-2.105
NO3	EGBE1	44.231	-79.783	0.000	0.784	0.072	0.079	0.077	0.077	0.016	0.492
NO3	ELDO1	37.701	-94.035	-0.008	0.000	0.233	0.073	0.172	0.162	0.042	-5.200
NO3	EVER1	25.391	-80.681	-0.001	0.649	0.185	0.174	0.174	0.179	0.022	-0.308
NO3	FLAT1	47.773	-114.269	-0.001	0.084	0.037	0.018	0.028	0.026	0.009	-3.982
NO3	FOPE1	48.308	-105.102	0.000	0.805	0.044	0.047	0.046	0.046	0.009	0.277

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NO3	FRRE1	39.706	-79.012	-0.001	0.136	0.101	0.078	0.090	0.087	0.015	-1.396
NO3	GAMO1	46.826	-111.711	-0.001	0.014	0.029	0.016	0.024	0.022	0.009	-2.941
NO3	GICL1	33.22	-108.235	0.000	0.382	0.027	0.020	0.025	0.024	0.007	-1.489
NO3	GLAC1	48.511	-113.997	-0.001	0.019	0.051	0.029	0.040	0.040	0.011	-3.025
NO3	GRBA1	39.005	-114.216	0.000	0.221	0.025	0.017	0.021	0.021	0.006	-1.808
NO3	GRCA2	36.066	-112.154	-0.001	0.123	0.034	0.024	0.031	0.029	0.007	-1.817
NO3	GRGU1	44.308	-71.218	-0.001	0.031	0.035	0.017	0.026	0.025	0.009	-3.748
NO3	GRR11	43.937	-91.405	-0.004	0.002	0.177	0.092	0.130	0.128	0.035	-3.493
NO3	GRSA1	37.725	-105.519	-0.001	0.016	0.042	0.027	0.037	0.034	0.010	-2.237
NO3	GRSM1	35.633	-83.942	-0.003	0.000	0.102	0.052	0.079	0.075	0.017	-3.521
NO3	GUMO1	31.833	-104.809	-0.001	0.552	0.069	0.060	0.067	0.064	0.013	-0.780
NO3	HAVO1	19.431	-155.258	0.000	0.753	0.017	0.015	0.016	0.016	0.005	-0.875
NO3	HECA1	44.97	-116.844	-0.001	0.009	0.048	0.025	0.039	0.036	0.011	-3.393
NO3	HEGL1	36.614	-92.922	-0.004	0.000	0.140	0.068	0.110	0.102	0.025	-3.695
NO3	HOOV1	38.088	-119.177	0.000	0.791	0.016	0.016	0.017	0.016	0.006	-0.174
NO3	IKBA1	34.34	-111.683	-0.002	0.016	0.080	0.044	0.063	0.061	0.020	-3.137
NO3	ISLE1	47.46	-88.149	-0.001	0.012	0.033	0.016	0.026	0.024	0.010	-3.832
NO3	JARB1	41.893	-115.426	0.000	0.506	0.017	0.014	0.015	0.015	0.004	-0.915
NO3	JARI1	37.627	-79.512	-0.006	0.000	0.151	0.041	0.110	0.093	0.039	-6.221
NO3	JOSH1	34.07	-116.389	-0.004	0.009	0.099	0.032	0.076	0.064	0.034	-5.552
NO3	KAIS1	37.221	-119.155	0.000	0.622	0.017	0.014	0.016	0.015	0.006	-1.068
NO3	KALM1	42.552	-124.059	0.000	0.246	0.019	0.015	0.017	0.017	0.004	-1.330
NO3	LABE1	41.712	-121.507	-0.001	0.064	0.028	0.017	0.023	0.022	0.006	-2.541
NO3	LASU2	40.693	-92.006	-0.004	0.054	0.185	0.116	0.144	0.141	0.029	-2.596
NO3	LAVO1	40.54	-121.577	0.000	0.674	0.016	0.014	0.016	0.015	0.004	-0.613
NO3	LIGO1	35.972	-81.933	-0.002	0.000	0.065	0.033	0.055	0.048	0.017	-3.519
NO3	LOST1	48.642	-102.402	0.000	0.807	0.080	0.085	0.083	0.083	0.014	0.265
NO3	MACA1	37.132	-86.148	-0.006	0.000	0.188	0.081	0.143	0.132	0.045	-4.252
NO3	MAVI1	41.331	-70.785	-0.003	0.007	0.156	0.093	0.125	0.119	0.022	-2.784
NO3	MEAD1	36.019	-114.068	-0.001	0.007	0.050	0.032	0.042	0.040	0.008	-2.453
NO3	MELA1	48.487	-104.476	0.000	0.463	0.058	0.066	0.063	0.062	0.016	0.697
NO3	MEVE1	37.198	-108.491	-0.001	0.000	0.057	0.028	0.044	0.042	0.014	-3.538
NO3	MING1	36.972	-90.143	-0.006	0.000	0.171	0.051	0.122	0.108	0.042	-5.833
NO3	MOHO1	45.289	-121.784	0.000	0.751	0.013	0.011	0.013	0.012	0.007	-1.109
NO3	MOMO1	41.821	-73.297	-0.001	0.014	0.085	0.056	0.075	0.069	0.020	-2.153
NO3	MONT1	47.122	-113.154	-0.001	0.140	0.023	0.013	0.019	0.018	0.007	-2.897

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NO3	MOOS1	45.126	-67.266	-0.002	0.004	0.048	0.016	0.038	0.031	0.015	-5.323
NO3	MORA1	46.758	-122.124	-0.001	0.025	0.019	0.010	0.016	0.014	0.006	-3.571
NO3	MOZI1	40.538	-106.677	-0.001	0.007	0.040	0.026	0.035	0.033	0.008	-2.210
NO3	NEBR1	41.889	-100.339	0.000	0.187	0.064	0.055	0.058	0.059	0.012	-0.825
NO3	NOAB1	44.745	-109.382	0.000	0.100	0.022	0.014	0.021	0.018	0.009	-2.260
NO3	NOCA1	48.732	-121.065	0.000	0.028	0.014	0.008	0.012	0.011	0.005	-2.752
NO3	NOCH1	45.65	-106.557	0.000	0.070	0.036	0.028	0.030	0.032	0.005	-1.283
NO3	OKEF1	30.74	-82.128	-0.002	0.016	0.124	0.090	0.109	0.106	0.022	-1.710
NO3	OLYM1	48.007	-122.973	-0.002	0.075	0.062	0.033	0.048	0.046	0.018	-3.268
NO3	ORPI1	31.951	-112.802	-0.001	0.070	0.090	0.072	0.081	0.080	0.009	-1.185
NO3	PASA1	48.388	-119.927	-0.001	0.132	0.022	0.012	0.017	0.017	0.006	-3.232
NO3	PEFO1	35.078	-109.769	-0.002	0.000	0.073	0.033	0.057	0.052	0.016	-4.093
NO3	PENO1	44.948	-68.648	-0.001	0.412	0.044	0.035	0.037	0.038	0.007	-1.315
NO3	PINN1	36.483	-121.157	-0.004	0.004	0.160	0.085	0.133	0.121	0.033	-3.244
NO3	PMRF1	44.528	-72.869	-0.002	0.000	0.055	0.024	0.044	0.039	0.012	-4.221
NO3	PORE1	38.122	-122.909	-0.004	0.000	0.145	0.065	0.108	0.103	0.029	-4.065
NO3	PRIS1	46.696	-68.033	-0.001	0.000	0.045	0.018	0.035	0.031	0.010	-4.590
NO3	QUCI1	39.943	-81.338	-0.002	0.016	0.140	0.099	0.124	0.119	0.022	-1.820
NO3	QURE1	42.299	-72.335	-0.004	0.000	0.098	0.028	0.074	0.069	0.021	-5.377
NO3	QUVA1	33.294	-111.286	-0.002	0.002	0.091	0.047	0.075	0.073	0.013	-3.185
NO3	RAFA1	34.734	-120.007	-0.003	0.033	0.122	0.064	0.097	0.092	0.031	-3.376
NO3	REDW1	41.561	-124.084	-0.001	0.182	0.036	0.024	0.031	0.030	0.008	-2.145
NO3	ROMA1	32.941	-79.657	-0.003	0.000	0.157	0.095	0.129	0.125	0.023	-2.601
NO3	ROMO1	40.278	-105.546	0.000	0.506	0.024	0.021	0.022	0.022	0.006	-0.641
NO3	SACR1	33.46	-104.404	-0.002	0.028	0.140	0.101	0.122	0.120	0.027	-1.713
NO3	SAGA1	34.297	-118.028	-0.006	0.000	0.158	0.046	0.100	0.096	0.061	-6.137
NO3	SAGO1	34.194	-116.913	-0.005	0.000	0.094	0.003	0.069	0.046	0.053	-10.378
NO3	SAGU1	32.175	-110.737	-0.002	0.005	0.117	0.081	0.097	0.098	0.016	-1.922
NO3	SAMA1	30.093	-84.161	-0.002	0.004	0.127	0.081	0.104	0.103	0.018	-2.320
NO3	SAPE1	36.014	-106.845	-0.001	0.033	0.041	0.027	0.035	0.034	0.009	-2.348
NO3	SAWE1	32.249	-111.218	-0.001	0.272	0.133	0.110	0.123	0.120	0.020	-1.015
NO3	SAWT1	44.171	-114.927	0.000	0.039	0.019	0.011	0.016	0.015	0.004	-2.703
NO3	SENE1	46.289	-85.95	-0.001	0.012	0.039	0.012	0.029	0.025	0.011	-5.711
NO3	SEQU1	36.489	-118.829	-0.007	0.033	0.248	0.116	0.186	0.179	0.076	-3.902
NO3	SHEN1	38.523	-78.435	-0.003	0.001	0.127	0.071	0.106	0.098	0.033	-2.981
NO3	SHMI1	37.304	-107.484	0.000	0.842	0.035	0.037	0.036	0.036	0.003	0.229

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NO3	SHRO1	35.394	-82.774	-0.001	0.033	0.067	0.040	0.052	0.053	0.015	-2.781
NO3	SIAN1	34.091	-110.942	-0.003	0.000	0.065	0.011	0.048	0.042	0.014	-6.780
NO3	SIME1	55.326	-160.506	0.000	0.211	0.018	0.024	0.022	0.021	0.005	1.538
NO3	SIPS1	34.343	-87.339	-0.005	0.000	0.140	0.053	0.110	0.094	0.037	-4.825
NO3	SNPA1	47.422	-121.426	-0.002	0.001	0.062	0.025	0.040	0.043	0.016	-4.620
NO3	STAR1	45.225	-118.513	-0.001	0.007	0.038	0.019	0.030	0.028	0.009	-3.500
NO3	SULA1	45.86	-114	0.000	0.033	0.019	0.011	0.017	0.015	0.006	-2.751
NO3	SWAN1	35.451	-76.207	-0.001	0.221	0.136	0.119	0.130	0.127	0.023	-0.687
NO3	SYCA1	35.141	-111.969	-0.001	0.067	0.067	0.040	0.055	0.055	0.011	-2.592
NO3	TALL1	38.434	-96.56	-0.004	0.000	0.170	0.090	0.130	0.124	0.023	-3.395
NO3	THBA1	44.663	-105.287	0.000	0.190	0.043	0.036	0.040	0.039	0.005	-0.940
NO3	THRO1	46.895	-103.378	-0.001	0.196	0.051	0.034	0.047	0.042	0.012	-2.197
NO3	THSI1	44.291	-122.043	0.000	0.649	0.008	0.007	0.009	0.008	0.005	-0.822
NO3	TONT1	33.655	-111.107	-0.002	0.000	0.078	0.044	0.064	0.061	0.012	-2.948
NO3	TRCR1	62.315	-150.316	0.000	0.517	0.005	0.008	0.007	0.007	0.005	2.963
NO3	TRIN1	40.786	-122.805	-0.001	0.031	0.023	0.012	0.019	0.018	0.005	-3.340
NO3	ULBE1	47.582	-108.72	0.000	0.141	0.031	0.022	0.027	0.026	0.008	-1.873
NO3	UPBU1	35.826	-93.203	-0.004	0.002	0.169	0.085	0.120	0.125	0.033	-3.520
NO3	VIIS1	18.336	-64.796	0.000	0.622	0.120	0.115	0.117	0.118	0.010	-0.227
NO3	VILA1	40.969	-95.045	-0.009	0.000	0.268	0.102	0.191	0.172	0.063	-5.089
NO3	VOYA2	48.413	-92.829	-0.001	0.001	0.034	0.011	0.024	0.022	0.010	-5.405
NO3	WEMI1	37.659	-107.8	0.000	0.074	0.025	0.017	0.022	0.021	0.006	-1.920
NO3	WHIT1	33.469	-105.535	-0.001	0.037	0.043	0.029	0.037	0.035	0.010	-2.052
NO3	WHPA1	46.624	-121.388	0.000	0.278	0.008	0.003	0.007	0.006	0.004	-4.386
NO3	WHPE1	36.585	-105.452	0.000	0.272	0.029	0.025	0.025	0.027	0.005	-0.871
NO3	WHRI1	39.154	-106.821	0.000	0.421	0.026	0.022	0.025	0.024	0.007	-0.901
NO3	WICA1	43.558	-103.484	-0.001	0.002	0.046	0.034	0.043	0.040	0.010	-1.602
NO3	WIMO1	34.732	-98.713	-0.001	0.039	0.123	0.095	0.109	0.108	0.016	-1.336
NO3	YELL2	44.565	-110.4	0.000	0.115	0.031	0.025	0.029	0.028	0.008	-1.060
NO3	YOSE1	37.713	-119.706	-0.001	0.463	0.028	0.018	0.025	0.023	0.010	-2.511
NO3	ZICA1	37.198	-113.151	-0.001	0.000	0.047	0.036	0.043	0.041	0.008	-1.470
OC	ACAD1	44.377	-68.261	-0.007	0.000	0.325	0.200	0.279	0.262	0.050	-2.510
OC	AGTI1	33.464	-116.971	-0.008	0.120	0.420	0.270	0.370	0.345	0.098	-2.295
OC	BADL1	43.743	-101.941	-0.006	0.006	0.311	0.192	0.253	0.251	0.101	-2.494
OC	BALD1	34.058	-109.441	-0.006	0.000	0.229	0.120	0.170	0.172	0.034	-3.364
OC	BAND1	35.78	-106.266	-0.010	0.000	0.353	0.170	0.272	0.261	0.069	-3.688

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OC	BIBE1	29.303	-103.178	-0.001	0.559	0.236	0.215	0.235	0.225	0.044	-0.501
OC	BLIS1	38.976	-120.103	-0.003	0.172	0.174	0.124	0.156	0.150	0.057	-1.769
OC	BOAP1	33.869	-106.852	-0.009	0.000	0.369	0.202	0.286	0.286	0.057	-3.063
OC	BOND1	40.052	-88.373	-0.009	0.004	0.598	0.433	0.528	0.511	0.095	-1.692
OC	BOWA1	47.947	-91.495	-0.010	0.000	0.273	0.074	0.195	0.174	0.079	-6.016
OC	BRCA1	37.618	-112.174	-0.004	0.005	0.160	0.075	0.123	0.118	0.039	-3.780
OC	BRID1	42.975	-109.758	-0.004	0.014	0.129	0.044	0.089	0.086	0.042	-5.195
OC	BRIG1	39.465	-74.449	-0.011	0.006	0.613	0.406	0.511	0.504	0.099	-2.165
OC	BRMA1	44.107	-70.729	-0.009	0.006	0.422	0.258	0.352	0.353	0.052	-2.437
OC	CABA1	43.833	-70.064	-0.009	0.000	0.534	0.368	0.464	0.447	0.068	-1.948
OC	CABI1	47.955	-115.671	-0.001	0.600	0.131	0.116	0.125	0.123	0.054	-0.648
OC	CACO1	41.976	-70.024	-0.008	0.000	0.357	0.205	0.306	0.277	0.064	-2.900
OC	CACR1	34.454	-94.143	-0.019	0.002	0.664	0.295	0.523	0.470	0.145	-4.130
OC	CANY1	38.459	-109.821	-0.003	0.064	0.161	0.111	0.130	0.136	0.032	-1.930
OC	CAPI1	38.302	-111.293	-0.003	0.045	0.181	0.114	0.149	0.144	0.044	-2.427
OC	CEBL1	38.77	-99.763	-0.005	0.017	0.314	0.218	0.254	0.258	0.045	-1.955
OC	CHAS1	28.748	-82.555	-0.012	0.016	0.852	0.619	0.757	0.735	0.123	-1.667
OC	CHIR1	32.009	-109.389	-0.001	0.330	0.178	0.150	0.176	0.164	0.041	-0.883
OC	COHU1	34.785	-84.627	-0.020	0.000	0.732	0.350	0.556	0.521	0.134	-3.852
OC	CORI1	45.664	-121.001	-0.008	0.014	0.443	0.284	0.370	0.364	0.074	-2.302
OC	CRLA1	42.896	-122.136	-0.001	0.600	0.075	0.062	0.065	0.068	0.025	-0.976
OC	CRMO1	43.46	-113.555	-0.005	0.023	0.156	0.064	0.121	0.108	0.043	-4.490
OC	DENA1	63.723	-148.967	0.001	0.364	0.050	0.065	0.055	0.058	0.024	1.356
OC	DOME1	35.728	-118.138	-0.002	0.086	0.344	0.301	0.312	0.321	0.060	-0.697
OC	DOSO1	39.105	-79.426	-0.021	0.000	0.675	0.274	0.482	0.475	0.141	-4.447
OC	EGBE1	44.231	-79.783	-0.006	0.071	0.412	0.307	0.352	0.343	0.048	-1.610
OC	EVER1	25.391	-80.681	-0.009	0.001	0.433	0.255	0.342	0.339	0.081	-2.756
OC	FLAT1	47.773	-114.269	-0.003	0.161	0.167	0.108	0.146	0.133	0.047	-2.299
OC	FOPE1	48.308	-105.102	-0.006	0.001	0.312	0.205	0.252	0.250	0.037	-2.260
OC	FRRE1	39.706	-79.012	-0.013	0.000	0.617	0.375	0.479	0.470	0.075	-2.703
OC	GAMO1	46.826	-111.711	-0.003	0.221	0.088	0.041	0.073	0.063	0.031	-3.969
OC	GICL1	33.22	-108.235	-0.005	0.009	0.240	0.149	0.194	0.194	0.047	-2.475
OC	GLAC1	48.511	-113.997	-0.014	0.009	0.532	0.275	0.422	0.403	0.128	-3.359
OC	GRBA1	39.005	-114.216	-0.008	0.000	0.234	0.086	0.175	0.160	0.065	-4.867
OC	GRCA2	36.066	-112.154	-0.002	0.218	0.101	0.072	0.088	0.086	0.031	-1.762
OC	GRGU1	44.308	-71.218	-0.009	0.000	0.324	0.146	0.237	0.231	0.066	-4.059

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OC	GRR1	43.937	-91.405	-0.013	0.001	0.581	0.330	0.441	0.436	0.079	-3.030
OC	GRSA1	37.725	-105.519	-0.003	0.069	0.277	0.223	0.251	0.250	0.033	-1.135
OC	GRSM1	35.633	-83.942	-0.022	0.000	0.770	0.355	0.577	0.562	0.155	-3.882
OC	GUMO1	31.833	-104.809	-0.005	0.047	0.268	0.182	0.238	0.225	0.058	-2.002
OC	HAVO1	19.431	-155.258	0.001	0.600	-0.017	0.004	0.027	-0.006	0.085	-18.333
OC	HECA1	44.97	-116.844	-0.003	0.221	0.259	0.200	0.232	0.228	0.060	-1.360
OC	HEGL1	36.614	-92.922	-0.017	0.000	0.763	0.448	0.638	0.597	0.114	-2.782
OC	HOOV1	38.088	-119.177	0.000	0.910	0.073	0.067	0.071	0.070	0.034	-0.419
OC	IKBA1	34.34	-111.683	-0.004	0.002	0.312	0.235	0.272	0.273	0.055	-1.496
OC	ISLE1	47.46	-88.149	-0.003	0.052	0.153	0.104	0.127	0.128	0.034	-1.991
OC	JARB1	41.893	-115.426	-0.004	0.052	0.110	0.039	0.081	0.075	0.044	-5.025
OC	JARI1	37.627	-79.512	-0.017	0.003	0.878	0.563	0.702	0.713	0.134	-2.325
OC	JOSH1	34.07	-116.389	-0.008	0.003	0.311	0.166	0.237	0.238	0.057	-3.209
OC	KAIS1	37.221	-119.155	-0.002	0.570	0.109	0.080	0.104	0.093	0.040	-1.639
OC	KALM1	42.552	-124.059	-0.002	0.194	0.371	0.328	0.368	0.349	0.061	-0.641
OC	LABE1	41.712	-121.507	-0.003	0.194	0.174	0.124	0.162	0.149	0.053	-1.742
OC	LASU2	40.693	-92.006	-0.013	0.004	0.651	0.397	0.500	0.491	0.077	-2.722
OC	LAVO1	40.54	-121.577	-0.001	0.436	0.121	0.096	0.102	0.109	0.037	-1.203
OC	LIGO1	35.972	-81.933	-0.016	0.000	0.676	0.364	0.512	0.520	0.129	-3.163
OC	LOST1	48.642	-102.402	-0.009	0.000	0.363	0.195	0.276	0.279	0.066	-3.166
OC	MACA1	37.132	-86.148	-0.020	0.000	0.897	0.516	0.705	0.706	0.143	-2.834
OC	MAVI1	41.331	-70.785	-0.008	0.007	0.380	0.220	0.306	0.287	0.070	-2.938
OC	MEAD1	36.019	-114.068	-0.005	0.070	0.206	0.111	0.163	0.151	0.042	-3.302
OC	MELA1	48.487	-104.476	-0.004	0.004	0.244	0.164	0.213	0.204	0.050	-2.075
OC	MEVE1	37.198	-108.491	-0.006	0.000	0.211	0.102	0.179	0.156	0.061	-3.675
OC	MING1	36.972	-90.143	-0.016	0.005	0.878	0.582	0.746	0.699	0.179	-2.229
OC	MOHO1	45.289	-121.784	0.000	0.948	0.003	0.004	0.007	0.003	0.036	2.011
OC	MOMO1	41.821	-73.297	-0.010	0.000	0.426	0.230	0.328	0.318	0.064	-3.257
OC	MONT1	47.122	-113.154	-0.008	0.014	0.268	0.121	0.210	0.191	0.078	-4.060
OC	MOOS1	45.126	-67.266	-0.012	0.000	0.418	0.186	0.320	0.302	0.080	-4.048
OC	MORA1	46.758	-122.124	-0.003	0.173	0.188	0.135	0.158	0.162	0.048	-1.729
OC	MOZI1	40.538	-106.677	-0.004	0.033	0.130	0.059	0.094	0.092	0.032	-4.062
OC	NEBR1	41.889	-100.339	-0.003	0.138	0.235	0.183	0.207	0.205	0.030	-1.350
OC	NOAB1	44.745	-109.382	-0.006	0.009	0.110	-0.003	0.067	0.051	0.045	-11.682
OC	NOCA1	48.732	-121.065	-0.001	0.283	0.079	0.056	0.064	0.067	0.032	-1.859
OC	NOCH1	45.65	-106.557	-0.001	0.564	0.155	0.130	0.134	0.140	0.033	-0.930

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OC	OKEF1	30.74	-82.128	-0.016	0.000	0.919	0.608	0.809	0.764	0.137	-2.141
OC	OLYM1	48.007	-122.973	-0.009	0.037	0.228	0.062	0.168	0.136	0.078	-6.392
OC	ORPI1	31.951	-112.802	-0.005	0.118	0.260	0.169	0.224	0.207	0.071	-2.299
OC	PASA1	48.388	-119.927	-0.002	0.132	0.072	0.041	0.051	0.055	0.026	-2.972
OC	PEFO1	35.078	-109.769	-0.010	0.000	0.292	0.109	0.231	0.201	0.074	-4.818
OC	PENO1	44.948	-68.648	-0.007	0.043	0.497	0.363	0.398	0.409	0.052	-1.722
OC	PINN1	36.483	-121.157	-0.004	0.153	0.365	0.283	0.333	0.324	0.064	-1.328
OC	PITT1	40.465	-79.961	-0.018	0.000	1.009	0.658	0.811	0.796	0.121	-2.322
OC	PMRF1	44.528	-72.869	-0.011	0.000	0.474	0.274	0.357	0.369	0.070	-2.849
OC	PORE1	38.122	-122.909	0.001	0.897	0.084	0.094	0.089	0.089	0.035	0.608
OC	PRIS1	46.696	-68.033	-0.013	0.000	0.513	0.267	0.385	0.384	0.085	-3.374
OC	QUCI1	39.943	-81.338	-0.014	0.000	0.779	0.505	0.637	0.635	0.103	-2.273
OC	QURE1	42.299	-72.335	-0.013	0.003	0.541	0.293	0.423	0.437	0.069	-2.984
OC	QUVA1	33.294	-111.286	-0.009	0.003	0.404	0.233	0.341	0.332	0.052	-2.699
OC	RAFA1	34.734	-120.007	-0.003	0.270	0.239	0.181	0.213	0.210	0.061	-1.469
OC	REDW1	41.561	-124.084	-0.004	0.069	0.168	0.098	0.138	0.133	0.039	-2.779
OC	ROMA1	32.941	-79.657	-0.008	0.014	0.633	0.473	0.559	0.553	0.102	-1.522
OC	ROMO1	40.278	-105.546	-0.004	0.019	0.151	0.076	0.128	0.114	0.044	-3.463
OC	SACR1	33.46	-104.404	-0.005	0.006	0.379	0.278	0.319	0.326	0.046	-1.622
OC	SAGA1	34.297	-118.028	-0.008	0.001	0.221	0.067	0.161	0.136	0.071	-5.942
OC	SAGO1	34.194	-116.913	-0.009	0.000	0.252	0.088	0.202	0.170	0.071	-5.090
OC	SAGU1	32.175	-110.737	-0.006	0.028	0.375	0.255	0.335	0.312	0.062	-2.028
OC	SAMA1	30.093	-84.161	-0.010	0.005	0.675	0.486	0.578	0.575	0.086	-1.725
OC	SAPE1	36.014	-106.845	-0.002	0.054	0.128	0.081	0.102	0.103	0.029	-2.400
OC	SAWE1	32.249	-111.218	-0.008	0.006	0.455	0.303	0.371	0.371	0.061	-2.146
OC	SAWT1	44.171	-114.927	-0.012	0.004	0.471	0.250	0.346	0.355	0.102	-3.282
OC	SENE1	46.289	-85.95	-0.006	0.004	0.225	0.110	0.166	0.168	0.052	-3.594
OC	SEQU1	36.489	-118.829	-0.006	0.194	0.570	0.451	0.528	0.511	0.121	-1.233
OC	SHEN1	38.523	-78.435	-0.007	0.004	0.433	0.308	0.358	0.371	0.070	-1.774
OC	SHMI1	37.304	-107.484	-0.002	0.136	0.223	0.188	0.202	0.201	0.024	-0.907
OC	SHRO1	35.394	-82.774	-0.013	0.003	0.411	0.167	0.304	0.296	0.117	-4.343
OC	SIAN1	34.091	-110.942	-0.019	0.000	0.518	0.157	0.372	0.376	0.102	-5.050
OC	SIME1	55.326	-160.506	0.002	0.103	-0.015	0.030	0.005	0.010	0.030	23.871
OC	SIPS1	34.343	-87.339	-0.021	0.000	0.980	0.584	0.806	0.782	0.164	-2.669
OC	SNPA1	47.422	-121.426	-0.006	0.000	0.155	0.033	0.107	0.094	0.062	-6.804
OC	STAR1	45.225	-118.513	-0.008	0.011	0.213	0.062	0.177	0.138	0.124	-5.780

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OC	SULA1	45.86	-114	-0.006	0.000	0.145	0.023	0.090	0.081	0.042	-7.917
OC	SWAN1	35.451	-76.207	-0.002	0.649	0.443	0.407	0.398	0.424	0.103	-0.448
OC	SYCA1	35.141	-111.969	-0.004	0.400	0.343	0.268	0.327	0.311	0.066	-1.270
OC	TALL1	38.434	-96.56	-0.009	0.011	0.506	0.340	0.434	0.410	0.073	-2.138
OC	THBA1	44.663	-105.287	-0.004	0.020	0.282	0.201	0.230	0.231	0.036	-1.838
OC	THRO1	46.895	-103.378	-0.005	0.000	0.295	0.192	0.242	0.243	0.043	-2.229
OC	THSI1	44.291	-122.043	-0.001	0.299	0.060	0.035	0.051	0.047	0.026	-2.845
OC	TONT1	33.655	-111.107	-0.008	0.000	0.386	0.243	0.317	0.314	0.065	-2.387
OC	TRCR1	62.315	-150.316	0.002	0.103	0.027	0.066	0.052	0.049	0.025	4.274
OC	TRIN1	40.786	-122.805	-0.006	0.048	0.209	0.096	0.158	0.159	0.061	-3.746
OC	ULBE1	47.582	-108.72	-0.003	0.069	0.181	0.123	0.165	0.152	0.045	-2.024
OC	UPBU1	35.826	-93.203	-0.013	0.000	0.641	0.400	0.551	0.521	0.115	-2.439
OC	VIIS1	18.336	-64.796	0.004	0.011	-0.005	0.078	0.038	0.034	0.035	12.758
OC	VILA1	40.969	-95.045	-0.012	0.002	0.536	0.317	0.423	0.409	0.082	-2.811
OC	VOYA2	48.413	-92.829	-0.011	0.000	0.347	0.131	0.245	0.239	0.086	-4.765
OC	WEMI1	37.659	-107.8	-0.006	0.003	0.193	0.073	0.149	0.133	0.050	-4.760
OC	WHIT1	33.469	-105.535	-0.005	0.007	0.217	0.119	0.175	0.163	0.049	-3.166
OC	WHPA1	46.624	-121.388	-0.001	0.537	0.014	0.002	0.011	0.008	0.022	-8.048
OC	WHPE1	36.585	-105.452	-0.004	0.013	0.128	0.048	0.100	0.086	0.045	-4.923
OC	WHRI1	39.154	-106.821	-0.003	0.021	0.066	0.013	0.054	0.040	0.037	-7.001
OC	WICA1	43.558	-103.484	-0.005	0.000	0.243	0.140	0.197	0.192	0.052	-2.825
OC	WIMO1	34.732	-98.713	-0.009	0.006	0.515	0.343	0.436	0.424	0.083	-2.133
OC	YELL2	44.565	-110.4	-0.003	0.136	0.153	0.102	0.131	0.128	0.045	-2.094
OC	YOSE1	37.713	-119.706	0.003	0.243	0.156	0.210	0.174	0.183	0.061	1.551
OC	ZICA1	37.198	-113.151	-0.005	0.058	0.255	0.167	0.209	0.204	0.042	-2.268
EC	ACAD1	44.377	-68.261	-0.003	0.000	0.068	0.007	0.043	0.038	0.021	-8.668
EC	AGTI1	33.464	-116.971	-0.006	0.000	0.126	0.007	0.085	0.067	0.041	-9.354
EC	BADL1	43.743	-101.941	-0.002	0.000	0.060	0.017	0.037	0.038	0.017	-5.936
EC	BALD1	34.058	-109.441	-0.002	0.000	0.044	0.006	0.028	0.024	0.013	-8.195
EC	BAND1	35.78	-106.266	-0.003	0.000	0.074	0.013	0.049	0.044	0.021	-7.361
EC	BIBE1	29.303	-103.178	-0.001	0.173	0.041	0.029	0.035	0.035	0.010	-1.837
EC	BLIS1	38.976	-120.103	-0.002	0.002	0.036	0.004	0.024	0.021	0.016	-8.254
EC	BOAP1	33.869	-106.852	-0.002	0.000	0.068	0.031	0.051	0.049	0.017	-3.986
EC	BOND1	40.052	-88.373	-0.006	0.000	0.195	0.073	0.142	0.131	0.041	-4.901
EC	BOWA1	47.947	-91.495	-0.002	0.000	0.043	0.004	0.027	0.024	0.016	-8.713
EC	BRCA1	37.618	-112.174	-0.002	0.000	0.027	-0.001	0.016	0.013	0.010	-11.704



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EC	BRID1	42.975	-109.758	-0.001	0.002	0.018	0.000	0.011	0.009	0.007	-10.329
EC	BRIG1	39.465	-74.449	-0.007	0.000	0.173	0.037	0.106	0.102	0.048	-7.049
EC	BRMA1	44.107	-70.729	-0.005	0.000	0.102	0.016	0.068	0.066	0.023	-6.879
EC	CABA1	43.833	-70.064	-0.005	0.000	0.135	0.049	0.091	0.090	0.028	-5.048
EC	CABI1	47.955	-115.671	-0.001	0.003	0.022	0.002	0.016	0.012	0.009	-9.310
EC	CACO1	41.976	-70.024	-0.003	0.000	0.055	0.006	0.030	0.029	0.015	-8.853
EC	CACR1	34.454	-94.143	-0.005	0.000	0.128	0.037	0.091	0.081	0.038	-5.949
EC	CANY1	38.459	-109.821	-0.001	0.002	0.034	0.010	0.022	0.022	0.010	-5.738
EC	CAPI1	38.302	-111.293	-0.002	0.000	0.036	0.007	0.023	0.020	0.011	-7.882
EC	CEBL1	38.77	-99.763	-0.004	0.000	0.085	0.018	0.050	0.046	0.019	-7.628
EC	CHAS1	28.748	-82.555	-0.007	0.001	0.189	0.058	0.143	0.124	0.055	-5.597
EC	CHIR1	32.009	-109.389	-0.001	0.004	0.042	0.015	0.031	0.029	0.012	-5.009
EC	COHU1	34.785	-84.627	-0.005	0.000	0.158	0.055	0.110	0.101	0.041	-5.387
EC	CORI1	45.664	-121.001	-0.004	0.000	0.101	0.024	0.074	0.063	0.030	-6.456
EC	CRLA1	42.896	-122.136	-0.001	0.000	0.032	0.005	0.017	0.018	0.009	-8.197
EC	CRMO1	43.46	-113.555	-0.002	0.000	0.032	0.001	0.017	0.016	0.011	-10.710
EC	DENA1	63.723	-148.967	0.000	0.003	0.008	-0.001	0.003	0.004	0.004	-13.349
EC	DOME1	35.728	-118.138	-0.003	0.000	0.079	0.029	0.052	0.052	0.018	-5.056
EC	DOSO1	39.105	-79.426	-0.006	0.000	0.163	0.040	0.106	0.102	0.046	-6.340
EC	EGBE1	44.231	-79.783	-0.002	0.090	0.096	0.057	0.075	0.071	0.015	-2.874
EC	EVER1	25.391	-80.681	-0.001	0.014	0.044	0.016	0.030	0.030	0.018	-4.978
EC	FLAT1	47.773	-114.269	-0.001	0.026	0.028	0.005	0.017	0.015	0.009	-7.894
EC	FOPE1	48.308	-105.102	-0.001	0.039	0.044	0.024	0.033	0.033	0.009	-3.131
EC	FRRE1	39.706	-79.012	-0.007	0.000	0.215	0.075	0.138	0.130	0.041	-5.695
EC	GAMO1	46.826	-111.711	-0.001	0.015	0.012	0.002	0.007	0.006	0.006	-8.203
EC	GICL1	33.22	-108.235	-0.002	0.000	0.048	0.003	0.029	0.025	0.015	-9.262
EC	GLAC1	48.511	-113.997	-0.003	0.023	0.107	0.053	0.087	0.080	0.030	-3.562
EC	GRBA1	39.005	-114.216	-0.002	0.000	0.033	-0.002	0.022	0.015	0.013	-12.232
EC	GRCA2	36.066	-112.154	-0.002	0.000	0.031	0.001	0.018	0.016	0.011	-9.784
EC	GRGU1	44.308	-71.218	-0.003	0.000	0.071	0.017	0.047	0.043	0.019	-6.674
EC	GRR11	43.937	-91.405	-0.005	0.000	0.145	0.056	0.099	0.094	0.031	-5.034
EC	GRSA1	37.725	-105.519	-0.002	0.000	0.048	0.012	0.030	0.030	0.013	-6.412
EC	GRSM1	35.633	-83.942	-0.007	0.000	0.183	0.052	0.125	0.117	0.051	-5.879
EC	GUMO1	31.833	-104.809	0.000	0.697	0.036	0.030	0.036	0.033	0.015	-0.851
EC	HAVO1	19.431	-155.258	0.000	0.030	0.005	-0.002	0.001	0.002	0.004	-23.750
EC	HECA1	44.97	-116.844	-0.002	0.005	0.046	0.011	0.032	0.028	0.014	-6.599

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EC	HEGL1	36.614	-92.922	-0.005	0.000	0.168	0.072	0.127	0.118	0.035	-4.304
EC	HOOV1	38.088	-119.177	-0.001	0.004	0.017	0.002	0.009	0.009	0.005	-9.647
EC	IKBA1	34.34	-111.683	-0.002	0.000	0.054	0.016	0.041	0.035	0.019	-5.667
EC	ISLE1	47.46	-88.149	-0.001	0.006	0.029	0.008	0.021	0.018	0.011	-6.195
EC	JARB1	41.893	-115.426	-0.001	0.000	0.016	-0.001	0.009	0.007	0.006	-12.532
EC	JARI1	37.627	-79.512	-0.009	0.000	0.252	0.084	0.181	0.163	0.061	-5.401
EC	JOSH1	34.07	-116.389	-0.004	0.000	0.076	0.007	0.050	0.042	0.026	-8.717
EC	KAIS1	37.221	-119.155	-0.001	0.031	0.036	0.011	0.025	0.022	0.013	-6.015
EC	KALM1	42.552	-124.059	-0.001	0.000	0.043	0.016	0.032	0.030	0.013	-4.869
EC	LABEL	41.712	-121.507	-0.001	0.000	0.029	0.000	0.019	0.014	0.014	-10.449
EC	LASU2	40.693	-92.006	-0.004	0.026	0.145	0.078	0.113	0.102	0.031	-3.439
EC	LAVO1	40.54	-121.577	-0.001	0.000	0.025	0.006	0.015	0.015	0.007	-6.645
EC	LIGO1	35.972	-81.933	-0.006	0.000	0.164	0.044	0.115	0.104	0.050	-6.052
EC	LOST1	48.642	-102.402	0.000	0.948	0.063	0.063	0.062	0.063	0.011	0.017
EC	MACA1	37.132	-86.148	-0.007	0.000	0.233	0.096	0.171	0.165	0.054	-4.379
EC	MAVI1	41.331	-70.785	-0.003	0.000	0.064	0.013	0.036	0.034	0.015	-7.890
EC	MEAD1	36.019	-114.068	-0.002	0.003	0.051	0.008	0.028	0.026	0.014	-8.767
EC	MELA1	48.487	-104.476	-0.001	0.000	0.048	0.020	0.038	0.034	0.015	-4.308
EC	MEVE1	37.198	-108.491	-0.002	0.000	0.041	0.009	0.027	0.025	0.013	-6.631
EC	MING1	36.972	-90.143	-0.005	0.003	0.210	0.119	0.162	0.155	0.054	-3.067
EC	MOHO1	45.289	-121.784	-0.001	0.006	0.009	-0.001	0.005	0.004	0.005	-12.652
EC	MOMO1	41.821	-73.297	-0.004	0.000	0.115	0.033	0.076	0.070	0.027	-6.137
EC	MONT1	47.122	-113.154	-0.002	0.001	0.038	0.006	0.024	0.021	0.011	-7.887
EC	MOOS1	45.126	-67.266	-0.004	0.000	0.072	0.003	0.045	0.037	0.024	-9.776
EC	MORA1	46.758	-122.124	-0.002	0.004	0.039	0.005	0.027	0.022	0.014	-7.949
EC	MOZI1	40.538	-106.677	-0.001	0.003	0.025	0.001	0.014	0.012	0.008	-10.109
EC	NEBR1	41.889	-100.339	-0.002	0.000	0.060	0.019	0.038	0.036	0.016	-6.040
EC	NOAB1	44.745	-109.382	-0.001	0.001	0.014	-0.003	0.007	0.005	0.007	-16.506
EC	NOCA1	48.732	-121.065	-0.001	0.000	0.014	0.001	0.007	0.007	0.005	-9.351
EC	NOCH1	45.65	-106.557	-0.001	0.138	0.027	0.013	0.019	0.019	0.008	-3.995
EC	OKEF1	30.74	-82.128	-0.005	0.000	0.142	0.046	0.109	0.094	0.043	-5.379
EC	OLYM1	48.007	-122.973	-0.002	0.001	0.043	0.001	0.024	0.020	0.014	-11.209
EC	ORPI1	31.951	-112.802	-0.001	0.005	0.038	0.018	0.026	0.026	0.008	-4.151
EC	PASA1	48.388	-119.927	-0.001	0.000	0.010	0.000	0.006	0.005	0.005	-12.128
EC	PEFO1	35.078	-109.769	-0.004	0.000	0.097	0.019	0.068	0.058	0.033	-7.142
EC	PENO1	44.948	-68.648	-0.004	0.005	0.125	0.040	0.074	0.069	0.024	-6.432

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EC	PINN1	36.483	-121.157	-0.003	0.000	0.067	0.008	0.047	0.038	0.023	-8.407
EC	PITT1	40.465	-79.961	-0.016	0.000	0.468	0.162	0.312	0.283	0.100	-5.691
EC	PMRF1	44.528	-72.869	-0.004	0.000	0.106	0.034	0.070	0.068	0.023	-5.530
EC	PORE1	38.122	-122.909	-0.001	0.000	0.014	-0.003	0.006	0.005	0.007	-16.687
EC	PRIS1	46.696	-68.033	-0.005	0.000	0.131	0.037	0.088	0.081	0.033	-6.097
EC	QUCI1	39.943	-81.338	-0.006	0.000	0.233	0.114	0.179	0.170	0.044	-3.678
EC	QURE1	42.299	-72.335	-0.006	0.000	0.137	0.031	0.096	0.092	0.028	-6.061
EC	QUVA1	33.294	-111.286	-0.003	0.004	0.085	0.025	0.062	0.060	0.019	-5.223
EC	RAFA1	34.734	-120.007	-0.002	0.000	0.042	0.002	0.027	0.022	0.018	-9.603
EC	REDW1	41.561	-124.084	-0.001	0.000	0.019	0.003	0.010	0.011	0.007	-7.741
EC	ROMA1	32.941	-79.657	-0.003	0.001	0.095	0.033	0.073	0.064	0.029	-5.127
EC	ROMO1	40.278	-105.546	-0.001	0.060	0.024	0.011	0.018	0.017	0.007	-3.866
EC	SACR1	33.46	-104.404	-0.002	0.028	0.069	0.034	0.055	0.050	0.017	-3.694
EC	SAGA1	34.297	-118.028	-0.003	0.012	0.054	0.007	0.031	0.028	0.017	-8.942
EC	SAGO1	34.194	-116.913	-0.004	0.000	0.072	-0.009	0.048	0.031	0.033	-13.697
EC	SAGU1	32.175	-110.737	-0.003	0.003	0.095	0.035	0.073	0.064	0.027	-5.020
EC	SAMA1	30.093	-84.161	-0.005	0.001	0.110	0.019	0.072	0.062	0.033	-7.648
EC	SAPE1	36.014	-106.845	-0.001	0.000	0.033	0.005	0.019	0.018	0.009	-8.294
EC	SAWE1	32.249	-111.218	-0.004	0.002	0.105	0.037	0.078	0.067	0.025	-5.333
EC	SAWT1	44.171	-114.927	-0.002	0.000	0.052	0.008	0.031	0.029	0.016	-8.112
EC	SENE1	46.289	-85.95	-0.002	0.002	0.039	0.010	0.027	0.024	0.013	-6.189
EC	SEQU1	36.489	-118.829	-0.005	0.000	0.113	0.027	0.089	0.070	0.039	-6.498
EC	SHEN1	38.523	-78.435	-0.005	0.000	0.129	0.040	0.092	0.084	0.032	-5.497
EC	SHMI1	37.304	-107.484	-0.002	0.020	0.059	0.016	0.032	0.032	0.013	-6.999
EC	SHRO1	35.394	-82.774	-0.003	0.000	0.078	0.016	0.053	0.049	0.027	-6.706
EC	SIAN1	34.091	-110.942	-0.004	0.000	0.086	0.018	0.060	0.059	0.022	-6.036
EC	SIME1	55.326	-160.506	0.000	0.176	0.006	-0.001	0.002	0.002	0.004	-15.646
EC	SIPS1	34.343	-87.339	-0.008	0.000	0.223	0.070	0.165	0.146	0.066	-5.491
EC	SNPA1	47.422	-121.426	-0.003	0.000	0.060	-0.003	0.035	0.029	0.021	-11.525
EC	STAR1	45.225	-118.513	-0.002	0.000	0.029	-0.004	0.023	0.013	0.025	-13.882
EC	SULA1	45.86	-114	-0.001	0.000	0.021	-0.003	0.010	0.008	0.009	-15.281
EC	SWAN1	35.451	-76.207	-0.002	0.012	0.052	0.023	0.040	0.036	0.016	-4.220
EC	SYCA1	35.141	-111.969	-0.003	0.026	0.093	0.028	0.060	0.065	0.022	-5.210
EC	TALL1	38.434	-96.56	-0.004	0.000	0.127	0.053	0.090	0.084	0.025	-4.681
EC	THBA1	44.663	-105.287	-0.003	0.012	0.064	0.017	0.039	0.034	0.016	-7.353
EC	THRO1	46.895	-103.378	-0.002	0.000	0.069	0.031	0.054	0.050	0.018	-4.042

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EC	THSI1	44.291	-122.043	0.000	0.002	0.010	0.001	0.007	0.005	0.006	-8.449
EC	TONT1	33.655	-111.107	-0.002	0.000	0.074	0.028	0.054	0.051	0.019	-4.804
EC	TRCR1	62.315	-150.316	-0.001	0.000	0.017	0.002	0.008	0.009	0.006	-9.216
EC	TRIN1	40.786	-122.805	-0.001	0.000	0.027	0.006	0.019	0.018	0.008	-6.049
EC	ULBE1	47.582	-108.72	-0.001	0.000	0.036	0.009	0.024	0.022	0.011	-6.251
EC	UPBU1	35.826	-93.203	-0.004	0.001	0.137	0.055	0.103	0.096	0.034	-4.517
EC	VIIS1	18.336	-64.796	-0.001	0.013	0.014	-0.006	0.006	0.005	0.007	-22.092
EC	VILA1	40.969	-95.045	-0.004	0.000	0.148	0.070	0.106	0.103	0.025	-4.015
EC	VOYA2	48.413	-92.829	-0.002	0.000	0.049	0.005	0.032	0.027	0.017	-8.561
EC	WEMI1	37.659	-107.8	-0.003	0.000	0.054	-0.005	0.034	0.025	0.020	-12.650
EC	WHIT1	33.469	-105.535	-0.001	0.018	0.036	0.013	0.027	0.024	0.012	-5.152
EC	WHPA1	46.624	-121.388	0.000	0.072	0.003	-0.001	0.003	0.001	0.005	-24.412
EC	WHPE1	36.585	-105.452	-0.001	0.000	0.031	0.004	0.018	0.017	0.008	-8.649
EC	WHRI1	39.154	-106.821	-0.001	0.000	0.027	0.000	0.017	0.014	0.010	-10.451
EC	WICA1	43.558	-103.484	-0.002	0.000	0.056	0.014	0.038	0.035	0.016	-6.337
EC	WIMO1	34.732	-98.713	-0.003	0.006	0.106	0.049	0.073	0.076	0.026	-3.968
EC	YELL2	44.565	-110.4	-0.001	0.000	0.022	0.003	0.015	0.012	0.008	-8.098
EC	YOSE1	37.713	-119.706	-0.001	0.038	0.031	0.012	0.024	0.021	0.011	-4.660
EC	ZICA1	37.198	-113.151	-0.002	0.000	0.055	0.022	0.036	0.036	0.015	-4.758
Fine Dust	ACAD1	44.377	-68.261	-0.002	0.002	0.057	0.025	0.041	0.041	0.016	-4.009
Fine Dust	AGTI1	33.464	-116.971	-0.004	0.115	0.215	0.135	0.178	0.173	0.052	-2.459
Fine Dust	BADL1	43.743	-101.941	-0.006	0.000	0.226	0.118	0.173	0.172	0.044	-3.289
Fine Dust	BALD1	34.058	-109.441	-0.004	0.016	0.146	0.070	0.117	0.106	0.045	-3.759
Fine Dust	BAND1	35.78	-106.266	-0.003	0.016	0.165	0.107	0.142	0.136	0.035	-2.238
Fine Dust	BIBE1	29.303	-103.178	-0.006	0.038	0.286	0.163	0.229	0.225	0.079	-2.877
Fine Dust	BLIS1	38.976	-120.103	-0.002	0.006	0.083	0.039	0.065	0.063	0.020	-3.720
Fine Dust	BOAP1	33.869	-106.852	-0.001	0.697	0.244	0.220	0.243	0.232	0.080	-0.551
Fine Dust	BOND1	40.052	-88.373	-0.009	0.000	0.315	0.137	0.193	0.221	0.070	-4.248
Fine Dust	BOWA1	47.947	-91.495	-0.004	0.000	0.087	0.012	0.051	0.049	0.026	-7.974
Fine Dust	BRCA1	37.618	-112.174	-0.003	0.014	0.101	0.052	0.078	0.076	0.027	-3.382
Fine Dust	BRID1	42.975	-109.758	-0.002	0.000	0.067	0.023	0.050	0.045	0.020	-5.221
Fine Dust	BRIG1	39.465	-74.449	-0.007	0.000	0.194	0.066	0.140	0.130	0.050	-5.156
Fine Dust	BRMA1	44.107	-70.729	-0.001	0.102	0.050	0.033	0.048	0.043	0.015	-2.055
Fine Dust	CABA1	43.833	-70.064	-0.002	0.028	0.071	0.041	0.055	0.055	0.016	-2.850
Fine Dust	CABI1	47.955	-115.671	-0.002	0.002	0.067	0.025	0.045	0.045	0.019	-4.892
Fine Dust	CACO1	41.976	-70.024	-0.002	0.004	0.079	0.046	0.067	0.062	0.015	-2.807

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Fine Dust	CACR1	34.454	-94.143	-0.010	0.000	0.247	0.061	0.143	0.149	0.062	-6.557
Fine Dust	CANY1	38.459	-109.821	-0.003	0.060	0.139	0.085	0.116	0.112	0.037	-2.539
Fine Dust	CAP11	38.302	-111.293	-0.004	0.006	0.149	0.077	0.111	0.109	0.031	-3.484
Fine Dust	CEBL1	38.77	-99.763	-0.006	0.048	0.256	0.139	0.205	0.188	0.065	-3.282
Fine Dust	CHAS1	28.748	-82.555	-0.008	0.000	0.236	0.076	0.165	0.148	0.055	-5.726
Fine Dust	CHIR1	32.009	-109.389	-0.004	0.060	0.214	0.147	0.199	0.181	0.067	-1.944
Fine Dust	COHU1	34.785	-84.627	-0.008	0.000	0.187	0.038	0.118	0.105	0.061	-7.445
Fine Dust	COR11	45.664	-121.001	-0.003	0.086	0.198	0.138	0.171	0.167	0.062	-1.905
Fine Dust	CRLA1	42.896	-122.136	-0.001	0.185	0.044	0.027	0.035	0.035	0.012	-2.462
Fine Dust	CRMO1	43.46	-113.555	-0.003	0.000	0.097	0.036	0.064	0.067	0.021	-4.797
Fine Dust	DENA1	63.723	-148.967	-0.001	0.000	0.032	0.007	0.024	0.019	0.014	-6.765
Fine Dust	DOME1	35.728	-118.138	-0.001	0.278	0.119	0.092	0.113	0.105	0.045	-1.338
Fine Dust	DOSO1	39.105	-79.426	-0.005	0.002	0.132	0.031	0.099	0.082	0.053	-6.495
Fine Dust	EGBE1	44.231	-79.783	-0.003	0.033	0.103	0.043	0.067	0.063	0.021	-4.991
Fine Dust	EVER1	25.391	-80.681	-0.003	0.000	0.126	0.074	0.101	0.099	0.023	-2.767
Fine Dust	FLAT1	47.773	-114.269	-0.002	0.001	0.046	0.016	0.034	0.029	0.015	-5.710
Fine Dust	FOPE1	48.308	-105.102	-0.008	0.002	0.209	0.048	0.129	0.116	0.062	-7.328
Fine Dust	FRRE1	39.706	-79.012	-0.009	0.002	0.218	0.052	0.133	0.117	0.061	-7.459
Fine Dust	GAMO1	46.826	-111.711	-0.002	0.000	0.058	0.015	0.039	0.036	0.015	-6.168
Fine Dust	GICL1	33.22	-108.235	-0.002	0.105	0.137	0.095	0.123	0.116	0.036	-1.908
Fine Dust	GLAC1	48.511	-113.997	-0.004	0.002	0.111	0.043	0.089	0.077	0.029	-4.606
Fine Dust	GRBA1	39.005	-114.216	-0.002	0.016	0.099	0.063	0.076	0.081	0.023	-2.312
Fine Dust	GRCA2	36.066	-112.154	-0.001	0.516	0.105	0.091	0.100	0.098	0.027	-0.716
Fine Dust	GRGU1	44.308	-71.218	-0.001	0.011	0.043	0.021	0.037	0.031	0.015	-3.744
Fine Dust	GRR11	43.937	-91.405	-0.008	0.000	0.188	0.044	0.118	0.105	0.045	-7.226
Fine Dust	GRSA1	37.725	-105.519	-0.003	0.105	0.192	0.129	0.165	0.160	0.057	-2.082
Fine Dust	GRSM1	35.633	-83.942	-0.007	0.004	0.158	0.027	0.108	0.093	0.061	-7.491
Fine Dust	GUMO1	31.833	-104.809	0.007	0.069	0.237	0.362	0.318	0.300	0.136	2.205
Fine Dust	HAVO1	19.431	-155.258	-0.001	0.001	0.026	0.006	0.018	0.016	0.008	-6.804
Fine Dust	HECA1	44.97	-116.844	-0.003	0.000	0.097	0.033	0.059	0.063	0.022	-5.360
Fine Dust	HEGL1	36.614	-92.922	-0.010	0.000	0.281	0.100	0.174	0.186	0.066	-5.138
Fine Dust	HOOV1	38.088	-119.177	0.002	0.306	0.074	0.110	0.097	0.094	0.032	1.985
Fine Dust	IKBA1	34.34	-111.683	0.000	0.897	0.185	0.185	0.222	0.185	0.078	-0.015
Fine Dust	ISLE1	47.46	-88.149	-0.002	0.000	0.082	0.036	0.055	0.059	0.017	-4.142
Fine Dust	JARB1	41.893	-115.426	-0.002	0.009	0.077	0.041	0.063	0.059	0.019	-3.221
Fine Dust	JARI1	37.627	-79.512	-0.007	0.004	0.202	0.078	0.150	0.137	0.060	-4.781

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Fine Dust	JOSH1	34.07	-116.389	-0.003	0.153	0.215	0.150	0.208	0.182	0.058	-1.863
Fine Dust	KAIS1	37.221	-119.155	-0.002	0.009	0.085	0.038	0.057	0.059	0.019	-4.185
Fine Dust	KALM1	42.552	-124.059	-0.001	0.000	0.033	0.013	0.025	0.023	0.010	-4.515
Fine Dust	LABE1	41.712	-121.507	-0.002	0.001	0.057	0.018	0.038	0.037	0.020	-5.584
Fine Dust	LASU2	40.693	-92.006	-0.009	0.000	0.248	0.073	0.163	0.138	0.051	-6.706
Fine Dust	LAVO1	40.54	-121.577	-0.002	0.002	0.055	0.017	0.043	0.036	0.018	-5.503
Fine Dust	LIGO1	35.972	-81.933	-0.006	0.000	0.150	0.034	0.097	0.092	0.050	-6.612
Fine Dust	LOST1	48.642	-102.402	-0.005	0.001	0.213	0.111	0.150	0.162	0.045	-3.342
Fine Dust	MACA1	37.132	-86.148	-0.010	0.000	0.301	0.112	0.194	0.206	0.080	-4.811
Fine Dust	MAVI1	41.331	-70.785	-0.002	0.021	0.096	0.053	0.077	0.071	0.018	-3.182
Fine Dust	MEAD1	36.019	-114.068	-0.006	0.323	0.256	0.145	0.240	0.192	0.107	-3.060
Fine Dust	MELA1	48.487	-104.476	-0.003	0.006	0.166	0.106	0.150	0.136	0.041	-2.316
Fine Dust	MEVE1	37.198	-108.491	-0.006	0.001	0.188	0.079	0.143	0.133	0.057	-4.300
Fine Dust	MING1	36.972	-90.143	-0.011	0.003	0.368	0.163	0.231	0.260	0.084	-4.152
Fine Dust	MOHO1	45.289	-121.784	-0.001	0.016	0.022	0.009	0.021	0.016	0.014	-4.580
Fine Dust	MOMO1	41.821	-73.297	-0.004	0.000	0.092	0.021	0.064	0.053	0.025	-7.114
Fine Dust	MONT1	47.122	-113.154	-0.002	0.000	0.053	0.011	0.036	0.031	0.019	-7.141
Fine Dust	MOOS1	45.126	-67.266	-0.003	0.000	0.067	0.015	0.051	0.041	0.021	-6.597
Fine Dust	MORA1	46.758	-122.124	-0.001	0.002	0.027	0.007	0.021	0.017	0.012	-6.396
Fine Dust	MOZI1	40.538	-106.677	-0.003	0.000	0.083	0.025	0.051	0.052	0.022	-5.863
Fine Dust	NEBR1	41.889	-100.339	-0.008	0.000	0.265	0.104	0.158	0.167	0.053	-5.064
Fine Dust	NOAB1	44.745	-109.382	-0.002	0.000	0.085	0.037	0.058	0.060	0.017	-4.159
Fine Dust	NOCA1	48.732	-121.065	-0.001	0.000	0.023	0.002	0.017	0.012	0.011	-9.198
Fine Dust	NOCH1	45.65	-106.557	-0.004	0.005	0.154	0.078	0.107	0.110	0.027	-3.658
Fine Dust	OKEF1	30.74	-82.128	-0.005	0.001	0.178	0.084	0.146	0.131	0.055	-3.790
Fine Dust	OLYM1	48.007	-122.973	-0.001	0.025	0.025	0.005	0.017	0.014	0.009	-7.235
Fine Dust	ORPI1	31.951	-112.802	-0.003	0.805	0.420	0.357	0.392	0.384	0.123	-0.864
Fine Dust	PASA1	48.388	-119.927	-0.001	0.002	0.034	0.009	0.025	0.021	0.012	-6.108
Fine Dust	PEFO1	35.078	-109.769	-0.004	0.023	0.236	0.169	0.222	0.203	0.069	-1.747
Fine Dust	PENO1	44.948	-68.648	-0.004	0.007	0.115	0.040	0.072	0.066	0.022	-6.070
Fine Dust	PINN1	36.483	-121.157	-0.002	0.019	0.104	0.075	0.088	0.089	0.017	-1.716
Fine Dust	PMRF1	44.528	-72.869	-0.002	0.000	0.068	0.025	0.048	0.045	0.019	-5.012
Fine Dust	PORE1	38.122	-122.909	-0.002	0.002	0.068	0.029	0.050	0.049	0.016	-4.196
Fine Dust	PRIS1	46.696	-68.033	-0.006	0.000	0.160	0.047	0.111	0.101	0.039	-5.904
Fine Dust	QUCI1	39.943	-81.338	-0.008	0.011	0.251	0.105	0.176	0.174	0.067	-4.429
Fine Dust	QURE1	42.299	-72.335	-0.002	0.083	0.085	0.041	0.067	0.066	0.025	-3.466

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Fine Dust	QUVA1	33.294	-111.286	-0.009	0.102	0.425	0.247	0.396	0.350	0.129	-2.667
Fine Dust	RAFA1	34.734	-120.007	-0.002	0.092	0.113	0.081	0.109	0.097	0.034	-1.777
Fine Dust	REDW1	41.561	-124.084	-0.001	0.044	0.029	0.016	0.024	0.022	0.009	-2.929
Fine Dust	ROMA1	32.941	-79.657	-0.002	0.136	0.140	0.093	0.128	0.116	0.045	-2.099
Fine Dust	ROMO1	40.278	-105.546	-0.003	0.027	0.128	0.073	0.095	0.100	0.034	-2.884
Fine Dust	SACR1	33.46	-104.404	-0.001	0.753	0.286	0.274	0.306	0.279	0.110	-0.217
Fine Dust	SAGA1	34.297	-118.028	-0.005	0.019	0.172	0.086	0.129	0.124	0.042	-3.629
Fine Dust	SAGO1	34.194	-116.913	-0.004	0.004	0.159	0.080	0.124	0.120	0.036	-3.470
Fine Dust	SAGU1	32.175	-110.737	-0.022	0.005	0.676	0.260	0.490	0.457	0.175	-4.791
Fine Dust	SAMA1	30.093	-84.161	-0.006	0.006	0.185	0.064	0.133	0.121	0.051	-5.242
Fine Dust	SAPE1	36.014	-106.845	-0.003	0.023	0.128	0.080	0.116	0.103	0.057	-2.438
Fine Dust	SAWE1	32.249	-111.218	-0.024	0.075	0.956	0.505	0.774	0.707	0.289	-3.359
Fine Dust	SAWT1	44.171	-114.927	-0.003	0.000	0.072	0.021	0.051	0.047	0.020	-5.726
Fine Dust	SENE1	46.289	-85.95	-0.003	0.000	0.076	0.026	0.047	0.051	0.020	-5.125
Fine Dust	SEQU1	36.489	-118.829	-0.003	0.014	0.127	0.076	0.097	0.102	0.023	-2.633
Fine Dust	SHEN1	38.523	-78.435	-0.004	0.008	0.111	0.028	0.079	0.070	0.041	-6.269
Fine Dust	SHMI1	37.304	-107.484	-0.004	0.102	0.170	0.102	0.126	0.127	0.037	-2.835
Fine Dust	SHRO1	35.394	-82.774	-0.006	0.000	0.114	0.009	0.068	0.061	0.041	-8.997
Fine Dust	SIAN1	34.091	-110.942	-0.005	0.151	0.216	0.115	0.180	0.179	0.051	-2.965
Fine Dust	SIME1	55.326	-160.506	-0.001	0.025	0.029	0.018	0.022	0.023	0.005	-2.530
Fine Dust	SIPS1	34.343	-87.339	-0.011	0.000	0.280	0.080	0.191	0.180	0.074	-5.851
Fine Dust	SNPA1	47.422	-121.426	-0.001	0.005	0.028	0.008	0.019	0.018	0.011	-5.702
Fine Dust	STAR1	45.225	-118.513	-0.002	0.000	0.062	0.018	0.039	0.040	0.015	-5.702
Fine Dust	SULA1	45.86	-114	-0.003	0.000	0.062	0.011	0.040	0.038	0.020	-7.074
Fine Dust	SWAN1	35.451	-76.207	0.000	0.850	0.087	0.081	0.094	0.084	0.032	-0.398
Fine Dust	SYCA1	35.141	-111.969	0.003	0.586	0.279	0.339	0.337	0.305	0.151	1.034
Fine Dust	TALL1	38.434	-96.56	-0.009	0.000	0.314	0.135	0.213	0.211	0.069	-4.464
Fine Dust	THBA1	44.663	-105.287	-0.006	0.012	0.243	0.121	0.199	0.170	0.088	-3.786
Fine Dust	THRO1	46.895	-103.378	-0.008	0.000	0.226	0.074	0.148	0.150	0.052	-5.312
Fine Dust	THSI1	44.291	-122.043	-0.001	0.005	0.018	0.007	0.016	0.012	0.010	-4.686
Fine Dust	TONT1	33.655	-111.107	-0.008	0.014	0.312	0.165	0.256	0.239	0.084	-3.239
Fine Dust	TRCR1	62.315	-150.316	-0.001	0.011	0.029	0.009	0.020	0.018	0.011	-5.807
Fine Dust	TRIN1	40.786	-122.805	-0.001	0.126	0.027	0.017	0.026	0.023	0.011	-2.277
Fine Dust	ULBE1	47.582	-108.72	-0.005	0.000	0.137	0.050	0.090	0.094	0.031	-4.879
Fine Dust	UPBU1	35.826	-93.203	-0.008	0.000	0.246	0.097	0.144	0.171	0.057	-4.586
Fine Dust	VIIS1	18.336	-64.796	0.000	0.934	0.076	0.074	0.072	0.075	0.017	-0.108

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Fine Dust	VILA1	40.969	-95.045	-0.011	0.000	0.335	0.132	0.192	0.218	0.066	-4.924
Fine Dust	VOYA2	48.413	-92.829	-0.003	0.000	0.064	0.016	0.046	0.040	0.020	-6.274
Fine Dust	WEMI1	37.659	-107.8	-0.002	0.027	0.126	0.088	0.110	0.107	0.024	-1.842
Fine Dust	WHIT1	33.469	-105.535	-0.002	0.520	0.174	0.143	0.160	0.157	0.049	-1.059
Fine Dust	WHPA1	46.624	-121.388	-0.001	0.006	0.017	0.001	0.011	0.009	0.010	-9.337
Fine Dust	WHPE1	36.585	-105.452	0.000	0.742	0.101	0.095	0.092	0.098	0.023	-0.337
Fine Dust	WHRI1	39.154	-106.821	-0.001	0.119	0.088	0.067	0.075	0.077	0.019	-1.462
Fine Dust	WICA1	43.558	-103.484	-0.004	0.001	0.166	0.087	0.129	0.127	0.032	-3.275
Fine Dust	WIMO1	34.732	-98.713	-0.003	0.064	0.241	0.175	0.199	0.207	0.048	-1.674
Fine Dust	YELL2	44.565	-110.4	-0.002	0.000	0.053	0.016	0.036	0.034	0.016	-5.692
Fine Dust	YOSE1	37.713	-119.706	-0.002	0.002	0.078	0.039	0.061	0.059	0.019	-3.455
Fine Dust	ZICA1	37.198	-113.151	0.003	0.217	0.128	0.179	0.176	0.157	0.052	1.720
FM	ACAD1	44.377	-68.261	-0.042	0.000	1.862	1.070	1.448	1.466	0.300	-2.843
FM	AGTI1	33.464	-116.971	-0.028	0.033	2.101	1.562	1.837	1.817	0.409	-1.559
FM	BADL1	43.743	-101.941	-0.017	0.004	1.391	1.066	1.265	1.228	0.171	-1.391
FM	BALD1	34.058	-109.441	-0.014	0.006	1.017	0.742	0.888	0.872	0.177	-1.660
FM	BAND1	35.78	-106.266	-0.024	0.001	1.437	0.986	1.256	1.212	0.196	-1.961
FM	BIBE1	29.303	-103.178	-0.033	0.044	2.164	1.544	1.885	1.854	0.415	-1.760
FM	BLIS1	38.976	-120.103	-0.014	0.039	0.709	0.443	0.607	0.583	0.148	-2.399
FM	BOAP1	33.869	-106.852	-0.025	0.027	1.814	1.333	1.610	1.573	0.305	-1.609
FM	BOND1	40.052	-88.373	-0.118	0.000	4.989	2.747	3.747	3.809	0.772	-3.098
FM	BOWA1	47.947	-91.495	-0.040	0.000	1.467	0.715	1.168	1.091	0.321	-3.625
FM	BRCA1	37.618	-112.174	-0.008	0.105	0.632	0.480	0.569	0.556	0.114	-1.442
FM	BRID1	42.975	-109.758	-0.012	0.002	0.617	0.397	0.491	0.507	0.106	-2.277
FM	BRIG1	39.465	-74.449	-0.115	0.000	4.414	2.228	3.377	3.321	0.726	-3.464
FM	BRMA1	44.107	-70.729	-0.046	0.012	2.044	1.165	1.691	1.674	0.286	-2.764
FM	CABA1	43.833	-70.064	-0.045	0.004	2.442	1.588	1.946	1.992	0.355	-2.256
FM	CABI1	47.955	-115.671	-0.017	0.054	0.840	0.517	0.658	0.670	0.162	-2.540
FM	CACO1	41.976	-70.024	-0.053	0.000	2.942	1.941	2.427	2.415	0.340	-2.182
FM	CACR1	34.454	-94.143	-0.082	0.000	3.322	1.760	2.506	2.500	0.575	-3.289
FM	CANY1	38.459	-109.821	-0.018	0.005	1.238	0.894	1.010	1.066	0.187	-1.695
FM	CAPI1	38.302	-111.293	-0.013	0.006	0.937	0.693	0.833	0.803	0.131	-1.599
FM	CEBL1	38.77	-99.763	-0.035	0.039	2.223	1.550	1.786	1.833	0.344	-1.933
FM	CHAS1	28.748	-82.555	-0.123	0.000	5.537	3.197	4.305	4.244	0.702	-2.901
FM	CHIR1	32.009	-109.389	-0.023	0.000	1.502	1.058	1.279	1.280	0.187	-1.827
FM	COHU1	34.785	-84.627	-0.133	0.000	4.327	1.791	2.726	2.925	0.801	-4.563



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FM	CORI1	45.664	-121.001	-0.041	0.019	2.161	1.379	1.742	1.749	0.373	-2.355
FM	CRLA1	42.896	-122.136	-0.003	0.240	0.379	0.329	0.360	0.352	0.077	-0.746
FM	CRMO1	43.46	-113.555	-0.017	0.000	0.875	0.549	0.713	0.712	0.150	-2.412
FM	DENA1	63.723	-148.967	-0.001	0.897	0.275	0.252	0.255	0.263	0.082	-0.453
FM	DOME1	35.728	-118.138	-0.008	0.421	1.266	1.118	1.186	1.188	0.203	-0.658
FM	DOSO1	39.105	-79.426	-0.138	0.000	3.906	1.286	2.666	2.596	0.886	-5.313
FM	EGBE1	44.231	-79.783	-0.025	0.250	1.972	1.506	1.709	1.666	0.287	-1.472
FM	EVER1	25.391	-80.681	-0.039	0.000	3.716	2.971	3.264	3.324	0.294	-1.179
FM	FLAT1	47.773	-114.269	-0.014	0.013	0.741	0.470	0.580	0.584	0.101	-2.444
FM	FOPE1	48.308	-105.102	-0.031	0.000	1.655	1.072	1.282	1.317	0.183	-2.330
FM	FRRE1	39.706	-79.012	-0.150	0.000	4.768	1.920	3.107	3.044	0.748	-4.923
FM	GAMO1	46.826	-111.711	-0.013	0.003	0.474	0.233	0.379	0.353	0.093	-3.600
FM	GICL1	33.22	-108.235	-0.024	0.000	1.253	0.794	1.021	1.024	0.170	-2.361
FM	GLAC1	48.511	-113.997	-0.034	0.008	1.642	0.991	1.379	1.316	0.291	-2.605
FM	GRBA1	39.005	-114.216	-0.020	0.000	0.802	0.426	0.639	0.614	0.157	-3.218
FM	GRCA2	36.066	-112.154	-0.008	0.080	0.803	0.652	0.732	0.728	0.112	-1.089
FM	GRGU1	44.308	-71.218	-0.046	0.000	1.790	0.924	1.288	1.334	0.294	-3.415
FM	GRR11	43.937	-91.405	-0.078	0.000	3.136	1.659	2.287	2.281	0.499	-3.408
FM	GRSA1	37.725	-105.519	-0.014	0.092	1.282	1.016	1.118	1.149	0.215	-1.216
FM	GRSM1	35.633	-83.942	-0.157	0.000	4.575	1.584	2.992	3.080	0.990	-5.113
FM	GUMO1	31.833	-104.809	-0.004	0.697	1.877	1.803	1.816	1.840	0.264	-0.212
FM	HAVO1	19.431	-155.258	0.001	0.700	0.689	0.715	0.715	0.702	0.103	0.196
FM	HECA1	44.97	-116.844	-0.025	0.039	1.155	0.673	0.972	0.901	0.198	-2.816
FM	HEGL1	36.614	-92.922	-0.093	0.000	4.292	2.519	3.122	3.359	0.597	-2.778
FM	HOOV1	38.088	-119.177	0.001	0.472	0.477	0.505	0.491	0.492	0.108	0.294
FM	IKBA1	34.34	-111.683	-0.024	0.004	1.656	1.191	1.412	1.424	0.209	-1.719
FM	ISLE1	47.46	-88.149	-0.031	0.000	1.388	0.805	1.107	1.097	0.209	-2.797
FM	JARB1	41.893	-115.426	-0.005	0.173	0.561	0.458	0.500	0.509	0.091	-1.055
FM	JARI1	37.627	-79.512	-0.135	0.000	5.124	2.550	3.646	3.769	0.900	-3.595
FM	JOSH1	34.07	-116.389	-0.021	0.005	1.461	1.067	1.302	1.264	0.245	-1.642
FM	KAIS1	37.221	-119.155	-0.004	0.240	0.494	0.411	0.439	0.448	0.088	-0.977
FM	KALM1	42.552	-124.059	-0.002	0.746	1.181	1.143	1.212	1.162	0.184	-0.174
FM	LABE1	41.712	-121.507	-0.009	0.218	0.619	0.442	0.564	0.530	0.173	-1.759
FM	LASU2	40.693	-92.006	-0.099	0.000	4.305	2.418	3.040	3.114	0.515	-3.189
FM	LAVO1	40.54	-121.577	-0.006	0.173	0.568	0.451	0.494	0.509	0.112	-1.206
FM	LIGO1	35.972	-81.933	-0.108	0.000	3.597	1.548	2.627	2.573	0.807	-4.192

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FM	LOST1	48.642	-102.402	-0.024	0.027	2.052	1.604	1.790	1.828	0.261	-1.292
FM	MACA1	37.132	-86.148	-0.166	0.000	5.766	2.605	4.159	4.186	1.010	-3.975
FM	MAVI1	41.331	-70.785	-0.083	0.000	3.357	1.786	2.514	2.448	0.451	-3.377
FM	MEAD1	36.019	-114.068	-0.025	0.002	1.430	0.956	1.141	1.156	0.183	-2.158
FM	MELA1	48.487	-104.476	-0.028	0.002	1.734	1.194	1.459	1.464	0.248	-1.940
FM	MEVE1	37.198	-108.491	-0.034	0.000	1.363	0.721	1.032	1.042	0.268	-3.242
FM	MING1	36.972	-90.143	-0.111	0.000	4.904	2.787	3.932	3.789	0.838	-2.941
FM	MOHO1	45.289	-121.784	-0.009	0.027	0.367	0.205	0.302	0.286	0.093	-2.983
FM	MOMO1	41.821	-73.297	-0.070	0.000	2.560	1.234	1.788	1.827	0.401	-3.820
FM	MONT1	47.122	-113.154	-0.020	0.000	0.906	0.536	0.724	0.711	0.172	-2.742
FM	MOOS1	45.126	-67.266	-0.049	0.000	2.067	1.130	1.594	1.599	0.337	-3.082
FM	MORA1	46.758	-122.124	-0.013	0.006	0.859	0.611	0.795	0.735	0.187	-1.774
FM	MOZI1	40.538	-106.677	-0.009	0.074	0.603	0.441	0.526	0.517	0.102	-1.647
FM	NEBR1	41.889	-100.339	-0.030	0.001	1.713	1.135	1.334	1.363	0.230	-2.232
FM	NOAB1	44.745	-109.382	-0.009	0.007	0.522	0.348	0.447	0.431	0.104	-2.129
FM	NOCA1	48.732	-121.065	-0.015	0.009	0.538	0.257	0.431	0.398	0.188	-3.718
FM	NOCH1	45.65	-106.557	-0.010	0.026	0.898	0.698	0.805	0.782	0.154	-1.342
FM	OKEF1	30.74	-82.128	-0.085	0.000	4.858	3.235	4.031	4.047	0.591	-2.111
FM	OLYM1	48.007	-122.973	-0.027	0.007	0.968	0.453	0.696	0.683	0.200	-3.969
FM	ORPI1	31.951	-112.802	-0.022	0.026	2.139	1.727	1.907	1.900	0.209	-1.139
FM	PASA1	48.388	-119.927	-0.012	0.007	0.460	0.236	0.370	0.342	0.092	-3.440
FM	PEFO1	35.078	-109.769	-0.022	0.006	1.609	1.182	1.373	1.396	0.205	-1.609
FM	PENO1	44.948	-68.648	-0.048	0.004	2.376	1.456	1.745	1.771	0.267	-2.732
FM	PINN1	36.483	-121.157	-0.011	0.173	1.906	1.691	1.815	1.798	0.197	-0.628
FM	PMRF1	44.528	-72.869	-0.052	0.000	2.086	1.098	1.587	1.566	0.331	-3.322
FM	PORE1	38.122	-122.909	-0.048	0.000	2.400	1.496	1.996	1.948	0.357	-2.442
FM	PRIS1	46.696	-68.033	-0.047	0.000	2.328	1.429	1.738	1.855	0.338	-2.550
FM	QUCI1	39.943	-81.338	-0.136	0.000	5.039	2.463	3.879	3.683	0.805	-3.682
FM	QURE1	42.299	-72.335	-0.080	0.000	2.677	1.155	1.990	2.037	0.386	-3.934
FM	QUVA1	33.294	-111.286	-0.042	0.006	2.458	1.656	2.212	2.120	0.390	-1.990
FM	RAFA1	34.734	-120.007	-0.010	0.299	1.244	1.059	1.168	1.152	0.255	-0.843
FM	REDW1	41.561	-124.084	-0.001	0.746	0.907	0.883	0.905	0.895	0.183	-0.141
FM	ROMA1	32.941	-79.657	-0.079	0.004	4.601	3.100	3.939	3.850	0.677	-2.052
FM	ROMO1	40.278	-105.546	-0.009	0.032	0.657	0.479	0.602	0.568	0.126	-1.650
FM	SACR1	33.46	-104.404	-0.030	0.013	2.298	1.731	2.119	2.000	0.385	-1.494
FM	SAGA1	34.297	-118.028	-0.015	0.105	1.015	0.734	0.873	0.860	0.225	-1.716

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FM	SAGO1	34.194	-116.913	-0.023	0.000	1.042	0.602	0.888	0.822	0.221	-2.815
FM	SAGU1	32.175	-110.737	-0.063	0.000	2.809	1.618	2.296	2.182	0.533	-2.873
FM	SAMA1	30.093	-84.161	-0.109	0.000	5.124	3.057	3.990	4.036	0.658	-2.695
FM	SAPE1	36.014	-106.845	-0.007	0.221	0.759	0.625	0.686	0.689	0.165	-1.024
FM	SAWE1	32.249	-111.218	-0.052	0.007	3.289	2.295	2.894	2.739	0.496	-1.910
FM	SAWT1	44.171	-114.927	-0.027	0.000	0.945	0.429	0.706	0.687	0.193	-3.950
FM	SENE1	46.289	-85.95	-0.028	0.004	1.309	0.773	1.093	1.041	0.248	-2.710
FM	SEQU1	36.489	-118.829	-0.023	0.136	1.938	1.506	1.748	1.722	0.397	-1.321
FM	SHEN1	38.523	-78.435	-0.094	0.000	3.283	1.497	2.368	2.390	0.676	-3.934
FM	SHMI1	37.304	-107.484	-0.027	0.033	1.327	0.814	1.001	1.003	0.157	-2.692
FM	SHRO1	35.394	-82.774	-0.061	0.000	1.873	0.707	1.332	1.290	0.444	-4.758
FM	SIAN1	34.091	-110.942	-0.041	0.067	1.788	1.003	1.505	1.499	0.294	-2.759
FM	SIME1	55.326	-160.506	0.015	0.063	0.961	1.246	1.142	1.118	0.161	1.340
FM	SIPS1	34.343	-87.339	-0.161	0.000	5.638	2.581	3.997	4.110	1.053	-3.915
FM	SNPA1	47.422	-121.426	-0.029	0.001	0.838	0.280	0.562	0.559	0.245	-5.249
FM	STAR1	45.225	-118.513	-0.026	0.004	0.928	0.440	0.739	0.684	0.305	-3.752
FM	SULA1	45.86	-114	-0.016	0.002	0.549	0.237	0.411	0.402	0.117	-4.095
FM	SWAN1	35.451	-76.207	-0.085	0.002	4.163	2.554	3.255	3.274	0.583	-2.588
FM	SYCA1	35.141	-111.969	0.002	0.961	1.509	1.544	1.708	1.523	0.326	0.121
FM	TALL1	38.434	-96.56	-0.049	0.002	3.096	2.162	2.486	2.555	0.374	-1.923
FM	THBA1	44.663	-105.287	-0.031	0.000	1.571	0.984	1.244	1.215	0.250	-2.543
FM	THRO1	46.895	-103.378	-0.042	0.000	1.763	0.960	1.426	1.362	0.296	-3.102
FM	THSI1	44.291	-122.043	-0.005	0.475	0.351	0.253	0.325	0.302	0.106	-1.711
FM	TONT1	33.655	-111.107	-0.033	0.000	2.100	1.477	1.774	1.789	0.273	-1.833
FM	TRCR1	62.315	-150.316	-0.008	0.306	0.500	0.355	0.451	0.420	0.127	-1.809
FM	TRIN1	40.786	-122.805	0.003	0.528	0.573	0.625	0.632	0.596	0.193	0.457
FM	ULBE1	47.582	-108.72	-0.016	0.008	1.024	0.713	0.896	0.868	0.198	-1.881
FM	UPBU1	35.826	-93.203	-0.077	0.000	3.375	1.915	2.661	2.645	0.609	-2.905
FM	VIIS1	18.336	-64.796	0.024	0.058	2.112	2.562	2.274	2.325	0.285	1.017
FM	VILA1	40.969	-95.045	-0.098	0.000	4.379	2.517	3.120	3.301	0.564	-2.969
FM	VOYA2	48.413	-92.829	-0.035	0.000	1.534	0.863	1.193	1.199	0.266	-2.946
FM	WEMI1	37.659	-107.8	-0.019	0.000	0.915	0.563	0.727	0.739	0.136	-2.505
FM	WHIT1	33.469	-105.535	-0.015	0.075	1.213	0.928	1.080	1.055	0.180	-1.418
FM	WHPA1	46.624	-121.388	-0.007	0.105	0.257	0.121	0.210	0.189	0.101	-3.795
FM	WHPE1	36.585	-105.452	-0.004	0.680	0.633	0.559	0.591	0.594	0.119	-0.653
FM	WHRI1	39.154	-106.821	-0.008	0.004	0.549	0.399	0.470	0.474	0.066	-1.662

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FM	WICA1	43.558	-103.484	-0.018	0.001	1.194	0.846	1.028	1.020	0.168	-1.795
FM	WIMO1	34.732	-98.713	-0.014	0.278	2.524	2.258	2.332	2.384	0.309	-0.587
FM	YELL2	44.565	-110.4	-0.018	0.000	0.727	0.387	0.523	0.557	0.128	-3.207
FM	YOSE1	37.713	-119.706	0.002	0.604	0.549	0.589	0.602	0.569	0.176	0.364
FM	ZICA1	37.198	-113.151	-0.009	0.118	1.163	1.002	1.067	1.070	0.126	-0.795
CM	ACAD1	44.377	-68.261	0.017	0.060	0.597	0.913	0.765	0.755	0.206	2.205
CM	AGTI1	33.464	-116.971	-0.034	0.172	3.228	2.588	2.905	2.891	0.585	-1.166
CM	BADL1	43.743	-101.941	-0.007	0.299	0.950	0.824	0.892	0.887	0.162	-0.751
CM	BALD1	34.058	-109.441	-0.005	0.753	0.563	0.462	0.533	0.510	0.170	-1.045
CM	BAND1	35.78	-106.266	0.011	0.243	0.618	0.830	0.766	0.724	0.282	1.539
CM	BIBE1	29.303	-103.178	0.023	0.080	1.362	1.803	1.684	1.582	0.532	1.468
CM	BLIS1	38.976	-120.103	0.011	0.009	0.333	0.547	0.439	0.434	0.126	2.582
CM	BOAP1	33.869	-106.852	0.024	0.330	1.244	1.703	1.529	1.473	0.525	1.639
CM	BOND1	40.052	-88.373	0.008	0.649	1.889	2.037	2.005	1.967	0.482	0.394
CM	BOWA1	47.947	-91.495	0.000	0.948	0.357	0.347	0.377	0.352	0.127	-0.139
CM	BRCA1	37.618	-112.174	-0.004	0.475	0.406	0.329	0.362	0.368	0.130	-1.099
CM	BRID1	42.975	-109.758	-0.002	0.516	0.207	0.175	0.200	0.191	0.066	-0.891
CM	BRIG1	39.465	-74.449	0.025	0.364	2.435	2.917	2.635	2.676	0.617	0.947
CM	BRMA1	44.107	-70.729	-0.020	0.151	0.732	0.354	0.521	0.572	0.199	-3.476
CM	CABA1	43.833	-70.064	0.018	0.172	0.744	1.081	0.980	0.921	0.299	1.924
CM	CABI1	47.955	-115.671	-0.001	0.700	0.176	0.152	0.161	0.164	0.096	-0.767
CM	CACO1	41.976	-70.024	0.018	0.278	2.096	2.430	2.179	2.272	0.320	0.774
CM	CACR1	34.454	-94.143	-0.007	0.753	1.519	1.391	1.440	1.451	0.356	-0.465
CM	CANY1	38.459	-109.821	-0.015	0.038	0.825	0.531	0.679	0.678	0.228	-2.284
CM	CAPI1	38.302	-111.293	0.014	0.063	0.434	0.692	0.575	0.577	0.166	2.355
CM	CEBL1	38.77	-99.763	0.022	0.458	1.692	2.106	1.982	1.932	0.601	1.128
CM	CHAS1	28.748	-82.555	0.001	0.970	2.570	2.583	2.599	2.577	0.393	0.026
CM	CHIR1	32.009	-109.389	0.003	0.897	1.292	1.346	1.336	1.319	0.398	0.215
CM	COHU1	34.785	-84.627	0.039	0.021	0.508	1.240	0.917	0.912	0.402	4.224
CM	CORI1	45.664	-121.001	-0.005	0.700	1.237	1.146	1.147	1.189	0.372	-0.406
CM	CRLA1	42.896	-122.136	0.000	0.850	0.078	0.076	0.080	0.077	0.066	-0.140
CM	CRMO1	43.46	-113.555	-0.001	0.753	0.419	0.392	0.397	0.404	0.086	-0.354
CM	DENA1	63.723	-148.967	0.000	0.948	0.185	0.191	0.179	0.188	0.064	0.170
CM	DOME1	35.728	-118.138	0.008	0.649	1.037	1.184	1.111	1.115	0.349	0.692
CM	DOSO1	39.105	-79.426	0.023	0.008	0.396	0.827	0.569	0.612	0.222	3.710
CM	EGBE1	44.231	-79.783	0.007	0.352	0.868	1.007	1.064	0.959	0.311	0.764

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CM	EVER1	25.391	-80.681	0.032	0.463	2.522	3.134	2.800	2.844	0.740	1.132
CM	FLAT1	47.773	-114.269	-0.003	0.564	0.234	0.183	0.228	0.204	0.111	-1.321
CM	FOPE1	48.308	-105.102	-0.013	0.621	0.996	0.755	0.847	0.857	0.270	-1.479
CM	FRRE1	39.706	-79.012	0.014	0.418	1.108	1.379	1.360	1.272	0.323	1.123
CM	GAMO1	46.826	-111.711	-0.012	0.025	0.239	0.002	0.144	0.120	0.107	-10.367
CM	GICL1	33.22	-108.235	0.009	0.119	0.439	0.619	0.516	0.529	0.168	1.796
CM	GLAC1	48.511	-113.997	0.004	0.330	0.348	0.416	0.389	0.382	0.086	0.937
CM	GRBA1	39.005	-114.216	-0.003	0.330	0.420	0.356	0.390	0.388	0.103	-0.864
CM	GRCA2	36.066	-112.154	-0.007	0.344	0.480	0.347	0.451	0.421	0.151	-1.666
CM	GRGU1	44.308	-71.218	-0.014	0.006	0.620	0.345	0.522	0.475	0.134	-3.041
CM	GRII1	43.937	-91.405	-0.030	0.161	1.798	1.237	1.582	1.473	0.549	-2.004
CM	GRSA1	37.725	-105.519	-0.025	0.005	0.843	0.360	0.779	0.602	0.369	-4.219
CM	GRSM1	35.633	-83.942	0.007	0.650	1.127	1.254	1.179	1.191	0.281	0.563
CM	GUMO1	31.833	-104.809	0.025	0.399	1.614	2.087	1.921	1.850	0.598	1.343
CM	HAVO1	19.431	-155.258	0.009	0.278	0.243	0.414	0.309	0.333	0.261	2.703
CM	HECA1	44.97	-116.844	0.006	0.074	0.312	0.431	0.367	0.375	0.088	1.679
CM	HEGL1	36.614	-92.922	0.005	0.807	1.899	2.003	1.969	1.953	0.341	0.279
CM	HOOV1	38.088	-119.177	0.005	0.426	0.317	0.409	0.366	0.368	0.143	1.313
CM	IKBA1	34.34	-111.683	0.005	0.559	1.019	1.117	1.062	1.068	0.273	0.482
CM	ISLE1	47.46	-88.149	-0.012	0.016	0.577	0.340	0.484	0.459	0.123	-2.711
CM	JARB1	41.893	-115.426	0.001	0.846	0.261	0.277	0.258	0.269	0.082	0.312
CM	JARI1	37.627	-79.512	-0.036	0.064	1.647	0.960	1.221	1.285	0.389	-2.814
CM	JOSH1	34.07	-116.389	-0.033	0.027	2.016	1.380	1.755	1.698	0.486	-1.970
CM	KAIS1	37.221	-119.155	-0.002	0.910	0.391	0.354	0.353	0.371	0.116	-0.525
CM	KALM1	42.552	-124.059	-0.017	0.000	0.736	0.418	0.584	0.577	0.186	-2.899
CM	LABE1	41.712	-121.507	-0.006	0.299	0.319	0.210	0.267	0.265	0.106	-2.165
CM	LASU2	40.693	-92.006	0.024	0.458	1.782	2.234	1.999	2.068	0.761	1.152
CM	LAVO1	40.54	-121.577	0.011	0.014	0.149	0.356	0.260	0.252	0.124	4.315
CM	LIGO1	35.972	-81.933	-0.010	0.248	0.961	0.769	0.849	0.860	0.174	-1.172
CM	LOST1	48.642	-102.402	0.019	0.173	1.104	1.473	1.250	1.289	0.361	1.504
CM	MACA1	37.132	-86.148	0.004	0.846	1.531	1.615	1.352	1.573	0.666	0.280
CM	MAVI1	41.331	-70.785	0.081	0.039	1.720	3.251	2.770	2.607	0.985	3.093
CM	MEAD1	36.019	-114.068	-0.021	0.458	1.181	0.790	1.113	0.955	0.482	-2.157
CM	MELA1	48.487	-104.476	-0.016	0.153	1.263	0.962	1.126	1.113	0.321	-1.422
CM	MEVE1	37.198	-108.491	0.008	0.194	0.456	0.610	0.562	0.533	0.189	1.524
CM	MING1	36.972	-90.143	0.014	0.506	2.085	2.357	2.205	2.228	0.731	0.643

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CM	MOHO1	45.289	-121.784	0.000	0.846	0.047	0.042	0.037	0.045	0.084	-0.572
CM	MOMO1	41.821	-73.297	0.013	0.365	0.526	0.768	0.677	0.666	0.259	1.909
CM	MONT1	47.122	-113.154	0.001	0.861	0.128	0.141	0.141	0.135	0.116	0.513
CM	MOOS1	45.126	-67.266	-0.008	0.136	0.775	0.623	0.716	0.699	0.169	-1.149
CM	MORA1	46.758	-122.124	-0.005	0.173	0.440	0.345	0.402	0.392	0.106	-1.269
CM	MOZI1	40.538	-106.677	-0.010	0.046	0.324	0.126	0.242	0.220	0.110	-4.745
CM	NEBR1	41.889	-100.339	-0.007	0.471	1.107	0.977	1.036	1.028	0.295	-0.668
CM	NOAB1	44.745	-109.382	-0.014	0.026	0.536	0.277	0.398	0.413	0.127	-3.292
CM	NOCA1	48.732	-121.065	-0.003	0.105	0.163	0.099	0.145	0.131	0.069	-2.552
CM	NOCH1	45.65	-106.557	-0.008	0.138	0.624	0.470	0.517	0.535	0.125	-1.515
CM	OKEF1	30.74	-82.128	0.018	0.218	1.589	1.932	1.748	1.760	0.436	1.026
CM	OLYM1	48.007	-122.973	-0.003	0.570	0.282	0.227	0.254	0.252	0.072	-1.147
CM	ORPI1	31.951	-112.802	0.025	0.621	2.432	2.902	2.693	2.704	0.670	0.915
CM	PASA1	48.388	-119.927	0.008	0.002	0.038	0.184	0.111	0.115	0.066	6.686
CM	PEFO1	35.078	-109.769	0.018	0.092	0.665	1.012	0.842	0.838	0.219	2.179
CM	PENO1	44.948	-68.648	0.025	0.250	0.818	1.300	1.150	1.135	0.322	2.236
CM	PINN1	36.483	-121.157	0.024	0.044	1.594	2.058	1.882	1.826	0.343	1.335
CM	PMRF1	44.528	-72.869	-0.003	0.552	0.606	0.555	0.607	0.579	0.173	-0.459
CM	PORE1	38.122	-122.909	-0.024	0.105	2.062	1.611	1.739	1.837	0.426	-1.293
CM	PRIS1	46.696	-68.033	0.000	0.972	1.486	1.490	1.504	1.488	0.323	0.012
CM	QUCI1	39.943	-81.338	0.013	0.506	1.665	1.910	1.700	1.794	0.343	0.720
CM	QURE1	42.299	-72.335	0.006	0.458	0.634	0.748	0.658	0.682	0.156	0.882
CM	QUVA1	33.294	-111.286	0.003	0.882	2.898	2.953	3.147	2.921	0.538	0.099
CM	RAFA1	34.734	-120.007	0.003	0.897	1.407	1.458	1.482	1.433	0.300	0.189
CM	REDW1	41.561	-124.084	0.006	0.516	1.015	1.138	1.064	1.077	0.229	0.602
CM	ROMA1	32.941	-79.657	-0.003	0.846	2.033	1.984	2.046	2.009	0.573	-0.127
CM	ROMO1	40.278	-105.546	-0.015	0.052	0.611	0.323	0.490	0.467	0.181	-3.249
CM	SACR1	33.46	-104.404	0.095	0.006	2.117	3.915	2.705	3.064	0.974	3.089
CM	SAGA1	34.297	-118.028	-0.010	0.589	1.249	1.063	1.116	1.146	0.274	-0.853
CM	SAGO1	34.194	-116.913	-0.003	0.697	1.032	0.973	0.996	1.003	0.255	-0.308
CM	SAGU1	32.175	-110.737	0.047	0.100	2.120	3.004	2.484	2.585	0.628	1.799
CM	SAMA1	30.093	-84.161	0.011	0.600	1.387	1.592	1.394	1.495	0.459	0.721
CM	SAPE1	36.014	-106.845	0.005	0.310	0.237	0.324	0.289	0.283	0.105	1.628
CM	SAWE1	32.249	-111.218	0.028	0.570	3.211	3.733	3.648	3.500	0.697	0.786
CM	SAWT1	44.171	-114.927	0.006	0.115	0.014	0.132	0.092	0.076	0.101	8.144
CM	SENE1	46.289	-85.95	-0.006	0.153	0.370	0.257	0.348	0.314	0.114	-1.900

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CM	SEQU1	36.489	-118.829	0.015	0.559	1.474	1.758	1.693	1.616	0.378	0.924
CM	SHEN1	38.523	-78.435	-0.007	0.299	1.041	0.901	0.943	0.971	0.179	-0.760
CM	SHMI1	37.304	-107.484	-0.010	0.216	0.597	0.410	0.528	0.479	0.169	-2.059
CM	SHRO1	35.394	-82.774	0.029	0.006	0.029	0.573	0.342	0.316	0.282	9.083
CM	SIAN1	34.091	-110.942	0.014	0.622	0.819	1.084	0.965	0.916	0.312	1.522
CM	SIME1	55.326	-160.506	0.018	0.002	1.224	1.560	1.406	1.410	0.192	1.252
CM	SIPS1	34.343	-87.339	-0.019	0.194	1.726	1.365	1.572	1.546	0.358	-1.228
CM	SNPA1	47.422	-121.426	0.001	0.650	0.079	0.099	0.093	0.089	0.073	1.177
CM	STAR1	45.225	-118.513	0.007	0.080	0.223	0.363	0.257	0.293	0.089	2.511
CM	SULA1	45.86	-114	-0.006	0.410	0.293	0.186	0.237	0.237	0.108	-2.389
CM	SWAN1	35.451	-76.207	-0.017	0.118	2.361	2.029	2.167	2.169	0.346	-0.806
CM	SYCA1	35.141	-111.969	0.020	0.151	0.522	0.893	0.788	0.678	0.327	2.881
CM	TALL1	38.434	-96.56	0.025	0.410	1.777	2.244	2.002	2.048	0.631	1.202
CM	THBA1	44.663	-105.287	-0.027	0.150	1.458	0.946	1.136	1.148	0.332	-2.348
CM	THRO1	46.895	-103.378	-0.008	0.697	1.387	1.234	1.279	1.311	0.339	-0.614
CM	THSI1	44.291	-122.043	0.002	0.475	0.141	0.182	0.171	0.162	0.063	1.354
CM	TONT1	33.655	-111.107	0.001	0.948	1.400	1.410	1.450	1.405	0.349	0.039
CM	TRCR1	62.315	-150.316	-0.002	0.791	0.312	0.272	0.276	0.290	0.081	-0.726
CM	TRIN1	40.786	-122.805	0.001	0.589	0.227	0.255	0.283	0.239	0.118	0.606
CM	ULBE1	47.582	-108.72	-0.008	0.194	0.726	0.574	0.629	0.650	0.137	-1.227
CM	UPBU1	35.826	-93.203	-0.049	0.080	2.111	1.186	1.558	1.648	0.700	-2.953
CM	VIIS1	18.336	-64.796	-0.005	0.742	5.319	5.224	5.433	5.274	0.681	-0.095
CM	VILA1	40.969	-95.045	0.002	0.934	2.254	2.297	2.368	2.279	0.699	0.100
CM	VOYA2	48.413	-92.829	-0.003	0.436	0.456	0.408	0.402	0.432	0.141	-0.585
CM	WEMI1	37.659	-107.8	-0.021	0.002	0.812	0.409	0.617	0.610	0.161	-3.480
CM	WHIT1	33.469	-105.535	-0.005	0.622	1.031	0.941	1.017	0.982	0.264	-0.481
CM	WHPA1	46.624	-121.388	0.000	0.922	0.062	0.058	0.074	0.060	0.069	-0.296
CM	WHPE1	36.585	-105.452	-0.006	0.458	0.394	0.282	0.360	0.335	0.141	-1.748
CM	WHRI1	39.154	-106.821	-0.009	0.038	0.295	0.122	0.227	0.208	0.123	-4.372
CM	WICA1	43.558	-103.484	-0.006	0.248	0.753	0.638	0.703	0.699	0.174	-0.867
CM	WIMO1	34.732	-98.713	0.034	0.028	2.065	2.718	2.427	2.409	0.425	1.428
CM	YELL2	44.565	-110.4	0.001	0.604	0.151	0.169	0.179	0.160	0.074	0.589
CM	YOSE1	37.713	-119.706	0.007	0.270	0.471	0.597	0.544	0.534	0.138	1.246
CM	ZICA1	37.198	-113.151	-0.008	0.680	1.123	0.962	1.050	1.030	0.359	-0.821
PM10	ACAD1	44.377	-68.261	-0.032	0.014	2.753	2.153	2.537	2.453	0.348	-1.289
PM10	AGTI1	33.464	-116.971	-0.081	0.039	5.776	4.242	5.079	4.969	0.868	-1.625

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3}\text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
PM10	BADL1	43.743	-101.941	-0.054	0.000	3.150	2.124	2.648	2.637	0.388	-2.047
PM10	BALD1	34.058	-109.441	-0.025	0.086	1.702	1.235	1.571	1.456	0.302	-1.688
PM10	BAND1	35.78	-106.266	-0.029	0.027	2.569	2.015	2.351	2.292	0.361	-1.272
PM10	BIBE1	29.303	-103.178	-0.048	0.243	4.666	3.745	4.306	4.206	0.964	-1.152
PM10	BLIS1	38.976	-120.103	-0.001	0.972	1.177	1.168	1.211	1.173	0.229	-0.043
PM10	BOAP1	33.869	-106.852	0.004	0.948	3.371	3.448	3.524	3.410	0.838	0.119
PM10	BOND1	40.052	-88.373	-0.158	0.000	9.389	6.391	7.590	7.811	1.127	-2.020
PM10	BOWA1	47.947	-91.495	-0.062	0.000	2.387	1.205	1.850	1.796	0.429	-3.463
PM10	BRCA1	37.618	-112.174	-0.015	0.136	1.181	0.906	1.044	1.044	0.235	-1.391
PM10	BRID1	42.975	-109.758	-0.016	0.008	0.886	0.591	0.766	0.739	0.161	-2.104
PM10	BRIG1	39.465	-74.449	-0.119	0.005	8.564	6.298	7.411	7.431	1.254	-1.605
PM10	BRMA1	44.107	-70.729	-0.065	0.015	3.185	1.942	2.650	2.661	0.455	-2.458
PM10	CABA1	43.833	-70.064	-0.056	0.033	4.043	2.975	3.420	3.481	0.527	-1.616
PM10	CABI1	47.955	-115.671	-0.017	0.151	1.152	0.829	0.963	0.982	0.216	-1.732
PM10	CACO1	41.976	-70.024	-0.059	0.009	5.867	4.749	5.299	5.279	0.515	-1.114
PM10	CACR1	34.454	-94.143	-0.105	0.005	6.160	4.158	4.804	5.106	0.964	-2.063
PM10	CANY1	38.459	-109.821	-0.037	0.023	2.263	1.556	1.906	1.909	0.390	-1.949
PM10	CAPI1	38.302	-111.293	-0.004	0.704	1.606	1.536	1.564	1.568	0.240	-0.237
PM10	CEBL1	38.77	-99.763	-0.064	0.099	5.195	3.973	4.707	4.487	0.833	-1.434
PM10	CHAS1	28.748	-82.555	-0.131	0.000	9.623	7.125	8.251	8.374	1.054	-1.570
PM10	CHIR1	32.009	-109.389	-0.030	0.136	3.006	2.428	2.792	2.717	0.568	-1.119
PM10	COHU1	34.785	-84.627	-0.106	0.000	5.201	3.191	4.093	4.090	0.769	-2.587
PM10	CORI1	45.664	-121.001	-0.030	0.218	4.192	3.624	3.938	3.908	0.726	-0.765
PM10	CRLA1	42.896	-122.136	-0.014	0.014	0.710	0.439	0.584	0.575	0.181	-2.481
PM10	CRMO1	43.46	-113.555	-0.033	0.004	1.609	0.976	1.285	1.276	0.250	-2.612
PM10	DENA1	63.723	-148.967	-0.002	0.697	0.572	0.540	0.556	0.556	0.187	-0.299
PM10	DOME1	35.728	-118.138	-0.006	0.861	2.509	2.394	2.497	2.448	0.561	-0.249
PM10	DOSO1	39.105	-79.426	-0.142	0.000	5.134	2.444	3.726	3.789	0.900	-3.738
PM10	EGBE1	44.231	-79.783	-0.054	0.071	3.857	2.840	3.315	3.188	0.498	-1.679
PM10	EVER1	25.391	-80.681	-0.055	0.172	7.510	6.458	7.006	6.956	0.937	-0.796
PM10	FLAT1	47.773	-114.269	-0.023	0.032	1.123	0.688	0.952	0.871	0.192	-2.628
PM10	FOPE1	48.308	-105.102	-0.072	0.004	3.646	2.275	2.833	2.852	0.483	-2.530
PM10	FRRE1	39.706	-79.012	-0.163	0.003	7.147	4.047	4.995	5.270	1.009	-3.096
PM10	GAMO1	46.826	-111.711	-0.015	0.013	0.764	0.482	0.682	0.616	0.195	-2.404
PM10	GICL1	33.22	-108.235	-0.015	0.119	1.752	1.473	1.643	1.613	0.245	-0.910
PM10	GLAC1	48.511	-113.997	-0.049	0.001	2.513	1.586	2.105	2.049	0.409	-2.381



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PM10	GRBA1	39.005	-114.216	-0.037	0.002	1.509	0.810	1.185	1.159	0.288	-3.174
PM10	GRCA2	36.066	-112.154	-0.029	0.007	1.468	0.912	1.252	1.219	0.271	-2.399
PM10	GRGU1	44.308	-71.218	-0.074	0.000	2.788	1.385	2.101	2.050	0.449	-3.605
PM10	GRRI1	43.937	-91.405	-0.134	0.007	5.974	3.433	4.538	4.503	1.079	-2.969
PM10	GRSA1	37.725	-105.519	-0.055	0.004	2.519	1.480	2.125	2.000	0.527	-2.735
PM10	GRSM1	35.633	-83.942	-0.178	0.000	6.476	3.091	4.651	4.784	1.155	-3.724
PM10	GUMO1	31.833	-104.809	0.007	0.897	4.277	4.406	4.300	4.342	0.825	0.156
PM10	HAVO1	19.431	-155.258	0.015	0.132	1.239	1.530	1.403	1.392	0.228	1.101
PM10	HECA1	44.97	-116.844	-0.028	0.115	1.847	1.317	1.540	1.568	0.315	-1.778
PM10	HEGL1	36.614	-92.922	-0.111	0.000	7.187	5.085	5.957	6.080	0.801	-1.820
PM10	HOOV1	38.088	-119.177	-0.001	0.970	1.025	1.011	1.015	1.017	0.202	-0.074
PM10	IKBA1	34.34	-111.683	-0.024	0.136	2.956	2.502	2.776	2.729	0.385	-0.875
PM10	ISLE1	47.46	-88.149	-0.052	0.000	2.310	1.332	1.832	1.821	0.354	-2.829
PM10	JARB1	41.893	-115.426	-0.008	0.330	0.960	0.814	0.900	0.887	0.149	-0.868
PM10	JARI1	37.627	-79.512	-0.199	0.000	7.731	3.945	5.547	5.738	1.273	-3.473
PM10	JOSH1	34.07	-116.389	-0.051	0.092	3.518	2.553	3.256	3.035	0.635	-1.672
PM10	KAIS1	37.221	-119.155	-0.013	0.240	1.205	0.949	0.987	1.063	0.256	-1.266
PM10	KALM1	42.552	-124.059	-0.017	0.027	2.143	1.824	2.020	1.984	0.277	-0.846
PM10	LABE1	41.712	-121.507	-0.018	0.105	1.151	0.801	0.997	0.976	0.309	-1.886
PM10	LASU2	40.693	-92.006	-0.220	0.033	9.335	5.164	7.184	6.701	1.474	-3.277
PM10	LAVO1	40.54	-121.577	0.003	0.746	0.848	0.898	0.856	0.873	0.198	0.302
PM10	LIGO1	35.972	-81.933	-0.155	0.000	5.278	2.324	3.965	3.723	1.077	-4.176
PM10	LOST1	48.642	-102.402	-0.020	0.330	4.057	3.674	3.940	3.866	0.591	-0.521
PM10	MACA1	37.132	-86.148	-0.180	0.000	7.924	4.507	6.325	6.215	1.232	-2.893
PM10	MAVI1	41.331	-70.785	-0.021	0.836	5.841	5.436	5.992	5.606	1.022	-0.380
PM10	MEAD1	36.019	-114.068	-0.063	0.084	2.855	1.661	2.407	2.164	0.645	-2.904
PM10	MELA1	48.487	-104.476	-0.066	0.003	3.808	2.550	3.190	3.179	0.571	-2.083
PM10	MEVE1	37.198	-108.491	-0.033	0.016	1.983	1.350	1.773	1.666	0.467	-2.001
PM10	MING1	36.972	-90.143	-0.131	0.004	8.874	6.385	7.471	7.564	1.185	-1.732
PM10	MOHO1	45.289	-121.784	-0.006	0.194	0.454	0.343	0.435	0.398	0.166	-1.462
PM10	MOMO1	41.821	-73.297	-0.085	0.000	3.986	2.363	2.923	3.047	0.628	-2.804
PM10	MONT1	47.122	-113.154	-0.016	0.009	1.154	0.844	1.028	0.991	0.241	-1.644
PM10	MOOS1	45.126	-67.266	-0.091	0.000	3.338	1.616	2.634	2.477	0.630	-3.658
PM10	MORA1	46.758	-122.124	-0.021	0.009	1.482	1.083	1.358	1.283	0.249	-1.637
PM10	MOZI1	40.538	-106.677	-0.026	0.028	1.077	0.587	0.898	0.819	0.284	-3.151
PM10	NEBR1	41.889	-100.339	-0.053	0.013	3.460	2.457	2.779	2.879	0.442	-1.834

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PM10	NOAB1	44.745	-109.382	-0.037	0.002	1.441	0.733	1.060	1.105	0.300	-3.371
PM10	NOCA1	48.732	-121.065	-0.025	0.002	0.854	0.382	0.630	0.618	0.236	-4.016
PM10	NOCH1	45.65	-106.557	-0.023	0.032	1.872	1.440	1.623	1.622	0.231	-1.402
PM10	OKEF1	30.74	-82.128	-0.099	0.005	7.664	5.786	6.803	6.725	0.968	-1.469
PM10	OLYM1	48.007	-122.973	-0.043	0.002	1.441	0.624	1.048	0.990	0.285	-4.346
PM10	ORPI1	31.951	-112.802	-0.010	0.805	4.985	4.796	4.956	4.875	0.779	-0.204
PM10	PASA1	48.388	-119.927	-0.009	0.123	0.718	0.539	0.566	0.624	0.121	-1.510
PM10	PEFO1	35.078	-109.769	-0.008	0.436	2.553	2.397	2.495	2.475	0.322	-0.333
PM10	PENO1	44.948	-68.648	-0.043	0.352	3.961	3.135	3.406	3.418	0.650	-1.272
PM10	PINN1	36.483	-121.157	0.036	0.105	3.623	4.313	3.989	3.968	0.510	0.915
PM10	PMRF1	44.528	-72.869	-0.079	0.000	3.396	1.893	2.576	2.605	0.505	-3.038
PM10	PORE1	38.122	-122.909	-0.115	0.004	5.235	3.056	4.253	4.145	1.054	-2.767
PM10	PRIS1	46.696	-68.033	-0.070	0.000	4.570	3.238	3.882	3.869	0.551	-1.811
PM10	QUCI1	39.943	-81.338	-0.115	0.000	7.990	5.809	6.606	6.842	0.939	-1.677
PM10	QURE1	42.299	-72.335	-0.087	0.002	3.872	2.226	3.131	3.179	0.467	-2.725
PM10	QUVA1	33.294	-111.286	-0.085	0.151	6.163	4.543	5.761	5.481	0.897	-1.555
PM10	RAFA1	34.734	-120.007	-0.026	0.330	2.935	2.436	2.784	2.686	0.559	-0.977
PM10	REDW1	41.561	-124.084	-0.007	0.559	2.285	2.145	2.184	2.215	0.414	-0.333
PM10	ROMA1	32.941	-79.657	-0.160	0.001	8.789	5.748	7.390	7.269	1.193	-2.202
PM10	ROMO1	40.278	-105.546	-0.032	0.002	1.649	1.047	1.319	1.348	0.271	-2.354
PM10	SACR1	33.46	-104.404	0.038	0.421	5.521	6.250	6.132	5.905	1.534	0.650
PM10	SAGA1	34.297	-118.028	-0.035	0.177	2.550	1.879	2.236	2.179	0.512	-1.621
PM10	SAGO1	34.194	-116.913	-0.033	0.069	2.316	1.686	2.115	2.001	0.521	-1.658
PM10	SAGU1	32.175	-110.737	-0.090	0.013	6.177	4.476	5.230	5.282	0.804	-1.695
PM10	SAMA1	30.093	-84.161	-0.170	0.000	8.284	5.051	6.592	6.582	1.049	-2.585
PM10	SAPE1	36.014	-106.845	-0.008	0.046	1.137	0.983	1.082	1.056	0.152	-0.770
PM10	SAWE1	32.249	-111.218	-0.059	0.306	7.659	6.541	7.110	7.041	1.146	-0.836
PM10	SAWT1	44.171	-114.927	-0.030	0.000	1.266	0.698	1.023	0.967	0.249	-3.092
PM10	SENE1	46.289	-85.95	-0.052	0.000	2.289	1.304	1.776	1.797	0.340	-2.884
PM10	SEQU1	36.489	-118.829	-0.029	0.475	4.180	3.637	3.876	3.909	0.701	-0.731
PM10	SHEN1	38.523	-78.435	-0.123	0.000	5.060	2.716	3.794	3.888	0.802	-3.173
PM10	SHMI1	37.304	-107.484	-0.044	0.067	2.206	1.375	1.688	1.681	0.331	-2.599
PM10	SHRO1	35.394	-82.774	-0.059	0.013	2.449	1.333	1.911	1.862	0.526	-3.155
PM10	SIAN1	34.091	-110.942	-0.018	0.719	2.632	2.292	2.631	2.498	0.484	-0.717
PM10	SIME1	55.326	-160.506	0.031	0.120	2.339	2.930	2.743	2.666	0.364	1.167
PM10	SIPS1	34.343	-87.339	-0.156	0.000	8.087	5.125	6.430	6.606	1.344	-2.361

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PM10	SNPA1	47.422	-121.426	-0.030	0.000	1.026	0.449	0.741	0.737	0.310	-4.114
PM10	STAR1	45.225	-118.513	-0.024	0.011	1.357	0.901	1.245	1.129	0.514	-2.125
PM10	SULA1	45.86	-114	-0.009	0.115	0.862	0.687	0.746	0.770	0.154	-1.197
PM10	SWAN1	35.451	-76.207	-0.126	0.000	7.666	5.272	6.248	6.343	0.901	-1.987
PM10	SYCA1	35.141	-111.969	0.013	0.805	2.492	2.744	2.812	2.598	0.662	0.510
PM10	TALL1	38.434	-96.56	-0.094	0.099	6.617	4.838	5.784	5.587	1.064	-1.676
PM10	THBA1	44.663	-105.287	-0.068	0.000	3.637	2.339	2.783	2.851	0.570	-2.395
PM10	THRO1	46.895	-103.378	-0.067	0.000	4.069	2.800	3.453	3.435	0.575	-1.944
PM10	THSI1	44.291	-122.043	-0.003	0.697	0.555	0.506	0.586	0.530	0.187	-0.487
PM10	TONT1	33.655	-111.107	-0.046	0.105	3.927	3.048	3.474	3.487	0.548	-1.327
PM10	TRCR1	62.315	-150.316	-0.006	0.426	0.798	0.681	0.815	0.733	0.229	-0.840
PM10	TRIN1	40.786	-122.805	0.007	0.719	0.941	1.070	1.017	0.999	0.256	0.682
PM10	ULBE1	47.582	-108.72	-0.044	0.000	2.279	1.438	1.900	1.859	0.364	-2.381
PM10	UPBU1	35.826	-93.203	-0.173	0.004	7.405	4.123	5.258	5.764	1.348	-2.997
PM10	VIIS1	18.336	-64.796	0.019	0.680	7.706	8.058	8.039	7.873	0.877	0.236
PM10	VILA1	40.969	-95.045	-0.226	0.001	10.167	5.879	7.732	7.685	1.542	-2.937
PM10	VOYA2	48.413	-92.829	-0.049	0.000	2.469	1.542	1.967	2.006	0.372	-2.433
PM10	WEMI1	37.659	-107.8	-0.038	0.000	1.956	1.238	1.507	1.597	0.286	-2.368
PM10	WHIT1	33.469	-105.535	-0.013	0.570	2.492	2.248	2.361	2.357	0.470	-0.546
PM10	WHPA1	46.624	-121.388	-0.013	0.027	0.501	0.250	0.379	0.376	0.148	-3.523
PM10	WHPE1	36.585	-105.452	-0.011	0.426	1.175	0.966	1.143	1.059	0.267	-1.039
PM10	WHRI1	39.154	-106.821	-0.018	0.005	0.976	0.631	0.800	0.804	0.218	-2.257
PM10	WICA1	43.558	-103.484	-0.037	0.013	2.379	1.684	2.113	2.050	0.407	-1.784
PM10	WIMO1	34.732	-98.713	-0.039	0.382	6.351	5.618	5.984	5.965	0.833	-0.647
PM10	YELL2	44.565	-110.4	-0.011	0.060	0.934	0.727	0.797	0.831	0.169	-1.313
PM10	YOSE1	37.713	-119.706	0.013	0.475	1.183	1.428	1.293	1.306	0.340	0.985
PM10	ZICA1	37.198	-113.151	-0.001	0.934	2.235	2.210	2.401	2.220	0.517	-0.060

**Table 6.2.2. IMPROVE short-term (2000–2019) 50<sup>th</sup> percentile mass trends for sites that met completeness criteria (see Chapter 6). Species include sulfate ion (SO<sub>4</sub>), nitrate ion (NO<sub>3</sub>), organic carbon (OC), elemental carbon (EC), fine dust (FD), gravimetric PM<sub>2.5</sub> mass (FM), coarse mass (CM), and gravimetric PM<sub>10</sub> mass (PM<sub>10</sub>). The slope is derived from a linear trend regression, beginning and end year concentrations are based on the linear fit for year 2000 and 2019, the mean and median 50<sup>th</sup> percentile concentrations over the 2000-2019 period, standard deviation in the mean over the 2000-2019 period, and trend is the slope divided by the median concentration times 100.**

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% yr <sup>-1</sup> )
SO4	ACAD1	44.377	-68.261	-0.043	0.000	1.198	0.372	0.811	0.785	0.277	-5.535
SO4	AGTI1	33.464	-116.971	-0.059	0.000	1.656	0.531	1.151	1.064	0.420	-5.569
SO4	BADL1	43.743	-101.941	-0.018	0.000	0.810	0.470	0.654	0.640	0.134	-2.800
SO4	BALD1	34.058	-109.441	-0.018	0.000	0.670	0.335	0.487	0.494	0.107	-3.581
SO4	BAND1	35.78	-106.266	-0.020	0.000	0.699	0.317	0.498	0.508	0.125	-3.962
SO4	BIBE1	29.303	-103.178	-0.039	0.000	1.651	0.905	1.370	1.278	0.286	-3.072
SO4	BLIS1	38.976	-120.103	-0.009	0.000	0.430	0.257	0.353	0.348	0.067	-2.620
SO4	BOAP1	33.869	-106.852	-0.022	0.000	0.797	0.382	0.605	0.590	0.152	-3.701
SO4	BOND1	40.052	-88.373	-0.108	0.000	3.107	1.048	1.934	2.023	0.646	-5.357
SO4	BOWA1	47.947	-91.495	-0.032	0.000	0.970	0.366	0.673	0.668	0.188	-4.757
SO4	BRCA1	37.618	-112.174	-0.015	0.000	0.558	0.269	0.410	0.414	0.092	-3.679
SO4	BRID1	42.975	-109.758	-0.012	0.000	0.439	0.210	0.324	0.324	0.078	-3.717
SO4	BRIG1	39.465	-74.449	-0.142	0.000	3.202	0.510	1.952	1.856	0.855	-7.636
SO4	BRMA1	44.107	-70.729	-0.042	0.001	1.255	0.466	0.956	0.923	0.234	-4.501
SO4	CABA1	43.833	-70.064	-0.058	0.000	1.493	0.384	0.947	0.909	0.345	-6.423
SO4	CABI1	47.955	-115.671	-0.011	0.000	0.398	0.193	0.299	0.290	0.067	-3.720
SO4	CACO1	41.976	-70.024	-0.068	0.000	1.745	0.450	1.151	1.063	0.432	-6.413
SO4	CACR1	34.454	-94.143	-0.104	0.000	2.794	0.823	1.818	1.757	0.651	-5.904
SO4	CANY1	38.459	-109.821	-0.020	0.000	0.655	0.281	0.464	0.468	0.118	-4.206
SO4	CAPI1	38.302	-111.293	-0.012	0.000	0.532	0.311	0.404	0.410	0.081	-2.838
SO4	CEBL1	38.77	-99.763	-0.040	0.000	1.311	0.548	0.930	0.869	0.213	-4.617
SO4	CHAS1	28.748	-82.555	-0.112	0.000	2.741	0.613	1.881	1.677	0.685	-6.679
SO4	CHIR1	32.009	-109.389	-0.022	0.000	0.865	0.445	0.660	0.655	0.139	-3.370
SO4	COHU1	34.785	-84.627	-0.186	0.000	3.847	0.314	2.081	1.894	1.028	-9.817
SO4	CORI1	45.664	-121.001	-0.024	0.000	0.734	0.277	0.534	0.506	0.157	-4.750
SO4	CRLA1	42.896	-122.136	-0.005	0.000	0.276	0.189	0.223	0.233	0.040	-1.965
SO4	CRMO1	43.46	-113.555	-0.010	0.000	0.435	0.246	0.317	0.341	0.067	-2.916
SO4	DENA1	63.723	-148.967	-0.001	0.650	0.219	0.200	0.221	0.209	0.047	-0.476
SO4	DOME1	35.728	-118.138	-0.018	0.000	0.892	0.549	0.738	0.712	0.129	-2.538
SO4	DOSO1	39.105	-79.426	-0.150	0.000	3.454	0.612	2.100	2.033	0.938	-7.359
SO4	EGBE1	44.231	-79.783	-0.057	0.002	1.649	0.558	0.966	0.931	0.248	-6.164

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	ELDO1	37.701	-94.035	-0.114	0.000	2.865	0.703	1.906	1.898	0.499	-5.997
SO4	EVER1	25.391	-80.681	-0.054	0.000	1.869	0.846	1.457	1.331	0.385	-4.050
SO4	FLAT1	47.773	-114.269	-0.008	0.000	0.369	0.213	0.283	0.279	0.050	-2.942
SO4	FOPE1	48.308	-105.102	-0.013	0.008	0.791	0.535	0.628	0.643	0.097	-2.092
SO4	FRRE1	39.706	-79.012	-0.183	0.000	4.041	0.561	2.157	1.935	0.990	-9.467
SO4	GAMO1	46.826	-111.711	-0.008	0.000	0.339	0.186	0.251	0.259	0.051	-3.103
SO4	GICL1	33.22	-108.235	-0.019	0.000	0.710	0.349	0.531	0.530	0.119	-3.583
SO4	GLAC1	48.511	-113.997	-0.014	0.000	0.496	0.235	0.366	0.366	0.091	-3.755
SO4	GRBA1	39.005	-114.216	-0.007	0.000	0.413	0.276	0.343	0.344	0.058	-2.094
SO4	GRCA2	36.066	-112.154	-0.015	0.000	0.601	0.326	0.464	0.464	0.102	-3.129
SO4	GRGU1	44.308	-71.218	-0.050	0.000	1.302	0.355	0.820	0.804	0.294	-6.199
SO4	GRR11	43.937	-91.405	-0.067	0.000	1.787	0.520	1.076	1.054	0.343	-6.329
SO4	GRSA1	37.725	-105.519	-0.015	0.000	0.558	0.275	0.410	0.417	0.096	-3.585
SO4	GRSM1	35.633	-83.942	-0.172	0.000	3.802	0.540	2.273	2.171	1.084	-7.908
SO4	GUMO1	31.833	-104.809	-0.020	0.000	1.035	0.651	0.846	0.843	0.161	-2.399
SO4	HAVO1	19.431	-155.258	-0.001	0.861	0.606	0.584	0.567	0.595	0.096	-0.198
SO4	HECA1	44.97	-116.844	-0.011	0.000	0.461	0.258	0.332	0.354	0.076	-3.007
SO4	HEGL1	36.614	-92.922	-0.103	0.000	2.629	0.664	1.750	1.595	0.608	-6.484
SO4	HOOV1	38.088	-119.177	-0.007	0.021	0.378	0.253	0.314	0.309	0.057	-2.143
SO4	IKBA1	34.34	-111.683	-0.021	0.000	0.805	0.405	0.604	0.605	0.132	-3.476
SO4	ISLE1	47.46	-88.149	-0.036	0.000	1.079	0.400	0.735	0.740	0.220	-4.837
SO4	JARB1	41.893	-115.426	-0.005	0.011	0.346	0.250	0.288	0.298	0.051	-1.706
SO4	JARI1	37.627	-79.512	-0.175	0.000	3.868	0.540	2.241	2.117	1.016	-8.278
SO4	JOSH1	34.07	-116.389	-0.022	0.000	0.799	0.388	0.658	0.593	0.167	-3.646
SO4	KAIS1	37.221	-119.155	-0.008	0.005	0.510	0.350	0.436	0.422	0.071	-2.002
SO4	KALM1	42.552	-124.059	-0.009	0.000	0.458	0.278	0.348	0.368	0.072	-2.567
SO4	LABEL1	41.712	-121.507	-0.010	0.000	0.373	0.190	0.283	0.282	0.065	-3.430
SO4	LASU2	40.693	-92.006	-0.089	0.000	2.367	0.675	1.351	1.298	0.441	-6.859
SO4	LAVO1	40.54	-121.577	-0.008	0.000	0.375	0.215	0.299	0.295	0.060	-2.856
SO4	LIGO1	35.972	-81.933	-0.152	0.000	3.369	0.483	2.057	1.926	1.071	-7.885
SO4	LOST1	48.642	-102.402	-0.022	0.000	0.988	0.566	0.806	0.777	0.156	-2.863
SO4	MACA1	37.132	-86.148	-0.164	0.000	4.093	0.973	2.492	2.533	1.024	-6.482
SO4	MAVI1	41.331	-70.785	-0.078	0.000	1.944	0.467	1.178	1.089	0.417	-7.143
SO4	MEAD1	36.019	-114.068	-0.023	0.000	0.832	0.397	0.556	0.580	0.137	-3.950
SO4	MELA1	48.487	-104.476	-0.014	0.000	0.792	0.526	0.673	0.659	0.111	-2.126
SO4	MEVE1	37.198	-108.491	-0.018	0.000	0.627	0.293	0.451	0.460	0.109	-3.822

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	MING1	36.972	-90.143	-0.126	0.000	3.096	0.706	2.033	1.838	0.796	-6.843
SO4	MOHO1	45.289	-121.784	-0.009	0.000	0.335	0.157	0.259	0.246	0.074	-3.815
SO4	MOMO1	41.821	-73.297	-0.079	0.000	1.829	0.333	1.155	1.002	0.477	-7.861
SO4	MONT1	47.122	-113.154	-0.008	0.000	0.358	0.205	0.274	0.277	0.053	-2.900
SO4	MOOS1	45.126	-67.266	-0.044	0.000	1.235	0.402	0.822	0.819	0.279	-5.355
SO4	MORA1	46.758	-122.124	-0.018	0.000	0.533	0.186	0.378	0.360	0.114	-5.083
SO4	MOZI1	40.538	-106.677	-0.012	0.000	0.495	0.264	0.365	0.373	0.080	-3.261
SO4	NEBR1	41.889	-100.339	-0.028	0.000	1.084	0.556	0.753	0.778	0.165	-3.573
SO4	NOAB1	44.745	-109.382	-0.011	0.000	0.399	0.190	0.294	0.289	0.073	-3.806
SO4	NOCA1	48.732	-121.065	-0.016	0.000	0.487	0.191	0.323	0.339	0.108	-4.597
SO4	NOCH1	45.65	-106.557	-0.013	0.000	0.596	0.342	0.453	0.449	0.077	-2.979
SO4	OKEF1	30.74	-82.128	-0.124	0.000	3.249	0.892	2.008	2.071	0.745	-5.991
SO4	OLYM1	48.007	-122.973	-0.025	0.000	0.674	0.195	0.436	0.409	0.132	-6.157
SO4	ORPI1	31.951	-112.802	-0.029	0.000	1.080	0.536	0.785	0.765	0.197	-3.738
SO4	PASA1	48.388	-119.927	-0.008	0.000	0.309	0.156	0.234	0.229	0.053	-3.523
SO4	PEFO1	35.078	-109.769	-0.019	0.000	0.745	0.385	0.545	0.565	0.122	-3.354
SO4	PENO1	44.948	-68.648	-0.049	0.000	1.343	0.408	0.755	0.728	0.222	-6.769
SO4	PINN1	36.483	-121.157	-0.021	0.000	0.803	0.412	0.644	0.607	0.133	-3.382
SO4	PMRF1	44.528	-72.869	-0.052	0.000	1.383	0.397	0.923	0.864	0.314	-6.001
SO4	PORE1	38.122	-122.909	-0.028	0.000	0.978	0.451	0.773	0.714	0.192	-3.881
SO4	PRIS1	46.696	-68.033	-0.035	0.000	1.126	0.463	0.747	0.777	0.207	-4.496
SO4	QUCI1	39.943	-81.338	-0.169	0.000	4.078	0.860	2.475	2.384	1.016	-7.102
SO4	QURE1	42.299	-72.335	-0.071	0.000	1.935	0.581	1.278	1.365	0.368	-5.218
SO4	QUVA1	33.294	-111.286	-0.025	0.000	1.071	0.596	0.831	0.871	0.143	-2.874
SO4	RAFA1	34.734	-120.007	-0.034	0.000	0.997	0.359	0.774	0.678	0.220	-4.948
SO4	REDW1	41.561	-124.084	-0.013	0.000	0.510	0.255	0.412	0.382	0.097	-3.500
SO4	ROMA1	32.941	-79.657	-0.147	0.000	3.608	0.813	2.219	2.211	0.905	-6.656
SO4	ROMO1	40.278	-105.546	-0.016	0.000	0.550	0.244	0.414	0.397	0.109	-4.062
SO4	SACR1	33.46	-104.404	-0.031	0.000	1.289	0.701	0.994	0.979	0.194	-3.160
SO4	SAGA1	34.297	-118.028	-0.022	0.000	0.820	0.400	0.650	0.588	0.192	-3.763
SO4	SAGO1	34.194	-116.913	-0.025	0.000	0.866	0.396	0.656	0.631	0.174	-3.920
SO4	SAGU1	32.175	-110.737	-0.030	0.000	1.057	0.493	0.733	0.760	0.173	-3.902
SO4	SAMA1	30.093	-84.161	-0.118	0.000	3.137	0.904	1.941	1.962	0.725	-5.991
SO4	SAPE1	36.014	-106.845	-0.018	0.000	0.612	0.272	0.428	0.433	0.110	-4.121
SO4	SAWE1	32.249	-111.218	-0.024	0.000	1.035	0.582	0.740	0.785	0.142	-3.035
SO4	SAWT1	44.171	-114.927	-0.008	0.000	0.316	0.170	0.242	0.243	0.051	-3.149

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	SENE1	46.289	-85.95	-0.040	0.000	1.136	0.384	0.790	0.760	0.244	-5.212
SO4	SEQU1	36.489	-118.829	-0.027	0.000	1.184	0.666	0.993	0.925	0.183	-2.949
SO4	SHEN1	38.523	-78.435	-0.157	0.000	3.355	0.377	2.054	1.866	0.959	-8.397
SO4	SHMI1	37.304	-107.484	-0.018	0.000	0.632	0.292	0.385	0.418	0.089	-4.290
SO4	SHRO1	35.394	-82.774	-0.112	0.000	2.510	0.390	1.583	1.450	0.747	-7.697
SO4	SIAN1	34.091	-110.942	-0.018	0.000	0.757	0.420	0.618	0.624	0.104	-2.843
SO4	SIME1	55.326	-160.506	0.000	0.970	0.460	0.466	0.463	0.463	0.044	0.065
SO4	SIPS1	34.343	-87.339	-0.159	0.000	3.773	0.744	2.336	2.258	1.029	-7.059
SO4	SNPA1	47.422	-121.426	-0.016	0.000	0.466	0.154	0.351	0.310	0.131	-5.292
SO4	STAR1	45.225	-118.513	-0.012	0.000	0.452	0.221	0.336	0.337	0.079	-3.615
SO4	SULA1	45.86	-114	-0.008	0.000	0.344	0.183	0.247	0.264	0.056	-3.209
SO4	SWAN1	35.451	-76.207	-0.136	0.000	3.330	0.751	1.928	1.973	0.767	-6.881
SO4	SYCA1	35.141	-111.969	-0.015	0.000	0.657	0.363	0.548	0.541	0.089	-2.856
SO4	TALL1	38.434	-96.56	-0.067	0.000	2.078	0.796	1.320	1.336	0.371	-5.052
SO4	THBA1	44.663	-105.287	-0.015	0.000	0.676	0.383	0.517	0.499	0.103	-3.092
SO4	THRO1	46.895	-103.378	-0.021	0.000	0.891	0.498	0.682	0.694	0.142	-2.982
SO4	THSI1	44.291	-122.043	-0.009	0.000	0.369	0.196	0.285	0.283	0.067	-3.211
SO4	TONT1	33.655	-111.107	-0.023	0.000	0.933	0.501	0.719	0.717	0.145	-3.176
SO4	TRCR1	62.315	-150.316	-0.003	0.240	0.247	0.188	0.219	0.215	0.054	-1.451
SO4	TRIN1	40.786	-122.805	-0.008	0.003	0.384	0.225	0.310	0.313	0.060	-2.674
SO4	ULBE1	47.582	-108.72	-0.013	0.000	0.578	0.334	0.451	0.456	0.088	-2.822
SO4	UPBU1	35.826	-93.203	-0.098	0.000	2.683	0.819	1.706	1.751	0.591	-5.601
SO4	VIIS1	18.336	-64.796	-0.005	0.249	0.855	0.769	0.844	0.815	0.090	-0.556
SO4	VILA1	40.969	-95.045	-0.073	0.000	2.132	0.745	1.287	1.329	0.400	-5.491
SO4	VOYA2	48.413	-92.829	-0.028	0.000	0.951	0.420	0.685	0.686	0.181	-4.080
SO4	WEMI1	37.659	-107.8	-0.012	0.000	0.494	0.261	0.373	0.378	0.080	-3.239
SO4	WHIT1	33.469	-105.535	-0.018	0.000	0.862	0.520	0.642	0.673	0.123	-2.671
SO4	WHPA1	46.624	-121.388	-0.009	0.000	0.302	0.122	0.220	0.212	0.074	-4.455
SO4	WHPE1	36.585	-105.452	-0.015	0.000	0.562	0.286	0.369	0.409	0.093	-3.556
SO4	WHRI1	39.154	-106.821	-0.010	0.000	0.428	0.234	0.318	0.331	0.067	-3.072
SO4	WICA1	43.558	-103.484	-0.018	0.000	0.717	0.380	0.540	0.548	0.120	-3.231
SO4	WIMO1	34.732	-98.713	-0.070	0.000	2.170	0.839	1.462	1.470	0.420	-4.765
SO4	YELL2	44.565	-110.4	-0.012	0.000	0.423	0.198	0.309	0.310	0.075	-3.813
SO4	YOSE1	37.713	-119.706	-0.016	0.000	0.645	0.340	0.512	0.492	0.113	-3.256
SO4	ZICA1	37.198	-113.151	-0.020	0.000	0.686	0.306	0.466	0.466	0.112	-4.282
NO3	ACAD1	44.377	-68.261	-0.006	0.000	0.186	0.079	0.140	0.130	0.036	-4.338

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
NO3	AGTI1	33.464	-116.971	-0.034	0.000	0.956	0.316	0.762	0.619	0.287	-5.444
NO3	BADL1	43.743	-101.941	-0.001	0.600	0.157	0.143	0.154	0.150	0.029	-0.477
NO3	BALD1	34.058	-109.441	-0.001	0.100	0.098	0.075	0.089	0.086	0.016	-1.405
NO3	BAND1	35.78	-106.266	-0.003	0.002	0.128	0.073	0.108	0.099	0.026	-2.904
NO3	BIBE1	29.303	-103.178	-0.001	0.151	0.142	0.122	0.136	0.132	0.022	-0.791
NO3	BLIS1	38.976	-120.103	-0.003	0.031	0.119	0.070	0.099	0.094	0.024	-2.762
NO3	BOAP1	33.869	-106.852	-0.003	0.001	0.140	0.091	0.118	0.114	0.028	-2.283
NO3	BOND1	40.052	-88.373	-0.055	0.000	1.613	0.561	1.058	1.059	0.372	-5.227
NO3	BOWA1	47.947	-91.495	-0.004	0.002	0.127	0.056	0.095	0.090	0.032	-4.150
NO3	BRCA1	37.618	-112.174	-0.002	0.001	0.122	0.078	0.110	0.099	0.025	-2.335
NO3	BRID1	42.975	-109.758	-0.002	0.049	0.093	0.061	0.081	0.076	0.019	-2.236
NO3	BRIG1	39.465	-74.449	-0.014	0.000	0.614	0.346	0.462	0.473	0.086	-2.981
NO3	BRMA1	44.107	-70.729	-0.007	0.006	0.178	0.054	0.140	0.126	0.040	-5.163
NO3	CABA1	43.833	-70.064	-0.008	0.000	0.283	0.126	0.219	0.201	0.061	-4.122
NO3	CABI1	47.955	-115.671	-0.002	0.005	0.095	0.061	0.078	0.077	0.014	-2.299
NO3	CACO1	41.976	-70.024	-0.007	0.000	0.332	0.193	0.276	0.259	0.049	-2.815
NO3	CACR1	34.454	-94.143	-0.012	0.000	0.440	0.211	0.326	0.319	0.076	-3.773
NO3	CANY1	38.459	-109.821	-0.003	0.001	0.130	0.075	0.100	0.101	0.024	-2.893
NO3	CAPI1	38.302	-111.293	-0.003	0.000	0.131	0.082	0.111	0.104	0.030	-2.489
NO3	CEBL1	38.77	-99.763	-0.012	0.013	0.488	0.251	0.370	0.351	0.109	-3.548
NO3	CHAS1	28.748	-82.555	-0.005	0.006	0.347	0.244	0.303	0.293	0.044	-1.863
NO3	CHIR1	32.009	-109.389	-0.001	0.046	0.120	0.093	0.108	0.106	0.024	-1.304
NO3	COHU1	34.785	-84.627	-0.012	0.000	0.366	0.136	0.265	0.239	0.080	-5.068
NO3	CORI1	45.664	-121.001	-0.003	0.086	0.311	0.249	0.287	0.279	0.049	-1.172
NO3	CRLA1	42.896	-122.136	-0.001	0.086	0.051	0.033	0.045	0.042	0.015	-2.245
NO3	CRM01	43.46	-113.555	-0.005	0.000	0.182	0.096	0.144	0.137	0.035	-3.333
NO3	DENA1	63.723	-148.967	0.000	0.028	0.027	0.018	0.023	0.022	0.005	-1.984
NO3	DOME1	35.728	-118.138	-0.014	0.007	0.435	0.176	0.336	0.292	0.110	-4.671
NO3	DOSO1	39.105	-79.426	-0.001	0.649	0.213	0.194	0.209	0.203	0.039	-0.490
NO3	EGBE1	44.231	-79.783	-0.014	0.090	0.630	0.358	0.457	0.451	0.107	-3.166
NO3	ELDO1	37.701	-94.035	-0.014	0.014	0.596	0.325	0.516	0.475	0.109	-3.002
NO3	EVER1	25.391	-80.681	-0.003	0.009	0.351	0.292	0.317	0.320	0.032	-0.969
NO3	FLAT1	47.773	-114.269	-0.002	0.039	0.089	0.058	0.074	0.071	0.014	-2.266
NO3	FOPE1	48.308	-105.102	0.000	0.934	0.153	0.160	0.167	0.157	0.044	0.206
NO3	FRRE1	39.706	-79.012	-0.001	0.589	0.272	0.258	0.269	0.264	0.040	-0.281
NO3	GAMO1	46.826	-111.711	-0.002	0.002	0.090	0.046	0.070	0.067	0.018	-3.476



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NO3	GICL1	33.22	-108.235	-0.001	0.345	0.076	0.064	0.070	0.070	0.011	-0.914
NO3	GLAC1	48.511	-113.997	-0.003	0.013	0.116	0.067	0.093	0.090	0.022	-2.889
NO3	GRBA1	39.005	-114.216	-0.002	0.002	0.094	0.055	0.076	0.074	0.017	-2.821
NO3	GRCA2	36.066	-112.154	-0.001	0.074	0.113	0.094	0.106	0.103	0.016	-0.974
NO3	GRGU1	44.308	-71.218	-0.002	0.009	0.095	0.048	0.078	0.070	0.023	-3.473
NO3	GRR11	43.937	-91.405	-0.027	0.011	0.872	0.352	0.634	0.571	0.202	-4.789
NO3	GRSA1	37.725	-105.519	-0.002	0.000	0.109	0.065	0.091	0.086	0.022	-2.671
NO3	GRSM1	35.633	-83.942	-0.006	0.000	0.242	0.123	0.189	0.179	0.045	-3.499
NO3	GUMO1	31.833	-104.809	-0.002	0.132	0.179	0.146	0.163	0.162	0.027	-1.071
NO3	HAVO1	19.431	-155.258	-0.001	0.074	0.065	0.049	0.056	0.057	0.010	-1.521
NO3	HECA1	44.97	-116.844	-0.003	0.000	0.113	0.065	0.091	0.088	0.023	-2.868
NO3	HEGL1	36.614	-92.922	-0.010	0.000	0.437	0.246	0.329	0.336	0.076	-2.976
NO3	HOOV1	38.088	-119.177	-0.001	0.306	0.088	0.072	0.084	0.079	0.019	-1.084
NO3	IKBA1	34.34	-111.683	-0.005	0.006	0.218	0.120	0.168	0.166	0.040	-3.115
NO3	ISLE1	47.46	-88.149	-0.003	0.000	0.110	0.053	0.085	0.080	0.022	-3.748
NO3	JARB1	41.893	-115.426	-0.001	0.074	0.060	0.047	0.056	0.053	0.009	-1.331
NO3	JARI1	37.627	-79.512	-0.016	0.000	0.405	0.105	0.278	0.247	0.094	-6.405
NO3	JOSH1	34.07	-116.389	-0.025	0.000	0.646	0.173	0.462	0.397	0.196	-6.272
NO3	KAIS1	37.221	-119.155	-0.004	0.075	0.218	0.139	0.175	0.175	0.049	-2.369
NO3	KALM1	42.552	-124.059	-0.002	0.002	0.093	0.059	0.077	0.075	0.015	-2.395
NO3	LABE1	41.712	-121.507	-0.002	0.002	0.089	0.051	0.074	0.069	0.020	-2.920
NO3	LASU2	40.693	-92.006	-0.036	0.009	1.116	0.441	0.703	0.690	0.222	-5.154
NO3	LAVO1	40.54	-121.577	-0.001	0.006	0.083	0.058	0.070	0.070	0.014	-1.909
NO3	LIGO1	35.972	-81.933	-0.004	0.000	0.174	0.095	0.138	0.133	0.029	-3.158
NO3	LOST1	48.642	-102.402	0.000	0.972	0.344	0.342	0.353	0.343	0.060	-0.025
NO3	MACA1	37.132	-86.148	-0.023	0.000	0.632	0.186	0.445	0.397	0.155	-5.903
NO3	MAVI1	41.331	-70.785	-0.007	0.000	0.421	0.282	0.345	0.341	0.044	-2.147
NO3	MEAD1	36.019	-114.068	-0.003	0.035	0.152	0.103	0.131	0.123	0.025	-2.091
NO3	MELA1	48.487	-104.476	0.002	0.248	0.205	0.239	0.236	0.223	0.059	0.796
NO3	MEVE1	37.198	-108.491	-0.003	0.000	0.134	0.074	0.102	0.102	0.027	-3.110
NO3	MING1	36.972	-90.143	-0.022	0.000	0.610	0.194	0.417	0.391	0.138	-5.595
NO3	MOHO1	45.289	-121.784	-0.002	0.030	0.095	0.055	0.076	0.074	0.019	-2.865
NO3	MOMO1	41.821	-73.297	-0.008	0.014	0.349	0.202	0.281	0.268	0.058	-2.880
NO3	MONT1	47.122	-113.154	-0.001	0.021	0.053	0.034	0.045	0.043	0.010	-2.344
NO3	MOOS1	45.126	-67.266	-0.005	0.000	0.163	0.071	0.119	0.115	0.033	-4.254
NO3	MORA1	46.758	-122.124	-0.003	0.000	0.099	0.044	0.074	0.070	0.020	-4.125

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NO3	MOZI1	40.538	-106.677	-0.002	0.039	0.106	0.075	0.096	0.090	0.021	-1.786
NO3	NEBR1	41.889	-100.339	-0.005	0.217	0.317	0.214	0.259	0.258	0.067	-2.098
NO3	NOAB1	44.745	-109.382	-0.002	0.000	0.096	0.050	0.078	0.072	0.021	-3.346
NO3	NOCA1	48.732	-121.065	-0.001	0.000	0.060	0.038	0.051	0.049	0.008	-2.379
NO3	NOCH1	45.65	-106.557	-0.001	0.070	0.090	0.075	0.080	0.081	0.013	-1.002
NO3	OKEF1	30.74	-82.128	-0.004	0.003	0.282	0.204	0.251	0.241	0.041	-1.694
NO3	OLYM1	48.007	-122.973	-0.004	0.045	0.208	0.134	0.169	0.167	0.034	-2.359
NO3	ORPI1	31.951	-112.802	-0.003	0.039	0.260	0.208	0.227	0.230	0.029	-1.175
NO3	PASA1	48.388	-119.927	-0.001	0.004	0.068	0.045	0.056	0.056	0.010	-2.146
NO3	PEFO1	35.078	-109.769	-0.004	0.000	0.171	0.089	0.130	0.128	0.031	-3.365
NO3	PENO1	44.948	-68.648	-0.002	0.250	0.162	0.117	0.138	0.133	0.022	-1.760
NO3	PINN1	36.483	-121.157	-0.015	0.000	0.587	0.305	0.439	0.438	0.093	-3.379
NO3	PMRF1	44.528	-72.869	-0.004	0.000	0.183	0.105	0.145	0.142	0.031	-2.864
NO3	PORE1	38.122	-122.909	-0.010	0.000	0.349	0.162	0.286	0.251	0.080	-3.936
NO3	PRIS1	46.696	-68.033	-0.004	0.000	0.143	0.066	0.105	0.102	0.028	-3.971
NO3	QUCI1	39.943	-81.338	-0.005	0.009	0.363	0.260	0.344	0.309	0.075	-1.756
NO3	QURE1	42.299	-72.335	-0.007	0.026	0.305	0.171	0.262	0.249	0.048	-2.827
NO3	QUVA1	33.294	-111.286	-0.005	0.004	0.251	0.159	0.224	0.212	0.033	-2.274
NO3	RAFA1	34.734	-120.007	-0.013	0.000	0.515	0.274	0.429	0.388	0.122	-3.260
NO3	REDW1	41.561	-124.084	-0.003	0.016	0.157	0.093	0.126	0.124	0.032	-2.712
NO3	ROMA1	32.941	-79.657	-0.005	0.000	0.329	0.236	0.281	0.280	0.037	-1.744
NO3	ROMO1	40.278	-105.546	-0.003	0.001	0.123	0.073	0.111	0.097	0.031	-2.703
NO3	SACR1	33.46	-104.404	-0.005	0.009	0.352	0.249	0.317	0.298	0.062	-1.819
NO3	SAGA1	34.297	-118.028	-0.022	0.000	0.685	0.271	0.495	0.456	0.168	-4.766
NO3	SAGO1	34.194	-116.913	-0.063	0.000	1.241	0.042	0.835	0.610	0.451	-10.351
NO3	SAGU1	32.175	-110.737	-0.004	0.006	0.257	0.185	0.223	0.219	0.031	-1.723
NO3	SAMA1	30.093	-84.161	-0.003	0.028	0.279	0.222	0.252	0.249	0.037	-1.221
NO3	SAPE1	36.014	-106.845	-0.002	0.000	0.121	0.075	0.099	0.097	0.019	-2.505
NO3	SAWE1	32.249	-111.218	-0.004	0.006	0.293	0.223	0.252	0.254	0.036	-1.436
NO3	SAWT1	44.171	-114.927	-0.001	0.019	0.049	0.038	0.043	0.043	0.007	-1.422
NO3	SENE1	46.289	-85.95	-0.006	0.004	0.175	0.066	0.126	0.118	0.046	-4.911
NO3	SEQU1	36.489	-118.829	-0.022	0.005	0.727	0.314	0.561	0.510	0.162	-4.265
NO3	SHEN1	38.523	-78.435	-0.011	0.000	0.444	0.232	0.350	0.332	0.085	-3.356
NO3	SHMI1	37.304	-107.484	-0.002	0.037	0.125	0.084	0.096	0.099	0.015	-2.156
NO3	SHRO1	35.394	-82.774	-0.001	0.221	0.177	0.151	0.173	0.164	0.024	-0.850
NO3	SIAN1	34.091	-110.942	-0.007	0.000	0.184	0.059	0.137	0.132	0.035	-4.992

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NO3	SIME1	55.326	-160.506	0.000	0.704	0.062	0.065	0.063	0.064	0.007	0.238
NO3	SIPS1	34.343	-87.339	-0.016	0.000	0.422	0.123	0.293	0.265	0.100	-5.958
NO3	SNPA1	47.422	-121.426	-0.006	0.001	0.195	0.081	0.151	0.135	0.045	-4.464
NO3	STAR1	45.225	-118.513	-0.003	0.000	0.124	0.063	0.093	0.092	0.026	-3.493
NO3	SULA1	45.86	-114	-0.001	0.002	0.064	0.036	0.051	0.049	0.015	-2.997
NO3	SWAN1	35.451	-76.207	-0.002	0.151	0.296	0.265	0.285	0.280	0.039	-0.594
NO3	SYCA1	35.141	-111.969	-0.003	0.042	0.168	0.116	0.148	0.146	0.026	-1.851
NO3	TALL1	38.434	-96.56	-0.020	0.000	0.625	0.243	0.446	0.404	0.138	-4.980
NO3	THBA1	44.663	-105.287	-0.002	0.038	0.118	0.087	0.095	0.099	0.018	-1.679
NO3	THRO1	46.895	-103.378	-0.005	0.033	0.237	0.140	0.196	0.186	0.051	-2.743
NO3	THSI1	44.291	-122.043	-0.001	0.016	0.061	0.033	0.047	0.046	0.013	-3.152
NO3	TONT1	33.655	-111.107	-0.004	0.000	0.207	0.127	0.176	0.165	0.036	-2.549
NO3	TRCR1	62.315	-150.316	0.000	0.344	0.035	0.030	0.032	0.032	0.006	-0.829
NO3	TRIN1	40.786	-122.805	-0.002	0.002	0.078	0.039	0.066	0.060	0.016	-3.446
NO3	ULBE1	47.582	-108.72	-0.001	0.123	0.073	0.052	0.067	0.062	0.015	-1.783
NO3	UPBU1	35.826	-93.203	-0.014	0.000	0.524	0.256	0.353	0.383	0.090	-3.688
NO3	VIIS1	18.336	-64.796	0.002	0.298	0.198	0.232	0.217	0.217	0.018	0.831
NO3	VILA1	40.969	-95.045	-0.032	0.002	1.060	0.449	0.760	0.706	0.239	-4.559
NO3	VOYA2	48.413	-92.829	-0.005	0.000	0.141	0.050	0.105	0.093	0.037	-5.168
NO3	WEMI1	37.659	-107.8	-0.001	0.064	0.066	0.051	0.062	0.058	0.012	-1.412
NO3	WHIT1	33.469	-105.535	-0.001	0.211	0.115	0.097	0.104	0.105	0.015	-0.906
NO3	WHPA1	46.624	-121.388	-0.001	0.033	0.052	0.029	0.044	0.040	0.011	-2.938
NO3	WHPE1	36.585	-105.452	-0.002	0.000	0.113	0.074	0.093	0.092	0.017	-2.271
NO3	WHRI1	39.154	-106.821	-0.001	0.019	0.096	0.070	0.087	0.083	0.015	-1.641
NO3	WICA1	43.558	-103.484	-0.002	0.033	0.121	0.084	0.108	0.102	0.022	-1.915
NO3	WIMO1	34.732	-98.713	-0.007	0.033	0.420	0.285	0.350	0.349	0.072	-2.033
NO3	YELL2	44.565	-110.4	-0.002	0.003	0.111	0.071	0.089	0.090	0.020	-2.328
NO3	YOSE1	37.713	-119.706	-0.003	0.064	0.183	0.120	0.157	0.150	0.039	-2.222
NO3	ZICA1	37.198	-113.151	-0.003	0.000	0.147	0.082	0.108	0.110	0.023	-3.094
OC	ACAD1	44.377	-68.261	-0.012	0.000	0.729	0.505	0.625	0.617	0.089	-1.909
OC	AGTI1	33.464	-116.971	-0.035	0.000	1.276	0.620	0.978	0.948	0.220	-3.643
OC	BADL1	43.743	-101.941	-0.010	0.069	0.662	0.480	0.596	0.571	0.176	-1.673
OC	BALD1	34.058	-109.441	-0.011	0.007	0.561	0.351	0.452	0.451	0.105	-2.458
OC	BAND1	35.78	-106.266	-0.015	0.000	0.700	0.414	0.574	0.557	0.104	-2.705
OC	BIBE1	29.303	-103.178	-0.004	0.119	0.594	0.509	0.568	0.552	0.076	-0.805
OC	BLIS1	38.976	-120.103	-0.006	0.221	0.651	0.530	0.630	0.594	0.113	-1.074

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OC	BOAP1	33.869	-106.852	-0.012	0.000	0.711	0.482	0.607	0.597	0.103	-2.020
OC	BOND1	40.052	-88.373	-0.027	0.000	1.407	0.901	1.137	1.141	0.168	-2.333
OC	BOWA1	47.947	-91.495	-0.018	0.000	0.766	0.425	0.637	0.596	0.160	-3.006
OC	BRCA1	37.618	-112.174	-0.007	0.002	0.425	0.288	0.371	0.357	0.055	-2.017
OC	BRID1	42.975	-109.758	-0.005	0.092	0.396	0.308	0.356	0.352	0.058	-1.315
OC	BRIG1	39.465	-74.449	-0.028	0.000	1.429	0.901	1.171	1.151	0.195	-2.416
OC	BRMA1	44.107	-70.729	-0.021	0.020	1.089	0.685	0.898	0.919	0.122	-2.316
OC	CABA1	43.833	-70.064	-0.016	0.009	1.200	0.898	1.050	1.041	0.155	-1.527
OC	CABI1	47.955	-115.671	-0.008	0.086	0.687	0.526	0.590	0.602	0.117	-1.411
OC	CACO1	41.976	-70.024	-0.017	0.000	0.870	0.553	0.717	0.703	0.109	-2.375
OC	CACR1	34.454	-94.143	-0.030	0.000	1.577	1.001	1.325	1.274	0.245	-2.377
OC	CANY1	38.459	-109.821	-0.007	0.005	0.419	0.293	0.361	0.356	0.055	-1.861
OC	CAPI1	38.302	-111.293	-0.005	0.007	0.426	0.322	0.384	0.368	0.047	-1.488
OC	CEBL1	38.77	-99.763	-0.008	0.217	0.851	0.696	0.765	0.762	0.090	-1.070
OC	CHAS1	28.748	-82.555	-0.026	0.000	1.540	1.050	1.315	1.295	0.206	-1.993
OC	CHIR1	32.009	-109.389	-0.004	0.085	0.419	0.345	0.392	0.382	0.059	-1.022
OC	COHU1	34.785	-84.627	-0.037	0.002	1.773	1.067	1.372	1.383	0.268	-2.686
OC	CORI1	45.664	-121.001	-0.019	0.003	1.120	0.750	0.958	0.935	0.197	-2.085
OC	CRLA1	42.896	-122.136	-0.005	0.074	0.419	0.320	0.374	0.367	0.062	-1.412
OC	CRMO1	43.46	-113.555	-0.007	0.028	0.473	0.346	0.422	0.406	0.067	-1.650
OC	DENA1	63.723	-148.967	-0.002	0.080	0.218	0.179	0.200	0.198	0.030	-1.022
OC	DOME1	35.728	-118.138	-0.012	0.016	1.038	0.816	0.950	0.921	0.119	-1.267
OC	DOSO1	39.105	-79.426	-0.035	0.000	1.338	0.668	1.044	1.003	0.259	-3.517
OC	EGBE1	44.231	-79.783	-0.004	0.298	0.948	0.878	0.896	0.902	0.082	-0.410
OC	EVER1	25.391	-80.681	-0.016	0.001	0.868	0.561	0.690	0.706	0.159	-2.293
OC	FLAT1	47.773	-114.269	-0.007	0.249	0.627	0.495	0.586	0.551	0.112	-1.260
OC	FOPE1	48.308	-105.102	-0.009	0.017	0.659	0.494	0.564	0.564	0.079	-1.536
OC	FRRE1	39.706	-79.012	-0.030	0.004	1.372	0.802	1.037	1.027	0.178	-2.921
OC	GAMO1	46.826	-111.711	-0.006	0.023	0.404	0.296	0.344	0.347	0.068	-1.634
OC	GICL1	33.22	-108.235	-0.014	0.001	0.590	0.331	0.501	0.461	0.133	-2.956
OC	GLAC1	48.511	-113.997	-0.030	0.000	1.386	0.811	1.165	1.098	0.231	-2.756
OC	GRBA1	39.005	-114.216	-0.012	0.000	0.523	0.296	0.412	0.410	0.098	-2.918
OC	GRCA2	36.066	-112.154	-0.008	0.016	0.448	0.296	0.365	0.372	0.069	-2.141
OC	GRGU1	44.308	-71.218	-0.016	0.000	0.779	0.477	0.615	0.620	0.111	-2.562
OC	GRII1	43.937	-91.405	-0.012	0.002	1.079	0.845	0.958	0.943	0.109	-1.306
OC	GRSA1	37.725	-105.519	-0.005	0.105	0.577	0.481	0.538	0.529	0.075	-0.954

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OC	GRSM1	35.633	-83.942	-0.040	0.000	1.628	0.872	1.293	1.250	0.297	-3.185
OC	GUMO1	31.833	-104.809	-0.007	0.016	0.613	0.477	0.545	0.545	0.079	-1.319
OC	HAVO1	19.431	-155.258	-0.003	0.421	0.126	0.077	0.136	0.101	0.113	-2.561
OC	HECA1	44.97	-116.844	-0.013	0.001	0.863	0.608	0.740	0.729	0.117	-1.845
OC	HEGL1	36.614	-92.922	-0.028	0.000	1.581	1.052	1.351	1.303	0.192	-2.134
OC	HOOV1	38.088	-119.177	0.000	0.910	0.366	0.361	0.365	0.363	0.067	-0.073
OC	IKBA1	34.34	-111.683	-0.011	0.006	0.654	0.438	0.577	0.546	0.154	-2.079
OC	ISLE1	47.46	-88.149	-0.009	0.027	0.653	0.490	0.562	0.571	0.097	-1.494
OC	JARB1	41.893	-115.426	-0.007	0.008	0.413	0.282	0.354	0.348	0.062	-1.979
OC	JARI1	37.627	-79.512	-0.030	0.000	1.988	1.424	1.622	1.691	0.220	-1.755
OC	JOSH1	34.07	-116.389	-0.019	0.000	0.793	0.428	0.636	0.610	0.136	-3.144
OC	KAIS1	37.221	-119.155	-0.009	0.140	0.728	0.557	0.633	0.633	0.133	-1.419
OC	KALM1	42.552	-124.059	-0.011	0.092	0.841	0.623	0.769	0.732	0.123	-1.570
OC	LABE1	41.712	-121.507	-0.013	0.004	0.738	0.500	0.606	0.619	0.124	-2.021
OC	LASU2	40.693	-92.006	-0.012	0.015	1.154	0.927	1.034	1.011	0.090	-1.182
OC	LAVO1	40.54	-121.577	-0.010	0.038	0.628	0.442	0.549	0.535	0.115	-1.827
OC	LIGO1	35.972	-81.933	-0.026	0.006	1.584	1.095	1.359	1.340	0.249	-1.920
OC	LOST1	48.642	-102.402	-0.013	0.000	0.730	0.492	0.621	0.611	0.128	-2.051
OC	MACA1	37.132	-86.148	-0.036	0.000	1.766	1.090	1.461	1.428	0.245	-2.490
OC	MAVI1	41.331	-70.785	-0.016	0.000	0.870	0.560	0.710	0.691	0.129	-2.359
OC	MEAD1	36.019	-114.068	-0.009	0.000	0.508	0.336	0.404	0.408	0.057	-2.218
OC	MELA1	48.487	-104.476	-0.007	0.014	0.566	0.439	0.529	0.503	0.074	-1.326
OC	MEVE1	37.198	-108.491	-0.013	0.000	0.528	0.285	0.416	0.407	0.099	-3.143
OC	MING1	36.972	-90.143	-0.036	0.000	1.915	1.238	1.581	1.505	0.300	-2.369
OC	MOHO1	45.289	-121.784	-0.005	0.052	0.339	0.236	0.308	0.287	0.099	-1.886
OC	MOMO1	41.821	-73.297	-0.021	0.000	1.029	0.637	0.851	0.812	0.154	-2.541
OC	MONT1	47.122	-113.154	-0.010	0.064	0.770	0.573	0.671	0.667	0.109	-1.554
OC	MOOS1	45.126	-67.266	-0.022	0.000	0.869	0.448	0.705	0.659	0.149	-3.366
OC	MORA1	46.758	-122.124	-0.018	0.004	0.800	0.466	0.675	0.633	0.185	-2.777
OC	MOZI1	40.538	-106.677	-0.006	0.011	0.399	0.277	0.323	0.335	0.057	-1.927
OC	NEBR1	41.889	-100.339	-0.006	0.058	0.672	0.553	0.597	0.603	0.064	-1.033
OC	NOAB1	44.745	-109.382	-0.009	0.011	0.395	0.231	0.295	0.309	0.088	-2.796
OC	NOCA1	48.732	-121.065	-0.007	0.136	0.418	0.291	0.384	0.355	0.088	-1.894
OC	NOCH1	45.65	-106.557	-0.005	0.070	0.470	0.376	0.430	0.416	0.067	-1.190
OC	OKEF1	30.74	-82.128	-0.038	0.000	1.732	1.010	1.455	1.371	0.269	-2.772
OC	OLYM1	48.007	-122.973	-0.020	0.001	0.710	0.334	0.547	0.502	0.148	-3.945

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OC	ORPI1	31.951	-112.802	-0.008	0.118	0.499	0.341	0.439	0.408	0.103	-2.033
OC	PASA1	48.388	-119.927	-0.004	0.278	0.416	0.341	0.380	0.376	0.089	-1.044
OC	PEFO1	35.078	-109.769	-0.012	0.000	0.590	0.366	0.503	0.478	0.110	-2.469
OC	PENO1	44.948	-68.648	-0.014	0.139	1.129	0.870	0.966	0.958	0.113	-1.426
OC	PINN1	36.483	-121.157	-0.016	0.002	0.956	0.644	0.816	0.800	0.128	-2.058
OC	PITT1	40.465	-79.961	-0.042	0.005	2.131	1.340	1.711	1.653	0.296	-2.518
OC	PMRF1	44.528	-72.869	-0.021	0.000	1.015	0.615	0.807	0.805	0.123	-2.616
OC	PORE1	38.122	-122.909	-0.008	0.060	0.414	0.261	0.345	0.338	0.085	-2.388
OC	PRIS1	46.696	-68.033	-0.025	0.000	1.134	0.654	0.905	0.881	0.162	-2.866
OC	QUCI1	39.943	-81.338	-0.025	0.000	1.420	0.953	1.201	1.174	0.165	-2.094
OC	QURE1	42.299	-72.335	-0.026	0.001	1.262	0.763	0.997	1.052	0.134	-2.496
OC	QUVA1	33.294	-111.286	-0.018	0.003	0.733	0.397	0.593	0.591	0.108	-2.993
OC	RAFA1	34.734	-120.007	-0.020	0.000	0.843	0.469	0.713	0.656	0.143	-3.004
OC	REDW1	41.561	-124.084	-0.010	0.014	0.497	0.312	0.417	0.405	0.091	-2.407
OC	ROMA1	32.941	-79.657	-0.030	0.000	1.577	1.016	1.328	1.296	0.216	-2.280
OC	ROMO1	40.278	-105.546	-0.009	0.000	0.513	0.335	0.432	0.424	0.080	-2.214
OC	SACR1	33.46	-104.404	-0.005	0.100	0.739	0.645	0.688	0.690	0.071	-0.721
OC	SAGA1	34.297	-118.028	-0.020	0.000	0.849	0.469	0.657	0.639	0.153	-3.133
OC	SAGO1	34.194	-116.913	-0.021	0.000	0.912	0.514	0.752	0.713	0.168	-2.945
OC	SAGU1	32.175	-110.737	-0.012	0.009	0.671	0.452	0.596	0.556	0.104	-2.074
OC	SAMA1	30.093	-84.161	-0.028	0.002	1.515	0.977	1.213	1.232	0.196	-2.299
OC	SAPE1	36.014	-106.845	-0.008	0.002	0.440	0.297	0.362	0.365	0.067	-2.060
OC	SAWE1	32.249	-111.218	-0.011	0.037	0.748	0.543	0.646	0.635	0.109	-1.700
OC	SAWT1	44.171	-114.927	-0.019	0.000	0.934	0.571	0.744	0.743	0.131	-2.577
OC	SENE1	46.289	-85.95	-0.012	0.005	0.788	0.567	0.667	0.677	0.122	-1.715
OC	SEQU1	36.489	-118.829	-0.030	0.023	2.031	1.455	1.712	1.743	0.318	-1.738
OC	SHEN1	38.523	-78.435	-0.016	0.000	1.071	0.759	0.921	0.915	0.118	-1.793
OC	SHMI1	37.304	-107.484	-0.009	0.015	0.518	0.343	0.430	0.407	0.056	-2.258
OC	SHRO1	35.394	-82.774	-0.028	0.001	1.176	0.648	0.914	0.926	0.226	-2.999
OC	SIAN1	34.091	-110.942	-0.029	0.000	0.915	0.368	0.731	0.699	0.187	-4.120
OC	SIME1	55.326	-160.506	-0.002	0.306	0.151	0.119	0.129	0.133	0.031	-1.267
OC	SIPS1	34.343	-87.339	-0.041	0.000	1.988	1.211	1.651	1.600	0.287	-2.555
OC	SNPA1	47.422	-121.426	-0.016	0.001	0.673	0.364	0.501	0.519	0.124	-3.133
OC	STAR1	45.225	-118.513	-0.026	0.002	0.826	0.341	0.662	0.584	0.253	-4.371
OC	SULA1	45.86	-114	-0.011	0.004	0.529	0.317	0.417	0.418	0.086	-2.672
OC	SWAN1	35.451	-76.207	-0.007	0.278	1.001	0.874	0.920	0.935	0.164	-0.717

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OC	SYCA1	35.141	-111.969	-0.015	0.012	0.867	0.585	0.753	0.748	0.128	-1.984
OC	TALL1	38.434	-96.56	-0.020	0.003	1.227	0.846	1.052	1.006	0.141	-1.991
OC	THBA1	44.663	-105.287	-0.007	0.033	0.580	0.456	0.518	0.502	0.074	-1.300
OC	THRO1	46.895	-103.378	-0.011	0.003	0.654	0.451	0.541	0.552	0.086	-1.936
OC	THSI1	44.291	-122.043	-0.007	0.153	0.548	0.420	0.479	0.484	0.097	-1.387
OC	TONT1	33.655	-111.107	-0.014	0.000	0.770	0.503	0.628	0.637	0.107	-2.214
OC	TRCR1	62.315	-150.316	0.001	0.426	0.238	0.261	0.258	0.251	0.041	0.467
OC	TRIN1	40.786	-122.805	-0.015	0.024	0.726	0.442	0.619	0.599	0.121	-2.495
OC	ULBE1	47.582	-108.72	-0.007	0.027	0.542	0.410	0.485	0.476	0.065	-1.450
OC	UPBU1	35.826	-93.203	-0.023	0.001	1.431	1.000	1.262	1.216	0.194	-1.868
OC	VIIS1	18.336	-64.796	0.002	0.410	0.115	0.144	0.145	0.129	0.042	1.205
OC	VILA1	40.969	-95.045	-0.016	0.007	1.123	0.825	0.959	0.950	0.104	-1.653
OC	VOYA2	48.413	-92.829	-0.015	0.000	0.825	0.537	0.666	0.681	0.128	-2.221
OC	WEMI1	37.659	-107.8	-0.009	0.001	0.486	0.312	0.400	0.399	0.073	-2.291
OC	WHIT1	33.469	-105.535	-0.009	0.014	0.592	0.421	0.481	0.497	0.075	-1.807
OC	WHPA1	46.624	-121.388	-0.004	0.044	0.263	0.182	0.226	0.222	0.057	-1.930
OC	WHPE1	36.585	-105.452	-0.010	0.002	0.447	0.254	0.336	0.345	0.075	-2.949
OC	WHRI1	39.154	-106.821	-0.007	0.000	0.309	0.167	0.258	0.238	0.057	-3.146
OC	WICA1	43.558	-103.484	-0.005	0.153	0.577	0.478	0.513	0.528	0.072	-0.981
OC	WIMO1	34.732	-98.713	-0.018	0.011	1.155	0.823	1.016	0.980	0.147	-1.788
OC	YELL2	44.565	-110.4	-0.007	0.019	0.475	0.349	0.408	0.412	0.069	-1.601
OC	YOSE1	37.713	-119.706	-0.010	0.119	0.954	0.768	0.842	0.861	0.165	-1.138
OC	ZICA1	37.198	-113.151	-0.008	0.007	0.514	0.368	0.442	0.430	0.060	-1.787
EC	ACAD1	44.377	-68.261	-0.006	0.000	0.160	0.045	0.120	0.102	0.040	-5.935
EC	AGTI1	33.464	-116.971	-0.016	0.000	0.360	0.052	0.261	0.206	0.106	-7.876
EC	BADL1	43.743	-101.941	-0.004	0.000	0.125	0.052	0.095	0.088	0.028	-4.386
EC	BALD1	34.058	-109.441	-0.003	0.000	0.107	0.046	0.080	0.075	0.024	-4.242
EC	BAND1	35.78	-106.266	-0.004	0.000	0.136	0.057	0.103	0.097	0.028	-4.276
EC	BIBE1	29.303	-103.178	-0.002	0.016	0.128	0.087	0.107	0.108	0.022	-1.974
EC	BLIS1	38.976	-120.103	-0.003	0.000	0.120	0.054	0.100	0.089	0.027	-3.901
EC	BOAP1	33.869	-106.852	-0.004	0.000	0.161	0.080	0.124	0.120	0.034	-3.554
EC	BOND1	40.052	-88.373	-0.013	0.000	0.458	0.214	0.331	0.330	0.082	-3.893
EC	BOWA1	47.947	-91.495	-0.005	0.000	0.129	0.043	0.098	0.086	0.032	-5.304
EC	BRCA1	37.618	-112.174	-0.003	0.000	0.085	0.035	0.067	0.060	0.020	-4.449
EC	BRID1	42.975	-109.758	-0.002	0.001	0.072	0.029	0.053	0.050	0.017	-4.455
EC	BRIG1	39.465	-74.449	-0.015	0.000	0.420	0.142	0.302	0.274	0.102	-5.354

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EC	BRMA1	44.107	-70.729	-0.009	0.000	0.274	0.095	0.190	0.198	0.047	-4.738
EC	CABA1	43.833	-70.064	-0.010	0.000	0.326	0.138	0.245	0.227	0.064	-4.367
EC	CABI1	47.955	-115.671	-0.003	0.028	0.099	0.050	0.083	0.073	0.025	-3.519
EC	CACO1	41.976	-70.024	-0.007	0.000	0.195	0.059	0.139	0.124	0.047	-5.764
EC	CACR1	34.454	-94.143	-0.008	0.000	0.285	0.129	0.220	0.203	0.058	-4.036
EC	CANY1	38.459	-109.821	-0.003	0.000	0.084	0.035	0.066	0.060	0.019	-4.394
EC	CAPI1	38.302	-111.293	-0.003	0.002	0.089	0.038	0.069	0.061	0.021	-4.494
EC	CEBL1	38.77	-99.763	-0.005	0.008	0.184	0.083	0.130	0.125	0.032	-4.226
EC	CHAS1	28.748	-82.555	-0.014	0.000	0.405	0.146	0.317	0.276	0.111	-4.963
EC	CHIR1	32.009	-109.389	-0.003	0.002	0.096	0.044	0.077	0.070	0.020	-3.900
EC	COHU1	34.785	-84.627	-0.012	0.000	0.343	0.121	0.243	0.220	0.077	-5.315
EC	CORI1	45.664	-121.001	-0.009	0.000	0.300	0.132	0.229	0.216	0.065	-4.095
EC	CRLA1	42.896	-122.136	-0.004	0.000	0.119	0.047	0.083	0.081	0.026	-4.688
EC	CRMO1	43.46	-113.555	-0.002	0.002	0.080	0.037	0.064	0.057	0.017	-4.003
EC	DENA1	63.723	-148.967	-0.002	0.000	0.046	0.016	0.033	0.031	0.011	-5.010
EC	DOME1	35.728	-118.138	-0.007	0.000	0.221	0.089	0.157	0.152	0.048	-4.576
EC	DOSO1	39.105	-79.426	-0.012	0.000	0.314	0.093	0.232	0.203	0.083	-5.722
EC	EGBE1	44.231	-79.783	-0.006	0.014	0.300	0.184	0.233	0.223	0.042	-2.752
EC	EVER1	25.391	-80.681	-0.006	0.000	0.183	0.067	0.137	0.122	0.046	-4.968
EC	FLAT1	47.773	-114.269	-0.002	0.084	0.099	0.055	0.080	0.074	0.024	-3.148
EC	FOPE1	48.308	-105.102	-0.003	0.026	0.120	0.073	0.096	0.093	0.019	-2.702
EC	FRRE1	39.706	-79.012	-0.012	0.000	0.393	0.159	0.282	0.251	0.073	-4.906
EC	GAMO1	46.826	-111.711	-0.002	0.013	0.062	0.032	0.047	0.046	0.014	-3.388
EC	GICL1	33.22	-108.235	-0.003	0.000	0.105	0.040	0.078	0.073	0.025	-4.693
EC	GLAC1	48.511	-113.997	-0.009	0.000	0.338	0.162	0.246	0.250	0.062	-3.702
EC	GRBA1	39.005	-114.216	-0.004	0.000	0.088	0.016	0.065	0.052	0.026	-7.331
EC	GRCA2	36.066	-112.154	-0.003	0.000	0.090	0.029	0.065	0.060	0.022	-5.422
EC	GRGU1	44.308	-71.218	-0.005	0.000	0.164	0.065	0.120	0.112	0.033	-4.648
EC	GRR11	43.937	-91.405	-0.009	0.000	0.308	0.146	0.220	0.214	0.051	-3.985
EC	GRSA1	37.725	-105.519	-0.002	0.000	0.102	0.056	0.078	0.079	0.018	-3.028
EC	GRSM1	35.633	-83.942	-0.012	0.000	0.359	0.123	0.271	0.241	0.092	-5.147
EC	GUMO1	31.833	-104.809	-0.001	0.330	0.098	0.082	0.093	0.090	0.020	-0.899
EC	HAVO1	19.431	-155.258	-0.001	0.000	0.026	0.009	0.020	0.017	0.006	-5.137
EC	HECA1	44.97	-116.844	-0.004	0.000	0.135	0.063	0.102	0.097	0.026	-3.896
EC	HEGL1	36.614	-92.922	-0.008	0.000	0.330	0.170	0.258	0.246	0.061	-3.423
EC	HOOV1	38.088	-119.177	-0.002	0.014	0.074	0.032	0.054	0.051	0.018	-4.423



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EC	IKBA1	34.34	-111.683	-0.004	0.000	0.134	0.057	0.104	0.096	0.029	-4.214
EC	ISLE1	47.46	-88.149	-0.003	0.002	0.116	0.055	0.096	0.086	0.026	-3.725
EC	JARB1	41.893	-115.426	-0.002	0.002	0.061	0.025	0.047	0.043	0.016	-4.444
EC	JARI1	37.627	-79.512	-0.016	0.000	0.569	0.274	0.419	0.414	0.114	-3.761
EC	JOSH1	34.07	-116.389	-0.009	0.000	0.224	0.048	0.149	0.136	0.054	-6.810
EC	KAIS1	37.221	-119.155	-0.003	0.025	0.130	0.065	0.100	0.094	0.027	-3.606
EC	KALM1	42.552	-124.059	-0.003	0.002	0.122	0.064	0.099	0.093	0.030	-3.302
EC	LABE1	41.712	-121.507	-0.004	0.000	0.121	0.043	0.086	0.082	0.030	-5.011
EC	LASU2	40.693	-92.006	-0.008	0.006	0.333	0.187	0.244	0.240	0.057	-3.203
EC	LAVO1	40.54	-121.577	-0.004	0.000	0.113	0.047	0.089	0.080	0.029	-4.372
EC	LIGO1	35.972	-81.933	-0.013	0.000	0.378	0.122	0.281	0.250	0.094	-5.391
EC	LOST1	48.642	-102.402	0.001	0.650	0.137	0.150	0.147	0.143	0.027	0.464
EC	MACA1	37.132	-86.148	-0.013	0.000	0.443	0.199	0.340	0.321	0.098	-4.014
EC	MAVI1	41.331	-70.785	-0.006	0.000	0.195	0.073	0.137	0.124	0.045	-5.205
EC	MEAD1	36.019	-114.068	-0.004	0.000	0.113	0.039	0.076	0.070	0.024	-5.577
EC	MELA1	48.487	-104.476	-0.001	0.126	0.119	0.091	0.106	0.105	0.018	-1.397
EC	MEVE1	37.198	-108.491	-0.003	0.000	0.091	0.034	0.069	0.062	0.023	-4.848
EC	MING1	36.972	-90.143	-0.012	0.001	0.471	0.243	0.344	0.333	0.093	-3.611
EC	MOHO1	45.289	-121.784	-0.003	0.001	0.078	0.026	0.058	0.052	0.024	-5.270
EC	MOMO1	41.821	-73.297	-0.008	0.000	0.250	0.104	0.192	0.169	0.055	-4.543
EC	MONT1	47.122	-113.154	-0.002	0.054	0.109	0.070	0.085	0.089	0.020	-2.340
EC	MOOS1	45.126	-67.266	-0.008	0.000	0.182	0.038	0.123	0.110	0.049	-6.879
EC	MORA1	46.758	-122.124	-0.008	0.000	0.196	0.052	0.152	0.124	0.059	-6.114
EC	MOZI1	40.538	-106.677	-0.002	0.005	0.070	0.032	0.053	0.050	0.016	-4.083
EC	NEBR1	41.889	-100.339	-0.004	0.000	0.145	0.070	0.106	0.101	0.027	-3.929
EC	NOAB1	44.745	-109.382	-0.002	0.033	0.056	0.019	0.044	0.037	0.016	-5.287
EC	NOCA1	48.732	-121.065	-0.003	0.001	0.081	0.024	0.060	0.052	0.024	-5.749
EC	NOCH1	45.65	-106.557	-0.002	0.021	0.085	0.052	0.070	0.066	0.017	-2.625
EC	OKEF1	30.74	-82.128	-0.011	0.000	0.346	0.140	0.255	0.243	0.078	-4.453
EC	OLYM1	48.007	-122.973	-0.005	0.000	0.138	0.036	0.088	0.081	0.034	-6.614
EC	ORPI1	31.951	-112.802	-0.004	0.000	0.116	0.048	0.081	0.077	0.023	-4.662
EC	PASA1	48.388	-119.927	-0.002	0.005	0.068	0.029	0.050	0.048	0.016	-4.268
EC	PEFO1	35.078	-109.769	-0.007	0.000	0.224	0.096	0.158	0.160	0.050	-4.240
EC	PENO1	44.948	-68.648	-0.009	0.003	0.319	0.148	0.209	0.207	0.044	-4.350
EC	PINN1	36.483	-121.157	-0.008	0.000	0.226	0.067	0.157	0.146	0.058	-5.735
EC	PITT1	40.465	-79.961	-0.028	0.000	0.969	0.432	0.681	0.644	0.158	-4.386

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EC	PMRF1	44.528	-72.869	-0.007	0.000	0.214	0.083	0.166	0.145	0.046	-4.745
EC	PORE1	38.122	-122.909	-0.003	0.000	0.062	0.009	0.041	0.036	0.019	-7.812
EC	PRIS1	46.696	-68.033	-0.010	0.000	0.278	0.083	0.206	0.175	0.064	-5.869
EC	QUCI1	39.943	-81.338	-0.011	0.000	0.436	0.233	0.357	0.330	0.074	-3.242
EC	QURE1	42.299	-72.335	-0.012	0.000	0.327	0.096	0.239	0.230	0.061	-5.282
EC	QUVA1	33.294	-111.286	-0.005	0.000	0.169	0.074	0.142	0.129	0.035	-3.888
EC	RAFA1	34.734	-120.007	-0.007	0.000	0.149	0.020	0.107	0.084	0.043	-8.059
EC	REDW1	41.561	-124.084	-0.003	0.000	0.065	0.017	0.045	0.041	0.018	-6.159
EC	ROMA1	32.941	-79.657	-0.011	0.000	0.332	0.118	0.256	0.225	0.091	-5.012
EC	ROMO1	40.278	-105.546	-0.003	0.003	0.105	0.048	0.080	0.076	0.024	-3.919
EC	SACR1	33.46	-104.404	-0.003	0.039	0.159	0.110	0.134	0.133	0.025	-1.960
EC	SAGA1	34.297	-118.028	-0.009	0.000	0.220	0.046	0.147	0.124	0.062	-7.426
EC	SAGO1	34.194	-116.913	-0.012	0.000	0.267	0.035	0.188	0.151	0.074	-8.103
EC	SAGU1	32.175	-110.737	-0.006	0.000	0.190	0.079	0.147	0.132	0.043	-4.433
EC	SAMA1	30.093	-84.161	-0.011	0.000	0.327	0.117	0.224	0.216	0.074	-5.102
EC	SAPE1	36.014	-106.845	-0.002	0.003	0.076	0.035	0.057	0.054	0.016	-3.947
EC	SAWE1	32.249	-111.218	-0.007	0.000	0.218	0.084	0.162	0.144	0.043	-4.890
EC	SAWT1	44.171	-114.927	-0.005	0.000	0.139	0.041	0.093	0.087	0.032	-5.955
EC	SENE1	46.289	-85.95	-0.004	0.002	0.148	0.080	0.117	0.114	0.029	-3.146
EC	SEQU1	36.489	-118.829	-0.012	0.000	0.362	0.126	0.270	0.244	0.091	-5.099
EC	SHEN1	38.523	-78.435	-0.010	0.000	0.286	0.104	0.225	0.195	0.066	-4.911
EC	SHMI1	37.304	-107.484	-0.004	0.007	0.108	0.037	0.070	0.063	0.021	-5.837
EC	SHRO1	35.394	-82.774	-0.007	0.004	0.191	0.064	0.154	0.131	0.052	-5.083
EC	SIAN1	34.091	-110.942	-0.006	0.000	0.175	0.065	0.134	0.132	0.030	-4.369
EC	SIME1	55.326	-160.506	-0.001	0.002	0.041	0.021	0.032	0.030	0.008	-3.482
EC	SIPS1	34.343	-87.339	-0.015	0.000	0.460	0.176	0.345	0.318	0.106	-4.694
EC	SNPA1	47.422	-121.426	-0.007	0.000	0.195	0.060	0.137	0.128	0.046	-5.581
EC	STAR1	45.225	-118.513	-0.006	0.000	0.138	0.032	0.099	0.085	0.050	-6.573
EC	SULA1	45.86	-114	-0.003	0.000	0.081	0.031	0.057	0.054	0.017	-4.841
EC	SWAN1	35.451	-76.207	-0.006	0.000	0.226	0.105	0.168	0.162	0.047	-3.941
EC	SYCA1	35.141	-111.969	-0.009	0.005	0.251	0.079	0.192	0.179	0.046	-5.060
EC	TALL1	38.434	-96.56	-0.009	0.000	0.299	0.124	0.214	0.197	0.056	-4.663
EC	THBA1	44.663	-105.287	-0.004	0.006	0.168	0.082	0.118	0.114	0.031	-3.944
EC	THRO1	46.895	-103.378	-0.004	0.000	0.166	0.098	0.131	0.132	0.031	-2.698
EC	THSI1	44.291	-122.043	-0.003	0.003	0.100	0.048	0.077	0.074	0.024	-3.688
EC	TONT1	33.655	-111.107	-0.005	0.000	0.170	0.074	0.127	0.122	0.036	-4.169

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EC	TRCR1	62.315	-150.316	-0.002	0.002	0.057	0.021	0.037	0.037	0.011	-5.084
EC	TRIN1	40.786	-122.805	-0.003	0.005	0.122	0.066	0.086	0.097	0.021	-3.031
EC	ULBE1	47.582	-108.72	-0.002	0.002	0.095	0.049	0.073	0.072	0.020	-3.426
EC	UPBU1	35.826	-93.203	-0.008	0.000	0.285	0.141	0.225	0.213	0.060	-3.575
EC	VIIS1	18.336	-64.796	-0.002	0.004	0.055	0.014	0.038	0.036	0.015	-5.981
EC	VILA1	40.969	-95.045	-0.010	0.000	0.347	0.157	0.244	0.237	0.058	-4.211
EC	VOYA2	48.413	-92.829	-0.003	0.000	0.132	0.070	0.105	0.101	0.026	-3.194
EC	WEMI1	37.659	-107.8	-0.006	0.000	0.131	0.026	0.091	0.078	0.034	-7.041
EC	WHIT1	33.469	-105.535	-0.002	0.017	0.095	0.052	0.076	0.071	0.020	-3.122
EC	WHPA1	46.624	-121.388	-0.001	0.008	0.052	0.026	0.041	0.039	0.014	-3.539
EC	WHPE1	36.585	-105.452	-0.003	0.003	0.083	0.032	0.057	0.056	0.017	-4.800
EC	WHRI1	39.154	-106.821	-0.003	0.000	0.078	0.027	0.058	0.053	0.019	-5.042
EC	WICA1	43.558	-103.484	-0.003	0.001	0.116	0.061	0.094	0.088	0.021	-3.281
EC	WIMO1	34.732	-98.713	-0.005	0.004	0.244	0.146	0.193	0.193	0.042	-2.671
EC	YELL2	44.565	-110.4	-0.002	0.005	0.074	0.040	0.062	0.057	0.017	-3.093
EC	YOSE1	37.713	-119.706	-0.004	0.003	0.160	0.079	0.128	0.120	0.037	-3.550
EC	ZICA1	37.198	-113.151	-0.004	0.000	0.123	0.045	0.086	0.078	0.025	-5.314
Fine Dust	ACAD1	44.377	-68.261	-0.007	0.000	0.209	0.083	0.150	0.146	0.047	-4.532
Fine Dust	AGTI1	33.464	-116.971	-0.017	0.023	0.834	0.520	0.662	0.669	0.160	-2.469
Fine Dust	BADL1	43.743	-101.941	-0.010	0.038	0.601	0.410	0.504	0.506	0.109	-1.995
Fine Dust	BALD1	34.058	-109.441	-0.008	0.115	0.500	0.345	0.475	0.418	0.135	-1.953
Fine Dust	BAND1	35.78	-106.266	-0.004	0.475	0.529	0.455	0.487	0.492	0.098	-0.792
Fine Dust	BIBE1	29.303	-103.178	-0.021	0.038	1.007	0.613	0.798	0.810	0.228	-2.561
Fine Dust	BLIS1	38.976	-120.103	-0.004	0.278	0.384	0.310	0.362	0.349	0.078	-1.118
Fine Dust	BOAP1	33.869	-106.852	0.001	0.697	0.761	0.789	0.820	0.775	0.192	0.192
Fine Dust	BOND1	40.052	-88.373	-0.018	0.000	0.647	0.315	0.427	0.472	0.127	-3.705
Fine Dust	BOWA1	47.947	-91.495	-0.009	0.000	0.279	0.109	0.192	0.194	0.059	-4.617
Fine Dust	BRCA1	37.618	-112.174	-0.004	0.270	0.466	0.395	0.435	0.430	0.075	-0.873
Fine Dust	BRID1	42.975	-109.758	-0.006	0.080	0.378	0.258	0.320	0.318	0.079	-1.992
Fine Dust	BRIG1	39.465	-74.449	-0.014	0.000	0.506	0.244	0.339	0.375	0.111	-3.678
Fine Dust	BRMA1	44.107	-70.729	-0.009	0.004	0.253	0.090	0.183	0.185	0.057	-4.643
Fine Dust	CABA1	43.833	-70.064	-0.009	0.000	0.286	0.107	0.183	0.192	0.066	-4.929
Fine Dust	CABI1	47.955	-115.671	-0.006	0.221	0.354	0.243	0.292	0.295	0.086	-1.977
Fine Dust	CACO1	41.976	-70.024	-0.007	0.000	0.265	0.130	0.189	0.194	0.060	-3.671
Fine Dust	CACR1	34.454	-94.143	-0.016	0.000	0.696	0.385	0.487	0.532	0.117	-3.071
Fine Dust	CANY1	38.459	-109.821	-0.001	0.948	0.502	0.484	0.552	0.493	0.143	-0.191

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Fine Dust	CAPI1	38.302	-111.293	-0.002	0.791	0.559	0.527	0.558	0.541	0.143	-0.319
Fine Dust	CEBL1	38.77	-99.763	-0.003	0.564	0.713	0.658	0.730	0.681	0.195	-0.427
Fine Dust	CHAS1	28.748	-82.555	-0.015	0.000	0.594	0.310	0.410	0.437	0.109	-3.415
Fine Dust	CHIR1	32.009	-109.389	-0.005	0.436	0.736	0.648	0.723	0.692	0.189	-0.676
Fine Dust	COHU1	34.785	-84.627	-0.020	0.000	0.558	0.188	0.355	0.354	0.127	-5.520
Fine Dust	CORI1	45.664	-121.001	-0.004	0.649	0.664	0.587	0.672	0.623	0.273	-0.648
Fine Dust	CRLA1	42.896	-122.136	-0.006	0.031	0.327	0.211	0.252	0.263	0.059	-2.333
Fine Dust	CRMO1	43.46	-113.555	-0.004	0.119	0.440	0.365	0.389	0.402	0.062	-0.989
Fine Dust	DENA1	63.723	-148.967	-0.002	0.052	0.110	0.071	0.093	0.091	0.032	-2.286
Fine Dust	DOME1	35.728	-118.138	0.010	0.221	0.799	0.993	0.880	0.901	0.181	1.134
Fine Dust	DOSO1	39.105	-79.426	-0.011	0.011	0.418	0.210	0.310	0.314	0.112	-3.490
Fine Dust	EGBE1	44.231	-79.783	-0.012	0.000	0.351	0.132	0.220	0.207	0.054	-5.575
Fine Dust	EVER1	25.391	-80.681	-0.013	0.000	0.454	0.215	0.338	0.328	0.087	-3.835
Fine Dust	FLAT1	47.773	-114.269	-0.004	0.048	0.266	0.189	0.221	0.221	0.059	-1.828
Fine Dust	FOPE1	48.308	-105.102	-0.011	0.007	0.502	0.298	0.417	0.384	0.100	-2.804
Fine Dust	FRRE1	39.706	-79.012	-0.024	0.000	0.558	0.108	0.329	0.285	0.137	-8.304
Fine Dust	GAMO1	46.826	-111.711	-0.004	0.140	0.241	0.174	0.217	0.208	0.046	-1.719
Fine Dust	GICL1	33.22	-108.235	-0.005	0.330	0.548	0.456	0.498	0.502	0.103	-0.964
Fine Dust	GLAC1	48.511	-113.997	-0.009	0.004	0.417	0.249	0.322	0.333	0.080	-2.654
Fine Dust	GRBA1	39.005	-114.216	0.000	0.948	0.493	0.488	0.496	0.490	0.094	-0.052
Fine Dust	GRCA2	36.066	-112.154	0.003	0.173	0.389	0.452	0.458	0.421	0.101	0.784
Fine Dust	GRGU1	44.308	-71.218	-0.007	0.000	0.212	0.075	0.141	0.140	0.047	-5.156
Fine Dust	GRR11	43.937	-91.405	-0.015	0.000	0.479	0.192	0.319	0.313	0.094	-4.833
Fine Dust	GRSA1	37.725	-105.519	-0.007	0.436	0.700	0.563	0.652	0.632	0.169	-1.140
Fine Dust	GRSM1	35.633	-83.942	-0.014	0.002	0.503	0.229	0.345	0.366	0.121	-3.949
Fine Dust	GUMO1	31.833	-104.809	0.039	0.044	0.779	1.513	1.265	1.146	0.532	3.373
Fine Dust	HAVO1	19.431	-155.258	-0.002	0.019	0.089	0.048	0.075	0.067	0.030	-3.246
Fine Dust	HECA1	44.97	-116.844	-0.009	0.000	0.401	0.225	0.318	0.308	0.097	-3.008
Fine Dust	HEGL1	36.614	-92.922	-0.020	0.000	0.683	0.295	0.451	0.479	0.134	-4.265
Fine Dust	HOOV1	38.088	-119.177	-0.002	0.677	0.523	0.486	0.482	0.502	0.085	-0.381
Fine Dust	IKBA1	34.34	-111.683	-0.007	0.399	0.880	0.746	0.853	0.813	0.258	-0.867
Fine Dust	ISLE1	47.46	-88.149	-0.007	0.000	0.235	0.109	0.164	0.172	0.048	-3.872
Fine Dust	JARB1	41.893	-115.426	0.002	0.604	0.516	0.555	0.533	0.535	0.120	0.382
Fine Dust	JARI1	37.627	-79.512	-0.016	0.000	0.529	0.225	0.368	0.369	0.118	-4.341
Fine Dust	JOSH1	34.07	-116.389	-0.001	0.697	0.787	0.762	0.787	0.775	0.142	-0.174
Fine Dust	KAIS1	37.221	-119.155	-0.007	0.240	0.630	0.494	0.531	0.555	0.125	-1.288

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Fine Dust	KALM1	42.552	-124.059	-0.003	0.023	0.140	0.088	0.111	0.114	0.028	-2.396
Fine Dust	LABEL	41.712	-121.507	-0.004	0.105	0.351	0.272	0.309	0.312	0.063	-1.337
Fine Dust	LASU2	40.693	-92.006	-0.011	0.015	0.585	0.369	0.439	0.448	0.084	-2.538
Fine Dust	LAVO1	40.54	-121.577	-0.010	0.006	0.483	0.298	0.373	0.390	0.105	-2.489
Fine Dust	LIGO1	35.972	-81.933	-0.014	0.000	0.452	0.191	0.302	0.322	0.110	-4.268
Fine Dust	LOST1	48.642	-102.402	-0.010	0.008	0.503	0.323	0.437	0.413	0.110	-2.305
Fine Dust	MACA1	37.132	-86.148	-0.017	0.002	0.584	0.270	0.401	0.427	0.136	-3.869
Fine Dust	MAVI1	41.331	-70.785	-0.007	0.002	0.282	0.141	0.206	0.200	0.046	-3.716
Fine Dust	MEAD1	36.019	-114.068	-0.015	0.187	1.098	0.822	0.979	0.938	0.236	-1.551
Fine Dust	MELA1	48.487	-104.476	0.006	0.119	0.387	0.502	0.469	0.445	0.105	1.364
Fine Dust	MEVE1	37.198	-108.491	-0.012	0.008	0.707	0.483	0.587	0.595	0.167	-1.981
Fine Dust	MING1	36.972	-90.143	-0.018	0.011	0.783	0.447	0.653	0.606	0.249	-2.917
Fine Dust	MOHO1	45.289	-121.784	-0.003	0.052	0.167	0.106	0.148	0.137	0.068	-2.323
Fine Dust	MOMO1	41.821	-73.297	-0.015	0.000	0.351	0.074	0.221	0.198	0.083	-7.363
Fine Dust	MONT1	47.122	-113.154	-0.009	0.019	0.312	0.140	0.233	0.222	0.099	-4.073
Fine Dust	MOOS1	45.126	-67.266	-0.007	0.000	0.227	0.087	0.155	0.157	0.052	-4.685
Fine Dust	MORA1	46.758	-122.124	-0.004	0.000	0.152	0.072	0.110	0.112	0.035	-3.734
Fine Dust	MOZI1	40.538	-106.677	-0.003	0.421	0.323	0.270	0.308	0.295	0.074	-0.938
Fine Dust	NEBR1	41.889	-100.339	-0.006	0.150	0.530	0.420	0.496	0.463	0.182	-1.257
Fine Dust	NOAB1	44.745	-109.382	-0.008	0.013	0.347	0.193	0.283	0.266	0.077	-3.055
Fine Dust	NOCA1	48.732	-121.065	-0.003	0.004	0.122	0.057	0.092	0.089	0.030	-3.797
Fine Dust	NOCH1	45.65	-106.557	-0.008	0.032	0.505	0.350	0.405	0.415	0.074	-1.963
Fine Dust	OKEF1	30.74	-82.128	-0.012	0.006	0.518	0.284	0.394	0.401	0.113	-3.069
Fine Dust	OLYM1	48.007	-122.973	-0.004	0.021	0.120	0.051	0.093	0.082	0.032	-4.411
Fine Dust	ORPI1	31.951	-112.802	-0.021	0.084	1.394	0.994	1.246	1.163	0.224	-1.812
Fine Dust	PASA1	48.388	-119.927	-0.003	0.028	0.189	0.122	0.173	0.154	0.048	-2.270
Fine Dust	PEFO1	35.078	-109.769	-0.004	0.559	0.808	0.723	0.789	0.765	0.170	-0.586
Fine Dust	PENO1	44.948	-68.648	-0.012	0.010	0.361	0.127	0.227	0.207	0.065	-5.928
Fine Dust	PINN1	36.483	-121.157	-0.001	0.650	0.354	0.339	0.340	0.346	0.046	-0.238
Fine Dust	PMRF1	44.528	-72.869	-0.007	0.000	0.251	0.120	0.173	0.182	0.051	-3.778
Fine Dust	PORE1	38.122	-122.909	0.000	0.948	0.164	0.165	0.167	0.164	0.025	0.023
Fine Dust	PRIS1	46.696	-68.033	-0.015	0.000	0.461	0.171	0.320	0.308	0.103	-4.937
Fine Dust	QUCI1	39.943	-81.338	-0.017	0.000	0.589	0.269	0.411	0.420	0.123	-4.010
Fine Dust	QURE1	42.299	-72.335	-0.011	0.015	0.347	0.135	0.236	0.258	0.068	-4.336
Fine Dust	QUVA1	33.294	-111.286	-0.030	0.054	1.552	0.988	1.336	1.314	0.254	-2.258
Fine Dust	RAFA1	34.734	-120.007	0.001	0.846	0.576	0.594	0.614	0.585	0.137	0.168

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Fine Dust	REDW1	41.561	-124.084	-0.001	0.060	0.112	0.085	0.095	0.099	0.017	-1.440
Fine Dust	ROMA1	32.941	-79.657	-0.008	0.023	0.417	0.263	0.356	0.340	0.094	-2.385
Fine Dust	ROMO1	40.278	-105.546	-0.006	0.027	0.479	0.368	0.434	0.424	0.083	-1.373
Fine Dust	SACR1	33.46	-104.404	-0.003	0.972	1.150	1.100	1.146	1.124	0.324	-0.235
Fine Dust	SAGA1	34.297	-118.028	-0.010	0.048	0.608	0.418	0.535	0.503	0.113	-1.993
Fine Dust	SAGO1	34.194	-116.913	-0.012	0.038	0.684	0.460	0.580	0.572	0.119	-2.061
Fine Dust	SAGU1	32.175	-110.737	-0.034	0.006	1.718	1.076	1.506	1.380	0.494	-2.448
Fine Dust	SAMA1	30.093	-84.161	-0.014	0.000	0.511	0.237	0.371	0.367	0.114	-3.931
Fine Dust	SAPE1	36.014	-106.845	-0.005	0.345	0.497	0.411	0.493	0.452	0.138	-1.005
Fine Dust	SAWE1	32.249	-111.218	-0.062	0.014	2.770	1.588	2.267	2.117	0.547	-2.938
Fine Dust	SAWT1	44.171	-114.927	-0.007	0.019	0.341	0.211	0.283	0.276	0.066	-2.494
Fine Dust	SENE1	46.289	-85.95	-0.007	0.000	0.255	0.120	0.166	0.188	0.052	-3.785
Fine Dust	SEQU1	36.489	-118.829	0.004	0.559	0.704	0.785	0.774	0.745	0.184	0.569
Fine Dust	SHEN1	38.523	-78.435	-0.011	0.002	0.389	0.187	0.273	0.288	0.091	-3.687
Fine Dust	SHMI1	37.304	-107.484	0.014	0.400	0.640	0.912	0.808	0.812	0.202	1.763
Fine Dust	SHRO1	35.394	-82.774	-0.016	0.000	0.466	0.166	0.308	0.316	0.130	-4.995
Fine Dust	SIAN1	34.091	-110.942	-0.024	0.033	0.920	0.456	0.763	0.749	0.188	-3.256
Fine Dust	SIME1	55.326	-160.506	0.000	0.240	0.074	0.066	0.072	0.070	0.009	-0.604
Fine Dust	SIPS1	34.343	-87.339	-0.019	0.000	0.641	0.288	0.448	0.465	0.137	-4.000
Fine Dust	SNPA1	47.422	-121.426	-0.004	0.014	0.151	0.084	0.115	0.118	0.029	-2.985
Fine Dust	STAR1	45.225	-118.513	-0.003	0.052	0.302	0.237	0.272	0.270	0.058	-1.267
Fine Dust	SULA1	45.86	-114	-0.007	0.005	0.255	0.121	0.207	0.192	0.075	-3.681
Fine Dust	SWAN1	35.451	-76.207	-0.009	0.011	0.371	0.193	0.278	0.273	0.082	-3.433
Fine Dust	SYCA1	35.141	-111.969	0.000	0.961	1.599	1.596	1.840	1.598	0.611	-0.011
Fine Dust	TALL1	38.434	-96.56	-0.012	0.000	0.712	0.483	0.591	0.579	0.120	-2.080
Fine Dust	THBA1	44.663	-105.287	-0.024	0.007	0.958	0.506	0.720	0.685	0.212	-3.475
Fine Dust	THRO1	46.895	-103.378	-0.016	0.000	0.628	0.325	0.482	0.477	0.113	-3.341
Fine Dust	THSI1	44.291	-122.043	-0.001	0.697	0.149	0.137	0.142	0.143	0.032	-0.413
Fine Dust	TONT1	33.655	-111.107	-0.007	0.516	1.046	0.915	0.993	0.980	0.196	-0.703
Fine Dust	TRCR1	62.315	-150.316	-0.002	0.031	0.097	0.057	0.080	0.075	0.025	-2.799
Fine Dust	TRIN1	40.786	-122.805	-0.007	0.072	0.307	0.175	0.258	0.248	0.073	-2.794
Fine Dust	ULBE1	47.582	-108.72	-0.006	0.027	0.365	0.247	0.309	0.306	0.092	-2.035
Fine Dust	UPBU1	35.826	-93.203	-0.013	0.014	0.631	0.379	0.463	0.505	0.119	-2.632
Fine Dust	VIIS1	18.336	-64.796	0.012	0.621	0.490	0.709	0.693	0.594	0.387	1.939
Fine Dust	VILA1	40.969	-95.045	-0.016	0.001	0.757	0.452	0.556	0.580	0.117	-2.767
Fine Dust	VOYA2	48.413	-92.829	-0.006	0.000	0.249	0.131	0.185	0.190	0.051	-3.256

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Fine Dust	WEMI1	37.659	-107.8	0.001	0.897	0.355	0.369	0.373	0.362	0.061	0.208
Fine Dust	WHIT1	33.469	-105.535	-0.004	0.622	0.681	0.599	0.645	0.636	0.143	-0.677
Fine Dust	WHPA1	46.624	-121.388	-0.004	0.000	0.123	0.052	0.093	0.087	0.033	-4.285
Fine Dust	WHPE1	36.585	-105.452	0.000	0.934	0.436	0.429	0.422	0.432	0.095	-0.086
Fine Dust	WHRI1	39.154	-106.821	0.003	0.270	0.326	0.380	0.378	0.353	0.082	0.803
Fine Dust	WICA1	43.558	-103.484	-0.004	0.364	0.496	0.423	0.441	0.459	0.097	-0.841
Fine Dust	WIMO1	34.732	-98.713	-0.007	0.196	0.654	0.514	0.605	0.580	0.121	-1.265
Fine Dust	YELL2	44.565	-110.4	-0.004	0.019	0.252	0.180	0.225	0.216	0.049	-1.750
Fine Dust	YOSE1	37.713	-119.706	0.002	0.604	0.468	0.514	0.482	0.491	0.098	0.494
Fine Dust	ZICA1	37.198	-113.151	0.009	0.410	0.591	0.766	0.766	0.692	0.217	1.329
FM	ACAD1	44.377	-68.261	-0.078	0.000	3.907	2.420	3.052	3.163	0.494	-2.475
FM	AGTI1	33.464	-116.971	-0.200	0.000	7.170	3.369	5.474	5.170	1.291	-3.870
FM	BADL1	43.743	-101.941	-0.031	0.004	3.146	2.563	2.876	2.855	0.296	-1.075
FM	BALD1	34.058	-109.441	-0.061	0.000	3.121	1.954	2.494	2.507	0.456	-2.451
FM	BAND1	35.78	-106.266	-0.032	0.000	2.870	2.269	2.650	2.570	0.340	-1.232
FM	BIBE1	29.303	-103.178	-0.085	0.003	5.388	3.778	4.831	4.583	0.804	-1.849
FM	BLIS1	38.976	-120.103	-0.026	0.033	2.513	2.022	2.337	2.280	0.288	-1.133
FM	BOAP1	33.869	-106.852	-0.042	0.069	3.581	2.785	3.198	3.183	0.520	-1.316
FM	BOND1	40.052	-88.373	-0.271	0.000	10.859	5.714	8.097	8.151	1.756	-3.322
FM	BOWA1	47.947	-91.495	-0.066	0.000	3.373	2.115	2.851	2.744	0.531	-2.412
FM	BRCA1	37.618	-112.174	-0.032	0.000	2.443	1.833	2.151	2.138	0.268	-1.502
FM	BRID1	42.975	-109.758	-0.034	0.000	2.030	1.391	1.731	1.711	0.234	-1.963
FM	BRIG1	39.465	-74.449	-0.262	0.000	8.950	3.970	6.701	6.460	1.614	-4.058
FM	BRMA1	44.107	-70.729	-0.069	0.005	4.116	2.808	3.647	3.565	0.439	-1.930
FM	CABA1	43.833	-70.064	-0.111	0.000	5.295	3.186	4.208	4.185	0.727	-2.652
FM	CABI1	47.955	-115.671	-0.041	0.007	2.569	1.785	2.179	2.157	0.363	-1.915
FM	CACO1	41.976	-70.024	-0.100	0.000	5.448	3.547	4.478	4.448	0.701	-2.250
FM	CACR1	34.454	-94.143	-0.225	0.000	9.170	4.887	6.787	6.915	1.451	-3.260
FM	CANY1	38.459	-109.821	-0.043	0.000	2.845	2.021	2.389	2.433	0.295	-1.781
FM	CAPI1	38.302	-111.293	-0.037	0.009	2.627	1.921	2.313	2.237	0.331	-1.661
FM	CEBL1	38.77	-99.763	-0.078	0.013	5.665	4.189	4.743	4.810	0.598	-1.615
FM	CHAS1	28.748	-82.555	-0.196	0.000	8.634	4.909	6.728	6.575	1.230	-2.982
FM	CHIR1	32.009	-109.389	-0.030	0.052	3.299	2.732	3.002	3.016	0.375	-0.990
FM	COHU1	34.785	-84.627	-0.310	0.000	9.368	3.484	6.652	6.116	1.836	-5.064
FM	CORI1	45.664	-121.001	-0.050	0.039	4.713	3.767	4.154	4.216	0.480	-1.181
FM	CRLA1	42.896	-122.136	-0.030	0.000	1.745	1.174	1.456	1.430	0.210	-2.100

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FM	CRMO1	43.46	-113.555	-0.040	0.000	2.453	1.691	2.131	2.072	0.328	-1.935
FM	DENA1	63.723	-148.967	0.001	0.948	0.889	0.902	0.908	0.896	0.150	0.075
FM	DOME1	35.728	-118.138	-0.056	0.006	5.251	4.183	4.677	4.689	0.515	-1.199
FM	DOSO1	39.105	-79.426	-0.274	0.000	8.704	3.492	6.021	6.098	1.791	-4.499
FM	EGBE1	44.231	-79.783	-0.109	0.025	6.011	3.948	4.760	4.654	0.719	-2.334
FM	EVER1	25.391	-80.681	-0.101	0.000	6.263	4.335	5.324	5.248	0.698	-1.933
FM	FLAT1	47.773	-114.269	-0.026	0.084	2.296	1.801	2.015	2.009	0.247	-1.298
FM	FOPE1	48.308	-105.102	-0.045	0.039	3.525	2.678	3.043	3.035	0.387	-1.469
FM	FRRE1	39.706	-79.012	-0.313	0.000	9.463	3.522	6.238	5.867	1.704	-5.330
FM	GAMO1	46.826	-111.711	-0.016	0.103	1.577	1.267	1.436	1.422	0.203	-1.148
FM	GICL1	33.22	-108.235	-0.045	0.001	2.909	2.045	2.582	2.477	0.412	-1.837
FM	GLAC1	48.511	-113.997	-0.071	0.000	4.418	3.063	3.609	3.741	0.526	-1.906
FM	GRBA1	39.005	-114.216	-0.022	0.016	2.191	1.770	2.013	1.981	0.274	-1.117
FM	GRCA2	36.066	-112.154	-0.023	0.069	2.599	2.155	2.362	2.377	0.301	-0.985
FM	GRGU1	44.308	-71.218	-0.080	0.000	3.900	2.378	2.951	3.099	0.528	-2.586
FM	GRR11	43.937	-91.405	-0.177	0.000	7.196	3.833	5.282	5.249	1.033	-3.373
FM	GRSA1	37.725	-105.519	-0.034	0.004	2.929	2.283	2.563	2.606	0.327	-1.305
FM	GRSM1	35.633	-83.942	-0.357	0.000	10.450	3.676	7.039	7.063	2.188	-5.048
FM	GUMO1	31.833	-104.809	-0.009	0.650	4.276	4.105	4.302	4.191	0.626	-0.215
FM	HAVO1	19.431	-155.258	0.014	0.221	1.742	2.006	1.888	1.881	0.330	0.740
FM	HECA1	44.97	-116.844	-0.055	0.000	3.058	2.020	2.599	2.512	0.408	-2.174
FM	HEGL1	36.614	-92.922	-0.234	0.000	9.078	4.634	6.699	6.739	1.344	-3.471
FM	HOOV1	38.088	-119.177	-0.024	0.037	2.206	1.751	1.966	1.954	0.270	-1.226
FM	IKBA1	34.34	-111.683	-0.052	0.000	3.703	2.715	3.252	3.209	0.550	-1.620
FM	ISLE1	47.46	-88.149	-0.055	0.000	3.262	2.209	2.763	2.735	0.444	-2.026
FM	JARB1	41.893	-115.426	-0.015	0.153	2.152	1.869	1.959	2.010	0.253	-0.740
FM	JARI1	37.627	-79.512	-0.292	0.000	10.683	5.135	7.605	7.763	1.729	-3.762
FM	JOSH1	34.07	-116.389	-0.101	0.000	4.449	2.533	3.783	3.491	0.683	-2.889
FM	KAIS1	37.221	-119.155	-0.033	0.272	3.097	2.468	2.758	2.750	0.499	-1.203
FM	KALM1	42.552	-124.059	-0.017	0.153	2.804	2.474	2.584	2.639	0.237	-0.659
FM	LABE1	41.712	-121.507	-0.053	0.000	2.512	1.502	2.107	2.007	0.397	-2.648
FM	LASU2	40.693	-92.006	-0.221	0.000	8.833	4.628	6.617	6.177	1.423	-3.583
FM	LAVO1	40.54	-121.577	-0.036	0.006	2.403	1.715	2.082	2.059	0.337	-1.759
FM	LIGO1	35.972	-81.933	-0.281	0.000	9.284	3.937	6.644	6.611	1.892	-4.257
FM	LOST1	48.642	-102.402	-0.044	0.014	4.392	3.563	3.904	3.977	0.420	-1.097
FM	MACA1	37.132	-86.148	-0.298	0.000	11.103	5.435	7.924	8.269	1.882	-3.608



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FM	MAVI1	41.331	-70.785	-0.116	0.000	6.199	4.004	4.814	4.928	0.676	-2.345
FM	MEAD1	36.019	-114.068	-0.060	0.007	3.570	2.436	3.011	2.914	0.486	-2.048
FM	MELA1	48.487	-104.476	-0.025	0.060	3.440	2.966	3.259	3.203	0.336	-0.778
FM	MEVE1	37.198	-108.491	-0.065	0.000	3.087	1.844	2.430	2.465	0.516	-2.652
FM	MING1	36.972	-90.143	-0.272	0.000	10.838	5.668	8.230	8.117	1.814	-3.352
FM	MOHO1	45.289	-121.784	-0.013	0.027	1.557	1.301	1.466	1.429	0.237	-0.940
FM	MOMO1	41.821	-73.297	-0.139	0.000	5.377	2.742	4.082	3.921	0.870	-3.537
FM	MONT1	47.122	-113.154	-0.021	0.115	2.330	1.928	2.120	2.118	0.260	-1.000
FM	MOOS1	45.126	-67.266	-0.081	0.000	3.871	2.332	3.096	3.101	0.537	-2.612
FM	MORA1	46.758	-122.124	-0.065	0.000	3.054	1.827	2.478	2.440	0.457	-2.647
FM	MOZI1	40.538	-106.677	-0.024	0.028	1.919	1.465	1.718	1.680	0.266	-1.422
FM	NEBR1	41.889	-100.339	-0.062	0.038	4.298	3.123	3.600	3.587	0.527	-1.724
FM	NOAB1	44.745	-109.382	-0.035	0.001	1.942	1.284	1.527	1.595	0.280	-2.171
FM	NOCA1	48.732	-121.065	-0.036	0.000	1.966	1.273	1.615	1.620	0.286	-2.251
FM	NOCH1	45.65	-106.557	-0.032	0.032	2.684	2.083	2.272	2.336	0.280	-1.353
FM	OKEF1	30.74	-82.128	-0.200	0.000	8.862	5.061	6.887	6.962	1.283	-2.874
FM	OLYM1	48.007	-122.973	-0.065	0.000	2.885	1.649	2.333	2.202	0.382	-2.953
FM	ORPI1	31.951	-112.802	-0.049	0.004	4.385	3.451	3.852	3.844	0.388	-1.279
FM	PASA1	48.388	-119.927	-0.014	0.151	1.548	1.278	1.433	1.406	0.245	-1.010
FM	PEFO1	35.078	-109.769	-0.049	0.014	3.471	2.545	2.967	3.008	0.451	-1.621
FM	PENO1	44.948	-68.648	-0.116	0.005	5.248	3.039	3.718	3.795	0.650	-3.063
FM	PINN1	36.483	-121.157	-0.049	0.019	4.348	3.411	3.894	3.880	0.479	-1.271
FM	PMRF1	44.528	-72.869	-0.107	0.000	4.610	2.586	3.574	3.545	0.639	-3.005
FM	PORE1	38.122	-122.909	-0.014	0.697	4.951	4.687	4.983	4.819	0.630	-0.289
FM	PRIS1	46.696	-68.033	-0.104	0.000	4.656	2.688	3.666	3.620	0.633	-2.862
FM	QUCI1	39.943	-81.338	-0.262	0.000	10.146	5.172	7.534	7.528	1.644	-3.477
FM	QURE1	42.299	-72.335	-0.127	0.001	5.444	3.026	4.468	4.426	0.715	-2.876
FM	QUVA1	33.294	-111.286	-0.088	0.020	5.127	3.464	4.340	4.427	0.543	-1.977
FM	RAFA1	34.734	-120.007	-0.081	0.001	4.635	3.098	4.037	3.866	0.657	-2.092
FM	REDW1	41.561	-124.084	-0.033	0.069	3.124	2.498	2.808	2.811	0.433	-1.173
FM	ROMA1	32.941	-79.657	-0.247	0.000	9.523	4.835	7.266	7.179	1.558	-3.437
FM	ROMO1	40.278	-105.546	-0.054	0.000	2.712	1.679	2.202	2.196	0.421	-2.476
FM	SACR1	33.46	-104.404	-0.072	0.028	5.618	4.245	5.023	4.895	0.952	-1.476
FM	SAGA1	34.297	-118.028	-0.091	0.003	4.141	2.407	3.418	3.183	0.684	-2.866
FM	SAGO1	34.194	-116.913	-0.145	0.000	5.268	2.507	4.208	3.887	1.020	-3.738
FM	SAGU1	32.175	-110.737	-0.103	0.000	5.043	3.083	4.258	4.011	0.826	-2.572

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FM	SAMA1	30.093	-84.161	-0.220	0.000	9.053	4.874	6.799	6.854	1.326	-3.209
FM	SAPE1	36.014	-106.845	-0.049	0.000	2.633	1.711	2.155	2.148	0.398	-2.262
FM	SAWE1	32.249	-111.218	-0.114	0.004	6.216	4.054	5.108	5.021	0.783	-2.267
FM	SAWT1	44.171	-114.927	-0.055	0.000	2.431	1.390	1.923	1.910	0.385	-2.867
FM	SENE1	46.289	-85.95	-0.065	0.001	3.610	2.381	2.968	2.996	0.484	-2.160
FM	SEQU1	36.489	-118.829	-0.131	0.000	8.330	5.835	7.272	7.083	1.011	-1.854
FM	SHEN1	38.523	-78.435	-0.245	0.000	7.921	3.273	5.960	5.597	1.561	-4.370
FM	SHMI1	37.304	-107.484	-0.034	0.102	3.082	2.431	2.623	2.671	0.319	-1.283
FM	SHRO1	35.394	-82.774	-0.205	0.000	6.720	2.826	4.833	4.773	1.459	-4.294
FM	SIAN1	34.091	-110.942	-0.074	0.002	3.783	2.373	3.260	3.263	0.396	-2.274
FM	SIME1	55.326	-160.506	0.000	0.970	2.302	2.302	2.311	2.302	0.223	0.000
FM	SIPS1	34.343	-87.339	-0.301	0.000	11.073	5.361	8.106	8.217	1.929	-3.659
FM	SNPA1	47.422	-121.426	-0.055	0.000	2.375	1.332	1.896	1.854	0.399	-2.960
FM	STAR1	45.225	-118.513	-0.054	0.000	2.773	1.755	2.421	2.264	0.537	-2.368
FM	SULA1	45.86	-114	-0.031	0.001	1.808	1.225	1.581	1.532	0.338	-2.006
FM	SWAN1	35.451	-76.207	-0.181	0.000	7.554	4.124	5.966	5.658	1.143	-3.191
FM	SYCA1	35.141	-111.969	-0.027	0.255	4.322	3.806	4.336	4.105	0.612	-0.662
FM	TALL1	38.434	-96.56	-0.155	0.000	7.896	4.956	6.041	6.194	0.926	-2.499
FM	THBA1	44.663	-105.287	-0.049	0.007	3.545	2.612	2.984	2.980	0.347	-1.647
FM	THRO1	46.895	-103.378	-0.061	0.000	3.895	2.739	3.338	3.317	0.448	-1.835
FM	THSI1	44.291	-122.043	-0.025	0.080	1.984	1.508	1.755	1.746	0.287	-1.434
FM	TONT1	33.655	-111.107	-0.060	0.000	4.307	3.169	3.829	3.738	0.494	-1.602
FM	TRCR1	62.315	-150.316	-0.011	0.211	1.325	1.116	1.206	1.210	0.166	-0.911
FM	TRIN1	40.786	-122.805	-0.023	0.105	2.329	1.894	2.129	2.134	0.284	-1.073
FM	ULBE1	47.582	-108.72	-0.032	0.002	2.753	2.145	2.459	2.449	0.268	-1.307
FM	UPBU1	35.826	-93.203	-0.204	0.000	8.940	5.058	6.717	6.999	1.302	-2.920
FM	VIIS1	18.336	-64.796	0.052	0.323	4.343	5.334	4.676	4.812	0.776	1.084
FM	VILA1	40.969	-95.045	-0.206	0.000	9.004	5.092	6.555	6.739	1.205	-3.056
FM	VOYA2	48.413	-92.829	-0.048	0.000	3.460	2.540	2.964	3.000	0.441	-1.615
FM	WEMI1	37.659	-107.8	-0.031	0.000	2.318	1.731	1.983	2.025	0.251	-1.524
FM	WHIT1	33.469	-105.535	-0.041	0.088	3.341	2.558	3.023	2.908	0.480	-1.417
FM	WHPA1	46.624	-121.388	-0.029	0.003	1.250	0.690	1.056	0.970	0.276	-3.041
FM	WHPE1	36.585	-105.452	-0.031	0.013	2.349	1.765	2.047	2.042	0.257	-1.504
FM	WHRI1	39.154	-106.821	-0.032	0.000	2.047	1.447	1.707	1.747	0.275	-1.809
FM	WICA1	43.558	-103.484	-0.024	0.025	2.917	2.453	2.662	2.685	0.286	-0.909
FM	WIMO1	34.732	-98.713	-0.136	0.000	7.378	4.796	5.958	6.019	0.894	-2.258

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FM	YELL2	44.565	-110.4	-0.039	0.000	2.101	1.353	1.752	1.727	0.294	-2.279
FM	YOSE1	37.713	-119.706	-0.040	0.014	3.685	2.917	3.378	3.301	0.480	-1.225
FM	ZICA1	37.198	-113.151	-0.033	0.039	3.042	2.418	2.782	2.681	0.392	-1.225
CM	ACAD1	44.377	-68.261	0.030	0.014	1.908	2.474	2.133	2.191	0.331	1.358
CM	AGTI1	33.464	-116.971	-0.123	0.033	9.320	6.987	7.890	8.092	1.490	-1.517
CM	BADL1	43.743	-101.941	-0.076	0.009	3.967	2.518	3.392	3.243	0.635	-2.352
CM	BALD1	34.058	-109.441	-0.038	0.005	2.654	1.938	2.202	2.277	0.333	-1.653
CM	BAND1	35.78	-106.266	0.005	0.846	2.305	2.403	2.448	2.354	0.463	0.221
CM	BIBE1	29.303	-103.178	0.001	0.948	5.082	5.095	5.101	5.088	1.300	0.014
CM	BLIS1	38.976	-120.103	0.028	0.013	1.696	2.234	1.858	1.951	0.253	1.452
CM	BOAP1	33.869	-106.852	-0.040	0.399	4.504	3.738	4.552	4.121	1.046	-0.979
CM	BOND1	40.052	-88.373	0.017	0.382	4.996	5.318	5.286	5.166	0.655	0.328
CM	BOWA1	47.947	-91.495	-0.015	0.299	1.900	1.607	1.790	1.754	0.307	-0.880
CM	BRCA1	37.618	-112.174	0.000	1.000	1.967	1.972	2.047	1.969	0.355	0.014
CM	BRID1	42.975	-109.758	-0.007	0.330	1.260	1.119	1.197	1.189	0.249	-0.625
CM	BRIG1	39.465	-74.449	0.079	0.330	5.719	7.227	6.668	6.473	2.001	1.226
CM	BRMA1	44.107	-70.729	-0.035	0.216	2.134	1.473	1.830	1.856	0.337	-1.875
CM	CABA1	43.833	-70.064	0.017	0.463	2.624	2.940	2.825	2.791	0.437	0.595
CM	CABI1	47.955	-115.671	-0.024	0.172	1.539	1.083	1.265	1.299	0.348	-1.846
CM	CACO1	41.976	-70.024	0.029	0.552	4.186	4.744	4.531	4.480	0.597	0.656
CM	CACR1	34.454	-94.143	-0.063	0.009	5.330	4.126	4.571	4.696	0.631	-1.349
CM	CANY1	38.459	-109.821	-0.019	0.364	2.815	2.462	2.643	2.638	0.383	-0.704
CM	CAPI1	38.302	-111.293	0.044	0.185	2.019	2.850	2.446	2.478	0.553	1.766
CM	CEBL1	38.77	-99.763	0.099	0.217	5.264	7.135	6.833	6.347	1.619	1.552
CM	CHAS1	28.748	-82.555	-0.003	0.850	4.969	4.912	4.872	4.937	0.445	-0.061
CM	CHIR1	32.009	-109.389	0.012	0.604	4.186	4.423	4.375	4.304	0.863	0.290
CM	COHU1	34.785	-84.627	0.067	0.001	2.019	3.287	2.696	2.720	0.575	2.454
CM	CORI1	45.664	-121.001	0.176	0.054	4.687	8.035	6.647	6.449	2.265	2.733
CM	CRLA1	42.896	-122.136	-0.019	0.009	1.058	0.689	0.903	0.854	0.183	-2.276
CM	CRMO1	43.46	-113.555	-0.018	0.074	2.137	1.790	1.907	1.954	0.278	-0.935
CM	DENA1	63.723	-148.967	0.000	0.948	0.871	0.869	0.885	0.870	0.149	-0.011
CM	DOME1	35.728	-118.138	0.170	0.011	6.345	9.578	7.699	8.047	2.013	2.114
CM	DOSO1	39.105	-79.426	0.027	0.019	1.792	2.309	2.082	2.051	0.336	1.328
CM	EGBE1	44.231	-79.783	0.009	0.956	3.206	3.386	3.362	3.325	0.444	0.285
CM	EVER1	25.391	-80.681	0.054	0.278	5.154	6.189	5.857	5.699	0.980	0.956
CM	FLAT1	47.773	-114.269	-0.019	0.099	1.509	1.146	1.340	1.299	0.266	-1.470

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CM	FOPE1	48.308	-105.102	0.016	0.249	3.259	3.570	3.392	3.439	0.488	0.477
CM	FRRE1	39.706	-79.012	0.027	0.471	2.904	3.421	3.270	3.217	0.576	0.845
CM	GAMO1	46.826	-111.711	-0.018	0.031	1.188	0.853	0.983	1.021	0.196	-1.725
CM	GICL1	33.22	-108.235	0.019	0.069	1.978	2.342	2.189	2.160	0.305	0.888
CM	GLAC1	48.511	-113.997	-0.019	0.299	2.240	1.873	2.055	2.057	0.349	-0.938
CM	GRBA1	39.005	-114.216	0.001	0.948	2.074	2.093	2.170	2.083	0.303	0.046
CM	GRCA2	36.066	-112.154	-0.035	0.021	2.233	1.577	2.036	1.939	0.382	-1.780
CM	GRGU1	44.308	-71.218	-0.032	0.014	2.099	1.487	1.783	1.777	0.262	-1.813
CM	GRR11	43.937	-91.405	-0.058	0.084	4.951	3.845	4.341	4.311	0.741	-1.351
CM	GRSA1	37.725	-105.519	-0.063	0.014	3.115	1.925	2.780	2.520	0.853	-2.484
CM	GRSM1	35.633	-83.942	0.020	0.270	2.840	3.218	3.058	3.029	0.451	0.657
CM	GUMO1	31.833	-104.809	-0.005	0.948	6.526	6.425	6.771	6.476	1.833	-0.082
CM	HAVO1	19.431	-155.258	0.012	0.172	1.155	1.389	1.257	1.278	0.216	0.965
CM	HECA1	44.97	-116.844	-0.001	0.972	1.805	1.788	1.851	1.796	0.241	-0.049
CM	HEGL1	36.614	-92.922	0.025	0.345	4.561	5.044	4.754	4.815	0.799	0.528
CM	HOOV1	38.088	-119.177	-0.020	0.272	1.936	1.555	1.756	1.725	0.428	-1.165
CM	IKBA1	34.34	-111.683	-0.040	0.080	4.360	3.601	3.959	3.980	0.533	-1.004
CM	ISLE1	47.46	-88.149	-0.043	0.003	2.441	1.631	2.014	2.036	0.417	-2.094
CM	JARB1	41.893	-115.426	-0.007	0.516	2.155	2.030	2.059	2.093	0.356	-0.315
CM	JARI1	37.627	-79.512	-0.036	0.151	3.724	3.034	3.244	3.361	0.580	-1.081
CM	JOSH1	34.07	-116.389	-0.011	0.697	5.562	5.361	5.683	5.462	0.676	-0.194
CM	KAIS1	37.221	-119.155	0.000	0.970	2.937	2.943	2.836	2.941	0.543	0.011
CM	KALM1	42.552	-124.059	-0.018	0.014	2.144	1.795	1.925	1.970	0.241	-0.933
CM	LABEL1	41.712	-121.507	-0.023	0.038	1.812	1.382	1.625	1.597	0.279	-1.416
CM	LASU2	40.693	-92.006	0.183	0.102	4.728	8.206	6.736	6.925	1.669	2.643
CM	LAVO1	40.54	-121.577	0.032	0.027	1.203	1.816	1.612	1.510	0.416	2.137
CM	LIGO1	35.972	-81.933	-0.001	0.972	2.749	2.738	2.639	2.743	0.387	-0.022
CM	LOST1	48.642	-102.402	0.039	0.173	4.151	4.887	4.695	4.519	0.800	0.857
CM	MACA1	37.132	-86.148	0.018	0.516	3.411	3.744	3.487	3.577	0.785	0.490
CM	MAVI1	41.331	-70.785	0.222	0.000	2.984	7.202	6.342	5.426	2.224	4.092
CM	MEAD1	36.019	-114.068	-0.056	0.161	5.099	4.044	4.524	4.488	0.660	-1.238
CM	MELA1	48.487	-104.476	0.025	0.436	3.968	4.437	4.124	4.202	0.722	0.587
CM	MEVE1	37.198	-108.491	-0.010	0.559	2.158	1.977	2.195	2.067	0.608	-0.461
CM	MING1	36.972	-90.143	0.041	0.649	6.197	6.968	6.499	6.603	1.325	0.615
CM	MOHO1	45.289	-121.784	-0.001	0.897	0.699	0.688	0.688	0.693	0.166	-0.086
CM	MOMO1	41.821	-73.297	-0.003	0.934	2.411	2.349	2.445	2.375	0.427	-0.139

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CM	MONT1	47.122	-113.154	-0.012	0.345	1.049	0.824	0.971	0.931	0.260	-1.271
CM	MOOS1	45.126	-67.266	-0.027	0.009	2.175	1.662	1.911	1.919	0.298	-1.406
CM	MORA1	46.758	-122.124	-0.005	0.746	1.782	1.692	1.688	1.737	0.301	-0.272
CM	MOZI1	40.538	-106.677	-0.028	0.074	1.723	1.190	1.589	1.442	0.416	-1.944
CM	NEBR1	41.889	-100.339	-0.036	0.322	4.058	3.369	3.664	3.641	0.713	-0.996
CM	NOAB1	44.745	-109.382	-0.052	0.002	2.205	1.224	1.754	1.740	0.413	-2.967
CM	NOCA1	48.732	-121.065	0.000	0.948	0.898	0.902	0.885	0.900	0.209	0.026
CM	NOCH1	45.65	-106.557	-0.039	0.161	2.479	1.746	1.999	2.055	0.357	-1.878
CM	OKEF1	30.74	-82.128	0.037	0.299	3.748	4.446	4.236	4.097	0.803	0.896
CM	OLYM1	48.007	-122.973	-0.013	0.570	1.383	1.136	1.272	1.247	0.209	-1.041
CM	ORPI1	31.951	-112.802	0.048	0.323	5.920	6.835	6.720	6.450	0.892	0.747
CM	PASA1	48.388	-119.927	0.015	0.011	0.723	1.005	0.890	0.871	0.213	1.700
CM	PEFO1	35.078	-109.769	0.009	0.516	3.336	3.500	3.435	3.418	0.754	0.253
CM	PENO1	44.948	-68.648	0.054	0.298	2.945	3.970	3.694	3.619	0.775	1.491
CM	PINN1	36.483	-121.157	0.049	0.080	4.650	5.579	5.067	5.115	0.848	0.955
CM	PMRF1	44.528	-72.869	-0.013	0.421	2.202	1.959	1.952	2.074	0.324	-0.616
CM	PORE1	38.122	-122.909	-0.027	0.299	6.884	6.372	6.536	6.628	0.778	-0.407
CM	PRIS1	46.696	-68.033	-0.002	0.916	4.421	4.386	4.410	4.403	0.564	-0.041
CM	QUCI1	39.943	-81.338	0.038	0.196	4.266	4.983	4.520	4.643	0.804	0.812
CM	QURE1	42.299	-72.335	-0.026	0.299	2.437	1.952	2.247	2.233	0.341	-1.145
CM	QUVA1	33.294	-111.286	-0.125	0.067	9.485	7.114	8.583	8.487	1.367	-1.471
CM	RAFA1	34.734	-120.007	0.046	0.399	5.952	6.832	6.564	6.392	1.101	0.725
CM	REDW1	41.561	-124.084	0.024	0.516	3.025	3.480	3.307	3.252	0.604	0.735
CM	ROMA1	32.941	-79.657	0.041	0.299	4.837	5.611	5.161	5.224	0.791	0.780
CM	ROMO1	40.278	-105.546	-0.042	0.008	2.426	1.635	2.162	2.031	0.547	-2.052
CM	SACR1	33.46	-104.404	0.174	0.100	7.537	10.844	9.329	9.277	2.438	1.876
CM	SAGA1	34.297	-118.028	-0.029	0.471	4.570	4.016	4.320	4.263	0.721	-0.684
CM	SAGO1	34.194	-116.913	-0.030	0.364	5.065	4.492	4.780	4.779	0.809	-0.631
CM	SAGU1	32.175	-110.737	0.048	0.132	6.152	7.064	6.465	6.632	0.888	0.724
CM	SAMA1	30.093	-84.161	0.027	0.421	3.767	4.283	3.928	4.039	0.660	0.673
CM	SAPE1	36.014	-106.845	-0.004	0.916	1.645	1.574	1.597	1.607	0.267	-0.232
CM	SAWE1	32.249	-111.218	-0.028	0.622	10.192	9.665	9.786	9.901	1.237	-0.280
CM	SAWT1	44.171	-114.927	-0.014	0.132	1.010	0.752	0.936	0.874	0.256	-1.555
CM	SENE1	46.289	-85.95	-0.007	0.604	1.534	1.402	1.461	1.468	0.260	-0.474
CM	SEQU1	36.489	-118.829	0.041	0.604	6.350	7.133	7.492	6.741	1.720	0.611
CM	SHEN1	38.523	-78.435	0.014	0.697	2.569	2.828	2.700	2.699	0.430	0.504

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CM	SHMI1	37.304	-107.484	0.009	0.805	3.039	3.211	3.250	3.148	0.411	0.288
CM	SHRO1	35.394	-82.774	0.068	0.003	1.059	2.347	1.794	1.737	0.630	3.901
CM	SIAN1	34.091	-110.942	-0.074	0.014	4.073	2.669	3.673	3.556	0.631	-2.078
CM	SIME1	55.326	-160.506	-0.021	0.240	3.509	3.117	3.281	3.292	0.363	-0.627
CM	SIPS1	34.343	-87.339	-0.058	0.001	4.433	3.326	3.982	3.879	0.518	-1.503
CM	SNPA1	47.422	-121.426	-0.005	0.697	0.857	0.763	0.825	0.810	0.204	-0.611
CM	STAR1	45.225	-118.513	-0.007	0.846	1.534	1.407	1.521	1.471	0.338	-0.454
CM	SULA1	45.86	-114	-0.012	0.365	1.137	0.906	1.106	1.016	0.340	-1.197
CM	SWAN1	35.451	-76.207	-0.024	0.510	5.390	4.933	5.040	5.125	0.694	-0.470
CM	SYCA1	35.141	-111.969	-0.041	0.586	4.696	3.925	4.437	4.371	0.738	-0.929
CM	TALL1	38.434	-96.56	0.063	0.323	5.390	6.590	6.245	6.085	1.135	1.039
CM	THBA1	44.663	-105.287	-0.063	0.059	5.011	3.810	4.316	4.284	0.800	-1.477
CM	THRO1	46.895	-103.378	-0.035	0.364	4.571	3.902	4.341	4.236	0.600	-0.831
CM	THSI1	44.291	-122.043	0.006	0.330	1.096	1.208	1.149	1.152	0.251	0.510
CM	TONT1	33.655	-111.107	-0.016	0.604	5.566	5.262	5.276	5.414	0.710	-0.295
CM	TRCR1	62.315	-150.316	0.011	0.120	1.299	1.513	1.428	1.417	0.179	0.793
CM	TRIN1	40.786	-122.805	0.007	0.787	1.502	1.644	1.522	1.566	0.313	0.474
CM	ULBE1	47.582	-108.72	-0.021	0.153	2.376	1.979	2.272	2.178	0.374	-0.960
CM	UPBU1	35.826	-93.203	-0.159	0.016	6.185	3.170	4.967	4.678	1.547	-3.393
CM	VIIS1	18.336	-64.796	0.072	0.249	9.185	10.556	10.658	9.834	1.574	0.734
CM	VILA1	40.969	-95.045	-0.019	0.805	8.540	8.180	8.408	8.332	1.533	-0.227
CM	VOYA2	48.413	-92.829	-0.003	0.475	1.690	1.641	1.743	1.666	0.320	-0.155
CM	WEMI1	37.659	-107.8	-0.020	0.019	2.062	1.683	1.879	1.873	0.208	-1.064
CM	WHIT1	33.469	-105.535	-0.003	0.910	3.343	3.278	3.618	3.307	0.903	-0.104
CM	WHPA1	46.624	-121.388	0.000	0.948	0.639	0.647	0.711	0.643	0.254	0.058
CM	WHPE1	36.585	-105.452	-0.012	0.621	1.522	1.285	1.541	1.398	0.367	-0.891
CM	WHRI1	39.154	-106.821	-0.037	0.003	1.621	0.921	1.318	1.271	0.316	-2.899
CM	WICA1	43.558	-103.484	-0.025	0.132	2.801	2.317	2.616	2.572	0.512	-0.989
CM	WIMO1	34.732	-98.713	0.033	0.382	6.330	6.953	6.819	6.658	1.015	0.492
CM	YELL2	44.565	-110.4	-0.002	0.897	1.121	1.086	1.109	1.103	0.178	-0.166
CM	YOSE1	37.713	-119.706	0.030	0.194	3.156	3.734	3.374	3.445	0.622	0.882
CM	ZICA1	37.198	-113.151	-0.024	0.510	4.621	4.155	4.297	4.351	0.798	-0.563
PM10	ACAD1	44.377	-68.261	-0.043	0.060	5.872	5.061	5.481	5.467	0.595	-0.781
PM10	AGTI1	33.464	-116.971	-0.343	0.000	16.444	9.931	13.768	13.016	2.669	-2.634
PM10	BADL1	43.743	-101.941	-0.084	0.000	7.128	5.532	6.242	6.330	0.694	-1.327
PM10	BALD1	34.058	-109.441	-0.085	0.005	5.578	3.965	4.894	4.729	0.792	-1.795

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PM10	BAND1	35.78	-106.266	-0.038	0.069	5.580	4.857	5.286	5.219	0.763	-0.730
PM10	BIBE1	29.303	-103.178	-0.100	0.060	10.823	8.931	10.370	9.877	1.861	-1.008
PM10	BLIS1	38.976	-120.103	0.001	0.972	4.461	4.473	4.400	4.467	0.585	0.014
PM10	BOAP1	33.869	-106.852	-0.085	0.052	8.229	6.606	8.020	7.417	1.517	-1.152
PM10	BOND1	40.052	-88.373	-0.236	0.000	16.677	12.197	14.111	14.319	1.917	-1.647
PM10	BOWA1	47.947	-91.495	-0.078	0.004	5.325	3.847	4.722	4.586	0.683	-1.697
PM10	BRCA1	37.618	-112.174	-0.034	0.080	4.382	3.731	4.220	4.057	0.478	-0.845
PM10	BRID1	42.975	-109.758	-0.043	0.092	3.415	2.607	3.075	3.011	0.512	-1.412
PM10	BRIG1	39.465	-74.449	-0.206	0.011	15.836	11.918	14.165	13.877	2.293	-1.486
PM10	BRMA1	44.107	-70.729	-0.072	0.020	6.461	5.090	5.706	5.884	0.559	-1.227
PM10	CABA1	43.833	-70.064	-0.092	0.046	8.867	7.110	7.504	7.942	1.002	-1.164
PM10	CABI1	47.955	-115.671	-0.087	0.007	4.677	3.016	3.673	3.802	0.666	-2.299
PM10	CACO1	41.976	-70.024	-0.127	0.004	10.633	8.230	9.557	9.368	1.016	-1.350
PM10	CACR1	34.454	-94.143	-0.270	0.000	14.245	9.119	11.872	11.547	1.853	-2.337
PM10	CANY1	38.459	-109.821	-0.056	0.069	5.864	4.809	5.220	5.336	0.634	-1.041
PM10	CAPI1	38.302	-111.293	0.029	0.384	4.414	4.965	4.818	4.718	0.575	0.615
PM10	CEBL1	38.77	-99.763	0.006	0.934	11.404	11.514	12.124	11.468	2.051	0.050
PM10	CHAS1	28.748	-82.555	-0.192	0.000	13.532	9.877	12.119	11.705	1.578	-1.643
PM10	CHIR1	32.009	-109.389	-0.026	0.650	7.744	7.258	7.515	7.501	1.119	-0.341
PM10	COHU1	34.785	-84.627	-0.236	0.001	12.115	7.636	9.699	9.640	1.682	-2.445
PM10	CORI1	45.664	-121.001	0.180	0.014	9.525	12.940	11.327	11.233	2.178	1.600
PM10	CRLA1	42.896	-122.136	-0.054	0.000	3.044	2.012	2.546	2.528	0.451	-2.147
PM10	CRMO1	43.46	-113.555	-0.062	0.005	4.825	3.650	4.204	4.207	0.557	-1.470
PM10	DENA1	63.723	-148.967	-0.006	0.559	1.938	1.823	1.906	1.881	0.227	-0.324
PM10	DOME1	35.728	-118.138	0.091	0.221	12.143	13.862	13.067	13.048	2.092	0.694
PM10	DOSO1	39.105	-79.426	-0.252	0.000	10.980	6.184	8.326	8.582	1.780	-2.941
PM10	EGBE1	44.231	-79.783	-0.163	0.025	11.133	8.028	8.900	9.090	1.029	-1.798
PM10	EVER1	25.391	-80.681	-0.074	0.100	11.913	10.514	11.450	11.177	1.125	-0.659
PM10	FLAT1	47.773	-114.269	-0.049	0.032	4.081	3.156	3.593	3.546	0.401	-1.373
PM10	FOPE1	48.308	-105.102	-0.012	0.805	6.787	6.560	6.750	6.656	0.670	-0.179
PM10	FRRE1	39.706	-79.012	-0.303	0.000	13.729	7.973	9.970	10.245	1.650	-2.957
PM10	GAMO1	46.826	-111.711	-0.055	0.000	3.047	2.005	2.531	2.499	0.419	-2.193
PM10	GICL1	33.22	-108.235	-0.026	0.038	5.174	4.687	4.996	4.930	0.568	-0.520
PM10	GLAC1	48.511	-113.997	-0.106	0.000	7.055	5.047	6.215	6.051	0.796	-1.747
PM10	GRBA1	39.005	-114.216	-0.028	0.194	4.640	4.113	4.262	4.376	0.567	-0.634
PM10	GRCA2	36.066	-112.154	-0.072	0.017	5.044	3.683	4.484	4.435	0.659	-1.615

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PM10	GRGU1	44.308	-71.218	-0.110	0.000	6.092	4.006	4.830	4.994	0.709	-2.198
PM10	GRII1	43.937	-91.405	-0.222	0.000	13.197	8.982	10.611	10.757	1.477	-2.062
PM10	GRSA1	37.725	-105.519	-0.110	0.006	6.135	4.038	5.525	5.086	1.151	-2.170
PM10	GRSM1	35.633	-83.942	-0.315	0.000	13.585	7.609	10.662	10.597	2.128	-2.968
PM10	GUMO1	31.833	-104.809	-0.037	0.795	11.258	10.555	11.346	10.906	2.354	-0.339
PM10	HAVO1	19.431	-155.258	0.038	0.074	3.226	3.957	3.572	3.611	0.587	1.065
PM10	HECA1	44.97	-116.844	-0.057	0.004	5.332	4.257	4.839	4.766	0.565	-1.187
PM10	HEGL1	36.614	-92.922	-0.214	0.000	13.444	9.385	11.772	11.308	1.626	-1.889
PM10	HOOV1	38.088	-119.177	-0.042	0.120	4.287	3.490	3.941	3.847	0.599	-1.090
PM10	IKBA1	34.34	-111.683	-0.099	0.008	8.269	6.379	7.425	7.324	0.967	-1.358
PM10	ISLE1	47.46	-88.149	-0.115	0.000	6.356	4.169	5.138	5.263	0.849	-2.187
PM10	JARB1	41.893	-115.426	-0.031	0.299	4.532	3.936	4.175	4.234	0.657	-0.741
PM10	JARI1	37.627	-79.512	-0.347	0.000	15.265	8.665	11.206	11.791	2.138	-2.946
PM10	JOSH1	34.07	-116.389	-0.136	0.006	10.842	8.257	9.785	9.550	1.397	-1.425
PM10	KAIS1	37.221	-119.155	-0.003	0.910	5.953	5.888	5.750	5.917	1.066	-0.057
PM10	KALM1	42.552	-124.059	-0.041	0.006	4.922	4.138	4.607	4.530	0.404	-0.911
PM10	LABE1	41.712	-121.507	-0.078	0.000	4.654	3.172	3.909	3.913	0.650	-1.994
PM10	LASU2	40.693	-92.006	-0.061	0.520	14.780	13.622	14.180	14.049	1.746	-0.434
PM10	LAVO1	40.54	-121.577	0.005	0.795	3.763	3.866	3.923	3.814	0.496	0.143
PM10	LIGO1	35.972	-81.933	-0.245	0.000	12.357	7.694	9.489	9.903	2.086	-2.479
PM10	LOST1	48.642	-102.402	-0.019	0.650	9.059	8.706	8.889	8.883	0.954	-0.209
PM10	MACA1	37.132	-86.148	-0.287	0.000	14.659	9.199	11.695	11.929	2.062	-2.409
PM10	MAVI1	41.331	-70.785	0.085	0.365	9.796	11.420	11.658	10.736	2.172	0.796
PM10	MEAD1	36.019	-114.068	-0.133	0.070	8.947	6.416	7.557	7.482	1.196	-1.780
PM10	MELA1	48.487	-104.476	-0.014	0.795	8.011	7.749	7.712	7.880	0.968	-0.175
PM10	MEVE1	37.198	-108.491	-0.063	0.023	5.168	3.964	4.737	4.566	0.998	-1.389
PM10	MING1	36.972	-90.143	-0.227	0.000	16.988	12.684	15.064	14.722	2.407	-1.539
PM10	MOHO1	45.289	-121.784	-0.019	0.173	2.253	1.900	2.169	2.077	0.401	-0.893
PM10	MOMO1	41.821	-73.297	-0.172	0.000	8.977	5.709	6.742	7.085	1.119	-2.427
PM10	MONT1	47.122	-113.154	-0.016	0.310	3.350	3.050	3.294	3.192	0.483	-0.494
PM10	MOOS1	45.126	-67.266	-0.116	0.000	6.137	3.931	5.128	5.034	0.892	-2.307
PM10	MORA1	46.758	-122.124	-0.064	0.009	4.702	3.494	4.247	4.098	0.669	-1.551
PM10	MOZI1	40.538	-106.677	-0.077	0.019	4.094	2.634	3.483	3.326	0.717	-2.311
PM10	NEBR1	41.889	-100.339	-0.128	0.008	8.824	6.400	7.670	7.421	1.331	-1.719
PM10	NOAB1	44.745	-109.382	-0.109	0.000	4.339	2.277	3.371	3.363	0.783	-3.227
PM10	NOCA1	48.732	-121.065	-0.043	0.004	2.852	2.039	2.568	2.446	0.435	-1.749



Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
PM10	NOCH1	45.65	-106.557	-0.043	0.048	4.711	3.897	4.323	4.240	0.446	-1.010
PM10	OKEF1	30.74	-82.128	-0.159	0.000	12.772	9.749	11.529	11.261	1.652	-1.413
PM10	OLYM1	48.007	-122.973	-0.090	0.000	4.618	2.899	3.730	3.668	0.569	-2.467
PM10	ORPI1	31.951	-112.802	-0.007	0.934	10.642	10.519	10.737	10.571	1.057	-0.061
PM10	PASA1	48.388	-119.927	-0.010	0.421	2.401	2.217	2.461	2.304	0.461	-0.421
PM10	PEFO1	35.078	-109.769	-0.032	0.399	6.564	5.957	6.528	6.261	1.175	-0.510
PM10	PENO1	44.948	-68.648	-0.021	0.622	8.049	7.643	7.816	7.782	0.885	-0.274
PM10	PINN1	36.483	-121.157	0.021	0.475	8.980	9.371	9.096	9.175	1.063	0.224
PM10	PMRF1	44.528	-72.869	-0.113	0.000	6.789	4.643	5.557	5.659	0.744	-1.995
PM10	PORE1	38.122	-122.909	-0.034	0.243	12.607	11.958	11.928	12.283	1.150	-0.278
PM10	PRIS1	46.696	-68.033	-0.120	0.016	9.558	7.269	8.617	8.353	1.197	-1.442
PM10	QUCI1	39.943	-81.338	-0.268	0.000	15.592	10.494	12.698	12.909	1.817	-2.078
PM10	QURE1	42.299	-72.335	-0.184	0.000	8.730	5.228	7.089	7.255	0.935	-2.540
PM10	QUVA1	33.294	-111.286	-0.242	0.009	14.771	10.180	13.062	12.838	1.924	-1.882
PM10	RAFA1	34.734	-120.007	-0.056	0.475	11.426	10.363	10.904	10.895	1.573	-0.514
PM10	REDW1	41.561	-124.084	-0.022	0.516	6.103	5.693	6.159	5.898	0.865	-0.366
PM10	ROMA1	32.941	-79.657	-0.209	0.001	14.898	10.934	12.799	12.916	1.649	-1.615
PM10	ROMO1	40.278	-105.546	-0.095	0.001	5.193	3.388	4.489	4.290	0.789	-2.215
PM10	SACR1	33.46	-104.404	0.083	0.310	13.575	15.158	14.723	14.408	2.441	0.579
PM10	SAGA1	34.297	-118.028	-0.082	0.059	8.823	7.267	7.950	7.963	1.405	-1.028
PM10	SAGO1	34.194	-116.913	-0.204	0.001	11.108	7.236	9.413	9.172	1.654	-2.222
PM10	SAGU1	32.175	-110.737	-0.052	0.278	11.428	10.446	10.778	10.911	1.048	-0.473
PM10	SAMA1	30.093	-84.161	-0.209	0.000	13.120	9.151	11.083	11.031	1.406	-1.894
PM10	SAPE1	36.014	-106.845	-0.062	0.033	4.424	3.243	3.897	3.803	0.683	-1.635
PM10	SAWE1	32.249	-111.218	-0.138	0.161	16.329	13.698	15.150	14.875	1.819	-0.931
PM10	SAWT1	44.171	-114.927	-0.066	0.001	3.416	2.160	2.837	2.755	0.582	-2.399
PM10	SENE1	46.289	-85.95	-0.054	0.011	5.221	4.188	4.691	4.705	0.576	-1.156
PM10	SEQU1	36.489	-118.829	-0.111	0.399	16.864	14.748	15.859	15.806	2.286	-0.704
PM10	SHEN1	38.523	-78.435	-0.232	0.000	11.347	6.941	8.942	9.144	1.571	-2.536
PM10	SHMI1	37.304	-107.484	-0.024	0.656	6.678	6.223	6.191	6.390	0.720	-0.375
PM10	SHRO1	35.394	-82.774	-0.184	0.007	9.026	5.526	7.106	7.184	1.584	-2.565
PM10	SIAN1	34.091	-110.942	-0.191	0.002	8.528	4.899	7.032	7.096	1.084	-2.692
PM10	SIME1	55.326	-160.506	-0.012	0.520	5.928	5.701	5.698	5.803	0.572	-0.206
PM10	SIPS1	34.343	-87.339	-0.378	0.000	15.934	8.751	12.474	12.342	2.598	-3.063
PM10	SNPA1	47.422	-121.426	-0.052	0.016	3.351	2.370	2.801	2.860	0.531	-1.806
PM10	STAR1	45.225	-118.513	-0.084	0.038	4.812	3.218	4.378	4.015	1.230	-2.089

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
PM10	SULA1	45.86	-114	-0.030	0.064	2.964	2.400	2.790	2.667	0.504	-1.114
PM10	SWAN1	35.451	-76.207	-0.202	0.000	13.200	9.370	11.191	11.084	1.513	-1.819
PM10	SYCA1	35.141	-111.969	-0.072	0.347	9.163	7.788	8.720	8.584	1.164	-0.843
PM10	TALL1	38.434	-96.56	-0.133	0.161	14.299	11.775	13.071	12.838	1.727	-1.035
PM10	THBA1	44.663	-105.287	-0.100	0.038	8.228	6.331	7.334	7.080	1.122	-1.410
PM10	THRO1	46.895	-103.378	-0.060	0.052	8.590	7.452	7.951	8.021	0.704	-0.747
PM10	THSI1	44.291	-122.043	-0.034	0.270	3.326	2.679	3.052	3.003	0.513	-1.135
PM10	TONT1	33.655	-111.107	-0.056	0.194	9.763	8.706	9.193	9.235	0.929	-0.603
PM10	TRCR1	62.315	-150.316	0.000	0.970	2.749	2.743	2.744	2.746	0.302	-0.011
PM10	TRIN1	40.786	-122.805	-0.056	0.177	4.296	3.236	3.895	3.822	0.579	-1.460
PM10	ULBE1	47.582	-108.72	-0.058	0.009	5.565	4.455	4.950	5.010	0.568	-1.166
PM10	UPBU1	35.826	-93.203	-0.379	0.000	16.127	8.917	12.151	12.522	2.761	-3.031
PM10	VIIS1	18.336	-64.796	0.169	0.187	13.085	16.291	15.166	14.603	2.061	1.156
PM10	VILA1	40.969	-95.045	-0.270	0.011	18.327	13.189	15.722	15.352	2.039	-1.761
PM10	VOYA2	48.413	-92.829	-0.077	0.001	5.652	4.196	4.962	4.924	0.716	-1.556
PM10	WEMI1	37.659	-107.8	-0.052	0.001	4.395	3.411	3.906	3.903	0.428	-1.328
PM10	WHIT1	33.469	-105.535	-0.043	0.384	6.640	5.825	6.752	6.190	1.318	-0.693
PM10	WHPA1	46.624	-121.388	-0.032	0.016	2.039	1.422	1.881	1.731	0.528	-1.876
PM10	WHPE1	36.585	-105.452	-0.073	0.025	4.211	2.834	3.702	3.450	0.635	-2.102
PM10	WHRI1	39.154	-106.821	-0.078	0.002	3.819	2.340	3.069	3.080	0.546	-2.528
PM10	WICA1	43.558	-103.484	-0.036	0.046	5.613	4.936	5.380	5.292	0.721	-0.673
PM10	WIMO1	34.732	-98.713	-0.133	0.023	14.637	12.119	13.298	13.312	1.472	-0.995
PM10	YELL2	44.565	-110.4	-0.056	0.000	3.468	2.399	2.931	2.934	0.462	-1.917
PM10	YOSE1	37.713	-119.706	-0.032	0.559	7.216	6.616	6.963	6.916	0.866	-0.457
PM10	ZICA1	37.198	-113.151	-0.057	0.323	7.935	6.855	7.291	7.310	1.074	-0.778

**Table 6.2.3. IMPROVE short-term (2000–2019) 90<sup>th</sup> percentile mass trends for sites that met completeness criteria (see Chapter 6). Species include sulfate ion (SO<sub>4</sub>), nitrate ion (NO<sub>3</sub>), organic carbon (OC), elemental carbon (EC), fine dust (FD), gravimetric PM<sub>2.5</sub> mass (FM), coarse mass (CM), and gravimetric PM<sub>10</sub> mass (PM<sub>10</sub>). The slope is derived from a linear trend regression, beginning and end year concentrations are based on the linear fit for year 2000 and 2019, the mean and median 90<sup>th</sup> percentile concentrations over the 2000-2019 period, standard deviation in the mean over the 2000-2019 period, and trend is the slope divided by the median concentration times 100.**

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% yr <sup>-1</sup> )
SO4	ACAD1	44.377	-68.261	-0.204	0.000	4.169	0.301	2.418	2.235	1.210	-9.108
SO4	AGTI1	33.464	-116.971	-0.172	0.000	4.032	0.758	2.719	2.309	1.000	-7.462
SO4	BADL1	43.743	-101.941	-0.054	0.000	1.974	0.940	1.507	1.457	0.428	-3.734
SO4	BALD1	34.058	-109.441	-0.033	0.000	1.282	0.662	0.987	0.956	0.211	-3.411
SO4	BAND1	35.78	-106.266	-0.031	0.000	1.310	0.727	0.996	1.018	0.207	-3.015
SO4	BIBE1	29.303	-103.178	-0.100	0.000	4.311	2.418	3.373	3.365	0.662	-2.961
SO4	BLIS1	38.976	-120.103	-0.019	0.000	1.053	0.688	0.862	0.880	0.135	-2.180
SO4	BOAP1	33.869	-106.852	-0.036	0.000	1.580	0.888	1.225	1.234	0.265	-2.955
SO4	BOND1	40.052	-88.373	-0.347	0.000	7.851	1.266	4.937	4.385	2.288	-7.904
SO4	BOWA1	47.947	-91.495	-0.101	0.000	2.702	0.781	1.813	1.741	0.673	-5.806
SO4	BRCA1	37.618	-112.174	-0.024	0.000	1.096	0.631	0.836	0.863	0.181	-2.836
SO4	BRID1	42.975	-109.758	-0.024	0.000	0.863	0.398	0.684	0.631	0.164	-3.883
SO4	BRIG1	39.465	-74.449	-0.458	0.000	8.761	0.063	5.212	4.412	2.945	-10.375
SO4	BRMA1	44.107	-70.729	-0.284	0.000	4.901	-0.487	3.172	2.633	1.462	-10.772
SO4	CABA1	43.833	-70.064	-0.270	0.000	5.291	0.164	2.840	2.592	1.575	-10.408
SO4	CABI1	47.955	-115.671	-0.022	0.000	0.885	0.466	0.646	0.664	0.136	-3.322
SO4	CACO1	41.976	-70.024	-0.342	0.000	6.278	-0.221	3.769	2.857	2.163	-11.971
SO4	CACR1	34.454	-94.143	-0.288	0.000	6.567	1.096	4.355	3.687	1.928	-7.808
SO4	CANY1	38.459	-109.821	-0.031	0.000	1.126	0.531	0.831	0.828	0.203	-3.778
SO4	CAPI1	38.302	-111.293	-0.026	0.000	1.065	0.565	0.795	0.789	0.173	-3.337
SO4	CEBL1	38.77	-99.763	-0.130	0.000	3.664	1.193	2.344	2.233	0.734	-5.825
SO4	CHAS1	28.748	-82.555	-0.254	0.000	5.896	1.074	3.786	3.485	1.657	-7.282
SO4	CHIR1	32.009	-109.389	-0.034	0.000	1.690	1.046	1.348	1.368	0.225	-2.477
SO4	COHU1	34.785	-84.627	-0.570	0.000	9.987	-0.836	5.090	4.006	3.246	-14.219
SO4	CORI1	45.664	-121.001	-0.052	0.000	1.672	0.683	1.267	1.177	0.399	-4.421
SO4	CRLA1	42.896	-122.136	-0.013	0.000	0.710	0.459	0.578	0.585	0.096	-2.259
SO4	CRMO1	43.46	-113.555	-0.021	0.000	0.852	0.453	0.659	0.652	0.155	-3.218
SO4	DENA1	63.723	-148.967	-0.007	0.243	0.750	0.622	0.700	0.686	0.258	-0.978
SO4	DOME1	35.728	-118.138	-0.037	0.000	1.891	1.196	1.628	1.525	0.276	-2.396
SO4	DOSO1	39.105	-79.426	-0.478	0.000	9.536	0.453	5.696	4.995	3.105	-9.572
SO4	EGBE1	44.231	-79.783	-0.233	0.000	5.968	1.547	3.096	3.060	1.266	-7.604

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	ELDO1	37.701	-94.035	-0.307	0.000	6.543	0.708	4.386	3.933	1.623	-7.809
SO4	EVER1	25.391	-80.681	-0.170	0.000	4.429	1.196	3.095	2.727	1.069	-6.240
SO4	FLAT1	47.773	-114.269	-0.023	0.000	0.913	0.480	0.659	0.663	0.137	-3.436
SO4	FOPE1	48.308	-105.102	-0.043	0.001	2.028	1.215	1.618	1.557	0.380	-2.747
SO4	FRRE1	39.706	-79.012	-0.547	0.000	10.684	0.299	5.239	4.398	3.020	-12.427
SO4	GAMO1	46.826	-111.711	-0.022	0.000	0.816	0.397	0.597	0.596	0.142	-3.699
SO4	GICL1	33.22	-108.235	-0.042	0.000	1.414	0.625	1.059	1.020	0.274	-4.071
SO4	GLAC1	48.511	-113.997	-0.034	0.000	1.147	0.510	0.888	0.829	0.237	-4.045
SO4	GRBA1	39.005	-114.216	-0.022	0.000	1.010	0.589	0.776	0.799	0.158	-2.771
SO4	GRCA3	36.066	-112.154	-0.026	0.000	1.185	0.682	0.939	0.933	0.193	-2.837
SO4	GRGU1	44.308	-71.218	-0.219	0.000	4.491	0.338	2.599	2.305	1.577	-9.483
SO4	GRR11	43.937	-91.405	-0.247	0.000	5.494	0.809	3.018	2.782	1.325	-8.864
SO4	GRSA1	37.725	-105.519	-0.028	0.000	1.070	0.541	0.795	0.805	0.187	-3.457
SO4	GRSM1	35.633	-83.942	-0.505	0.000	9.248	-0.356	5.585	4.446	3.450	-11.370
SO4	GUMO1	31.833	-104.809	-0.051	0.000	2.428	1.461	2.057	1.944	0.407	-2.616
SO4	HAVO1	19.431	-155.258	-0.036	0.700	6.123	5.436	6.332	5.761	2.787	-0.627
SO4	HECA1	44.97	-116.844	-0.024	0.000	0.946	0.496	0.716	0.709	0.159	-3.344
SO4	HEGL1	36.614	-92.922	-0.290	0.000	6.846	1.335	4.148	3.946	1.934	-7.351
SO4	HOOV1	38.088	-119.177	-0.015	0.004	0.955	0.661	0.770	0.792	0.129	-1.952
SO4	IKBA1	34.34	-111.683	-0.034	0.000	1.544	0.891	1.236	1.218	0.253	-2.823
SO4	ISLE1	47.46	-88.149	-0.122	0.000	3.360	1.048	2.141	2.204	0.794	-5.522
SO4	JARB1	41.893	-115.426	-0.013	0.002	0.762	0.521	0.631	0.642	0.105	-1.971
SO4	JARI1	37.627	-79.512	-0.526	0.000	9.655	-0.348	5.223	4.390	3.223	-11.992
SO4	JOSH1	34.07	-116.389	-0.062	0.000	2.238	1.064	1.661	1.651	0.429	-3.740
SO4	KAIS1	37.221	-119.155	-0.015	0.025	1.262	0.969	1.103	1.101	0.166	-1.402
SO4	KALM1	42.552	-124.059	-0.025	0.000	1.110	0.629	0.871	0.870	0.175	-2.914
SO4	LABEL1	41.712	-121.507	-0.020	0.000	0.863	0.485	0.688	0.674	0.142	-2.952
SO4	LASU2	40.693	-92.006	-0.284	0.000	6.377	0.982	3.441	2.969	1.616	-9.563
SO4	LAVO1	40.54	-121.577	-0.023	0.000	1.023	0.582	0.789	0.802	0.158	-2.889
SO4	LIGO1	35.972	-81.933	-0.526	0.000	9.028	-0.957	5.360	4.036	3.541	-13.022
SO4	LOST1	48.642	-102.402	-0.067	0.000	2.485	1.211	1.952	1.848	0.545	-3.629
SO4	MACA1	37.132	-86.148	-0.466	0.000	9.681	0.822	5.876	5.252	2.982	-8.879
SO4	MAVI1	41.331	-70.785	-0.347	0.000	7.087	0.491	3.585	3.268	2.120	-10.621
SO4	MEAD1	36.019	-114.068	-0.047	0.000	1.735	0.841	1.210	1.218	0.254	-3.867
SO4	MELA1	48.487	-104.476	-0.037	0.001	1.997	1.289	1.623	1.643	0.284	-2.267
SO4	MEVE1	37.198	-108.491	-0.029	0.000	1.138	0.594	0.848	0.866	0.192	-3.304

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SO4	MING1	36.972	-90.143	-0.382	0.000	8.205	0.948	5.041	4.386	2.575	-8.709
SO4	MOHO1	45.289	-121.784	-0.026	0.000	0.940	0.446	0.705	0.693	0.175	-3.747
SO4	MOMO1	41.821	-73.297	-0.358	0.000	6.899	0.096	3.671	3.139	2.158	-11.404
SO4	MONT1	47.122	-113.154	-0.022	0.000	0.861	0.450	0.638	0.645	0.140	-3.350
SO4	MOOS1	45.126	-67.266	-0.160	0.000	3.484	0.447	2.190	1.966	1.040	-8.130
SO4	MORA1	46.758	-122.124	-0.046	0.000	1.430	0.554	1.085	0.992	0.362	-4.645
SO4	MOZI1	40.538	-106.677	-0.030	0.000	0.970	0.392	0.699	0.666	0.184	-4.563
SO4	NEBR1	41.889	-100.339	-0.095	0.000	2.951	1.145	1.804	1.905	0.521	-4.989
SO4	NOAB1	44.745	-109.382	-0.025	0.000	0.917	0.444	0.660	0.668	0.165	-3.726
SO4	NOCA1	48.732	-121.065	-0.042	0.000	1.332	0.539	0.957	0.935	0.284	-4.463
SO4	NOCH1	45.65	-106.557	-0.027	0.000	1.280	0.763	0.975	0.981	0.147	-2.776
SO4	OKEF1	30.74	-82.128	-0.268	0.000	6.345	1.255	4.018	3.800	1.744	-7.051
SO4	OLYM1	48.007	-122.973	-0.042	0.000	1.535	0.744	1.040	1.098	0.253	-3.795
SO4	ORPI1	31.951	-112.802	-0.056	0.000	2.273	1.208	1.717	1.656	0.335	-3.384
SO4	PASA1	48.388	-119.927	-0.016	0.000	0.760	0.449	0.586	0.596	0.110	-2.742
SO4	PEFO1	35.078	-109.769	-0.033	0.000	1.365	0.746	1.044	1.055	0.240	-3.088
SO4	PENO1	44.948	-68.648	-0.195	0.000	4.221	0.524	1.925	1.789	0.866	-10.878
SO4	PINN1	36.483	-121.157	-0.055	0.000	1.999	0.958	1.430	1.478	0.351	-3.704
SO4	PMRF1	44.528	-72.869	-0.286	0.000	5.778	0.348	3.236	2.920	1.808	-9.786
SO4	PORE1	38.122	-122.909	-0.067	0.000	2.461	1.181	1.706	1.821	0.456	-3.698
SO4	PRIS1	46.696	-68.033	-0.132	0.000	3.103	0.594	2.024	1.783	1.052	-7.406
SO4	QUCI1	39.943	-81.338	-0.577	0.000	11.876	0.910	6.567	6.104	3.599	-9.455
SO4	QURE1	42.299	-72.335	-0.357	0.000	6.307	-0.467	4.196	3.455	1.794	-10.321
SO4	QUVA1	33.294	-111.286	-0.025	0.067	1.869	1.401	1.652	1.672	0.247	-1.472
SO4	RAFA1	34.734	-120.007	-0.078	0.000	2.400	0.912	1.739	1.656	0.509	-4.729
SO4	REDW1	41.561	-124.084	-0.028	0.000	1.318	0.784	1.058	1.051	0.211	-2.674
SO4	ROMA1	32.941	-79.657	-0.345	0.000	7.431	0.881	4.604	4.156	2.312	-8.295
SO4	ROMO1	40.278	-105.546	-0.034	0.000	1.152	0.507	0.851	0.829	0.231	-4.096
SO4	SACR1	33.46	-104.404	-0.068	0.000	2.993	1.703	2.412	2.314	0.492	-2.935
SO4	SAGA1	34.297	-118.028	-0.066	0.000	2.250	0.988	1.525	1.553	0.409	-4.278
SO4	SAGO1	34.194	-116.913	-0.063	0.000	2.110	0.920	1.582	1.515	0.466	-4.132
SO4	SAGU1	32.175	-110.737	-0.044	0.000	1.898	1.055	1.495	1.454	0.304	-3.052
SO4	SAMA1	30.093	-84.161	-0.306	0.000	6.653	0.844	4.117	3.595	2.004	-8.504
SO4	SAPE1	36.014	-106.845	-0.026	0.000	1.131	0.628	0.852	0.867	0.193	-3.053
SO4	SAWE1	32.249	-111.218	-0.046	0.000	2.006	1.127	1.529	1.521	0.321	-3.043
SO4	SAWT1	44.171	-114.927	-0.011	0.004	0.708	0.490	0.582	0.599	0.103	-1.917

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SO4	SENE1	46.289	-85.95	-0.214	0.000	4.812	0.750	3.061	2.781	1.518	-7.688
SO4	SEQU1	36.489	-118.829	-0.060	0.000	2.596	1.464	2.159	2.030	0.429	-2.935
SO4	SHEN1	38.523	-78.435	-0.530	0.000	9.442	-0.626	5.790	4.408	3.494	-12.021
SO4	SHMI1	37.304	-107.484	-0.036	0.000	1.172	0.497	0.743	0.746	0.175	-4.768
SO4	SHRO1	35.394	-82.774	-0.475	0.000	8.870	-0.154	4.858	4.358	2.977	-10.898
SO4	SIAN1	34.091	-110.942	-0.028	0.004	1.459	0.929	1.272	1.250	0.194	-2.229
SO4	SIME1	55.326	-160.506	-0.003	0.211	1.082	1.017	1.129	1.046	0.196	-0.330
SO4	SIPS1	34.343	-87.339	-0.436	0.000	8.607	0.324	5.350	4.466	2.937	-9.763
SO4	SNPA1	47.422	-121.426	-0.041	0.000	1.270	0.487	0.957	0.879	0.341	-4.688
SO4	STAR1	45.225	-118.513	-0.024	0.000	0.943	0.485	0.712	0.714	0.160	-3.378
SO4	SULA1	45.86	-114	-0.016	0.000	0.763	0.451	0.586	0.607	0.117	-2.698
SO4	SWAN1	35.451	-76.207	-0.357	0.000	7.344	0.560	4.308	3.773	2.229	-9.462
SO4	SYCA1	35.141	-111.969	-0.027	0.004	1.258	0.737	1.109	1.052	0.191	-2.608
SO4	TALL1	38.434	-96.56	-0.189	0.000	4.986	1.389	3.182	2.903	1.144	-6.522
SO4	THBA1	44.663	-105.287	-0.033	0.002	1.451	0.817	1.040	1.067	0.216	-3.129
SO4	THRO1	46.895	-103.378	-0.039	0.002	1.944	1.196	1.584	1.570	0.341	-2.508
SO4	THSI1	44.291	-122.043	-0.026	0.000	1.000	0.497	0.753	0.749	0.180	-3.535
SO4	TONT1	33.655	-111.107	-0.036	0.000	1.784	1.102	1.405	1.443	0.256	-2.485
SO4	TRCR1	62.315	-150.316	-0.017	0.063	0.851	0.525	0.684	0.671	0.192	-2.553
SO4	TRIN1	40.786	-122.805	-0.025	0.000	1.055	0.574	0.841	0.840	0.189	-3.015
SO4	ULBE1	47.582	-108.72	-0.028	0.000	1.393	0.868	1.118	1.131	0.206	-2.443
SO4	UPBU1	35.826	-93.203	-0.260	0.000	6.200	1.264	4.135	3.732	1.812	-6.962
SO4	VIIS1	18.336	-64.796	-0.020	0.458	1.866	1.482	1.762	1.684	0.454	-1.201
SO4	VILA1	40.969	-95.045	-0.200	0.000	4.992	1.186	3.132	2.789	1.200	-7.184
SO4	VOYA2	48.413	-92.829	-0.089	0.000	2.694	1.003	1.781	1.849	0.528	-4.816
SO4	WEMI1	37.659	-107.8	-0.028	0.000	1.017	0.494	0.756	0.755	0.197	-3.642
SO4	WHIT1	33.469	-105.535	-0.039	0.014	1.936	1.191	1.573	1.524	0.385	-2.573
SO4	WHPA1	46.624	-121.388	-0.027	0.000	0.860	0.352	0.659	0.606	0.186	-4.409
SO4	WHPE1	36.585	-105.452	-0.024	0.000	1.050	0.588	0.750	0.795	0.163	-3.055
SO4	WHRI1	39.154	-106.821	-0.024	0.000	0.869	0.416	0.646	0.642	0.159	-3.705
SO4	WICA1	43.558	-103.484	-0.045	0.000	1.609	0.747	1.196	1.178	0.293	-3.850
SO4	WIMO1	34.732	-98.713	-0.197	0.000	5.201	1.464	3.625	3.234	1.455	-6.082
SO4	YELL2	44.565	-110.4	-0.020	0.000	0.813	0.443	0.638	0.628	0.128	-3.105
SO4	YOSE1	37.713	-119.706	-0.028	0.001	1.457	0.916	1.184	1.187	0.213	-2.396
SO4	ZICA1	37.198	-113.151	-0.042	0.000	1.405	0.600	0.991	0.939	0.252	-4.510
NO3	ACAD1	44.377	-68.261	-0.022	0.002	0.771	0.362	0.564	0.555	0.181	-3.878

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NO3	AGTI1	33.464	-116.971	-0.148	0.000	3.345	0.533	2.273	1.865	1.030	-7.938
NO3	BADL1	43.743	-101.941	-0.007	0.421	0.797	0.671	0.773	0.730	0.187	-0.909
NO3	BALD1	34.058	-109.441	-0.004	0.013	0.303	0.222	0.257	0.260	0.039	-1.636
NO3	BAND1	35.78	-106.266	-0.011	0.003	0.450	0.237	0.322	0.338	0.091	-3.317
NO3	BIBE1	29.303	-103.178	-0.005	0.064	0.405	0.312	0.385	0.356	0.064	-1.364
NO3	BLIS1	38.976	-120.103	-0.013	0.000	0.420	0.181	0.325	0.300	0.087	-4.191
NO3	BOAP1	33.869	-106.852	-0.014	0.013	0.544	0.284	0.432	0.407	0.131	-3.360
NO3	BOND1	40.052	-88.373	-0.082	0.115	5.544	3.992	4.665	4.727	0.881	-1.728
NO3	BOWA1	47.947	-91.495	-0.029	0.054	1.429	0.877	1.261	1.138	0.398	-2.553
NO3	BRCA1	37.618	-112.174	-0.012	0.000	0.458	0.237	0.352	0.342	0.091	-3.405
NO3	BRID1	42.975	-109.758	-0.005	0.033	0.291	0.202	0.236	0.244	0.047	-1.907
NO3	BRIG1	39.465	-74.449	-0.053	0.000	2.449	1.434	1.903	1.915	0.397	-2.792
NO3	BRMA1	44.107	-70.729	-0.012	0.042	0.565	0.341	0.517	0.471	0.129	-2.499
NO3	CABA1	43.833	-70.064	-0.019	0.023	0.945	0.589	0.767	0.757	0.242	-2.474
NO3	CABI1	47.955	-115.671	-0.004	0.039	0.277	0.210	0.242	0.242	0.041	-1.456
NO3	CACO1	41.976	-70.024	-0.024	0.002	1.104	0.643	0.840	0.862	0.180	-2.819
NO3	CACR1	34.454	-94.143	-0.062	0.000	2.119	0.947	1.412	1.502	0.433	-4.109
NO3	CANY1	38.459	-109.821	-0.018	0.000	0.550	0.208	0.429	0.370	0.179	-4.872
NO3	CAPI1	38.302	-111.293	-0.011	0.004	0.479	0.278	0.377	0.368	0.116	-2.884
NO3	CEBL1	38.77	-99.763	-0.098	0.021	3.354	1.494	2.439	2.277	0.938	-4.299
NO3	CHAS1	28.748	-82.555	-0.009	0.016	0.664	0.493	0.582	0.574	0.081	-1.570
NO3	CHIR1	32.009	-109.389	-0.003	0.132	0.312	0.255	0.295	0.282	0.060	-1.069
NO3	COHU1	34.785	-84.627	-0.046	0.000	1.534	0.658	1.041	1.050	0.290	-4.388
NO3	CORI1	45.664	-121.001	-0.042	0.221	2.756	1.967	2.385	2.341	0.885	-1.775
NO3	CRLA1	42.896	-122.136	-0.003	0.382	0.186	0.138	0.193	0.160	0.107	-1.577
NO3	CRMO1	43.46	-113.555	-0.044	0.007	1.352	0.525	0.909	0.917	0.346	-4.750
NO3	DENA1	63.723	-148.967	-0.002	0.100	0.117	0.080	0.107	0.098	0.036	-2.019
NO3	DOME1	35.728	-118.138	-0.092	0.000	2.315	0.564	1.507	1.347	0.730	-6.841
NO3	DOSO1	39.105	-79.426	-0.021	0.011	1.143	0.741	0.972	0.931	0.208	-2.274
NO3	EGBE1	44.231	-79.783	-0.085	0.055	5.033	3.425	3.899	3.975	0.726	-2.129
NO3	ELDO1	37.701	-94.035	-0.126	0.033	4.613	2.215	3.621	3.540	0.873	-3.565
NO3	EVER1	25.391	-80.681	-0.009	0.019	0.616	0.446	0.562	0.527	0.097	-1.705
NO3	FLAT1	47.773	-114.269	-0.010	0.008	0.370	0.183	0.278	0.262	0.076	-3.760
NO3	FOPE1	48.308	-105.102	-0.014	0.410	1.715	1.454	1.540	1.564	0.325	-0.879
NO3	FRRE1	39.706	-79.012	-0.011	0.368	1.413	1.197	1.289	1.283	0.271	-0.885
NO3	GAMO1	46.826	-111.711	-0.005	0.016	0.299	0.196	0.237	0.245	0.060	-2.217

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NO3	GICL1	33.22	-108.235	-0.002	0.115	0.217	0.180	0.206	0.198	0.032	-0.999
NO3	GLAC1	48.511	-113.997	-0.010	0.151	0.511	0.314	0.484	0.407	0.215	-2.550
NO3	GRBA1	39.005	-114.216	-0.009	0.000	0.329	0.153	0.242	0.237	0.058	-3.904
NO3	GRCA3	36.066	-112.154	-0.008	0.003	0.393	0.242	0.318	0.313	0.058	-2.535
NO3	GRGU1	44.308	-71.218	-0.007	0.045	0.420	0.277	0.360	0.345	0.088	-2.173
NO3	GRR11	43.937	-91.405	-0.150	0.007	6.232	3.381	4.522	4.581	1.090	-3.276
NO3	GRSA1	37.725	-105.519	-0.012	0.000	0.394	0.159	0.286	0.270	0.086	-4.586
NO3	GRSM1	35.633	-83.942	-0.041	0.000	1.198	0.415	0.866	0.786	0.283	-5.242
NO3	GUMO1	31.833	-104.809	-0.012	0.019	0.584	0.363	0.484	0.468	0.116	-2.481
NO3	HAVO1	19.431	-155.258	-0.002	0.019	0.154	0.113	0.137	0.132	0.021	-1.668
NO3	HECA1	44.97	-116.844	-0.060	0.006	1.213	0.076	0.956	0.615	0.710	-9.741
NO3	HEGL1	36.614	-92.922	-0.069	0.011	2.843	1.533	2.083	2.154	0.562	-3.199
NO3	HOOV1	38.088	-119.177	-0.006	0.075	0.307	0.203	0.246	0.250	0.061	-2.204
NO3	IKBA1	34.34	-111.683	-0.015	0.000	0.594	0.303	0.487	0.441	0.115	-3.473
NO3	ISLE1	47.46	-88.149	-0.015	0.463	1.216	0.938	1.175	1.070	0.446	-1.368
NO3	JARB1	41.893	-115.426	-0.005	0.028	0.227	0.140	0.188	0.181	0.044	-2.552
NO3	JARI1	37.627	-79.512	-0.034	0.000	1.380	0.726	1.108	1.036	0.286	-3.325
NO3	JOSH1	34.07	-116.389	-0.145	0.000	2.941	0.191	1.766	1.494	0.888	-9.691
NO3	KAIS1	37.221	-119.155	-0.034	0.000	1.094	0.445	0.796	0.735	0.235	-4.647
NO3	KALM1	42.552	-124.059	-0.007	0.007	0.327	0.189	0.279	0.254	0.055	-2.869
NO3	LABE1	41.712	-121.507	-0.004	0.115	0.262	0.189	0.259	0.224	0.096	-1.725
NO3	LASU2	40.693	-92.006	-0.173	0.006	6.288	3.007	4.274	4.216	1.068	-4.096
NO3	LAVO1	40.54	-121.577	-0.007	0.023	0.352	0.223	0.311	0.284	0.089	-2.402
NO3	LIGO1	35.972	-81.933	-0.011	0.033	0.644	0.434	0.538	0.534	0.140	-2.069
NO3	LOST1	48.642	-102.402	-0.035	0.064	2.332	1.661	1.989	1.979	0.295	-1.783
NO3	MACA1	37.132	-86.148	-0.071	0.001	3.074	1.724	2.347	2.363	0.568	-3.006
NO3	MAVI1	41.331	-70.785	-0.018	0.000	1.231	0.884	1.043	1.030	0.114	-1.775
NO3	MEAD1	36.019	-114.068	-0.009	0.013	0.486	0.306	0.391	0.382	0.066	-2.482
NO3	MELA1	48.487	-104.476	-0.017	0.196	1.752	1.430	1.618	1.583	0.313	-1.071
NO3	MEVE1	37.198	-108.491	-0.011	0.000	0.388	0.182	0.282	0.280	0.089	-3.882
NO3	MING1	36.972	-90.143	-0.105	0.001	3.627	1.633	2.479	2.577	0.734	-4.073
NO3	MOHO1	45.289	-121.784	-0.013	0.000	0.441	0.202	0.348	0.315	0.088	-3.981
NO3	MOMO1	41.821	-73.297	-0.013	0.344	1.198	0.955	1.110	1.064	0.212	-1.201
NO3	MONT1	47.122	-113.154	-0.003	0.211	0.173	0.122	0.169	0.148	0.059	-1.812
NO3	MOOS1	45.126	-67.266	-0.015	0.005	0.600	0.309	0.465	0.447	0.121	-3.421
NO3	MORA1	46.758	-122.124	-0.008	0.000	0.327	0.181	0.273	0.250	0.067	-3.072



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NO3	MOZI1	40.538	-106.677	-0.006	0.009	0.290	0.183	0.260	0.234	0.067	-2.412
NO3	NEBR1	41.889	-100.339	-0.051	0.084	2.366	1.404	1.788	1.809	0.572	-2.800
NO3	NOAB1	44.745	-109.382	-0.009	0.002	0.350	0.187	0.268	0.264	0.062	-3.232
NO3	NOCA1	48.732	-121.065	-0.003	0.046	0.217	0.162	0.204	0.188	0.044	-1.518
NO3	NOCH1	45.65	-106.557	-0.002	0.742	0.453	0.412	0.447	0.429	0.090	-0.499
NO3	OKEF1	30.74	-82.128	-0.006	0.000	0.604	0.483	0.555	0.540	0.066	-1.173
NO3	OLYM1	48.007	-122.973	-0.010	0.005	0.554	0.363	0.478	0.449	0.091	-2.233
NO3	ORPI1	31.951	-112.802	-0.006	0.048	0.590	0.477	0.527	0.524	0.071	-1.132
NO3	PASA1	48.388	-119.927	-0.002	0.600	0.268	0.239	0.267	0.252	0.078	-0.612
NO3	PEFO1	35.078	-109.769	-0.011	0.000	0.453	0.247	0.356	0.344	0.088	-3.152
NO3	PENO1	44.948	-68.648	-0.005	0.171	0.627	0.540	0.582	0.570	0.090	-0.798
NO3	PINN1	36.483	-121.157	-0.048	0.000	1.474	0.567	1.109	0.997	0.325	-4.790
NO3	PMRF1	44.528	-72.869	-0.015	0.086	1.013	0.736	0.881	0.867	0.208	-1.683
NO3	PORE1	38.122	-122.909	-0.055	0.000	1.654	0.613	1.193	1.106	0.471	-4.951
NO3	PRIS1	46.696	-68.033	-0.007	0.151	0.615	0.481	0.556	0.545	0.139	-1.295
NO3	QUCI1	39.943	-81.338	0.008	0.649	1.883	2.038	2.127	1.964	0.542	0.415
NO3	QURE1	42.299	-72.335	-0.018	0.347	1.180	0.841	1.088	1.037	0.247	-1.722
NO3	QUVA1	33.294	-111.286	-0.022	0.003	0.788	0.372	0.656	0.612	0.205	-3.574
NO3	RAFA1	34.734	-120.007	-0.050	0.000	1.589	0.646	1.174	1.093	0.329	-4.539
NO3	REDW1	41.561	-124.084	-0.018	0.000	0.547	0.212	0.388	0.371	0.133	-4.757
NO3	ROMA1	32.941	-79.657	-0.014	0.000	0.806	0.537	0.651	0.665	0.107	-2.132
NO3	ROMO1	40.278	-105.546	-0.026	0.003	0.785	0.299	0.627	0.529	0.236	-4.838
NO3	SACR1	33.46	-104.404	-0.044	0.009	1.582	0.746	1.252	1.142	0.397	-3.856
NO3	SAGA1	34.297	-118.028	-0.108	0.000	2.895	0.838	1.933	1.758	0.713	-6.160
NO3	SAGO1	34.194	-116.913	-0.201	0.000	4.784	0.962	3.016	2.772	1.394	-7.257
NO3	SAGU1	32.175	-110.737	-0.014	0.000	0.688	0.420	0.534	0.547	0.113	-2.574
NO3	SAMA1	30.093	-84.161	-0.011	0.009	0.675	0.471	0.572	0.568	0.092	-1.888
NO3	SAPE1	36.014	-106.845	-0.006	0.005	0.317	0.204	0.262	0.258	0.054	-2.317
NO3	SAWE1	32.249	-111.218	-0.015	0.003	0.786	0.501	0.599	0.629	0.111	-2.388
NO3	SAWT1	44.171	-114.927	-0.001	0.463	0.126	0.110	0.136	0.118	0.049	-0.729
NO3	SENE1	46.289	-85.95	-0.036	0.019	1.900	1.222	1.678	1.543	0.430	-2.310
NO3	SEQU1	36.489	-118.829	-0.219	0.000	5.031	0.871	3.149	2.842	1.559	-7.704
NO3	SHEN1	38.523	-78.435	-0.043	0.000	1.777	0.970	1.368	1.352	0.287	-3.143
NO3	SHMI1	37.304	-107.484	-0.009	0.054	0.388	0.213	0.288	0.277	0.083	-3.327
NO3	SHRO1	35.394	-82.774	-0.005	0.016	0.589	0.499	0.525	0.542	0.063	-0.868
NO3	SIAN1	34.091	-110.942	-0.019	0.004	0.597	0.233	0.442	0.444	0.105	-4.314

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NO3	SIME1	55.326	-160.506	0.000	0.520	0.154	0.160	0.157	0.157	0.015	0.216
NO3	SIPS1	34.343	-87.339	-0.061	0.000	2.092	0.932	1.426	1.482	0.445	-4.120
NO3	SNPA1	47.422	-121.426	-0.017	0.002	0.647	0.329	0.504	0.479	0.129	-3.492
NO3	STAR1	45.225	-118.513	-0.012	0.115	0.545	0.320	0.521	0.427	0.263	-2.767
NO3	SULA1	45.86	-114	-0.008	0.006	0.258	0.099	0.204	0.174	0.108	-4.821
NO3	SWAN1	35.451	-76.207	-0.006	0.132	0.836	0.719	0.812	0.774	0.099	-0.796
NO3	SYCA1	35.141	-111.969	-0.008	0.125	0.468	0.314	0.403	0.403	0.066	-2.009
NO3	TALL1	38.434	-96.56	-0.132	0.002	4.637	2.120	3.135	3.180	0.818	-4.166
NO3	THBA1	44.663	-105.287	-0.019	0.150	0.870	0.511	0.623	0.653	0.190	-2.895
NO3	THRO1	46.895	-103.378	-0.030	0.132	1.687	1.117	1.366	1.387	0.353	-2.163
NO3	THSI1	44.291	-122.043	-0.003	0.023	0.203	0.147	0.187	0.174	0.044	-1.672
NO3	TONT1	33.655	-111.107	-0.015	0.000	0.593	0.314	0.473	0.446	0.095	-3.288
NO3	TRCR1	62.315	-150.316	-0.001	0.140	0.120	0.098	0.105	0.108	0.016	-1.075
NO3	TRIN1	40.786	-122.805	-0.010	0.007	0.362	0.173	0.350	0.277	0.235	-3.589
NO3	ULBE1	47.582	-108.72	-0.012	0.115	0.790	0.554	0.715	0.666	0.214	-1.869
NO3	UPBU1	35.826	-93.203	-0.094	0.000	2.984	1.194	1.865	2.042	0.579	-4.615
NO3	VIIS1	18.336	-64.796	0.002	0.547	0.422	0.458	0.430	0.442	0.058	0.434
NO3	VILA1	40.969	-95.045	-0.178	0.007	6.424	3.041	4.364	4.466	1.287	-3.986
NO3	VOYA2	48.413	-92.829	-0.034	0.039	1.653	1.015	1.305	1.317	0.396	-2.547
NO3	WEMI1	37.659	-107.8	-0.005	0.004	0.233	0.147	0.192	0.188	0.043	-2.430
NO3	WHIT1	33.469	-105.535	-0.007	0.025	0.386	0.255	0.322	0.314	0.070	-2.204
NO3	WHPA1	46.624	-121.388	-0.006	0.023	0.253	0.148	0.204	0.198	0.049	-2.797
NO3	WHPE1	36.585	-105.452	-0.007	0.000	0.324	0.190	0.243	0.250	0.050	-2.829
NO3	WHRI1	39.154	-106.821	-0.003	0.033	0.245	0.187	0.213	0.214	0.032	-1.441
NO3	WICA1	43.558	-103.484	-0.012	0.151	0.787	0.553	0.671	0.664	0.167	-1.860
NO3	WIMO1	34.732	-98.713	-0.063	0.033	2.663	1.469	2.145	2.035	0.667	-3.087
NO3	YELL2	44.565	-110.4	-0.012	0.000	0.470	0.235	0.341	0.346	0.087	-3.575
NO3	YOSE1	37.713	-119.706	-0.018	0.039	0.809	0.469	0.642	0.630	0.199	-2.842
NO3	ZICA1	37.198	-113.151	-0.009	0.000	0.386	0.215	0.308	0.287	0.062	-3.122
OC	ACAD1	44.377	-68.261	-0.021	0.069	1.834	1.429	1.596	1.632	0.254	-1.305
OC	AGTI1	33.464	-116.971	-0.071	0.000	2.464	1.118	1.855	1.791	0.519	-3.956
OC	BADL1	43.743	-101.941	-0.007	0.364	1.587	1.451	1.672	1.519	0.396	-0.470
OC	BALD1	34.058	-109.441	-0.019	0.278	1.285	0.924	1.280	1.095	0.465	-1.738
OC	BAND1	35.78	-106.266	-0.016	0.153	1.302	1.003	1.189	1.153	0.261	-1.364
OC	BIBE1	29.303	-103.178	-0.026	0.011	1.421	0.927	1.250	1.174	0.369	-2.212
OC	BLIS1	38.976	-120.103	0.024	0.221	1.648	2.097	2.050	1.861	0.516	1.269

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OC	BOAP1	33.869	-106.852	-0.011	0.270	1.439	1.221	1.320	1.330	0.254	-0.864
OC	BOND1	40.052	-88.373	-0.046	0.000	2.673	1.806	2.260	2.217	0.318	-2.061
OC	BOWA1	47.947	-91.495	-0.030	0.153	2.050	1.488	1.850	1.769	0.506	-1.673
OC	BRCA1	37.618	-112.174	0.000	1.000	1.150	1.141	1.264	1.146	0.428	-0.039
OC	BRID1	42.975	-109.758	-0.002	0.897	1.401	1.365	1.648	1.383	0.937	-0.139
OC	BRIG1	39.465	-74.449	-0.064	0.001	3.056	1.833	2.513	2.413	0.518	-2.668
OC	BRMA1	44.107	-70.729	-0.065	0.067	2.492	1.260	2.099	1.973	0.508	-3.286
OC	CABA1	43.833	-70.064	-0.049	0.002	3.006	2.082	2.608	2.520	0.495	-1.930
OC	CABI1	47.955	-115.671	0.013	0.600	2.130	2.380	2.422	2.262	0.809	0.581
OC	CACO1	41.976	-70.024	-0.040	0.007	2.412	1.645	1.970	2.009	0.328	-2.011
OC	CACR1	34.454	-94.143	-0.063	0.002	3.410	2.205	2.830	2.776	0.637	-2.285
OC	CANY1	38.459	-109.821	-0.005	0.299	0.954	0.850	0.986	0.902	0.259	-0.608
OC	CAPI1	38.302	-111.293	-0.013	0.272	1.072	0.825	1.043	0.936	0.269	-1.384
OC	CEBL1	38.77	-99.763	-0.027	0.084	1.948	1.435	1.665	1.651	0.255	-1.634
OC	CHAS1	28.748	-82.555	-0.074	0.000	3.428	2.031	2.833	2.729	0.542	-2.693
OC	CHIR1	32.009	-109.389	-0.016	0.105	0.997	0.695	0.917	0.846	0.278	-1.877
OC	COHU1	34.785	-84.627	-0.077	0.009	3.521	2.057	2.864	2.712	0.522	-2.841
OC	CORI1	45.664	-121.001	-0.030	0.364	2.838	2.274	2.537	2.556	0.538	-1.161
OC	CRLA1	42.896	-122.136	-0.002	0.916	1.733	1.691	3.595	1.711	4.375	-0.127
OC	CRMO1	43.46	-113.555	0.020	0.552	1.398	1.783	1.812	1.600	0.977	1.267
OC	DENA1	63.723	-148.967	-0.015	0.153	0.897	0.606	1.136	0.752	1.212	-2.041
OC	DOME1	35.728	-118.138	-0.022	0.345	2.430	2.019	2.331	2.214	0.588	-0.976
OC	DOSO1	39.105	-79.426	-0.066	0.000	2.716	1.462	2.158	2.089	0.445	-3.159
OC	EGBE1	44.231	-79.783	-0.015	0.477	2.190	1.905	1.958	2.003	0.226	-0.749
OC	EVER1	25.391	-80.681	-0.049	0.011	1.845	0.915	1.638	1.356	0.667	-3.614
OC	FLAT1	47.773	-114.269	-0.023	0.458	2.270	1.832	2.723	2.017	1.270	-1.143
OC	FOPE1	48.308	-105.102	0.003	1.000	1.460	1.508	1.752	1.488	0.668	0.172
OC	FRRE1	39.706	-79.012	-0.048	0.005	2.494	1.589	2.055	1.946	0.333	-2.448
OC	GAMO1	46.826	-111.711	-0.004	0.807	1.718	1.647	2.216	1.680	1.621	-0.223
OC	GICL1	33.22	-108.235	-0.040	0.023	1.695	0.944	1.686	1.319	1.313	-2.995
OC	GLAC1	48.511	-113.997	-0.084	0.092	4.197	2.608	3.730	3.403	1.591	-2.458
OC	GRBA1	39.005	-114.216	-0.024	0.153	1.291	0.830	1.112	1.061	0.344	-2.288
OC	GRCA3	36.066	-112.154	-0.018	0.119	1.180	0.838	1.162	1.009	0.549	-1.780
OC	GRGU1	44.308	-71.218	-0.029	0.031	2.097	1.539	1.821	1.803	0.318	-1.629
OC	GRII1	43.937	-91.405	-0.049	0.005	2.518	1.585	2.041	1.978	0.393	-2.481
OC	GRSA1	37.725	-105.519	-0.002	0.846	1.210	1.163	1.235	1.187	0.289	-0.209

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OC	GRSM1	35.633	-83.942	-0.077	0.000	3.337	1.881	2.672	2.609	0.637	-2.937
OC	GUMO1	31.833	-104.809	-0.011	0.136	1.173	0.970	1.149	1.071	0.232	-0.998
OC	HAVO1	19.431	-155.258	-0.013	0.248	0.445	0.199	0.357	0.316	0.170	-4.106
OC	HECA1	44.97	-116.844	-0.003	0.916	2.762	2.701	2.573	2.730	0.859	-0.119
OC	HEGL1	36.614	-92.922	-0.064	0.002	3.317	2.106	2.793	2.680	0.545	-2.380
OC	HOOV1	38.088	-119.177	0.039	0.344	1.179	1.914	1.978	1.585	1.240	2.442
OC	IKBA1	34.34	-111.683	-0.020	0.069	1.327	0.955	1.184	1.141	0.293	-1.716
OC	ISLE1	47.46	-88.149	-0.018	0.069	1.949	1.612	1.750	1.781	0.281	-0.995
OC	JARB1	41.893	-115.426	0.013	0.516	1.494	1.738	1.706	1.616	0.728	0.796
OC	JARI1	37.627	-79.512	-0.067	0.000	3.795	2.517	3.116	3.122	0.523	-2.154
OC	JOSH1	34.07	-116.389	-0.041	0.000	1.855	1.071	1.481	1.463	0.359	-2.819
OC	KAIS1	37.221	-119.155	0.010	0.791	1.897	2.094	2.335	2.006	0.816	0.517
OC	KALM1	42.552	-124.059	-0.026	0.270	2.233	1.746	2.529	1.989	1.557	-1.288
OC	LABE1	41.712	-121.507	-0.002	0.897	2.229	2.196	3.561	2.212	3.989	-0.078
OC	LASU2	40.693	-92.006	-0.049	0.042	2.582	1.657	2.127	1.998	0.369	-2.439
OC	LAVO1	40.54	-121.577	0.008	0.897	1.980	2.132	3.028	2.056	2.621	0.389
OC	LIGO1	35.972	-81.933	-0.051	0.000	3.085	2.111	2.578	2.598	0.392	-1.972
OC	LOST1	48.642	-102.402	-0.021	0.243	1.937	1.534	1.758	1.736	0.428	-1.220
OC	MACA1	37.132	-86.148	-0.078	0.000	3.548	2.062	2.867	2.805	0.575	-2.789
OC	MAVI1	41.331	-70.785	-0.031	0.026	2.055	1.474	1.768	1.719	0.356	-1.780
OC	MEAD1	36.019	-114.068	-0.018	0.118	1.065	0.720	0.925	0.865	0.185	-2.099
OC	MELA1	48.487	-104.476	-0.003	0.795	1.562	1.499	1.606	1.531	0.382	-0.216
OC	MEVE1	37.198	-108.491	-0.023	0.052	1.151	0.719	1.012	0.935	0.294	-2.430
OC	MING1	36.972	-90.143	-0.116	0.003	4.532	2.326	3.385	3.196	0.755	-3.632
OC	MOHO1	45.289	-121.784	-0.025	0.270	1.787	1.317	1.583	1.552	0.464	-1.592
OC	MOMO1	41.821	-73.297	-0.064	0.005	2.835	1.623	2.201	2.165	0.495	-2.947
OC	MONT1	47.122	-113.154	-0.013	0.506	2.515	2.271	3.445	2.387	2.550	-0.540
OC	MOOS1	45.126	-67.266	-0.027	0.006	1.919	1.402	1.647	1.661	0.281	-1.639
OC	MORA1	46.758	-122.124	-0.034	0.080	2.508	1.864	2.100	2.186	0.495	-1.549
OC	MOZI1	40.538	-106.677	-0.003	0.916	1.135	1.078	1.202	1.105	0.355	-0.269
OC	NEBR1	41.889	-100.339	-0.026	0.249	1.858	1.355	1.641	1.567	0.315	-1.690
OC	NOAB1	44.745	-109.382	-0.002	0.972	1.290	1.261	1.637	1.274	0.730	-0.119
OC	NOCA1	48.732	-121.065	-0.021	0.330	1.566	1.166	1.763	1.366	0.876	-1.541
OC	NOCH1	45.65	-106.557	-0.010	0.621	1.877	1.682	2.100	1.764	1.321	-0.584
OC	OKEF1	30.74	-82.128	-0.086	0.003	3.804	2.166	3.216	2.985	1.167	-2.890
OC	OLYM1	48.007	-122.973	-0.044	0.025	1.833	1.006	1.436	1.376	0.364	-3.165

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OC	ORPI1	31.951	-112.802	-0.016	0.187	0.881	0.587	0.796	0.711	0.231	-2.181
OC	PASA1	48.388	-119.927	-0.019	0.463	2.115	1.759	2.585	1.928	1.845	-0.970
OC	PEFO1	35.078	-109.769	-0.018	0.299	1.272	0.937	1.169	1.105	0.340	-1.595
OC	PENO1	44.948	-68.648	-0.024	0.171	2.726	2.269	2.436	2.426	0.217	-0.991
OC	PINN1	36.483	-121.157	-0.023	0.364	1.990	1.548	1.833	1.769	0.477	-1.315
OC	PITT1	40.465	-79.961	-0.082	0.009	4.458	2.898	3.485	3.514	0.615	-2.335
OC	PMRF1	44.528	-72.869	-0.036	0.002	2.273	1.585	1.871	1.911	0.308	-1.894
OC	PORE1	38.122	-122.909	-0.020	0.080	1.497	1.120	1.359	1.309	0.373	-1.517
OC	PRIS1	46.696	-68.033	-0.056	0.000	2.447	1.389	2.103	1.890	0.437	-2.946
OC	QUCI1	39.943	-81.338	-0.034	0.003	2.550	1.906	2.233	2.211	0.299	-1.535
OC	QURE1	42.299	-72.335	-0.083	0.000	2.913	1.329	2.323	2.246	0.439	-3.712
OC	QUVA1	33.294	-111.286	-0.034	0.006	1.279	0.632	1.054	1.006	0.237	-3.384
OC	RAFA1	34.734	-120.007	-0.040	0.032	1.975	1.210	1.665	1.593	0.580	-2.528
OC	REDW1	41.561	-124.084	-0.035	0.080	1.623	0.958	1.493	1.291	0.744	-2.710
OC	ROMA1	32.941	-79.657	-0.062	0.001	3.450	2.263	2.913	2.856	0.524	-2.188
OC	ROMO1	40.278	-105.546	-0.010	0.516	1.431	1.233	1.456	1.332	0.365	-0.784
OC	SACR1	33.46	-104.404	-0.007	0.463	1.313	1.177	1.287	1.242	0.188	-0.574
OC	SAGA1	34.297	-118.028	-0.036	0.012	1.998	1.309	1.565	1.617	0.366	-2.242
OC	SAGO1	34.194	-116.913	-0.062	0.000	2.398	1.219	1.836	1.808	0.446	-3.433
OC	SAGU1	32.175	-110.737	-0.023	0.016	1.192	0.749	1.039	0.959	0.303	-2.431
OC	SAMA1	30.093	-84.161	-0.076	0.000	3.425	1.982	3.016	2.665	0.932	-2.850
OC	SAPE1	36.014	-106.845	-0.006	0.463	1.029	0.916	1.007	0.970	0.172	-0.615
OC	SAWE1	32.249	-111.218	-0.020	0.063	1.211	0.840	1.078	1.006	0.221	-1.941
OC	SAWT1	44.171	-114.927	0.025	0.700	2.453	2.936	3.551	2.707	2.148	0.938
OC	SENE1	46.289	-85.95	-0.050	0.004	2.465	1.521	1.938	1.993	0.447	-2.494
OC	SEQU1	36.489	-118.829	-0.037	0.218	3.861	3.151	3.876	3.506	1.216	-1.066
OC	SHEN1	38.523	-78.435	-0.035	0.027	2.612	1.941	2.242	2.277	0.405	-1.550
OC	SHMI1	37.304	-107.484	-0.004	0.882	1.135	1.055	1.141	1.084	0.308	-0.390
OC	SHRO1	35.394	-82.774	-0.058	0.005	2.656	1.560	2.232	2.137	0.482	-2.698
OC	SIAN1	34.091	-110.942	-0.053	0.019	1.772	0.773	1.404	1.378	0.370	-3.818
OC	SIME1	55.326	-160.506	-0.009	0.211	0.505	0.331	0.457	0.409	0.190	-2.233
OC	SIPS1	34.343	-87.339	-0.098	0.000	4.170	2.305	3.232	3.238	0.723	-3.032
OC	SNPA1	47.422	-121.426	-0.032	0.194	2.222	1.619	1.954	1.920	0.554	-1.653
OC	STAR1	45.225	-118.513	-0.098	0.032	3.259	1.393	2.638	2.326	1.012	-4.223
OC	SULA1	45.86	-114	-0.023	0.552	2.257	1.817	3.378	2.026	4.067	-1.145
OC	SWAN1	35.451	-76.207	-0.036	0.100	2.575	1.899	2.289	2.219	0.579	-1.603

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OC	SYCA1	35.141	-111.969	-0.028	0.181	1.847	1.321	1.695	1.625	0.350	-1.703
OC	TALL1	38.434	-96.56	-0.041	0.118	2.830	2.059	2.499	2.384	0.442	-1.701
OC	THBA1	44.663	-105.287	0.005	0.805	1.514	1.600	1.860	1.568	0.737	0.288
OC	THRO1	46.895	-103.378	0.002	0.795	1.552	1.596	1.572	1.574	0.340	0.149
OC	THSI1	44.291	-122.043	0.001	0.948	2.101	2.129	2.275	2.115	0.856	0.071
OC	TONT1	33.655	-111.107	-0.031	0.016	1.507	0.913	1.231	1.210	0.315	-2.584
OC	TRCR1	62.315	-150.316	-0.012	0.570	0.976	0.751	0.999	0.851	0.479	-1.391
OC	TRIN1	40.786	-122.805	-0.048	0.528	2.990	2.072	4.617	2.579	7.294	-1.874
OC	ULBE1	47.582	-108.72	0.000	1.000	1.547	1.552	1.684	1.549	0.535	0.014
OC	UPBU1	35.826	-93.203	-0.064	0.001	3.275	2.055	2.781	2.665	0.565	-2.411
OC	VIIS1	18.336	-64.796	0.000	1.000	0.318	0.323	0.351	0.320	0.130	0.069
OC	VILA1	40.969	-95.045	-0.043	0.026	2.562	1.739	2.049	2.085	0.339	-2.077
OC	VOYA2	48.413	-92.829	-0.015	0.475	1.969	1.691	1.805	1.830	0.349	-0.799
OC	WEMI1	37.659	-107.8	-0.004	0.559	1.119	1.040	1.152	1.079	0.353	-0.387
OC	WHIT1	33.469	-105.535	-0.013	0.088	1.199	0.943	1.132	1.058	0.248	-1.275
OC	WHPA1	46.624	-121.388	-0.004	0.795	1.197	1.130	1.295	1.164	0.536	-0.304
OC	WHPE1	36.585	-105.452	-0.014	0.048	1.050	0.779	0.913	0.908	0.181	-1.571
OC	WHRI1	39.154	-106.821	-0.014	0.243	1.073	0.808	0.997	0.941	0.336	-1.481
OC	WICA1	43.558	-103.484	0.003	0.948	1.686	1.736	1.730	1.711	0.431	0.154
OC	WIMO1	34.732	-98.713	-0.058	0.005	2.617	1.516	2.133	2.038	0.444	-2.844
OC	YELL2	44.565	-110.4	0.017	0.559	1.641	1.969	2.011	1.805	0.827	0.957
OC	YOSE1	37.713	-119.706	-0.037	0.399	3.057	2.347	3.834	2.702	3.897	-1.383
OC	ZICA1	37.198	-113.151	-0.018	0.217	1.217	0.873	1.036	1.018	0.242	-1.776
EC	ACAD1	44.377	-68.261	-0.013	0.000	0.402	0.149	0.313	0.275	0.091	-4.847
EC	AGTI1	33.464	-116.971	-0.030	0.000	0.687	0.123	0.505	0.405	0.188	-7.330
EC	BADL1	43.743	-101.941	-0.004	0.218	0.248	0.167	0.223	0.208	0.073	-2.050
EC	BALD1	34.058	-109.441	-0.006	0.023	0.242	0.120	0.196	0.178	0.064	-3.604
EC	BAND1	35.78	-106.266	-0.006	0.002	0.271	0.153	0.217	0.212	0.051	-2.915
EC	BIBE1	29.303	-103.178	-0.004	0.009	0.259	0.179	0.232	0.219	0.053	-1.940
EC	BLIS1	38.976	-120.103	-0.006	0.046	0.329	0.213	0.270	0.274	0.062	-2.225
EC	BOAP1	33.869	-106.852	-0.010	0.000	0.409	0.210	0.322	0.309	0.088	-3.393
EC	BOND1	40.052	-88.373	-0.020	0.000	0.827	0.448	0.615	0.628	0.139	-3.177
EC	BOWA1	47.947	-91.495	-0.007	0.001	0.341	0.204	0.279	0.272	0.068	-2.645
EC	BRCA1	37.618	-112.174	-0.005	0.162	0.240	0.139	0.190	0.189	0.066	-2.820
EC	BRID1	42.975	-109.758	-0.004	0.173	0.187	0.113	0.186	0.150	0.093	-2.614
EC	BRIG1	39.465	-74.449	-0.027	0.000	0.813	0.306	0.618	0.546	0.172	-4.878

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EC	BRMA1	44.107	-70.729	-0.023	0.003	0.601	0.167	0.452	0.418	0.119	-5.457
EC	CABA1	43.833	-70.064	-0.022	0.000	0.836	0.426	0.612	0.620	0.139	-3.483
EC	CABI1	47.955	-115.671	0.003	0.506	0.240	0.301	0.275	0.272	0.073	1.185
EC	CACO1	41.976	-70.024	-0.020	0.000	0.590	0.214	0.410	0.392	0.121	-5.045
EC	CACR1	34.454	-94.143	-0.014	0.000	0.556	0.290	0.441	0.416	0.100	-3.370
EC	CANY1	38.459	-109.821	-0.004	0.003	0.183	0.102	0.152	0.142	0.036	-2.981
EC	CAPI1	38.302	-111.293	-0.004	0.014	0.187	0.110	0.152	0.144	0.044	-2.790
EC	CEBL1	38.77	-99.763	-0.011	0.002	0.399	0.182	0.276	0.273	0.070	-4.161
EC	CHAS1	28.748	-82.555	-0.018	0.003	0.888	0.547	0.757	0.717	0.169	-2.497
EC	CHIR1	32.009	-109.389	-0.003	0.027	0.177	0.116	0.150	0.146	0.038	-2.195
EC	COHU1	34.785	-84.627	-0.019	0.003	0.646	0.282	0.476	0.444	0.138	-4.310
EC	CORI1	45.664	-121.001	-0.015	0.002	0.654	0.373	0.531	0.513	0.115	-2.874
EC	CRLA1	42.896	-122.136	-0.005	0.248	0.321	0.217	0.400	0.267	0.317	-2.062
EC	CRMO1	43.46	-113.555	-0.002	0.506	0.194	0.152	0.202	0.172	0.093	-1.273
EC	DENA1	63.723	-148.967	-0.004	0.014	0.153	0.072	0.134	0.113	0.089	-3.765
EC	DOME1	35.728	-118.138	-0.012	0.013	0.425	0.190	0.340	0.301	0.110	-4.118
EC	DOSO1	39.105	-79.426	-0.016	0.000	0.519	0.219	0.415	0.369	0.124	-4.284
EC	EGBE1	44.231	-79.783	-0.017	0.002	0.761	0.445	0.559	0.553	0.096	-3.012
EC	EVER1	25.391	-80.681	-0.019	0.001	0.539	0.171	0.400	0.346	0.134	-5.602
EC	FLAT1	47.773	-114.269	-0.001	0.742	0.261	0.246	0.273	0.252	0.100	-0.312
EC	FOPE1	48.308	-105.102	0.001	0.680	0.224	0.240	0.235	0.234	0.057	0.366
EC	FRRE1	39.706	-79.012	-0.018	0.000	0.665	0.321	0.497	0.457	0.114	-3.955
EC	GAMO1	46.826	-111.711	0.000	0.807	0.174	0.167	0.231	0.171	0.154	-0.205
EC	GICL1	33.22	-108.235	-0.011	0.006	0.300	0.090	0.257	0.195	0.257	-5.652
EC	GLAC1	48.511	-113.997	-0.018	0.005	0.764	0.414	0.570	0.589	0.157	-3.131
EC	GRBA1	39.005	-114.216	-0.006	0.004	0.201	0.083	0.161	0.142	0.062	-4.403
EC	GRCA3	36.066	-112.154	-0.006	0.016	0.212	0.099	0.187	0.155	0.118	-3.812
EC	GRGU1	44.308	-71.218	-0.011	0.000	0.380	0.163	0.293	0.265	0.088	-4.299
EC	GRR11	43.937	-91.405	-0.014	0.000	0.577	0.308	0.437	0.421	0.094	-3.356
EC	GRSA1	37.725	-105.519	-0.004	0.006	0.210	0.141	0.185	0.176	0.044	-2.059
EC	GRSM1	35.633	-83.942	-0.021	0.000	0.639	0.246	0.490	0.442	0.150	-4.681
EC	GUMO1	31.833	-104.809	-0.002	0.330	0.205	0.168	0.186	0.187	0.033	-1.061
EC	HAVO1	19.431	-155.258	-0.003	0.006	0.110	0.047	0.081	0.077	0.027	-4.347
EC	HECA1	44.97	-116.844	-0.005	0.310	0.340	0.248	0.303	0.291	0.092	-1.662
EC	HEGL1	36.614	-92.922	-0.011	0.000	0.566	0.358	0.485	0.457	0.098	-2.396
EC	HOOV1	38.088	-119.177	0.000	0.970	0.195	0.200	0.220	0.198	0.114	0.139

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EC	IKBA1	34.34	-111.683	-0.007	0.002	0.295	0.154	0.216	0.224	0.057	-3.314
EC	ISLE1	47.46	-88.149	-0.010	0.000	0.373	0.179	0.307	0.276	0.079	-3.688
EC	JARB1	41.893	-115.426	-0.001	0.746	0.177	0.152	0.175	0.165	0.062	-0.815
EC	JARI1	37.627	-79.512	-0.022	0.000	0.998	0.584	0.769	0.780	0.168	-2.795
EC	JOSH1	34.07	-116.389	-0.018	0.000	0.448	0.113	0.319	0.281	0.116	-6.279
EC	KAIS1	37.221	-119.155	-0.006	0.185	0.336	0.227	0.278	0.276	0.082	-2.072
EC	KALM1	42.552	-124.059	-0.007	0.105	0.376	0.238	0.400	0.307	0.382	-2.365
EC	LABE1	41.712	-121.507	-0.003	0.516	0.311	0.247	0.370	0.279	0.338	-1.213
EC	LASU2	40.693	-92.006	-0.015	0.015	0.646	0.354	0.476	0.462	0.112	-3.330
EC	LAVO1	40.54	-121.577	-0.004	0.364	0.330	0.258	0.373	0.294	0.265	-1.290
EC	LIGO1	35.972	-81.933	-0.020	0.000	0.685	0.310	0.515	0.497	0.145	-3.971
EC	LOST1	48.642	-102.402	0.003	0.330	0.280	0.344	0.319	0.312	0.071	1.085
EC	MACA1	37.132	-86.148	-0.020	0.000	0.731	0.346	0.583	0.538	0.152	-3.761
EC	MAVI1	41.331	-70.785	-0.018	0.000	0.539	0.199	0.370	0.342	0.120	-5.229
EC	MEAD1	36.019	-114.068	-0.006	0.000	0.209	0.086	0.151	0.138	0.052	-4.708
EC	MELA1	48.487	-104.476	0.001	0.604	0.235	0.245	0.250	0.240	0.058	0.219
EC	MEVE1	37.198	-108.491	-0.006	0.001	0.183	0.075	0.150	0.129	0.047	-4.423
EC	MING1	36.972	-90.143	-0.025	0.000	0.936	0.457	0.666	0.646	0.163	-3.908
EC	MOHO1	45.289	-121.784	-0.005	0.052	0.263	0.164	0.217	0.214	0.058	-2.441
EC	MOMO1	41.821	-73.297	-0.024	0.000	0.690	0.240	0.486	0.441	0.145	-5.375
EC	MONT1	47.122	-113.154	-0.001	0.753	0.299	0.275	0.340	0.286	0.161	-0.442
EC	MOOS1	45.126	-67.266	-0.016	0.000	0.424	0.124	0.300	0.274	0.100	-5.760
EC	MORA1	46.758	-122.124	-0.017	0.000	0.552	0.228	0.431	0.390	0.124	-4.363
EC	MOZI1	40.538	-106.677	-0.001	0.753	0.158	0.142	0.144	0.150	0.042	-0.569
EC	NEBR1	41.889	-100.339	-0.008	0.032	0.310	0.157	0.249	0.221	0.066	-3.624
EC	NOAB1	44.745	-109.382	-0.003	0.248	0.169	0.115	0.169	0.141	0.071	-2.012
EC	NOCA1	48.732	-121.065	-0.005	0.080	0.263	0.160	0.217	0.211	0.083	-2.570
EC	NOCH1	45.65	-106.557	-0.004	0.249	0.232	0.151	0.235	0.185	0.117	-2.299
EC	OKEF1	30.74	-82.128	-0.018	0.000	0.738	0.404	0.578	0.571	0.140	-3.081
EC	OLYM1	48.007	-122.973	-0.009	0.011	0.314	0.148	0.226	0.222	0.062	-3.930
EC	ORPI1	31.951	-112.802	-0.006	0.005	0.238	0.127	0.174	0.174	0.044	-3.372
EC	PASA1	48.388	-119.927	-0.004	0.421	0.248	0.166	0.281	0.205	0.204	-2.097
EC	PEFO1	35.078	-109.769	-0.009	0.000	0.408	0.230	0.308	0.319	0.072	-2.944
EC	PENO1	44.948	-68.648	-0.016	0.043	0.776	0.477	0.582	0.579	0.099	-2.711
EC	PINN1	36.483	-121.157	-0.015	0.005	0.548	0.271	0.412	0.409	0.123	-3.567
EC	PITT1	40.465	-79.961	-0.049	0.000	1.770	0.841	1.327	1.208	0.348	-4.047



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EC	PMRF1	44.528	-72.869	-0.013	0.001	0.458	0.213	0.375	0.329	0.103	-3.915
EC	PORE1	38.122	-122.909	-0.015	0.000	0.396	0.105	0.261	0.250	0.102	-6.124
EC	PRIS1	46.696	-68.033	-0.018	0.000	0.618	0.273	0.466	0.436	0.119	-4.159
EC	QUCI1	39.943	-81.338	-0.014	0.000	0.750	0.480	0.629	0.608	0.103	-2.337
EC	QURE1	42.299	-72.335	-0.025	0.003	0.751	0.281	0.561	0.553	0.136	-4.479
EC	QUVA1	33.294	-111.286	-0.015	0.000	0.371	0.094	0.278	0.255	0.088	-5.726
EC	RAFA1	34.734	-120.007	-0.013	0.001	0.344	0.097	0.253	0.221	0.099	-5.878
EC	REDW1	41.561	-124.084	-0.006	0.038	0.214	0.095	0.159	0.155	0.067	-4.058
EC	ROMA1	32.941	-79.657	-0.017	0.000	0.676	0.345	0.570	0.511	0.164	-3.417
EC	ROMO1	40.278	-105.546	-0.005	0.044	0.268	0.170	0.221	0.219	0.061	-2.376
EC	SACR1	33.46	-104.404	-0.002	0.345	0.269	0.232	0.262	0.250	0.046	-0.783
EC	SAGA1	34.297	-118.028	-0.018	0.000	0.475	0.125	0.315	0.282	0.126	-6.530
EC	SAGO1	34.194	-116.913	-0.026	0.000	0.582	0.095	0.414	0.339	0.170	-7.573
EC	SAGU1	32.175	-110.737	-0.013	0.000	0.355	0.111	0.266	0.226	0.085	-5.659
EC	SAMA1	30.093	-84.161	-0.025	0.000	0.763	0.295	0.562	0.517	0.166	-4.761
EC	SAPE1	36.014	-106.845	-0.002	0.141	0.153	0.112	0.136	0.131	0.032	-1.672
EC	SAWE1	32.249	-111.218	-0.011	0.004	0.424	0.216	0.325	0.309	0.074	-3.541
EC	SAWT1	44.171	-114.927	0.002	0.753	0.318	0.356	0.385	0.338	0.193	0.600
EC	SENE1	46.289	-85.95	-0.011	0.000	0.431	0.217	0.361	0.324	0.096	-3.475
EC	SEQU1	36.489	-118.829	-0.019	0.004	0.683	0.315	0.541	0.499	0.173	-3.886
EC	SHEN1	38.523	-78.435	-0.021	0.000	0.602	0.207	0.455	0.405	0.127	-5.137
EC	SHMI1	37.304	-107.484	-0.003	0.255	0.178	0.121	0.159	0.142	0.047	-2.085
EC	SHRO1	35.394	-82.774	-0.012	0.016	0.411	0.181	0.348	0.302	0.116	-4.011
EC	SIAN1	34.091	-110.942	-0.010	0.006	0.374	0.191	0.284	0.302	0.069	-3.183
EC	SIME1	55.326	-160.506	-0.008	0.012	0.274	0.117	0.210	0.188	0.070	-4.404
EC	SIPS1	34.343	-87.339	-0.024	0.000	0.846	0.386	0.639	0.616	0.187	-3.934
EC	SNPA1	47.422	-121.426	-0.015	0.000	0.476	0.196	0.352	0.336	0.111	-4.397
EC	STAR1	45.225	-118.513	-0.019	0.009	0.483	0.119	0.364	0.301	0.172	-6.370
EC	SULA1	45.86	-114	-0.003	0.382	0.247	0.182	0.343	0.213	0.377	-1.592
EC	SWAN1	35.451	-76.207	-0.014	0.005	0.512	0.243	0.397	0.370	0.109	-3.826
EC	SYCA1	35.141	-111.969	-0.006	0.299	0.479	0.369	0.432	0.433	0.080	-1.345
EC	TALL1	38.434	-96.56	-0.011	0.039	0.552	0.334	0.476	0.426	0.107	-2.700
EC	THBA1	44.663	-105.287	-0.006	0.054	0.326	0.212	0.264	0.254	0.064	-2.383
EC	THRO1	46.895	-103.378	-0.005	0.038	0.314	0.217	0.267	0.266	0.055	-1.924
EC	THSI1	44.291	-122.043	-0.005	0.105	0.303	0.210	0.297	0.257	0.129	-1.915
EC	TONT1	33.655	-111.107	-0.008	0.002	0.309	0.150	0.246	0.229	0.069	-3.641

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EC	TRCR1	62.315	-150.316	-0.003	0.045	0.132	0.070	0.115	0.098	0.049	-3.304
EC	TRIN1	40.786	-122.805	-0.009	0.280	0.423	0.247	0.454	0.345	0.497	-2.683
EC	ULBE1	47.582	-108.72	-0.001	0.746	0.200	0.177	0.200	0.189	0.055	-0.635
EC	UPBU1	35.826	-93.203	-0.012	0.000	0.536	0.316	0.445	0.426	0.101	-2.719
EC	VIIS1	18.336	-64.796	-0.007	0.002	0.171	0.044	0.134	0.111	0.057	-6.015
EC	VILA1	40.969	-95.045	-0.017	0.000	0.659	0.332	0.499	0.469	0.114	-3.667
EC	VOYA2	48.413	-92.829	-0.007	0.000	0.343	0.208	0.286	0.276	0.056	-2.585
EC	WEMI1	37.659	-107.8	-0.007	0.001	0.256	0.118	0.191	0.187	0.058	-3.876
EC	WHIT1	33.469	-105.535	-0.003	0.063	0.204	0.139	0.163	0.168	0.036	-2.027
EC	WHPA1	46.624	-121.388	-0.003	0.173	0.189	0.131	0.166	0.160	0.060	-1.890
EC	WHPE1	36.585	-105.452	-0.003	0.161	0.178	0.127	0.179	0.152	0.132	-1.770
EC	WHRI1	39.154	-106.821	-0.005	0.019	0.175	0.089	0.146	0.132	0.045	-3.412
EC	WICA1	43.558	-103.484	-0.003	0.194	0.266	0.202	0.227	0.234	0.058	-1.438
EC	WIMO1	34.732	-98.713	-0.010	0.002	0.493	0.296	0.405	0.390	0.093	-2.667
EC	YELL2	44.565	-110.4	-0.001	0.697	0.232	0.205	0.218	0.218	0.065	-0.649
EC	YOSE1	37.713	-119.706	-0.012	0.023	0.485	0.252	0.449	0.368	0.314	-3.332
EC	ZICA1	37.198	-113.151	-0.007	0.058	0.237	0.104	0.171	0.160	0.054	-4.382
Fine Dust	ACAD1	44.377	-68.261	-0.018	0.000	0.571	0.222	0.426	0.396	0.138	-4.625
Fine Dust	AGTI1	33.464	-116.971	-0.040	0.046	1.776	1.020	1.458	1.378	0.419	-2.884
Fine Dust	BADL1	43.743	-101.941	-0.020	0.173	1.575	1.203	1.412	1.389	0.277	-1.413
Fine Dust	BALD1	34.058	-109.441	-0.039	0.064	2.087	1.345	1.779	1.697	0.551	-2.302
Fine Dust	BAND1	35.78	-106.266	-0.016	0.559	1.835	1.526	1.719	1.680	0.579	-0.970
Fine Dust	BIBE1	29.303	-103.178	-0.036	0.218	3.280	2.605	3.119	2.943	0.858	-1.208
Fine Dust	BLIS1	38.976	-120.103	-0.015	0.421	1.229	0.950	1.062	1.097	0.256	-1.342
Fine Dust	BOAP1	33.869	-106.852	-0.032	0.559	2.763	2.151	2.505	2.457	0.909	-1.311
Fine Dust	BOND1	40.052	-88.373	-0.037	0.001	1.465	0.767	1.084	1.098	0.267	-3.350
Fine Dust	BOWA1	47.947	-91.495	-0.027	0.000	0.899	0.378	0.651	0.638	0.263	-4.299
Fine Dust	BRCA1	37.618	-112.174	-0.012	0.475	1.541	1.315	1.508	1.428	0.443	-0.833
Fine Dust	BRID1	42.975	-109.758	-0.022	0.023	1.332	0.907	1.127	1.120	0.269	-1.999
Fine Dust	BRIG1	39.465	-74.449	-0.034	0.000	1.102	0.454	0.794	0.778	0.279	-4.380
Fine Dust	BRMA1	44.107	-70.729	-0.028	0.006	0.738	0.201	0.540	0.512	0.199	-5.519
Fine Dust	CABA1	43.833	-70.064	-0.026	0.000	0.710	0.220	0.506	0.452	0.228	-5.709
Fine Dust	CABI1	47.955	-115.671	-0.035	0.033	1.473	0.811	1.213	1.125	0.307	-3.100
Fine Dust	CACO1	41.976	-70.024	-0.026	0.000	0.794	0.304	0.555	0.536	0.199	-4.812
Fine Dust	CACR1	34.454	-94.143	0.012	0.649	1.697	1.916	1.874	1.812	0.657	0.637
Fine Dust	CANY1	38.459	-109.821	-0.012	0.559	1.753	1.533	1.732	1.643	0.533	-0.706

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Fine Dust	CAPI1	38.302	-111.293	-0.046	0.211	2.097	1.217	1.775	1.611	0.529	-2.876
Fine Dust	CEBL1	38.77	-99.763	-0.004	0.805	2.018	1.946	2.097	1.976	0.582	-0.192
Fine Dust	CHAS1	28.748	-82.555	0.031	0.240	1.635	2.215	1.943	1.956	0.463	1.560
Fine Dust	CHIR1	32.009	-109.389	-0.042	0.105	3.083	2.285	2.621	2.684	0.548	-1.564
Fine Dust	COHU1	34.785	-84.627	-0.046	0.009	1.610	0.738	1.116	1.128	0.373	-4.071
Fine Dust	CORI1	45.664	-121.001	0.006	0.700	2.664	2.783	2.894	2.727	1.019	0.229
Fine Dust	CRLA1	42.896	-122.136	-0.029	0.006	1.287	0.740	0.911	0.985	0.229	-2.928
Fine Dust	CRMO1	43.46	-113.555	-0.020	0.069	1.586	1.212	1.548	1.399	0.627	-1.407
Fine Dust	DENA1	63.723	-148.967	-0.004	0.436	0.366	0.299	0.356	0.333	0.124	-1.052
Fine Dust	DOME1	35.728	-118.138	0.013	0.463	2.078	2.323	2.253	2.207	0.454	0.585
Fine Dust	DOSO1	39.105	-79.426	-0.031	0.001	1.171	0.581	0.856	0.876	0.292	-3.547
Fine Dust	EGBE1	44.231	-79.783	-0.047	0.000	1.154	0.260	0.652	0.566	0.215	-8.311
Fine Dust	EVER1	25.391	-80.681	0.017	0.552	3.063	3.381	3.358	3.230	1.203	0.518
Fine Dust	FLAT1	47.773	-114.269	-0.011	0.249	1.092	0.875	1.013	0.967	0.196	-1.178
Fine Dust	FOPE1	48.308	-105.102	-0.007	0.458	1.452	1.327	1.448	1.380	0.323	-0.478
Fine Dust	FRRE1	39.706	-79.012	-0.044	0.000	1.218	0.375	0.780	0.708	0.330	-6.266
Fine Dust	GAMO1	46.826	-111.711	-0.019	0.017	1.006	0.647	0.905	0.827	0.208	-2.292
Fine Dust	GICL1	33.22	-108.235	-0.048	0.060	2.479	1.560	1.996	2.019	0.594	-2.396
Fine Dust	GLAC1	48.511	-113.997	-0.022	0.243	2.099	1.683	1.864	1.891	0.388	-1.157
Fine Dust	GRBA1	39.005	-114.216	-0.005	0.697	1.690	1.591	1.565	1.640	0.368	-0.319
Fine Dust	GRCA3	36.066	-112.154	0.013	0.475	1.341	1.598	1.531	1.470	0.450	0.919
Fine Dust	GRGU1	44.308	-71.218	-0.025	0.000	0.614	0.148	0.450	0.369	0.175	-6.666
Fine Dust	GRR11	43.937	-91.405	-0.028	0.003	1.192	0.664	0.915	0.886	0.246	-3.139
Fine Dust	GRSA1	37.725	-105.519	-0.070	0.032	3.501	2.174	2.726	2.838	0.807	-2.462
Fine Dust	GRSM1	35.633	-83.942	-0.029	0.009	1.322	0.772	1.016	1.047	0.292	-2.769
Fine Dust	GUMO1	31.833	-104.809	0.035	0.330	3.310	3.975	4.343	3.642	1.538	0.960
Fine Dust	HAVO1	19.431	-155.258	-0.012	0.019	0.509	0.275	0.498	0.386	0.318	-3.189
Fine Dust	HECA1	44.97	-116.844	-0.026	0.028	1.405	0.913	1.257	1.146	0.370	-2.262
Fine Dust	HEGL1	36.614	-92.922	-0.032	0.115	1.885	1.277	1.493	1.565	0.420	-2.044
Fine Dust	HOOV1	38.088	-119.177	-0.021	0.211	1.575	1.176	1.356	1.354	0.300	-1.552
Fine Dust	IKBA1	34.34	-111.683	-0.036	0.243	3.057	2.377	2.687	2.717	0.863	-1.317
Fine Dust	ISLE1	47.46	-88.149	-0.017	0.003	0.676	0.348	0.518	0.512	0.152	-3.373
Fine Dust	JARB1	41.893	-115.426	-0.024	0.299	3.002	2.539	2.763	2.771	0.639	-0.879
Fine Dust	JARI1	37.627	-79.512	-0.039	0.000	1.246	0.508	0.844	0.857	0.272	-4.530
Fine Dust	JOSH1	34.07	-116.389	-0.016	0.399	2.206	1.911	2.099	2.059	0.458	-0.753
Fine Dust	KAIS1	37.221	-119.155	-0.008	0.520	1.538	1.387	1.445	1.454	0.270	-0.548

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Fine Dust	KALM1	42.552	-124.059	-0.003	0.604	0.518	0.453	0.494	0.486	0.104	-0.706
Fine Dust	LABEL	41.712	-121.507	-0.014	0.038	1.126	0.855	1.023	0.990	0.185	-1.442
Fine Dust	LASU2	40.693	-92.006	0.006	0.805	1.188	1.300	1.273	1.259	0.234	0.470
Fine Dust	LAVO1	40.54	-121.577	-0.029	0.027	1.383	0.835	1.131	1.109	0.328	-2.604
Fine Dust	LIGO1	35.972	-81.933	-0.026	0.032	1.174	0.681	0.909	0.928	0.297	-2.794
Fine Dust	LOST1	48.642	-102.402	0.012	0.436	1.331	1.556	1.542	1.444	0.435	0.819
Fine Dust	MACA1	37.132	-86.148	-0.039	0.005	1.417	0.682	1.026	1.049	0.328	-3.689
Fine Dust	MAVI1	41.331	-70.785	-0.024	0.000	0.818	0.355	0.580	0.550	0.181	-4.430
Fine Dust	MEAD1	36.019	-114.068	-0.006	0.564	2.854	2.745	2.597	2.791	0.618	-0.206
Fine Dust	MELA1	48.487	-104.476	0.027	0.153	1.356	1.868	1.721	1.612	0.487	1.670
Fine Dust	MEVE1	37.198	-108.491	-0.071	0.019	2.639	1.292	2.202	1.965	1.074	-3.608
Fine Dust	MING1	36.972	-90.143	-0.037	0.221	2.698	1.991	2.573	2.326	0.835	-1.601
Fine Dust	MOHO1	45.289	-121.784	-0.001	0.897	0.775	0.759	0.828	0.767	0.320	-0.108
Fine Dust	MOMO1	41.821	-73.297	-0.035	0.000	0.969	0.300	0.618	0.599	0.235	-5.880
Fine Dust	MONT1	47.122	-113.154	-0.015	0.649	1.745	1.467	1.771	1.599	0.745	-0.916
Fine Dust	MOOS1	45.126	-67.266	-0.017	0.001	0.561	0.232	0.409	0.397	0.139	-4.374
Fine Dust	MORA1	46.758	-122.124	-0.015	0.006	0.690	0.407	0.531	0.548	0.150	-2.708
Fine Dust	MOZI1	40.538	-106.677	-0.020	0.100	1.239	0.860	1.115	1.039	0.289	-1.924
Fine Dust	NEBR1	41.889	-100.339	0.007	0.719	1.336	1.473	1.486	1.419	0.546	0.507
Fine Dust	NOAB1	44.745	-109.382	-0.026	0.054	1.319	0.823	1.095	1.058	0.353	-2.465
Fine Dust	NOCA1	48.732	-121.065	-0.006	0.136	0.478	0.358	0.439	0.418	0.139	-1.509
Fine Dust	NOCH1	45.65	-106.557	-0.014	0.118	1.252	0.988	1.162	1.099	0.283	-1.266
Fine Dust	OKEF1	30.74	-82.128	0.016	0.330	1.507	1.807	1.628	1.657	0.484	0.952
Fine Dust	OLYM1	48.007	-122.973	-0.009	0.045	0.401	0.233	0.330	0.308	0.085	-2.865
Fine Dust	ORPI1	31.951	-112.802	-0.056	0.138	3.678	2.611	3.189	3.060	0.766	-1.833
Fine Dust	PASA1	48.388	-119.927	-0.008	0.196	0.806	0.659	0.817	0.729	0.334	-1.059
Fine Dust	PEFO1	35.078	-109.769	-0.050	0.011	2.767	1.823	2.357	2.295	0.494	-2.165
Fine Dust	PENO1	44.948	-68.648	-0.027	0.043	0.979	0.463	0.668	0.639	0.219	-4.242
Fine Dust	PINN1	36.483	-121.157	-0.005	0.299	0.954	0.851	0.936	0.902	0.162	-0.601
Fine Dust	PMRF1	44.528	-72.869	-0.023	0.000	0.713	0.281	0.497	0.486	0.175	-4.679
Fine Dust	PORE1	38.122	-122.909	-0.001	0.650	0.429	0.409	0.456	0.419	0.132	-0.248
Fine Dust	PRIS1	46.696	-68.033	-0.033	0.003	1.327	0.696	1.102	0.995	0.470	-3.340
Fine Dust	QUCI1	39.943	-81.338	-0.038	0.000	1.359	0.642	0.955	0.982	0.279	-3.842
Fine Dust	QURE1	42.299	-72.335	-0.025	0.054	0.956	0.474	0.700	0.753	0.180	-3.367
Fine Dust	QUVA1	33.294	-111.286	-0.024	0.458	3.677	3.215	3.561	3.482	0.901	-0.698
Fine Dust	RAFA1	34.734	-120.007	-0.011	0.136	1.613	1.399	1.564	1.506	0.274	-0.747

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Fine Dust	REDW1	41.561	-124.084	-0.004	0.243	0.365	0.289	0.340	0.327	0.078	-1.221
Fine Dust	ROMA1	32.941	-79.657	0.014	0.559	1.062	1.335	1.221	1.199	0.278	1.199
Fine Dust	ROMO1	40.278	-105.546	-0.054	0.000	2.222	1.200	1.665	1.711	0.466	-3.143
Fine Dust	SACR1	33.46	-104.404	-0.037	0.506	3.315	2.611	3.687	2.945	1.821	-1.257
Fine Dust	SAGA1	34.297	-118.028	-0.017	0.322	1.612	1.281	1.454	1.429	0.323	-1.219
Fine Dust	SAGO1	34.194	-116.913	-0.034	0.008	1.743	1.089	1.521	1.416	0.364	-2.431
Fine Dust	SAGU1	32.175	-110.737	-0.112	0.004	4.826	2.707	3.923	3.711	1.296	-3.006
Fine Dust	SAMA1	30.093	-84.161	-0.008	0.649	1.707	1.551	1.746	1.625	0.552	-0.506
Fine Dust	SAPE1	36.014	-106.845	-0.031	0.248	2.036	1.441	1.863	1.723	0.601	-1.818
Fine Dust	SAWE1	32.249	-111.218	-0.204	0.006	6.495	2.612	5.000	4.349	1.445	-4.698
Fine Dust	SAWT1	44.171	-114.927	-0.020	0.105	1.314	0.934	1.126	1.124	0.302	-1.779
Fine Dust	SENE1	46.289	-85.95	-0.023	0.000	0.811	0.383	0.527	0.597	0.175	-3.773
Fine Dust	SEQU1	36.489	-118.829	0.016	0.330	2.091	2.396	2.256	2.243	0.431	0.716
Fine Dust	SHEN1	38.523	-78.435	-0.032	0.000	1.046	0.447	0.785	0.746	0.277	-4.221
Fine Dust	SHMI1	37.304	-107.484	-0.016	0.729	3.255	2.948	3.090	3.061	0.655	-0.527
Fine Dust	SHRO1	35.394	-82.774	-0.038	0.014	1.338	0.609	1.095	0.974	0.513	-3.938
Fine Dust	SIAN1	34.091	-110.942	-0.057	0.181	3.172	2.088	2.637	2.773	0.605	-2.058
Fine Dust	SIME1	55.326	-160.506	-0.008	0.002	0.309	0.150	0.249	0.221	0.081	-3.788
Fine Dust	SIPS1	34.343	-87.339	-0.019	0.153	1.402	1.036	1.241	1.219	0.408	-1.581
Fine Dust	SNPA1	47.422	-121.426	-0.004	0.270	0.591	0.507	0.527	0.549	0.112	-0.805
Fine Dust	STAR1	45.225	-118.513	-0.037	0.011	1.793	1.090	1.439	1.441	0.410	-2.568
Fine Dust	SULA1	45.86	-114	-0.023	0.002	1.057	0.615	0.873	0.848	0.240	-2.745
Fine Dust	SWAN1	35.451	-76.207	-0.026	0.075	1.187	0.701	0.955	0.918	0.354	-2.787
Fine Dust	SYCA1	35.141	-111.969	-0.185	0.033	7.946	4.437	7.087	6.468	1.735	-2.855
Fine Dust	TALL1	38.434	-96.56	-0.005	0.742	1.594	1.495	1.663	1.537	0.332	-0.340
Fine Dust	THBA1	44.663	-105.287	-0.052	0.048	2.577	1.595	1.970	1.982	0.596	-2.606
Fine Dust	THRO1	46.895	-103.378	-0.026	0.069	1.782	1.284	1.577	1.533	0.356	-1.710
Fine Dust	THSI1	44.291	-122.043	0.029	0.052	0.750	1.309	1.286	1.029	0.981	2.857
Fine Dust	TONT1	33.655	-111.107	-0.044	0.270	3.603	2.761	3.150	3.182	0.785	-1.393
Fine Dust	TRCR1	62.315	-150.316	-0.007	0.211	0.416	0.275	0.374	0.338	0.139	-2.192
Fine Dust	TRIN1	40.786	-122.805	-0.024	0.087	1.241	0.789	1.032	1.039	0.300	-2.288
Fine Dust	ULBE1	47.582	-108.72	-0.019	0.069	1.345	0.980	1.182	1.162	0.331	-1.653
Fine Dust	UPBU1	35.826	-93.203	-0.024	0.243	2.006	1.547	1.766	1.776	0.425	-1.358
Fine Dust	VIIS1	18.336	-64.796	-0.076	0.742	8.301	6.862	7.752	7.619	1.985	-0.994
Fine Dust	VILA1	40.969	-95.045	-0.017	0.013	1.643	1.318	1.438	1.455	0.214	-1.176
Fine Dust	VOYA2	48.413	-92.829	-0.013	0.016	0.698	0.459	0.592	0.579	0.160	-2.172

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Fine Dust	WEMI1	37.659	-107.8	-0.001	1.000	1.480	1.455	1.509	1.468	0.499	-0.090
Fine Dust	WHIT1	33.469	-105.535	-0.048	0.272	2.698	1.793	2.448	2.197	0.993	-2.167
Fine Dust	WHPA1	46.624	-121.388	-0.009	0.173	0.652	0.480	0.588	0.566	0.202	-1.601
Fine Dust	WHPE1	36.585	-105.452	-0.042	0.084	2.126	1.327	1.689	1.705	0.423	-2.465
Fine Dust	WHRI1	39.154	-106.821	-0.002	0.846	1.505	1.463	1.396	1.484	0.384	-0.150
Fine Dust	WICA1	43.558	-103.484	-0.015	0.243	1.444	1.150	1.366	1.297	0.267	-1.192
Fine Dust	WIMO1	34.732	-98.713	0.059	0.151	1.502	2.629	2.388	2.095	1.073	2.831
Fine Dust	YELL2	44.565	-110.4	-0.015	0.153	1.004	0.713	0.854	0.858	0.220	-1.788
Fine Dust	YOSE1	37.713	-119.706	0.003	0.650	1.186	1.244	1.230	1.215	0.257	0.250
Fine Dust	ZICA1	37.198	-113.151	-0.007	0.680	2.065	1.924	2.131	1.983	0.565	-0.375
FM	ACAD1	44.377	-68.261	-0.304	0.000	11.073	5.301	7.997	8.187	1.966	-3.711
FM	AGTI1	33.464	-116.971	-0.337	0.000	12.330	5.925	9.999	8.959	2.281	-3.763
FM	BADL1	43.743	-101.941	-0.067	0.069	7.088	5.817	6.608	6.453	1.035	-1.037
FM	BALD1	34.058	-109.441	-0.068	0.086	5.895	4.612	5.226	5.220	1.072	-1.294
FM	BAND1	35.78	-106.266	-0.021	0.270	5.381	4.986	5.196	5.183	0.713	-0.401
FM	BIBE1	29.303	-103.178	-0.180	0.000	11.502	8.073	9.946	9.787	1.517	-1.844
FM	BLIS1	38.976	-120.103	0.033	0.700	5.599	6.231	6.095	5.898	1.098	0.565
FM	BOAP1	33.869	-106.852	-0.057	0.299	6.627	5.549	6.279	6.088	1.118	-0.931
FM	BOND1	40.052	-88.373	-0.597	0.000	22.353	11.007	16.082	16.382	4.151	-3.645
FM	BOWA1	47.947	-91.495	-0.205	0.000	10.089	6.191	7.869	8.140	1.605	-2.520
FM	BRCA1	37.618	-112.174	-0.033	0.105	5.024	4.400	4.789	4.712	0.637	-0.697
FM	BRID1	42.975	-109.758	-0.043	0.697	5.321	4.498	5.108	4.909	1.849	-0.883
FM	BRIG1	39.465	-74.449	-0.734	0.000	21.768	7.827	14.627	14.798	4.489	-4.958
FM	BRMA1	44.107	-70.729	-0.458	0.003	12.538	3.839	9.758	8.875	2.709	-5.159
FM	CABA1	43.833	-70.064	-0.432	0.000	14.205	5.992	10.542	9.883	2.768	-4.374
FM	CABI1	47.955	-115.671	0.028	0.600	6.507	7.046	6.557	6.791	1.465	0.418
FM	CACO1	41.976	-70.024	-0.450	0.000	14.652	6.098	10.927	10.150	3.048	-4.436
FM	CACR1	34.454	-94.143	-0.450	0.000	18.267	9.717	14.076	13.767	3.204	-3.268
FM	CANY1	38.459	-109.821	-0.055	0.092	5.310	4.258	4.846	4.784	1.060	-1.156
FM	CAPI1	38.302	-111.293	-0.075	0.075	5.510	4.091	4.897	4.726	0.821	-1.580
FM	CEBL1	38.77	-99.763	-0.196	0.002	11.821	8.103	9.753	9.668	1.637	-2.024
FM	CHAS1	28.748	-82.555	-0.407	0.000	15.150	7.422	11.758	10.879	2.753	-3.739
FM	CHIR1	32.009	-109.389	-0.094	0.032	6.963	5.178	6.243	6.071	1.332	-1.547
FM	COHU1	34.785	-84.627	-0.823	0.000	21.374	5.732	14.432	12.730	4.891	-6.467
FM	CORI1	45.664	-121.001	-0.072	0.132	10.373	9.009	9.649	9.655	1.299	-0.744
FM	CRLA1	42.896	-122.136	-0.019	0.850	5.572	5.203	7.243	5.368	5.700	-0.362

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FM	CRMO1	43.46	-113.555	-0.043	0.697	6.215	5.393	6.281	5.804	2.188	-0.745
FM	DENA1	63.723	-148.967	-0.012	0.604	2.770	2.537	2.831	2.653	0.795	-0.461
FM	DOME1	35.728	-118.138	-0.071	0.310	10.342	9.001	9.729	9.636	1.269	-0.733
FM	DOSO1	39.105	-79.426	-0.673	0.000	19.357	6.577	13.686	12.967	4.757	-5.187
FM	EGBE1	44.231	-79.783	-0.528	0.000	20.484	10.443	13.464	13.878	2.485	-3.808
FM	EVER1	25.391	-80.681	-0.224	0.006	12.112	7.849	10.167	9.868	1.807	-2.274
FM	FLAT1	47.773	-114.269	-0.045	0.510	6.270	5.410	6.829	5.772	2.383	-0.784
FM	FOPE1	48.308	-105.102	-0.022	0.680	7.641	7.226	7.407	7.400	1.638	-0.295
FM	FRRE1	39.706	-79.012	-0.934	0.000	21.921	4.171	13.288	11.177	4.978	-8.358
FM	GAMO1	46.826	-111.711	-0.007	0.910	4.589	4.457	5.107	4.523	2.164	-0.153
FM	GICL1	33.22	-108.235	-0.115	0.027	6.759	4.575	5.995	5.667	1.459	-2.028
FM	GLAC1	48.511	-113.997	-0.128	0.119	10.560	8.126	9.343	9.343	1.918	-1.371
FM	GRBA1	39.005	-114.216	-0.015	0.746	5.089	4.795	4.945	4.942	0.951	-0.313
FM	GRCA3	36.066	-112.154	-0.067	0.105	5.720	4.441	5.108	5.080	0.914	-1.325
FM	GRGU1	44.308	-71.218	-0.354	0.000	10.937	4.211	8.172	7.397	2.397	-4.785
FM	GRR11	43.937	-91.405	-0.437	0.000	17.078	8.779	12.807	12.274	2.621	-3.559
FM	GRSA1	37.725	-105.519	-0.109	0.014	6.370	4.300	5.613	5.335	1.185	-2.043
FM	GRSM1	35.633	-83.942	-0.899	0.000	22.825	5.741	15.490	14.283	5.804	-6.295
FM	GUMO1	31.833	-104.809	-0.070	0.299	8.871	7.550	8.839	8.210	1.537	-0.847
FM	HAVO1	19.431	-155.258	0.060	0.753	10.644	11.785	12.162	11.245	5.272	0.534
FM	HECA1	44.97	-116.844	-0.047	0.700	7.318	6.424	7.207	6.848	2.143	-0.687
FM	HEGL1	36.614	-92.922	-0.506	0.000	17.714	8.106	13.630	12.657	3.220	-3.995
FM	HOOV1	38.088	-119.177	0.032	0.520	5.497	6.099	6.626	5.829	2.820	0.543
FM	IKBA1	34.34	-111.683	-0.082	0.011	6.991	5.438	6.647	6.214	1.224	-1.315
FM	ISLE1	47.46	-88.149	-0.265	0.000	11.001	5.975	8.659	8.488	1.915	-3.117
FM	JARB1	41.893	-115.426	0.030	0.516	6.495	7.057	6.809	6.776	1.773	0.437
FM	JARI1	37.627	-79.512	-0.822	0.000	22.363	6.754	14.910	14.148	4.792	-5.807
FM	JOSH1	34.07	-116.389	-0.211	0.000	10.140	6.140	8.165	8.140	1.635	-2.586
FM	KAIS1	37.221	-119.155	0.038	0.677	6.949	7.678	7.764	7.352	1.591	0.521
FM	KALM1	42.552	-124.059	-0.011	0.795	5.905	5.700	5.925	5.802	0.895	-0.186
FM	LABE1	41.712	-121.507	0.017	0.897	6.066	6.388	8.314	6.227	8.508	0.272
FM	LASU2	40.693	-92.006	-0.555	0.000	19.720	9.178	13.287	13.062	2.872	-4.248
FM	LAVO1	40.54	-121.577	-0.010	0.897	5.852	5.658	6.941	5.755	3.364	-0.177
FM	LIGO1	35.972	-81.933	-0.757	0.000	19.868	5.487	14.512	12.678	5.666	-5.970
FM	LOST1	48.642	-102.402	-0.025	0.697	8.443	7.961	8.154	8.202	1.033	-0.309
FM	MACA1	37.132	-86.148	-0.676	0.000	20.431	7.593	15.543	14.012	4.511	-4.822

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FM	MAVI1	41.331	-70.785	-0.389	0.000	16.057	8.670	11.676	11.780	2.487	-3.301
FM	MEAD1	36.019	-114.068	-0.096	0.084	7.205	5.376	6.178	6.146	0.917	-1.566
FM	MELA1	48.487	-104.476	-0.017	0.697	7.403	7.078	7.329	7.240	0.995	-0.236
FM	MEVE1	37.198	-108.491	-0.135	0.000	6.440	3.884	5.415	5.162	1.868	-2.606
FM	MING1	36.972	-90.143	-0.617	0.000	22.312	10.598	16.517	16.147	4.428	-3.818
FM	MOHO1	45.289	-121.784	-0.043	0.270	5.340	4.514	5.014	4.927	1.131	-0.882
FM	MOMO1	41.821	-73.297	-0.543	0.000	15.911	5.587	11.212	10.206	3.496	-5.324
FM	MONT1	47.122	-113.154	0.015	0.600	6.252	6.544	8.360	6.405	4.600	0.240
FM	MOOS1	45.126	-67.266	-0.250	0.000	9.159	4.408	7.201	6.784	1.777	-3.686
FM	MORA1	46.758	-122.124	-0.126	0.004	7.708	5.311	6.322	6.509	1.105	-1.939
FM	MOZI1	40.538	-106.677	-0.038	0.421	4.695	3.968	4.214	4.313	0.683	-0.888
FM	NEBR1	41.889	-100.339	-0.122	0.059	9.807	7.486	8.329	8.402	1.271	-1.454
FM	NOAB1	44.745	-109.382	-0.064	0.151	5.668	4.461	5.160	5.033	1.375	-1.262
FM	NOCA1	48.732	-121.065	-0.072	0.243	5.893	4.527	5.432	5.210	1.553	-1.380
FM	NOCH1	45.65	-106.557	-0.022	0.742	5.632	5.209	6.372	5.387	2.064	-0.414
FM	OKEF1	30.74	-82.128	-0.449	0.000	16.480	7.956	12.958	12.218	3.167	-3.672
FM	OLYM1	48.007	-122.973	-0.079	0.021	5.647	4.142	4.884	4.815	0.687	-1.645
FM	ORPI1	31.951	-112.802	-0.148	0.007	8.569	5.757	7.048	6.941	1.354	-2.132
FM	PASA1	48.388	-119.927	-0.047	0.649	6.127	5.233	6.141	5.656	3.092	-0.832
FM	PEFO1	35.078	-109.769	-0.100	0.019	6.690	4.795	6.040	5.743	1.061	-1.737
FM	PENO1	44.948	-68.648	-0.335	0.001	13.607	7.250	8.989	9.425	1.497	-3.550
FM	PINN1	36.483	-121.157	-0.068	0.153	7.648	6.356	7.271	7.002	1.263	-0.971
FM	PMRF1	44.528	-72.869	-0.489	0.000	14.332	5.048	9.885	9.446	3.127	-5.173
FM	PORE1	38.122	-122.909	-0.056	0.436	11.287	10.231	11.155	10.759	1.681	-0.517
FM	PRIS1	46.696	-68.033	-0.320	0.000	10.792	4.719	8.151	7.595	2.304	-4.208
FM	QUCI1	39.943	-81.338	-0.785	0.000	22.722	7.807	16.190	14.872	4.862	-5.279
FM	QURE1	42.299	-72.335	-0.616	0.000	15.723	4.013	12.211	10.792	3.553	-5.711
FM	QUVA1	33.294	-111.286	-0.121	0.102	9.075	6.768	7.600	8.104	1.325	-1.498
FM	RAFA1	34.734	-120.007	-0.122	0.016	8.749	6.427	7.950	7.588	1.282	-1.611
FM	REDW1	41.561	-124.084	0.030	0.795	6.986	7.559	7.186	7.272	1.471	0.415
FM	ROMA1	32.941	-79.657	-0.515	0.000	17.573	7.788	13.248	12.680	3.659	-4.062
FM	ROMO1	40.278	-105.546	-0.093	0.105	6.432	4.674	5.633	5.553	1.228	-1.666
FM	SACR1	33.46	-104.404	-0.124	0.064	10.534	8.176	9.798	9.293	2.287	-1.335
FM	SAGA1	34.297	-118.028	-0.174	0.000	9.319	6.019	7.411	7.495	1.220	-2.317
FM	SAGO1	34.194	-116.913	-0.362	0.000	11.896	5.018	8.933	8.457	2.338	-4.281
FM	SAGU1	32.175	-110.737	-0.190	0.006	9.158	5.556	7.531	7.262	1.626	-2.611



Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
FM	SAMA1	30.093	-84.161	-0.486	0.000	17.848	8.610	13.055	12.986	3.170	-3.744
FM	SAPE1	36.014	-106.845	-0.061	0.039	5.374	4.213	4.772	4.763	0.807	-1.282
FM	SAWE1	32.249	-111.218	-0.226	0.007	10.507	6.216	8.608	8.136	2.146	-2.777
FM	SAWT1	44.171	-114.927	-0.040	0.650	6.327	5.577	7.746	5.952	4.499	-0.664
FM	SENE1	46.289	-85.95	-0.369	0.000	13.141	6.127	10.006	9.634	2.691	-3.831
FM	SEQU1	36.489	-118.829	-0.175	0.173	15.662	12.344	14.371	14.003	3.111	-1.247
FM	SHEN1	38.523	-78.435	-0.809	0.000	21.494	6.131	14.855	13.812	5.371	-5.854
FM	SHMI1	37.304	-107.484	-0.024	0.619	6.313	5.860	6.023	6.027	1.087	-0.396
FM	SHRO1	35.394	-82.774	-0.670	0.000	19.442	6.720	13.059	13.081	4.270	-5.119
FM	SIAN1	34.091	-110.942	-0.119	0.181	7.729	5.475	6.833	6.899	1.268	-1.720
FM	SIME1	55.326	-160.506	-0.038	0.344	5.223	4.509	5.028	4.828	0.600	-0.778
FM	SIPS1	34.343	-87.339	-0.607	0.000	20.792	9.252	15.514	15.022	4.619	-4.043
FM	SNPA1	47.422	-121.426	-0.120	0.052	6.860	4.583	5.879	5.721	1.382	-2.094
FM	STAR1	45.225	-118.513	-0.152	0.027	8.527	5.634	7.156	7.080	1.685	-2.150
FM	SULA1	45.86	-114	-0.039	0.248	5.441	4.706	7.343	5.093	6.227	-0.759
FM	SWAN1	35.451	-76.207	-0.427	0.000	16.340	8.219	12.019	11.852	3.114	-3.606
FM	SYCA1	35.141	-111.969	-0.162	0.299	11.776	8.692	10.669	10.477	2.321	-1.549
FM	TALL1	38.434	-96.56	-0.333	0.000	16.166	9.839	12.776	12.503	2.180	-2.663
FM	THBA1	44.663	-105.287	-0.033	0.589	7.038	6.418	7.082	6.663	1.799	-0.490
FM	THRO1	46.895	-103.378	-0.074	0.032	7.850	6.449	7.420	7.149	1.387	-1.032
FM	THSI1	44.291	-122.043	0.003	0.846	6.152	6.208	6.621	6.180	1.502	0.047
FM	TONT1	33.655	-111.107	-0.091	0.080	7.668	5.940	7.337	6.804	1.581	-1.337
FM	TRCR1	62.315	-150.316	-0.078	0.025	3.521	2.044	3.157	2.705	1.061	-2.874
FM	TRIN1	40.786	-122.805	-0.055	0.589	6.853	5.804	7.494	6.384	3.196	-0.865
FM	ULBE1	47.582	-108.72	-0.013	0.697	6.273	6.017	6.217	6.145	1.072	-0.219
FM	UPBU1	35.826	-93.203	-0.431	0.000	17.446	9.264	13.978	13.355	3.260	-3.225
FM	VIIS1	18.336	-64.796	-0.051	0.458	13.925	12.956	13.379	13.466	1.778	-0.379
FM	VILA1	40.969	-95.045	-0.481	0.000	18.766	9.624	13.559	13.473	2.745	-3.571
FM	VOYA2	48.413	-92.829	-0.063	0.044	8.631	7.439	8.037	8.035	1.131	-0.781
FM	WEMI1	37.659	-107.8	-0.061	0.019	4.977	3.818	4.445	4.397	0.789	-1.388
FM	WHIT1	33.469	-105.535	-0.080	0.053	6.954	5.436	6.768	6.115	1.597	-1.306
FM	WHPA1	46.624	-121.388	-0.040	0.364	4.451	3.695	4.134	4.073	0.925	-0.977
FM	WHPE1	36.585	-105.452	-0.069	0.013	5.193	3.879	4.561	4.502	0.676	-1.537
FM	WHRI1	39.154	-106.821	-0.056	0.038	4.761	3.697	4.190	4.229	0.725	-1.324
FM	WICA1	43.558	-103.484	-0.050	0.218	6.802	5.848	6.306	6.325	0.895	-0.794
FM	WIMO1	34.732	-98.713	-0.324	0.000	15.606	9.449	12.370	12.365	2.299	-2.621

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FM	YELL2	44.565	-110.4	0.021	0.650	5.081	5.472	5.602	5.276	1.760	0.390
FM	YOSE1	37.713	-119.706	0.007	0.897	7.921	8.047	8.918	7.984	3.797	0.083
FM	ZICA1	37.198	-113.151	-0.103	0.058	6.516	4.557	5.576	5.382	1.017	-1.915
CM	ACAD1	44.377	-68.261	0.027	0.330	4.780	5.298	5.092	5.039	0.687	0.541
CM	AGTI1	33.464	-116.971	-0.122	0.221	15.283	12.961	14.444	14.061	2.266	-0.869
CM	BADL1	43.743	-101.941	-0.201	0.019	12.861	9.036	11.242	10.949	2.210	-1.839
CM	BALD1	34.058	-109.441	-0.082	0.046	6.641	5.088	6.174	5.823	1.330	-1.404
CM	BAND1	35.78	-106.266	0.007	0.846	6.242	6.384	6.928	6.313	1.857	0.118
CM	BIBE1	29.303	-103.178	-0.176	0.270	13.699	10.358	13.286	12.028	4.322	-1.462
CM	BLIS1	38.976	-120.103	0.120	0.000	3.377	5.648	4.541	4.453	0.801	2.684
CM	BOAP1	33.869	-106.852	-0.235	0.153	12.522	8.065	12.036	10.294	4.437	-2.279
CM	BOND1	40.052	-88.373	0.108	0.278	12.123	14.171	13.202	13.201	2.046	0.817
CM	BOWA1	47.947	-91.495	0.004	0.897	5.574	5.641	5.601	5.608	0.909	0.064
CM	BRCA1	37.618	-112.174	0.001	0.948	5.880	5.908	5.990	5.894	1.030	0.025
CM	BRID1	42.975	-109.758	-0.022	0.604	4.273	3.855	4.072	4.064	0.658	-0.541
CM	BRIG1	39.465	-74.449	0.057	0.795	13.670	14.750	18.446	14.210	10.175	0.400
CM	BRMA1	44.107	-70.729	-0.022	0.586	4.294	3.870	4.291	4.115	0.541	-0.543
CM	CABA1	43.833	-70.064	0.037	0.221	5.487	6.187	6.387	5.856	1.207	0.629
CM	CABI1	47.955	-115.671	-0.051	0.221	6.357	5.395	5.789	5.851	0.941	-0.865
CM	CACO1	41.976	-70.024	-0.018	0.807	8.920	8.577	8.833	8.739	1.072	-0.207
CM	CACR1	34.454	-94.143	0.026	0.807	10.350	10.853	10.673	10.615	1.820	0.250
CM	CANY1	38.459	-109.821	-0.009	0.846	7.326	7.156	7.204	7.241	1.194	-0.124
CM	CAPI1	38.302	-111.293	0.051	0.384	6.083	7.057	6.723	6.621	1.108	0.774
CM	CEBL1	38.77	-99.763	0.130	0.323	14.713	17.189	16.925	16.146	3.034	0.807
CM	CHAS1	28.748	-82.555	-0.006	0.850	9.128	9.007	9.160	9.061	1.343	-0.070
CM	CHIR1	32.009	-109.389	0.073	0.299	13.027	14.406	12.664	13.717	3.354	0.529
CM	COHU1	34.785	-84.627	0.119	0.045	5.104	7.370	6.530	6.356	1.205	1.876
CM	CORI1	45.664	-121.001	0.614	0.100	16.769	28.441	25.768	22.912	8.626	2.681
CM	CRLA1	42.896	-122.136	-0.067	0.025	3.767	2.494	3.044	3.063	0.595	-2.188
CM	CRMO1	43.46	-113.555	-0.053	0.248	7.786	6.787	7.458	7.260	1.860	-0.724
CM	DENA1	63.723	-148.967	0.065	0.038	2.123	3.358	2.842	2.740	0.768	2.373
CM	DOME1	35.728	-118.138	0.267	0.115	17.756	22.837	20.475	20.430	3.520	1.309
CM	DOSO1	39.105	-79.426	0.019	0.559	4.445	4.811	5.115	4.628	1.081	0.417
CM	EGBE1	44.231	-79.783	-0.015	0.702	8.709	8.425	8.428	8.522	1.095	-0.175
CM	EVER1	25.391	-80.681	0.175	0.054	10.128	13.444	12.331	11.874	3.137	1.470
CM	FLAT1	47.773	-114.269	0.033	0.805	5.660	6.281	6.223	6.019	1.307	0.544

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CM	FOPE1	48.308	-105.102	0.054	0.458	10.460	11.486	10.983	11.054	1.171	0.489
CM	FRRE1	39.706	-79.012	0.036	0.471	5.506	6.194	6.372	5.923	1.345	0.611
CM	GAMO1	46.826	-111.711	0.010	0.733	3.488	3.681	3.644	3.584	0.430	0.283
CM	GICL1	33.22	-108.235	0.004	0.948	5.517	5.601	5.905	5.559	1.435	0.080
CM	GLAC1	48.511	-113.997	-0.011	0.846	13.379	13.169	13.475	13.274	3.488	-0.083
CM	GRBA1	39.005	-114.216	0.020	0.795	6.244	6.623	6.432	6.433	0.975	0.310
CM	GRCA3	36.066	-112.154	-0.149	0.014	6.989	4.156	5.708	5.722	1.230	-2.606
CM	GRGU1	44.308	-71.218	-0.034	0.140	5.659	5.006	5.417	5.315	0.748	-0.646
CM	GRII1	43.937	-91.405	-0.243	0.138	14.573	9.963	11.839	11.904	2.813	-2.038
CM	GRSA1	37.725	-105.519	-0.358	0.008	11.818	5.017	8.984	8.418	3.555	-4.252
CM	GRSM1	35.633	-83.942	0.006	0.897	6.703	6.820	6.806	6.762	0.992	0.091
CM	GUMO1	31.833	-104.809	-0.411	0.153	22.073	14.271	21.512	18.172	8.988	-2.259
CM	HAVO1	19.431	-155.258	0.045	0.074	2.466	3.329	2.973	2.921	0.485	1.556
CM	HECA1	44.97	-116.844	-0.027	0.649	7.379	6.869	7.245	7.111	1.050	-0.378
CM	HEGL1	36.614	-92.922	0.068	0.600	8.350	9.634	9.474	9.025	1.683	0.749
CM	HOOV1	38.088	-119.177	-0.039	0.344	5.458	4.719	5.260	5.050	1.011	-0.770
CM	IKBA1	34.34	-111.683	-0.093	0.218	10.727	8.957	10.387	9.842	2.577	-0.947
CM	ISLE1	47.46	-88.149	-0.136	0.038	7.845	5.257	6.934	6.551	1.569	-2.079
CM	JARB1	41.893	-115.426	-0.003	1.000	9.554	9.497	9.747	9.525	1.651	-0.031
CM	JARI1	37.627	-79.512	-0.065	0.196	6.533	5.293	5.919	5.881	1.042	-1.110
CM	JOSH1	34.07	-116.389	-0.117	0.243	14.682	12.458	13.428	13.570	2.085	-0.863
CM	KAIS1	37.221	-119.155	0.165	0.075	7.215	10.341	9.194	8.943	1.574	1.839
CM	KALM1	42.552	-124.059	0.005	0.795	4.313	4.412	4.349	4.363	0.668	0.120
CM	LABEL1	41.712	-121.507	0.000	1.000	4.970	4.966	5.079	4.968	0.585	-0.004
CM	LASU2	40.693	-92.006	0.387	0.083	10.419	17.772	15.772	15.063	2.887	2.569
CM	LAVO1	40.54	-121.577	0.058	0.364	4.689	5.789	5.333	5.239	1.277	1.105
CM	LIGO1	35.972	-81.933	0.018	0.649	5.034	5.372	5.148	5.212	0.633	0.341
CM	LOST1	48.642	-102.402	-0.005	1.000	14.101	14.007	14.589	14.054	2.546	-0.035
CM	MACA1	37.132	-86.148	0.025	0.604	6.354	6.833	6.588	6.593	1.013	0.382
CM	MAVI1	41.331	-70.785	0.622	0.004	4.875	16.690	14.774	11.715	7.443	5.308
CM	MEAD1	36.019	-114.068	-0.008	0.934	10.660	10.499	10.941	10.567	1.791	-0.080
CM	MELA1	48.487	-104.476	-0.014	0.846	13.009	12.750	13.189	12.880	1.785	-0.106
CM	MEVE1	37.198	-108.491	-0.109	0.173	7.413	5.342	7.460	6.378	3.998	-1.709
CM	MING1	36.972	-90.143	0.044	0.807	16.415	17.246	17.604	16.852	3.660	0.260
CM	MOHO1	45.289	-121.784	0.042	0.364	3.849	4.651	4.212	4.250	1.388	0.993
CM	MOMO1	41.821	-73.297	-0.023	0.621	5.790	5.348	5.462	5.534	1.136	-0.420

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CM	MONT1	47.122	-113.154	0.121	0.310	5.395	7.691	7.070	6.604	2.197	1.830
CM	MOOS1	45.126	-67.266	-0.045	0.044	4.424	3.576	4.005	4.000	0.697	-1.115
CM	MORA1	46.758	-122.124	-0.018	0.604	4.546	4.201	4.516	4.373	1.283	-0.415
CM	MOZI1	40.538	-106.677	-0.143	0.033	5.944	3.227	5.104	4.514	1.522	-3.168
CM	NEBR1	41.889	-100.339	-0.051	0.589	11.636	10.666	11.363	11.049	2.076	-0.462
CM	NOAB1	44.745	-109.382	-0.158	0.000	7.070	4.076	5.729	5.652	1.118	-2.788
CM	NOCA1	48.732	-121.065	0.001	0.948	2.985	3.003	3.212	2.994	0.760	0.032
CM	NOCH1	45.65	-106.557	-0.041	0.742	7.972	7.192	7.686	7.521	1.800	-0.546
CM	OKEF1	30.74	-82.128	0.106	0.194	7.642	9.665	8.780	8.654	2.065	1.230
CM	OLYM1	48.007	-122.973	-0.040	0.103	3.317	2.550	3.034	2.893	0.497	-1.395
CM	ORPI1	31.951	-112.802	0.157	0.187	12.710	15.690	14.604	14.435	3.610	1.086
CM	PASA1	48.388	-119.927	0.058	0.132	3.361	4.468	4.272	3.944	1.205	1.478
CM	PEFO1	35.078	-109.769	-0.025	0.746	9.408	8.926	10.168	9.167	4.117	-0.277
CM	PENO1	44.948	-68.648	0.066	0.702	7.902	9.147	9.163	8.721	2.414	0.751
CM	PINN1	36.483	-121.157	0.029	0.604	10.064	10.608	10.311	10.336	1.130	0.277
CM	PMRF1	44.528	-72.869	-0.047	0.054	4.434	3.541	3.979	3.964	0.526	-1.187
CM	PORE1	38.122	-122.909	-0.133	0.270	16.171	13.652	15.184	14.911	2.191	-0.889
CM	PRIS1	46.696	-68.033	-0.122	0.221	12.393	10.070	11.679	11.170	2.363	-1.095
CM	QUCI1	39.943	-81.338	0.065	0.506	8.656	9.894	9.299	9.308	2.540	0.700
CM	QURE1	42.299	-72.335	-0.065	0.255	5.539	4.313	4.841	5.022	0.763	-1.285
CM	QUVA1	33.294	-111.286	-0.055	0.882	17.321	16.269	17.460	16.878	3.880	-0.328
CM	RAFA1	34.734	-120.007	0.038	0.604	13.942	14.663	14.601	14.302	1.480	0.265
CM	REDW1	41.561	-124.084	0.096	0.080	6.722	8.541	7.788	7.631	1.408	1.255
CM	ROMA1	32.941	-79.657	0.040	0.399	9.754	10.511	10.379	10.132	1.614	0.393
CM	ROMO1	40.278	-105.546	-0.100	0.105	8.017	6.113	7.553	7.065	2.475	-1.418
CM	SACR1	33.46	-104.404	0.207	0.310	19.560	23.491	23.203	21.629	7.187	0.957
CM	SAGA1	34.297	-118.028	-0.007	0.928	10.038	9.915	10.275	9.970	1.624	-0.065
CM	SAGO1	34.194	-116.913	-0.225	0.014	12.956	8.679	11.294	10.818	2.251	-2.081
CM	SAGU1	32.175	-110.737	-0.014	0.861	13.780	13.522	13.584	13.644	2.305	-0.099
CM	SAMA1	30.093	-84.161	0.050	0.196	7.239	8.193	7.879	7.741	1.089	0.649
CM	SAPE1	36.014	-106.845	-0.008	0.861	4.700	4.553	5.027	4.623	1.428	-0.167
CM	SAWE1	32.249	-111.218	-0.058	0.850	19.560	18.466	19.114	18.956	3.118	-0.304
CM	SAWT1	44.171	-114.927	-0.011	0.861	4.265	4.052	4.426	4.153	1.028	-0.269
CM	SENE1	46.289	-85.95	0.010	0.846	4.593	4.788	4.605	4.690	0.836	0.219
CM	SEQU1	36.489	-118.829	0.126	0.330	17.541	19.933	19.858	18.737	3.094	0.672
CM	SHEN1	38.523	-78.435	0.035	0.399	5.388	6.053	6.231	5.721	1.651	0.611

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CM	SHMI1	37.304	-107.484	-0.084	0.255	11.688	10.100	10.662	10.685	1.101	-0.782
CM	SHRO1	35.394	-82.774	0.136	0.039	3.673	6.253	5.177	5.031	1.696	2.699
CM	SIAN1	34.091	-110.942	-0.271	0.139	10.415	5.273	9.176	8.520	2.145	-3.177
CM	SIME1	55.326	-160.506	-0.125	0.063	9.449	7.072	8.333	8.135	1.212	-1.538
CM	SIPS1	34.343	-87.339	-0.101	0.008	8.504	6.588	7.629	7.546	1.055	-1.336
CM	SNPA1	47.422	-121.426	0.035	0.173	2.873	3.536	3.214	3.204	0.603	1.089
CM	STAR1	45.225	-118.513	-0.147	0.011	9.854	7.053	8.490	8.454	1.759	-1.744
CM	SULA1	45.86	-114	-0.031	0.510	4.984	4.395	4.856	4.674	1.366	-0.664
CM	SWAN1	35.451	-76.207	0.017	0.742	8.810	9.134	9.070	8.997	1.412	0.189
CM	SYCA1	35.141	-111.969	0.324	0.216	14.810	20.957	18.278	17.398	3.355	1.859
CM	TALL1	38.434	-96.56	0.184	0.099	11.809	15.297	14.070	13.828	2.350	1.328
CM	THBA1	44.663	-105.287	-0.134	0.177	12.273	9.726	11.252	10.731	2.215	-1.249
CM	THRO1	46.895	-103.378	-0.098	0.119	13.559	11.693	12.792	12.626	1.804	-0.778
CM	THSI1	44.291	-122.043	0.258	0.008	5.357	10.252	9.532	7.804	7.036	3.301
CM	TONT1	33.655	-111.107	0.006	0.948	13.261	13.381	12.925	13.321	2.424	0.047
CM	TRCR1	62.315	-150.316	0.020	0.306	3.176	3.553	3.632	3.384	0.945	0.586
CM	TRIN1	40.786	-122.805	0.041	0.589	5.649	6.426	5.884	5.996	1.401	0.682
CM	ULBE1	47.582	-108.72	-0.081	0.173	9.062	7.519	8.768	8.290	1.971	-0.979
CM	UPBU1	35.826	-93.203	-0.542	0.005	16.508	6.216	12.426	11.362	4.382	-4.767
CM	VIIS1	18.336	-64.796	0.246	0.249	25.463	30.141	27.183	27.679	4.237	0.890
CM	VILA1	40.969	-95.045	-0.070	0.742	19.466	18.142	19.154	18.699	2.937	-0.373
CM	VOYA2	48.413	-92.829	0.005	0.846	5.759	5.848	5.964	5.803	0.984	0.081
CM	WEMI1	37.659	-107.8	-0.044	0.330	5.187	4.356	4.933	4.772	1.166	-0.917
CM	WHIT1	33.469	-105.535	-0.097	0.570	11.309	9.467	12.067	10.291	6.150	-0.942
CM	WHPA1	46.624	-121.388	-0.007	0.846	3.562	3.422	3.754	3.492	1.204	-0.211
CM	WHPE1	36.585	-105.452	-0.042	0.621	4.995	4.204	4.796	4.579	1.424	-0.909
CM	WHRI1	39.154	-106.821	-0.133	0.000	5.443	2.925	4.239	4.184	1.031	-3.169
CM	WICA1	43.558	-103.484	-0.065	0.248	8.412	7.180	7.847	7.829	1.281	-0.828
CM	WIMO1	34.732	-98.713	0.039	0.861	12.971	13.712	13.948	13.361	2.547	0.292
CM	YELL2	44.565	-110.4	-0.027	0.270	4.897	4.381	4.466	4.639	0.728	-0.586
CM	YOSE1	37.713	-119.706	0.168	0.006	7.323	10.517	9.023	8.920	2.013	1.885
CM	ZICA1	37.198	-113.151	-0.098	0.284	10.854	8.999	9.578	9.780	1.747	-0.998
PM10	ACAD1	44.377	-68.261	-0.221	0.001	14.741	10.539	12.328	12.640	1.761	-1.750
PM10	AGTI1	33.464	-116.971	-0.405	0.000	27.554	19.857	24.035	23.503	3.650	-1.724
PM10	BADL1	43.743	-101.941	-0.272	0.052	19.933	14.764	17.542	17.348	2.948	-1.568
PM10	BALD1	34.058	-109.441	-0.103	0.172	12.028	10.067	11.257	10.996	1.894	-0.939

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PM10	BAND1	35.78	-106.266	-0.105	0.243	12.135	10.142	11.788	11.139	2.321	-0.942
PM10	BIBE1	29.303	-103.178	-0.331	0.038	23.220	16.923	21.942	20.072	4.869	-1.651
PM10	BLIS1	38.976	-120.103	0.132	0.074	9.163	11.668	10.368	10.349	1.603	1.274
PM10	BOAP1	33.869	-106.852	-0.230	0.243	17.385	13.017	18.236	15.201	6.397	-1.512
PM10	BOND1	40.052	-88.373	-0.538	0.000	31.343	21.125	26.312	25.965	4.250	-2.071
PM10	BOWA1	47.947	-91.495	-0.202	0.004	14.760	10.930	13.133	12.845	2.021	-1.569
PM10	BRCA1	37.618	-112.174	-0.027	0.697	10.862	10.350	10.868	10.606	1.496	-0.254
PM10	BRID1	42.975	-109.758	-0.049	0.559	9.546	8.609	9.091	9.077	2.003	-0.543
PM10	BRIG1	39.465	-74.449	-0.644	0.023	35.294	23.066	30.927	29.180	11.063	-2.206
PM10	BRMA1	44.107	-70.729	-0.534	0.002	17.682	7.533	13.510	13.409	3.056	-3.983
PM10	CABA1	43.833	-70.064	-0.354	0.000	19.025	12.305	15.630	15.488	2.797	-2.283
PM10	CABI1	47.955	-115.671	0.012	0.861	12.155	12.392	12.463	12.280	2.438	0.102
PM10	CACO1	41.976	-70.024	-0.481	0.000	23.249	14.115	18.816	18.442	3.584	-2.607
PM10	CACR1	34.454	-94.143	-0.523	0.000	27.587	17.643	22.807	22.354	4.026	-2.341
PM10	CANY1	38.459	-109.821	-0.065	0.243	12.224	10.993	12.040	11.608	2.187	-0.558
PM10	CAPI1	38.302	-111.293	0.027	0.910	10.965	11.476	11.229	11.247	1.745	0.239
PM10	CEBL1	38.77	-99.763	0.029	0.869	23.497	24.049	24.689	23.817	3.896	0.122
PM10	CHAS1	28.748	-82.555	-0.313	0.000	21.066	15.111	18.929	18.089	2.854	-1.733
PM10	CHIR1	32.009	-109.389	0.003	1.000	19.469	19.517	18.106	19.493	3.678	0.013
PM10	COHU1	34.785	-84.627	-0.639	0.000	24.471	12.326	19.164	17.759	4.112	-3.599
PM10	CORI1	45.664	-121.001	0.718	0.032	22.860	36.507	32.826	29.683	9.518	2.420
PM10	CRLA1	42.896	-122.136	0.025	0.846	8.466	8.942	11.307	8.704	8.226	0.288
PM10	CRMO1	43.46	-113.555	-0.045	0.600	12.620	11.769	13.217	12.172	3.296	-0.368
PM10	DENA1	63.723	-148.967	0.032	0.475	4.920	5.529	5.815	5.225	1.697	0.614
PM10	DOME1	35.728	-118.138	0.114	0.345	28.992	31.161	30.304	30.134	4.896	0.379
PM10	DOSO1	39.105	-79.426	-0.705	0.000	23.862	10.469	17.832	17.165	4.680	-4.106
PM10	EGBE1	44.231	-79.783	-0.490	0.003	26.157	16.847	19.946	20.032	2.785	-2.446
PM10	EVER1	25.391	-80.681	0.093	0.463	19.468	21.233	21.012	20.397	3.465	0.456
PM10	FLAT1	47.773	-114.269	-0.049	0.742	12.203	11.275	12.877	11.666	3.086	-0.419
PM10	FOPE1	48.308	-105.102	0.122	0.510	15.348	17.673	17.083	16.694	2.096	0.733
PM10	FRRE1	39.706	-79.012	-0.842	0.000	27.365	11.370	18.317	17.684	4.395	-4.760
PM10	GAMO1	46.826	-111.711	0.028	0.753	7.818	8.356	9.550	8.101	3.549	0.350
PM10	GICL1	33.22	-108.235	-0.179	0.119	13.590	10.183	12.680	11.886	3.588	-1.509
PM10	GLAC1	48.511	-113.997	-0.200	0.330	23.661	19.869	22.518	21.765	5.301	-0.917
PM10	GRBA1	39.005	-114.216	0.003	1.000	10.843	10.904	11.136	10.874	1.779	0.030
PM10	GRCA3	36.066	-112.154	-0.202	0.011	12.845	9.006	10.756	11.128	1.980	-1.816

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PM10	GRGU1	44.308	-71.218	-0.369	0.000	16.569	9.562	13.146	12.881	2.411	-2.863
PM10	GRII1	43.937	-91.405	-0.652	0.000	30.553	18.158	23.212	23.377	3.931	-2.791
PM10	GRSA1	37.725	-105.519	-0.472	0.004	18.157	9.192	14.454	13.675	5.020	-3.451
PM10	GRSM1	35.633	-83.942	-0.794	0.000	28.054	12.977	20.993	20.516	5.489	-3.868
PM10	GUMO1	31.833	-104.809	-0.394	0.173	28.706	21.227	28.520	24.967	9.976	-1.577
PM10	HAVO1	19.431	-155.258	0.041	0.861	12.627	13.409	13.390	13.038	5.161	0.316
PM10	HECA1	44.97	-116.844	-0.010	0.972	13.666	13.480	13.979	13.568	2.682	-0.072
PM10	HEGL1	36.614	-92.922	-0.325	0.003	25.637	19.464	21.651	22.388	2.973	-1.451
PM10	HOOV1	38.088	-119.177	0.029	0.733	10.311	10.866	11.113	10.618	2.657	0.275
PM10	IKBA1	34.34	-111.683	-0.206	0.136	17.782	13.870	16.277	15.826	3.358	-1.301
PM10	ISLE1	47.46	-88.149	-0.431	0.000	19.096	10.914	14.926	15.005	3.044	-2.870
PM10	JARB1	41.893	-115.426	0.050	0.746	15.325	16.276	16.646	15.800	3.405	0.317
PM10	JARI1	37.627	-79.512	-0.873	0.000	28.795	12.217	19.650	20.070	5.238	-4.348
PM10	JOSH1	34.07	-116.389	-0.334	0.016	24.232	17.879	21.092	21.056	3.195	-1.588
PM10	KAIS1	37.221	-119.155	0.208	0.120	14.020	17.971	16.638	16.203	2.594	1.284
PM10	KALM1	42.552	-124.059	-0.018	0.650	9.746	9.400	10.151	9.573	1.959	-0.190
PM10	LABE1	41.712	-121.507	0.092	0.399	10.325	12.078	13.818	11.202	8.780	0.824
PM10	LASU2	40.693	-92.006	-0.028	0.882	25.655	25.132	25.777	25.325	2.776	-0.109
PM10	LAVO1	40.54	-121.577	0.183	0.027	9.423	12.898	12.525	11.161	4.842	1.639
PM10	LIGO1	35.972	-81.933	-0.745	0.000	24.485	10.336	18.976	17.038	5.492	-4.371
PM10	LOST1	48.642	-102.402	0.020	0.846	20.781	21.163	21.604	20.972	3.465	0.096
PM10	MACA1	37.132	-86.148	-0.731	0.000	27.619	13.726	21.172	20.673	5.180	-3.537
PM10	MAVI1	41.331	-70.785	0.251	0.187	19.001	23.765	24.391	21.759	5.640	1.152
PM10	MEAD1	36.019	-114.068	-0.155	0.365	18.006	15.058	16.657	16.299	2.301	-0.952
PM10	MELA1	48.487	-104.476	0.021	0.846	19.978	20.385	19.442	20.181	2.832	0.106
PM10	MEVE1	37.198	-108.491	-0.226	0.032	13.198	8.900	12.560	11.049	5.440	-2.047
PM10	MING1	36.972	-90.143	-0.485	0.011	34.296	25.080	31.669	29.445	6.318	-1.647
PM10	MOHO1	45.289	-121.784	0.060	0.604	8.221	9.365	9.351	8.793	3.321	0.685
PM10	MOMO1	41.821	-73.297	-0.739	0.000	24.475	10.430	16.179	16.344	4.109	-4.523
PM10	MONT1	47.122	-113.154	0.136	0.600	13.563	16.138	15.856	14.919	5.333	0.909
PM10	MOOS1	45.126	-67.266	-0.329	0.000	13.562	7.308	10.885	10.435	2.215	-3.155
PM10	MORA1	46.758	-122.124	-0.149	0.044	12.159	9.337	10.640	10.748	2.023	-1.382
PM10	MOZI1	40.538	-106.677	-0.115	0.172	9.790	7.614	8.988	8.645	1.937	-1.325
PM10	NEBR1	41.889	-100.339	-0.025	0.805	18.706	18.233	18.982	18.432	2.504	-0.135
PM10	NOAB1	44.745	-109.382	-0.147	0.026	11.568	8.778	10.330	10.246	1.968	-1.433
PM10	NOCA1	48.732	-121.065	-0.070	0.399	8.641	7.320	8.351	7.980	1.838	-0.871

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PM10	NOCH1	45.65	-106.557	-0.024	0.805	13.608	13.155	14.448	13.346	3.908	-0.179
PM10	OKEF1	30.74	-82.128	-0.287	0.038	22.110	16.663	20.221	19.387	3.474	-1.479
PM10	OLYM1	48.007	-122.973	-0.100	0.063	8.512	6.604	7.705	7.458	0.955	-1.347
PM10	ORPI1	31.951	-112.802	-0.017	0.934	20.487	20.155	20.861	20.295	4.345	-0.086
PM10	PASA1	48.388	-119.927	-0.030	0.807	10.017	9.452	10.477	9.720	3.396	-0.306
PM10	PEFO1	35.078	-109.769	-0.201	0.092	16.615	12.791	16.325	14.703	6.063	-1.369
PM10	PENO1	44.948	-68.648	-0.294	0.112	21.461	15.878	17.246	17.788	3.103	-1.652
PM10	PINN1	36.483	-121.157	-0.021	0.746	17.005	16.606	16.947	16.805	1.825	-0.125
PM10	PMRF1	44.528	-72.869	-0.556	0.000	17.705	7.142	13.156	12.146	3.499	-4.577
PM10	PORE1	38.122	-122.909	-0.058	0.697	24.964	23.854	25.445	24.409	3.716	-0.239
PM10	PRIS1	46.696	-68.033	-0.480	0.000	23.430	14.304	19.082	18.627	3.498	-2.579
PM10	QUCI1	39.943	-81.338	-0.690	0.000	31.842	18.736	23.917	24.944	5.119	-2.765
PM10	QURE1	42.299	-72.335	-0.758	0.000	22.080	7.684	16.475	16.019	3.657	-4.730
PM10	QUVA1	33.294	-111.286	-0.186	0.656	25.862	22.326	24.590	24.373	4.663	-0.764
PM10	RAFA1	34.734	-120.007	-0.153	0.270	23.614	20.715	22.382	22.164	2.608	-0.688
PM10	REDW1	41.561	-124.084	0.127	0.243	13.206	15.620	14.887	14.413	2.933	0.882
PM10	ROMA1	32.941	-79.657	-0.292	0.008	24.354	18.806	21.328	21.580	3.200	-1.353
PM10	ROMO1	40.278	-105.546	-0.220	0.060	14.388	10.215	12.576	12.302	2.958	-1.785
PM10	SACR1	33.46	-104.404	0.166	0.649	25.917	29.073	31.161	27.578	8.991	0.602
PM10	SAGA1	34.297	-118.028	-0.193	0.072	19.180	15.506	17.201	17.150	2.337	-1.128
PM10	SAGO1	34.194	-116.913	-0.609	0.000	24.704	13.140	20.011	18.922	4.448	-3.216
PM10	SAGU1	32.175	-110.737	-0.072	0.649	21.353	19.986	20.252	20.634	3.270	-0.349
PM10	SAMA1	30.093	-84.161	-0.390	0.000	22.889	15.471	19.251	18.985	3.018	-2.057
PM10	SAPE1	36.014	-106.845	-0.080	0.196	9.921	8.408	9.655	9.125	2.063	-0.873
PM10	SAWE1	32.249	-111.218	-0.248	0.306	28.545	23.841	26.838	25.946	4.606	-0.954
PM10	SAWT1	44.171	-114.927	0.008	0.807	11.178	11.331	12.561	11.259	5.223	0.072
PM10	SENE1	46.289	-85.95	-0.361	0.000	17.245	10.387	13.884	13.816	2.821	-2.613
PM10	SEQU1	36.489	-118.829	0.008	1.000	32.537	32.696	32.885	32.617	3.917	0.026
PM10	SHEN1	38.523	-78.435	-0.796	0.000	28.338	13.213	20.062	20.775	5.303	-3.832
PM10	SHMI1	37.304	-107.484	-0.117	0.181	17.454	15.240	16.344	16.056	2.248	-0.726
PM10	SHRO1	35.394	-82.774	-0.615	0.000	23.040	11.356	17.126	16.891	3.968	-3.641
PM10	SIAN1	34.091	-110.942	-0.392	0.038	17.827	10.385	15.901	14.889	3.710	-2.631
PM10	SIME1	55.326	-160.506	-0.109	0.161	14.318	12.241	13.183	13.170	1.607	-0.830
PM10	SIPS1	34.343	-87.339	-0.733	0.000	27.600	13.681	22.046	20.640	5.466	-3.549
PM10	SNPA1	47.422	-121.426	-0.080	0.218	9.608	8.082	8.908	8.845	1.635	-0.908
PM10	STAR1	45.225	-118.513	-0.251	0.016	17.135	12.374	15.228	14.755	3.695	-1.698



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PM10	SULA1	45.86	-114	-0.093	0.310	11.144	9.384	12.496	10.218	8.311	-0.906
PM10	SWAN1	35.451	-76.207	-0.367	0.001	22.681	15.712	19.137	18.830	2.919	-1.948
PM10	SYCA1	35.141	-111.969	-0.154	0.400	31.262	28.341	28.948	30.032	4.602	-0.512
PM10	TALL1	38.434	-96.56	-0.187	0.187	26.200	22.651	24.709	24.146	2.977	-0.774
PM10	THBA1	44.663	-105.287	-0.241	0.150	20.547	15.963	17.835	17.773	3.217	-1.357
PM10	THRO1	46.895	-103.378	-0.083	0.364	19.548	17.976	19.004	18.762	2.378	-0.441
PM10	THSI1	44.291	-122.043	0.303	0.004	10.506	16.262	16.018	13.384	8.712	2.264
PM10	TONT1	33.655	-111.107	-0.131	0.475	21.125	18.627	19.869	19.876	3.643	-0.662
PM10	TRCR1	62.315	-150.316	-0.047	0.306	6.356	5.456	6.663	5.859	1.624	-0.809
PM10	TRIN1	40.786	-122.805	-0.092	0.653	12.975	11.224	13.338	12.192	4.342	-0.756
PM10	ULBE1	47.582	-108.72	-0.052	0.650	14.944	13.962	15.153	14.453	3.527	-0.358
PM10	UPBU1	35.826	-93.203	-0.891	0.000	33.973	17.039	24.896	25.506	6.178	-3.494
PM10	VIIS1	18.336	-64.796	0.290	0.249	37.563	43.071	39.651	40.172	5.639	0.722
PM10	VILA1	40.969	-95.045	-0.388	0.058	33.160	25.795	29.035	28.896	3.370	-1.341
PM10	VOYA2	48.413	-92.829	-0.128	0.060	14.209	11.775	13.371	12.992	1.619	-0.986
PM10	WEMI1	37.659	-107.8	-0.106	0.136	9.637	7.617	9.309	8.627	2.302	-1.232
PM10	WHIT1	33.469	-105.535	-0.115	0.520	16.219	14.034	17.962	15.011	7.202	-0.766
PM10	WHPA1	46.624	-121.388	-0.007	0.948	7.493	7.355	7.722	7.424	1.965	-0.098
PM10	WHPE1	36.585	-105.452	-0.129	0.140	9.753	7.296	9.054	8.395	2.092	-1.540
PM10	WHRI1	39.154	-106.821	-0.156	0.004	9.448	6.489	8.171	7.969	1.376	-1.955
PM10	WICA1	43.558	-103.484	-0.138	0.196	14.342	11.719	13.689	13.100	2.208	-1.054
PM10	WIMO1	34.732	-98.713	-0.282	0.009	27.407	22.046	24.415	24.586	3.257	-1.148
PM10	YELL2	44.565	-110.4	-0.003	1.000	10.067	10.015	10.057	10.041	1.859	-0.027
PM10	YOSE1	37.713	-119.706	0.166	0.153	15.639	18.784	18.651	17.211	5.745	0.962
PM10	ZICA1	37.198	-113.151	-0.189	0.138	16.412	12.820	14.665	14.333	2.353	-1.319

## Appendix 6.3. IMPROVE Long-Term (1990–2019) Mass Percentile Trends

**Table 6.3.1. IMPROVE long-term (1990–2019) 10<sup>th</sup> percentile mass trends for sites that met completeness criteria (see Chapter 6). Species include sulfate ion (SO<sub>4</sub>), nitrate ion (NO<sub>3</sub>), organic carbon (OC), elemental carbon (EC), fine dust (FD), gravimetric PM<sub>2.5</sub> mass (FM), coarse mass (CM), and gravimetric PM<sub>10</sub> mass (PM<sub>10</sub>). The slope is derived from a linear trend regression, beginning and end year concentrations are based on the linear fit for year 1990 and 2019, the mean and median 10<sup>th</sup> percentile concentrations over the 1990-2019 period, standard deviation in the mean over the 1990-2019 period, and trend is the slope divided by the median concentration times 100.**

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% yr <sup>-1</sup> )
SO4	ACAD1	44.377	-68.261	-0.018	0.000	0.653	0.144	0.417	0.399	0.178	-4.402
SO4	BADL1	43.743	-101.941	-0.009	0.000	0.404	0.156	0.274	0.280	0.083	-3.049
SO4	BAND1	35.78	-106.266	-0.009	0.000	0.348	0.098	0.244	0.223	0.085	-3.861
SO4	BIBE1	29.303	-103.178	-0.016	0.000	0.686	0.232	0.486	0.459	0.150	-3.414
SO4	BLIS1	38.976	-120.103	-0.002	0.000	0.130	0.061	0.104	0.093	0.037	-2.538
SO4	BOWA1	47.947	-91.495	-0.012	0.000	0.457	0.110	0.261	0.259	0.109	-4.618
SO4	BRCA1	37.618	-112.174	-0.003	0.000	0.188	0.090	0.147	0.138	0.045	-2.456
SO4	BRID1	42.975	-109.758	-0.004	0.000	0.198	0.073	0.139	0.136	0.043	-3.166
SO4	BRIG1	39.465	-74.449	-0.045	0.000	1.721	0.406	0.973	1.018	0.413	-4.453
SO4	CANY1	38.459	-109.821	-0.009	0.000	0.363	0.102	0.254	0.232	0.095	-3.861
SO4	CHAS1	28.748	-82.555	-0.042	0.000	1.810	0.585	1.089	1.135	0.348	-3.723
SO4	CHIR1	32.009	-109.389	-0.010	0.000	0.434	0.139	0.310	0.287	0.106	-3.546
SO4	COR11	45.664	-121.001	-0.008	0.000	0.330	0.092	0.213	0.195	0.079	-4.206
SO4	CRLA1	42.896	-122.136	-0.001	0.008	0.068	0.036	0.056	0.052	0.022	-2.149
SO4	CRMO1	43.46	-113.555	-0.004	0.000	0.199	0.089	0.133	0.133	0.037	-2.844
SO4	DENA1	63.723	-148.967	-0.001	0.000	0.084	0.046	0.065	0.065	0.018	-2.067
SO4	DOSO1	39.105	-79.426	-0.051	0.000	1.713	0.241	0.967	0.926	0.472	-5.482
SO4	EVER1	25.391	-80.681	-0.016	0.000	1.080	0.621	0.797	0.795	0.146	-1.993
SO4	GICL1	33.22	-108.235	-0.009	0.000	0.344	0.072	0.227	0.189	0.087	-4.953
SO4	GLAC1	48.511	-113.997	-0.007	0.000	0.276	0.075	0.182	0.176	0.068	-3.948
SO4	GRBA1	39.005	-114.216	-0.002	0.001	0.143	0.080	0.112	0.108	0.030	-2.001
SO4	GRCA2	36.066	-112.154	-0.006	0.000	0.253	0.080	0.180	0.164	0.068	-3.637
SO4	GRSA1	37.725	-105.519	-0.006	0.000	0.252	0.084	0.188	0.168	0.062	-3.451
SO4	GRSM1	35.633	-83.942	-0.047	0.000	1.804	0.444	1.021	1.124	0.435	-4.172
SO4	GUMO1	31.833	-104.809	-0.012	0.000	0.514	0.172	0.360	0.343	0.121	-3.432
SO4	HAVO1	19.431	-155.258	-0.003	0.080	0.227	0.151	0.181	0.177	0.032	-1.486
SO4	JARB1	41.893	-115.426	-0.002	0.006	0.118	0.073	0.100	0.095	0.020	-1.634
SO4	LAVO1	40.54	-121.577	0.000	0.527	0.081	0.074	0.073	0.077	0.017	-0.326
SO4	LYBR1	43.148	-73.127	-0.015	0.000	0.504	0.083	0.361	0.330	0.120	-4.402
SO4	MACA1	37.132	-86.148	-0.061	0.000	2.419	0.646	1.343	1.471	0.517	-4.154

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	MEVE1	37.198	-108.491	-0.008	0.000	0.321	0.098	0.221	0.210	0.077	-3.678
SO4	MOOS1	45.126	-67.266	-0.017	0.000	0.664	0.162	0.362	0.370	0.133	-4.685
SO4	MORA1	46.758	-122.124	-0.002	0.000	0.118	0.047	0.089	0.081	0.031	-2.997
SO4	MOZI1	40.538	-106.677	-0.005	0.000	0.224	0.077	0.156	0.135	0.056	-3.746
SO4	OKEF1	30.74	-82.128	-0.043	0.000	1.831	0.585	1.127	1.165	0.377	-3.689
SO4	PEFO1	35.078	-109.769	-0.009	0.000	0.389	0.120	0.263	0.254	0.088	-3.642
SO4	PINN1	36.483	-121.157	-0.006	0.000	0.335	0.161	0.262	0.248	0.074	-2.424
SO4	PORE1	38.122	-122.909	-0.007	0.000	0.435	0.229	0.338	0.332	0.074	-2.137
SO4	REDW1	41.561	-124.084	-0.003	0.000	0.163	0.086	0.131	0.125	0.035	-2.116
SO4	ROMA1	32.941	-79.657	-0.051	0.000	2.036	0.569	1.124	1.176	0.380	-4.302
SO4	ROMO1	40.278	-105.546	-0.004	0.000	0.192	0.089	0.148	0.139	0.041	-2.563
SO4	SAGO1	34.194	-116.913	-0.003	0.000	0.185	0.110	0.151	0.145	0.043	-1.795
SO4	SAGU1	32.175	-110.737	-0.012	0.000	0.506	0.163	0.329	0.287	0.124	-4.113
SO4	SAWT1	44.171	-114.927	-0.002	0.000	0.114	0.050	0.076	0.075	0.022	-2.922
SO4	SEQU1	36.489	-118.829	-0.005	0.024	0.294	0.163	0.242	0.224	0.089	-2.029
SO4	SHEN1	38.523	-78.435	-0.040	0.000	1.467	0.308	0.898	0.887	0.387	-4.505
SO4	SHRO1	35.394	-82.774	-0.026	0.000	0.885	0.143	0.446	0.437	0.212	-5.853
SO4	SIPS1	34.343	-87.339	-0.062	0.000	2.239	0.438	1.205	1.245	0.536	-4.985
SO4	SNPA1	47.422	-121.426	-0.006	0.000	0.193	0.029	0.099	0.094	0.053	-6.007
SO4	SULA1	45.86	-114	-0.003	0.000	0.137	0.047	0.085	0.083	0.028	-3.724
SO4	THSI1	44.291	-122.043	-0.001	0.193	0.062	0.040	0.051	0.050	0.015	-1.583
SO4	TONT1	33.655	-111.107	-0.011	0.000	0.458	0.150	0.338	0.299	0.103	-3.556
SO4	UPBU1	35.826	-93.203	-0.026	0.000	1.046	0.295	0.654	0.645	0.248	-4.014
SO4	WEMI1	37.659	-107.8	-0.004	0.000	0.191	0.086	0.148	0.139	0.047	-2.606
SO4	WHRI1	39.154	-106.821	-0.003	0.000	0.177	0.078	0.117	0.117	0.033	-2.919
SO4	YELL3	44.565	-110.4	-0.005	0.000	0.211	0.080	0.148	0.145	0.045	-3.096
SO4	YOSE1	37.713	-119.706	-0.001	0.044	0.119	0.086	0.109	0.102	0.027	-1.125
NO3	ACAD1	44.377	-68.261	-0.002	0.000	0.075	0.022	0.049	0.044	0.019	-4.093
NO3	BADL1	43.743	-101.941	0.000	0.709	0.053	0.054	0.055	0.054	0.010	0.060
NO3	BAND1	35.78	-106.266	-0.001	0.002	0.064	0.041	0.051	0.051	0.012	-1.556
NO3	BIBE1	29.303	-103.178	0.000	0.513	0.052	0.047	0.051	0.049	0.010	-0.337
NO3	BLIS1	38.976	-120.103	-0.001	0.000	0.050	0.019	0.034	0.032	0.012	-3.445
NO3	BOWA1	47.947	-91.495	-0.001	0.003	0.031	0.013	0.024	0.020	0.011	-3.115
NO3	BRCA1	37.618	-112.174	0.000	0.106	0.036	0.031	0.035	0.033	0.008	-0.519
NO3	BRID1	42.975	-109.758	0.000	0.870	0.023	0.024	0.025	0.023	0.007	0.045
NO3	BRIG1	39.465	-74.449	-0.006	0.000	0.283	0.114	0.197	0.178	0.057	-3.279
NO3	CANY1	38.459	-109.821	0.000	0.001	0.049	0.035	0.045	0.041	0.010	-1.171

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
NO3	CHAS1	28.748	-82.555	-0.003	0.003	0.195	0.114	0.152	0.143	0.032	-1.957
NO3	CHIR1	32.009	-109.389	0.000	0.427	0.037	0.035	0.038	0.036	0.009	-0.174
NO3	CRLA1	42.896	-122.136	0.000	0.960	0.011	0.011	0.011	0.011	0.004	0.029
NO3	DENA1	63.723	-148.967	0.000	0.559	0.003	0.004	0.004	0.004	0.004	1.536
NO3	DOSO1	39.105	-79.426	-0.002	0.000	0.115	0.051	0.081	0.075	0.024	-2.950
NO3	GICL1	33.22	-108.235	0.000	0.116	0.031	0.021	0.025	0.025	0.007	-1.466
NO3	GLAC1	48.511	-113.997	-0.001	0.000	0.064	0.029	0.045	0.043	0.014	-2.797
NO3	GRBA1	39.005	-114.216	0.000	0.121	0.028	0.017	0.022	0.021	0.007	-1.819
NO3	GRCA2	36.066	-112.154	0.000	0.117	0.034	0.028	0.031	0.030	0.006	-0.739
NO3	GRSA1	37.725	-105.519	0.000	0.023	0.041	0.031	0.037	0.035	0.009	-1.007
NO3	GRSM1	35.633	-83.942	-0.003	0.000	0.129	0.053	0.089	0.085	0.025	-3.101
NO3	GUMO1	31.833	-104.809	0.000	0.779	0.067	0.062	0.067	0.064	0.012	-0.228
NO3	HAVO1	19.431	-155.258	0.000	1.000	0.016	0.016	0.015	0.016	0.007	-0.020
NO3	JARB1	41.893	-115.426	0.000	0.283	0.017	0.014	0.015	0.015	0.004	-0.594
NO3	LAVO1	40.54	-121.577	0.000	0.916	0.015	0.015	0.014	0.015	0.008	0.170
NO3	MACA1	37.132	-86.148	-0.004	0.000	0.203	0.092	0.144	0.134	0.041	-2.862
NO3	MEVE1	37.198	-108.491	-0.001	0.047	0.050	0.036	0.043	0.042	0.013	-1.204
NO3	MORA1	46.758	-122.124	-0.001	0.000	0.026	0.008	0.018	0.015	0.008	-4.257
NO3	OKEF1	30.74	-82.128	-0.003	0.000	0.161	0.077	0.119	0.109	0.030	-2.667
NO3	PEFO1	35.078	-109.769	-0.001	0.002	0.065	0.045	0.057	0.053	0.014	-1.306
NO3	PINN1	36.483	-121.157	-0.004	0.000	0.215	0.086	0.154	0.139	0.052	-3.186
NO3	PORE1	38.122	-122.909	-0.002	0.000	0.146	0.080	0.115	0.107	0.029	-2.136
NO3	REDW1	41.561	-124.084	-0.001	0.000	0.053	0.022	0.037	0.035	0.013	-3.090
NO3	ROMO1	40.278	-105.546	0.000	0.243	0.018	0.023	0.021	0.021	0.007	0.906
NO3	SAGO1	34.194	-116.913	-0.003	0.000	0.111	0.017	0.080	0.054	0.054	-6.027
NO3	SAGU1	32.175	-110.737	-0.001	0.067	0.112	0.086	0.096	0.096	0.016	-0.933
NO3	SEQU1	36.489	-118.829	-0.005	0.014	0.270	0.137	0.193	0.187	0.073	-2.453
NO3	SHEN1	38.523	-78.435	-0.003	0.000	0.162	0.064	0.121	0.104	0.042	-3.220
NO3	SIPS1	34.343	-87.339	-0.005	0.000	0.188	0.054	0.123	0.105	0.045	-4.434
NO3	THSI1	44.291	-122.043	0.000	0.469	0.009	0.007	0.009	0.008	0.005	-0.818
NO3	TONT1	33.655	-111.107	-0.001	0.000	0.075	0.055	0.064	0.063	0.011	-1.060
NO3	UPBU1	35.826	-93.203	-0.004	0.000	0.206	0.094	0.130	0.137	0.037	-2.833
NO3	WEMI1	37.659	-107.8	0.000	0.148	0.024	0.019	0.022	0.021	0.006	-0.710
NO3	YELL3	44.565	-110.4	0.000	0.674	0.029	0.027	0.028	0.028	0.008	-0.275
NO3	YOSE1	37.713	-119.706	0.000	0.304	0.027	0.021	0.025	0.023	0.009	-1.011
OC	ACAD1	44.377	-68.261	-0.007	0.000	0.432	0.221	0.321	0.326	0.081	-2.231
OC	BADL1	43.743	-101.941	-0.006	0.000	0.364	0.202	0.277	0.283	0.090	-1.973

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
OC	BAND1	35.78	-106.266	-0.007	0.000	0.421	0.214	0.305	0.318	0.078	-2.252
OC	BIBE1	29.303	-103.178	-0.006	0.001	0.341	0.162	0.282	0.251	0.086	-2.456
OC	BLIS1	38.976	-120.103	-0.005	0.000	0.242	0.092	0.186	0.162	0.078	-3.200
OC	BOWA1	47.947	-91.495	-0.009	0.000	0.334	0.087	0.217	0.189	0.086	-4.507
OC	BRCA1	37.618	-112.174	-0.004	0.000	0.214	0.086	0.144	0.148	0.048	-2.995
OC	BRID1	42.975	-109.758	-0.005	0.000	0.185	0.042	0.117	0.114	0.056	-4.363
OC	BRIG1	39.465	-74.449	-0.011	0.000	0.714	0.397	0.557	0.550	0.123	-1.989
OC	CANY1	38.459	-109.821	-0.005	0.000	0.231	0.081	0.162	0.156	0.056	-3.312
OC	CHAS1	28.748	-82.555	-0.014	0.000	1.013	0.609	0.813	0.790	0.155	-1.763
OC	CHIR1	32.009	-109.389	-0.005	0.000	0.273	0.119	0.212	0.196	0.069	-2.705
OC	CORI1	45.664	-121.001	-0.010	0.000	0.557	0.272	0.400	0.390	0.096	-2.517
OC	CRLA1	42.896	-122.136	-0.004	0.000	0.149	0.019	0.092	0.077	0.050	-5.819
OC	DENA1	63.723	-148.967	-0.002	0.031	0.089	0.038	0.069	0.064	0.034	-2.741
OC	DOSO1	39.105	-79.426	-0.019	0.000	0.841	0.278	0.558	0.540	0.184	-3.591
OC	GICL1	33.22	-108.235	-0.006	0.000	0.308	0.132	0.214	0.208	0.059	-2.914
OC	GLAC1	48.511	-113.997	-0.013	0.000	0.667	0.299	0.483	0.483	0.145	-2.627
OC	GRBA1	39.005	-114.216	-0.008	0.000	0.332	0.092	0.206	0.200	0.081	-4.137
OC	GRCA2	36.066	-112.154	-0.006	0.000	0.190	0.026	0.129	0.105	0.075	-5.394
OC	GRSA1	37.725	-105.519	-0.004	0.000	0.304	0.202	0.273	0.253	0.056	-1.388
OC	GRSM1	35.633	-83.942	-0.018	0.000	0.895	0.363	0.667	0.629	0.191	-2.913
OC	GUMO1	31.833	-104.809	-0.007	0.000	0.385	0.186	0.276	0.285	0.075	-2.407
OC	HAVO1	19.431	-155.258	0.002	0.365	-0.041	0.012	0.022	-0.006	0.084	-30.336
OC	JARB1	41.893	-115.426	-0.005	0.000	0.183	0.034	0.105	0.103	0.057	-4.987
OC	LAVO1	40.54	-121.577	-0.007	0.000	0.233	0.023	0.153	0.128	0.083	-5.640
OC	MACA1	37.132	-86.148	-0.015	0.000	0.966	0.528	0.754	0.732	0.150	-2.063
OC	MEVE1	37.198	-108.491	-0.005	0.000	0.266	0.121	0.205	0.193	0.068	-2.586
OC	MOOS1	45.126	-67.266	-0.011	0.000	0.513	0.184	0.348	0.320	0.092	-3.545
OC	MORA1	46.758	-122.124	-0.013	0.000	0.368	0.002	0.232	0.179	0.128	-7.071
OC	MOZI1	40.538	-106.677	-0.004	0.001	0.177	0.069	0.106	0.112	0.040	-3.339
OC	OKEF1	30.74	-82.128	-0.013	0.000	0.997	0.615	0.855	0.793	0.149	-1.660
OC	PEFO1	35.078	-109.769	-0.010	0.000	0.418	0.123	0.286	0.271	0.106	-3.771
OC	PINN1	36.483	-121.157	-0.006	0.000	0.450	0.264	0.368	0.357	0.083	-1.802
OC	PORE1	38.122	-122.909	-0.005	0.001	0.184	0.036	0.131	0.110	0.071	-4.649
OC	REDW1	41.561	-124.084	-0.005	0.000	0.217	0.084	0.159	0.151	0.057	-3.037
OC	ROMA1	32.941	-79.657	-0.011	0.001	0.749	0.423	0.591	0.558	0.129	-2.013
OC	ROMO1	40.278	-105.546	-0.005	0.000	0.225	0.074	0.156	0.147	0.059	-3.559
OC	SAGO1	34.194	-116.913	-0.009	0.000	0.372	0.120	0.243	0.237	0.093	-3.674

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
OC	SAGU1	32.175	-110.737	-0.005	0.006	0.430	0.279	0.344	0.333	0.065	-1.559
OC	SEQU1	36.489	-118.829	-0.010	0.006	0.746	0.443	0.576	0.574	0.149	-1.824
OC	SHEN1	38.523	-78.435	-0.012	0.000	0.574	0.226	0.427	0.400	0.124	-3.006
OC	SHRO1	35.394	-82.774	-0.008	0.009	0.457	0.223	0.308	0.320	0.106	-2.528
OC	SIPS1	34.343	-87.339	-0.022	0.000	1.178	0.534	0.885	0.823	0.214	-2.697
OC	SNPA1	47.422	-121.426	-0.006	0.000	0.219	0.035	0.122	0.108	0.070	-5.844
OC	THSI1	44.291	-122.043	-0.004	0.001	0.118	0.011	0.070	0.057	0.047	-6.435
OC	TONT1	33.655	-111.107	-0.009	0.000	0.498	0.244	0.361	0.366	0.090	-2.392
OC	UPBU1	35.826	-93.203	-0.013	0.000	0.810	0.438	0.603	0.611	0.142	-2.100
OC	WEMI1	37.659	-107.8	-0.004	0.000	0.243	0.119	0.169	0.181	0.051	-2.373
OC	YELL3	44.565	-110.4	-0.007	0.000	0.285	0.071	0.179	0.178	0.090	-4.148
OC	YOSE1	37.713	-119.706	-0.003	0.112	0.240	0.144	0.213	0.192	0.092	-1.730
EC	ACAD1	44.377	-68.261	-0.004	0.000	0.116	-0.002	0.065	0.057	0.038	-7.166
EC	BADL1	43.743	-101.941	-0.001	0.000	0.063	0.027	0.043	0.045	0.016	-2.751
EC	BAND1	35.78	-106.266	-0.002	0.000	0.084	0.029	0.056	0.057	0.023	-3.322
EC	BIBE1	29.303	-103.178	-0.001	0.000	0.056	0.026	0.043	0.041	0.016	-2.519
EC	BLIS1	38.976	-120.103	-0.002	0.000	0.053	0.004	0.030	0.027	0.018	-6.278
EC	BOWA1	47.947	-91.495	-0.001	0.000	0.049	0.009	0.030	0.026	0.016	-5.431
EC	BRCA1	37.618	-112.174	-0.001	0.000	0.038	0.001	0.022	0.019	0.013	-6.846
EC	BRID1	42.975	-109.758	0.000	0.205	0.017	0.004	0.010	0.010	0.012	-4.262
EC	BRIG1	39.465	-74.449	-0.007	0.000	0.239	0.044	0.133	0.138	0.061	-4.875
EC	CANY1	38.459	-109.821	-0.001	0.000	0.045	0.006	0.030	0.026	0.019	-5.195
EC	CHAS1	28.748	-82.555	-0.008	0.000	0.295	0.073	0.171	0.172	0.069	-4.447
EC	CHIR1	32.009	-109.389	-0.002	0.000	0.058	0.014	0.039	0.036	0.016	-4.198
EC	CORI1	45.664	-121.001	-0.005	0.000	0.161	0.027	0.088	0.083	0.041	-5.575
EC	CRLA1	42.896	-122.136	-0.002	0.000	0.052	0.000	0.026	0.023	0.016	-7.847
EC	DENA1	63.723	-148.967	0.000	0.005	0.011	0.000	0.005	0.006	0.008	-6.306
EC	DOSO1	39.105	-79.426	-0.006	0.000	0.228	0.047	0.131	0.131	0.056	-4.774
EC	GICL1	33.22	-108.235	-0.002	0.000	0.073	0.003	0.037	0.033	0.020	-7.276
EC	GLAC1	48.511	-113.997	-0.002	0.003	0.127	0.066	0.097	0.097	0.030	-2.164
EC	GRBA1	39.005	-114.216	-0.002	0.000	0.059	0.005	0.029	0.029	0.018	-6.414
EC	GRCA2	36.066	-112.154	-0.001	0.000	0.046	0.005	0.026	0.025	0.017	-5.769
EC	GRSA1	37.725	-105.519	-0.001	0.000	0.048	0.015	0.034	0.032	0.013	-3.583
EC	GRSM1	35.633	-83.942	-0.006	0.000	0.247	0.078	0.156	0.162	0.062	-3.587
EC	GUMO1	31.833	-104.809	-0.001	0.097	0.051	0.029	0.041	0.040	0.016	-1.855
EC	HAVO1	19.431	-155.258	0.000	0.006	0.009	-0.001	0.001	0.002	0.004	-15.455
EC	JARB1	41.893	-115.426	0.000	0.096	0.014	0.004	0.009	0.009	0.008	-3.867

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
EC	LAVO1	40.54	-121.577	-0.001	0.000	0.036	0.002	0.021	0.019	0.012	-6.206
EC	MACA1	37.132	-86.148	-0.006	0.000	0.292	0.119	0.194	0.199	0.059	-2.999
EC	MEVE1	37.198	-108.491	-0.001	0.000	0.047	0.008	0.036	0.027	0.023	-4.866
EC	MOOS1	45.126	-67.266	-0.004	0.000	0.118	0.003	0.056	0.051	0.031	-7.792
EC	MORA1	46.758	-122.124	-0.002	0.000	0.068	0.005	0.036	0.036	0.021	-6.054
EC	MOZI1	40.538	-106.677	-0.001	0.000	0.039	0.000	0.019	0.015	0.011	-8.843
EC	OKEF1	30.74	-82.128	-0.005	0.000	0.207	0.055	0.130	0.126	0.054	-4.168
EC	PEFO1	35.078	-109.769	-0.003	0.000	0.128	0.038	0.080	0.083	0.035	-3.724
EC	PINN1	36.483	-121.157	-0.003	0.000	0.100	0.015	0.062	0.057	0.031	-5.117
EC	PORE1	38.122	-122.909	0.000	0.568	0.005	0.002	0.003	0.004	0.010	-2.667
EC	REDW1	41.561	-124.084	-0.001	0.002	0.020	0.002	0.012	0.011	0.009	-5.456
EC	ROMA1	32.941	-79.657	-0.004	0.000	0.141	0.013	0.087	0.066	0.041	-6.643
EC	ROMO1	40.278	-105.546	-0.001	0.001	0.037	0.007	0.025	0.022	0.017	-4.742
EC	SAGO1	34.194	-116.913	-0.004	0.000	0.132	0.008	0.068	0.066	0.044	-6.529
EC	SAGU1	32.175	-110.737	-0.003	0.000	0.120	0.032	0.080	0.064	0.030	-4.785
EC	SEQU1	36.489	-118.829	-0.004	0.000	0.175	0.046	0.104	0.102	0.045	-4.408
EC	SHEN1	38.523	-78.435	-0.005	0.000	0.197	0.054	0.117	0.126	0.047	-3.931
EC	SHRO1	35.394	-82.774	-0.003	0.000	0.112	0.015	0.061	0.055	0.030	-6.130
EC	SIPS1	34.343	-87.339	-0.009	0.000	0.332	0.071	0.200	0.188	0.084	-4.781
EC	SNPA1	47.422	-121.426	-0.003	0.000	0.099	0.004	0.043	0.041	0.026	-7.882
EC	THSI1	44.291	-122.043	-0.001	0.000	0.018	-0.001	0.010	0.007	0.009	-9.091
EC	TONT1	33.655	-111.107	-0.003	0.000	0.097	0.022	0.068	0.058	0.031	-4.487
EC	UPBU1	35.826	-93.203	-0.004	0.000	0.187	0.069	0.119	0.124	0.040	-3.276
EC	WEMI1	37.659	-107.8	-0.002	0.000	0.083	0.020	0.044	0.051	0.022	-4.230
EC	YELL3	44.565	-110.4	-0.001	0.000	0.032	0.003	0.020	0.018	0.012	-5.587
EC	YOSE1	37.713	-119.706	-0.002	0.000	0.055	0.006	0.033	0.031	0.018	-5.491
Fine Dust	ACAD1	44.377	-68.261	-0.002	0.000	0.081	0.020	0.055	0.051	0.026	-4.162
Fine Dust	BADL1	43.743	-101.941	-0.003	0.005	0.209	0.137	0.179	0.173	0.045	-1.450
Fine Dust	BAND1	35.78	-106.266	-0.001	0.276	0.150	0.121	0.144	0.135	0.038	-0.743
Fine Dust	BIBE1	29.303	-103.178	-0.002	0.402	0.254	0.193	0.238	0.224	0.095	-0.941
Fine Dust	BLIS1	38.976	-120.103	-0.002	0.000	0.098	0.052	0.070	0.073	0.019	-2.200
Fine Dust	BOWA1	47.947	-91.495	-0.003	0.000	0.105	0.026	0.057	0.060	0.025	-4.511
Fine Dust	BRCA1	37.618	-112.174	-0.002	0.006	0.112	0.064	0.086	0.088	0.028	-1.903
Fine Dust	BRID1	42.975	-109.758	-0.002	0.000	0.080	0.034	0.057	0.057	0.020	-2.800
Fine Dust	BRIG1	39.465	-74.449	-0.005	0.000	0.233	0.102	0.153	0.163	0.050	-2.768
Fine Dust	CANY1	38.459	-109.821	-0.002	0.013	0.154	0.089	0.124	0.121	0.037	-1.851
Fine Dust	CHAS1	28.748	-82.555	-0.004	0.000	0.241	0.119	0.176	0.170	0.054	-2.478

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
Fine Dust	CHIR1	32.009	-109.389	0.000	0.735	0.182	0.169	0.195	0.176	0.071	-0.247
Fine Dust	COR11	45.664	-121.001	-0.003	0.007	0.231	0.141	0.181	0.178	0.058	-1.740
Fine Dust	CRLA1	42.896	-122.136	-0.001	0.000	0.056	0.023	0.042	0.038	0.019	-2.992
Fine Dust	CRMO1	43.46	-113.555	-0.003	0.000	0.127	0.035	0.075	0.076	0.028	-4.167
Fine Dust	DENA1	63.723	-148.967	-0.002	0.000	0.066	0.004	0.038	0.035	0.023	-6.019
Fine Dust	DOSO1	39.105	-79.426	-0.004	0.002	0.166	0.055	0.110	0.107	0.050	-3.582
Fine Dust	EVER1	25.391	-80.681	-0.001	0.016	0.122	0.082	0.103	0.099	0.025	-1.394
Fine Dust	GICL1	33.22	-108.235	-0.001	0.179	0.140	0.098	0.125	0.116	0.036	-1.248
Fine Dust	GLAC1	48.511	-113.997	-0.003	0.000	0.155	0.070	0.102	0.112	0.033	-2.595
Fine Dust	GRBA1	39.005	-114.216	-0.002	0.006	0.111	0.065	0.082	0.086	0.028	-1.835
Fine Dust	GRCA2	36.066	-112.154	-0.001	0.154	0.113	0.086	0.107	0.099	0.034	-0.939
Fine Dust	GRSA1	37.725	-105.519	-0.001	0.326	0.178	0.148	0.165	0.163	0.051	-0.635
Fine Dust	GRSM1	35.633	-83.942	-0.004	0.004	0.193	0.073	0.123	0.133	0.058	-3.099
Fine Dust	GUMO1	31.833	-104.809	0.005	0.010	0.204	0.349	0.291	0.277	0.122	1.800
Fine Dust	HALE1	20.809	-156.282	-0.001	0.305	0.063	0.046	0.054	0.056	0.013	-1.047
Fine Dust	HAVO1	19.431	-155.258	-0.001	0.000	0.031	0.011	0.019	0.018	0.008	-3.935
Fine Dust	JARB1	41.893	-115.426	-0.001	0.006	0.084	0.053	0.067	0.068	0.019	-1.529
Fine Dust	LAVO1	40.54	-121.577	-0.002	0.000	0.074	0.026	0.053	0.050	0.024	-3.314
Fine Dust	LYBR1	43.148	-73.127	-0.002	0.011	0.073	0.017	0.054	0.050	0.026	-3.863
Fine Dust	MACA1	37.132	-86.148	-0.007	0.003	0.330	0.141	0.208	0.229	0.074	-2.837
Fine Dust	MEVE1	37.198	-108.491	-0.001	0.170	0.145	0.108	0.139	0.126	0.051	-1.020
Fine Dust	MOOS1	45.126	-67.266	-0.003	0.000	0.106	0.033	0.058	0.063	0.025	-3.958
Fine Dust	MORA1	46.758	-122.124	-0.001	0.000	0.044	0.007	0.027	0.025	0.014	-5.244
Fine Dust	MOZI1	40.538	-106.677	-0.003	0.000	0.113	0.018	0.061	0.056	0.029	-5.901
Fine Dust	OKEF1	30.74	-82.128	-0.003	0.004	0.212	0.116	0.156	0.161	0.054	-2.076
Fine Dust	PEFO1	35.078	-109.769	-0.001	0.170	0.224	0.182	0.225	0.203	0.065	-0.709
Fine Dust	PINN1	36.483	-121.157	-0.001	0.048	0.104	0.080	0.090	0.092	0.017	-0.910
Fine Dust	PORE1	38.122	-122.909	-0.001	0.000	0.074	0.036	0.057	0.055	0.017	-2.380
Fine Dust	REDW1	41.561	-124.084	-0.001	0.000	0.045	0.012	0.032	0.028	0.014	-3.909
Fine Dust	ROMA1	32.941	-79.657	-0.003	0.015	0.180	0.089	0.140	0.127	0.051	-2.497
Fine Dust	ROMO1	40.278	-105.546	-0.002	0.003	0.137	0.071	0.106	0.103	0.037	-2.229
Fine Dust	SAGO1	34.194	-116.913	-0.004	0.000	0.191	0.087	0.141	0.135	0.052	-2.659
Fine Dust	SAGU1	32.175	-110.737	-0.007	0.248	0.531	0.328	0.457	0.402	0.186	-1.741
Fine Dust	SAWT1	44.171	-114.927	-0.001	0.000	0.076	0.034	0.052	0.052	0.018	-2.730
Fine Dust	SEQU1	36.489	-118.829	-0.003	0.000	0.142	0.068	0.109	0.103	0.034	-2.463
Fine Dust	SHEN1	38.523	-78.435	-0.004	0.000	0.155	0.045	0.098	0.100	0.044	-3.800
Fine Dust	SHRO1	35.394	-82.774	-0.004	0.000	0.152	0.026	0.076	0.076	0.043	-5.704



Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
Fine Dust	SIPS1	34.343	-87.339	-0.006	0.000	0.321	0.133	0.206	0.217	0.074	-2.988
Fine Dust	SNPA1	47.422	-121.426	-0.001	0.000	0.043	0.005	0.024	0.021	0.013	-6.181
Fine Dust	SULA1	45.86	-114	-0.002	0.000	0.073	0.018	0.043	0.041	0.019	-4.572
Fine Dust	THSI1	44.291	-122.043	-0.001	0.000	0.032	0.003	0.021	0.016	0.012	-6.245
Fine Dust	TONT1	33.655	-111.107	0.000	0.970	0.225	0.224	0.243	0.224	0.079	-0.012
Fine Dust	UPBU1	35.826	-93.203	-0.004	0.013	0.236	0.113	0.153	0.170	0.054	-2.499
Fine Dust	VIIS1	18.336	-64.796	-0.001	0.346	0.088	0.073	0.080	0.080	0.025	-0.653
Fine Dust	WEMI1	37.659	-107.8	-0.002	0.000	0.154	0.086	0.122	0.120	0.030	-1.951
Fine Dust	WHRI1	39.154	-106.821	-0.001	0.128	0.093	0.069	0.077	0.079	0.018	-1.047
Fine Dust	YELL3	44.565	-110.4	-0.003	0.000	0.088	0.007	0.054	0.047	0.033	-5.936
Fine Dust	YOSE1	37.713	-119.706	-0.002	0.000	0.087	0.042	0.067	0.065	0.021	-2.423
FM	ACAD1	44.377	-68.261	-0.049	0.000	2.385	0.951	1.693	1.668	0.635	-2.965
FM	BADL1	43.743	-101.941	-0.027	0.000	1.724	0.954	1.421	1.339	0.329	-1.984
FM	BAND1	35.78	-106.266	-0.029	0.000	1.754	0.914	1.325	1.334	0.485	-2.170
FM	BIBE1	29.303	-103.178	-0.035	0.000	2.512	1.494	2.135	2.003	0.589	-1.752
FM	BLIS1	38.976	-120.103	-0.015	0.002	0.845	0.423	0.697	0.620	0.257	-2.347
FM	BOWA1	47.947	-91.495	-0.040	0.000	1.911	0.762	1.304	1.257	0.390	-3.150
FM	BRCA1	37.618	-112.174	-0.019	0.000	0.880	0.340	0.677	0.601	0.219	-3.098
FM	BRID1	42.975	-109.758	-0.014	0.000	0.767	0.364	0.573	0.565	0.150	-2.458
FM	BRIG1	39.465	-74.449	-0.121	0.000	5.944	2.440	3.902	4.071	1.087	-2.968
FM	CANY1	38.459	-109.821	-0.026	0.000	1.493	0.725	1.163	1.109	0.305	-2.389
FM	CHAS1	28.748	-82.555	-0.102	0.000	6.314	3.348	4.702	4.576	0.918	-2.235
FM	CHIR1	32.009	-109.389	-0.027	0.000	1.797	1.008	1.429	1.402	0.456	-1.940
FM	CORI1	45.664	-121.001	-0.037	0.001	2.442	1.375	1.834	1.798	0.400	-2.046
FM	CRLA1	42.896	-122.136	-0.013	0.000	0.631	0.242	0.446	0.403	0.174	-3.323
FM	CRMO1	43.46	-113.555	-0.023	0.000	1.138	0.474	0.855	0.772	0.341	-2.966
FM	DENA1	63.723	-148.967	-0.012	0.003	0.472	0.131	0.337	0.301	0.179	-3.904
FM	DOSO1	39.105	-79.426	-0.144	0.000	5.462	1.277	3.257	3.225	1.270	-4.475
FM	EVER1	25.391	-80.681	-0.047	0.000	4.182	2.805	3.610	3.374	0.834	-1.407
FM	GICL1	33.22	-108.235	-0.031	0.000	1.569	0.668	1.154	1.056	0.308	-2.942
FM	GLAC1	48.511	-113.997	-0.043	0.000	2.228	0.972	1.625	1.600	0.453	-2.707
FM	GRBA1	39.005	-114.216	-0.025	0.000	1.045	0.318	0.759	0.644	0.277	-3.894
FM	GRCA2	36.066	-112.154	-0.020	0.000	1.071	0.501	0.849	0.776	0.317	-2.530
FM	GRSA1	37.725	-105.519	-0.020	0.000	1.532	0.954	1.222	1.243	0.264	-1.604
FM	GRSM1	35.633	-83.942	-0.117	0.000	5.404	2.005	3.529	3.704	1.149	-3.165
FM	GUMO1	31.833	-104.809	-0.014	0.048	2.115	1.702	1.944	1.908	0.386	-0.747
FM	HALE1	20.809	-156.282	-0.010	0.080	1.248	0.948	1.129	1.134	0.147	-0.913

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
FM	HAVO1	19.431	-155.258	0.000	0.933	0.717	0.709	0.705	0.712	0.199	-0.039
FM	JARB1	41.893	-115.426	-0.012	0.000	0.720	0.376	0.562	0.542	0.150	-2.187
FM	LAVO1	40.54	-121.577	-0.009	0.016	0.671	0.415	0.545	0.543	0.200	-1.626
FM	MACA1	37.132	-86.148	-0.139	0.000	7.021	2.980	4.625	4.861	1.196	-2.867
FM	MEVE1	37.198	-108.491	-0.027	0.000	1.512	0.719	1.112	1.116	0.373	-2.450
FM	MOOS1	45.126	-67.266	-0.052	0.000	2.524	1.004	1.751	1.633	0.453	-3.209
FM	MORA1	46.758	-122.124	-0.022	0.000	1.133	0.482	0.937	0.796	0.326	-2.819
FM	MOZI1	40.538	-106.677	-0.016	0.000	0.821	0.347	0.597	0.535	0.172	-3.057
FM	OKEF1	30.74	-82.128	-0.086	0.000	5.701	3.193	4.433	4.361	0.871	-1.984
FM	PEFO1	35.078	-109.769	-0.027	0.000	1.857	1.062	1.463	1.459	0.407	-1.880
FM	PINN1	36.483	-121.157	-0.030	0.003	2.293	1.414	1.936	1.854	0.536	-1.635
FM	PORE1	38.122	-122.909	-0.048	0.000	2.874	1.493	2.253	2.183	0.520	-2.181
FM	REDW1	41.561	-124.084	-0.032	0.000	1.492	0.565	1.129	1.029	0.377	-3.110
FM	ROMA1	32.941	-79.657	-0.100	0.000	5.672	2.767	4.321	3.969	1.008	-2.524
FM	ROMO1	40.278	-105.546	-0.015	0.000	0.865	0.421	0.670	0.635	0.247	-2.411
FM	SAGO1	34.194	-116.913	-0.039	0.000	1.536	0.407	1.150	0.933	0.516	-4.174
FM	SAGU1	32.175	-110.737	-0.042	0.002	3.001	1.791	2.207	2.229	0.700	-1.873
FM	SAWT1	44.171	-114.927	-0.025	0.000	1.121	0.396	0.759	0.708	0.224	-3.531
FM	SEQU1	36.489	-118.829	-0.039	0.013	2.343	1.216	1.978	1.741	0.690	-2.232
FM	SHEN1	38.523	-78.435	-0.092	0.000	4.328	1.664	2.846	2.996	0.926	-3.065
FM	SHRO1	35.394	-82.774	-0.062	0.000	2.524	0.726	1.498	1.439	0.586	-4.306
FM	SIPS1	34.343	-87.339	-0.166	0.000	7.110	2.290	4.660	4.450	1.531	-3.734
FM	SNPA1	47.422	-121.426	-0.035	0.000	1.187	0.171	0.674	0.591	0.318	-5.928
FM	SULA1	45.86	-114	-0.016	0.000	0.698	0.227	0.453	0.430	0.142	-3.781
FM	THSI1	44.291	-122.043	-0.010	0.067	0.485	0.200	0.365	0.323	0.180	-3.048
FM	TONT1	33.655	-111.107	-0.028	0.000	2.349	1.526	1.835	1.923	0.476	-1.476
FM	UPBU1	35.826	-93.203	-0.081	0.000	4.240	1.893	2.989	2.985	0.753	-2.711
FM	VIIS1	18.336	-64.796	-0.006	0.476	2.532	2.357	2.407	2.435	0.378	-0.248
FM	WEMI1	37.659	-107.8	-0.020	0.000	1.066	0.496	0.815	0.781	0.278	-2.516
FM	WHRI1	39.154	-106.821	-0.011	0.000	0.687	0.355	0.534	0.498	0.145	-2.294
FM	YELL3	44.565	-110.4	-0.024	0.000	0.989	0.281	0.663	0.623	0.260	-3.915
FM	YOSE1	37.713	-119.706	-0.015	0.003	0.872	0.445	0.711	0.658	0.233	-2.238
CM	ACAD1	44.377	-68.261	-0.012	0.104	1.035	0.684	0.965	0.860	0.395	-1.406
CM	BADL1	43.743	-101.941	-0.024	0.000	1.350	0.652	1.085	1.001	0.355	-2.407
CM	BAND1	35.78	-106.266	-0.024	0.008	1.163	0.466	0.966	0.814	0.387	-2.952
CM	BIBE1	29.303	-103.178	-0.023	0.216	2.238	1.582	1.932	1.899	0.683	-1.191
CM	BLIS1	38.976	-120.103	-0.004	0.612	0.521	0.392	0.523	0.452	0.201	-0.985

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CM	BOWA1	47.947	-91.495	-0.010	0.010	0.590	0.298	0.452	0.424	0.191	-2.374
CM	BRCA1	37.618	-112.174	-0.015	0.000	0.656	0.223	0.467	0.432	0.213	-3.462
CM	BRID1	42.975	-109.758	-0.017	0.000	0.497	0.001	0.364	0.249	0.313	-6.859
CM	BRIG1	39.465	-74.449	-0.070	0.023	4.072	2.049	3.202	2.956	1.208	-2.360
CM	CANY1	38.459	-109.821	-0.053	0.000	1.590	0.061	1.065	0.825	0.650	-6.391
CM	CHAS1	28.748	-82.555	-0.048	0.003	3.587	2.207	2.958	2.778	0.780	-1.713
CM	CHIR1	32.009	-109.389	-0.017	0.139	1.669	1.189	1.458	1.429	0.445	-1.158
CM	CORI1	45.664	-121.001	-0.047	0.006	2.124	0.767	1.412	1.305	0.640	-3.583
CM	CRLA1	42.896	-122.136	-0.005	0.009	0.173	0.017	0.156	0.082	0.186	-6.563
CM	DENA1	63.723	-148.967	-0.018	0.000	0.478	-0.048	0.341	0.215	0.282	-8.429
CM	DOSO1	39.105	-79.426	0.011	0.219	0.450	0.769	0.593	0.626	0.347	1.758
CM	GICL1	33.22	-108.235	-0.022	0.128	0.951	0.299	0.716	0.580	0.418	-3.875
CM	GLAC1	48.511	-113.997	-0.029	0.000	0.868	0.031	0.669	0.450	0.474	-6.415
CM	GRBA1	39.005	-114.216	-0.024	0.000	0.837	0.140	0.533	0.452	0.290	-5.309
CM	GRCA2	36.066	-112.154	-0.032	0.000	0.913	0.000	0.784	0.472	0.553	-6.668
CM	GRSA1	37.725	-105.519	-0.024	0.000	1.180	0.489	0.881	0.835	0.367	-2.855
CM	GRSM1	35.633	-83.942	-0.016	0.090	1.480	1.024	1.285	1.252	0.360	-1.255
CM	GUMO1	31.833	-104.809	0.002	0.789	1.863	1.930	1.927	1.896	0.556	0.120
CM	JARB1	41.893	-115.426	-0.012	0.004	0.473	0.130	0.433	0.284	0.455	-4.173
CM	LAVO1	40.54	-121.577	0.000	0.872	0.278	0.264	0.302	0.271	0.192	-0.174
CM	MACA1	37.132	-86.148	0.004	0.782	1.504	1.632	1.383	1.573	0.632	0.280
CM	MEVE1	37.198	-108.491	-0.007	0.309	0.675	0.463	0.623	0.569	0.245	-1.286
CM	MOOS1	45.126	-67.266	-0.013	0.004	0.949	0.561	0.807	0.721	0.308	-1.856
CM	MORA1	46.758	-122.124	-0.019	0.000	0.750	0.192	0.542	0.461	0.281	-4.175
CM	MOZI1	40.538	-106.677	-0.025	0.000	0.717	-0.008	0.399	0.280	0.353	-8.937
CM	OKEF1	30.74	-82.128	-0.024	0.150	2.315	1.609	2.048	1.926	0.756	-1.264
CM	PEFO1	35.078	-109.769	0.002	0.680	0.852	0.918	0.868	0.886	0.239	0.256
CM	PINN1	36.483	-121.157	-0.021	0.121	2.320	1.724	2.122	2.022	0.562	-1.016
CM	PORE1	38.122	-122.909	-0.068	0.000	2.988	1.016	2.235	2.002	1.020	-3.395
CM	REDW1	41.561	-124.084	-0.034	0.002	1.699	0.720	1.320	1.209	0.468	-2.792
CM	ROMA1	32.941	-79.657	-0.073	0.013	3.661	1.545	2.480	2.421	1.042	-3.015
CM	ROMO1	40.278	-105.546	-0.021	0.000	0.892	0.272	0.615	0.571	0.287	-3.739
CM	SAGO1	34.194	-116.913	-0.030	0.001	1.527	0.657	1.227	1.062	0.508	-2.824
CM	SAGU1	32.175	-110.737	0.010	0.672	2.425	2.727	2.550	2.618	0.607	0.398
CM	SEQU1	36.489	-118.829	-0.038	0.045	2.412	1.304	2.017	1.781	0.848	-2.144
CM	SHEN1	38.523	-78.435	-0.028	0.002	1.414	0.601	1.109	1.008	0.396	-2.782
CM	SHRO1	35.394	-82.774	-0.001	0.979	0.478	0.453	0.501	0.462	0.439	-0.184

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CM	SIPS1	34.343	-87.339	-0.031	0.011	2.211	1.299	1.682	1.692	0.453	-1.860
CM	SNPA1	47.422	-121.426	0.000	0.882	0.081	0.094	0.128	0.089	0.158	0.486
CM	THSI1	44.291	-122.043	-0.008	0.076	0.304	0.083	0.242	0.174	0.171	-4.372
CM	TONT1	33.655	-111.107	-0.026	0.016	1.996	1.235	1.689	1.602	0.541	-1.640
CM	UPBU1	35.826	-93.203	-0.057	0.003	2.709	1.048	1.746	1.793	0.747	-3.194
CM	WEMI1	37.659	-107.8	-0.029	0.000	1.145	0.313	0.817	0.729	0.374	-3.931
CM	YELL3	44.565	-110.4	-0.015	0.066	0.406	-0.017	0.316	0.187	0.284	-7.800
CM	YOSE1	37.713	-119.706	-0.025	0.004	0.965	0.247	0.762	0.606	0.417	-4.083
PM10	ACAD1	44.377	-68.261	-0.112	0.000	4.450	1.214	3.356	2.832	1.268	-3.940
PM10	BADL1	43.743	-101.941	-0.073	0.000	3.841	1.718	3.150	2.780	0.848	-2.634
PM10	BAND1	35.78	-106.266	-0.085	0.000	3.801	1.345	2.905	2.573	0.878	-3.290
PM10	BIBE1	29.303	-103.178	-0.081	0.000	5.762	3.399	4.806	4.540	1.178	-1.795
PM10	BLIS1	38.976	-120.103	-0.044	0.002	1.951	0.672	1.514	1.267	0.580	-3.480
PM10	BOWA1	47.947	-91.495	-0.080	0.000	3.242	0.936	2.156	1.930	0.737	-4.119
PM10	BRCA1	37.618	-112.174	-0.058	0.000	2.100	0.426	1.421	1.234	0.633	-4.678
PM10	BRID1	42.975	-109.758	-0.048	0.000	1.580	0.189	1.116	0.884	0.597	-5.422
PM10	BRIG1	39.465	-74.449	-0.236	0.000	11.623	4.775	8.582	7.845	2.384	-3.010
PM10	CANY1	38.459	-109.821	-0.098	0.000	3.642	0.795	2.601	2.219	1.163	-4.425
PM10	CHAS1	28.748	-82.555	-0.200	0.000	11.802	6.012	9.101	8.607	1.737	-2.320
PM10	CHIR1	32.009	-109.389	-0.073	0.000	4.091	1.984	3.323	3.038	0.968	-2.392
PM10	CORI1	45.664	-121.001	-0.092	0.000	5.639	2.979	4.331	4.126	0.985	-2.223
PM10	CRLA1	42.896	-122.136	-0.037	0.000	1.214	0.142	0.808	0.623	0.459	-5.937
PM10	DENA1	63.723	-148.967	-0.049	0.000	1.379	-0.043	0.917	0.668	0.601	-7.342
PM10	DOSO1	39.105	-79.426	-0.187	0.000	7.127	1.702	4.661	4.134	1.882	-4.526
PM10	GICL1	33.22	-108.235	-0.061	0.000	2.689	0.931	2.059	1.689	0.831	-3.591
PM10	GLAC1	48.511	-113.997	-0.096	0.000	3.766	0.972	2.797	2.369	1.238	-4.066
PM10	GRBA1	39.005	-114.216	-0.062	0.000	2.225	0.420	1.526	1.229	0.690	-5.062
PM10	GRCA2	36.066	-112.154	-0.088	0.000	2.672	0.117	1.933	1.439	1.032	-6.123
PM10	GRSA1	37.725	-105.519	-0.063	0.000	3.162	1.321	2.463	2.242	0.796	-2.832
PM10	GRSM1	35.633	-83.942	-0.187	0.000	7.994	2.563	5.605	5.279	1.732	-3.548
PM10	GUMO1	31.833	-104.809	-0.035	0.072	5.214	4.198	4.568	4.706	0.829	-0.744
PM10	JARB1	41.893	-115.426	-0.036	0.000	1.543	0.490	1.169	0.962	0.579	-3.775
PM10	LAVO1	40.54	-121.577	-0.022	0.000	1.249	0.608	1.034	0.928	0.357	-2.381
PM10	MACA1	37.132	-86.148	-0.161	0.000	10.014	5.335	7.007	7.513	1.522	-2.148
PM10	MEVE1	37.198	-108.491	-0.055	0.000	2.660	1.080	2.118	1.870	0.701	-2.915
PM10	MOOS1	45.126	-67.266	-0.107	0.000	4.463	1.364	3.034	2.646	1.028	-4.039
PM10	MORA1	46.758	-122.124	-0.067	0.000	2.488	0.550	1.855	1.485	0.924	-4.499

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PM10	MOZI1	40.538	-106.677	-0.065	0.000	2.008	0.131	1.219	0.875	0.707	-7.395
PM10	OKEF1	30.74	-82.128	-0.158	0.000	9.680	5.104	7.699	7.234	1.756	-2.181
PM10	PEFO1	35.078	-109.769	-0.045	0.000	3.288	1.988	2.823	2.638	0.602	-1.699
PM10	PINN1	36.483	-121.157	-0.080	0.003	5.543	3.225	4.602	4.384	1.099	-1.823
PM10	PORE1	38.122	-122.909	-0.151	0.000	7.075	2.703	5.094	4.889	1.754	-3.084
PM10	REDW1	41.561	-124.084	-0.100	0.000	3.913	1.005	2.862	2.459	1.080	-4.078
PM10	ROMA1	32.941	-79.657	-0.237	0.000	11.569	4.682	8.190	7.532	1.968	-3.153
PM10	ROMO1	40.278	-105.546	-0.051	0.000	2.299	0.829	1.619	1.539	0.565	-3.296
PM10	SAGO1	34.194	-116.913	-0.106	0.000	3.774	0.696	2.868	2.129	1.347	-4.985
PM10	SAGU1	32.175	-110.737	-0.083	0.000	7.009	4.598	5.443	5.471	0.951	-1.520
PM10	SEQU1	36.489	-118.829	-0.094	0.001	5.676	2.958	4.409	4.130	1.245	-2.269
PM10	SHEN1	38.523	-78.435	-0.149	0.000	6.591	2.264	4.671	4.428	1.490	-3.370
PM10	SHRO1	35.394	-82.774	-0.102	0.000	3.746	0.802	2.383	1.919	1.168	-5.291
PM10	SIPS1	34.343	-87.339	-0.209	0.000	10.287	4.232	7.325	6.842	2.165	-3.052
PM10	SNPA1	47.422	-121.426	-0.048	0.000	1.609	0.216	0.932	0.769	0.549	-6.249
PM10	THSI1	44.291	-122.043	-0.019	0.025	0.901	0.352	0.707	0.579	0.343	-3.265
PM10	TONT1	33.655	-111.107	-0.088	0.000	5.196	2.635	4.018	3.871	1.003	-2.281
PM10	UPBU1	35.826	-93.203	-0.166	0.000	8.817	4.017	5.789	6.169	1.535	-2.683
PM10	WEMI1	37.659	-107.8	-0.067	0.000	2.621	0.688	1.916	1.654	0.701	-4.030
PM10	YELL3	44.565	-110.4	-0.052	0.000	1.645	0.147	1.204	0.896	0.711	-5.766
PM10	YOSE1	37.713	-119.706	-0.061	0.000	2.300	0.544	1.813	1.422	0.904	-4.259

**Table 6.3.2. IMPROVE long-term (1990–2019) 50<sup>th</sup> percentile mass trends for sites that met completeness criteria (see Chapter 6). Species include sulfate ion (SO<sub>4</sub>), nitrate ion (NO<sub>3</sub>), organic carbon (OC), elemental carbon (EC), fine dust (FD), gravimetric PM<sub>2.5</sub> mass (FM), coarse mass (CM), and gravimetric PM<sub>10</sub> mass (PM<sub>10</sub>). The slope is derived from a linear trend regression, beginning and end year concentrations are based on the linear fit for year 1990 and 2019, the mean and median 50<sup>th</sup> percentile concentrations over the 1990-2019 period, standard deviation in the mean over the 1990-2019 period, and trend is the slope divided by the median concentration times 100.**

Species	Site	Lat (°)	Lon (°)	Slope (µg m <sup>-3</sup> yr <sup>-1</sup> )	Statistical Significance (p)	Beg. Year (µg m <sup>-3</sup> )	End Year (µg m <sup>-3</sup> )	Mean (µg m <sup>-3</sup> )	Median (µg m <sup>-3</sup> )	Standard Deviation (µg m <sup>-3</sup> )	Trend (% yr <sup>-1</sup> )
SO4	ACAD1	44.377	-68.261	-0.053	0.000	1.816	0.277	1.101	1.046	0.500	-5.069
SO4	BADL1	43.743	-101.941	-0.017	0.000	0.994	0.490	0.750	0.742	0.186	-2.340
SO4	BAND1	35.78	-106.266	-0.017	0.000	0.831	0.343	0.572	0.587	0.154	-2.867
SO4	BIBE1	29.303	-103.178	-0.019	0.001	1.734	1.182	1.428	1.458	0.255	-1.306
SO4	BLIS1	38.976	-120.103	-0.008	0.000	0.489	0.262	0.378	0.368	0.082	-2.121
SO4	BOWA1	47.947	-91.495	-0.032	0.000	1.289	0.374	0.786	0.768	0.279	-4.109
SO4	BRCA1	37.618	-112.174	-0.013	0.000	0.673	0.295	0.465	0.478	0.121	-2.733
SO4	BRID1	42.975	-109.758	-0.009	0.000	0.506	0.234	0.365	0.370	0.092	-2.542
SO4	BRIG1	39.465	-74.449	-0.121	0.000	4.365	0.864	2.330	2.494	0.981	-4.840
SO4	CANY1	38.459	-109.821	-0.019	0.000	0.821	0.256	0.557	0.539	0.179	-3.617
SO4	CHAS1	28.748	-82.555	-0.097	0.000	4.077	1.273	2.180	2.530	0.794	-3.823
SO4	CHIR1	32.009	-109.389	-0.023	0.000	1.114	0.452	0.785	0.783	0.221	-2.915
SO4	CORI1	45.664	-121.001	-0.023	0.000	0.957	0.281	0.602	0.572	0.190	-4.076
SO4	CRLA1	42.896	-122.136	-0.004	0.000	0.297	0.174	0.237	0.234	0.054	-1.812
SO4	CRMO1	43.46	-113.555	-0.008	0.000	0.482	0.257	0.327	0.346	0.066	-2.236
SO4	DENA1	63.723	-148.967	-0.002	0.031	0.263	0.200	0.232	0.231	0.049	-0.942
SO4	DOSO1	39.105	-79.426	-0.124	0.000	4.527	0.945	2.540	2.613	1.122	-4.728
SO4	EVER1	25.391	-80.681	-0.049	0.000	2.396	0.987	1.559	1.522	0.423	-3.194
SO4	GICL1	33.22	-108.235	-0.020	0.000	0.910	0.316	0.596	0.572	0.164	-3.578
SO4	GLAC1	48.511	-113.997	-0.015	0.000	0.648	0.221	0.440	0.435	0.136	-3.385
SO4	GRBA1	39.005	-114.216	-0.006	0.000	0.440	0.269	0.356	0.346	0.065	-1.705
SO4	GRCA2	36.066	-112.154	-0.014	0.000	0.752	0.333	0.527	0.535	0.136	-2.697
SO4	GRSA1	37.725	-105.519	-0.013	0.000	0.677	0.295	0.468	0.486	0.120	-2.705
SO4	GRSM1	35.633	-83.942	-0.121	0.000	4.966	1.462	2.753	3.214	1.135	-3.759
SO4	GUMO1	31.833	-104.809	-0.017	0.000	1.180	0.687	0.942	0.933	0.195	-1.821
SO4	HAVO1	19.431	-155.258	-0.002	0.432	0.646	0.583	0.575	0.605	0.096	-0.362
SO4	JARB1	41.893	-115.426	-0.004	0.000	0.382	0.255	0.305	0.317	0.054	-1.380
SO4	LAVO1	40.54	-121.577	-0.004	0.013	0.345	0.237	0.297	0.287	0.055	-1.296
SO4	LYBR1	43.148	-73.127	-0.049	0.000	1.700	0.273	1.189	1.109	0.341	-4.437
SO4	MACA1	37.132	-86.148	-0.152	0.000	5.687	1.272	3.049	3.327	1.272	-4.577
SO4	MEVE1	37.198	-108.491	-0.016	0.000	0.747	0.294	0.524	0.520	0.149	-3.003
SO4	MOOS1	45.126	-67.266	-0.045	0.000	1.714	0.420	0.937	0.956	0.343	-4.669

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	MORA1	46.758	-122.124	-0.020	0.000	0.741	0.167	0.472	0.444	0.192	-4.458
SO4	MOZI1	40.538	-106.677	-0.013	0.000	0.637	0.260	0.405	0.409	0.110	-3.172
SO4	OKEF1	30.74	-82.128	-0.107	0.000	4.243	1.134	2.382	2.582	0.885	-4.152
SO4	PEFO1	35.078	-109.769	-0.016	0.000	0.891	0.423	0.619	0.657	0.150	-2.456
SO4	PINN1	36.483	-121.157	-0.017	0.000	0.990	0.491	0.714	0.741	0.159	-2.323
SO4	PORE1	38.122	-122.909	-0.017	0.000	1.131	0.626	0.838	0.879	0.188	-1.980
SO4	REDW1	41.561	-124.084	-0.011	0.000	0.618	0.312	0.457	0.465	0.108	-2.271
SO4	ROMA1	32.941	-79.657	-0.135	0.000	4.936	1.013	2.503	2.637	0.995	-5.130
SO4	ROMO1	40.278	-105.546	-0.014	0.000	0.679	0.276	0.470	0.471	0.129	-2.951
SO4	SAGO1	34.194	-116.913	-0.023	0.000	1.114	0.436	0.749	0.752	0.223	-3.112
SO4	SAGU1	32.175	-110.737	-0.026	0.000	1.255	0.497	0.793	0.771	0.223	-3.391
SO4	SAWT1	44.171	-114.927	-0.006	0.000	0.364	0.193	0.248	0.261	0.049	-2.261
SO4	SEQU1	36.489	-118.829	-0.023	0.000	1.419	0.757	1.069	1.065	0.235	-2.144
SO4	SHEN1	38.523	-78.435	-0.116	0.000	4.484	1.132	2.507	2.808	1.063	-4.116
SO4	SHRO1	35.394	-82.774	-0.106	0.000	3.688	0.621	1.783	1.837	0.834	-5.757
SO4	SIPS1	34.343	-87.339	-0.156	0.000	5.657	1.126	2.885	3.157	1.318	-4.948
SO4	SNPA1	47.422	-121.426	-0.018	0.000	0.663	0.149	0.393	0.353	0.154	-5.024
SO4	SULA1	45.86	-114	-0.008	0.000	0.413	0.183	0.262	0.274	0.061	-2.898
SO4	THSI1	44.291	-122.043	-0.006	0.000	0.404	0.219	0.296	0.299	0.065	-2.129
SO4	TONT1	33.655	-111.107	-0.021	0.000	1.159	0.541	0.812	0.840	0.190	-2.537
SO4	UPBU1	35.826	-93.203	-0.081	0.000	3.361	1.019	2.003	2.110	0.692	-3.828
SO4	WEMI1	37.659	-107.8	-0.012	0.000	0.620	0.269	0.431	0.445	0.111	-2.718
SO4	WHRI1	39.154	-106.821	-0.011	0.000	0.533	0.223	0.341	0.346	0.081	-3.099
SO4	YELL2	44.565	-110.4	-0.008	0.000	0.479	0.245	0.341	0.362	0.080	-2.226
SO4	YOSE1	37.713	-119.706	-0.010	0.000	0.706	0.406	0.549	0.556	0.114	-1.862
NO3	ACAD1	44.377	-68.261	-0.005	0.000	0.249	0.102	0.161	0.163	0.050	-3.108
NO3	BADL1	43.743	-101.941	0.000	0.852	0.148	0.152	0.152	0.150	0.027	0.092
NO3	BAND1	35.78	-106.266	-0.002	0.000	0.144	0.090	0.112	0.112	0.025	-1.661
NO3	BIBE1	29.303	-103.178	0.000	0.926	0.130	0.128	0.134	0.129	0.020	-0.051
NO3	BLIS1	38.976	-120.103	-0.003	0.000	0.151	0.059	0.111	0.097	0.032	-3.258
NO3	BOWA1	47.947	-91.495	-0.003	0.000	0.153	0.069	0.102	0.101	0.033	-2.850
NO3	BRCA1	37.618	-112.174	-0.001	0.000	0.137	0.098	0.112	0.113	0.022	-1.188
NO3	BRID1	42.975	-109.758	-0.001	0.088	0.095	0.073	0.082	0.082	0.017	-0.932
NO3	BRIG1	39.465	-74.449	-0.014	0.000	0.749	0.340	0.501	0.495	0.119	-2.848
NO3	CANY1	38.459	-109.821	-0.002	0.000	0.134	0.082	0.105	0.104	0.026	-1.753
NO3	CHAS1	28.748	-82.555	-0.005	0.000	0.408	0.255	0.314	0.310	0.051	-1.705
NO3	CHIR1	32.009	-109.389	0.000	0.926	0.099	0.101	0.104	0.100	0.022	0.055

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
NO3	CRLA1	42.896	-122.136	-0.001	0.005	0.062	0.035	0.048	0.045	0.015	-2.030
NO3	DENA1	63.723	-148.967	0.000	0.003	0.030	0.020	0.025	0.024	0.006	-1.428
NO3	DOSO1	39.105	-79.426	-0.003	0.042	0.259	0.174	0.221	0.206	0.044	-1.435
NO3	GICL1	33.22	-108.235	-0.001	0.147	0.082	0.064	0.071	0.070	0.011	-0.884
NO3	GLAC1	48.511	-113.997	-0.003	0.000	0.156	0.065	0.106	0.103	0.032	-3.056
NO3	GRBA1	39.005	-114.216	-0.002	0.002	0.106	0.057	0.078	0.074	0.018	-2.272
NO3	GRCA2	36.066	-112.154	-0.001	0.026	0.120	0.097	0.108	0.106	0.016	-0.753
NO3	GRSA1	37.725	-105.519	-0.001	0.001	0.111	0.073	0.093	0.089	0.021	-1.505
NO3	GRSM1	35.633	-83.942	-0.004	0.000	0.259	0.149	0.199	0.194	0.044	-1.949
NO3	GUMO1	31.833	-104.809	0.000	0.484	0.168	0.158	0.161	0.162	0.027	-0.203
NO3	HAVO1	19.431	-155.258	-0.001	0.251	0.066	0.051	0.056	0.057	0.010	-0.914
NO3	JARB1	41.893	-115.426	-0.001	0.000	0.070	0.050	0.059	0.058	0.010	-1.201
NO3	LAVO1	40.54	-121.577	-0.001	0.042	0.094	0.055	0.070	0.070	0.023	-1.884
NO3	MACA1	37.132	-86.148	-0.016	0.000	0.694	0.244	0.443	0.415	0.141	-3.740
NO3	MEVE1	37.198	-108.491	-0.001	0.135	0.107	0.085	0.098	0.094	0.025	-0.796
NO3	MORA1	46.758	-122.124	-0.003	0.000	0.130	0.039	0.086	0.075	0.030	-4.179
NO3	OKEF1	30.74	-82.128	-0.006	0.000	0.356	0.190	0.270	0.253	0.058	-2.266
NO3	PEFO1	35.078	-109.769	-0.001	0.009	0.149	0.110	0.129	0.126	0.028	-1.083
NO3	PINN1	36.483	-121.157	-0.017	0.000	0.759	0.270	0.518	0.472	0.172	-3.574
NO3	PORE1	38.122	-122.909	-0.008	0.000	0.431	0.190	0.316	0.289	0.090	-2.874
NO3	REDW1	41.561	-124.084	-0.004	0.000	0.213	0.093	0.145	0.143	0.045	-2.884
NO3	ROMO1	40.278	-105.546	-0.001	0.002	0.128	0.089	0.112	0.105	0.028	-1.300
NO3	SAGO1	34.194	-116.913	-0.074	0.000	2.141	-0.004	1.129	0.846	0.737	-8.740
NO3	SAGU1	32.175	-110.737	-0.002	0.034	0.255	0.202	0.222	0.221	0.030	-0.836
NO3	SEQU1	36.489	-118.829	-0.014	0.001	0.898	0.485	0.587	0.642	0.158	-2.219
NO3	SHEN1	38.523	-78.435	-0.006	0.001	0.436	0.270	0.364	0.339	0.090	-1.686
NO3	SIPS1	34.343	-87.339	-0.013	0.000	0.551	0.177	0.324	0.319	0.114	-4.043
NO3	THSI1	44.291	-122.043	-0.002	0.001	0.081	0.028	0.050	0.047	0.016	-3.934
NO3	TONT1	33.655	-111.107	-0.002	0.013	0.194	0.148	0.175	0.166	0.032	-0.943
NO3	UPBU1	35.826	-93.203	-0.013	0.000	0.624	0.258	0.385	0.397	0.111	-3.177
NO3	WEMI1	37.659	-107.8	0.000	0.025	0.067	0.055	0.063	0.060	0.011	-0.709
NO3	YELL2	44.565	-110.4	-0.001	0.008	0.107	0.078	0.090	0.090	0.019	-1.086
NO3	YOSE1	37.713	-119.706	-0.004	0.000	0.243	0.133	0.175	0.178	0.047	-2.126
OC	ACAD1	44.377	-68.261	-0.013	0.000	0.885	0.497	0.710	0.691	0.170	-1.938
OC	BADL1	43.743	-101.941	-0.008	0.003	0.722	0.477	0.624	0.600	0.156	-1.410
OC	BAND1	35.78	-106.266	-0.012	0.000	0.783	0.446	0.626	0.615	0.122	-1.886
OC	BIBE1	29.303	-103.178	-0.010	0.000	0.772	0.489	0.639	0.631	0.130	-1.547



Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
OC	BLIS1	38.976	-120.103	-0.012	0.000	0.885	0.533	0.693	0.697	0.151	-1.741
OC	BOWA1	47.947	-91.495	-0.014	0.000	0.843	0.451	0.659	0.613	0.164	-2.207
OC	BRCA1	37.618	-112.174	-0.008	0.000	0.523	0.282	0.412	0.399	0.079	-2.087
OC	BRID1	42.975	-109.758	-0.007	0.000	0.488	0.285	0.398	0.386	0.086	-1.812
OC	BRIG1	39.465	-74.449	-0.024	0.000	1.677	0.970	1.267	1.311	0.239	-1.861
OC	CANY1	38.459	-109.821	-0.009	0.000	0.533	0.284	0.410	0.409	0.092	-2.097
OC	CHAS1	28.748	-82.555	-0.025	0.000	1.828	1.093	1.410	1.422	0.249	-1.781
OC	CHIR1	32.009	-109.389	-0.008	0.000	0.536	0.300	0.441	0.418	0.092	-1.946
OC	CORI1	45.664	-121.001	-0.024	0.000	1.369	0.664	1.035	0.956	0.247	-2.544
OC	CRLA1	42.896	-122.136	-0.007	0.000	0.534	0.319	0.417	0.416	0.107	-1.784
OC	DENA1	63.723	-148.967	-0.003	0.000	0.259	0.164	0.220	0.211	0.045	-1.551
OC	DOSO1	39.105	-79.426	-0.038	0.000	1.785	0.674	1.213	1.191	0.356	-3.217
OC	GICL1	33.22	-108.235	-0.012	0.000	0.722	0.386	0.531	0.531	0.134	-2.187
OC	GLAC1	48.511	-113.997	-0.029	0.000	1.710	0.855	1.303	1.283	0.302	-2.300
OC	GRBA1	39.005	-114.216	-0.012	0.000	0.618	0.277	0.457	0.430	0.121	-2.734
OC	GRCA2	36.066	-112.154	-0.009	0.000	0.541	0.285	0.413	0.409	0.105	-2.155
OC	GRSA1	37.725	-105.519	-0.004	0.031	0.612	0.498	0.553	0.555	0.080	-0.710
OC	GRSM1	35.633	-83.942	-0.035	0.000	2.089	1.088	1.473	1.589	0.372	-2.174
OC	GUMO1	31.833	-104.809	-0.007	0.000	0.686	0.490	0.578	0.588	0.086	-1.146
OC	HAVO1	19.431	-155.258	0.000	0.672	0.110	0.096	0.132	0.101	0.108	-0.492
OC	JARB1	41.893	-115.426	-0.008	0.000	0.508	0.278	0.397	0.385	0.093	-2.062
OC	LAVO1	40.54	-121.577	-0.013	0.000	0.797	0.412	0.627	0.604	0.168	-2.192
OC	MACA1	37.132	-86.148	-0.033	0.000	2.095	1.150	1.577	1.590	0.299	-2.049
OC	MEVE1	37.198	-108.491	-0.007	0.000	0.564	0.348	0.449	0.456	0.099	-1.636
OC	MOOS1	45.126	-67.266	-0.021	0.000	1.078	0.458	0.758	0.715	0.172	-2.992
OC	MORA1	46.758	-122.124	-0.034	0.000	1.242	0.244	0.858	0.726	0.332	-4.740
OC	MOZI1	40.538	-106.677	-0.008	0.000	0.482	0.260	0.350	0.348	0.079	-2.190
OC	OKEF1	30.74	-82.128	-0.028	0.000	1.965	1.162	1.545	1.536	0.293	-1.803
OC	PEFO1	35.078	-109.769	-0.013	0.000	0.731	0.362	0.569	0.546	0.138	-2.324
OC	PINN1	36.483	-121.157	-0.020	0.000	1.190	0.617	0.924	0.904	0.193	-2.186
OC	PORE1	38.122	-122.909	-0.012	0.000	0.569	0.228	0.420	0.399	0.131	-2.948
OC	REDW1	41.561	-124.084	-0.012	0.000	0.636	0.291	0.480	0.463	0.142	-2.570
OC	ROMA1	32.941	-79.657	-0.029	0.000	1.854	1.016	1.399	1.363	0.251	-2.121
OC	ROMO1	40.278	-105.546	-0.011	0.000	0.614	0.307	0.487	0.455	0.128	-2.321
OC	SAGO1	34.194	-116.913	-0.032	0.000	1.275	0.346	0.923	0.778	0.332	-4.118
OC	SAGU1	32.175	-110.737	-0.010	0.000	0.801	0.497	0.618	0.607	0.113	-1.725
OC	SEQU1	36.489	-118.829	-0.043	0.000	2.575	1.322	1.871	1.862	0.447	-2.320

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
OC	SHEN1	38.523	-78.435	-0.025	0.000	1.391	0.654	1.065	1.022	0.243	-2.485
OC	SHRO1	35.394	-82.774	-0.019	0.006	1.244	0.701	0.927	0.926	0.213	-2.020
OC	SIPS1	34.343	-87.339	-0.041	0.000	2.469	1.277	1.793	1.811	0.373	-2.270
OC	SNPA1	47.422	-121.426	-0.017	0.000	0.838	0.341	0.540	0.538	0.151	-3.190
OC	THSI1	44.291	-122.043	-0.013	0.000	0.715	0.346	0.526	0.505	0.125	-2.517
OC	TONT1	33.655	-111.107	-0.013	0.000	0.873	0.508	0.686	0.684	0.134	-1.836
OC	UPBU1	35.826	-93.203	-0.025	0.000	1.696	0.986	1.357	1.316	0.256	-1.861
OC	WEMI1	37.659	-107.8	-0.006	0.000	0.518	0.343	0.422	0.430	0.072	-1.399
OC	YELL2	44.565	-110.4	-0.017	0.000	0.696	0.217	0.515	0.456	0.174	-3.621
OC	YOSE1	37.713	-119.706	-0.019	0.000	1.201	0.662	0.962	0.931	0.243	-1.998
EC	ACAD1	44.377	-68.261	-0.008	0.000	0.269	0.051	0.161	0.160	0.072	-4.686
EC	BADL1	43.743	-101.941	-0.003	0.000	0.148	0.066	0.107	0.107	0.030	-2.625
EC	BAND1	35.78	-106.266	-0.003	0.000	0.171	0.076	0.119	0.124	0.033	-2.655
EC	BIBE1	29.303	-103.178	-0.002	0.000	0.150	0.086	0.123	0.118	0.031	-1.883
EC	BLIS1	38.976	-120.103	-0.004	0.000	0.166	0.062	0.116	0.110	0.035	-3.232
EC	BOWA1	47.947	-91.495	-0.003	0.000	0.153	0.056	0.104	0.096	0.033	-3.488
EC	BRCA1	37.618	-112.174	-0.002	0.000	0.119	0.051	0.078	0.084	0.025	-2.801
EC	BRID1	42.975	-109.758	-0.002	0.000	0.079	0.035	0.061	0.057	0.021	-2.635
EC	BRIG1	39.465	-74.449	-0.014	0.000	0.593	0.184	0.358	0.382	0.126	-3.695
EC	CANY1	38.459	-109.821	-0.003	0.000	0.123	0.047	0.082	0.085	0.030	-3.079
EC	CHAS1	28.748	-82.555	-0.015	0.000	0.611	0.180	0.371	0.374	0.133	-3.981
EC	CHIR1	32.009	-109.389	-0.003	0.000	0.136	0.051	0.093	0.093	0.028	-3.152
EC	CORI1	45.664	-121.001	-0.010	0.000	0.440	0.146	0.258	0.268	0.083	-3.792
EC	CRLA1	42.896	-122.136	-0.005	0.000	0.171	0.035	0.105	0.096	0.043	-4.863
EC	DENA1	63.723	-148.967	-0.002	0.000	0.067	0.018	0.045	0.042	0.021	-4.049
EC	DOSO1	39.105	-79.426	-0.010	0.000	0.439	0.143	0.271	0.280	0.094	-3.642
EC	GICL1	33.22	-108.235	-0.004	0.000	0.156	0.039	0.092	0.089	0.035	-4.487
EC	GLAC1	48.511	-113.997	-0.007	0.000	0.375	0.179	0.275	0.277	0.068	-2.432
EC	GRBA1	39.005	-114.216	-0.004	0.000	0.139	0.018	0.083	0.072	0.038	-5.807
EC	GRCA2	36.066	-112.154	-0.003	0.000	0.139	0.039	0.082	0.087	0.033	-3.961
EC	GRSA1	37.725	-105.519	-0.002	0.000	0.110	0.061	0.086	0.085	0.019	-1.969
EC	GRSM1	35.633	-83.942	-0.010	0.000	0.484	0.199	0.318	0.342	0.104	-2.877
EC	GUMO1	31.833	-104.809	-0.002	0.000	0.135	0.079	0.106	0.107	0.026	-1.795
EC	HAVO1	19.431	-155.258	-0.001	0.000	0.038	0.008	0.023	0.018	0.012	-5.650
EC	JARB1	41.893	-115.426	-0.002	0.000	0.081	0.027	0.055	0.052	0.020	-3.553
EC	LAVO1	40.54	-121.577	-0.003	0.000	0.154	0.057	0.107	0.106	0.037	-3.159
EC	MACA1	37.132	-86.148	-0.010	0.000	0.546	0.261	0.375	0.394	0.101	-2.499

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EC	MEVE1	37.198	-108.491	-0.003	0.000	0.119	0.040	0.085	0.080	0.035	-3.433
EC	MOOS1	45.126	-67.266	-0.008	0.000	0.276	0.047	0.143	0.142	0.060	-5.588
EC	MORA1	46.758	-122.124	-0.008	0.000	0.311	0.076	0.187	0.190	0.076	-4.291
EC	MOZI1	40.538	-106.677	-0.003	0.000	0.104	0.027	0.062	0.057	0.024	-4.651
EC	OKEF1	30.74	-82.128	-0.010	0.000	0.449	0.152	0.296	0.291	0.095	-3.522
EC	PEFO1	35.078	-109.769	-0.006	0.000	0.274	0.101	0.186	0.188	0.064	-3.178
EC	PINN1	36.483	-121.157	-0.009	0.000	0.336	0.083	0.203	0.210	0.084	-4.162
EC	PORE1	38.122	-122.909	-0.003	0.000	0.095	0.021	0.054	0.058	0.025	-4.436
EC	REDW1	41.561	-124.084	-0.003	0.000	0.088	0.016	0.057	0.052	0.026	-4.817
EC	ROMA1	32.941	-79.657	-0.011	0.000	0.440	0.117	0.283	0.251	0.100	-4.456
EC	ROMO1	40.278	-105.546	-0.003	0.000	0.138	0.052	0.094	0.094	0.031	-3.163
EC	SAGO1	34.194	-116.913	-0.012	0.000	0.436	0.094	0.239	0.253	0.109	-4.657
EC	SAGU1	32.175	-110.737	-0.006	0.000	0.239	0.079	0.160	0.137	0.053	-4.018
EC	SEQU1	36.489	-118.829	-0.013	0.000	0.533	0.158	0.311	0.320	0.113	-4.035
EC	SHEN1	38.523	-78.435	-0.009	0.000	0.402	0.152	0.265	0.277	0.083	-3.119
EC	SHRO1	35.394	-82.774	-0.007	0.000	0.293	0.081	0.172	0.169	0.063	-4.345
EC	SIPS1	34.343	-87.339	-0.016	0.000	0.661	0.206	0.407	0.410	0.143	-3.831
EC	SNPA1	47.422	-121.426	-0.008	0.000	0.285	0.064	0.157	0.152	0.062	-5.033
EC	THSI1	44.291	-122.043	-0.004	0.000	0.147	0.037	0.090	0.084	0.032	-4.501
EC	TONT1	33.655	-111.107	-0.005	0.000	0.224	0.083	0.153	0.151	0.051	-3.223
EC	UPBU1	35.826	-93.203	-0.007	0.000	0.357	0.165	0.251	0.254	0.068	-2.595
EC	WEMI1	37.659	-107.8	-0.004	0.000	0.182	0.058	0.110	0.120	0.040	-3.568
EC	YELL2	44.565	-110.4	-0.003	0.000	0.127	0.031	0.080	0.079	0.032	-4.207
EC	YOSE1	37.713	-119.706	-0.005	0.000	0.228	0.091	0.153	0.160	0.051	-2.947
Fine Dust	ACAD1	44.377	-68.261	-0.004	0.000	0.246	0.117	0.170	0.181	0.055	-2.456
Fine Dust	BADL1	43.743	-101.941	-0.001	0.762	0.492	0.467	0.487	0.479	0.114	-0.184
Fine Dust	BAND1	35.78	-106.266	0.001	0.443	0.469	0.504	0.477	0.487	0.097	0.250
Fine Dust	BIBE1	29.303	-103.178	-0.002	0.682	0.784	0.727	0.797	0.756	0.255	-0.260
Fine Dust	BLIS1	38.976	-120.103	-0.003	0.033	0.424	0.336	0.377	0.377	0.074	-0.810
Fine Dust	BOWA1	47.947	-91.495	-0.006	0.000	0.306	0.131	0.201	0.206	0.058	-2.932
Fine Dust	BRCA1	37.618	-112.174	-0.001	0.344	0.445	0.408	0.438	0.427	0.071	-0.301
Fine Dust	BRID1	42.975	-109.758	-0.003	0.104	0.355	0.281	0.325	0.318	0.073	-0.808
Fine Dust	BRIG1	39.465	-74.449	-0.010	0.000	0.559	0.270	0.362	0.404	0.109	-2.466
Fine Dust	CANY1	38.459	-109.821	-0.002	0.580	0.572	0.521	0.555	0.547	0.121	-0.321
Fine Dust	CHAS1	28.748	-82.555	-0.008	0.003	0.573	0.341	0.423	0.437	0.102	-1.824
Fine Dust	CHIR1	32.009	-109.389	0.002	0.363	0.641	0.709	0.693	0.675	0.176	0.347
Fine Dust	CORI1	45.664	-121.001	0.003	0.674	0.523	0.604	0.643	0.571	0.244	0.489

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Fine Dust	CRLA1	42.896	-122.136	-0.004	0.004	0.323	0.220	0.267	0.266	0.065	-1.338
Fine Dust	CRMO1	43.46	-113.555	-0.005	0.010	0.493	0.342	0.415	0.410	0.092	-1.275
Fine Dust	DENA1	63.723	-148.967	-0.004	0.000	0.158	0.045	0.117	0.102	0.046	-3.833
Fine Dust	DOSO1	39.105	-79.426	-0.008	0.007	0.478	0.256	0.329	0.359	0.100	-2.131
Fine Dust	EVER1	25.391	-80.681	-0.005	0.016	0.421	0.278	0.345	0.340	0.087	-1.446
Fine Dust	GICL1	33.22	-108.235	0.000	0.947	0.480	0.477	0.490	0.478	0.095	-0.018
Fine Dust	GLAC1	48.511	-113.997	-0.006	0.000	0.448	0.270	0.348	0.359	0.082	-1.706
Fine Dust	GRBA1	39.005	-114.216	-0.001	0.723	0.512	0.481	0.502	0.495	0.100	-0.218
Fine Dust	GRCA2	36.066	-112.154	0.001	0.453	0.408	0.433	0.462	0.421	0.103	0.211
Fine Dust	GRSA1	37.725	-105.519	-0.001	0.817	0.639	0.602	0.646	0.621	0.161	-0.208
Fine Dust	GRSM1	35.633	-83.942	-0.008	0.002	0.517	0.272	0.379	0.394	0.116	-2.149
Fine Dust	GUMO1	31.833	-104.809	0.020	0.016	0.831	1.418	1.172	1.124	0.481	1.798
Fine Dust	HALE1	20.809	-156.282	0.000	0.952	0.171	0.169	0.172	0.170	0.033	-0.039
Fine Dust	HAVO1	19.431	-155.258	-0.001	0.052	0.086	0.057	0.074	0.068	0.028	-1.450
Fine Dust	JARB1	41.893	-115.426	0.000	0.822	0.543	0.530	0.550	0.536	0.142	-0.083
Fine Dust	LAVO1	40.54	-121.577	-0.002	0.246	0.404	0.346	0.364	0.375	0.106	-0.538
Fine Dust	LYBR1	43.148	-73.127	-0.005	0.061	0.242	0.099	0.203	0.183	0.051	-2.698
Fine Dust	MACA1	37.132	-86.148	-0.010	0.018	0.601	0.317	0.419	0.450	0.123	-2.177
Fine Dust	MEVE1	37.198	-108.491	0.000	0.957	0.548	0.562	0.558	0.555	0.153	0.085
Fine Dust	MOOS1	45.126	-67.266	-0.007	0.000	0.307	0.104	0.172	0.188	0.060	-3.718
Fine Dust	MORA1	46.758	-122.124	-0.003	0.000	0.182	0.082	0.123	0.130	0.037	-2.652
Fine Dust	MOZI1	40.538	-106.677	-0.006	0.037	0.440	0.276	0.330	0.341	0.084	-1.649
Fine Dust	OKEF1	30.74	-82.128	-0.006	0.036	0.517	0.351	0.404	0.428	0.106	-1.338
Fine Dust	PEFO1	35.078	-109.769	0.004	0.205	0.643	0.755	0.747	0.699	0.157	0.551
Fine Dust	PINN1	36.483	-121.157	-0.002	0.021	0.392	0.320	0.355	0.356	0.051	-0.700
Fine Dust	PORE1	38.122	-122.909	0.000	0.708	0.161	0.168	0.167	0.164	0.028	0.160
Fine Dust	REDW1	41.561	-124.084	-0.001	0.000	0.124	0.083	0.104	0.103	0.021	-1.361
Fine Dust	ROMA1	32.941	-79.657	-0.008	0.004	0.518	0.293	0.376	0.386	0.096	-2.015
Fine Dust	ROMO1	40.278	-105.546	-0.006	0.002	0.544	0.384	0.454	0.461	0.083	-1.196
Fine Dust	SAGO1	34.194	-116.913	-0.014	0.000	0.850	0.447	0.647	0.635	0.158	-2.191
Fine Dust	SAGU1	32.175	-110.737	-0.012	0.446	1.559	1.212	1.419	1.338	0.513	-0.896
Fine Dust	SAWT1	44.171	-114.927	-0.004	0.118	0.335	0.229	0.284	0.275	0.068	-1.327
Fine Dust	SEQU1	36.489	-118.829	-0.007	0.236	0.871	0.660	0.877	0.758	0.362	-0.960
Fine Dust	SHEN1	38.523	-78.435	-0.009	0.000	0.465	0.206	0.312	0.335	0.098	-2.664
Fine Dust	SHRO1	35.394	-82.774	-0.014	0.000	0.574	0.176	0.330	0.334	0.132	-4.106
Fine Dust	SIPS1	34.343	-87.339	-0.013	0.000	0.707	0.342	0.482	0.506	0.138	-2.490
Fine Dust	SNPA1	47.422	-121.426	-0.004	0.000	0.197	0.081	0.128	0.129	0.041	-3.112

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Fine Dust	SULA1	45.86	-114	-0.004	0.029	0.264	0.141	0.210	0.194	0.070	-2.171
Fine Dust	THSI1	44.291	-122.043	-0.001	0.209	0.169	0.128	0.148	0.146	0.035	-0.981
Fine Dust	TONT1	33.655	-111.107	0.006	0.133	0.830	1.007	0.940	0.922	0.190	0.665
Fine Dust	UPBU1	35.826	-93.203	-0.007	0.027	0.616	0.408	0.481	0.505	0.119	-1.425
Fine Dust	VIIS1	18.336	-64.796	-0.016	0.197	0.925	0.459	0.804	0.676	0.406	-2.376
Fine Dust	WEMI1	37.659	-107.8	-0.002	0.121	0.405	0.346	0.393	0.376	0.070	-0.534
Fine Dust	WHRI1	39.154	-106.821	0.003	0.193	0.311	0.386	0.371	0.353	0.081	0.733
Fine Dust	YELL2	44.565	-110.4	-0.011	0.000	0.414	0.105	0.298	0.260	0.131	-4.095
Fine Dust	YOSE1	37.713	-119.706	-0.001	0.682	0.526	0.505	0.493	0.515	0.089	-0.138
FM	ACAD1	44.377	-68.261	-0.127	0.000	5.237	1.541	3.835	3.389	1.250	-3.761
FM	BADL1	43.743	-101.941	-0.056	0.000	3.869	2.246	3.225	3.057	0.595	-1.831
FM	BAND1	35.78	-106.266	-0.044	0.000	3.419	2.154	2.885	2.787	0.474	-1.565
FM	BIBE1	29.303	-103.178	-0.046	0.002	5.869	4.533	5.069	5.201	0.856	-0.886
FM	BLIS1	38.976	-120.103	-0.048	0.000	3.290	1.912	2.581	2.553	0.511	-1.861
FM	BOWA1	47.947	-91.495	-0.071	0.000	4.160	2.112	3.112	2.995	0.710	-2.358
FM	BRCA1	37.618	-112.174	-0.043	0.000	2.991	1.743	2.377	2.345	0.447	-1.835
FM	BRID1	42.975	-109.758	-0.038	0.000	2.423	1.331	1.937	1.877	0.379	-2.006
FM	BRIG1	39.465	-74.449	-0.231	0.000	11.489	4.795	7.511	7.911	1.931	-2.918
FM	CANY1	38.459	-109.821	-0.054	0.000	3.388	1.823	2.655	2.606	0.499	-2.072
FM	CHAS1	28.748	-82.555	-0.196	0.000	10.881	5.189	7.619	7.545	1.863	-2.601
FM	CHIR1	32.009	-109.389	-0.044	0.000	3.759	2.487	3.283	3.123	0.529	-1.405
FM	CORI1	45.664	-121.001	-0.063	0.000	5.503	3.689	4.370	4.408	0.653	-1.419
FM	CRLA1	42.896	-122.136	-0.035	0.000	2.180	1.174	1.626	1.590	0.356	-2.181
FM	CRMO1	43.46	-113.555	-0.053	0.000	3.008	1.475	2.339	2.162	0.525	-2.443
FM	DENA1	63.723	-148.967	-0.027	0.000	1.413	0.629	1.117	1.021	0.383	-2.648
FM	DOSO1	39.105	-79.426	-0.273	0.000	11.070	3.167	7.124	6.846	2.373	-3.981
FM	EVER1	25.391	-80.681	-0.124	0.000	7.647	4.041	5.987	5.533	1.490	-2.247
FM	GICL1	33.22	-108.235	-0.066	0.000	3.675	1.755	2.832	2.582	0.619	-2.563
FM	GLAC1	48.511	-113.997	-0.080	0.000	5.113	2.785	4.026	3.949	0.811	-2.033
FM	GRBA1	39.005	-114.216	-0.034	0.000	2.644	1.659	2.175	2.100	0.414	-1.617
FM	GRCA2	36.066	-112.154	-0.037	0.000	3.006	1.929	2.588	2.449	0.458	-1.517
FM	GRSA1	37.725	-105.519	-0.035	0.000	3.260	2.245	2.742	2.753	0.426	-1.272
FM	GRSM1	35.633	-83.942	-0.268	0.000	12.831	5.067	8.265	8.949	2.618	-2.992
FM	GUMO1	31.833	-104.809	-0.027	0.056	5.027	4.240	4.468	4.634	0.625	-0.586
FM	HALE1	20.809	-156.282	-0.040	0.000	2.991	1.838	2.545	2.554	0.294	-1.558
FM	HAVO1	19.431	-155.258	-0.001	0.888	1.924	1.889	1.951	1.902	0.363	-0.062
FM	JARB1	41.893	-115.426	-0.032	0.000	2.542	1.625	2.137	2.068	0.389	-1.529

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
FM	LAVO1	40.54	-121.577	-0.033	0.000	2.691	1.722	2.249	2.207	0.415	-1.515
FM	MACA1	37.132	-86.148	-0.294	0.000	13.746	5.208	9.095	9.183	2.495	-3.206
FM	MEVE1	37.198	-108.491	-0.051	0.000	3.362	1.896	2.644	2.629	0.549	-1.922
FM	MOOS1	45.126	-67.266	-0.105	0.000	5.120	2.066	3.479	3.330	0.930	-3.163
FM	MORA1	46.758	-122.124	-0.101	0.000	4.384	1.452	3.039	2.868	1.009	-3.525
FM	MOZI1	40.538	-106.677	-0.033	0.000	2.320	1.352	1.828	1.736	0.331	-1.922
FM	OKEF1	30.74	-82.128	-0.212	0.000	10.921	4.775	7.854	7.636	1.960	-2.775
FM	PEFO1	35.078	-109.769	-0.056	0.000	4.003	2.370	3.240	3.187	0.594	-1.767
FM	PINN1	36.483	-121.157	-0.092	0.000	5.524	2.847	4.427	4.185	0.933	-2.205
FM	PORE1	38.122	-122.909	-0.058	0.001	6.104	4.416	5.375	5.260	0.807	-1.106
FM	REDW1	41.561	-124.084	-0.069	0.000	4.035	2.033	3.206	3.034	0.742	-2.276
FM	ROMA1	32.941	-79.657	-0.250	0.000	11.693	4.443	7.957	7.443	1.996	-3.359
FM	ROMO1	40.278	-105.546	-0.051	0.000	3.060	1.580	2.411	2.294	0.503	-2.223
FM	SAGO1	34.194	-116.913	-0.194	0.000	7.669	2.040	5.289	4.661	2.007	-4.164
FM	SAGU1	32.175	-110.737	-0.069	0.000	5.534	3.540	4.368	4.262	0.818	-1.613
FM	SAWT1	44.171	-114.927	-0.036	0.000	2.568	1.518	1.987	1.970	0.382	-1.838
FM	SEQU1	36.489	-118.829	-0.164	0.000	10.336	5.569	8.036	7.788	1.631	-2.111
FM	SHEN1	38.523	-78.435	-0.225	0.000	10.539	4.005	7.053	7.272	2.057	-3.098
FM	SHRO1	35.394	-82.774	-0.220	0.000	9.103	2.722	5.395	5.253	1.863	-4.189
FM	SIPS1	34.343	-87.339	-0.323	0.000	14.886	5.526	9.395	9.722	2.849	-3.320
FM	SNPA1	47.422	-121.426	-0.071	0.000	3.155	1.092	2.160	1.946	0.660	-3.656
FM	SULA1	45.86	-114	-0.040	0.000	2.316	1.160	1.692	1.658	0.382	-2.402
FM	THSI1	44.291	-122.043	-0.036	0.002	2.419	1.386	1.899	1.831	0.442	-1.944
FM	TONT1	33.655	-111.107	-0.055	0.000	4.902	3.319	4.054	4.083	0.556	-1.337
FM	UPBU1	35.826	-93.203	-0.186	0.000	10.486	5.083	7.468	7.598	1.683	-2.452
FM	VIIS1	18.336	-64.796	-0.018	0.303	5.299	4.788	4.980	5.017	0.958	-0.351
FM	WEMI1	37.659	-107.8	-0.040	0.000	2.722	1.551	2.199	2.137	0.392	-1.889
FM	WHRI1	39.154	-106.821	-0.033	0.000	2.344	1.384	1.813	1.798	0.334	-1.841
FM	YELL2	44.565	-110.4	-0.055	0.000	2.771	1.184	2.061	1.950	0.587	-2.806
FM	YOSE1	37.713	-119.706	-0.049	0.000	4.274	2.846	3.665	3.560	0.618	-1.384
CM	ACAD1	44.377	-68.261	-0.053	0.034	3.078	1.529	2.726	2.303	0.959	-2.320
CM	BADL1	43.743	-101.941	-0.068	0.000	4.636	2.654	3.712	3.645	0.784	-1.874
CM	BAND1	35.78	-106.266	-0.041	0.003	3.224	2.022	2.849	2.623	0.869	-1.580
CM	BIBE1	29.303	-103.178	-0.057	0.056	6.195	4.555	5.469	5.347	1.350	-1.058
CM	BLIS1	38.976	-120.103	-0.013	0.366	2.173	1.805	2.054	1.976	0.460	-0.643
CM	BOWA1	47.947	-91.495	-0.029	0.002	2.369	1.540	1.949	1.898	0.429	-1.506
CM	BRCA1	37.618	-112.174	-0.035	0.004	2.784	1.767	2.346	2.258	0.725	-1.553

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
CM	BRID1	42.975	-109.758	-0.059	0.000	2.156	0.453	1.651	1.304	0.746	-4.503
CM	BRIG1	39.465	-74.449	-0.098	0.162	8.513	5.660	7.443	6.939	2.312	-1.418
CM	CANY1	38.459	-109.821	-0.079	0.000	4.114	1.817	3.269	2.966	1.069	-2.671
CM	CHAS1	28.748	-82.555	-0.089	0.002	6.596	4.018	5.623	5.085	1.367	-1.748
CM	CHIR1	32.009	-109.389	-0.011	0.382	4.586	4.276	4.456	4.431	0.788	-0.241
CM	CORI1	45.664	-121.001	0.065	0.112	5.503	7.402	6.598	6.649	2.024	0.985
CM	CRLA1	42.896	-122.136	-0.056	0.000	1.983	0.363	1.317	1.033	0.731	-5.406
CM	DENA1	63.723	-148.967	-0.048	0.000	1.673	0.295	1.297	0.984	0.676	-4.830
CM	DOSO1	39.105	-79.426	-0.027	0.175	2.658	1.888	2.380	2.233	0.643	-1.189
CM	GICL1	33.22	-108.235	-0.039	0.193	2.913	1.784	2.554	2.271	0.750	-1.716
CM	GLAC1	48.511	-113.997	-0.082	0.000	3.557	1.178	2.827	2.368	1.351	-3.464
CM	GRBA1	39.005	-114.216	-0.037	0.004	2.906	1.836	2.398	2.316	0.530	-1.594
CM	GRCA2	36.066	-112.154	-0.093	0.000	3.599	0.907	2.801	2.300	1.313	-4.037
CM	GRSA1	37.725	-105.519	-0.061	0.000	3.546	1.779	3.062	2.663	1.001	-2.288
CM	GRSM1	35.633	-83.942	-0.055	0.006	4.214	2.608	3.542	3.411	0.814	-1.623
CM	GUMO1	31.833	-104.809	0.043	0.139	5.322	6.566	6.407	5.944	1.641	0.722
CM	JARB1	41.893	-115.426	-0.046	0.001	2.914	1.577	2.603	2.176	1.234	-2.117
CM	LAVO1	40.54	-121.577	-0.008	0.556	1.760	1.535	1.873	1.648	0.831	-0.470
CM	MACA1	37.132	-86.148	-0.028	0.221	4.164	3.338	3.772	3.723	0.917	-0.765
CM	MEVE1	37.198	-108.491	-0.032	0.031	2.600	1.685	2.349	2.142	0.677	-1.473
CM	MOOS1	45.126	-67.266	-0.048	0.000	2.773	1.394	2.163	1.965	0.644	-2.420
CM	MORA1	46.758	-122.124	-0.060	0.000	2.700	0.970	2.042	1.805	0.646	-3.305
CM	MOZI1	40.538	-106.677	-0.076	0.000	2.923	0.706	1.938	1.585	0.826	-4.824
CM	OKEF1	30.74	-82.128	-0.077	0.100	5.655	3.421	4.899	4.422	1.507	-1.742
CM	PEFO1	35.078	-109.769	0.005	0.736	3.330	3.463	3.361	3.399	0.706	0.135
CM	PINN1	36.483	-121.157	-0.086	0.012	6.939	4.459	5.748	5.699	1.410	-1.501
CM	PORE1	38.122	-122.909	-0.093	0.000	8.558	5.856	7.291	7.207	1.657	-1.293
CM	REDW1	41.561	-124.084	-0.064	0.002	4.535	2.673	3.769	3.604	0.891	-1.781
CM	ROMA1	32.941	-79.657	-0.071	0.123	6.614	4.563	5.764	5.412	1.453	-1.307
CM	ROMO1	40.278	-105.546	-0.063	0.000	3.255	1.434	2.505	2.313	0.828	-2.715
CM	SAGO1	34.194	-116.913	-0.124	0.000	7.107	3.505	5.618	5.181	1.836	-2.397
CM	SAGU1	32.175	-110.737	0.013	0.756	6.403	6.790	6.622	6.650	1.004	0.201
CM	SEQU1	36.489	-118.829	-0.049	0.321	7.895	6.467	7.944	7.083	2.198	-0.695
CM	SHEN1	38.523	-78.435	-0.071	0.002	4.010	1.940	3.228	2.975	1.018	-2.400
CM	SHRO1	35.394	-82.774	0.006	0.853	1.719	1.889	2.213	1.825	1.113	0.321
CM	SIPS1	34.343	-87.339	-0.063	0.000	5.075	3.258	4.241	4.041	0.718	-1.551
CM	SNPA1	47.422	-121.426	-0.031	0.017	1.427	0.539	1.039	0.891	0.539	-3.439

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
CM	THSI1	44.291	-122.043	-0.034	0.102	1.894	0.907	1.419	1.315	0.614	-2.589
CM	TONT1	33.655	-111.107	-0.035	0.036	6.125	5.117	5.598	5.604	1.036	-0.620
CM	UPBU1	35.826	-93.203	-0.075	0.064	6.172	3.997	4.995	4.972	1.400	-1.508
CM	WEMI1	37.659	-107.8	-0.058	0.000	2.835	1.139	2.329	1.987	0.773	-2.944
CM	YELL2	44.565	-110.4	-0.062	0.000	2.173	0.380	1.773	1.246	1.187	-4.963
CM	YOSE1	37.713	-119.706	-0.023	0.104	4.026	3.359	3.607	3.693	0.781	-0.622
PM10	ACAD1	44.377	-68.261	-0.197	0.000	8.679	2.960	6.930	5.820	2.228	-3.389
PM10	BADL1	43.743	-101.941	-0.133	0.000	8.600	4.748	7.006	6.674	1.335	-1.990
PM10	BAND1	35.78	-106.266	-0.095	0.000	6.906	4.157	5.916	5.531	1.225	-1.714
PM10	BIBE1	29.303	-103.178	-0.114	0.003	12.146	8.827	11.002	10.429	1.999	-1.097
PM10	BLIS1	38.976	-120.103	-0.058	0.009	5.650	3.957	4.836	4.745	0.959	-1.230
PM10	BOWA1	47.947	-91.495	-0.104	0.000	6.620	3.591	5.185	4.897	1.168	-2.133
PM10	BRCA1	37.618	-112.174	-0.081	0.000	5.752	3.416	4.765	4.544	1.127	-1.773
PM10	BRID1	42.975	-109.758	-0.095	0.000	4.917	2.161	3.764	3.539	1.131	-2.685
PM10	BRIG1	39.465	-74.449	-0.346	0.000	20.346	10.303	15.748	14.805	3.514	-2.339
PM10	CANY1	38.459	-109.821	-0.126	0.000	7.523	3.857	6.071	5.690	1.456	-2.221
PM10	CHAS1	28.748	-82.555	-0.311	0.000	17.761	8.732	13.596	12.779	2.896	-2.436
PM10	CHIR1	32.009	-109.389	-0.071	0.007	9.057	6.986	7.956	8.022	1.184	-0.890
PM10	CORI1	45.664	-121.001	0.047	0.261	10.577	11.949	11.393	11.357	1.982	0.416
PM10	CRLA1	42.896	-122.136	-0.100	0.000	4.362	1.464	3.086	2.763	1.059	-3.617
PM10	DENA1	63.723	-148.967	-0.073	0.000	3.164	1.038	2.571	2.101	1.079	-3.490
PM10	DOSO1	39.105	-79.426	-0.344	0.000	14.284	4.298	9.743	8.775	2.929	-3.924
PM10	GICL1	33.22	-108.235	-0.128	0.000	7.143	3.426	5.632	5.028	1.295	-2.550
PM10	GLAC1	48.511	-113.997	-0.173	0.000	9.400	4.392	7.331	6.896	1.878	-2.504
PM10	GRBA1	39.005	-114.216	-0.083	0.000	5.899	3.490	4.668	4.570	0.900	-1.818
PM10	GRCA2	36.066	-112.154	-0.138	0.000	6.817	2.804	5.561	4.880	1.795	-2.836
PM10	GRSA1	37.725	-105.519	-0.093	0.000	6.879	4.172	5.959	5.525	1.397	-1.689
PM10	GRSM1	35.633	-83.942	-0.323	0.000	17.113	7.741	12.464	12.427	3.167	-2.601
PM10	GUMO1	31.833	-104.809	0.008	0.844	10.531	10.757	11.159	10.644	2.097	0.073
PM10	JARB1	41.893	-115.426	-0.082	0.003	5.714	3.327	4.818	4.397	1.536	-1.872
PM10	LAVO1	40.54	-121.577	-0.056	0.001	4.970	3.346	4.402	4.158	0.991	-1.347
PM10	MACA1	37.132	-86.148	-0.321	0.000	17.890	8.584	13.108	12.916	2.922	-2.484
PM10	MEVE1	37.198	-108.491	-0.084	0.000	6.108	3.679	5.135	4.893	1.091	-1.711
PM10	MOOS1	45.126	-67.266	-0.176	0.000	8.150	3.047	5.857	5.159	1.750	-3.411
PM10	MORA1	46.758	-122.124	-0.174	0.000	7.231	2.175	5.263	4.616	1.750	-3.777
PM10	MOZI1	40.538	-106.677	-0.129	0.000	5.855	2.108	3.954	3.594	1.146	-3.595
PM10	OKEF1	30.74	-82.128	-0.289	0.000	16.344	7.951	13.161	11.858	3.003	-2.441



Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
PM10	PEFO1	35.078	-109.769	-0.039	0.048	6.934	5.801	6.661	6.367	1.093	-0.613
PM10	PINN1	36.483	-121.157	-0.172	0.000	12.225	7.243	10.308	9.734	2.183	-1.765
PM10	PORE1	38.122	-122.909	-0.189	0.000	15.335	9.846	13.149	12.591	2.353	-1.503
PM10	REDW1	41.561	-124.084	-0.134	0.000	8.835	4.949	7.072	6.892	1.587	-1.944
PM10	ROMA1	32.941	-79.657	-0.348	0.000	19.191	9.096	14.157	13.273	3.187	-2.622
PM10	ROMO1	40.278	-105.546	-0.109	0.000	6.652	3.488	5.070	5.015	1.292	-2.176
PM10	SAGO1	34.194	-116.913	-0.327	0.000	15.306	5.820	11.303	10.236	3.662	-3.195
PM10	SAGU1	32.175	-110.737	-0.074	0.052	12.343	10.192	11.027	10.971	1.245	-0.676
PM10	SEQU1	36.489	-118.829	-0.228	0.014	20.178	13.556	16.760	16.410	3.168	-1.391
PM10	SHEN1	38.523	-78.435	-0.303	0.000	14.401	5.627	10.676	10.014	3.067	-3.021
PM10	SHRO1	35.394	-82.774	-0.297	0.000	13.028	4.423	8.129	7.687	2.748	-3.860
PM10	SIPS1	34.343	-87.339	-0.408	0.000	20.949	9.113	14.049	14.215	3.824	-2.871
PM10	SNPA1	47.422	-121.426	-0.110	0.000	4.870	1.667	3.271	2.937	1.185	-3.761
PM10	THSI1	44.291	-122.043	-0.076	0.002	4.501	2.285	3.413	3.202	0.910	-2.386
PM10	TONT1	33.655	-111.107	-0.092	0.000	10.995	8.322	9.753	9.613	1.278	-0.959
PM10	UPBU1	35.826	-93.203	-0.273	0.000	18.331	10.406	12.811	13.959	2.692	-1.958
PM10	WEMI1	37.659	-107.8	-0.111	0.000	5.859	2.644	4.645	4.251	1.222	-2.607
PM10	YELL2	44.565	-110.4	-0.139	0.000	5.200	1.154	3.875	3.177	1.614	-4.391
PM10	YOSE1	37.713	-119.706	-0.087	0.001	8.460	5.924	7.485	7.192	1.220	-1.216

**Table 6.3.3. IMPROVE long-term (1990–2019) 90<sup>th</sup> percentile mass trends for sites that met completeness criteria (see Chapter 6). Species include sulfate ion (SO<sub>4</sub>), nitrate ion (NO<sub>3</sub>), organic carbon (OC), elemental carbon (EC), fine dust (FD), gravimetric PM<sub>2.5</sub> mass (FM), coarse mass (CM), and gravimetric PM<sub>10</sub> mass (PM<sub>10</sub>). The slope is derived from a linear trend regression, beginning and end year concentrations are based on the linear fit for year 1990 and 2019, the mean and median 90<sup>th</sup> percentile concentrations over the 1990-2019 period, standard deviation in the mean over the 1990-2019 period, and trend is the slope divided by the median concentration times 100.**

Species	Site	Lat (°)	Lon (°)	Slope (µg m <sup>-3</sup> yr <sup>-1</sup> )	Statistical Significance (p)	Beg. Year (µg m <sup>-3</sup> )	End Year (µg m <sup>-3</sup> )	Mean (µg m <sup>-3</sup> )	Median (µg m <sup>-3</sup> )	Standard Deviation (µg m <sup>-3</sup> )	Trend (% yr <sup>-1</sup> )
SO4	ACAD1	44.377	-68.261	-0.181	0.000	6.160	0.921	3.331	3.541	1.733	-5.102
SO4	BADL1	43.743	-101.941	-0.046	0.000	2.525	1.180	1.736	1.852	0.502	-2.505
SO4	BAND1	35.78	-106.266	-0.027	0.000	1.553	0.769	1.136	1.161	0.273	-2.327
SO4	BIBE1	29.303	-103.178	-0.028	0.031	3.824	3.024	3.440	3.424	0.650	-0.805
SO4	BLIS1	38.976	-120.103	-0.016	0.000	1.169	0.718	0.907	0.928	0.158	-1.677
SO4	BOWA1	47.947	-91.495	-0.094	0.000	3.854	1.136	2.117	2.308	0.865	-4.061
SO4	BRCA1	37.618	-112.174	-0.025	0.000	1.308	0.583	0.952	0.933	0.238	-2.677
SO4	BRID1	42.975	-109.758	-0.019	0.000	1.093	0.541	0.760	0.817	0.179	-2.329
SO4	BRIG1	39.465	-74.449	-0.380	0.000	13.184	2.167	6.380	7.296	3.225	-5.207
SO4	CANY1	38.459	-109.821	-0.033	0.000	1.422	0.478	0.994	0.950	0.295	-3.429
SO4	CHAS1	28.748	-82.555	-0.231	0.000	8.802	2.114	4.528	5.112	1.954	-4.511
SO4	CHIR1	32.009	-109.389	-0.040	0.000	2.073	0.917	1.586	1.495	0.409	-2.666
SO4	CORI1	45.664	-121.001	-0.052	0.000	2.231	0.720	1.426	1.371	0.463	-3.801
SO4	CRLA1	42.896	-122.136	-0.012	0.000	0.833	0.491	0.629	0.656	0.120	-1.800
SO4	CRMO1	43.46	-113.555	-0.017	0.000	0.994	0.496	0.684	0.693	0.153	-2.481
SO4	DENA1	63.723	-148.967	-0.007	0.061	0.818	0.620	0.729	0.719	0.254	-0.948
SO4	DOSO1	39.105	-79.426	-0.458	0.000	15.552	2.270	7.453	8.453	3.989	-5.418
SO4	EVER1	25.391	-80.681	-0.122	0.000	5.592	2.064	3.314	3.402	1.094	-3.575
SO4	GICL1	33.22	-108.235	-0.044	0.000	1.907	0.628	1.201	1.179	0.361	-3.740
SO4	GLAC1	48.511	-113.997	-0.029	0.000	1.484	0.632	1.023	1.058	0.288	-2.776
SO4	GRBA1	39.005	-114.216	-0.016	0.000	1.106	0.630	0.814	0.843	0.156	-1.944
SO4	GRCA2	36.066	-112.154	-0.028	0.000	1.428	0.629	1.067	1.015	0.263	-2.718
SO4	GRSA1	37.725	-105.519	-0.021	0.000	1.206	0.598	0.887	0.902	0.210	-2.323
SO4	GRSM1	35.633	-83.942	-0.414	0.000	14.851	2.851	7.395	8.851	3.894	-4.675
SO4	GUMO1	31.833	-104.809	-0.030	0.000	2.577	1.703	2.191	2.140	0.440	-1.409
SO4	HAVO1	19.431	-155.258	0.015	0.763	5.453	5.890	6.160	5.740	2.702	0.263
SO4	JARB1	41.893	-115.426	-0.009	0.000	0.827	0.558	0.668	0.688	0.109	-1.346
SO4	LAVO1	40.54	-121.577	-0.015	0.000	1.085	0.661	0.819	0.859	0.164	-1.703
SO4	LYBR1	43.148	-73.127	-0.203	0.004	7.931	2.054	5.116	5.499	1.664	-3.685
SO4	MACA1	37.132	-86.148	-0.403	0.000	14.609	2.934	7.315	8.369	3.456	-4.810
SO4	MEVE1	37.198	-108.491	-0.030	0.000	1.421	0.562	1.002	0.992	0.277	-2.987
SO4	MOOS1	45.126	-67.266	-0.155	0.000	5.094	0.604	2.586	2.462	1.233	-6.289

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
SO4	MORA1	46.758	-122.124	-0.067	0.000	2.195	0.251	1.429	1.190	0.633	-5.635
SO4	MOZI1	40.538	-106.677	-0.026	0.000	1.243	0.488	0.762	0.787	0.212	-3.307
SO4	OKEF1	30.74	-82.128	-0.251	0.000	9.450	2.170	4.959	5.559	2.139	-4.515
SO4	PEFO1	35.078	-109.769	-0.031	0.000	1.631	0.738	1.203	1.184	0.313	-2.600
SO4	PINN1	36.483	-121.157	-0.042	0.000	2.344	1.113	1.621	1.728	0.413	-2.454
SO4	PORE1	38.122	-122.909	-0.047	0.000	2.708	1.358	1.904	2.033	0.481	-2.291
SO4	REDW1	41.561	-124.084	-0.029	0.000	1.609	0.763	1.201	1.186	0.292	-2.460
SO4	ROMA1	32.941	-79.657	-0.288	0.000	10.482	2.144	5.203	5.594	2.419	-5.139
SO4	ROMO1	40.278	-105.546	-0.028	0.000	1.406	0.597	0.962	0.988	0.267	-2.825
SO4	SAGO1	34.194	-116.913	-0.052	0.000	2.664	1.150	1.779	1.855	0.515	-2.815
SO4	SAGU1	32.175	-110.737	-0.040	0.000	2.321	1.150	1.597	1.574	0.391	-2.564
SO4	SAWT1	44.171	-114.927	-0.010	0.002	0.774	0.499	0.593	0.608	0.098	-1.565
SO4	SEQU1	36.489	-118.829	-0.046	0.000	3.048	1.727	2.310	2.342	0.475	-1.945
SO4	SHEN1	38.523	-78.435	-0.401	0.000	14.901	3.262	7.588	9.082	3.984	-4.419
SO4	SHRO1	35.394	-82.774	-0.431	0.000	13.437	0.937	5.630	5.894	3.244	-7.313
SO4	SIPS1	34.343	-87.339	-0.398	0.000	13.996	2.452	6.742	7.627	3.541	-5.219
SO4	SNPA1	47.422	-121.426	-0.045	0.000	1.751	0.432	1.083	0.955	0.431	-4.762
SO4	SULA1	45.86	-114	-0.016	0.000	0.908	0.449	0.618	0.631	0.135	-2.509
SO4	THSI1	44.291	-122.043	-0.028	0.000	1.299	0.496	0.845	0.842	0.241	-3.289
SO4	TONT1	33.655	-111.107	-0.032	0.000	2.046	1.116	1.550	1.565	0.316	-2.050
SO4	UPBU1	35.826	-93.203	-0.232	0.000	8.971	2.230	4.942	5.368	2.039	-4.331
SO4	WEMI1	37.659	-107.8	-0.025	0.000	1.224	0.494	0.869	0.859	0.237	-2.931
SO4	WHRI1	39.154	-106.821	-0.024	0.000	1.106	0.415	0.692	0.689	0.182	-3.461
SO4	YELL2	44.565	-110.4	-0.013	0.000	0.913	0.532	0.691	0.723	0.134	-1.820
SO4	YOSE1	37.713	-119.706	-0.020	0.000	1.605	1.018	1.284	1.311	0.248	-1.544
NO3	ACAD1	44.377	-68.261	-0.016	0.000	0.869	0.398	0.610	0.593	0.203	-2.742
NO3	BADL1	43.743	-101.941	-0.011	0.135	0.925	0.604	0.852	0.737	0.283	-1.502
NO3	BAND1	35.78	-106.266	-0.005	0.008	0.430	0.272	0.329	0.338	0.087	-1.612
NO3	BIBE1	29.303	-103.178	-0.002	0.148	0.392	0.344	0.383	0.364	0.059	-0.449
NO3	BLIS1	38.976	-120.103	-0.010	0.000	0.512	0.213	0.364	0.337	0.117	-3.060
NO3	BOWA1	47.947	-91.495	-0.013	0.178	1.370	0.996	1.256	1.138	0.431	-1.131
NO3	BRCA1	37.618	-112.174	-0.007	0.000	0.482	0.269	0.360	0.354	0.085	-2.082
NO3	BRID1	42.975	-109.758	-0.001	0.161	0.269	0.227	0.237	0.244	0.043	-0.600
NO3	BRIG1	39.465	-74.449	-0.038	0.002	2.604	1.493	1.939	1.915	0.394	-2.001
NO3	CANY1	38.459	-109.821	-0.011	0.005	0.565	0.249	0.433	0.380	0.171	-2.872
NO3	CHAS1	28.748	-82.555	-0.009	0.000	0.783	0.508	0.601	0.607	0.090	-1.562
NO3	CHIR1	32.009	-109.389	-0.001	0.815	0.287	0.271	0.291	0.278	0.059	-0.189

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NO3	CRLA1	42.896	-122.136	-0.003	0.083	0.225	0.143	0.198	0.175	0.096	-1.620
NO3	DENA1	63.723	-148.967	-0.001	0.045	0.117	0.084	0.109	0.098	0.033	-1.160
NO3	DOSO1	39.105	-79.426	-0.018	0.001	1.351	0.831	1.019	1.028	0.221	-1.743
NO3	GICL1	33.22	-108.235	-0.002	0.053	0.236	0.192	0.207	0.208	0.031	-0.727
NO3	GLAC1	48.511	-113.997	-0.006	0.093	0.509	0.337	0.491	0.408	0.193	-1.452
NO3	GRBA1	39.005	-114.216	-0.006	0.000	0.349	0.173	0.244	0.237	0.056	-2.562
NO3	GRCA2	36.066	-112.154	-0.005	0.000	0.410	0.276	0.326	0.329	0.057	-1.403
NO3	GRSA1	37.725	-105.519	-0.007	0.002	0.385	0.189	0.295	0.270	0.089	-2.499
NO3	GRSM1	35.633	-83.942	-0.009	0.062	0.944	0.675	0.846	0.786	0.257	-1.178
NO3	GUMO1	31.833	-104.809	-0.001	0.744	0.447	0.432	0.465	0.438	0.109	-0.120
NO3	HAVO1	19.431	-155.258	-0.001	0.116	0.150	0.122	0.136	0.132	0.021	-0.726
NO3	JARB1	41.893	-115.426	-0.001	0.161	0.211	0.170	0.189	0.187	0.040	-0.759
NO3	LAVO1	40.54	-121.577	-0.008	0.014	0.425	0.203	0.328	0.287	0.123	-2.663
NO3	MACA1	37.132	-86.148	-0.031	0.119	2.882	1.972	2.262	2.317	0.580	-1.354
NO3	MEVE1	37.198	-108.491	-0.002	0.350	0.287	0.240	0.266	0.259	0.085	-0.626
NO3	MORA1	46.758	-122.124	-0.010	0.000	0.443	0.163	0.309	0.274	0.095	-3.531
NO3	OKEF1	30.74	-82.128	-0.009	0.000	0.712	0.440	0.584	0.543	0.089	-1.725
NO3	PEFO1	35.078	-109.769	-0.003	0.050	0.377	0.304	0.349	0.334	0.078	-0.753
NO3	PINN1	36.483	-121.157	-0.047	0.000	2.066	0.690	1.309	1.259	0.488	-3.768
NO3	PORE1	38.122	-122.909	-0.052	0.000	2.053	0.553	1.472	1.173	0.790	-4.409
NO3	REDW1	41.561	-124.084	-0.014	0.000	0.643	0.228	0.442	0.400	0.156	-3.581
NO3	ROMO1	40.278	-105.546	-0.010	0.002	0.750	0.458	0.629	0.574	0.210	-1.758
NO3	SAGO1	34.194	-116.913	-0.216	0.000	7.309	1.049	3.805	3.531	2.021	-6.113
NO3	SAGU1	32.175	-110.737	-0.011	0.000	0.752	0.432	0.547	0.548	0.115	-2.013
NO3	SEQU1	36.489	-118.829	-0.132	0.000	5.738	1.922	3.232	3.370	1.438	-3.905
NO3	SHEN1	38.523	-78.435	-0.020	0.004	1.726	1.137	1.387	1.381	0.279	-1.471
NO3	SIPS1	34.343	-87.339	-0.040	0.000	2.251	1.091	1.484	1.531	0.439	-2.613
NO3	THSI1	44.291	-122.043	-0.005	0.002	0.264	0.129	0.201	0.175	0.066	-2.660
NO3	TONT1	33.655	-111.107	-0.008	0.000	0.600	0.356	0.480	0.452	0.093	-1.861
NO3	UPBU1	35.826	-93.203	-0.062	0.000	3.150	1.364	1.940	2.042	0.576	-3.017
NO3	WEMI1	37.659	-107.8	-0.001	0.225	0.205	0.173	0.187	0.187	0.040	-0.598
NO3	YELL2	44.565	-110.4	-0.005	0.012	0.418	0.283	0.340	0.339	0.079	-1.369
NO3	YOSE1	37.713	-119.706	-0.015	0.002	0.927	0.488	0.693	0.670	0.221	-2.259
OC	ACAD1	44.377	-68.261	-0.039	0.000	2.330	1.209	1.824	1.769	0.431	-2.185
OC	BADL1	43.743	-101.941	-0.002	0.735	1.496	1.447	1.646	1.472	0.388	-0.116
OC	BAND1	35.78	-106.266	-0.015	0.005	1.490	1.041	1.263	1.266	0.263	-1.224
OC	BIBE1	29.303	-103.178	-0.020	0.000	1.572	0.994	1.374	1.283	0.425	-1.553

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
OC	BLIS1	38.976	-120.103	0.011	0.261	1.732	2.038	2.021	1.896	0.456	0.556
OC	BOWA1	47.947	-91.495	-0.022	0.076	2.169	1.531	1.891	1.795	0.479	-1.226
OC	BRCA1	37.618	-112.174	0.004	0.548	1.085	1.189	1.223	1.139	0.375	0.313
OC	BRID1	42.975	-109.758	0.009	0.402	1.178	1.444	1.518	1.311	0.804	0.699
OC	BRIG1	39.465	-74.449	-0.058	0.000	3.645	1.955	2.737	2.771	0.602	-2.104
OC	CANY1	38.459	-109.821	-0.005	0.193	0.994	0.847	0.983	0.920	0.225	-0.549
OC	CHAS1	28.748	-82.555	-0.052	0.000	3.797	2.275	2.948	2.957	0.569	-1.775
OC	CHIR1	32.009	-109.389	-0.013	0.028	1.118	0.754	0.971	0.936	0.262	-1.343
OC	CORI1	45.664	-121.001	-0.044	0.028	3.488	2.208	2.680	2.738	0.570	-1.611
OC	CRLA1	42.896	-122.136	0.004	0.786	1.642	1.767	3.113	1.711	3.742	0.251
OC	DENA1	63.723	-148.967	-0.006	0.363	0.865	0.680	1.046	0.773	1.004	-0.829
OC	DOSO1	39.105	-79.426	-0.061	0.000	3.459	1.688	2.432	2.512	0.610	-2.431
OC	GICL1	33.22	-108.235	-0.030	0.005	1.901	1.034	1.709	1.408	1.162	-2.126
OC	GLAC1	48.511	-113.997	-0.034	0.112	3.978	2.981	3.689	3.480	1.317	-0.988
OC	GRBA1	39.005	-114.216	-0.012	0.162	1.311	0.957	1.139	1.116	0.326	-1.094
OC	GRCA2	36.066	-112.154	-0.003	0.548	1.063	0.974	1.162	1.017	0.533	-0.302
OC	GRSA1	37.725	-105.519	0.003	0.487	1.087	1.162	1.197	1.124	0.264	0.232
OC	GRSM1	35.633	-83.942	-0.069	0.000	4.010	2.018	3.026	3.014	0.753	-2.278
OC	GUMO1	31.833	-104.809	-0.006	0.159	1.193	1.020	1.166	1.106	0.211	-0.540
OC	HAVO1	19.431	-155.258	-0.004	0.365	0.395	0.274	0.355	0.316	0.163	-1.330
OC	JARB1	41.893	-115.426	0.016	0.144	1.181	1.657	1.617	1.436	0.668	1.143
OC	LAVO1	40.54	-121.577	0.010	0.464	1.791	2.094	2.695	1.942	2.216	0.537
OC	MACA1	37.132	-86.148	-0.059	0.000	4.009	2.307	3.091	3.099	0.659	-1.893
OC	MEVE1	37.198	-108.491	-0.004	0.402	0.997	0.873	1.008	0.935	0.267	-0.458
OC	MOOS1	45.126	-67.266	-0.029	0.000	2.201	1.362	1.726	1.709	0.305	-1.692
OC	MORA1	46.758	-122.124	-0.084	0.000	3.792	1.362	2.525	2.535	0.798	-3.305
OC	MOZI1	40.538	-106.677	0.009	0.519	0.943	1.204	1.165	1.101	0.346	0.820
OC	OKEF1	30.74	-82.128	-0.043	0.007	3.780	2.531	3.273	3.113	1.027	-1.383
OC	PEFO1	35.078	-109.769	-0.007	0.121	1.246	1.041	1.194	1.143	0.302	-0.620
OC	PINN1	36.483	-121.157	-0.045	0.000	2.686	1.372	2.065	2.029	0.544	-2.234
OC	PORE1	38.122	-122.909	-0.040	0.000	1.968	0.798	1.617	1.383	0.556	-2.917
OC	REDW1	41.561	-124.084	-0.035	0.005	1.937	0.918	1.585	1.427	0.673	-2.463
OC	ROMA1	32.941	-79.657	-0.056	0.000	3.967	2.329	3.042	3.007	0.561	-1.879
OC	ROMO1	40.278	-105.546	-0.001	0.881	1.350	1.318	1.423	1.334	0.318	-0.083
OC	SAGO1	34.194	-116.913	-0.071	0.000	3.117	1.062	2.126	2.018	0.637	-3.511
OC	SAGU1	32.175	-110.737	-0.017	0.003	1.301	0.807	1.067	0.986	0.290	-1.726
OC	SEQU1	36.489	-118.829	-0.066	0.016	5.047	3.122	4.195	3.952	1.470	-1.679

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
OC	SHEN1	38.523	-78.435	-0.054	0.000	3.348	1.776	2.556	2.562	0.594	-2.116
OC	SHRO1	35.394	-82.774	-0.052	0.001	3.299	1.781	2.331	2.409	0.512	-2.172
OC	SIPS1	34.343	-87.339	-0.073	0.000	4.587	2.463	3.491	3.415	0.785	-2.145
OC	SNPA1	47.422	-121.426	-0.031	0.102	2.504	1.602	2.004	1.960	0.558	-1.588
OC	THSI1	44.291	-122.043	-0.018	0.261	2.575	2.042	2.376	2.272	0.807	-0.810
OC	TONT1	33.655	-111.107	-0.020	0.003	1.550	0.981	1.321	1.256	0.348	-1.561
OC	UPBU1	35.826	-93.203	-0.045	0.000	3.610	2.307	2.958	2.913	0.584	-1.542
OC	WEMI1	37.659	-107.8	0.005	0.344	0.958	1.107	1.095	1.032	0.306	0.498
OC	YELL2	44.565	-110.4	0.013	0.487	1.504	1.878	1.919	1.691	0.732	0.761
OC	YOSE1	37.713	-119.706	-0.001	0.901	2.602	2.582	3.717	2.592	3.460	-0.026
EC	ACAD1	44.377	-68.261	-0.017	0.000	0.651	0.162	0.402	0.406	0.166	-4.152
EC	BADL1	43.743	-101.941	-0.003	0.026	0.276	0.181	0.234	0.229	0.065	-1.429
EC	BAND1	35.78	-106.266	-0.007	0.000	0.339	0.149	0.249	0.244	0.068	-2.686
EC	BIBE1	29.303	-103.178	-0.006	0.000	0.334	0.170	0.262	0.252	0.066	-2.252
EC	BLIS1	38.976	-120.103	-0.004	0.004	0.377	0.247	0.288	0.308	0.062	-1.453
EC	BOWA1	47.947	-91.495	-0.006	0.000	0.403	0.229	0.295	0.301	0.071	-1.998
EC	BRCA1	37.618	-112.174	-0.003	0.102	0.248	0.157	0.199	0.201	0.061	-1.563
EC	BRID1	42.975	-109.758	-0.001	0.464	0.172	0.146	0.182	0.159	0.080	-0.553
EC	BRIG1	39.465	-74.449	-0.026	0.000	1.162	0.411	0.725	0.773	0.232	-3.349
EC	CANY1	38.459	-109.821	-0.005	0.000	0.247	0.100	0.179	0.174	0.054	-2.939
EC	CHAS1	28.748	-82.555	-0.021	0.000	1.166	0.550	0.838	0.826	0.208	-2.570
EC	CHIR1	32.009	-109.389	-0.004	0.000	0.244	0.116	0.176	0.180	0.050	-2.447
EC	CORI1	45.664	-121.001	-0.018	0.000	0.852	0.334	0.590	0.548	0.169	-3.257
EC	CRLA1	42.896	-122.136	-0.007	0.019	0.428	0.237	0.406	0.323	0.273	-2.033
EC	DENA1	63.723	-148.967	-0.004	0.000	0.204	0.080	0.149	0.142	0.077	-3.019
EC	DOSO1	39.105	-79.426	-0.016	0.000	0.731	0.271	0.481	0.485	0.153	-3.264
EC	GICL1	33.22	-108.235	-0.009	0.000	0.376	0.106	0.271	0.222	0.228	-4.181
EC	GLAC1	48.511	-113.997	-0.015	0.000	0.853	0.409	0.640	0.631	0.175	-2.426
EC	GRBA1	39.005	-114.216	-0.008	0.000	0.300	0.079	0.195	0.178	0.083	-4.291
EC	GRCA2	36.066	-112.154	-0.005	0.000	0.274	0.115	0.206	0.192	0.104	-2.855
EC	GRSA1	37.725	-105.519	-0.002	0.021	0.202	0.153	0.188	0.178	0.039	-0.953
EC	GRSM1	35.633	-83.942	-0.017	0.000	0.861	0.366	0.571	0.613	0.179	-2.784
EC	GUMO1	31.833	-104.809	-0.003	0.000	0.249	0.161	0.205	0.205	0.039	-1.471
EC	HAVO1	19.431	-155.258	-0.004	0.000	0.154	0.043	0.089	0.081	0.036	-4.751
EC	JARB1	41.893	-115.426	-0.001	0.580	0.189	0.163	0.180	0.175	0.059	-0.508
EC	LAVO1	40.54	-121.577	-0.003	0.143	0.344	0.258	0.364	0.301	0.218	-0.989
EC	MACA1	37.132	-86.148	-0.020	0.000	0.962	0.385	0.662	0.654	0.194	-3.041

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EC	MEVE1	37.198	-108.491	-0.004	0.000	0.233	0.105	0.173	0.169	0.056	-2.614
EC	MOOS1	45.126	-67.266	-0.015	0.000	0.606	0.179	0.334	0.356	0.114	-4.133
EC	MORA1	46.758	-122.124	-0.023	0.000	0.863	0.197	0.547	0.519	0.215	-4.432
EC	MOZI1	40.538	-106.677	-0.002	0.074	0.197	0.127	0.153	0.155	0.045	-1.565
EC	OKEF1	30.74	-82.128	-0.014	0.000	0.893	0.485	0.631	0.675	0.149	-2.087
EC	PEFO1	35.078	-109.769	-0.009	0.000	0.491	0.226	0.355	0.359	0.100	-2.546
EC	PINN1	36.483	-121.157	-0.021	0.000	0.765	0.144	0.527	0.455	0.199	-4.713
EC	PORE1	38.122	-122.909	-0.015	0.000	0.558	0.127	0.340	0.343	0.158	-4.331
EC	REDW1	41.561	-124.084	-0.007	0.000	0.292	0.080	0.194	0.186	0.083	-3.944
EC	ROMA1	32.941	-79.657	-0.017	0.000	0.901	0.403	0.610	0.609	0.172	-2.823
EC	ROMO1	40.278	-105.546	-0.003	0.027	0.276	0.187	0.235	0.230	0.057	-1.326
EC	SAGO1	34.194	-116.913	-0.021	0.000	0.898	0.275	0.501	0.565	0.211	-3.797
EC	SAGU1	32.175	-110.737	-0.012	0.000	0.467	0.121	0.295	0.246	0.109	-4.831
EC	SEQU1	36.489	-118.829	-0.024	0.000	1.015	0.322	0.629	0.621	0.235	-3.848
EC	SHEN1	38.523	-78.435	-0.013	0.000	0.733	0.359	0.506	0.546	0.133	-2.365
EC	SHRO1	35.394	-82.774	-0.011	0.003	0.501	0.197	0.370	0.323	0.120	-3.255
EC	SIPS1	34.343	-87.339	-0.028	0.000	1.172	0.367	0.744	0.728	0.247	-3.816
EC	SNPA1	47.422	-121.426	-0.015	0.000	0.637	0.209	0.388	0.379	0.136	-3.896
EC	THSI1	44.291	-122.043	-0.007	0.004	0.407	0.208	0.319	0.294	0.122	-2.332
EC	TONT1	33.655	-111.107	-0.009	0.000	0.431	0.166	0.293	0.294	0.095	-3.118
EC	UPBU1	35.826	-93.203	-0.010	0.000	0.640	0.341	0.484	0.480	0.110	-2.144
EC	WEMI1	37.659	-107.8	-0.007	0.000	0.338	0.135	0.221	0.237	0.067	-2.969
EC	YELL2	44.565	-110.4	-0.003	0.018	0.294	0.193	0.238	0.243	0.074	-1.437
EC	YOSE1	37.713	-119.706	-0.007	0.026	0.503	0.294	0.467	0.399	0.284	-1.805
Fine Dust	ACAD1	44.377	-68.261	-0.009	0.000	0.622	0.360	0.456	0.491	0.133	-1.840
Fine Dust	BADL1	43.743	-101.941	0.001	0.929	1.358	1.375	1.378	1.366	0.276	0.044
Fine Dust	BAND1	35.78	-106.266	0.008	0.580	1.401	1.630	1.629	1.516	0.503	0.521
Fine Dust	BIBE1	29.303	-103.178	-0.012	0.464	3.122	2.763	3.196	2.943	0.978	-0.421
Fine Dust	BLIS1	38.976	-120.103	-0.004	0.552	1.142	1.019	1.064	1.076	0.223	-0.396
Fine Dust	BOWA1	47.947	-91.495	-0.014	0.005	0.900	0.482	0.669	0.662	0.248	-2.177
Fine Dust	BRCA1	37.618	-112.174	0.002	0.789	1.360	1.428	1.442	1.394	0.393	0.169
Fine Dust	BRID1	42.975	-109.758	-0.004	0.443	1.168	1.060	1.099	1.114	0.250	-0.334
Fine Dust	BRIG1	39.465	-74.449	-0.018	0.004	1.120	0.584	0.839	0.834	0.283	-2.216
Fine Dust	CANY1	38.459	-109.821	-0.009	0.232	1.846	1.580	1.733	1.713	0.485	-0.534
Fine Dust	CHAS1	28.748	-82.555	0.006	0.779	1.866	2.027	2.045	1.960	0.689	0.283
Fine Dust	CHIR1	32.009	-109.389	0.017	0.129	2.151	2.652	2.409	2.402	0.571	0.719
Fine Dust	CORI1	45.664	-121.001	0.050	0.012	1.246	2.691	2.583	2.093	1.059	2.380

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Fine Dust	CRLA1	42.896	-122.136	-0.012	0.013	1.184	0.837	0.937	0.992	0.232	-1.205
Fine Dust	CRMO1	43.46	-113.555	-0.002	0.819	1.355	1.310	1.486	1.330	0.574	-0.116
Fine Dust	DENA1	63.723	-148.967	-0.006	0.026	0.462	0.276	0.442	0.369	0.355	-1.732
Fine Dust	DOSO1	39.105	-79.426	-0.019	0.004	1.219	0.668	0.888	0.925	0.267	-2.056
Fine Dust	EVER1	25.391	-80.681	-0.013	0.774	3.495	3.118	3.583	3.281	1.295	-0.396
Fine Dust	GICL1	33.22	-108.235	0.005	0.843	1.718	1.856	1.885	1.796	0.564	0.265
Fine Dust	GLAC1	48.511	-113.997	0.009	0.422	1.648	1.897	1.796	1.773	0.500	0.483
Fine Dust	GRBA1	39.005	-114.216	-0.004	0.723	1.720	1.616	1.559	1.663	0.360	-0.214
Fine Dust	GRCA2	36.066	-112.154	0.011	0.260	1.206	1.523	1.474	1.370	0.416	0.798
Fine Dust	GRSA1	37.725	-105.519	-0.001	0.957	2.666	2.636	2.558	2.651	0.782	-0.039
Fine Dust	GRSM1	35.633	-83.942	-0.013	0.056	1.231	0.863	1.051	1.047	0.274	-1.214
Fine Dust	GUMO1	31.833	-104.809	0.044	0.181	3.075	4.358	4.129	3.717	1.532	1.190
Fine Dust	HALE1	20.809	-156.282	-0.001	0.904	0.514	0.489	0.527	0.505	0.090	-0.167
Fine Dust	HAVO1	19.431	-155.258	-0.004	0.271	0.448	0.336	0.475	0.377	0.301	-1.021
Fine Dust	JARB1	41.893	-115.426	-0.007	0.708	2.849	2.652	2.747	2.747	0.586	-0.247
Fine Dust	LAVO1	40.54	-121.577	-0.001	0.986	1.078	1.061	1.068	1.069	0.320	-0.052
Fine Dust	LYBR1	43.148	-73.127	0.002	0.763	0.619	0.686	0.669	0.647	0.168	0.354
Fine Dust	MACA1	37.132	-86.148	-0.013	0.144	1.268	0.887	1.026	1.064	0.290	-1.234
Fine Dust	MEVE1	37.198	-108.491	0.001	0.901	1.835	1.854	2.055	1.844	1.045	0.035
Fine Dust	MOOS1	45.126	-67.266	-0.013	0.000	0.668	0.297	0.434	0.451	0.140	-2.837
Fine Dust	MORA1	46.758	-122.124	-0.009	0.000	0.711	0.441	0.561	0.571	0.135	-1.624
Fine Dust	MOZI1	40.538	-106.677	-0.017	0.026	1.408	0.902	1.155	1.103	0.284	-1.581
Fine Dust	OKEF1	30.74	-82.128	0.008	0.580	1.495	1.725	1.621	1.618	0.441	0.490
Fine Dust	PEFO1	35.078	-109.769	0.008	0.487	2.047	2.267	2.192	2.157	0.505	0.353
Fine Dust	PINN1	36.483	-121.157	-0.003	0.121	0.970	0.875	0.955	0.922	0.159	-0.354
Fine Dust	PORE1	38.122	-122.909	-0.002	0.218	0.478	0.413	0.468	0.446	0.122	-0.506
Fine Dust	REDW1	41.561	-124.084	-0.004	0.052	0.398	0.290	0.359	0.344	0.089	-1.081
Fine Dust	ROMA1	32.941	-79.657	0.003	0.779	1.124	1.206	1.248	1.172	0.302	0.240
Fine Dust	ROMO1	40.278	-105.546	-0.016	0.051	1.920	1.449	1.646	1.676	0.411	-0.968
Fine Dust	SAGO1	34.194	-116.913	-0.042	0.000	2.374	1.167	1.728	1.729	0.552	-2.406
Fine Dust	SAGU1	32.175	-110.737	-0.035	0.324	4.165	3.159	3.715	3.523	1.325	-0.984
Fine Dust	SAWT1	44.171	-114.927	0.004	0.643	0.942	1.051	1.061	1.004	0.301	0.375
Fine Dust	SEQU1	36.489	-118.829	-0.011	0.477	2.476	2.169	3.349	2.312	3.963	-0.457
Fine Dust	SHEN1	38.523	-78.435	-0.020	0.000	1.217	0.638	0.863	0.928	0.271	-2.151
Fine Dust	SHRO1	35.394	-82.774	-0.024	0.022	1.462	0.765	1.100	1.041	0.470	-2.309
Fine Dust	SIPS1	34.343	-87.339	-0.016	0.150	1.625	1.166	1.300	1.372	0.416	-1.154
Fine Dust	SNPA1	47.422	-121.426	-0.010	0.003	0.770	0.478	0.580	0.598	0.165	-1.682



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Fine Dust	SULA1	45.86	-114	-0.011	0.022	1.046	0.730	0.868	0.866	0.219	-1.258
Fine Dust	THSI1	44.291	-122.043	0.020	0.098	0.636	1.216	1.203	0.966	0.871	2.068
Fine Dust	TONT1	33.655	-111.107	0.024	0.124	2.257	2.966	2.869	2.624	0.800	0.932
Fine Dust	UPBU1	35.826	-93.203	-0.011	0.363	1.878	1.562	1.866	1.709	0.678	-0.639
Fine Dust	VIIS1	18.336	-64.796	-0.247	0.001	12.401	5.247	9.321	8.578	3.111	-2.876
Fine Dust	WEMI1	37.659	-107.8	0.003	0.656	1.373	1.472	1.460	1.423	0.432	0.240
Fine Dust	WHRI1	39.154	-106.821	0.014	0.225	1.009	1.413	1.326	1.239	0.372	1.124
Fine Dust	YELL2	44.565	-110.4	-0.036	0.000	1.479	0.433	1.076	0.956	0.444	-3.775
Fine Dust	YOSE1	37.713	-119.706	-0.001	0.817	1.260	1.227	1.237	1.244	0.216	-0.092
FM	ACAD1	44.377	-68.261	-0.337	0.000	14.359	4.574	9.984	9.466	3.575	-3.564
FM	BADL1	43.743	-101.941	-0.082	0.000	8.203	5.830	7.147	7.016	1.415	-1.166
FM	BAND1	35.78	-106.266	-0.053	0.000	6.468	4.941	5.502	5.705	0.762	-0.923
FM	BIBE1	29.303	-103.178	-0.084	0.003	11.204	8.780	10.307	9.992	1.682	-0.837
FM	BLIS1	38.976	-120.103	-0.004	0.808	5.961	5.852	6.138	5.903	0.977	-0.064
FM	BOWA1	47.947	-91.495	-0.197	0.000	12.054	6.341	8.557	8.804	1.954	-2.238
FM	BRCA1	37.618	-112.174	-0.036	0.003	5.519	4.476	4.968	4.979	0.641	-0.722
FM	BRID1	42.975	-109.758	-0.017	0.532	5.225	4.742	5.052	4.983	1.545	-0.334
FM	BRIG1	39.465	-74.449	-0.554	0.000	26.844	10.792	16.514	18.265	4.927	-3.031
FM	CANY1	38.459	-109.821	-0.051	0.001	5.817	4.337	5.043	5.077	0.938	-1.005
FM	CHAS1	28.748	-82.555	-0.435	0.000	20.854	8.248	13.512	13.464	3.887	-3.228
FM	CHIR1	32.009	-109.389	-0.068	0.006	7.385	5.426	6.570	6.406	1.463	-1.054
FM	CORI1	45.664	-121.001	-0.084	0.017	11.614	9.172	9.972	10.140	1.343	-0.831
FM	CRLA1	42.896	-122.136	-0.019	0.544	5.727	5.173	6.901	5.402	4.861	-0.354
FM	CRMO1	43.46	-113.555	-0.028	0.632	6.190	5.364	6.200	5.734	1.935	-0.497
FM	DENA1	63.723	-148.967	-0.050	0.004	3.735	2.271	3.246	3.003	1.233	-1.682
FM	DOSO1	39.105	-79.426	-0.772	0.000	29.846	7.464	16.976	17.883	6.781	-4.316
FM	EVER1	25.391	-80.681	-0.249	0.000	15.175	7.942	11.549	10.935	3.239	-2.281
FM	GICL1	33.22	-108.235	-0.104	0.001	7.673	4.660	6.256	5.959	1.410	-1.743
FM	GLAC1	48.511	-113.997	-0.092	0.061	10.950	8.291	9.622	9.620	1.699	-0.953
FM	GRBA1	39.005	-114.216	-0.028	0.348	5.485	4.686	5.038	5.045	0.943	-0.546
FM	GRCA2	36.066	-112.154	-0.056	0.016	6.156	4.534	5.337	5.317	0.983	-1.052
FM	GRSA1	37.725	-105.519	-0.041	0.066	5.925	4.745	5.631	5.335	1.087	-0.762
FM	GRSM1	35.633	-83.942	-0.750	0.000	31.794	10.042	19.042	20.918	6.992	-3.586
FM	GUMO1	31.833	-104.809	-0.028	0.363	9.210	8.399	8.989	8.804	1.481	-0.317
FM	HALE1	20.809	-156.282	-0.042	0.091	5.311	4.102	5.056	4.852	0.704	-0.859
FM	HAVO1	19.431	-155.258	0.047	0.592	10.608	11.982	11.949	11.485	5.028	0.413
FM	JARB1	41.893	-115.426	0.016	0.680	6.410	6.869	6.770	6.648	1.687	0.238

Species	Site	Lat (°)	Lon (°)	Slope ( $\mu\text{g m}^{-3} \text{ yr}^{-1}$ )	Statistical Significance (p)	Beg. Year ( $\mu\text{g m}^{-3}$ )	End Year ( $\mu\text{g m}^{-3}$ )	Mean ( $\mu\text{g m}^{-3}$ )	Median ( $\mu\text{g m}^{-3}$ )	Standard Deviation ( $\mu\text{g m}^{-3}$ )	Trend (% $\text{yr}^{-1}$ )
FM	LAVO1	40.54	-121.577	0.013	0.789	5.626	6.006	6.698	5.816	2.868	0.225
FM	MACA1	37.132	-86.148	-0.672	0.000	30.041	10.556	18.213	19.627	5.789	-3.423
FM	MEVE1	37.198	-108.491	-0.065	0.004	6.264	4.383	5.524	5.323	1.676	-1.219
FM	MOOS1	45.126	-67.266	-0.295	0.000	12.326	3.780	8.030	7.316	2.342	-4.028
FM	MORA1	46.758	-122.124	-0.227	0.000	10.491	3.915	7.514	7.090	2.136	-3.198
FM	MOZI1	40.538	-106.677	-0.040	0.102	5.030	3.856	4.308	4.322	0.682	-0.937
FM	OKEF1	30.74	-82.128	-0.403	0.000	21.016	9.320	14.663	14.765	3.984	-2.731
FM	PEFO1	35.078	-109.769	-0.043	0.021	6.589	5.338	6.167	5.963	1.069	-0.724
FM	PINN1	36.483	-121.157	-0.145	0.000	9.974	5.762	8.120	7.868	1.810	-1.846
FM	PORE1	38.122	-122.909	-0.097	0.019	13.061	10.243	11.733	11.652	1.726	-0.834
FM	REDW1	41.561	-124.084	-0.090	0.023	8.965	6.362	7.812	7.663	1.636	-1.171
FM	ROMA1	32.941	-79.657	-0.479	0.000	22.439	8.556	14.432	14.301	4.126	-3.347
FM	ROMO1	40.278	-105.546	-0.047	0.061	6.454	5.090	5.749	5.748	1.097	-0.818
FM	SAGO1	34.194	-116.913	-0.396	0.000	16.489	5.004	10.817	10.351	3.718	-3.826
FM	SAGU1	32.175	-110.737	-0.124	0.005	9.564	5.960	7.619	7.265	1.586	-1.711
FM	SAWT1	44.171	-114.927	0.008	0.843	5.677	5.904	7.310	5.806	4.047	0.135
FM	SEQU1	36.489	-118.829	-0.281	0.002	19.595	11.450	16.155	15.242	4.760	-1.843
FM	SHEN1	38.523	-78.435	-0.661	0.000	29.943	10.769	17.900	20.356	6.335	-3.248
FM	SHRO1	35.394	-82.774	-0.690	0.000	26.362	6.361	14.572	14.293	5.275	-4.826
FM	SIPS1	34.343	-87.339	-0.623	0.000	27.854	9.791	18.178	17.888	6.231	-3.482
FM	SNPA1	47.422	-121.426	-0.130	0.002	8.225	4.453	6.258	6.014	1.479	-2.163
FM	SULA1	45.86	-114	-0.027	0.275	5.640	4.843	7.039	5.186	5.577	-0.530
FM	THSI1	44.291	-122.043	-0.060	0.128	7.496	5.759	6.920	6.508	1.546	-0.920
FM	TONT1	33.655	-111.107	-0.051	0.015	7.872	6.407	7.384	7.115	1.334	-0.710
FM	UPBU1	35.826	-93.203	-0.431	0.000	23.084	10.595	15.633	16.409	3.906	-2.625
FM	VIIS1	18.336	-64.796	-0.201	0.003	17.258	11.416	14.576	14.035	2.659	-1.435
FM	WEMI1	37.659	-107.8	-0.047	0.002	5.243	3.891	4.648	4.567	0.898	-1.021
FM	WHRI1	39.154	-106.821	-0.043	0.045	4.936	3.693	4.275	4.229	0.731	-1.013
FM	YELL2	44.565	-110.4	-0.023	0.574	5.776	5.117	5.718	5.435	1.663	-0.418
FM	YOSE1	37.713	-119.706	-0.061	0.121	9.611	7.837	9.392	8.724	3.622	-0.701
CM	ACAD1	44.377	-68.261	-0.136	0.002	7.449	3.499	6.589	5.474	2.645	-2.488
CM	BADL1	43.743	-101.941	-0.088	0.084	12.224	9.674	11.273	10.949	2.260	-0.803
CM	BAND1	35.78	-106.266	-0.103	0.019	8.550	5.574	7.838	7.062	2.920	-1.453
CM	BIBE1	29.303	-103.178	-0.154	0.036	15.366	10.888	14.192	13.050	4.506	-1.183
CM	BLIS1	38.976	-120.103	0.004	0.877	4.973	5.081	5.102	5.030	1.468	0.074
CM	BOWA1	47.947	-91.495	-0.038	0.243	6.405	5.291	5.886	5.771	1.136	-0.665
CM	BRCA1	37.618	-112.174	-0.053	0.039	7.072	5.525	6.430	6.272	1.491	-0.851

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CM	BRID1	42.975	-109.758	-0.099	0.000	5.960	3.089	4.992	4.525	2.041	-2.188
CM	BRIG1	39.465	-74.449	-0.211	0.269	19.673	13.551	19.507	16.296	9.432	-1.295
CM	CANY1	38.459	-109.821	-0.146	0.000	10.269	6.025	8.328	8.147	2.209	-1.796
CM	CHAS1	28.748	-82.555	-0.198	0.005	12.900	7.149	10.865	9.529	3.309	-2.081
CM	CHIR1	32.009	-109.389	0.108	0.090	9.664	12.806	11.974	11.235	3.046	0.964
CM	CORI1	45.664	-121.001	0.618	0.002	11.125	29.058	23.676	21.947	8.746	2.818
CM	CRLA1	42.896	-122.136	-0.186	0.000	6.657	1.264	4.291	3.496	2.236	-5.319
CM	DENA1	63.723	-148.967	-0.104	0.015	4.741	1.725	4.090	3.233	2.354	-3.217
CM	DOSO1	39.105	-79.426	-0.151	0.006	8.171	3.801	5.975	5.760	1.813	-2.616
CM	GICL1	33.22	-108.235	-0.143	0.011	8.847	4.690	6.663	6.482	1.901	-2.212
CM	GLAC1	48.511	-113.997	-0.012	0.817	13.447	13.100	14.092	13.274	4.446	-0.090
CM	GRBA1	39.005	-114.216	-0.029	0.219	7.177	6.346	6.612	6.718	0.990	-0.427
CM	GRCA2	36.066	-112.154	-0.237	0.000	9.936	3.056	7.622	6.615	3.561	-3.587
CM	GRSA1	37.725	-105.519	-0.155	0.012	10.782	6.297	9.430	8.539	3.662	-1.811
CM	GRSM1	35.633	-83.942	-0.170	0.000	10.112	5.184	8.259	7.648	2.690	-2.222
CM	GUMO1	31.833	-104.809	0.091	0.532	15.288	17.934	19.632	16.611	8.047	0.549
CM	JARB1	41.893	-115.426	-0.082	0.035	11.096	8.712	10.170	9.781	1.669	-0.841
CM	LAVO1	40.54	-121.577	-0.059	0.139	6.522	4.805	6.150	5.664	2.500	-1.045
CM	MACA1	37.132	-86.148	-0.120	0.033	8.919	5.433	7.514	7.055	1.993	-1.704
CM	MEVE1	37.198	-108.491	-0.100	0.028	8.182	5.271	7.663	6.727	3.483	-1.493
CM	MOOS1	45.126	-67.266	-0.133	0.000	6.343	2.474	4.634	4.075	1.475	-3.274
CM	MORA1	46.758	-122.124	-0.093	0.002	5.878	3.168	5.232	4.476	2.036	-2.088
CM	MOZI1	40.538	-106.677	-0.148	0.001	7.842	3.549	5.520	5.251	1.651	-2.819
CM	OKEF1	30.74	-82.128	-0.130	0.150	11.271	7.510	10.376	9.196	4.041	-1.410
CM	PEFO1	35.078	-109.769	0.048	0.348	8.222	9.602	9.790	8.936	3.899	0.533
CM	PINN1	36.483	-121.157	-0.147	0.003	13.063	8.798	11.706	10.931	3.048	-1.346
CM	PORE1	38.122	-122.909	-0.176	0.028	17.802	12.689	16.559	15.246	4.365	-1.156
CM	REDW1	41.561	-124.084	-0.116	0.026	10.046	6.675	8.816	8.360	2.078	-1.390
CM	ROMA1	32.941	-79.657	-0.152	0.093	13.119	8.714	11.293	10.536	2.428	-1.442
CM	ROMO1	40.278	-105.546	-0.083	0.022	8.713	6.317	7.732	7.474	2.279	-1.105
CM	SAGO1	34.194	-116.913	-0.238	0.000	15.356	8.456	12.636	11.668	4.052	-2.039
CM	SAGU1	32.175	-110.737	-0.077	0.324	15.077	12.838	13.989	13.649	2.683	-0.566
CM	SEQU1	36.489	-118.829	0.074	0.708	17.514	19.663	21.436	18.737	10.592	0.395
CM	SHEN1	38.523	-78.435	-0.111	0.037	7.926	4.698	7.109	6.312	2.246	-1.764
CM	SHRO1	35.394	-82.774	-0.068	0.692	6.742	4.775	6.164	5.521	2.736	-1.228
CM	SIPS1	34.343	-87.339	-0.130	0.000	10.099	6.323	8.337	7.951	1.823	-1.637
CM	SNPA1	47.422	-121.426	-0.053	0.275	4.274	2.746	3.716	3.352	1.293	-1.572

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CM	THSI1	44.291	-122.043	0.149	0.055	5.138	9.448	9.218	7.664	6.323	1.939
CM	TONT1	33.655	-111.107	-0.008	0.940	13.274	13.029	13.131	13.148	2.537	-0.064
CM	UPBU1	35.826	-93.203	-0.122	0.128	13.036	9.497	11.951	11.083	3.926	-1.101
CM	WEMI1	37.659	-107.8	-0.143	0.000	7.388	3.254	5.871	5.321	1.942	-2.679
CM	YELL2	44.565	-110.4	-0.205	0.000	7.965	2.028	6.457	4.894	3.861	-4.183
CM	YOSE1	37.713	-119.706	0.052	0.363	8.165	9.675	8.990	8.920	1.970	0.584
PM10	ACAD1	44.377	-68.261	-0.446	0.000	20.252	7.320	15.324	13.786	4.911	-3.235
PM10	BADL1	43.743	-101.941	-0.124	0.061	19.471	15.872	17.714	17.672	2.789	-0.702
PM10	BAND1	35.78	-106.266	-0.117	0.028	13.796	10.397	12.523	12.097	2.973	-0.969
PM10	BIBE1	29.303	-103.178	-0.136	0.066	22.241	18.302	22.454	20.204	4.920	-0.672
PM10	BLIS1	38.976	-120.103	-0.001	0.912	10.653	10.629	10.715	10.640	1.684	-0.008
PM10	BOWA1	47.947	-91.495	-0.226	0.000	17.390	10.835	13.993	13.660	2.437	-1.655
PM10	BRCA1	37.618	-112.174	-0.052	0.230	11.498	9.996	11.040	10.721	1.487	-0.483
PM10	BRID1	42.975	-109.758	-0.110	0.015	11.158	7.954	9.738	9.556	2.369	-1.156
PM10	BRIG1	39.465	-74.449	-0.712	0.000	43.346	22.709	33.192	31.960	10.495	-2.227
PM10	CANY1	38.459	-109.821	-0.156	0.000	14.722	10.208	13.001	12.465	2.596	-1.249
PM10	CHAS1	28.748	-82.555	-0.508	0.000	27.558	12.813	21.519	19.423	5.314	-2.618
PM10	CHIR1	32.009	-109.389	0.063	0.532	16.672	18.489	17.671	17.581	3.355	0.356
PM10	CORI1	45.664	-121.001	0.490	0.014	20.757	34.961	31.215	28.839	8.862	1.698
PM10	CRLA1	42.896	-122.136	-0.143	0.103	11.853	7.717	11.532	9.571	7.104	-1.490
PM10	DENA1	63.723	-148.967	-0.139	0.011	7.996	3.969	7.099	5.983	3.106	-2.321
PM10	DOSO1	39.105	-79.426	-0.855	0.000	35.609	10.815	21.029	21.930	7.120	-3.899
PM10	GICL1	33.22	-108.235	-0.206	0.006	16.694	10.721	13.259	13.296	3.334	-1.549
PM10	GLAC1	48.511	-113.997	-0.132	0.276	23.987	20.169	23.186	22.078	5.658	-0.596
PM10	GRBA1	39.005	-114.216	-0.015	0.819	11.285	10.843	11.183	11.041	1.628	-0.138
PM10	GRCA2	36.066	-112.154	-0.259	0.000	15.808	8.300	12.502	12.183	3.630	-2.125
PM10	GRSA1	37.725	-105.519	-0.186	0.021	16.378	10.972	14.781	13.675	4.726	-1.363
PM10	GRSM1	35.633	-83.942	-0.788	0.000	36.613	13.750	25.247	25.181	7.943	-3.131
PM10	GUMO1	31.833	-104.809	0.024	0.901	23.072	23.756	26.722	23.414	8.926	0.101
PM10	JARB1	41.893	-115.426	-0.044	0.632	16.808	15.540	16.838	16.108	3.171	-0.271
PM10	LAVO1	40.54	-121.577	0.030	0.708	11.024	11.885	12.494	11.455	4.197	0.259
PM10	MACA1	37.132	-86.148	-0.752	0.000	35.470	13.658	24.338	23.812	6.746	-3.159
PM10	MEVE1	37.198	-108.491	-0.140	0.023	13.398	9.325	12.523	11.361	4.616	-1.236
PM10	MOOS1	45.126	-67.266	-0.370	0.000	17.191	6.457	11.976	10.899	3.048	-3.396
PM10	MORA1	46.758	-122.124	-0.258	0.000	15.379	7.894	12.017	11.508	2.959	-2.243
PM10	MOZI1	40.538	-106.677	-0.118	0.033	11.054	7.620	9.230	8.982	1.834	-1.318
PM10	OKEF1	30.74	-82.128	-0.508	0.000	28.959	14.232	23.301	21.088	6.238	-2.408

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PM10	PEFO1	35.078	-109.769	0.012	0.872	13.874	14.210	15.594	14.042	5.327	0.083
PM10	PINN1	36.483	-121.157	-0.245	0.000	21.517	14.399	18.863	17.958	3.688	-1.367
PM10	PORE1	38.122	-122.909	-0.261	0.019	29.831	22.264	27.239	26.048	5.563	-1.002
PM10	REDW1	41.561	-124.084	-0.185	0.048	18.403	13.030	16.174	15.717	3.403	-1.179
PM10	ROMA1	32.941	-79.657	-0.468	0.000	30.044	16.482	23.376	22.094	5.276	-2.117
PM10	ROMO1	40.278	-105.546	-0.079	0.107	13.560	11.269	12.536	12.375	2.599	-0.638
PM10	SAGO1	34.194	-116.913	-0.582	0.000	31.838	14.955	22.657	22.814	6.502	-2.552
PM10	SAGU1	32.175	-110.737	-0.124	0.297	23.039	19.428	20.578	20.736	3.469	-0.600
PM10	SEQU1	36.489	-118.829	-0.093	0.552	34.147	31.457	35.909	32.617	13.191	-0.284
PM10	SHEN1	38.523	-78.435	-0.753	0.000	35.486	13.662	23.662	24.574	7.055	-3.062
PM10	SHRO1	35.394	-82.774	-0.736	0.000	31.497	10.161	19.276	18.254	6.033	-4.031
PM10	SIPS1	34.343	-87.339	-0.731	0.000	35.854	14.641	24.686	23.785	6.989	-3.075
PM10	SNPA1	47.422	-121.426	-0.203	0.003	12.741	6.869	9.646	9.197	2.260	-2.202
PM10	THSI1	44.291	-122.043	0.128	0.148	11.274	14.976	15.786	13.444	7.811	0.950
PM10	TONT1	33.655	-111.107	-0.057	0.548	20.142	18.495	19.864	19.290	3.191	-0.294
PM10	UPBU1	35.826	-93.203	-0.563	0.000	36.591	20.271	25.896	27.587	5.773	-2.040
PM10	WEMI1	37.659	-107.8	-0.145	0.000	11.804	7.594	10.005	9.699	2.343	-1.497
PM10	YELL2	44.565	-110.4	-0.218	0.004	13.821	7.492	11.795	10.656	3.950	-2.048
PM10	YOSE1	37.713	-119.706	0.051	0.556	16.465	17.958	18.371	17.211	4.991	0.299