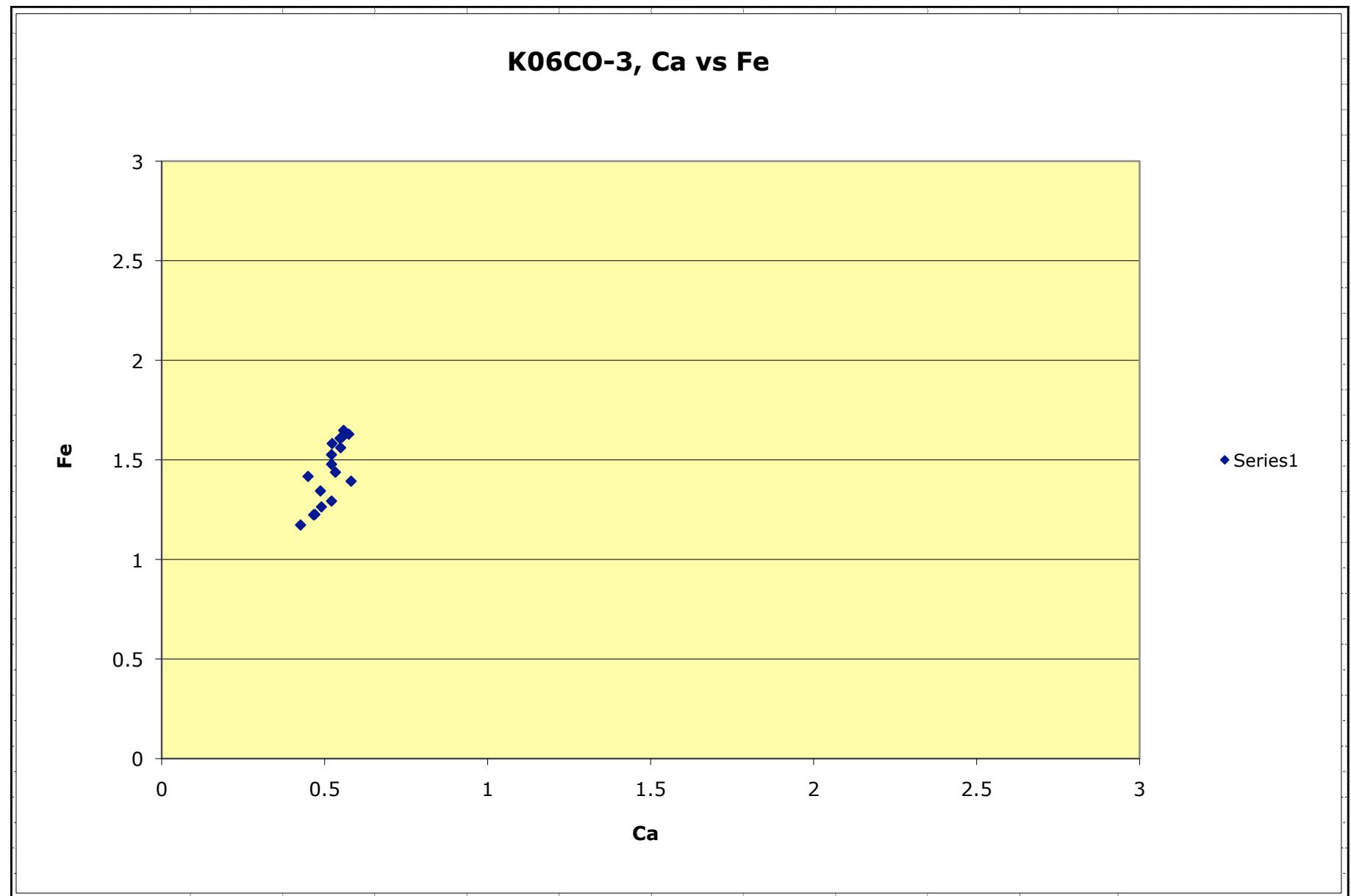


No.	Na2O	MgO	Al2O3	SiO2	K2O	CaO	TiO2	MnO	FeO	Total	
91	3.348	0.043	11.891	72.903	4.739	0.521	0.139	0.016	1.478	95.078	K06CO-3 T543-2 1
92	3.291	0.027	11.925	72.890	4.738	0.574	0.112	0.051	1.629	95.237	K06CO-3 T543-2 2
93	3.230	0.026	11.631	72.643	4.975	0.521	0.197	0.063	1.526	94.812	K06CO-3 T543-2 3
94	3.292	0.032	11.823	72.394	4.783	0.555	0.143	0.068	1.616	94.706	K06CO-3 T543-2 4
96	3.439	0.000	11.744	72.733	4.807	0.549	0.142	0.015	1.561	94.990	K06CO-3 T543-2 6
97	3.385	0.030	11.616	71.922	4.977	0.558	0.118	0.032	1.648	94.286	K06CO-3 T543-2 7
98	3.433	0.016	11.777	72.399	4.793	0.449	0.067	0.007	1.417	94.358	K06CO-3 T543-2 8
99	3.479	0.023	11.590	72.291	4.683	0.466	0.089	0.053	1.224	93.898	K06CO-3 T543-2 9
100	3.390	0.007	11.720	72.675	4.731	0.426	0.087	0.027	1.173	94.236	K06CO-3 T543-2 10
102	3.326	0.028	11.673	72.464	4.861	0.581	0.147	0.043	1.393	94.516	K06CO-3 T543-2 12
103	3.378	0.028	11.757	72.291	4.677	0.547	0.155	0.071	1.608	94.512	K06CO-3 T543-2 13
104	3.572	0.031	11.765	72.477	4.635	0.487	0.104	0.057	1.344	94.472	K06CO-3 T543-2 14
105	3.473	0.030	11.828	72.694	4.957	0.533	0.140	0.040	1.438	95.133	K06CO-3 T543-2 15
107	3.510	0.018	11.873	72.987	5.010	0.470	0.104	0.058	1.226	95.256	K06CO-3 T543-2 17
108	3.490	0.016	11.664	72.483	4.766	0.523	0.151	0.058	1.582	94.733	K06CO-3 T543-2 18
109	3.327	0.024	11.603	72.132	4.873	0.521	0.124	0.012	1.293	93.909	K06CO-3 T543-2 19
110	3.644	0.035	11.659	72.570	4.599	0.490	0.131	0.005	1.264	94.397	K06CO-3 T543-2 20
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Low Total											
95	2.997	0.029	10.502	65.574	4.528	0.495	0.126	0.043	1.309	85.603	K06CO-3 T543-2 5
101	2.803	0.036	10.087	62.099	4.317	0.521	0.140	0.028	1.408	81.439	K06CO-3 T543-2 11
106	3.133	0.017	11.267	69.710	4.702	0.539	0.089	0.008	1.399	90.864	K06CO-3 T543-2 16
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Column 1											
Mean	3.412	0.024	11.738	72.526	4.800	0.516	0.126	0.040	1.436	94.619	
Std Deviation	0.108	0.010	0.105	0.282	0.125	0.045	0.031	0.022	0.160	0.426	
Range	0.414	0.043	0.335	1.065	0.411	0.155	0.130	0.066	0.475	1.358	
Minimum	3.230	0.000	11.590	71.922	4.599	0.426	0.067	0.005	1.173	93.898	
Maximum	3.644	0.043	11.925	72.987	5.010	0.581	0.197	0.071	1.648	95.256	
Count	17	17	17	17	17	17	17	17	17	17	
Confidence (95.0%)	0.056	0.005	0.054	0.145	0.064	0.023	0.016	0.012	0.082	0.219	

K06CO-3, Ca vs Fe



Electron microprobe analysis (EMA) of volcanic glass shards in K06CO-3, Kelso Gulch, Gunnison River, Colorado identifying this tephra as the 639 ±2 ka Lava Creek B ash bed (LCB). For comparison, examples of very close (>0.97 similarity coefficient) chemical correlations to previously analyzed Lava Creek samples in the USGS Tephrochronology Project database are also given. Values are weight percent oxide, recalculated to a 100 percent fluid free basis. Twenty or more individual glass shards were analyzed per sample.

ORNA-1 is the closest match at 0.9927, SC; this is a type-distal LCB sample in the Project database. Of specific interest may be SL-MM-06-91 (Pop 2), a heterogeneous Lava Creek B ash sample from a locality NE of San Luis, Colorado (Collector: M. Machette, USGS, Denver). In comparison to K06CO3, the iron level of SL-MM-06-91 (Pop 2) is slightly higher, and the sodium level is somewhat lower. But the correlation coefficient is still very good at 0.9800, SC.

Listing of 10 closest matches for K06CO-3 T543-2, COMP. NO. 5527 for elements: Na, Al, Si, K, Ca, Ti, Fe

C.No	Sample Number	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	MnO	CaO	TiO ₂	Na ₂ O	K ₂ O	Total,R	Sim. Co	Locality
0	5527 K06CO-3 T543-2	76.52	12.38	1.68	0.03	0.04	0.54	0.13	3.60	5.06	99.98	1.0000	Gunnison, CO
1	5410 ORNA-1 T530-8	76.62	12.31	1.70	0.02	0.03	0.53	0.13	3.63	5.03	100.00	0.9927	Oreana, NV
2	631 TULELAKE-329, T61-9	76.50	12.45	1.66	0.02	0.05	0.54	0.12	3.60	5.06	100.00	0.9865	Tulelake, CA
3	2466 T89-5/6/9 #1 T215-7	76.88	12.16	1.67	0.03	0.04	0.56	0.13	3.49	5.05	100.01	0.9862	Inyo Cty, CA
4	5507 SL-MM06-91 T542-6(pop2)	76.96	12.29	1.73	0.02	0.04	0.54	0.13	3.29	5.00	100.00	0.9800	San Luis, CO
5	5275 CDH-D56-11B T515-4	76.63	12.43	1.65	0.03	0.04	0.55	0.12	3.58	4.97	100.00	0.9797	Espanola, NM
6	391 TECO-30F, T17-13	76.23	12.63	1.60	0.02	0.03	0.52	0.13	3.59	5.26	100.01	0.9787	Tecopa, CA
7	2075 CDH-D88-23 T172-5	76.90	12.36	1.54	0.03	0.03	0.53	0.13	3.50	4.99	100.01	0.9786	Espanola, NM
8	2074 CDH-D87-0 T172-4	76.78	12.37	1.58	0.01	0.03	0.54	0.14	3.60	4.96	100.01	0.9779	Espanola, NM
9	2073 CDH-D86-11B T172-3	76.80	12.34	1.60	0.02	0.03	0.54	0.12	3.51	5.05	100.01	0.9774	Espanola, NM
10	390 TECO-30E, T17-12	76.14	12.58	1.60	0.02	0.04	0.54	0.13	3.51	5.44	100.00	0.9767	Tecopa, CA