APCA 9

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Loadings

element	MeanCon	csource_1	source_2	$source_3$	$source_4$	source_5	5 source_6	source_7	source_8	source_9	r_squared	l PredCond	e Pct_error
aluminum	22.52	2.01	0.03	15.93	2.16	1.68	2.63	0.25	-0.13	2.66	0.55	27.23	20.91
ammonium	n1119.33	235.24	19.35	134.40	314.99	-3.57	0.64	192.42	44.57	75.46	0.88	1013.51	-9.45
arsenic	0.49	0.15	0.01	0.04	0.06	0.03	0.02	0.06	0.00	0.05	0.18	0.41	-15.68
barium	1.95	-0.08	0.11	0.41	-0.09	1.55	-0.13	1.07	-0.03	-0.56	0.56	2.25	15.53
bromine	3.05	1.62	0.34	0.36	0.36	0.03	0.21	0.02	-0.12	0.11	0.59	2.94	-3.65
$\operatorname{cadmium}$	1.68	0.00	-0.08	0.04	-0.04	0.04	-0.16	0.13	0.04	-0.04	0.02	-0.06	-103.80
calcium	51.67	7.73	2.61	10.54	1.75	1.93	-5.50	17.76	4.43	-1.78	0.66	39.46	-23.64
chlorine	36.83	19.55	43.50	-2.49	0.27	0.28	2.44	1.61	0.14	-8.76	0.67	56.55	53.56
chromium	2.13	0.51	-0.18	0.54	-0.19	-0.02	3.40	-0.48	0.10	-0.89	0.69	2.79	30.99
copper	4.63	1.01	-0.10	0.51	0.36	0.98	0.22	2.12	0.17	0.27	0.73	5.54	19.87
EC	706.94	77.59	3.75	52.63	34.56	28.47	-61.02	559.29	25.67	-12.49	0.80	708.44	0.21
iron	105.50	8.53	0.16	21.73	3.93	3.13	9.41	59.26	1.04	-1.47	0.98	105.72	0.21
lead	2.01	1.45	0.04	0.17	0.21	0.19	-0.04	0.29	0.04	0.02	0.51	2.37	17.66
magnesiun	n - 7.32	-1.01	6.36	0.44	-0.14	2.94	0.05	-1.55	-0.08	-0.28	0.93	6.74	-7.95
manganese	e 2.09	0.57	0.02	0.32	0.16	0.05	0.08	1.01	0.14	0.02	0.72	2.37	13.42
nickel	4.91	1.27	0.12	0.00	0.42	-0.13	0.60	0.73	0.79	0.32	0.98	4.14	-15.72
nitrate	1604.06	649.75	114.70	-31.98	211.93	60.79	14.05	538.28	94.69	-279.75	0.58	1372.47	-14.44
OC	2706.61	307.90	-46.24	355.26	308.96	169.20	6.32	641.85	-19.53	354.82	0.81	2078.54	-23.20
pm25	10356.26	1792.89	208.39	1384.02	1647.51	400.78	40.15	2127.26	89.48	1331.76	0.83	9022.23	-12.88
potassium	39.33	7.55	3.03	3.81	5.43	25.59	-0.13	-8.57	1.17	2.38	0.69	40.26	2.36
selenium	0.39	0.09	0.01	0.05	0.09	0.01	0.00	0.00	0.01	0.06	0.29	0.33	-16.56
silicon	61.29	1.72	1.24	45.78	3.17	1.48	-2.78	11.54	0.81	-2.05	0.96	60.90	-0.63
sodium	95.14	3.83	64.17	7.16	2.54	-8.27	-0.75	11.56	1.33	9.83	0.96	91.40	-3.93
sulfur	791.26	51.30	7.42	156.41	201.75	0.91	2.90	45.78	1.59	235.38	0.86	703.44	-11.10
titanium	2.39	-0.09	0.00	1.15	0.15	0.14	-0.12	1.24	0.00	0.14	0.51	2.61	9.16
vanadium	2.86	0.51	0.16	0.55	0.68	-0.07	-0.23	1.38	0.25	1.32	0.68	4.54	58.75
zinc	25.90	19.88	0.67	-1.20	0.98	0.32	-1.36	5.62	1.69	-2.53	0.96	24.08	-7.04

Source proportions

element	source_1	source_2	source_3	source_4	source_5	source_6	source_7	source_8	source_9
aluminum	7.35	0.11	58.23	7.89	6.15	9.63	0.92	0.00	9.71
ammonium	23.13	1.90	13.21	30.97	0.00	0.06	18.92	4.38	7.42
arsenic	35.24	1.65	10.40	14.06	7.34	5.31	14.59	0.40	11.02
barium	0.00	3.58	13.06	0.00	49.28	0.00	34.09	0.00	0.00
bromine	52.99	11.14	11.94	11.64	1.06	6.99	0.73	0.00	3.52
$\operatorname{cadmium}$	1.60	0.00	16.57	0.00	13.79	0.00	51.91	16.14	0.00
calcium	16.54	5.59	22.55	3.74	4.12	0.00	37.99	9.47	0.00
chlorine	28.84	64.16	0.00	0.40	0.42	3.59	2.38	0.21	0.00
chromium	11.20	0.00	11.82	0.00	0.00	74.79	0.00	2.19	0.00
copper	17.86	0.00	8.95	6.46	17.30	3.98	37.54	3.08	4.83
EC	9.92	0.48	6.73	4.42	3.64	0.00	71.52	3.28	0.00
iron	7.96	0.15	20.27	3.66	2.92	8.78	55.29	0.97	0.00
lead	60.24	1.47	7.20	8.62	8.01	0.00	11.96	1.86	0.64
magnesium	0.00	64.91	4.53	0.00	30.00	0.55	0.00	0.00	0.00
manganese	24.00	1.05	13.52	6.88	2.18	3.39	42.51	5.78	0.69
nickel	29.89	2.84	0.00	9.90	0.00	14.16	17.13	18.54	7.54
nitrate	38.58	6.81	0.00	12.58	3.61	0.83	31.96	5.62	0.00
OC	14.36	0.00	16.57	14.41	7.89	0.29	29.93	0.00	16.55
pm25	19.87	2.31	15.34	18.26	4.44	0.45	23.58	0.99	14.76
potassium	15.43	6.18	7.79	11.09	52.27	0.00	0.00	2.39	4.85
selenium	25.93	3.25	16.74	26.84	4.38	0.00	0.59	3.91	18.38
silicon	2.62	1.88	69.64	4.82	2.25	0.00	17.56	1.24	0.00
sodium	3.81	63.90	7.13	2.53	0.00	0.00	11.52	1.32	9.79
sulfur	7.29	1.06	22.23	28.68	0.13	0.41	6.51	0.23	33.46
titanium	0.00	0.17	40.66	5.30	5.11	0.00	43.93	0.00	4.84
vanadium	10.54	3.35	11.34	13.97	0.00	0.00	28.42	5.14	27.23
zinc	68.17	2.31	0.00	3.36	1.11	0.00	19.25	5.79	0.00

Bar graph of the above proportions

