

APPENDIX IV

2006 PRECIPITATION QUALITY SUMMARY CORRELATION COEFFICIENT

MATRICES

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

All Sites

Cold Season: 3 January through 3 April 2006 and 31 October 2006 through 1 January 2007

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 309	-0.23627 <0.0001 273	-0.45676 <0.0001 273	-0.26223 <0.0001 262	-0.36399 <0.0001 262	-0.63599 <0.0001 262	-0.50121 <0.0001 262	-0.57042 <0.0001 262	-0.37432 <0.0001 262	-0.15377 0.0127 262	-0.40263 <0.0001 262
HYD Hydrogen	-0.23627 <0.0001 273	1.00000 273	0.68690 <0.0001 272	0.19577 0.0014 262	0.61733 <0.0001 262	0.61305 <0.0001 262	0.44799 <0.0001 262	0.24350 <0.0001 262	0.09731 0.1161 262	0.09541 0.1235 262	0.23019 0.0002 262
COND Conductivity	-0.45676 <0.0001 273	0.68690 <0.0001 272	1.00000 273	0.48834 <0.0001 262	0.77379 <0.0001 262	0.81396 <0.0001 262	0.71232 <0.0001 262	0.61038 <0.0001 262	0.46824 <0.0001 262	0.37452 <0.0001 262	0.45441 <0.0001 262
CL Chloride	-0.26223 <0.0001 262	0.19577 0.0014 262	0.48834 <0.0001 262	1.00000 262	0.44610 <0.0001 262	0.40999 <0.0001 262	0.48329 <0.0001 262	0.60346 <0.0001 262	0.76534 <0.0001 262	0.84650 <0.0001 262	0.65606 <0.0001 262
SO4 Sulfate	-0.36399 <0.0001 262	0.61733 <0.0001 262	0.77379 <0.0001 262	0.44610 <0.0001 262	1.00000 262	0.66172 <0.0001 262	0.80306 <0.0001 262	0.63203 <0.0001 262	0.55553 <0.0001 262	0.39338 <0.0001 262	0.49608 <0.0001 262
NO3 Nitrate	-0.63599 <0.0001 262	0.61305 <0.0001 262	0.81396 <0.0001 262	0.40999 <0.0001 262	0.66172 <0.0001 262	1.00000 293	0.79593 <0.0001 262	0.75434 <0.0001 262	0.53269 <0.0001 262	0.28784 <0.0001 262	0.44414 <0.0001 262
NH4 Ammonium	-0.50121 <0.0001 262	0.44799 <0.0001 262	0.71232 <0.0001 262	0.48329 <0.0001 262	0.80306 <0.0001 262	0.79593 <0.0001 262	1.00000 262	0.71872 <0.0001 262	0.60803 <0.0001 262	0.38573 <0.0001 262	0.47214 <0.0001 262
CA Calcium	-0.57042 <0.0001 262	0.24350 <0.0001 262	0.61038 <0.0001 262	0.60346 <0.0001 262	0.63203 <0.0001 262	0.75434 <0.0001 262	0.71872 <0.0001 262	1.00000 262	0.85210 <0.0001 262	0.57149 <0.0001 262	0.60683 <0.0001 262
MG Magnesium	-0.37432 <0.0001 262	0.09731 0.1161 262	0.46824 <0.0001 262	0.76534 <0.0001 262	0.55553 <0.0001 262	0.53269 <0.0001 262	0.60803 <0.0001 262	0.85210 <0.0001 262	1.00000 262	0.82369 <0.0001 262	0.67145 <0.0001 262
NA Sodium	-0.15377 0.0127 262	0.09541 0.1235 262	0.37452 <0.0001 262	0.84650 <0.0001 262	0.39338 <0.0001 262	0.28784 <0.0001 262	0.38573 <0.0001 262	0.57149 <0.0001 262	0.82369 <0.0001 262	1.00000 262	0.72069 <0.0001 262
K Potassium	-0.40263 <0.0001 262	0.23019 0.0002 262	0.45441 <0.0001 262	0.65606 <0.0001 262	0.49608 <0.0001 262	0.44414 <0.0001 262	0.47214 <0.0001 262	0.60683 <0.0001 262	0.67145 <0.0001 262	0.72069 <0.0001 262	1.00000 262

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

All Sites

Warm Season: 4 April through 30 October 2006

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 510	-0.18919 <0.0001 469	-0.37423 <0.0001 468	-0.34775 <0.0001 466	-0.43788 <0.0001 466	-0.54374 <0.0001 466	-0.32127 <0.0001 466	-0.53308 <0.0001 466	-0.42640 <0.0001 466	-0.15464 0.0008 466	-0.20239 <0.0001 466
HYD Hydrogen	-0.18919 <0.0001 469	1.00000 469	0.64985 <0.0001 468	0.21196 <0.0001 466	0.58563 <0.0001 466	0.38891 <0.0001 466	0.18513 <0.0001 466	0.11672 0.0117 466	-0.01000 0.8296 466	0.01034 0.8238 466	-0.08305 0.0733 466
COND Conductivity	-0.37423 <0.0001 468	0.64985 <0.0001 468	1.00000 468	0.50565 <0.0001 466	0.86980 <0.0001 466	0.67161 <0.0001 466	0.50127 <0.0001 466	0.48199 <0.0001 466	0.38292 <0.0001 466	0.19012 <0.0001 466	0.18276 <0.0001 466
CL Chloride	-0.34775 <0.0001 466	0.21196 <0.0001 466	0.50565 <0.0001 466	1.00000 466	0.55370 <0.0001 466	0.60440 <0.0001 466	0.45557 <0.0001 466	0.62752 <0.0001 466	0.72218 <0.0001 466	0.77079 <0.0001 466	0.55593 <0.0001 466
SO4 Sulfate	-0.43788 <0.0001 466	0.58563 <0.0001 466	0.86980 <0.0001 466	0.55370 <0.0001 466	1.00000 466	0.76947 <0.0001 466	0.70760 <0.0001 466	0.65496 <0.0001 466	0.54494 <0.0001 466	0.29077 <0.0001 466	0.29849 <0.0001 466
NO3 Nitrate	-0.54374 <0.0001 466	0.38891 <0.0001 466	0.67161 <0.0001 466	0.60440 <0.0001 466	0.76947 <0.0001 466	1.00000 500	0.71948 <0.0001 466	0.78012 <0.0001 466	0.68422 <0.0001 466	0.40698 <0.0001 466	0.38075 <0.0001 466
NH4 Ammonium	-0.32127 <0.0001 466	0.18513 <0.0001 466	0.50127 <0.0001 466	0.45557 <0.0001 466	0.70760 <0.0001 466	0.71948 <0.0001 466	1.00000 466	0.60000 <0.0001 466	0.53866 <0.0001 466	0.32708 <0.0001 466	0.36677 <0.0001 466
CA Calcium	-0.53308 <0.0001 466	0.11672 0.0117 466	0.48199 <0.0001 466	0.62752 <0.0001 466	0.65496 <0.0001 466	0.78012 <0.0001 466	0.60000 <0.0001 466	1.00000 466	0.89231 <0.0001 466	0.49776 <0.0001 466	0.54540 <0.0001 466
MG Magnesium	-0.42640 <0.0001 466	-0.01000 0.8296 466	0.38292 <0.0001 466	0.72218 <0.0001 466	0.54494 <0.0001 466	0.68422 <0.0001 466	0.53866 <0.0001 466	0.89231 <0.0001 466	1.00000 466	0.66305 <0.0001 466	0.69942 <0.0001 466
NA Sodium	-0.15464 0.0008 466	0.01034 0.8238 466	0.19012 <0.0001 466	0.77079 <0.0001 466	0.29077 <0.0001 466	0.40698 <0.0001 466	0.32708 <0.0001 466	0.49776 <0.0001 466	0.66305 <0.0001 466	1.00000 466	0.67006 <0.0001 466
K Potassium	-0.20239 <0.0001 466	-0.08305 0.0733 466	0.18276 <0.0001 466	0.55593 <0.0001 466	0.29849 <0.0001 466	0.38075 <0.0001 466	0.36677 <0.0001 466	0.54540 <0.0001 466	0.69942 <0.0001 466	0.67006 <0.0001 466	1.00000 466

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

All Sites

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 <0.0001 773	-0.18152 <0.0001 704	-0.37775 <0.0001 703	-0.35670 <0.0001 690	-0.34023 <0.0001 690	-0.54537 <0.0001 690	-0.32991 <0.0001 690	-0.50636 <0.0001 690	-0.38936 <0.0001 690	-0.19917 <0.0001 690	-0.21077 <0.0001 690
HYD Hydrogen	-0.18152 <0.0001 704	1.00000 <0.0001 704	0.64894 <0.0001 702	0.18154 <0.0001 690	0.56714 <0.0001 690	0.44389 <0.0001 690	0.26207 <0.0001 690	0.15093 <0.0001 690	0.02020 0.5963 690	0.02572 0.5000 690	0.01262 0.7406 690
COND Conductivity	-0.37775 <0.0001 703	0.64894 <0.0001 702	1.00000 <0.0001 703	0.44977 <0.0001 690	0.81112 <0.0001 690	0.72179 <0.0001 690	0.58253 <0.0001 690	0.53695 <0.0001 690	0.41873 <0.0001 690	0.22421 <0.0001 690	0.28090 <0.0001 690
CL Chloride	-0.35670 <0.0001 690	0.18154 <0.0001 690	0.44977 <0.0001 690	1.00000 <0.0001 690	0.36623 <0.0001 690	0.51224 <0.0001 690	0.38733 <0.0001 690	0.56192 <0.0001 690	0.68308 <0.0001 690	0.81527 <0.0001 690	0.46968 <0.0001 690
SO4 Sulfate	-0.34023 <0.0001 690	0.56714 <0.0001 690	0.81112 <0.0001 690	0.36623 <0.0001 690	1.00000 <0.0001 690	0.65575 <0.0001 690	0.74466 <0.0001 690	0.62987 <0.0001 690	0.53312 <0.0001 690	0.19812 <0.0001 690	0.39330 <0.0001 690
NO3 Nitrate	-0.54537 <0.0001 690	0.44389 <0.0001 690	0.72179 <0.0001 690	0.51224 <0.0001 690	0.65575 <0.0001 690	1.00000 749	0.72336 <0.0001 690	0.75826 <0.0001 690	0.60822 <0.0001 690	0.36119 <0.0001 690	0.37091 <0.0001 690
NH4 Ammonium	-0.32991 <0.0001 690	0.26207 <0.0001 690	0.58253 <0.0001 690	0.38733 <0.0001 690	0.74466 <0.0001 690	0.72336 <0.0001 690	1.00000 690	0.64273 <0.0001 690	0.56063 <0.0001 690	0.27956 <0.0001 690	0.40747 <0.0001 690
CA Calcium	-0.50636 <0.0001 690	0.15093 <0.0001 690	0.53695 <0.0001 690	0.56192 <0.0001 690	0.62987 <0.0001 690	0.75826 <0.0001 690	0.64273 <0.0001 690	1.00000 690	0.87292 <0.0001 690	0.46616 <0.0001 690	0.55401 <0.0001 690
MG Magnesium	-0.38936 <0.0001 690	0.02020 0.5963 690	0.41873 <0.0001 690	0.68308 <0.0001 690	0.53312 <0.0001 690	0.60822 <0.0001 690	0.56063 <0.0001 690	0.87292 <0.0001 690	1.00000 690	0.65855 <0.0001 690	0.66955 <0.0001 690
NA Sodium	-0.19917 <0.0001 690	0.02572 0.5000 690	0.22421 <0.0001 690	0.81527 <0.0001 690	0.19812 <0.0001 690	0.36119 <0.0001 690	0.27956 <0.0001 690	0.46616 <0.0001 690	0.65855 <0.0001 690	1.00000 690	0.56845 <0.0001 690
K Potassium	-0.21077 <0.0001 690	0.01262 0.7406 690	0.28090 <0.0001 690	0.46968 <0.0001 690	0.39330 <0.0001 690	0.37091 <0.0001 690	0.40747 <0.0001 690	0.55401 <0.0001 690	0.66955 <0.0001 690	0.56845 <0.0001 690	1.00000 690

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

All PSU/PDER Sites

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 456	-0.12311 0.0120 416	-0.36287 <0.0001 415	-0.43418 <0.0001 402	-0.30847 <0.0001 402	-0.50196 <0.0001 402	-0.33903 <0.0001 402	-0.45727 <0.0001 402	-0.35949 <0.0001 402	-0.31908 <0.0001 402	-0.19255 0.0001 402
HYD Hydrogen	-0.12311 0.0120 416	1.00000 416	0.61348 <0.0001 414	0.18433 0.0002 402	0.51483 <0.0001 402	0.37915 <0.0001 402	0.24834 <0.0001 402	0.08965 0.0726 402	-0.03535 0.4797 402	0.06751 0.1767 402	-0.00066 0.9894 402
COND Conductivity	-0.36287 <0.0001 415	0.61348 <0.0001 414	1.00000 415	0.47918 <0.0001 402	0.81124 <0.0001 402	0.72670 <0.0001 402	0.62027 <0.0001 402	0.52978 <0.0001 402	0.42380 <0.0001 402	0.33969 <0.0001 402	0.31459 <0.0001 402
CL Chloride	-0.43418 <0.0001 402	0.18433 0.0002 402	0.47918 <0.0001 402	1.00000 402	0.38556 <0.0001 402	0.50593 <0.0001 402	0.40031 <0.0001 402	0.55688 <0.0001 402	0.60732 <0.0001 402	0.78515 <0.0001 402	0.35981 <0.0001 402
SO4 Sulfate	-0.30847 <0.0001 402	0.51483 <0.0001 402	0.81124 <0.0001 402	0.38556 <0.0001 402	1.00000 402	0.64540 <0.0001 402	0.77450 <0.0001 402	0.63825 <0.0001 402	0.56632 <0.0001 402	0.28745 <0.0001 402	0.42570 <0.0001 402
NO3 Nitrate	-0.50196 <0.0001 402	0.37915 <0.0001 402	0.72670 <0.0001 402	0.50593 <0.0001 402	0.64540 <0.0001 402	1.00000 414	0.77798 <0.0001 402	0.74788 <0.0001 402	0.59196 <0.0001 402	0.41130 <0.0001 402	0.32521 <0.0001 402
NH4 Ammonium	-0.33903 <0.0001 402	0.24834 <0.0001 402	0.62027 <0.0001 402	0.40031 <0.0001 402	0.77450 <0.0001 402	0.77798 <0.0001 402	1.00000 402	0.69816 <0.0001 402	0.61288 <0.0001 402	0.35024 <0.0001 402	0.42207 <0.0001 402
CA Calcium	-0.45727 <0.0001 402	0.08965 0.0726 402	0.52978 <0.0001 402	0.55688 <0.0001 402	0.63825 <0.0001 402	0.74788 <0.0001 402	0.69816 <0.0001 402	1.00000 402	0.87623 <0.0001 402	0.52999 <0.0001 402	0.52163 <0.0001 402
MG Magnesium	-0.35949 <0.0001 402	-0.03535 0.4797 402	0.42380 <0.0001 402	0.60732 <0.0001 402	0.56632 <0.0001 402	0.59196 <0.0001 402	0.61288 <0.0001 402	0.87623 <0.0001 402	1.00000 402	0.65432 <0.0001 402	0.58961 <0.0001 402
NA Sodium	-0.31908 <0.0001 402	0.06751 0.1767 402	0.33969 <0.0001 402	0.78515 <0.0001 402	0.28745 <0.0001 402	0.41130 <0.0001 402	0.35024 <0.0001 402	0.52999 <0.0001 402	0.65432 <0.0001 402	1.00000 402	0.47943 <0.0001 402
K Potassium	-0.19255 0.0001 402	-0.00066 0.9894 402	0.31459 <0.0001 402	0.35981 <0.0001 402	0.42570 <0.0001 402	0.32521 <0.0001 402	0.42207 <0.0001 402	0.52163 <0.0001 402	0.58961 <0.0001 402	0.47943 <0.0001 402	1.00000 402

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

All NADP/NTN Sites

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

PRECIP Precipitation	1.00000 317	-0.26601 <0.0001 288	-0.26601 <0.0001 288	-0.40505 <0.0001 288	-0.28324 <0.0001 288	-0.37735 <0.0001 288	-0.59912 <0.0001 288	-0.31992 <0.0001 288	-0.57894 <0.0001 288	-0.44987 <0.0001 288	-0.14915 0.0113 288	-0.31808 <0.0001 288
HYD Hydrogen	-0.26601 <0.0001 288	1.00000 288	1.00000 <0.0001 288	0.72262 <0.0001 288	0.20560 0.0004 288	0.64793 <0.0001 288	0.54137 <0.0001 288	0.28751 <0.0001 288	0.24716 <0.0001 288	0.10358 0.0793 288	0.00707 0.9049 288	0.05066 0.3917 288
LHYD Lab. pH	-0.26601 <0.0001 288	1.00000 <0.0001 288	1.00000 <0.0001 288	0.72262 <0.0001 288	0.20560 0.0004 288	0.64793 <0.0001 288	0.54137 <0.0001 288	0.28751 <0.0001 288	0.24716 <0.0001 288	0.10358 0.0793 288	0.00707 0.9049 288	0.05066 0.3917 288
COND Conductivity	-0.40505 <0.0001 288	0.72262 <0.0001 288	0.72262 <0.0001 288	1.00000 288	0.41767 <0.0001 288	0.82081 <0.0001 288	0.72876 <0.0001 288	0.53863 <0.0001 288	0.55188 <0.0001 288	0.42257 <0.0001 288	0.14143 0.0163 288	0.32200 <0.0001 288
CL Chloride	-0.28324 <0.0001 288	0.20560 0.0004 288	0.20560 0.0004 288	0.41767 <0.0001 288	1.00000 288	0.31555 <0.0001 288	0.49683 <0.0001 288	0.34215 <0.0001 288	0.51939 <0.0001 288	0.71652 <0.0001 288	0.87308 <0.0001 288	0.40395 <0.0001 288
SO4 Sulfate	-0.37735 <0.0001 288	0.64793 <0.0001 288	0.64793 <0.0001 288	0.82081 <0.0001 288	0.31555 <0.0001 288	1.00000 288	0.65933 <0.0001 288	0.70591 <0.0001 288	0.60989 <0.0001 288	0.48549 <0.0001 288	0.09000 0.1276 288	0.42545 <0.0001 288
NO3 Nitrate	-0.59912 <0.0001 288	0.54137 <0.0001 288	0.54137 <0.0001 288	0.72876 <0.0001 288	0.49683 <0.0001 288	0.65933 <0.0001 288	1.00000 335	0.65635 <0.0001 288	0.76209 <0.0001 288	0.61251 <0.0001 288	0.30624 <0.0001 288	0.42363 <0.0001 288
NH4 Ammonium	-0.31992 <0.0001 288	0.28751 <0.0001 288	0.28751 <0.0001 288	0.53863 <0.0001 288	0.34215 <0.0001 288	0.70591 <0.0001 288	0.65635 <0.0001 288	1.00000 288	0.56660 <0.0001 288	0.49005 <0.0001 288	0.19992 0.0006 288	0.44345 <0.0001 288
CA Calcium	-0.57894 <0.0001 288	0.24716 <0.0001 288	0.24716 <0.0001 288	0.55188 <0.0001 288	0.51939 <0.0001 288	0.60989 <0.0001 288	0.76209 <0.0001 288	0.56660 <0.0001 288	1.00000 288	0.86528 <0.0001 288	0.38907 <0.0001 288	0.63069 <0.0001 288
MG Magnesium	-0.44987 <0.0001 288	0.10358 0.0793 288	0.10358 0.0793 288	0.42257 <0.0001 288	0.71652 <0.0001 288	0.48549 <0.0001 288	0.61251 <0.0001 288	0.49005 <0.0001 288	0.86528 <0.0001 288	1.00000 288	0.62087 <0.0001 288	0.72720 <0.0001 288
NA Sodium	-0.14915 0.0113 288	0.00707 0.9049 288	0.00707 0.9049 288	0.14143 0.0163 288	0.87308 <0.0001 288	0.09000 0.1276 288	0.30624 <0.0001 288	0.19992 0.0006 288	0.38907 <0.0001 288	0.62087 <0.0001 288	1.00000 288	0.31758 <0.0001 288
K Potassium	-0.31808 <0.0001 288	0.05066 0.3917 288	0.05066 0.3917 288	0.32200 <0.0001 288	0.40395 <0.0001 288	0.42545 <0.0001 288	0.42363 <0.0001 288	0.44345 <0.0001 288	0.63069 <0.0001 288	0.72720 <0.0001 288	0.31758 <0.0001 288	1.00000 288

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=ALLEPORT

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 50	-0.39627 0.0085 43	-0.46452 0.0017 43	-0.65542 <0.0001 42	-0.41413 0.0064 42	-0.56348 0.0001 42	-0.26637 0.0882 42	-0.53525 0.0003 42	-0.50130 0.0007 42	-0.46613 0.0019 42	-0.09913 0.5323 42
HYD Hydrogen	-0.39627 0.0085 43	1.00000 43	0.83343 <0.0001 43	0.43059 0.0044 42	0.85040 <0.0001 42	0.59310 <0.0001 42	0.41287 0.0066 42	0.43239 0.0042 42	0.29171 0.0609 42	0.32023 0.0387 42	0.21848 0.1645 42
COND Conductivity	-0.46452 0.0017 43	0.83343 <0.0001 43	1.00000 43	0.63001 <0.0001 42	0.84984 <0.0001 42	0.77887 <0.0001 42	0.60545 <0.0001 42	0.55979 0.0001 42	0.52187 0.0004 42	0.49706 0.0008 42	0.38478 0.0119 42
CL Chloride	-0.65542 <0.0001 42	0.43059 0.0044 42	0.63001 <0.0001 42	1.00000 42	0.43463 0.0040 42	0.77937 <0.0001 42	0.40972 0.0070 42	0.66116 <0.0001 42	0.63034 <0.0001 42	0.78048 <0.0001 42	0.19263 0.2216 42
SO4 Sulfate	-0.41413 0.0064 42	0.85040 <0.0001 42	0.84984 <0.0001 42	0.43463 0.0040 42	1.00000 42	0.67880 <0.0001 42	0.70686 <0.0001 42	0.55041 0.0002 42	0.54347 0.0002 42	0.29347 0.0593 42	0.51183 0.0005 42
NO3 Nitrate	-0.56348 0.0001 42	0.59310 <0.0001 42	0.77887 <0.0001 42	0.77937 <0.0001 42	0.67880 <0.0001 42	1.00000 44	0.65868 <0.0001 42	0.82859 <0.0001 42	0.75883 <0.0001 42	0.66142 <0.0001 42	0.31629 0.0413 42
NH4 Ammonium	-0.26637 0.0882 42	0.41287 0.0066 42	0.60545 <0.0001 42	0.40972 0.0070 42	0.70686 <0.0001 42	0.65868 <0.0001 42	1.00000 42	0.47031 0.0017 42	0.49869 0.0008 42	0.34025 0.0275 42	0.36630 0.0170 42
CA Calcium	-0.53525 0.0003 42	0.43239 0.0042 42	0.55979 0.0001 42	0.66116 <0.0001 42	0.55041 0.0002 42	0.82859 <0.0001 42	0.47031 0.0017 42	1.00000 42	0.90775 <0.0001 42	0.59105 <0.0001 42	0.26886 0.0851 42
MG Magnesium	-0.50130 0.0007 42	0.29171 0.0609 42	0.52187 0.0004 42	0.63034 <0.0001 42	0.54347 0.0002 42	0.75883 <0.0001 42	0.49869 0.0008 42	0.90775 <0.0001 42	1.00000 42	0.57768 <0.0001 42	0.50640 0.0006 42
NA Sodium	-0.46613 0.0019 42	0.32023 0.0387 42	0.49706 0.0008 42	0.78048 <0.0001 42	0.29347 0.0593 42	0.66142 <0.0001 42	0.34025 0.0275 42	0.59105 <0.0001 42	0.57768 <0.0001 42	1.00000 42	0.22440 0.1531 42
K Potassium	-0.09913 0.5323 42	0.21848 0.1645 42	0.38478 0.0119 42	0.19263 0.2216 42	0.51183 0.0005 42	0.31629 0.0413 42	0.36630 0.0170 42	0.26886 0.0851 42	0.50640 0.0006 42	0.22440 0.1531 42	1.00000 42

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=CROOKCRK

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 50	-0.09890 0.5281 43	-0.40018 0.0078 43	-0.57777 <0.0001 42	-0.22452 0.1529 42	-0.40647 0.0076 42	-0.21623 0.1690 42	-0.44808 0.0029 42	-0.38167 0.0126 42	-0.55493 0.0001 42	-0.25717 0.1001 42
HYD Hydrogen	-0.09890 0.5281 43	1.00000 43	0.60533 <0.0001 43	0.50240 0.0007 42	0.67306 <0.0001 42	0.58273 <0.0001 42	0.53256 0.0003 42	0.41601 0.0061 42	0.32676 0.0347 42	0.33309 0.0311 42	0.19066 0.2265 42
COND Conductivity	-0.40018 0.0078 43	0.60533 <0.0001 43	1.00000 43	0.62872 <0.0001 42	0.78055 <0.0001 42	0.73454 <0.0001 42	0.69240 <0.0001 42	0.63521 <0.0001 42	0.57832 <0.0001 42	0.52466 0.0004 42	0.32559 0.0354 42
CL Chloride	-0.57777 <0.0001 42	0.50240 0.0007 42	0.62872 <0.0001 42	1.00000 42	0.43099 0.0044 42	0.67055 <0.0001 42	0.46724 0.0018 42	0.66464 <0.0001 42	0.56396 0.0001 42	0.69973 <0.0001 42	0.25019 0.1100 42
SO4 Sulfate	-0.22452 0.1529 42	0.67306 <0.0001 42	0.78055 <0.0001 42	0.43099 0.0044 42	1.00000 42	0.56590 <0.0001 42	0.86358 <0.0001 42	0.67706 <0.0001 42	0.65676 <0.0001 42	0.32452 0.0360 42	0.41369 0.0065 42
NO3 Nitrate	-0.40647 0.0076 42	0.58273 <0.0001 42	0.73454 <0.0001 42	0.67055 <0.0001 42	0.56590 <0.0001 42	1.00000 44	0.76653 <0.0001 42	0.74819 <0.0001 42	0.65600 <0.0001 42	0.60325 <0.0001 42	0.31369 0.0431 42
NH4 Ammonium	-0.21623 0.1690 42	0.53256 0.0003 42	0.69240 <0.0001 42	0.46724 0.0018 42	0.86358 <0.0001 42	0.76653 <0.0001 42	1.00000 42	0.74456 <0.0001 42	0.68168 <0.0001 42	0.42090 0.0055 42	0.40566 0.0077 42
CA Calcium	-0.44808 0.0029 42	0.41601 0.0061 42	0.63521 <0.0001 42	0.66464 <0.0001 42	0.67706 <0.0001 42	0.74819 <0.0001 42	0.74456 <0.0001 42	1.00000 42	0.93844 <0.0001 42	0.66141 <0.0001 42	0.48967 0.0010 42
MG Magnesium	-0.38167 0.0126 42	0.32676 0.0347 42	0.57832 <0.0001 42	0.56396 0.0001 42	0.65676 <0.0001 42	0.65600 <0.0001 42	0.68168 <0.0001 42	0.93844 <0.0001 42	1.00000 42	0.60582 <0.0001 42	0.54752 0.0002 42
NA Sodium	-0.55493 0.0001 42	0.33309 0.0311 42	0.52466 0.0004 42	0.69973 <0.0001 42	0.32452 0.0360 42	0.60325 <0.0001 42	0.42090 0.0055 42	0.66141 <0.0001 42	0.60582 <0.0001 42	1.00000 42	0.45825 0.0023 42
K Potassium	-0.25717 0.1001 42	0.19066 0.2265 42	0.32559 0.0354 42	0.25019 0.1100 42	0.41369 0.0065 42	0.31369 0.0431 42	0.40566 0.0077 42	0.48967 0.0010 42	0.54752 0.0002 42	0.45825 0.0023 42	1.00000 42

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=GODDARD

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 0.2459 52	0.16893 0.2459 49	-0.31427 0.0279 49	-0.60092 <0.0001 46	-0.13890 0.3573 46	-0.49431 0.0005 46	-0.36749 0.0120 46	-0.47682 0.0008 46	-0.42563 0.0032 46	-0.39762 0.0062 46	-0.20971 0.1619 46
HYD Hydrogen	0.16893 0.2459 49	1.00000	0.40573 0.0038 49	0.00023 0.9988 46	0.31335 0.0340 46	0.02636 0.8619 46	-0.19325 0.1982 46	-0.29048 0.0502 46	-0.40486 0.0053 46	-0.10628 0.4821 46	-0.17072 0.2566 46
COND Conductivity	-0.31427 0.0279 49	0.40573 0.0038 49	1.00000	0.38448 0.0083 46	0.76114 <0.0001 46	0.63775 <0.0001 46	0.44688 0.0018 46	0.32272 0.0287 46	0.19277 0.1993 46	0.27643 0.0629 46	0.16695 0.2675 46
CL Chloride	-0.60092 <0.0001 46	0.00023 0.9988 46	0.38448 0.0083 46	1.00000	0.20547 0.1707 46	0.46197 0.0012 46	0.26160 0.0791 46	0.38946 0.0075 46	0.32275 0.0287 46	0.70128 <0.0001 46	0.19250 0.2000 46
SO4 Sulfate	-0.13890 0.3573 46	0.31335 0.0340 46	0.76114 <0.0001 46	0.20547 0.1707 46	1.00000	0.66772 <0.0001 46	0.69074 <0.0001 46	0.53940 0.0001 46	0.40181 0.0056 46	0.14217 0.3459 46	0.27316 0.0662 46
NO3 Nitrate	-0.49431 0.0005 46	0.02636 0.8619 46	0.63775 <0.0001 46	0.46197 0.0012 46	0.66772 <0.0001 46	1.00000	0.78273 <0.0001 46	0.81611 <0.0001 46	0.62244 <0.0001 46	0.35206 0.0164 46	0.40621 0.0051 46
NH4 Ammonium	-0.36749 0.0120 46	-0.19325 0.1982 46	0.44688 0.0018 46	0.26160 0.0791 46	0.69074 <0.0001 46	0.78273 <0.0001 46	1.00000	0.82434 <0.0001 46	0.68285 <0.0001 46	0.27136 0.0681 46	0.50259 0.0004 46
CA Calcium	-0.47682 0.0008 46	-0.29048 0.0502 46	0.32272 0.0287 46	0.38946 0.0075 46	0.53940 0.0001 46	0.81611 <0.0001 46	0.82434 <0.0001 46	1.00000	0.89702 <0.0001 46	0.45474 0.0015 46	0.62058 <0.0001 46
MG Magnesium	-0.42563 0.0032 46	-0.40486 0.0053 46	0.19277 0.1993 46	0.32275 0.0287 46	0.40181 0.0056 46	0.62244 <0.0001 46	0.68285 <0.0001 46	0.89702 <0.0001 46	1.00000	0.46415 0.0012 46	0.67331 <0.0001 46
NA Sodium	-0.39762 0.0062 46	-0.10628 0.4821 46	0.27643 0.0629 46	0.70128 <0.0001 46	0.14217 0.3459 46	0.35206 0.0164 46	0.27136 0.0681 46	0.45474 0.0015 46	0.46415 0.0012 46	1.00000	0.39180 0.0071 46
K Potassium	-0.20971 0.1619 46	-0.17072 0.2566 46	0.16695 0.2675 46	0.19250 0.2000 46	0.27316 0.0662 46	0.40621 0.0051 46	0.50259 0.0004 46	0.62058 <0.0001 46	0.67331 <0.0001 46	0.39180 0.0071 46	1.00000

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=HILLSCRK

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 51	-0.06180 0.6832 46	-0.18348 0.2170 47	-0.41380 0.0047 45	-0.11750 0.4421 45	-0.46574 0.0013 45	-0.28883 0.0543 45	-0.38813 0.0084 45	-0.39019 0.0081 45	-0.25825 0.0867 45	-0.18857 0.2148 45
HYD Hydrogen	-0.06180 0.6832 46	1.00000 46	0.74016 <0.0001 46	0.11110 0.4675 45	0.74762 <0.0001 45	0.57881 <0.0001 45	0.45736 0.0016 45	0.26038 0.0841 45	0.18690 0.2190 45	0.14339 0.3474 45	0.12936 0.3970 45
COND Conductivity	-0.18348 0.2170 47	0.74016 <0.0001 46	1.00000 47	0.42225 0.0039 45	0.80335 <0.0001 45	0.76115 <0.0001 45	0.68021 <0.0001 45	0.48763 0.0007 45	0.42876 0.0033 45	0.43105 0.0031 45	0.39347 0.0075 45
CL Chloride	-0.41380 0.0047 45	0.11110 0.4675 45	0.42225 0.0039 45	1.00000 45	0.28511 0.0576 45	0.53404 0.0002 45	0.53238 0.0002 45	0.61398 <0.0001 45	0.64881 <0.0001 45	0.81191 <0.0001 45	0.66024 <0.0001 45
SO4 Sulfate	-0.11750 0.4421 45	0.74762 <0.0001 45	0.80335 <0.0001 45	0.28511 0.0576 45	1.00000 45	0.62846 <0.0001 45	0.73547 <0.0001 45	0.54088 0.0001 45	0.57525 <0.0001 45	0.36455 0.0138 45	0.49816 0.0005 45
NO3 Nitrate	-0.46574 0.0013 45	0.57881 <0.0001 45	0.76115 <0.0001 45	0.53404 0.0002 45	0.62846 <0.0001 45	1.00000 46	0.85069 <0.0001 45	0.73865 <0.0001 45	0.67485 <0.0001 45	0.58421 <0.0001 45	0.52448 0.0002 45
NH4 Ammonium	-0.28883 0.0543 45	0.45736 0.0016 45	0.68021 <0.0001 45	0.53238 0.0002 45	0.73547 <0.0001 45	0.85069 <0.0001 45	1.00000 45	0.72445 <0.0001 45	0.69043 <0.0001 45	0.57969 <0.0001 45	0.63636 <0.0001 45
CA Calcium	-0.38813 0.0084 45	0.26038 0.0841 45	0.48763 0.0007 45	0.61398 <0.0001 45	0.54088 0.0001 45	0.73865 <0.0001 45	0.72445 <0.0001 45	1.00000 45	0.86391 <0.0001 45	0.66036 <0.0001 45	0.66123 <0.0001 45
MG Magnesium	-0.39019 0.0081 45	0.18690 0.2190 45	0.42876 0.0033 45	0.64881 <0.0001 45	0.57525 <0.0001 45	0.67485 <0.0001 45	0.69043 <0.0001 45	0.86391 <0.0001 45	1.00000 45	0.74607 <0.0001 45	0.75560 <0.0001 45
NA Sodium	-0.25825 0.0867 45	0.14339 0.3474 45	0.43105 0.0031 45	0.81191 <0.0001 45	0.36455 0.0138 45	0.58421 <0.0001 45	0.57969 <0.0001 45	0.66036 <0.0001 45	0.74607 <0.0001 45	1.00000 45	0.73278 <0.0001 45
K Potassium	-0.18857 0.2148 45	0.12936 0.3970 45	0.39347 0.0075 45	0.66024 <0.0001 45	0.49816 0.0005 45	0.52448 0.0002 45	0.63636 <0.0001 45	0.66123 <0.0001 45	0.75560 <0.0001 45	0.73278 <0.0001 45	1.00000 45

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=LAURHILL

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 52	-0.02374 0.8686 51	-0.35849 0.0098 51	-0.56716 <0.0001 49	-0.31601 0.0270 49	-0.50059 0.0002 49	-0.26955 0.0611 49	-0.54692 <0.0001 49	-0.48078 0.0005 49	-0.32342 0.0234 49	-0.17348 0.2332 49
HYD Hydrogen	-0.02374 0.8686 51	1.00000 51	0.66804 <0.0001 51	0.09673 0.5085 49	0.57707 <0.0001 49	0.11316 0.4388 49	0.25742 0.0742 49	-0.11319 0.4387 49	-0.22574 0.1189 49	-0.14421 0.3229 49	-0.02808 0.8481 49
COND Conductivity	-0.35849 0.0098 51	0.66804 <0.0001 51	1.00000 51	0.51587 0.0001 49	0.86504 <0.0001 49	0.59640 <0.0001 49	0.61237 <0.0001 49	0.42252 0.0025 49	0.37603 0.0078 49	0.17299 0.2346 49	0.28025 0.0511 49
CL Chloride	-0.56716 <0.0001 49	0.09673 0.5085 49	0.51587 0.0001 49	1.00000 49	0.42255 0.0025 49	0.74016 <0.0001 49	0.48931 0.0004 49	0.70394 <0.0001 49	0.71982 <0.0001 49	0.70633 <0.0001 49	0.39697 0.0047 49
SO4 Sulfate	-0.31601 0.0270 49	0.57707 <0.0001 49	0.86504 <0.0001 49	0.42255 0.0025 49	1.00000 49	0.50842 0.0002 49	0.71211 <0.0001 49	0.49506 0.0003 49	0.44877 0.0012 49	0.20417 0.1594 49	0.40409 0.0040 49
NO3 Nitrate	-0.50059 0.0002 49	0.11316 0.4388 49	0.59640 <0.0001 49	0.74016 <0.0001 49	0.50842 0.0002 49	1.00000 49	0.78120 <0.0001 49	0.83743 <0.0001 49	0.76379 <0.0001 49	0.54734 <0.0001 49	0.33199 0.0198 49
NH4 Ammonium	-0.26955 0.0611 49	0.25742 0.0742 49	0.61237 <0.0001 49	0.48931 0.0004 49	0.71211 <0.0001 49	0.78120 <0.0001 49	1.00000 49	0.68936 <0.0001 49	0.61126 <0.0001 49	0.37068 0.0087 49	0.32176 0.0242 49
CA Calcium	-0.54692 <0.0001 49	-0.11319 0.4387 49	0.42252 0.0025 49	0.70394 <0.0001 49	0.49506 0.0003 49	0.83743 <0.0001 49	0.68936 <0.0001 49	1.00000 49	0.93864 <0.0001 49	0.64551 <0.0001 49	0.53061 <0.0001 49
MG Magnesium	-0.48078 0.0005 49	-0.22574 0.1189 49	0.37603 0.0078 49	0.71982 <0.0001 49	0.44877 0.0012 49	0.76379 <0.0001 49	0.61126 <0.0001 49	0.93864 <0.0001 49	1.00000 49	0.71236 <0.0001 49	0.55748 <0.0001 49
NA Sodium	-0.32342 0.0234 49	-0.14421 0.3229 49	0.17299 0.2346 49	0.70633 <0.0001 49	0.20417 0.1594 49	0.54734 <0.0001 49	0.37068 0.0087 49	0.64551 <0.0001 49	0.71236 <0.0001 49	1.00000 49	0.60452 <0.0001 49
K Potassium	-0.17348 0.2332 49	-0.02808 0.8481 49	0.28025 0.0511 49	0.39697 0.0047 49	0.40409 0.0040 49	0.33199 0.0198 49	0.32176 0.0242 49	0.53061 <0.0001 49	0.55748 <0.0001 49	0.60452 <0.0001 49	1.00000 49

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=LITTBUFF

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 0.0116 49	-0.37325 0.0116 45	-0.38155 0.0097 45	-0.43239 0.0038 43	-0.43855 0.0033 43	-0.52663 0.0003 43	-0.46322 0.0018 43	-0.51355 0.0004 43	-0.44190 0.0030 43	-0.37255 0.0139 43	-0.33413 0.0285 43
HYD Hydrogen	-0.37325 0.0116 45	1.00000 0.0116 45	0.87130 <0.0001 45	0.42984 0.0040 43	0.80415 <0.0001 43	0.79530 <0.0001 43	0.65796 <0.0001 43	0.49045 0.0008 43	0.35541 0.0193 43	0.29340 0.0562 43	0.24879 0.1077 43
COND Conductivity	-0.38155 0.0097 45	0.87130 <0.0001 45	1.00000 0.0097 45	0.56755 <0.0001 43	0.81022 <0.0001 43	0.80784 <0.0001 43	0.69992 <0.0001 43	0.63296 <0.0001 43	0.49492 0.0007 43	0.44611 0.0027 43	0.38572 0.0106 43
CL Chloride	-0.43239 0.0038 43	0.42984 0.0040 43	0.56755 <0.0001 43	1.00000 0.0038 43	0.51120 0.0005 43	0.44220 0.0030 43	0.46373 0.0017 43	0.51424 0.0004 43	0.69740 <0.0001 43	0.83624 <0.0001 43	0.46621 0.0016 43
SO4 Sulfate	-0.43855 0.0033 43	0.80415 <0.0001 43	0.81022 <0.0001 43	0.51120 0.0005 43	1.00000 0.0033 43	0.66760 <0.0001 43	0.85581 <0.0001 43	0.68347 <0.0001 43	0.63406 <0.0001 43	0.41710 0.0054 43	0.46381 0.0017 43
NO3 Nitrate	-0.52663 0.0003 43	0.79530 <0.0001 43	0.80784 <0.0001 43	0.44220 0.0030 43	0.66760 <0.0001 43	1.00000 0.0003 46	0.78107 <0.0001 43	0.75723 <0.0001 43	0.52825 0.0003 43	0.26638 0.0842 43	0.28274 0.0662 43
NH4 Ammonium	-0.46322 0.0018 43	0.65796 <0.0001 43	0.69992 <0.0001 43	0.46373 0.0017 43	0.85581 <0.0001 43	0.78107 <0.0001 43	1.00000 <0.0001 43	0.77040 <0.0001 43	0.62316 <0.0001 43	0.32587 0.0330 43	0.37955 0.0121 43
CA Calcium	-0.51355 0.0004 43	0.49045 0.0008 43	0.63296 <0.0001 43	0.51424 0.0004 43	0.68347 <0.0001 43	0.75723 <0.0001 43	0.77040 <0.0001 43	1.00000 <0.0001 43	0.80382 <0.0001 43	0.38433 0.0109 43	0.54265 0.0002 43
MG Magnesium	-0.44190 0.0030 43	0.35541 0.0193 43	0.49492 0.0007 43	0.69740 <0.0001 43	0.63406 <0.0001 43	0.52825 0.0003 43	0.62316 <0.0001 43	0.80382 <0.0001 43	1.00000 0.0000 43	0.64863 <0.0001 43	0.54474 0.0002 43
NA Sodium	-0.37255 0.0139 43	0.29340 0.0562 43	0.44611 0.0027 43	0.83624 <0.0001 43	0.41710 0.0054 43	0.26638 0.0842 43	0.32587 0.0330 43	0.38433 0.0109 43	0.64863 <0.0001 43	1.00000 0.0000 43	0.52079 0.0003 43
K Potassium	-0.33413 0.0285 43	0.24879 0.1077 43	0.38572 0.0106 43	0.46621 0.0016 43	0.46381 0.0017 43	0.28274 0.0662 43	0.37955 0.0121 43	0.54265 0.0002 43	0.54474 0.0002 43	0.52079 0.0003 43	1.00000 0.0000 43

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=LITTPINE

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 0.0216 49	-0.33787 0.0216 46	-0.41441 0.0042 46	-0.45710 0.0016 45	-0.43595 0.0028 45	-0.59241 <0.0001 45	-0.45531 0.0017 45	-0.51668 0.0003 45	-0.50439 0.0004 45	-0.43095 0.0031 45	-0.11235 0.4624 45
HYD Hydrogen	-0.33787 0.0216 46	1.00000 0.0216 46	0.76053 <0.0001 46	0.41367 0.0047 45	0.60823 <0.0001 45	0.68811 <0.0001 45	0.39071 0.0080 45	0.40600 0.0057 45	0.27893 0.0635 45	0.26926 0.0737 45	0.02883 0.8509 45
COND Conductivity	-0.41441 0.0042 46	0.76053 <0.0001 46	1.00000 0.0042 46	0.56761 <0.0001 45	0.84271 <0.0001 45	0.78866 <0.0001 45	0.66803 <0.0001 45	0.61993 <0.0001 45	0.53998 0.0001 45	0.47142 0.0011 45	0.43321 0.0030 45
CL Chloride	-0.45710 0.0016 45	0.41367 0.0047 45	0.56761 <0.0001 45	1.00000 0.0016 45	0.55419 <0.0001 45	0.60236 <0.0001 45	0.50280 0.0004 45	0.59314 <0.0001 45	0.59640 <0.0001 45	0.84211 <0.0001 45	0.34716 0.0195 45
SO4 Sulfate	-0.43595 0.0028 45	0.60823 <0.0001 45	0.84271 <0.0001 45	0.55419 <0.0001 45	1.00000 0.0028 45	0.71602 <0.0001 45	0.87440 <0.0001 45	0.72891 <0.0001 45	0.69544 <0.0001 45	0.52226 0.0002 45	0.58551 <0.0001 45
NO3 Nitrate	-0.59241 <0.0001 45	0.68811 <0.0001 45	0.78866 <0.0001 45	0.60236 <0.0001 45	0.71602 <0.0001 45	1.00000 0.75622 48	0.75622 <0.0001 45	0.79630 <0.0001 45	0.69907 <0.0001 45	0.57063 <0.0001 45	0.34248 0.0213 45
NH4 Ammonium	-0.45531 0.0017 45	0.39071 0.0080 45	0.66803 <0.0001 45	0.50280 0.0004 45	0.87440 <0.0001 45	0.75622 <0.0001 45	1.00000 0.75622 45	0.82286 <0.0001 45	0.78106 <0.0001 45	0.49814 0.0005 45	0.67009 <0.0001 45
CA Calcium	-0.51668 0.0003 45	0.40600 0.0057 45	0.61993 <0.0001 45	0.59314 <0.0001 45	0.72891 <0.0001 45	0.79630 <0.0001 45	0.82286 <0.0001 45	1.00000 <0.0001 45	0.92430 <0.0001 45	0.63752 <0.0001 45	0.52011 0.0003 45
MG Magnesium	-0.50439 0.0004 45	0.27893 0.0635 45	0.53998 0.0001 45	0.59640 <0.0001 45	0.69544 <0.0001 45	0.69907 <0.0001 45	0.78106 <0.0001 45	0.92430 <0.0001 45	1.00000 0.74366 45	0.74366 <0.0001 45	0.58390 <0.0001 45
NA Sodium	-0.43095 0.0031 45	0.26926 0.0737 45	0.47142 0.0011 45	0.84211 <0.0001 45	0.52226 0.0002 45	0.57063 <0.0001 45	0.49814 0.0005 45	0.63752 <0.0001 45	0.74366 <0.0001 45	1.00000 0.0010 45	0.47454 0.0010 45
K Potassium	-0.11235 0.4624 45	0.02883 0.8509 45	0.43321 0.0030 45	0.34716 0.0195 45	0.58551 <0.0001 45	0.34248 0.0213 45	0.67009 <0.0001 45	0.52011 0.0003 45	0.58390 <0.0001 45	0.47454 0.0010 45	1.00000 0.0010 45

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=PRESQLSL

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 51	-0.03116 0.8335 48	-0.44190 0.0019 47	-0.52542 0.0002 46	-0.34360 0.0194 46	-0.50779 0.0003 46	-0.43737 0.0024 46	-0.38596 0.0081 46	-0.29797 0.0443 46	-0.35125 0.0167 46	-0.12428 0.4106 46
HYD Hydrogen	-0.03116 0.8335 48	1.00000 48	0.28167 0.0551 47	-0.09645 0.5237 46	-0.02372 0.8757 46	-0.03050 0.8405 46	-0.11275 0.4556 46	-0.46654 0.0011 46	-0.53528 0.0001 46	-0.17385 0.2479 46	-0.48414 0.0007 46
COND Conductivity	-0.44190 0.0019 47	0.28167 0.0551 47	1.00000 47	0.47375 0.0009 46	0.82034 <0.0001 46	0.64385 <0.0001 46	0.58833 <0.0001 46	0.46108 0.0013 46	0.31635 0.0322 46	0.23887 0.1099 46	0.08235 0.5864 46
CL Chloride	-0.52542 0.0002 46	-0.09645 0.5237 46	0.47375 0.0009 46	1.00000 46	0.44930 0.0017 46	0.68044 <0.0001 46	0.60908 <0.0001 46	0.52528 0.0002 46	0.48789 0.0006 46	0.67610 <0.0001 46	0.16889 0.2618 46
SO4 Sulfate	-0.34360 0.0194 46	-0.02372 0.8757 46	0.82034 <0.0001 46	0.44930 0.0017 46	1.00000 46	0.63381 <0.0001 46	0.77676 <0.0001 46	0.67680 <0.0001 46	0.55353 <0.0001 46	0.28462 0.0552 46	0.31143 0.0351 46
NO3 Nitrate	-0.50779 0.0003 46	-0.03050 0.8405 46	0.64385 <0.0001 46	0.68044 <0.0001 46	0.63381 <0.0001 46	1.00000 47	0.81991 <0.0001 46	0.72085 <0.0001 46	0.62592 <0.0001 46	0.54223 <0.0001 46	0.31391 0.0336 46
NH4 Ammonium	-0.43737 0.0024 46	-0.11275 0.4556 46	0.58833 <0.0001 46	0.60908 <0.0001 46	0.77676 <0.0001 46	0.81991 <0.0001 46	1.00000 46	0.74695 <0.0001 46	0.66027 <0.0001 46	0.53552 0.0001 46	0.40163 0.0057 46
CA Calcium	-0.38596 0.0081 46	-0.46654 0.0011 46	0.46108 0.0013 46	0.52528 0.0002 46	0.67680 <0.0001 46	0.72085 <0.0001 46	0.74695 <0.0001 46	1.00000 46	0.93994 <0.0001 46	0.59550 <0.0001 46	0.59249 <0.0001 46
MG Magnesium	-0.29797 0.0443 46	-0.53528 0.0001 46	0.31635 0.0322 46	0.48789 0.0006 46	0.55353 <0.0001 46	0.62592 <0.0001 46	0.66027 <0.0001 46	0.93994 <0.0001 46	1.00000 46	0.64577 <0.0001 46	0.70346 <0.0001 46
NA Sodium	-0.35125 0.0167 46	-0.17385 0.2479 46	0.23887 0.1099 46	0.67610 <0.0001 46	0.28462 0.0552 46	0.54223 <0.0001 46	0.53552 0.0001 46	0.59550 <0.0001 46	0.64577 <0.0001 46	1.00000 46	0.49087 0.0005 46
K Potassium	-0.12428 0.4106 46	-0.48414 0.0007 46	0.08235 0.5864 46	0.16889 0.2618 46	0.31143 0.0351 46	0.31391 0.0336 46	0.40163 0.0057 46	0.59249 <0.0001 46	0.70346 <0.0001 46	0.49087 0.0005 46	1.00000 46

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=SLOCUM

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 52	-0.41416 0.0088 39	-0.25450 0.1179 39	-0.57449 0.0002 37	-0.42263 0.0092 37	-0.46240 0.0040 37	-0.29988 0.0713 37	-0.48335 0.0024 37	-0.30066 0.0706 37	-0.43655 0.0069 37	-0.38822 0.0176 37
HYD Hydrogen	-0.41416 0.0088 39	1.00000 39	-0.13728 0.4046 39	0.46430 0.0038 37	0.84313 <0.0001 37	0.78359 <0.0001 37	0.61559 <0.0001 37	0.62290 <0.0001 37	0.47034 0.0033 37	0.42432 0.0089 37	0.38887 0.0174 37
COND Conductivity	-0.25450 0.1179 39	-0.13728 0.4046 39	1.00000 39	0.58523 0.0001 37	0.82308 <0.0001 37	0.85212 <0.0001 37	0.67678 <0.0001 37	0.74440 <0.0001 37	0.62490 <0.0001 37	0.55037 0.0004 37	0.54177 0.0005 37
CL Chloride	-0.57449 0.0002 37	0.46430 0.0038 37	0.58523 0.0001 37	1.00000 37	0.53394 0.0007 37	0.62430 <0.0001 37	0.54459 0.0005 37	0.66381 <0.0001 37	0.68316 <0.0001 37	0.72430 <0.0001 37	0.55741 0.0003 37
SO4 Sulfate	-0.42263 0.0092 37	0.84313 <0.0001 37	0.82308 <0.0001 37	0.53394 0.0007 37	1.00000 37	0.79810 <0.0001 37	0.89038 <0.0001 37	0.77045 <0.0001 37	0.71348 <0.0001 37	0.48942 0.0021 37	0.60558 <0.0001 37
NO3 Nitrate	-0.46240 0.0040 37	0.78359 <0.0001 37	0.85212 <0.0001 37	0.62430 <0.0001 37	0.79810 <0.0001 37	1.00000 37	0.83780 <0.0001 37	0.82404 <0.0001 37	0.75423 <0.0001 37	0.68267 <0.0001 37	0.72166 <0.0001 37
NH4 Ammonium	-0.29988 0.0713 37	0.61559 <0.0001 37	0.67678 <0.0001 37	0.54459 0.0005 37	0.89038 <0.0001 37	0.83780 <0.0001 37	1.00000 37	0.80063 <0.0001 37	0.81355 <0.0001 37	0.57516 0.0002 37	0.77693 <0.0001 37
CA Calcium	-0.48335 0.0024 37	0.62290 <0.0001 37	0.74440 <0.0001 37	0.66381 <0.0001 37	0.77045 <0.0001 37	0.82404 <0.0001 37	0.80063 <0.0001 37	1.00000 37	0.90580 <0.0001 37	0.73394 <0.0001 37	0.74074 <0.0001 37
MG Magnesium	-0.30066 0.0706 37	0.47034 0.0033 37	0.62490 <0.0001 37	0.68316 <0.0001 37	0.71348 <0.0001 37	0.75423 <0.0001 37	0.81355 <0.0001 37	0.90580 <0.0001 37	1.00000 37	0.80694 <0.0001 37	0.77584 <0.0001 37
NA Sodium	-0.43655 0.0069 37	0.42432 0.0089 37	0.55037 0.0004 37	0.72430 <0.0001 37	0.48942 0.0021 37	0.68267 <0.0001 37	0.57516 0.0002 37	0.73394 <0.0001 37	0.80694 <0.0001 37	1.00000 37	0.75710 <0.0001 37
K Potassium	-0.38822 0.0176 37	0.38887 0.0174 37	0.54177 0.0005 37	0.55741 0.0003 37	0.60558 <0.0001 37	0.72166 <0.0001 37	0.77693 <0.0001 37	0.74074 <0.0001 37	0.77584 <0.0001 37	0.75710 <0.0001 37	1.00000 37

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=VALLFORG

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 52	-0.22173 0.1432 45	-0.37904 0.0112 44	-0.19877 0.1958 44	-0.33294 0.0272 44	-0.50852 0.0004 44	-0.40147 0.0069 44	-0.42802 0.0038 44	-0.19680 0.2004 44	-0.17142 0.2659 44	-0.19855 0.1964 44
HYD Hydrogen	-0.22173 0.1432 45	1.00000 45	0.82147 <0.0001 44	0.15013 0.3307 44	0.75040 <0.0001 44	0.77116 <0.0001 44	0.68476 <0.0001 44	0.34417 0.0222 44	0.14249 0.3562 44	0.00384 0.9802 44	0.11670 0.4506 44
COND Conductivity	-0.37904 0.0112 44	0.82147 <0.0001 44	1.00000 44	0.32315 0.0324 44	0.77729 <0.0001 44	0.85227 <0.0001 44	0.73823 <0.0001 44	0.56578 <0.0001 44	0.34585 0.0215 44	0.19710 0.1997 44	0.28128 0.0644 44
CL Chloride	-0.19877 0.1958 44	0.15013 0.3307 44	0.32315 0.0324 44	1.00000 44	0.31927 0.0346 44	0.23064 0.1320 44	0.26293 0.0846 44	0.63981 <0.0001 44	0.74020 <0.0001 44	0.85874 <0.0001 44	0.34191 0.0231 44
SO4 Sulfate	-0.33294 0.0272 44	0.75040 <0.0001 44	0.77729 <0.0001 44	0.31927 0.0346 44	1.00000 44	0.73619 <0.0001 44	0.89385 <0.0001 44	0.70450 <0.0001 44	0.56925 <0.0001 44	0.25332 0.0971 44	0.41157 0.0055 44
NO3 Nitrate	-0.50852 0.0004 44	0.77116 <0.0001 44	0.85227 <0.0001 44	0.23064 0.1320 44	0.73619 <0.0001 44	1.00000 44	0.83277 <0.0001 44	0.61439 <0.0001 44	0.28974 0.0564 44	0.13058 0.3982 44	0.24057 0.1157 44
NH4 Ammonium	-0.40147 0.0069 44	0.68476 <0.0001 44	0.73823 <0.0001 44	0.26293 0.0846 44	0.89385 <0.0001 44	0.83277 <0.0001 44	1.00000 44	0.64019 <0.0001 44	0.44504 0.0025 44	0.14719 0.3404 44	0.28523 0.0606 44
CA Calcium	-0.42802 0.0038 44	0.34417 0.0222 44	0.56578 <0.0001 44	0.63981 <0.0001 44	0.70450 <0.0001 44	0.61439 <0.0001 44	0.64019 <0.0001 44	1.00000 44	0.83406 <0.0001 44	0.63655 <0.0001 44	0.55770 <0.0001 44
MG Magnesium	-0.19680 0.2004 44	0.14249 0.3562 44	0.34585 0.0215 44	0.74020 <0.0001 44	0.56925 <0.0001 44	0.28974 0.0564 44	0.44504 0.0025 44	0.83406 <0.0001 44	1.00000 44	0.79102 <0.0001 44	0.45448 0.0019 44
NA Sodium	-0.17142 0.2659 44	0.00384 0.9802 44	0.19710 0.1997 44	0.85874 <0.0001 44	0.25332 0.0971 44	0.13058 0.3982 44	0.14719 0.3404 44	0.63655 <0.0001 44	0.79102 <0.0001 44	1.00000 44	0.39076 0.0087 44
K Potassium	-0.19855 0.1964 44	0.11670 0.4506 44	0.28128 0.0644 44	0.34191 0.0231 44	0.41157 0.0055 44	0.24057 0.1157 44	0.28523 0.0606 44	0.55770 <0.0001 44	0.45448 0.0019 44	0.39076 0.0087 44	1.00000 44

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=ARENDSV (NADP/NTN)

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	LHYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 0.0031 39	-0.46721 0.0031 38	-0.46721 0.0031 38	-0.48304 0.0021 38	-0.23334 0.1586 38	-0.47716 0.0025 38	-0.57120 0.0002 38	-0.39408 0.0144 38	-0.55582 0.0003 38	-0.39080 0.0153 38	-0.11245 0.5015 38	-0.41523 0.0095 38
HYD Hydrogen	-0.46721 0.0031 38	1.00000 0.0031 38	1.00000 <0.0001 38	0.93228 <0.0001 38	0.38437 0.0172 38	0.87005 <0.0001 38	0.75511 <0.0001 38	0.61289 <0.0001 38	0.60571 <0.0001 38	0.46996 0.0029 38	0.16233 0.3302 38	0.48861 0.0019 38
LHYD Lab. pH	-0.46721 0.0031 38	1.00000 <0.0001 38	1.00000 0.0031 38	0.93228 <0.0001 38	0.38437 0.0172 38	0.87005 <0.0001 38	0.75511 <0.0001 38	0.61289 <0.0001 38	0.60571 <0.0001 38	0.46996 0.0029 38	0.16233 0.3302 38	0.48861 0.0019 38
COND Conductivity	-0.48304 0.0021 38	0.93228 <0.0001 38	0.93228 <0.0001 38	1.00000 0.0029 38	0.47077 0.0029 38	0.90721 <0.0001 38	0.76278 <0.0001 38	0.69236 <0.0001 38	0.70487 <0.0001 38	0.60168 <0.0001 38	0.24129 0.1445 38	0.61662 <0.0001 38
CL Chloride	-0.23334 0.1586 38	0.38437 0.0172 38	0.38437 0.0172 38	0.47077 0.0029 38	1.00000 0.0029 38	0.52887 0.0006 38	0.41471 0.0096 38	0.47061 0.0029 38	0.56783 0.0002 38	0.83167 <0.0001 38	0.91384 <0.0001 38	0.72140 <0.0001 38
SO4 Sulfate	-0.47716 0.0025 38	0.87005 <0.0001 38	0.87005 <0.0001 38	0.90721 <0.0001 38	0.52887 0.0006 38	1.00000 0.0006 38	0.79937 <0.0001 38	0.83740 <0.0001 38	0.83492 <0.0001 38	0.73900 <0.0001 38	0.35665 0.0280 38	0.74487 <0.0001 38
NO3 Nitrate	-0.57120 0.0002 38	0.75511 <0.0001 38	0.75511 <0.0001 38	0.76278 <0.0001 38	0.41471 0.0096 38	0.79937 <0.0001 38	1.00000 0.0096 51	0.84368 <0.0001 38	0.81517 <0.0001 38	0.64830 <0.0001 38	0.28222 0.0860 38	0.62547 <0.0001 38
NH4 Ammonium	-0.39408 0.0144 38	0.61289 <0.0001 38	0.61289 <0.0001 38	0.69236 <0.0001 38	0.47061 0.0029 38	0.83740 <0.0001 38	0.84368 <0.0001 38	1.00000 <0.0001 38	0.79929 <0.0001 38	0.71095 <0.0001 38	0.35602 0.0282 38	0.75234 <0.0001 38
CA Calcium	-0.55582 0.0003 38	0.60571 <0.0001 38	0.60571 <0.0001 38	0.70487 <0.0001 38	0.56783 0.0002 38	0.83492 <0.0001 38	0.81517 <0.0001 38	0.79929 <0.0001 38	1.00000 <0.0001 38	0.87014 <0.0001 38	0.47274 0.0027 38	0.84751 <0.0001 38
MG Magnesium	-0.39080 0.0153 38	0.46996 0.0029 38	0.46996 0.0029 38	0.60168 <0.0001 38	0.83167 <0.0001 38	0.73900 <0.0001 38	0.64830 <0.0001 38	0.71095 <0.0001 38	0.87014 <0.0001 38	1.00000 0.0001 38	0.77383 <0.0001 38	0.87077 <0.0001 38
NA Sodium	-0.11245 0.5015 38	0.16233 0.3302 38	0.16233 0.3302 38	0.24129 0.1445 38	0.91384 <0.0001 38	0.35665 0.0280 38	0.28222 0.0860 38	0.35602 0.0282 38	0.47274 0.0027 38	0.77383 <0.0001 38	1.00000 0.0001 38	0.62633 <0.0001 38
K Potassium	-0.41523 0.0095 38	0.48861 0.0019 38	0.48861 0.0019 38	0.61662 <0.0001 38	0.72140 <0.0001 38	0.74487 <0.0001 38	0.62547 <0.0001 38	0.75234 <0.0001 38	0.84751 <0.0001 38	0.87077 <0.0001 38	0.62633 <0.0001 38	1.00000 0.0001 38

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=LEADRIDG (NADP/NTN)

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	LHYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 0.0797 48	-0.25824 0.0797 47	-0.25824 0.0797 47	-0.36406 0.0119 47	-0.55165 <0.0001 47	-0.31463 0.0312 47	-0.61771 <0.0001 47	-0.49127 0.0005 47	-0.62575 <0.0001 47	-0.56968 <0.0001 47	-0.34823 0.0165 47	-0.44759 0.0016 47
HYD Hydrogen	-0.25824 0.0797 47	1.00000 0.0797 47	1.00000 <0.0001 47	0.89576 <0.0001 47	0.31911 0.0288 47	0.74241 <0.0001 47	0.55395 <0.0001 47	0.47264 0.0008 47	0.19963 0.1785 47	0.09536 0.5237 47	0.06769 0.6512 47	-0.01188 0.9368 47
LHYD Lab. pH	-0.25824 0.0797 47	1.00000 <0.0001 47	1.00000 0.0797 47	0.89576 <0.0001 47	0.31911 0.0288 47	0.74241 <0.0001 47	0.55395 <0.0001 47	0.47264 0.0008 47	0.19963 0.1785 47	0.09536 0.5237 47	0.06769 0.6512 47	-0.01188 0.9368 47
COND Conductivity	-0.36406 0.0119 47	0.89576 <0.0001 47	0.89576 <0.0001 47	1.00000 0.0006 47	0.48013 0.0006 47	0.80223 <0.0001 47	0.68357 <0.0001 47	0.54756 <0.0001 47	0.42513 0.0029 47	0.35003 0.0159 47	0.23370 0.1139 47	0.18247 0.2196 47
CL Chloride	-0.55165 <0.0001 47	0.31911 0.0288 47	0.31911 0.0288 47	0.48013 0.0006 47	1.00000 0.0006 47	0.31676 0.0301 47	0.68371 <0.0001 47	0.47640 0.0007 47	0.63968 <0.0001 47	0.60643 <0.0001 47	0.85407 <0.0001 47	0.39506 0.0060 47
SO4 Sulfate	-0.31463 0.0312 47	0.74241 <0.0001 47	0.74241 <0.0001 47	0.80223 <0.0001 47	0.31676 0.0301 47	1.00000 0.0301 47	0.58097 <0.0001 47	0.70235 <0.0001 47	0.51911 0.0002 47	0.49104 0.0005 47	0.20022 0.1772 47	0.41249 0.0040 47
NO3 Nitrate	-0.61771 <0.0001 47	0.55395 <0.0001 47	0.55395 <0.0001 47	0.68357 <0.0001 47	0.68371 <0.0001 47	0.58097 <0.0001 47	1.00000 0.0001 51	0.71687 <0.0001 47	0.77645 <0.0001 47	0.69726 <0.0001 47	0.47283 0.0008 47	0.44316 0.0018 47
NH4 Ammonium	-0.49127 0.0005 47	0.47264 0.0008 47	0.47264 0.0008 47	0.54756 <0.0001 47	0.47640 0.0007 47	0.70235 <0.0001 47	0.71687 <0.0001 47	1.00000 0.0001 47	0.56174 <0.0001 47	0.50675 0.0003 47	0.43335 0.0023 47	0.28091 0.0558 47
CA Calcium	-0.62575 <0.0001 47	0.19963 0.1785 47	0.19963 0.1785 47	0.42513 0.0029 47	0.63968 <0.0001 47	0.51911 0.0002 47	0.77645 <0.0001 47	0.56174 <0.0001 47	1.00000 0.0001 47	0.93711 <0.0001 47	0.52881 0.0001 47	0.73319 <0.0001 47
MG Magnesium	-0.56968 <0.0001 47	0.09536 0.5237 47	0.09536 0.5237 47	0.35003 0.0159 47	0.60643 <0.0001 47	0.49104 0.0005 47	0.69726 <0.0001 47	0.50675 0.0003 47	0.93711 <0.0001 47	1.00000 0.0001 47	0.56600 <0.0001 47	0.79981 <0.0001 47
NA Sodium	-0.34823 0.0165 47	0.06769 0.6512 47	0.06769 0.6512 47	0.23370 0.1139 47	0.85407 <0.0001 47	0.20022 0.1772 47	0.47283 0.0008 47	0.43335 0.0023 47	0.52881 0.0001 47	0.56600 <0.0001 47	1.00000 0.0001 47	0.30137 0.0395 47
K Potassium	-0.44759 0.0016 47	-0.01188 0.9368 47	-0.01188 0.9368 47	0.18247 0.2196 47	0.39506 0.0060 47	0.41249 0.0040 47	0.44316 0.0018 47	0.28091 0.0558 47	0.73319 <0.0001 47	0.79981 <0.0001 47	0.30137 0.0395 47	1.00000 0.0001 47

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=MILFORD (NADP/NTN)

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	LHYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 0.0217 47	-0.34929 0.0217 43	-0.34929 0.0217 43	-0.50293 0.0006 43	-0.02108 0.8933 43	-0.44679 0.0027 43	-0.56624 <0.0001 43	-0.22066 0.1551 43	-0.63750 <0.0001 43	-0.37158 0.0142 43	0.08388 0.5928 43	-0.39434 0.0089 43
HYD Hydrogen	-0.34929 0.0217 43	1.00000 0.0217 43	1.00000 <0.0001 43	0.77321 <0.0001 43	0.32039 0.0362 43	0.82466 <0.0001 43	0.80378 <0.0001 43	0.56825 <0.0001 43	0.51422 0.0004 43	0.26468 0.0863 43	0.14818 0.3430 43	-0.03731 0.8123 43
LHYD Lab. pH	-0.34929 0.0217 43	1.00000 <0.0001 43	1.00000 0.0217 43	0.77321 <0.0001 43	0.32039 0.0362 43	0.82466 <0.0001 43	0.80378 <0.0001 43	0.56825 <0.0001 43	0.51422 0.0004 43	0.26468 0.0863 43	0.14818 0.3430 43	-0.03731 0.8123 43
COND Conductivity	-0.50293 0.0006 43	0.77321 <0.0001 43	0.77321 <0.0001 43	1.00000 0.0006 43	0.32030 0.0363 43	0.83038 <0.0001 43	0.83536 <0.0001 43	0.60767 <0.0001 43	0.71185 <0.0001 43	0.47074 0.0014 43	0.10135 0.5178 43	0.33184 0.0297 43
CL Chloride	-0.02108 0.8933 43	0.32039 0.0362 43	0.32039 0.0362 43	0.32030 0.0363 43	1.00000 0.0363 43	0.24473 0.1137 43	0.35047 0.0212 43	0.09566 0.5417 43	0.39969 0.0079 43	0.71703 <0.0001 43	0.93000 <0.0001 43	0.17686 0.2566 43
SO4 Sulfate	-0.44679 0.0027 43	0.82466 <0.0001 43	0.82466 <0.0001 43	0.83038 <0.0001 43	0.24473 0.1137 43	1.00000 0.1137 43	0.76891 <0.0001 43	0.70075 <0.0001 43	0.70759 <0.0001 43	0.49655 0.0007 43	0.00545 0.9723 43	0.38832 0.0101 43
NO3 Nitrate	-0.56624 <0.0001 43	0.80378 <0.0001 43	0.80378 <0.0001 43	0.83536 <0.0001 43	0.35047 0.0212 43	0.76891 <0.0001 43	1.00000 0.0212 48	0.62513 <0.0001 43	0.78125 <0.0001 43	0.53555 0.0002 43	0.20423 0.1890 43	0.27606 0.0731 43
NH4 Ammonium	-0.22066 0.1551 43	0.56825 <0.0001 43	0.56825 <0.0001 43	0.60767 <0.0001 43	0.09566 0.5417 43	0.70075 <0.0001 43	0.62513 <0.0001 43	1.00000 <0.0001 43	0.44046 0.0031 43	0.27530 0.0740 43	-0.05868 0.7086 43	0.27729 0.0718 43
CA Calcium	-0.63750 <0.0001 43	0.51422 0.0004 43	0.51422 0.0004 43	0.71185 <0.0001 43	0.39969 0.0079 43	0.70759 <0.0001 43	0.78125 <0.0001 43	0.44046 0.0031 43	1.00000 0.0031 43	0.80722 <0.0001 43	0.23185 0.1347 43	0.63446 <0.0001 43
MG Magnesium	-0.37158 0.0142 43	0.26468 0.0863 43	0.26468 0.0863 43	0.47074 0.0014 43	0.71703 <0.0001 43	0.49655 0.0007 43	0.53555 0.0002 43	0.27530 0.0740 43	0.80722 <0.0001 43	1.00000 0.0001 43	0.57607 <0.0001 43	0.68510 <0.0001 43
NA Sodium	0.08388 0.5928 43	0.14818 0.3430 43	0.14818 0.3430 43	0.10135 0.5178 43	0.93000 <0.0001 43	0.00545 0.9723 43	0.20423 0.1890 43	-0.05868 0.7086 43	0.23185 0.1347 43	0.57607 <0.0001 43	1.00000 0.0001 43	0.01945 0.9015 43
K Potassium	-0.39434 0.0089 43	-0.03731 0.8123 43	-0.03731 0.8123 43	0.33184 0.0297 43	0.17686 0.2566 43	0.38832 0.0101 43	0.27606 0.0731 43	0.27729 0.0718 43	0.63446 <0.0001 43	0.68510 <0.0001 43	0.01945 0.9015 43	1.00000 0.0001 43

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=MILLERSV (NADP/NTN)

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	LHYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 40	-0.09217 0.6041 34	-0.09217 0.6041 34	-0.40668 0.0170 34	-0.09749 0.5833 34	-0.49577 0.0029 34	-0.65647 <0.0001 34	-0.63694 <0.0001 34	-0.50460 0.0023 34	-0.35090 0.0419 34	0.07267 0.6830 34	-0.44205 0.0089 34
HYD Hydrogen	-0.09217 0.6041 34	1.00000 34	1.00000 <0.0001 34	0.50170 0.0025 34	0.03339 0.8513 34	0.37719 0.0279 34	0.31318 0.0713 34	0.07827 0.6599 34	0.16580 0.3487 34	-0.01861 0.9168 34	-0.15823 0.3714 34	0.06979 0.6949 34
LHYD Lab. pH	-0.09217 0.6041 34	1.00000 <0.0001 34	1.00000 34	0.50170 0.0025 34	0.03339 0.8513 34	0.37719 0.0279 34	0.31318 0.0713 34	0.07827 0.6599 34	0.16580 0.3487 34	-0.01861 0.9168 34	-0.15823 0.3714 34	0.06979 0.6949 34
COND Conductivity	-0.40668 0.0170 34	0.50170 0.0025 34	0.50170 0.0025 34	1.00000 34	0.26044 0.1368 34	0.85017 <0.0001 34	0.78836 <0.0001 34	0.71301 <0.0001 34	0.72136 <0.0001 34	0.51700 0.0017 34	-0.09873 0.5785 34	0.58568 0.0003 34
CL Chloride	-0.09749 0.5833 34	0.03339 0.8513 34	0.03339 0.8513 34	0.26044 0.1368 34	1.00000 34	0.17708 0.3164 34	0.21231 0.2280 34	0.17296 0.3280 34	0.36847 0.0320 34	0.74255 <0.0001 34	0.88893 <0.0001 34	0.51229 0.0020 34
SO4 Sulfate	-0.49577 0.0029 34	0.37719 0.0279 34	0.37719 0.0279 34	0.85017 <0.0001 34	0.17708 0.3164 34	1.00000 34	0.83934 <0.0001 34	0.89078 <0.0001 34	0.76729 <0.0001 34	0.53518 0.0011 34	-0.17920 0.3106 34	0.65829 <0.0001 34
NO3 Nitrate	-0.65647 <0.0001 34	0.31318 0.0713 34	0.31318 0.0713 34	0.78836 <0.0001 34	0.21231 0.2280 34	0.83934 <0.0001 34	1.00000 46	0.89004 <0.0001 34	0.82652 <0.0001 34	0.57998 0.0003 34	-0.06694 0.7068 34	0.67075 <0.0001 34
NH4 Ammonium	-0.63694 <0.0001 34	0.07827 0.6599 34	0.07827 0.6599 34	0.71301 <0.0001 34	0.17296 0.3280 34	0.89078 <0.0001 34	0.89004 <0.0001 34	1.00000 34	0.75136 <0.0001 34	0.53826 0.0010 34	-0.12012 0.4986 34	0.67684 <0.0001 34
CA Calcium	-0.50460 0.0023 34	0.16580 0.3487 34	0.16580 0.3487 34	0.72136 <0.0001 34	0.36847 0.0320 34	0.76729 <0.0001 34	0.82652 <0.0001 34	0.75136 <0.0001 34	1.00000 34	0.84399 <0.0001 34	0.09902 0.5774 34	0.82925 <0.0001 34
MG Magnesium	-0.35090 0.0419 34	-0.01861 0.9168 34	-0.01861 0.9168 34	0.51700 0.0017 34	0.74255 <0.0001 34	0.53518 0.0011 34	0.57998 0.0003 34	0.53826 0.0010 34	0.84399 <0.0001 34	1.00000 34	0.53592 0.0011 34	0.83948 <0.0001 34
NA Sodium	0.07267 0.6830 34	-0.15823 0.3714 34	-0.15823 0.3714 34	-0.09873 0.5785 34	0.88893 <0.0001 34	-0.17920 0.3106 34	-0.06694 0.7068 34	-0.12012 0.4986 34	0.09902 0.5774 34	0.53592 0.0011 34	1.00000 34	0.29299 0.0926 34
K Potassium	-0.44205 0.0089 34	0.06979 0.6949 34	0.06979 0.6949 34	0.58568 0.0003 34	0.51229 0.0020 34	0.65829 <0.0001 34	0.67075 <0.0001 34	0.67684 <0.0001 34	0.82925 <0.0001 34	0.83948 <0.0001 34	0.29299 0.0926 34	1.00000 34

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=PSU (NADP/NTN)

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	LHYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 0.0511 49	-0.28621 0.0511 47	-0.28621 0.0511 47	-0.31296 0.0322 47	-0.46822 0.0009 47	-0.24216 0.1010 47	-0.56394 <0.0001 47	-0.10481 0.4832 47	-0.55122 <0.0001 47	-0.46440 0.0010 47	-0.27145 0.0649 47	0.02535 0.8657 47
HYD Hydrogen	-0.28621 0.0511 47	1.00000 0.0511 47	1.00000 <0.0001 47	0.78846 <0.0001 47	0.38354 0.0078 47	0.79467 <0.0001 47	0.65342 <0.0001 47	0.44155 0.0019 47	0.10719 0.4733 47	0.19473 0.1896 47	0.09614 0.5203 47	0.11122 0.4567 47
LHYD Lab. pH	-0.28621 0.0511 47	1.00000 <0.0001 47	1.00000 0.0511 47	0.78846 <0.0001 47	0.38354 0.0078 47	0.79467 <0.0001 47	0.65342 <0.0001 47	0.44155 0.0019 47	0.10719 0.4733 47	0.19473 0.1896 47	0.09614 0.5203 47	0.11122 0.4567 47
COND Conductivity	-0.31296 0.0322 47	0.78846 <0.0001 47	0.78846 <0.0001 47	1.00000 0.0004 47	0.49490 0.0004 47	0.79850 <0.0001 47	0.67982 <0.0001 47	0.54951 <0.0001 47	0.33204 0.0226 47	0.34620 0.0171 47	0.15980 0.2833 47	0.21574 0.1453 47
CL Chloride	-0.46822 0.0009 47	0.38354 0.0078 47	0.38354 0.0078 47	0.49490 0.0004 47	1.00000 0.0004 47	0.29351 0.0452 47	0.71026 <0.0001 47	0.47515 0.0007 47	0.58737 <0.0001 47	0.68439 <0.0001 47	0.85083 <0.0001 47	0.37534 0.0093 47
SO4 Sulfate	-0.24216 0.1010 47	0.79467 <0.0001 47	0.79467 <0.0001 47	0.79850 <0.0001 47	0.29351 0.0452 47	1.00000 0.0002 47	0.51192 0.0002 47	0.61125 <0.0001 47	0.32748 0.0246 47	0.38505 0.0075 47	0.07168 0.6321 47	0.28670 0.0507 47
NO3 Nitrate	-0.56394 <0.0001 47	0.65342 <0.0001 47	0.65342 <0.0001 47	0.67982 <0.0001 47	0.71026 <0.0001 47	0.51192 0.0002 47	1.00000 0.0002 50	0.64433 <0.0001 47	0.60770 <0.0001 47	0.58457 <0.0001 47	0.46387 0.0010 47	0.28162 0.0551 47
NH4 Ammonium	-0.10481 0.4832 47	0.44155 0.0019 47	0.44155 0.0019 47	0.54951 <0.0001 47	0.47515 0.0007 47	0.61125 <0.0001 47	0.64433 <0.0001 47	1.00000 0.0001 47	0.44631 0.0017 47	0.55662 <0.0001 47	0.36072 0.0127 47	0.69042 <0.0001 47
CA Calcium	-0.55122 <0.0001 47	0.10719 0.4733 47	0.10719 0.4733 47	0.33204 0.0226 47	0.58737 <0.0001 47	0.32748 0.0246 47	0.60770 <0.0001 47	0.44631 0.0017 47	1.00000 0.0001 47	0.85434 <0.0001 47	0.50509 0.0003 47	0.29119 0.0471 47
MG Magnesium	-0.46440 0.0010 47	0.19473 0.1896 47	0.19473 0.1896 47	0.34620 0.0171 47	0.68439 <0.0001 47	0.38505 0.0075 47	0.58457 <0.0001 47	0.55662 <0.0001 47	0.85434 <0.0001 47	1.00000 0.0001 47	0.60254 <0.0001 47	0.52976 0.0001 47
NA Sodium	-0.27145 0.0649 47	0.09614 0.5203 47	0.09614 0.5203 47	0.15980 0.2833 47	0.85083 <0.0001 47	0.07168 0.6321 47	0.46387 0.0010 47	0.36072 0.0127 47	0.50509 0.0003 47	0.60254 <0.0001 47	1.00000 0.0001 47	0.35146 0.0154 47
K Potassium	0.02535 0.8657 47	0.11122 0.4567 47	0.11122 0.4567 47	0.21574 0.1453 47	0.37534 0.0093 47	0.28670 0.0507 47	0.28162 0.0551 47	0.69042 <0.0001 47	0.29119 0.0471 47	0.52976 0.0001 47	0.35146 0.0154 47	1.00000 0.0001 47

Micro-equivalent Correlations for 2006 Precipitation Chemistry Data

SITE=YOWOCRK (NADP/NTN)

Pearson Correlation Coefficients / Prob > |r| under H0: Rho=0 / Number of Observations

	PRECIP	HYD	LHYD	COND	CL	SO4	NO3	NH4	CA	MG	NA	K
PRECIP Precipitation	1.00000 0.0016 46	-0.49497 0.0016 38	-0.49497 0.0016 38	-0.33444 0.0401 38	-0.36699 0.0234 38	-0.40969 0.0106 38	-0.59174 <0.0001 38	-0.34207 0.0355 38	-0.60223 <0.0001 38	-0.49550 0.0016 38	-0.36468 0.0244 38	-0.05197 0.7566 38
HYD Hydrogen	-0.49497 0.0016 38	1.00000 0.0016 38	1.00000 <0.0001 38	0.87434 <0.0001 38	0.65014 <0.0001 38	0.84495 <0.0001 38	0.72076 <0.0001 38	0.43395 0.0065 38	0.43263 0.0067 38	0.34700 0.0328 38	0.33926 0.0372 38	-0.03352 0.8416 38
LHYD Lab. pH	-0.49497 0.0016 38	1.00000 <0.0001 38	1.00000 0.0016 38	0.87434 <0.0001 38	0.65014 <0.0001 38	0.84495 <0.0001 38	0.72076 <0.0001 38	0.43395 0.0065 38	0.43263 0.0067 38	0.34700 0.0328 38	0.33926 0.0372 38	-0.03352 0.8416 38
COND Conductivity	-0.33444 0.0401 38	0.87434 <0.0001 38	0.87434 <0.0001 38	1.00000 0.0016 38	0.73653 <0.0001 38	0.89014 <0.0001 38	0.68383 <0.0001 38	0.59024 <0.0001 38	0.50595 0.0012 38	0.46862 0.0030 38	0.31979 0.0503 38	0.17138 0.3036 38
CL Chloride	-0.36699 0.0234 38	0.65014 <0.0001 38	0.65014 <0.0001 38	0.73653 <0.0001 38	1.00000 0.0016 38	0.67155 <0.0001 38	0.74715 <0.0001 38	0.60950 <0.0001 38	0.64585 <0.0001 38	0.65665 <0.0001 38	0.73159 <0.0001 38	0.22264 0.1791 38
SO4 Sulfate	-0.40969 0.0106 38	0.84495 <0.0001 38	0.84495 <0.0001 38	0.89014 <0.0001 38	0.67155 <0.0001 38	1.00000 0.0016 38	0.60331 <0.0001 38	0.66260 <0.0001 38	0.63606 <0.0001 38	0.60082 <0.0001 38	0.38283 0.0177 38	0.36982 0.0223 38
NO3 Nitrate	-0.59174 <0.0001 38	0.72076 <0.0001 38	0.72076 <0.0001 38	0.68383 <0.0001 38	0.74715 <0.0001 38	0.60331 <0.0001 38	1.00000 0.0016 44	0.72727 <0.0001 38	0.71563 <0.0001 38	0.61427 <0.0001 38	0.55576 0.0003 38	0.14834 0.3741 38
NH4 Ammonium	-0.34207 0.0355 38	0.43395 0.0065 38	0.43395 0.0065 38	0.59024 <0.0001 38	0.60950 <0.0001 38	0.66260 <0.0001 38	0.72727 <0.0001 38	1.00000 0.0016 38	0.75428 <0.0001 38	0.71324 <0.0001 38	0.38149 0.0181 38	0.62365 <0.0001 38
CA Calcium	-0.60223 <0.0001 38	0.43263 0.0067 38	0.43263 0.0067 38	0.50595 0.0012 38	0.64585 <0.0001 38	0.63606 <0.0001 38	0.71563 <0.0001 38	0.75428 <0.0001 38	1.00000 0.0016 38	0.95172 <0.0001 38	0.62110 <0.0001 38	0.53646 0.0005 38
MG Magnesium	-0.49550 0.0016 38	0.34700 0.0328 38	0.34700 0.0328 38	0.46862 0.0030 38	0.65665 <0.0001 38	0.60082 <0.0001 38	0.61427 <0.0001 38	0.71324 <0.0001 38	0.95172 <0.0001 38	1.00000 0.0016 38	0.64206 <0.0001 38	0.62928 <0.0001 38
NA Sodium	-0.36468 0.0244 38	0.33926 0.0372 38	0.33926 0.0372 38	0.31979 0.0503 38	0.73159 <0.0001 38	0.38283 0.0177 38	0.55576 0.0003 38	0.38149 0.0181 38	0.62110 <0.0001 38	0.64206 <0.0001 38	1.00000 0.0016 38	0.19292 0.2459 38
K Potassium	-0.05197 0.7566 38	-0.03352 0.8416 38	-0.03352 0.8416 38	0.17138 0.3036 38	0.22264 0.1791 38	0.36982 0.0223 38	0.14834 0.3741 38	0.62365 <0.0001 38	0.53646 0.0005 38	0.62928 <0.0001 38	0.19292 0.2459 38	1.00000 0.0016 38