

----- REGRESSION ANALYSIS -----

HEADER DATA FOR: B:WINDY LABEL: PAI geochem file: BC GEN WINDY
 NUMBER OF CASES: 17 NUMBER OF VARIABLES: 11

 WINDY CLAIMS SOIL GEOCHEMISTRY

INDEX	NAME	MEAN	STD. DEV.
1	MO	1.735	1.213
2	CU	2,122.824	2,310.430
3	ZN	39.353	19.830
4	PB	26.412	59.317
5	NI	28.706	11.201
6	AG	0.565	0.558
7	AS	1.735	2.617
8	SB	4.706	6.872
9	PT	0.010	0.000
10	PD	134.122	217.456
DEP. VAR. :	AU	0.271	0.350

F TO ENTER = 3 , F TO REMOVE = 3 , TOLERANCE = 0.0010

 STEP 1 . VARIABLE 2 : CU ENTERED.

DEPENDENT VARIABLE: AU

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 15)
CU	0.0001	0.0000	48.015
CONSTANT:	-0.0101		

STD. ERROR OF EST. = 0.1764
 r SQUARED = 0.7620
 r = 0.8729

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	1.4934	1	1.4934	48.0153
RESIDUAL	0.4665	15	0.0311	
TOTAL	1.9599	16		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r ²	TOLERANCE	F TO ENTER
ZN	0.0140	0.0000	0.1983
PB	0.0697	8.9436	1.0489
NI	0.0544	0.0278	0.8058
AG	0.0001	0.0008	0.0008
AS	0.0237	20.9009	0.3399
SB	0.0531	6.5366	0.7850
PD	0.3940	454.7826	9.1020

 STEP 2 . VARIABLE 10 : PD ENTERED.

DEPENDENT VARIABLE: AU

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 14)	PARTIAL r ²
CU	0.0001	0.0000	12.718	0.4760
PD	0.0007	0.0002	9.102	0.3940
CONSTANT:	-0.0002			

STD. ERROR OF EST. = 0.1421
 R SQUARED = 0.8557
 MULTIPLE R = 0.9251

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	1.6772	2	0.8386	41.5259
RESIDUAL	0.2827	14	0.0202	
TOTAL	1.9599	16		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r ²	TOLERANCE	F TO ENTER
ZN	0.3580	0.0000	7.2502
PB	0.0739	8.8795	1.0375
NI	0.0918	0.0159	1.3147
AG	0.3018	0.0005	5.6181
AS	0.0079	20.5124	0.1030
SB	0.0294	6.3754	0.3939

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7	AU	0.271	0.350
8	AS	1.735	2.617
9	SB	4.706	6.872
10	PT	0.010	0.000
DEP. VAR.:	PD	134.122	217.456

F TO ENTER = 3 , F TO REMOVE = 3 , TOLERANCE = 0.0010

 STEP 1 . VARIABLE 7 : AU ENTERED.

DEPENDENT VARIABLE: PD

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 15)
AU	528.9265	84.1717	39.487
CONSTANT:	-8.9989		

STD. ERROR OF EST. = 117.8371
 r SQUARED = 0.7247
 r = -0.8513

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	548306.3669	1	548306.3669	39.4874
RESIDUAL	208283.9394	15	13885.5960	
TOTAL	756590.3063	16		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r ²	TOLERANCE	F TO ENTER
MO	0.0150	0.9592	0.2130
CU	0.0003	0.2380	0.0039
ZN	0.3545	0.6726	7.6898
PB	0.0101	0.9877	0.1434
NI	0.4494	0.7395	11.4246
AG	0.3286	0.4833	6.8508
AS	0.0029	0.9850	0.0411
SB	0.0004	0.9919	0.0060

 STEP 2 . VARIABLE 5 : NI ENTERED.

DEPENDENT VARIABLE: PD

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 14)	PARTIAL r ²
NI	7.9399	2.3490	11.425	0.4494
AU	399.2369	75.1807	28.200	0.6682
CONSTANT:	-201.8269			

STD. ERROR OF EST. = 90.5109
 R SQUARED = 0.8484
 MULTIPLE R = 0.9211

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	641899.2627	2	320949.6314	39.1774
RESIDUAL	114691.0436	14	8192.2174	
TOTAL	756590.3063	16		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r ²	TOLERANCE	F TO ENTER
MO	0.0165	0.9576	0.2185
CU	0.0055	0.2373	0.0724
ZN	0.0932	0.4104	1.3354
PB	0.0506	0.8448	0.6922
AG	0.1684	0.3858	2.6334
AS	0.1766	0.7514	2.7884
SB	0.1096	0.8925	1.6001

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6	AU	0.271	0.350
7	AS	1.735	2.617
8	SB	4.706	6.872
9	PT	0.010	0.000
10	PD	134.122	217.456
DEP. VAR.:	CU	2,122.824	2,310.430

F TO ENTER = 3 , F TO REMOVE = 3 , TOLERANCE = 0.0010

STEP 1 . VARIABLE 6 : AU ENTERED.

DEPENDENT VARIABLE: **CU**

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 15)
AU	5762.3940	831.5974	48.015
CONSTANT:	563.5875		

STD. ERROR OF EST. = 1164.2048
 r SQUARED = 0.7620
 r = 0.8729

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	65078643.2266	1	65078643.2266	48.0153
RESIDUAL	20330589.2440	15	1355372.6163	
TOTAL	85409232.4706	16		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r ²	TOLERANCE	F TO ENTER
MO	0.0660	0.9592	0.9890
ZN	0.2575	0.6726	4.8547
PB	0.0585	0.9877	0.8705
NI	0.0033	0.7395	0.0462
AG	0.3420	0.4833	7.2777
AS	0.0586	0.9850	0.8715
PD	0.0003	275.6795	0.0039

STEP 2 . VARIABLE 5 : AG ENTERED.

DEPENDENT VARIABLE: **CU**

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 14)	PARTIAL r ²
AG	1699.8949	630.1240	7.278	0.3420
AU	3814.9091	1004.3218	14.429	0.5075
CONSTANT:	130.6133			

STD. ERROR OF EST. = 977.4916
 R SQUARED = 0.8434
 MULTIPLE R = 0.9184

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	72032379.8264	2	36016189.9132	37.6940
RESIDUAL	13376852.6442	14	955489.4746	
TOTAL	85409232.4706	16		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r ²	TOLERANCE	F TO ENTER
MO	0.1260	0.9566	1.8740
ZN	0.0003	0.1805	0.0038
PB	0.0129	0.9201	0.1699
NI	0.0803	0.5903	1.1351
AS	0.0424	0.9682	0.5761
PD	0.2804	185.1013	5.0654

STEP 3 . VARIABLE 10 : PD ENTERED.

DEPENDENT VARIABLE: **CU**

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 13)	PARTIAL r ²
AG	2573.2287	676.9612	14.449	0.5264
AU	5553.5827	1174.0809	22.374	0.6325
PD	-5.1788	2.3010	5.065	0.2804
CONSTANT:	-138.4342			

STD. ERROR OF EST. = 860.5044
 R SQUARED = 0.8873
 MULTIPLE R = 0.9420

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	75783148.2707	3	25261049.4236	34.1150
RESIDUAL	9626084.1999	13	740468.0154	
TOTAL	85409232.4706	16		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r ²	TOLERANCE	F TO ENTER
MO	0.1226	0.9444	1.6774
ZN	0.0325	0.1694	0.4034
PB	0.0091	0.9165	0.1096
NI	0.0005	0.4026	0.0057
AS	0.0212	0.9438	0.2598

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6	AU	0.271	0.350
7	AS	1.735	2.617
8	SB	4.706	6.872
9	PT	0.010	0.000
10	PD	134.122	217.456
DEP. VAR.:	NI	28.706	11.201

F TO ENTER = 3 , F TO REMOVE = 3 , TOLERANCE = 0.0010

STEP 1 . VARIABLE 10 : PD ENTERED.

DEPENDENT VARIABLE: NI

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 15)
PD	0.0380	0.0090	17.828
CONSTANT:	23.6146		

STD. ERROR OF EST. = 7.8201
 r SQUARED = 0.5431
 r = 0.7369

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	1090.2224	1	1090.2224	17.8275
RESIDUAL	917.3070	15	61.1538	
TOTAL	2007.5294	16		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r^2	TOLERANCE	F TO ENTER
MO	0.0030	0.9448	0.0420
CU	0.0270	0.4541	0.3891
ZN	0.1666	0.4475	2.7990
PB	0.1965	0.9983	3.4235
AG	0.0062	0.3260	0.0872
AU	0.1088	0.2753	1.7091
AS	0.3686	0.9942	8.1744
SB	0.1587	0.9957	2.6404

STEP 2 . VARIABLE 7 : AS ENTERED.

DEPENDENT VARIABLE: NI

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 14)	PARTIAL r^2
AS	1.7619	0.6163	8.174	0.3686
PD	0.0396	0.0074	28.472	0.6704
CONSTANT:	20.3411			

STD. ERROR OF EST. = 6.4318
 R SQUARED = 0.7115
 MULTIPLE R = 0.8435

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	1428.3804	2	714.1902	17.2644
RESIDUAL	579.1491	14	41.3678	
TOTAL	2007.5294	16		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r^2	TOLERANCE	F TO ENTER
MO	0.0111	0.9427	0.1459
CU	0.0003	0.4258	0.0036
ZN	0.0838	0.4039	1.1897
PB	0.2197	0.9836	3.6606
AG	0.0675	0.3125	0.9409
AU	0.1108	0.2719	1.6205
SB	0.1736	0.9827	2.7303

STEP 3 . VARIABLE 4 : PB ENTERED.

DEPENDENT VARIABLE: NI

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 13)	PARTIAL r^2
PB	-0.0479	0.0251	3.661	0.2197
AS	1.6300	0.5691	8.204	0.3869
PD	0.0400	0.0068	34.580	0.7268
CONSTANT:	21.7790			

STD. ERROR OF EST. = 5.8959
 R SQUARED = 0.7749
 MULTIPLE R = 0.8803

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	1555.6291	3	518.5430	14.9171
RESIDUAL	451.9003	13	34.7616	
TOTAL	2007.5294	16		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r^2	TOLERANCE	F TO ENTER
MO	0.0004	0.9096	0.0049
CU	0.0061	0.4205	0.0738
ZN	0.0862	0.4021	1.1320
AG	0.0246	0.2898	0.3024
AU	0.0959	0.2672	1.2723
SB	0.0121	0.0918	0.1468