



United States Department of Agriculture

Agricultural
Research
Service

Technical
Bulletin
Number 1931

September 2013

Long-Term Trends in Ecological Systems: A Basis for Understanding Responses to Global Change



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Long-Term Trends in Ecological Systems:

Appendix 14. Regression coefficients and R² values for calcium from various sources for which linear regression against time is significant (p < 0.05)

(Sites are grouped by ecosystem type. See Appendix 27 for length of record for each station at a site.)

Site code	Source	Slope	Y-intercept ¹	R ²
Alpine and arctic				
GLA	Wet deposition	0.064	1.6	0.2
LVW	Stream	0.021	1.7	0.4
NWT	Lake	0.117	2.2	0.5
	Wet deposition	0.110	2.1	0.2
Aridlands				
JRN	Precipitation (concentration)	0.069	0.6	0.3
RCE	Precipitation (concentration)	-0.004	0.2	0.3
	Wet deposition	-0.012	0.5	0.4
Coastal				
FCE	Precipitation (concentration)	-0.002	0.2	0.3
Eastern forests				
BEN	Precipitation (concentration)	0.001	0.03	0.2
	Wet deposition	0.020	0.4	0.3
CWT	Wet deposition	-0.014	1.3	0.2
FER	Precipitation (concentration)	-0.005	0.2	0.6
	Wet deposition	-0.060	2.9	0.6
HBR	Precipitation (concentration)	-0.002	0.1	0.4
	Stream	-0.019	1.4	0.9
	Wet deposition	-0.017	1.0	0.3
LUQ	Stream	0.051	3.8	0.3
MAR	Wet deposition	-0.015	1.7	0.2
NTL	Lake	0.098	8.8	0.8
	Wet deposition	-0.021	1.8	0.2
TAL	Precipitation (concentration)	0.002	0.1	0.3
	Wet deposition	0.030	0.9	0.4
Temperate grasslands and savannas				
KBS	Precipitation (concentration)	-0.003	0.3	0.3
	Wet deposition	-0.031	2.5	0.3
KNZ	Wet deposition	0.044	2.4	0.2
Urban				
BES	Precipitation (concentration)	-0.001	0.1	0.3

Appendix 14. Regression coefficients and R² values for calcium from various sources for which linear regression against time is significant (p < 0.05)—Continued

Site code	Source	Slope	Y-intercept ¹	R ²
Western forests				
AND	Precipitation (concentration)	-0.0004	0.03	0.2
BNZ	Precipitation (concentration)	0.001	0.02	0.5
CSP	Precipitation (concentration)	-0.001	0.04	0.2
FRA	Wet deposition	0.110	2.1	0.2

¹ Y-intercept was calculated for the first year of a dataset, which contains records of one variable over time for one site.