	Raw Data				Log Data		
	Simple	**Full**	**Post**		**Simple**	**Full**	**Post**
Intercept	0.626	15.597	12.026*	(Intercept)	16.329***	−74.749	−83.127*
	(2.457)	(11.596)	(4.935)		(4.060)	(62.095)	(29.940)
Ti.Al	226.403***	−184.524	−143.920	Ti.Al	2.394**	−7.372	−12.874
	(61.557)	(319.357)	(94.835)		(0.782)	(29.283)	(12.958)
Si.Al	−0.928**	−0.241		Si.Al	−0.810+	1.064	0.106
	(0.333)	(1.994)			(0.446)	(5.287)	(2.686)
P.Al	19.550	1519.125	1867.632**	P.Al	−0.078	−1.163	1.041
	(184.512)	(2314.583)	(614.127)		(0.228)	(11.712)	(5.235)
Ni.Al	6.478	−15569.341+	−15307.441**	Ni.Al	−0.027	−8.845	−9.307+
	(653.850)	(8073.303)	(3947.721)		(0.358)	(10.147)	(5.071)

	Raw Data				Log Data		
	Simple	**Full**	**Post**		**Simple**	**Full**	**Post**
Cu.Al	1051.818**	18556.785+	20389.997**	Cu.Al	0.320+	−2.514	−3.404
	(307.476)	(8628.058)	(5549.881)		(0.177)	(4.737)	(2.559)
U.Al	874.910	1676.364	1430.028	U.Al	0.411	−6.561	−5.569+
	(1012.613)	(3441.838)	(2240.033)		(0.245)	(6.108)	(2.731)
Mo.Al	2003.809***	2016.736	1293.089	Mo.Al	0.458**	−2.006	−3.649*
	(469.845)	(2437.628)	(903.641)		(0.126)	(3.571)	(1.466)
Fe.Al	−5.512	−5.299	−3.222	Fe.Al	−0.448*	4.142	3.288
	(4.005)	(9.052)	(5.771)		(0.199)	(5.905)	(2.675)
Zr.Al	−2027.511*	−2064.140+	−2036.758**	Zr.Al	−0.155	0.173	0.226+
	(879.907)	(1120.384)	(658.988)		(0.102)	(0.228)	(0.128)

	Raw Data			Log Data		
	Simple	**Full**	**Post**	**Simple**	**Full**	**Post**
Ti.Al × Si.Al		−3.203		Ti.Al × Si.Al	−1.588	−1.683
		(35.594)			(2.399)	(1.229)
Ti.Al × Ni.Al		212557.166+	204267.700**	Ti.Al × Ni.Al	−1.729	−1.764
		(115135.850)	(70304.851)		(5.312)	(2.157)
Ti.Al × Cu.Al		−191371.925	−220976.656*	Ti.Al × Cu.Al	0.273	−0.449
		(229014.030)	(98033.400)		(2.096)	(0.917)
Si.Al × P.Al		94.052		Si.Al × P.Al	1.005	0.852
		(370.808)			(0.977)	(0.564)
P.Al × Ni.Al		−110872.026	−110630 9.912**	P.Al × Ni.Al	0.404	0.445

	Raw Data			Log Data		
	Simple	**Full**	**Post**	**Simple**	**Full**	**Post**
		(972496.215)	(334448.449)		(2.056)	(0.838)
P.Al × Cu.Al		167035.211		P.Al × Cu.Al	−0.324	
		(1072623.303)			(0.725)	
P.Al × Mo.Al		−62114.455		P.Al × Mo.Al	−0.052	−0.125
		(323953.007)			(0.204)	(0.098)
Ni.Al × Fe.Al		8445.416	8687.790+	Ni.Al × Fe.Al	0.480	0.503
		(14714.848)	(4320.856)		(0.741)	(0.428)
Ni.Al × Mo.Al		1607585.535	1802117.228*	Ni.Al × Mo.Al	0.108	
		(1557255.946)	(685029.154)		(0.521)	

	Raw Data			Log Data		
	Simple	**Full**	**Post**	**Simple**	**Full**	**Post**
Ni.Al × U.Al		−1908921.405	−1935629.594	Ni.Al × U.Al	−0.941	−0.927*
		(2712965.636)	(1403540.007)		(1.044)	(0.411)
Cu.Al × Fe.Al		−20702.818+	−20622.940**	Cu.Al × Fe.Al	0.086	
		(10745.142)	(6112.191)		(0.499)	
Cu.Al × Mo.Al		−3178376.774**	−3171616.733***	Cu.Al × Mo.Al	−0.288	−0.414*
		(977416.177)	(606566.726)		(0.298)	(0.159)
Cu.Al × U.Al		20316362.992*	21255773.727**	Cu.Al × U.Al	−0.050	
		(8797932.238)	(5822041.638)		(0.739)	

	Raw Data				Log Data		
	Simple	**Full**	**Post**		**Simple**	**Full**	**Post**
Mo.Al × Fe.Al		4434.632	3601.124*	Mo.Al × Fe.Al		0.040	
		(3506.888)	(1337.239)			(0.340)	
U.Al × Mo.Al		−3293989.113*	−2982093.941***	U.Al × Mo.Al		−0.064	
		(1480428.792)	(685410.894)			(0.225)	
Num.Obs.	38	38	38	Num.Obs.	38	38	38
R2	0.748	0.959	0.957	R2	0.840	0.946	0.943
R2 Adj.	0.668	0.882	0.911	R2 Adj.	0.788	0.845	0.888
AIC	210.1	171.5	163.3	AIC	91.9	80.8	70.8
BIC	228.1	214.1	197.7	BIC	109.9	123.4	103.6
Log.Lik.	−94.057	−59.758	−60.667	Log.Lik.	−34.956	−14.421	−15.424
F	9.254	12.55	20.880	F	16.288	9.412	17.344

Raw Data

	Simple	Full	Post
RMSE	2.88	1.17	1.19

+ p < 0.1, * p < 0.05, ** p < 0.01, *** p < 0.001

Log Data

	Simple	Full	Post
RMSE	0.61	0.35	0.36

+ p < 0.1, * p < 0.05, ** p < 0.01, *** p < 0.001

Tukey Data

	Simple	Full	Post
(Intercept)	119.945*	−157.798	−162.945
	(47.791)	(406.526)	(208.342)
Ti.Al	84.610*	43.637	62.063
	(35.722)	(242.298)	(166.605)
Si.Al	−16.788+	−990.657+	−824.834*
	(8.668)	(547.569)	(390.478)
P.Al	4.139	287.638	323.298*
	(15.008)	(310.158)	(146.464)
Ni.Al	0.257	43.247	35.423*
	(0.254)	(32.790)	(16.413)
Cu.Al	0.039+	−4.441+	−4.219*
	(0.019)	(2.441)	(1.567)
U.Al	3.311	−53.081	−59.476*

Tukey Data

	Simple	Full	Post
	(3.284)	(40.722)	(23.494)
Mo.Al	35.488*	356.269	420.074+
	(14.562)	(360.780)	(209.090)
Fe.Al	−8.738*	−111.223+	−120.533**
	(3.308)	(55.907)	(39.043)
Zr.Al	−222.194	−380.532	−384.184+
	(132.482)	(260.739)	(208.288)
Ti.Al × Si.Al		−662.691	−530.662+
		(404.280)	(276.255)
Ti.Al × Ni.Al		43.520+	39.783*
		(22.475)	(14.188)
Ti.Al × Cu.Al		−3.882+	−3.875*
		(1.820)	(1.378)
Si.Al × P.Al		440.371+	425.006*
		(216.208)	(187.335)
P.Al × Ni.Al		−1.915	
		(14.369)	
P.Al × Cu.Al		−0.116	
		(0.897)	

Tukey Data

		Simple	Full	Post
P.Al Mo.Al	×		−346.341	−384.636
			(493.804)	(223.283)
Ni.Al Fe.Al	×		−5.498+	−5.710**
			(2.899)	(1.742)
Ni.Al Mo.Al	×		14.704	18.391*
			(9.581)	(6.631)
Ni.Al U.Al	×		−4.421	−5.234**
			(2.548)	(1.626)
Cu.Al Fe.Al	×		0.088	
			(0.166)	
Cu.Al Mo.Al	×		0.340	
			(0.696)	
Cu.Al U.Al	×		0.130	0.185
			(0.187)	(0.109)
Mo.Al Fe.Al	×		221.809+	219.493*
			(117.605)	(93.547)
U.Al Mo.Al	×		43.784	54.613

Tukey Data

	Simple	Full	Post
		(78.022)	(46.809)
Num.Obs.	38	38	38
R2	0.798	0.934	0.932
R2 Adj.	0.734	0.811	0.851
AIC	190.5	178.2	171.4
BIC	208.5	220.8	207.4
Log.Lik.	−84.263	−63.117	−63.684
F	12.319	7.635	11.603
RMSE	2.22	1.27	1.29

+ p < 0.1, * p < 0.05, ** p < 0.01, *** p < 0.001