The effects of climate and soil properties on the magnitude of the visual soil quality indicators: a logistic regression approach

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Supplemental Materials

Tables and Figures

Cont.

Table 1. VSA indicators and references.

VSA indicator	Reference	Brief Description	Ranking
Soil structure and consistency	Shepherd (2000)	Based on a soil volume (0.2 m edge cube)/clods shattering from waist height and aggregate size distribution. Assessment (comparison) with reference photographs.	Indicator status: 0= poor; 1=moderate; 2=Good.
Soil porosity	Shepherd (2000)	Based on visual observation of a spade slice of soil or clod inspection for macropores. Assessment (comparison) with reference photographs.	Indicator status: 0= poor; 1=moderate; 2=Good.
Soil stability (slake test)	Tongway and Hindley (1995)	An adaptation of the procedure proposed by Tongway and Hindley. Three soil aggregates masses are immersed in water atop of a mesh with 1 cm openings. Time to collapse and percentage of slumping material is observed. Reference photographs.	Indicator status: 0= poor; 1=moderate; 2=Good.
Soil colour	Shepherd (2000)	Comparison of the colour of cultivated soil with colour of undisturbed soil (e.g. from nearby fence or other structure). Reference photographs.	Indicator status: 0= poor; 1=moderate; 2=Good.
Presence of cultivation pan	Shepherd (2000)	Based on visual observation of the face of the hole digged to extract the initial cube, comparison between the lower and upper part of the topsoil profile. Assessment (comparison) with reference photographs.	Indicator status: 0= poor; 1=moderate; 2=Good.
Earthworm count	Shepherd (2000)	Number of earthworms found in a 5 minutes search in the volume of soil used for *Soil structure and consistency*.	Indicator status: 0= poor (count<4); 1=moderate (4<count<8); 2=Good (count>8).
Surface ponding (under cropping)	Shepherd (2000)	Based on the time ponded water took to infiltrate after a heavy rainfall or wet period in winter.	Indicator status: 0= poor (ponding for more than 3 days); 1=moderate (ponding up to 3 days); 2=Good (no evidence of ponding after 1 day).
Susceptibility to wind and water erosion	Shepherd (2000)	Observed signs of erosion: rills, sedimentation in water streams and drains, differences in topsoil depths between	Indicator status:

	crests and bottom of slopes, size of dust plumes during cultivation, etc.	0= poor; 1=moderate; 2=Good. For further details refer to the citation.

Credit: in Teixeira, F., Basch, G., Alaoui, A., Lemann, T., Wesselink, M., Sukkel, W., … Fleskens, L. (2021). Manuring effects on visual soil quality indicators and soil organic matter content in different pedoclimatic zones in Europe and China. Soil and Tillage Research, 212, 105033. doi:10.1016/j.still.2021.105033

Table 2a. Pearson correlations between all explanatory variables and the number of pairs in the **acid group**. The correlation coefficients in red are statistically significant (α<0.05).

Acid group

Number of Pairs

Pearson correlation coefficients	LOC	SOM	pH	Sand	Silt	Clay	PR	Tmy	Pmy	PETmy	AI	NPP	GCI
LOC		72	125	111	111	111	91	125	125	125	125	125	125
SOM	**0.43**		78	78	78	78	58	78	78	78	78	78	78
pH	-0.03	**0.24**		117	117	117	97	131	131	131	131	131	131
Sand	0.09	0.05	-0.03		117	117	97	117	117	117	117	117	117
Silt	**-0.27**	-0.20	0.14	**-0.82**		117	97	117	117	117	117	117	117
Clay	**0.27**	0.22	-0.17	**-0.45**	-0.14		97	117	117	117	117	117	117
PR	-0.14	**-0.27**	0.16	-0.07	0.18	-0.15		97	97	97	97	97	97
Tmy	-0.16	**0.31**	-0.12	**-0.49**	0.16	**0.59**	0.02		131	131	131	131	131
Pmy	-0.10	0.21	0.10	**-0.46**	**0.33**	**0.28**	**0.38**	**0.60**		131	131	131	131
PETmy	-0.10	**0.23**	-0.15	**-0.34**	-0.08	**0.71**	-0.13	**0.79**	**0.27**		131	131	131
AI	-0.09	**0.23**	**0.28**	**-0.25**	**0.38**	-0.16	**0.43**	0.09	**0.81**	**-0.32**		131	131
NPP	-0.01	0.21	-0.11	**-0.49**	**0.22**	**0.50**	**0.20**	**0.83**	**0.89**	**0.53**	**0.49**		131
GCI	**0.28**	-0.03	**-0.37**	**-0.36**	-0.01	**0.64**	**-0.22**	0.13	0.13	**0.33**	-0.12	**0.19**	

Table 2b. Pearson correlations between all explanatory variables and the number of pairs in the **alkaline group**. The correlation coefficients in red are statistically significant (α<0.05).

Alkaline group

Number of Pairs

Pearson correlation coefficients	LOC	SOM	pH	Sand	Silt	Clay	PR	Tmy	Pmy	PETmy	AI	NPP	GCI
LOC		95	122	110	110	110	81	122	122	122	122	122	122
SOM	-0.11		95	95	95	95	66	95	95	95	95	95	95
pH	**-0.19**	**-0.22**		110	110	110	81	122	122	122	122	122	122
Sand	**0.20**	-0.13	**-0.37**		110	110	81	110	110	110	110	110	110
Silt	-0.12	-0.19	**0.34**	**-0.75**		110	81	110	110	110	110	110	110
Clay	-0.13	**0.41**	0.11	**-0.52**	-0.18		81	110	110	110	110	110	110
PR	**-0.26**	**0.42**	0.06	0.01	**-0.33**	**0.45**		81	81	81	81	81	81
Tmy	**-0.34**	**0.35**	**0.40**	**-0.44**	**0.35**	**0.20**	-0.20		122	122	122	122	122
Pmy	0.08	0.07	**-0.32**	-0.05	0.18	-0.16	-0.10	-0.01		122	122	122	122
PETmy	**-0.32**	**0.58**	0.14	**-0.29**	0.01	**0.41**	0.07	**0.81**	-0.23		122	122	122
AI	**0.26**	**-0.30**	**-0.31**	0.09	0.19	**-0.38**	-0.13	**-0.38**	**0.85**	**-0.65**		122	122
NPP	0.10	0.10	**-0.35**	-0.03	0.10	-0.09	-0.14	0.01	**0.96**	-0.19	**0.75**		122
GCI	**0.25**	**-0.24**	0.07	0.00	-0.01	0.01	-0.03	**-0.45**	0.02	**-0.43**	0.19	0.02	

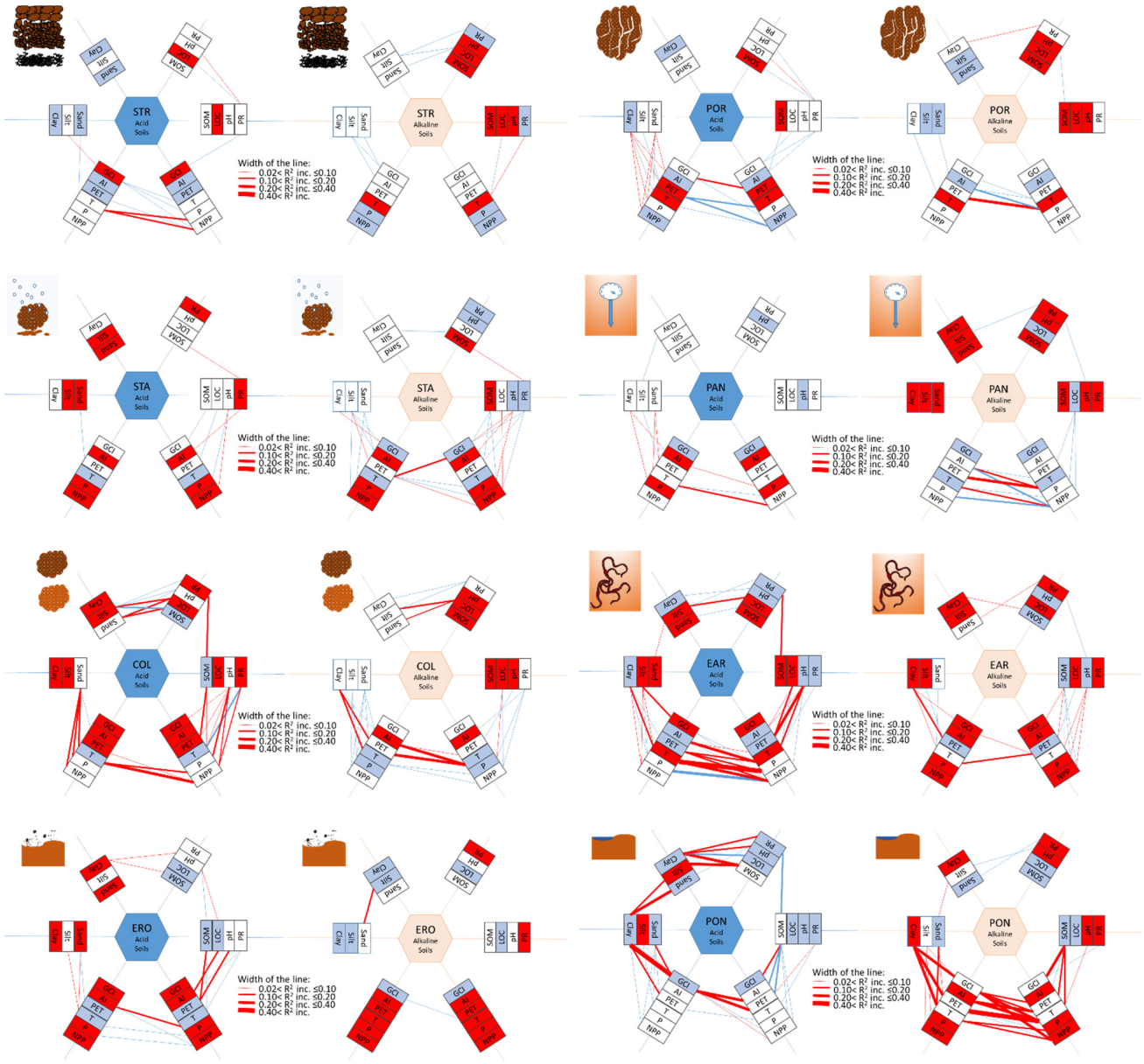

Figure 1. Single-variable models (cells): with the coefficient of the explanatory variables with p-values≤0.05 (red) and p-values≤0.20 (blue). Interactions between the variables (lines): with the coefficient of the explanatory variables with p-values≤0.05 (red) and p-values≤0.20 (blue). The width of the lines denotes the increase of the R_L^2 when compared to the sum of the R_L^2 of the main effects (main effects models). The hexagons have the name of the visual indicator within, and the colour corresponds to blue=acid soils and pink=alkaline. Str: Soil structure; Por: Soil porosity; Sta: Soil stability (Slake Test); Pan: Presence of a tillage pan; Col: Soil colour; Ear: Earthworm count; Ero: Susceptibility to wind and water erosion; Pon: Surface ponding.

Table 3. The number of interaction models and their distribution according to the increase in the R_L^2, visual indicators and soil reaction.

	Δ R-squared	STR	POR	STA	PAN	COL	EAR	ERO	PON	Total
Acid soils	0.03≤Int<0.10	7	15	9	6	11	19	13	14	94
	0.10≤Int<0.20	1	3	0	1	12	9	4	10	40
	0.20≤Int	1	0	0	0	1	5	0	6	13
Alkaline soils	0.03≤Int<0.10	8	6	22	7	19	17	1	12	92
	0.10≤Int<0.20	0	1	1	4	3	2	1	7	19
	0.20≤Int	0	1	0	1	2	0	0	9	13

R_L^2 increase of the interaction model in comparison to the R_L^2 value of the main effects model; Str: Soil structure; Por: Soil porosity; Sta: Soil stability (Slake Test); Pan: Presence of a tillage pan; Col: Soil colour; Ear: Earthworm count; Ero: Susceptibility to wind and water erosion; Pon: Surface ponding.

Table 4. Logistic regression models of the effect of climate variables and indices on the scores of the visual soil quality indicators for **acid soils**. Models with **one predictor**. %CP percentage of correct predictions.

VISUAL IND.	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	1 % CP	2 % CP	Unique Rows	Rows Used	R-squared
STR	Intercept	-0.65416	0.32748	-1.998	0.046	0.51988	81	35	49	131	0.08
	GCI	0.01944	0.00965	2.015	0.044	1.01963					
	Intercept	0.62658	0.44333	1.413	0.158	1.87120	43	65	34	131	0.04
	AI	-0.51904	0.37184	-1.396	0.163	0.59509					
	Intercept	-1.30885	0.70307	-1.862	0.063	0.27013	81	46	33	131	0.08
	PETmy	0.00176	0.00094	1.868	0.062	1.00176					
	Intercept	-0.10634	0.41601	-0.256	0.798	0.89912	78	39	37	131	0
	Tmy	0.01051	0.04104	0.256	0.798	1.01056					
	Intercept	0.08841	0.45717	0.193	0.847	1.09243	39	54	38	131	0
	Pmy	-0.00010	0.00052	-0.193	0.847	0.99990					
	Intercept	-0.32239	0.74979	-0.430	0.667	0.72442	61	46	38	131	0
	NPP_lim	0.00027	0.00062	0.431	0.667	1.00027					
POR	Intercept	-0.10545	0.30917	-0.341	0.733	0.89992	75	27	45	131	0
	GCI	0.00317	0.0093	0.341	0.733	1.00318					
	Intercept	-0.56962	0.43222	-1.318	0.188	0.56574	67	46	34	131	0.03
	AI	0.46788	0.35646	1.313	0.189	1.59660					
	Intercept	1.94247	0.73251	2.652	0.008	6.97598	38	76	32	131	0.15
	PETmy	-0.00264	0.001	-2.634	0.008	0.99737					
	Intercept	0.87036	0.42261	2.059	0.039	2.38776	36	78	37	131	0.08
	Tmy	-0.08626	0.04194	-2.057	0.040	0.91736					
	Intercept	0.23972	0.45112	0.531	0.595	1.27089	47	63	37	131	0.01
	Pmy	-0.00027	0.00052	-0.532	0.595	0.99973					
	Intercept	1.08855	0.75101	1.449	0.147	2.96996	47	63	37	131	0.04
	NPP_lim	-0.00091	0.00063	-1.449	0.147	0.99909					
STA	Intercept	0.19211	0.3292	0.584	0.560	1.21180	28	75	47	130	0.01
	GCI	-0.00588	0.01018	-0.577	0.564	0.99414					
	Intercept	-1.73197	0.49682	-3.486	0.000	0.17694	71	59	33	130	0.27

VISUAL IND.	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	1 % CP	2 % CP	Unique Rows	Rows Used	R-squared
	AI	1.37731	0.38733	3.556	0.000	3.96424					
	Intercept	0.76745	0.74425	1.031	0.302	2.15426	34	77	31	130	0.02
	PETmy	-0.00105	0.00103	-1.022	0.307	0.99895					
	Intercept	-0.56806	0.4447	-1.277	0.201	0.56663	73	32	36	130	0.03
	Tmy	0.05572	0.04296	1.297	0.195	1.05730					
	Intercept	-1.62524	0.521	-3.119	0.002	0.19686	69	61	37	130	0.2
	Pmy	0.00181	0.00056	3.220	0.001	1.00181					
	Intercept	-1.92289	0.8243	-2.333	0.020	0.14618	69	61	37	130	0.11
	NPP_lim	0.00159	0.00067	2.364	0.018	1.00159					
PAN	Intercept	0.50062	0.32154	1.557	0.119	1.64974	38	87	43	131	0.03
	GCI	-0.01530	0.01	-1.530	0.126	0.98482					
	Intercept	-1.16965	0.45509	-2.570	0.010	0.31048	62	42	32	131	0.1
	AI	0.95078	0.36881	2.578	0.010	2.58773					
	Intercept	0.48896	0.6919	0.707	0.480	1.63062	39	82	29	131	0.01
	PETmy	-0.00066	0.00094	-0.704	0.481	0.99934					
	Intercept	-0.01655	0.41442	-0.040	0.968	0.98358	63	18	35	131	0
	Tmy	0.00164	0.041	0.040	0.968	1.00164					
	Intercept	-0.94369	0.46946	-2.010	0.044	0.38919	61	45	35	131	0.06
	Pmy	0.00107	0.00053	2.028	0.043	1.00107					
	Intercept	-0.59173	0.75009	-0.789	0.430	0.55337	61	45	35	131	0.01
	NPP_lim	0.00049	0.00062	0.791	0.429	1.00049					
COL	Intercept	1.29798	0.37262	3.483	0.001	3.66190	41	88	41	131	0.14
	GCI	-0.04065	0.01218	-3.338	0.001	0.96017					
	Intercept	-1.46789	0.47131	-3.115	0.002	0.23041	65	45	31	131	0.12
	AI	1.20549	0.39068	3.086	0.002	3.33840					
	Intercept	3.08527	0.82962	3.719	0.000	21.87347	55	80	26	131	0.16
	PETmy	-0.00425	0.00117	-3.633	0.000	0.99576					
	Intercept	0.78308	0.42018	1.864	0.062	2.18821	44	88	30	131	0.03
	Tmy	-0.07817	0.0423	-1.848	0.065	0.92481					
	Intercept	-0.25942	0.45299	-0.573	0.567	0.77150	56	40	32	131	0
	Pmy	0.00030	0.00052	0.574	0.566	1.00030					
	Intercept	0.90354	0.75077	1.203	0.229	2.46833	44	60	32	131	0.02

VISUAL IND.	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	1 % CP	2 % CP	Unique Rows	Rows Used	R-squared
	NPP_lim	-0.00076	0.00063	-1.200	0.230	0.99925					
EAR	Intercept	2.06412	0.4817	4.285	0.000	7.87836	78	32	38	131	0.23
	GCI	-0.06683	0.01664	-4.015	0.000	0.93536					
	Intercept	0.72479	0.43966	1.649	0.099	2.06430	65	44	25	131	0.02
	AI	-0.59845	0.36654	-1.633	0.103	0.54967					
	Intercept	-1.12066	0.69387	-1.615	0.106	0.32606	32	70	23	131	0.02
	PETmy	0.00151	0.00094	1.615	0.106	1.00151					
	Intercept	-1.26751	0.43995	-2.881	0.004	0.28153	42	82	27	131	0.07
	Tmy	0.12506	0.0433	2.888	0.004	1.13322					
	Intercept	0.52663	0.45449	1.159	0.247	1.69321	55	39	28	131	0.01
	Pmy	-0.00061	0.00052	-1.154	0.249	0.99939					
	Intercept	0.04697	0.74047	0.063	0.949	1.04809	55	39	28	131	0
	NPP_lim	-0.00004	0.00062	-0.063	0.949	0.99996					
ERO	Intercept	-1.47152	0.46618	-3.157	0.002	0.22958	90	54	40	131	0.1
	GCI	0.05088	0.01799	2.828	0.005	1.05219					
	Intercept	-1.70645	0.64301	-2.654	0.008	0.18151	79	45	31	131	0.08
	AI	1.51966	0.6158	2.468	0.014	4.57066					
	Intercept	-1.46042	0.90568	-1.613	0.107	0.23214	79	50	28	131	0.03
	PETmy	0.00203	0.00129	1.570	0.116	1.00203					
	Intercept	-1.00003	0.50632	-1.975	0.048	0.36787	83	54	33	131	0.04
	Tmy	0.10450	0.05577	1.874	0.061	1.11016					
	Intercept	-2.67975	0.7203	-3.720	0.000	0.06858	90	51	32	131	0.17
	Pmy	0.00347	0.00104	3.338	0.001	1.00348					
	Intercept	-3.81665	1.12604	-3.389	0.001	0.02200	79	54	32	131	0.13
	NPP_lim	0.00338	0.00105	3.216	0.001	1.00338					
PON	Intercept	-1.02275	0.5968	-1.714	0.087	0.35961	48	81	35	112	0.03
	GCI	0.04020	0.02465	1.631	0.103	1.04102					
	Intercept	-0.76215	0.60982	-1.250	0.211	0.46666	62	34	26	112	0.02
	AI	0.63949	0.53393	1.198	0.231	1.89552					
	Intercept	0.77835	0.94821	0.821	0.412	2.17787	38	67	24	112	0.01
	PETmy	-0.00110	0.00132	-0.832	0.405	0.99890					
	Intercept	0.61547	0.66021	0.932	0.351	1.85053	43	58	27	112	0.01

VISUAL IND.	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	1 % CP	2 % CP	Unique Rows	Rows Used	R-squared
	Tmy	-0.06362	0.06652	-0.956	0.339	0.93836					
	Intercept	-0.67490	0.66586	-1.014	0.311	0.50921	71	40	28	112	0.01
	Pmy	0.00083	0.00085	0.984	0.325	1.00084					
	Intercept	-0.26463	1.30191	-0.203	0.839	0.76749	43	40	28	112	0
	NPP_lim	0.00023	0.00114	0.203	0.839	1.00023					

Str: Soil structure; Por: Soil porosity; Sta: Soil stability (Slake Test); Pan: Presence of a tillage pan; Col: Soil colour; Ear: Earthworm count; Ero: Susceptibility to wind and water erosion; Pon: Surface ponding. β_i: coefficient (ln(odds ratio); SE β_i: standard error of the coefficient; % CP: percentage of correct prediction of each category (1 or 2); R-squared: pseudo-R-squared.

Table 5. Logistic regression models of the effect of climate variables and indices on the scores of the visual soil quality indicators for **alkaline soils**. Models with **one predictor**. %CP percentage of correct predictions.

VISUAL IND.	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	1 % CP	2 % CP	Unique Rows	Rows Used	R-squared
STR	Intercept	-0.46828	0.38504	-1.216	0.224	0.62608	57	39	53	122	0.03
	GCI	0.01644	0.01339	1.228	0.220	1.01657					
	Intercept	0.25356	0.30324	0.836	0.403	1.28861	46	61	33	122	0.02
	AI	-0.36423	0.44175	-0.825	0.410	0.69473					
	Intercept	0.21941	0.61025	0.360	0.719	1.24535	45	59	23	122	0
	PETmy	-0.00022	0.00061	-0.359	0.720	0.99978					
	Intercept	1.26447	0.52993	2.386	0.017	3.54121	62	54	28	122	0.14
	Tmy	-0.09433	0.04003	-2.356	0.018	0.90998					
	Intercept	0.80190	0.43344	1.850	0.064	2.22977	43	63	33	122	0.08
	Pmy	-0.00131	0.00073	-1.806	0.071	0.99869					
	Intercept	1.06618	0.58283	1.829	0.067	2.90426	43	63	31	122	0.08
	NPP_lim	-0.00112	0.00062	-1.802	0.072	0.99888					
POR	Intercept	-0.17498	0.38168	-0.458	0.647	0.83947	60	45	51	122	0
	GCI	0.00618	0.0134	0.461	0.645	1.00620					
	Intercept	-0.48248	0.31301	-1.541	0.123	0.61725	59	48	34	122	0.05
	AI	0.67023	0.42743	1.568	0.117	1.95468					
	Intercept	0.70606	0.6187	1.141	0.254	2.02600	53	59	25	122	0.04
	PETmy	-0.00071	0.00063	-1.130	0.258	0.99929					
	Intercept	1.12030	0.52905	2.118	0.034	3.06576	63	57	31	122	0.11
	Tmy	-0.08362	0.04006	-2.087	0.037	0.91978					
	Intercept	-0.29864	0.41962	-0.712	0.477	0.74183	63	36	35	122	0.01
	Pmy	0.00047	0.00066	0.717	0.473	1.00047					
	Intercept	-0.19259	0.57552	-0.335	0.738	0.82482	63	48	33	122	0
	NPP_lim	0.00020	0.00059	0.336	0.737	1.00020					
STA	Intercept	0.86801	0.43518	1.995	0.046	2.38217	55	70	46	122	0.05
	GCI	-0.03212	0.01675	-1.917	0.055	0.96839					
	Intercept	-0.72512	0.33484	-2.166	0.030	0.48427	63	58	32	122	0.08
	AI	0.99287	0.44582	2.227	0.026	2.69898					

VISUAL IND.	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	1 % CP	2 % CP	Unique Rows	Rows Used	R-squared
	Intercept	-0.80389	0.64582	-1.245	0.213	0.44758	65	60	23	122	0.03
	PETmy	0.00079	0.00062	1.260	0.208	1.00079					
	Intercept	-1.09263	0.61354	-1.781	0.075	0.33533	54	75	28	122	0.05
	Tmy	0.07828	0.04288	1.825	0.068	1.08142					
	Intercept	-1.57542	0.48675	-3.237	0.001	0.20692	71	53	33	122	0.18
	Pmy	0.00243	0.00073	3.335	0.001	1.00243					
	Intercept	-2.37806	0.68497	-3.472	0.001	0.09273	71	50	31	122	0.21
	NPP_lim	0.00237	0.00066	3.584	0.000	1.00237					
PAN	Intercept	0.71339	0.41103	1.736	0.083	2.04090	49	62	46	122	0.03
	GCI	-0.02603	0.01541	-1.689	0.091	0.97431					
	Intercept	-0.17589	0.3012	-0.584	0.559	0.83871	62	53	31	122	0
	AI	0.24718	0.41995	0.589	0.556	1.28041					
	Intercept	0.13495	0.61301	0.220	0.826	1.14448	43	56	23	122	0
	PETmy	-0.00013	0.00061	-0.220	0.826	0.99987					
	Intercept	0.72727	0.52684	1.380	0.167	2.06943	60	51	27	122	0.03
	Tmy	-0.05392	0.03944	-1.367	0.172	0.94751					
	Intercept	0.03347	0.416	0.080	0.936	1.03403	32	56	32	122	0
	Pmy	-0.00005	0.00067	-0.080	0.936	0.99995					
	Intercept	0.02230	0.57111	0.039	0.969	1.02255	32	44	30	122	0
	NPP_lim	-0.00002	0.00059	-0.039	0.969	0.99998					
COL	Intercept	0.34524	0.41735	0.827	0.408	1.41233	47	66	46	122	0.01
	GCI	-0.01249	0.01538	-0.812	0.417	0.98759					
	Intercept	-0.75268	0.34776	-2.164	0.030	0.47110	61	54	33	122	0.07
	AI	1.01733	0.45169	2.252	0.024	2.76580					
	Intercept	0.08159	0.65378	0.125	0.901	1.08501	44	57	23	122	0
	PETmy	-0.00008	0.00065	-0.125	0.901	0.99992					
	Intercept	0.93579	0.54568	1.715	0.086	2.54923	60	54	28	122	0.04
	Tmy	-0.07030	0.04194	-1.676	0.094	0.93211					
	Intercept	-0.85866	0.46091	-1.863	0.062	0.42373	66	43	34	122	0.05
	Pmy	0.00133	0.00069	1.920	0.055	1.00133					
	Intercept	-0.76447	0.62517	-1.223	0.221	0.46558	66	43	32	122	0.02
	NPP_lim	0.00078	0.00062	1.243	0.214	1.00078					

VISUAL IND.	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	1 % CP	2 % CP	Unique Rows	Rows Used	R-squared
EAR	Intercept	0.97499	0.41098	2.372	0.018	2.65115	54	37	44	122	0.06
	GCI	-0.03475	0.01477	-2.353	0.019	0.96585					
	Intercept	1.07104	0.34611	3.094	0.002	2.91841	69	58	31	122	0.16
	AI	-1.53618	0.50278	-3.055	0.002	0.21520					
	Intercept	-0.96563	0.60362	-1.600	0.110	0.38074	48	61	22	122	0.05
	PETmy	0.00096	0.0006	1.594	0.111	1.00096					
	Intercept	-0.46765	0.52045	-0.899	0.369	0.62647	54	42	26	122	0.01
	Tmy	0.03434	0.03825	0.898	0.369	1.03493					
	Intercept	1.19627	0.43844	2.728	0.006	3.30775	66	40	32	122	0.11
	Pmy	-0.00192	0.00071	-2.715	0.007	0.99808					
	Intercept	1.50763	0.58901	2.560	0.010	4.51600	66	49	30	122	0.1
	NPP_lim	-0.00155	0.00061	-2.565	0.010	0.99845					
ERO	Intercept	-0.88102	0.44232	-1.992	0.046	0.41436	66	52	41	122	0.04
	GCI	0.03273	0.01715	1.909	0.056	1.03327					
	Intercept	-1.55239	0.39623	-3.918	0.000	0.21174	79	54	30	122	0.31
	AI	2.51704	0.71308	3.530	0.000	12.39187					
	Intercept	1.75069	0.69542	2.517	0.012	5.75859	50	60	21	122	0.13
	PETmy	-0.00169	0.00065	-2.587	0.010	0.99831					
	Intercept	1.41476	0.65316	2.166	0.030	4.11548	66	49	25	122	0.1
	Tmy	-0.10043	0.04482	-2.241	0.025	0.90445					
	Intercept	-1.74081	0.52517	-3.315	0.001	0.17538	79	50	30	122	0.24
	Pmy	0.00301	0.00097	3.091	0.002	1.00302					
	Intercept	-2.09862	0.66015	-3.179	0.001	0.12263	74	55	28	122	0.2
	NPP_lim	0.00227	0.00074	3.047	0.002	1.00227					
PON	Intercept	0.39773	0.52856	0.752	0.452	1.48844	55	52	39	117	0
	GCI	-0.01497	0.01963	-0.762	0.446	0.98514					
	Intercept	-1.21076	0.38491	-3.146	0.002	0.29797	85	56	25	117	0.12
	AI	1.92680	0.67634	2.849	0.004	6.86751					
	Intercept	-0.20986	0.6608	-0.318	0.751	0.81070	64	48	17	117	0
	PETmy	0.00021	0.00066	0.316	0.752	1.00021					
	Intercept	-0.48224	0.60301	-0.800	0.424	0.61740	55	62	20	117	0.01
	Tmy	0.03513	0.04442	0.791	0.429	1.03575					

VISUAL IND.	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	1 % CP	2 % CP	Unique Rows	Rows Used	R-squared
	Intercept	-1.83007	0.56096	-3.262	0.001	0.16040	88	54	24	117	0.12
	Pmy	0.00320	0.00106	3.022	0.003	1.00320					
	Intercept	-2.26275	0.70155	-3.225	0.001	0.10406	85	60	23	117	0.11
	NPP_lim	0.00247	0.0008	3.070	0.002	1.00247					

Table 6. Logistic regression models of the effect of climate variables interactions on the scores of the visual soil quality indicators for **acid soils**. Models with two explanatory variables and an interaction term (product of the two variables). %CP percentage of correct predictions.

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	GCI x AI	Intercept	-0.88495	1.2848	-0.689	0.49096	0.41274	58	46	56	131	0.11
		GCI	0.043	0.03697	1.163	0.24484	1.04393					
		AI	0.33903	1.15476	0.294	0.76907	1.40359					
		GCI*AI	-0.02441	0.03452	-0.707	0.47951	0.97589					
	GCI x PET	Intercept	-3.89806	1.96532	-1.983	0.04732	0.02028	73	50	53	131	0.14
		GCI	0.10106	0.06495	1.556	0.11972	1.10635					
		PETmy	0.00392	0.0022	1.779	0.07524	1.00393					
		GCI*PETmy	-0.00009	0.00007	-1.351	0.17669	0.99991					
	GCI x T	Intercept	-2.16753	1.05012	-2.064	0.03901	0.11446	75	50	55	131	0.13
		GCI	0.05797	0.02639	2.197	0.02804	1.05968					
		Tmy	0.13514	0.09005	1.501	0.13342	1.1447					
		GCI*Tmy	-0.00324	0.00194	-1.67	0.09489	0.99677					
	GCI x P	Intercept	-1.7154	1.19228	-1.439	0.15022	0.17989	78	35	54	131	0.1
		GCI	0.05354	0.03062	1.748	0.08038	1.055					
		Pmy	0.00115	0.00129	0.894	0.37125	1.00115					
		GCI*Pmy	-0.00004	0.00003	-1.182	0.23733	0.99996					
	GCI x NPP	Intercept	-3.89514	2.02419	-1.924	0.05432	0.02034	60	61	54	131	0.13
		GCI	0.09261	0.04484	2.065	0.03891	1.09703					
		NPP_lim	0.00259	0.0016	1.614	0.10649	1.00259					
		GCI*NPP_lim	-0.00006	0.00003	-1.72	0.08538	0.99994					
	AI x PET	Intercept	0.29614	2.07542	0.143	0.88654	1.34465	56	48	38	131	0.09
		AI	-1.27489	1.77741	-0.717	0.4732	0.27946					
		PETmy	0.00005	0.00282	0.017	0.98654	1.00005					
		AI*PETmy	0.00139	0.00257	0.54	0.58895	1.00139					
	AI x T	Intercept	2.86896	2.06104	1.392	0.16392	17.61872	44	54	39	131	0.07
		AI	-2.74621	1.86295	-1.474	0.14045	0.06417					
		Tmy	-0.23821	0.21621	-1.102	0.27057	0.78804					
		AI*Tmy	0.22991	0.19062	1.206	0.22778	1.25848					
	AI x P	Intercept	-0.05393	1.72895	-0.031	0.97511	0.9475	56	54	39	131	0.09
		AI	-0.90097	1.7701	-0.509	0.61076	0.40618					
		Pmy	0.00175	0.00172	1.019	0.30825	1.00175					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI*Pmy	-0.00032	0.00137	-0.235	0.81445	0.99968					
	AI x NPP	Intercept	-0.40063	3.10317	-0.129	0.89727	0.66989	40	69	39	131	0.07
		AI	-0.55558	2.98468	-0.186	0.85233	0.57374					
		NPP_lim	0.00112	0.00254	0.442	0.65829	1.00112					
		AI*NPP_lim	-0.00018	0.00229	-0.08	0.93632	0.99982					
	PET x T	Intercept	-0.11739	2.42563	-0.048	0.9614	0.88924	71	59	37	131	0.16
		PETmy	0.00217	0.00353	0.615	0.53885	1.00217					
		Tmy	-0.30195	0.22137	-1.364	0.17257	0.73937					
		PETmy*Tmy	0.00019	0.00026	0.739	0.46007	1.00019					
	PET x P	Intercept	1.3605	2.08558	0.652	0.51418	3.89814	53	59	39	131	0.11
		PETmy	-0.00138	0.00282	-0.49	0.62415	0.99862					
		Pmy	-0.00307	0.0022	-1.391	0.16417	0.99694					
		PETmy*Pmy	0	0	1.251	0.21102	1					
	PET x NPP	Intercept	6.26242	3.67839	1.702	0.08866	524.4866	60	72	39	131	0.16
		PETmy	-0.00623	0.00427	-1.458	0.14483	0.99379					
		NPP_lim	-0.00668	0.00318	-2.102	0.03556	0.99334					
		PETmy*NPP_lim	0.00001	0	2.013	0.04415	1.00001					
	T x P	Intercept	3.89239	1.50789	2.581	0.00984	49.02793	66	57	39	131	0.16
		Tmy	-0.40159	0.16758	-2.396	0.01655	0.66925					
		Pmy	-0.00472	0.00177	-2.665	0.00771	0.99529					
		Tmy*Pmy	0.00044	0.00016	2.701	0.00691	1.00044					
	T x NPP	Intercept	7.14539	2.56762	2.783	0.00539	1268.245	66	57	39	131	0.2
		Tmy	-0.65446	0.22274	-2.938	0.0033	0.51972					
		NPP_lim	-0.0062	0.00249	-2.494	0.01263	0.99382					
		Tmy*NPP_lim	0.00052	0.00017	3.108	0.00189	1.00052					
	P x NPP	Intercept	2.872	2.9964	0.958	0.33782	17.67231	65	48	38	131	0.07
		Pmy	-0.00552	0.00332	-1.663	0.09629	0.99449					
		NPP_lim	-0.00154	0.00291	-0.53	0.59618	0.99846					
		Pmy*NPP_lim	0	0	1.311	0.19	1					
POR	GCI x AI	Intercept	-4.12079	1.40844	-2.926	0.00344	0.01623	78	45	52	131	0.12
		GCI	0.10899	0.0422	2.582	0.00981	1.11515					
		AI	3.7311	1.26456	2.951	0.00317	41.72518					
		GCI*AI	-0.10236	0.03888	-2.633	0.00846	0.9027					
	GCI x PET	Intercept	1.03226	1.93608	0.533	0.59392	2.8074	71	75	49	131	0.11
		GCI	0.04465	0.06234	0.716	0.47388	1.04566					
		PETmy	-0.0023	0.00231	-0.993	0.32091	0.99771					
		GCI*PETmy	-0.00003	0.00007	-0.48	0.6315	0.99997					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	GCI x T	Intercept	0.30544	0.98409	0.31	0.75627	1.35722	36	75	51	131	0.06
		GCI	0.01622	0.02392	0.678	0.49782	1.01635					
		Tmy	-0.05379	0.08737	-0.616	0.53812	0.94763					
		GCI*Tmy	-0.00086	0.00184	-0.468	0.64001	0.99914					
	GCI x P	Intercept	-1.90559	1.18038	-1.614	0.10644	0.14873	63	48	50	131	0.06
		GCI	0.05838	0.03083	1.894	0.05824	1.06012					
		Pmy	0.00199	0.00128	1.548	0.1217	1.00199					
		GCI*Pmy	-0.00006	0.00003	-1.913	0.05569	0.99994					
	GCI x NPP	Intercept	-0.94188	1.92517	-0.489	0.62467	0.38989	48	54	50	131	0.05
		GCI	0.05033	0.04264	1.18	0.23781	1.05162					
		NPP_lim	0.00055	0.00154	0.357	0.72093	1.00055					
		GCI*NPP_lim	-0.00003	0.00003	-1.079	0.28058	0.99997					
	AI x PET	Intercept	-0.95928	2.06647	-0.464	0.6425	0.38317	44	58	38	131	0.17
		AI	2.62036	1.81566	1.443	0.14896	13.74067					
		PETmy	0.00128	0.00284	0.451	0.65209	1.00128					
		AI*PETmy	-0.00366	0.00267	-1.372	0.16996	0.99634					
	AI x T	Intercept	0.88282	2.11479	0.417	0.67635	2.4177	50	66	39	131	0.12
		AI	-0.02376	1.90754	-0.012	0.99006	0.97652					
		Tmy	-0.1587	0.22346	-0.71	0.47758	0.85325					
		AI*Tmy	0.0597	0.19669	0.304	0.76151	1.06151					
	AI x P	Intercept	0.00591	1.74056	0.003	0.99729	1.00593	45	58	39	131	0.16
		AI	1.77652	1.77227	1.002	0.31615	5.90925					
		Pmy	-0.00257	0.00178	-1.446	0.14826	0.99743					
		AI*Pmy	0.00005	0.00137	0.039	0.96851	1.00005					
	AI x NPP	Intercept	0.23829	3.10362	0.077	0.9388	1.26907	45	58	39	131	0.14
		AI	1.69482	3.0042	0.564	0.57265	5.44569					
		NPP_lim	-0.00122	0.00254	-0.481	0.63048	0.99878					
		AI*NPP_lim	-0.00055	0.0023	-0.24	0.81024	0.99945					
	PET x T	Intercept	-3.80645	2.46041	-1.547	0.12184	0.02223	45	78	37	131	0.25
		PETmy	0.00509	0.00359	1.42	0.15552	1.00511					
		Tmy	0.52806	0.22477	2.349	0.0188	1.69565					
		PETmy*Tmy	-0.00066	0.00027	-2.43	0.01508	0.99934					
	PET x P	Intercept	-2.05401	2.10667	-0.975	0.32956	0.12822	34	91	39	131	0.2
		PETmy	0.00279	0.0029	0.961	0.33674	1.00279					
		Pmy	0.00434	0.00225	1.929	0.05368	1.00435					
		PETmy*Pmy	-0.00001	0	-1.936	0.05286	0.99999					
	PET x NPP	Intercept	-6.44623	3.62233	-1.78	0.07514	0.00159	55	67	39	131	0.23

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy	0.00734	0.00431	1.705	0.08826	1.00737					
		NPP_lim	0.00705	0.00311	2.268	0.02334	1.00707					
		PETmy*NPP_lim	-0.00001	0	-2.345	0.01902	0.99999					
	T x P	Intercept	-2.00263	1.48177	-1.352	0.17653	0.13498	39	84	39	131	0.15
		Tmy	0.17487	0.16091	1.087	0.27714	1.19109					
		Pmy	0.00365	0.00178	2.046	0.04073	1.00366					
		Tmy*Pmy	-0.00031	0.00017	-1.853	0.06393	0.99969					
	T x NPP	Intercept	-4.60301	2.49826	-1.842	0.0654	0.01002	42	76	39	131	0.17
		Tmy	0.31446	0.21157	1.486	0.1372	1.36951					
		NPP_lim	0.0051	0.0024	2.128	0.03332	1.00512					
		Tmy*NPP_lim	-0.00036	0.00017	-2.151	0.03147	0.99964					
	P x NPP	Intercept	-3.69909	3.10183	-1.193	0.23305	0.02475	38	85	37	131	0.15
		Pmy	0.0082	0.00368	2.23	0.02578	1.00823					
		NPP_lim	0.00193	0.00294	0.659	0.51013	1.00194					
		Pmy*NPP_lim	-0.00001	0	-1.831	0.06703	0.99999					
STA	GCI x AI	Intercept	1.60885	2.30129	0.699	0.48448	4.99706	78	52	53	130	0.26
		GCI	-0.11138	0.07871	-1.415	0.15704	0.8946					
		AI	-1.5688	1.95745	-0.801	0.42287	0.20829					
		GCI*AI	0.09789	0.06605	1.482	0.13833	1.10285					
	GCI x PET	Intercept	2.52763	1.96592	1.286	0.19854	12.52379	51	68	50	130	0.03
		GCI	-0.06501	0.06562	-0.991	0.32182	0.93706					
		PETmy	-0.00287	0.00229	-1.252	0.21059	0.99713					
		GCI*PETmy	0.00007	0.00007	0.965	0.33465	1.00007					
	GCI x T	Intercept	1.89554	1.42504	1.33	0.18346	6.65616	66	43	52	130	0.1
		GCI	-0.07267	0.04412	-1.647	0.0995	0.92991					
		Tmy	-0.12145	0.10846	-1.12	0.26281	0.88563					
		GCI*Tmy	0.00483	0.00285	1.693	0.09042	1.00484					
	GCI x P	Intercept	-0.67488	1.40056	-0.482	0.6299	0.50922	66	57	51	130	0.19
		GCI	-0.03125	0.03927	-0.796	0.42618	0.96923					
		Pmy	0.00122	0.00143	0.853	0.39392	1.00122					
		GCI*Pmy	0.00002	0.00004	0.531	0.59569	1.00002					
	GCI x NPP	Intercept	-0.46672	2.25217	-0.207	0.83583	0.62706	64	66	51	130	0.11
		GCI	-0.04404	0.05401	-0.815	0.41486	0.95692					
		NPP_lim	0.00078	0.00173	0.451	0.65214	1.00078					
		GCI*NPP_lim	0.00002	0.00004	0.618	0.53651	1.00002					
	AI x PET	Intercept	2.77052	4.1044	0.675	0.49967	15.9669	71	59	36	130	0.29
		AI	-2.61822	3.37011	-0.777	0.43722	0.07293					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy	-0.00681	0.0061	-1.116	0.26461	0.99322					
		AI*PETmy	0.00614	0.00515	1.191	0.23351	1.00616					
	AI x T	Intercept	-0.62125	2.58227	-0.241	0.80988	0.53727	80	52	38	130	0.29
		AI	-0.07296	2.27727	-0.032	0.97444	0.92964					
		Tmy	-0.12094	0.27318	-0.443	0.65797	0.88609					
		AI*Tmy	0.14933	0.23621	0.632	0.52728	1.16105					
	AI x P	Intercept	-3.02405	2.24948	-1.344	0.17884	0.0486	71	59	38	130	0.27
		AI	2.29341	2.19264	1.046	0.29558	9.90863					
		Pmy	0.00145	0.00205	0.706	0.48	1.00145					
		AI*Pmy	-0.00092	0.00166	-0.553	0.58044	0.99908					
	AI x NPP	Intercept	-2.13452	3.92572	-0.544	0.58663	0.1183	73	57	38	130	0.27
		AI	1.11487	3.66735	0.304	0.76113	3.04918					
		NPP_lim	0.00048	0.00312	0.154	0.8774	1.00048					
		AI*NPP_lim	0.00009	0.00278	0.032	0.97419	1.00009					
	PET x T	Intercept	4.61163	3.1609	1.459	0.14458	100.6481	62	64	36	130	0.3
		PETmy	-0.01108	0.00525	-2.111	0.03478	0.98898					
		Tmy	0.11227	0.22961	0.489	0.62487	1.11882					
		PETmy*Tmy	0.00029	0.00031	0.912	0.36194	1.00029					
	PET x P	Intercept	1.29128	2.88337	0.448	0.65427	3.63745	71	59	38	130	0.29
		PETmy	-0.0046	0.00424	-1.084	0.27846	0.99542					
		Pmy	0.00066	0.00266	0.248	0.80433	1.00066					
		PETmy*Pmy	0	0	0.586	0.5581	1					
	PET x NPP	Intercept	-2.30093	4.54496	-0.506	0.61267	0.10017	73	59	38	130	0.29
		PETmy	-0.00271	0.00613	-0.443	0.65767	0.99729					
		NPP_lim	0.00441	0.00345	1.279	0.2009	1.00442					
		PETmy*NPP_lim	0	0	-0.282	0.77788	1					
	T x P	Intercept	-2.30684	1.56753	-1.472	0.14112	0.09958	73	50	38	130	0.22
		Tmy	0.05208	0.17029	0.306	0.75973	1.05346					
		Pmy	0.00302	0.00175	1.724	0.08472	1.00302					
		Tmy*Pmy	-0.00009	0.00016	-0.571	0.56772	0.99991					
	T x NPP	Intercept	-6.02629	2.62601	-2.295	0.02174	0.00241	66	57	38	130	0.18
		Tmy	0.18154	0.22776	0.797	0.42542	1.19906					
		NPP_lim	0.00604	0.00246	2.456	0.01403	1.00606					
		Tmy*NPP_lim	-0.00024	0.00017	-1.419	0.15577	0.99976					
	P x NPP	Intercept	-2.00666	3.36206	-0.597	0.55061	0.13444	73	50	37	130	0.22
		Pmy	0.00407	0.00355	1.146	0.25178	1.00407					
		NPP_lim	-0.00035	0.0032	-0.11	0.91223	0.99965					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Pmy*NPP_lim	0	0	-0.369	0.71249	1					
PAN	GCI x AI	Intercept	2.67202	2.16415	1.235	0.21695	14.46916	55	49	50	131	0.15
		GCI	-0.12544	0.07368	-1.702	0.08866	0.88211					
		AI	-2.12355	1.84407	-1.152	0.2495	0.11961					
		GCI*AI	0.10073	0.06191	1.627	0.10373	1.10598					
	GCI x PET	Intercept	1.05111	1.8618	0.565	0.57237	2.86081	38	85	47	131	0.03
		GCI	-0.02941	0.06352	-0.463	0.64341	0.97102					
		PETmy	-0.00067	0.00211	-0.316	0.75199	0.99933					
		GCI*PETmy	0.00002	0.00007	0.237	0.81299	1.00002					
	GCI x T	Intercept	1.89328	1.1351	1.668	0.09533	6.64113	38	85	49	131	0.06
		GCI	-0.05646	0.03184	-1.773	0.07615	0.9451					
		Tmy	-0.11574	0.09324	-1.241	0.21447	0.89071					
		GCI*Tmy	0.00323	0.0022	1.466	0.14266	1.00323					
	GCI x P	Intercept	0.37361	1.32114	0.283	0.77733	1.45297	59	47	48	131	0.1
		GCI	-0.04368	0.0371	-1.177	0.23907	0.95726					
		Pmy	0.00036	0.00137	0.262	0.79336	1.00036					
		GCI*Pmy	0.00002	0.00003	0.702	0.48287	1.00002					
	GCI x NPP	Intercept	2.30031	2.17851	1.056	0.29101	9.97724	29	96	48	131	0.07
		GCI	-0.08234	0.0537	-1.533	0.12519	0.92096					
		NPP_lim	-0.00127	0.00168	-0.757	0.4489	0.99873					
		GCI*NPP_lim	0.00005	0.00004	1.268	0.20467	1.00005					
	AI x PET	Intercept	-2.90303	2.07951	-1.396	0.16271	0.05486	80	35	35	131	0.11
		AI	2.48997	1.77784	1.401	0.16135	12.06091					
		PETmy	0.00249	0.00284	0.878	0.38009	1.0025					
		AI*PETmy	-0.00228	0.00259	-0.88	0.37896	0.99772					
	AI x T	Intercept	-5.09124	2.26163	-2.251	0.02438	0.00615	67	47	36	131	0.15
		AI	4.61309	2.01164	2.293	0.02184	100.7948					
		Tmy	0.41267	0.23292	1.772	0.07645	1.51085					
		AI*Tmy	-0.37784	0.20448	-1.848	0.06462	0.68534					
	AI x P	Intercept	1.18519	1.74885	0.678	0.49796	3.27131	89	29	36	131	0.12
		AI	-1.27384	1.78234	-0.715	0.47479	0.27976					
		Pmy	-0.00218	0.00174	-1.253	0.21017	0.99782					
		AI*Pmy	0.00189	0.00138	1.368	0.17119	1.00189					
	AI x NPP	Intercept	0.52685	3.21638	0.164	0.86989	1.69359	80	33	36	131	0.1
		AI	-0.22533	3.06566	-0.074	0.94141	0.79825					
		NPP_lim	-0.00149	0.00262	-0.569	0.56909	0.99851					
		AI*NPP_lim	0.001	0.00235	0.425	0.67077	1.001					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	PET x T	Intercept	2.38752	2.3899	0.999	0.31779	10.88641	42	53	35	131	0.03
		PETmy	-0.00428	0.00362	-1.183	0.2369	0.99573					
		Tmy	-0.06692	0.19501	-0.343	0.73147	0.93527					
		PETmy*Tmy	0.00018	0.00024	0.741	0.45896	1.00018					
	PET x P	Intercept	-2.87362	2.09974	-1.369	0.17114	0.05649	80	29	36	131	0.11
		PETmy	0.00245	0.00287	0.855	0.3928	1.00245					
		Pmy	0.00413	0.00217	1.907	0.05656	1.00414					
		PETmy*Pmy	0	0	-1.373	0.16979	1					
	PET x NPP	Intercept	-5.59377	3.55606	-1.573	0.11571	0.00372	74	31	36	131	0.07
		PETmy	0.00494	0.00422	1.171	0.24168	1.00495					
		NPP_lim	0.00558	0.00298	1.87	0.06151	1.00559					
		PETmy*NPP_lim	-0.00001	0	-1.575	0.11518	0.99999					
	T x P	Intercept	-3.48466	1.48977	-2.339	0.01933	0.03066	79	33	36	131	0.14
		Tmy	0.2269	0.15849	1.432	0.15226	1.2547					
		Pmy	0.00486	0.00176	2.759	0.0058	1.00488					
		Tmy*Pmy	-0.00032	0.00016	-1.997	0.04584	0.99968					
	T x NPP	Intercept	-7.86475	2.58293	-3.045	0.00233	0.00038	58	68	36	131	0.14
		Tmy	0.48165	0.21256	2.266	0.02345	1.61875					
		NPP_lim	0.00761	0.00246	3.094	0.00197	1.00764					
		Tmy*NPP_lim	-0.00047	0.00017	-2.822	0.00477	0.99953					
	P x NPP	Intercept	-0.64227	3.09061	-0.208	0.83538	0.5261	87	31	35	131	0.13
		Pmy	0.00487	0.00341	1.43	0.1526	1.00488					
		NPP_lim	-0.00185	0.00299	-0.62	0.53547	0.99815					
		Pmy*NPP_lim	0	0	-0.467	0.64038	1					
COL	GCI x AI	Intercept	-0.71013	1.65716	-0.429	0.66827	0.49158	58	58	45	131	0.19
		GCI	-0.02112	0.05185	-0.407	0.68382	0.97911					
		AI	1.68118	1.49917	1.121	0.26212	5.3719					
		GCI*AI	-0.01771	0.04751	-0.373	0.70938	0.98245					
	GCI x PET	Intercept	4.67221	2.36696	1.974	0.04839	106.9337	52	90	43	131	0.21
		GCI	-0.07639	0.08442	-0.905	0.36553	0.92645					
		PETmy	-0.0046	0.00262	-1.754	0.07942	0.99541					
		GCI*PETmy	0.00005	0.00009	0.497	0.61922	1.00005					
	GCI x T	Intercept	3.95316	1.54418	2.56	0.01047	52.09981	39	88	44	131	0.16
		GCI	-0.09998	0.04887	-2.046	0.04077	0.90485					
		Tmy	-0.23067	0.11387	-2.026	0.04279	0.794					
		GCI*Tmy	0.00457	0.00316	1.444	0.1486	1.00458					
	GCI x P	Intercept	1.03486	1.43423	0.722	0.47058	2.8147	48	87	44	131	0.15

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		GCI	-0.05036	0.04224	-1.192	0.2332	0.95089					
		Pmy	0.00042	0.00147	0.285	0.77578	1.00042					
		GCI*Pmy	0.00001	0.00004	0.18	0.85707	1.00001					
	GCI x NPP	Intercept	4.39548	2.46831	1.781	0.07495	81.08319	45	60	44	131	0.15
		GCI	-0.11012	0.06562	-1.678	0.09329	0.89572					
		NPP_lim	-0.00242	0.00185	-1.308	0.19086	0.99759					
		GCI*NPP_lim	0.00005	0.00004	1.145	0.25219	1.00005					
	AI x PET	Intercept	-2.65282	2.15844	-1.229	0.21905	0.07045	73	53	32	131	0.24
		AI	4.83807	1.9923	2.428	0.01517	126.2252					
		PETmy	0.00266	0.00297	0.893	0.37172	1.00266					
		AI*PETmy	-0.00603	0.00294	-2.049	0.04044	0.99399					
	AI x T	Intercept	-3.70625	2.02987	-1.826	0.06787	0.02457	73	55	33	131	0.18
		AI	4.15923	1.85497	2.242	0.02495	64.02246					
		Tmy	0.23173	0.20755	1.117	0.2642	1.26078					
		AI*Tmy	-0.29678	0.18642	-1.592	0.11139	0.74321					
	AI x P	Intercept	1.48858	1.80427	0.825	0.40935	4.43082	69	77	33	131	0.25
		AI	1.05016	1.78793	0.587	0.55696	2.85812					
		Pmy	-0.00582	0.00207	-2.816	0.00486	0.9942					
		AI*Pmy	0.00188	0.00144	1.309	0.19059	1.00188					
	AI x NPP	Intercept	1.38341	3.2449	0.426	0.66986	3.98849	69	70	33	131	0.21
		AI	1.40344	3.1258	0.449	0.65344	4.06919					
		NPP_lim	-0.00321	0.0027	-1.189	0.23435	0.9968					
		AI*NPP_lim	0.00048	0.00241	0.197	0.84351	1.00048					
	PET x T	Intercept	2.53462	2.65446	0.955	0.33965	12.61159	52	82	30	131	0.21
		PETmy	-0.00574	0.00406	-1.416	0.1568	0.99427					
		Tmy	0.26759	0.23026	1.162	0.24518	1.30681					
		PETmy*Tmy	-0.00013	0.00029	-0.462	0.64431	0.99987					
	PET x P	Intercept	-2.96887	2.36991	-1.253	0.2103	0.05136	59	57	33	131	0.24
		PETmy	0.0031	0.00331	0.937	0.34897	1.00311					
		Pmy	0.00699	0.00265	2.636	0.00838	1.00701					
		PETmy*Pmy	-0.00001	0	-2.314	0.02068	0.99999					
	PET x NPP	Intercept	-9.15196	3.92846	-2.33	0.01982	0.00011	52	62	33	131	0.26
		PETmy	0.00943	0.0048	1.966	0.0493	1.00948					
		NPP_lim	0.01064	0.00342	3.108	0.00189	1.0107					
		PETmy*NPP_lim	-0.00001	0	-2.931	0.00338	0.99999					
	T x P	Intercept	-6.258	1.944	-3.219	0.00129	0.00192	68	60	33	131	0.24
		Tmy	0.56441	0.21459	2.63	0.00853	1.7584					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Pmy	0.00924	0.00248	3.723	0.0002	1.00928					
		Tmy*Pmy	-0.00079	0.00024	-3.223	0.00127	0.99921					
	T x NPP	Intercept	-12.7807	3.22099	-3.968	0.00007	0	77	62	33	131	0.28
		Tmy	1.03621	0.2996	3.459	0.00054	2.81852					
		NPP_lim	0.01244	0.00306	4.07	0.00005	1.01252					
		Tmy*NPP_lim	-0.00097	0.00025	-3.951	0.00008	0.99903					
	P x NPP	Intercept	-4.07862	3.41556	-1.194	0.23243	0.01693	66	57	32	131	0.2
		Pmy	0.01257	0.00448	2.808	0.00499	1.01265					
		NPP_lim	0.00038	0.00315	0.122	0.90271	1.00038					
		Pmy*NPP_lim	-0.00001	0	-1.976	0.04812	0.99999					
EAR	GCI x AI	Intercept	3.64899	2.14431	1.702	0.08881	38.43599	78	51	43	131	0.24
		GCI	-0.08592	0.06934	-1.239	0.21533	0.91767					
		AI	-1.33605	1.90911	-0.7	0.48403	0.26288					
		GCI*AI	0.01772	0.06244	0.284	0.77662	1.01787					
	GCI x PET	Intercept	QS					60	77	41	131	0.52
		GCI	QS									
		PETmy	QS									
		GCI*PETmy	QS									
	GCI x T	Intercept	-7.68367	2.42993	-3.162	0.00157	0.00046	87	75	42	131	0.54
		GCI	0.0721	0.05693	1.266	0.20534	1.07477					
		Tmy	1.17498	0.27015	4.349	0.00001	3.23807					
		GCI*Tmy	-0.01777	0.00541	-3.284	0.00102	0.98239					
	GCI x P	Intercept	-0.48948	1.67523	-0.292	0.77014	0.61295	78	32	41	131	0.24
		GCI	0.0228	0.05128	0.445	0.65658	1.02306					
		Pmy	0.0031	0.00218	1.423	0.15471	1.0031					
		GCI*Pmy	-0.00011	0.00007	-1.571	0.11629	0.99989					
	GCI x NPP	Intercept	-4.26741	2.3909	-1.785	0.07429	0.01402	68	72	41	131	0.26
		GCI	0.07942	0.06081	1.306	0.19154	1.08265					
		NPP_lim	0.00522	0.00206	2.537	0.01119	1.00524					
		GCI*NPP_lim	-0.00012	0.00005	-2.231	0.0257	0.99988					
	AI x PET	Intercept	-10.5859	3.79265	-2.791	0.00525	0.00003	40	82	27	131	0.11
		AI	8.51418	3.17191	2.684	0.00727	4984.932					
		PETmy	0.0164	0.0056	2.931	0.00337	1.01654					
		AI*PETmy	-0.0136	0.00483	-2.816	0.00486	0.9865					
	AI x T	Intercept	-28.6003	6.97109	-4.103	0.00004	0	78	86	29	131	0.41
		AI	23.60327	5.85099	4.034	0.00005	10000+					
		Tmy	3.2075	0.76084	4.216	0.00002	24.71711					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI*Tmy	-2.58656	0.6213	-4.163	0.00003	0.07528					
	AI x P	Intercept	-1.10739	1.71267	-0.647	0.5179	0.33042	80	24	29	131	0.03
		AI	1.01939	1.73806	0.587	0.55753	2.77149					
		Pmy	0.00185	0.00171	1.082	0.27942	1.00185					
		AI*Pmy	-0.00146	0.00136	-1.08	0.2803	0.99854					
	AI x NPP	Intercept	-5.49836	3.23126	-1.702	0.08883	0.00409	77	25	29	131	0.06
		AI	4.77369	3.07254	1.554	0.12027	118.3555					
		NPP_lim	0.00523	0.00264	1.983	0.04736	1.00525					
		AI*NPP_lim	-0.00432	0.00236	-1.826	0.0678	0.99569					
	PET x T	Intercept	-12.0545	3.50733	-3.437	0.00059	0.00001	85	54	27	131	0.22
		PETmy	0.01319	0.00455	2.898	0.00376	1.01328					
		Tmy	1.19712	0.32198	3.718	0.0002	3.31057					
		PETmy*Tmy	-0.00122	0.00036	-3.399	0.00068	0.99878					
	PET x P	Intercept	-11.3091	3.07295	-3.68	0.00023	0.00001	65	85	29	131	0.17
		PETmy	0.01731	0.0045	3.849	0.00012	1.01746					
		Pmy	0.00939	0.00286	3.284	0.00102	1.00943					
		PETmy*Pmy	-0.00001	0	-3.579	0.00034	0.99999					
	PET x NPP	Intercept	-19.9422	4.87847	-4.088	0.00004	0	77	62	29	131	0.19
		PETmy	0.02662	0.00635	4.194	0.00003	1.02698					
		NPP_lim	0.01407	0.0037	3.802	0.00014	1.01417					
		PETmy*NPP_lim	-0.00002	0	-4.047	0.00005	0.99998					
	T x P	**Intercept**	-20.3415	4.31306	-4.716	**0**	0	75	90	29	131	**0.72**
		Tmy	2.63107	0.51449	5.114	**0**	13.88862					
		Pmy	0.01781	0.00479	3.715	**0.0002**	1.01797					
		Tmy*Pmy	-0.00225	0.00053	-4.256	**0.00002**	0.99775					
	T x NPP	Intercept	-18.4603	4.50629	-4.097	0.00004	0	75	94	29	131	0.66
		Tmy	3.08606	0.59109	5.221	0	21.89062					
		NPP_lim	0.00781	0.00336	2.322	0.02024	1.00784					
		Tmy*NPP_lim	-0.00168	0.00037	-4.555	0.00001	0.99832					
	P x NPP	Intercept	-22.6559	4.5956	-4.93	0	0	70	86	28	131	0.33
		Pmy	0.02017	0.0051	3.958	0.00008	1.02038					
		NPP_lim	0.02221	0.00431	5.151	0	1.02245					
		Pmy*NPP_lim	-0.00002	0	-4.741	0	0.99998					
ERO	GCI x AI	Intercept	-2.48914	2.02809	-1.227	0.2197	0.08298	90	50	46	131	0.18
		GCI	0.0159	0.05887	0.27	0.78706	1.01603					
		AI	0.7441	2.0063	0.371	0.71073	2.10454					
		GCI*AI	0.03784	0.06184	0.612	0.54059	1.03856					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	GCI x PET	Intercept	-4.22083	2.61594	-1.614	0.10664	0.01469	83	42	43	131	0.11
		GCI	0.12049	0.10127	1.19	0.2341	1.12805					
		PETmy	0.00324	0.00287	1.129	0.2589	1.00324					
		GCI*PETmy	-0.00007	0.00011	-0.67	0.50286	0.99993					
	GCI x T	Intercept	-3.37025	1.86308	-1.809	0.07046	0.03438	72	65	45	131	0.13
		GCI	0.06846	0.06734	1.017	0.30932	1.07086					
		Tmy	0.1586	0.14398	1.101	0.27069	1.17186					
		GCI*Tmy	-0.00009	0.00554	-0.017	0.98679	0.99991					
	GCI x P	Intercept	-7.9931	3.56806	-2.24	0.02508	0.00034	97	58	44	131	0.3
		GCI	0.13215	0.12194	1.084	0.27851	1.14128					
		Pmy	0.00736	0.00407	1.81	0.07028	1.00739					
		GCI*Pmy	-0.00005	0.00015	-0.345	0.73042	0.99995					
	GCI x NPP	Intercept	-10.7427	4.67697	-2.297	0.02162	0.00002	83	69	44	131	0.3
		GCI	0.11586	0.16386	0.707	0.47954	1.12283					
		NPP_lim	0.00676	0.00358	1.887	0.05914	1.00679					
		GCI*NPP_lim	0.00001	0.00014	0.057	0.95423	1.00001					
	AI x PET	Intercept	-0.97265	2.52019	-0.386	0.69954	0.37808	90	51	33	131	0.18
		AI	-2.50085	2.6677	-0.937	0.34852	0.08202					
		PETmy	-0.00209	0.00334	-0.625	0.53192	0.99791					
		AI*PETmy	0.00683	0.00395	1.73	0.08365	1.00685					
	AI x T	Intercept	5.98488	3.29257	1.818	0.06911	397.3754	83	52	34	131	0.2
		AI	-6.71562	3.11783	-2.154	0.03124	0.00121					
		Tmy	-0.80983	0.35191	-2.301	0.02138	0.44493					
		AI*Tmy	0.85933	0.33182	2.59	0.0096	2.36157					
	AI x P	Intercept	2.0704	3.03298	0.683	0.49484	7.92799	86	53	34	131	0.21
		AI	-4.95697	2.86316	-1.731	0.0834	0.00703					
		Pmy	-0.00151	0.00465	-0.325	0.74517	0.99849					
		AI*Pmy	0.00504	0.00389	1.294	0.19552	1.00505					
	AI x NPP	Intercept	6.2932	4.40044	1.43	0.15268	540.8809	83	56	34	131	0.2
		AI	-9.48969	4.29351	-2.21	0.02709	0.00008					
		NPP_lim	-0.00599	0.00408	-1.468	0.14222	0.99403					
		AI*NPP_lim	0.00849	0.00377	2.254	0.02422	1.00852					
	PET x T	Intercept	-3.88615	2.61824	-1.484	0.13774	0.02052	72	69	33	131	0.05
		PETmy	0.00421	0.00398	1.056	0.29079	1.00421					
		Tmy	0.33184	0.22949	1.446	0.14818	1.39353					
		PETmy*Tmy	-0.00031	0.00028	-1.124	0.26097	0.99969					
	PET x P	Intercept	-1.67384	2.9984	-0.558	0.57668	0.18753	90	51	34	131	0.17

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy	-0.00117	0.00401	-0.292	0.77012	0.99883					
		Pmy	0.00123	0.00413	0.298	0.76534	1.00123					
		PETmy*Pmy	0	0.00001	0.515	0.60671	1					
	PET x NPP	Intercept	-3.87975	4.6233	-0.839	0.40137	0.02066	79	54	34	131	0.13
		PETmy	0.00019	0.00556	0.035	0.97241	1.00019					
		NPP_lim	0.00322	0.00429	0.751	0.45252	1.00323					
		PETmy*NPP_lim	0	0.00001	0.026	0.97913	1					
	T x P	Intercept	5.4562	3.67258	1.486	0.13737	234.2062	90	61	34	131	0.24
		Tmy	-0.90803	0.40352	-2.25	0.02443	0.40332					
		Pmy	-0.00702	0.00513	-1.368	0.17124	0.993					
		Tmy*Pmy	0.00109	0.00052	2.115	0.03442	1.00109					
	T x NPP	Intercept	1.30899	4.13636	0.316	0.75165	3.70244	90	51	34	131	0.17
		Tmy	-0.66517	0.41465	-1.604	0.10867	0.51419					
		NPP_lim	-0.00035	0.00396	-0.087	0.93055	0.99965					
		Tmy*NPP_lim	0.00047	0.00035	1.339	0.18043	1.00047					
	P x NPP	Intercept	12.65747	6.80796	1.859	0.063	10000+	86	57	32	131	0.24
		Pmy	-0.01881	0.01188	-1.583	0.11343	0.98137					
		NPP_lim	-0.01276	0.00596	-2.142	0.03218	0.98732					
		Pmy*NPP_lim	0.00002	0.00001	2.117	0.03427	1.00002					
PON	GCI x AI	Intercept	13.0077	3.54629	3.668	0.00024	10000+	67	85	40	112	0.3
		GCI	-0.43343	0.10791	-4.017	0.00006	0.64828					
		AI	-14.4624	3.66017	-3.951	0.00008	0					
		GCI*AI	0.51135	0.12022	4.254	0.00002	1.66755					
	GCI x PET	Intercept	-19.932	5.0484	-3.948	0.00008	0	52	85	38	112	0.31
		GCI	0.95761	0.21998	4.353	0.00001	2.60545					
		PETmy	0.02216	0.00586	3.782	0.00016	1.02241					
		GCI*PETmy	-0.00114	0.00027	-4.297	0.00002	0.99886					
	GCI x T	Intercept	1.0563	1.55549	0.679	0.49709	2.87571	52	87	39	112	0.04
		GCI	-0.03542	0.05205	-0.68	0.4962	0.9652					
		Tmy	-0.17016	0.12495	-1.362	0.17324	0.84353					
		GCI*Tmy	0.0065	0.00497	1.308	0.19089	1.00653					
	GCI x P	Intercept	3.61835	2.57932	1.403	0.16067	37.27587	81	78	38	112	0.08
		GCI	-0.15669	0.08557	-1.831	0.06709	0.85497					
		Pmy	-0.00567	0.00309	-1.831	0.06715	0.99435					
		GCI*Pmy	0.00025	0.00011	2.275	0.02291	1.00025					
	GCI x NPP	Intercept	5.92183	3.26789	1.812	0.06997	373.0951	81	71	38	112	0.1
		GCI	-0.30545	0.12355	-2.472	0.01343	0.73679					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		NPP_lim	-0.00575	0.00262	-2.192	0.02838	0.99427					
		GCI*NPP_lim	0.0003	0.00011	2.723	0.00646	1.0003					
	AI x PET	Intercept	0.25161	2.47542	0.102	0.91904	1.2861	62	45	28	112	0.02
		AI	-0.168	2.62399	-0.064	0.94895	0.84536					
		PETmy	-0.00138	0.00342	-0.403	0.68707	0.99862					
		AI*PETmy	0.00114	0.00399	0.286	0.77494	1.00114					
	AI x T	Intercept	-1.66088	2.99464	-0.555	0.57916	0.18997	62	47	29	112	0.03
		AI	2.09441	2.8433	0.737	0.46136	8.12069					
		Tmy	0.08869	0.2946	0.301	0.76336	1.09275					
		AI*Tmy	-0.14695	0.281	-0.523	0.60102	0.86334					
	AI x P	Intercept	-0.40724	2.42118	-0.168	0.86643	0.66548	62	27	29	112	0.02
		AI	0.54313	2.36082	0.23	0.81804	1.72139					
		Pmy	-0.00062	0.00282	-0.219	0.82649	0.99938					
		AI*Pmy	0.00024	0.00188	0.126	0.89944	1.00024					
	AI x NPP	Intercept	-3.90595	4.16105	-0.939	0.34789	0.02012	62	47	29	112	0.03
		AI	5.23874	4.52631	1.157	0.24711	188.432					
		NPP_lim	0.00207	0.00331	0.624	0.53249	1.00207					
		AI*NPP_lim	-0.00329	0.00338	-0.975	0.32951	0.99671					
	PET x T	Intercept	9.84444	4.70207	2.094	0.03629	10000+	48	52	27	112	0.06
		PETmy	-0.01395	0.00688	-2.027	0.04268	0.98615					
		Tmy	-0.74761	0.38877	-1.923	0.05448	0.4735					
		PETmy*Tmy	0.001	0.00052	1.948	0.0514	1.00101					
	PET x P	Intercept	1.61757	3.00457	0.538	0.59032	5.04084	43	60	29	112	0.02
		PETmy	-0.00338	0.0043	-0.786	0.43177	0.99662					
		Pmy	-0.00109	0.00375	-0.29	0.77189	0.99891					
		PETmy*Pmy	0	0.00001	0.538	0.59056	1					
	PET x NPP	Intercept	4.2411	4.87123	0.871	0.38395	69.48413	38	73	29	112	0.02
		PETmy	-0.00628	0.00611	-1.028	0.30409	0.99374					
		NPP_lim	-0.00299	0.00428	-0.698	0.4853	0.99702					
		PETmy*NPP_lim	0	0.00001	0.842	0.39951	1					
	T x P	Intercept	3.93745	3.52618	1.117	0.26415	51.28766	62	66	29	112	0.05
		Tmy	-0.54678	0.38207	-1.431	0.1524	0.57881					
		Pmy	-0.00393	0.00457	-0.86	0.38992	0.99608					
		Tmy*Pmy	0.00055	0.00046	1.188	0.23502	1.00055					
	T x NPP	Intercept	4.23962	4.67686	0.907	0.36467	69.3814	62	74	29	112	0.04
		Tmy	-0.60018	0.4488	-1.337	0.18112	0.54871					
		NPP_lim	-0.00273	0.00425	-0.642	0.52109	0.99728					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Tmy*NPP_lim	0.0004	0.00037	1.084	0.27819	1.00041					
	P x NPP	Intercept	-0.49021	7.79985	-0.063	0.94989	0.6125	90	32	28	112	0.03
		Pmy	0.00606	0.01273	0.476	0.6339	1.00608					
		NPP_lim	-0.00198	0.00612	-0.323	0.74674	0.99802					
		Pmy*NPP_lim	0	0.00001	-0.238	0.81156	1					

Table 7. Logistic regression models of the effect of climate variables interactions on the scores of the visual soil quality indicators for **alkaline soils**. Models with two explanatory variables and an interaction term (product of the two variables). %CP percentage of correct predictions.

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	GCI x AI	Intercept	-1.49979	0.94403	-1.589	0.11213	0.22318	75	28	57	122	0.09
		GCI	0.06647	0.03352	1.983	0.04739	1.06872					
		AI	1.37511	1.2575	1.094	0.27416	3.95551					
		GCI*AI	-0.06428	0.04091	-1.571	0.11612	0.93774					
	GCI x PET	Intercept	-1.44456	3.3	-0.438	0.66157	0.23585	70	28	54	122	0.03
		GCI	0.04987	0.12565	0.397	0.69146	1.05113					
		PETmy	0.00097	0.00333	0.291	0.77132	1.00097					
		GCI*PETmy	-0.00004	0.00014	-0.258	0.79603	0.99996					
	GCI x T	Intercept	-2.37527	2.34423	-1.013	0.31095	0.09299	49	59	55	122	0.21
		GCI	0.1199	0.0763	1.571	0.11609	1.12739					
		Tmy	0.16982	0.15143	1.121	0.2621	1.18509					
		GCI*Tmy	-0.00937	0.00534	-1.754	0.07943	0.99067					
	GCI x P	Intercept	-0.96548	1.07542	-0.898	0.36931	0.3808	63	37	58	122	0.12
		GCI	0.06603	0.03785	1.745	0.08105	1.06826					
		Pmy	0.00064	0.00155	0.41	0.68217	1.00064					
		GCI*Pmy	-0.00007	0.00005	-1.374	0.16948	0.99993					
	GCI x NPP	Intercept	-1.1484	1.31511	-0.873	0.38254	0.31714	63	37	56	122	0.13
		GCI	0.08714	0.04829	1.805	0.07115	1.09105					
		NPP_lim	0.00056	0.00125	0.447	0.65456	1.00056					
		GCI*NPP_lim	-0.00007	0.00005	-1.493	0.13547	0.99993					
	AI x PET	Intercept	-0.32244	1.39482	-0.231	0.81718	0.72438	37	78	34	122	0.15
		AI	2.83021	1.8306	1.546	0.12209	16.9491					
		PETmy	0.0013	0.00133	0.976	0.32925	1.0013					
		AI*PETmy	-0.00486	0.00241	-2.015	0.04388	0.99515					
	AI x T	Intercept	-0.02609	1.35958	-0.019	0.98469	0.97425	45	70	34	122	0.32
		AI	2.48182	1.68024	1.477	0.13966	11.96296					
		Tmy	0.04701	0.09186	0.512	0.60886	1.04813					
		AI*Tmy	-0.281	0.13628	-2.062	0.03921	0.75503					
	AI x P	Intercept	0.18441	0.82806	0.223	0.82376	1.20251	45	70	36	122	0.16
		AI	2.55577	1.42232	1.797	0.07235	12.88115					
		Pmy	-0.00191	0.00178	-1.071	0.28416	0.99809					
		AI*Pmy	-0.00154	0.0014	-1.097	0.27283	0.99846					
	AI x NPP	Intercept	-1.43179	1.24271	-1.152	0.24926	0.23888	61	52	34	122	0.25

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI	6.19678	2.27835	2.72	0.00653	491.16515					
		NPP_lim	0.0007	0.00142	0.491	0.6236	1.0007					
		AI*NPP_lim	-0.00467	0.00183	-2.558	0.01052	0.99534					
	PET x T	Intercept	5.26837	2.91883	1.805	0.07108	194.1001	67	61	28	122	0.44
		PETmy	-0.00313	0.00405	-0.771	0.44044	0.99688					
		Tmy	-0.5809	0.18767	-3.095	0.00197	0.55939					
		PETmy*Tmy	0.00038	0.00022	1.765	0.07749	1.00038					
	PET x P	Intercept	1.69446	1.97933	0.856	0.39195	5.44371	45	70	36	122	0.09
		PETmy	-0.0008	0.00186	-0.429	0.6678	0.9992					
		Pmy	-0.00189	0.00287	-0.659	0.50998	0.99811					
		PETmy*Pmy	0	0	0.158	0.87421	1					
	PET x NPP	Intercept	4.08246	3.05778	1.335	0.18184	59.29093	54	61	34	122	0.1
		PETmy	-0.00274	0.00275	-0.995	0.31957	0.99726					
		NPP_lim	-0.00363	0.00294	-1.235	0.21691	0.99637					
		PETmy*NPP_lim	0	0	0.848	0.39669	1					
	T x P	Intercept	1.64786	1.83062	0.9	0.36803	5.19585	54	59	36	122	0.21
		Tmy	-0.06277	0.12091	-0.519	0.60366	0.93916					
		Pmy	-0.00052	0.00302	-0.173	0.86293	0.99948					
		Tmy*Pmy	-0.00006	0.0002	-0.301	0.76323	0.99994					
	T x NPP	Intercept	3.84817	3.46887	1.109	0.26728	46.90723	54	59	34	122	0.21
		Tmy	-0.18263	0.21061	-0.867	0.38587	0.83308					
		NPP_lim	-0.00273	0.0037	-0.737	0.46093	0.99728					
		Tmy*NPP_lim	0.00009	0.00023	0.415	0.67793	1.00009					
	P x NPP	Intercept	-3.33511	1.80977	-1.843	0.06535	0.03561	42	85	33	122	0.26
		Pmy	0.01316	0.00599	2.199	0.02785	1.01325					
		NPP_lim	0.00102	0.00223	0.458	0.64711	1.00102					
		Pmy*NPP_lim	-0.00001	0	-2.547	0.01088	0.99999					
POR	GCI x AI	Intercept	-0.82267	0.89937	-0.915	0.36034	0.43926	55	50	54	122	0.04
		GCI	0.01247	0.03077	0.405	0.68522	1.01255					
		AI	1.06259	1.18153	0.899	0.36847	2.89386					
		GCI*AI	-0.01375	0.0372	-0.37	0.71167	0.98635					
	GCI x PET	Intercept	6.31474	3.62384	1.743	0.08141	552.65648	62	57	51	122	0.06
		GCI	-0.22247	0.14077	-1.58	0.11403	0.80054					
		PETmy	-0.00649	0.00369	-1.76	0.07848	0.99353					
		GCI*PETmy	0.00024	0.00015	1.585	0.11298	1.00024					
	GCI x T	Intercept	2.7483	1.42193	1.933	0.05326	15.61613	67	57	52	122	0.09
		GCI	-0.04711	0.03837	-1.228	0.21954	0.95399					
		Tmy	-0.18932	0.09434	-2.007	0.04477	0.82752					
		GCI*Tmy	0.0032	0.0028	1.144	0.25249	1.00321					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	GCI x P	Intercept	0.03891	0.98598	0.039	0.96852	1.03968	76	32	55	122	0.01
		GCI	-0.01203	0.03216	-0.374	0.70832	0.98804					
		Pmy	-0.00027	0.00137	-0.2	0.84155	0.99973					
		GCI*Pmy	0.00003	0.00004	0.619	0.53607	1.00003					
	GCI x NPP	Intercept	0.1081	1.19365	0.091	0.92784	1.11416	76	25	54	122	0.01
		GCI	-0.01139	0.03919	-0.291	0.77136	0.98868					
		NPP_lim	-0.00025	0.00111	-0.228	0.81927	0.99975					
		GCI*NPP_lim	0.00002	0.00004	0.475	0.63478	1.00002					
	AI x PET	Intercept	-1.94398	1.48644	-1.308	0.19094	0.14313	56	57	36	122	0.13
		AI	3.58152	1.82319	1.964	0.04948	35.92795					
		PETmy	0.0018	0.00137	1.313	0.18908	1.0018					
		AI*PETmy	-0.00386	0.00223	-1.729	0.08375	0.99614					
	AI x T	Intercept	-2.34311	1.50229	-1.56	0.11883	0.09603	83	39	36	122	0.26
		AI	4.32829	1.75208	2.47	0.0135	75.81436					
		Tmy	0.13821	0.09608	1.439	0.15027	1.14822					
		AI*Tmy	-0.29692	0.12386	-2.397	0.01652	0.7431					
	AI x P	Intercept	-0.34445	0.78409	-0.439	0.66044	0.70861	73	41	38	122	0.09
		AI	1.89604	1.34727	1.407	0.15933	6.65949					
		Pmy	-0.00125	0.00156	-0.805	0.42085	0.99875					
		AI*Pmy	-0.00042	0.00114	-0.368	0.71292	0.99958					
	AI x NPP	Intercept	-2.00857	1.28785	-1.56	0.11885	0.13418	63	57	36	122	0.19
		AI	5.61569	2.24371	2.503	0.01232	274.70262					
		NPP_lim	0.00084	0.00137	0.609	0.54253	1.00084					
		AI*NPP_lim	-0.00355	0.00175	-2.033	0.04205	0.99646					
	PET x T	Intercept	8.86965	3.0845	2.876	0.00403	7112.76201	67	61	31	122	0.36
		PETmy	-0.00984	0.00422	-2.333	0.01963	0.99021					
		Tmy	-0.60456	0.1882	-3.212	0.00132	0.54631					
		PETmy*Tmy	0.00062	0.00023	2.711	0.00671	1.00062					
	PET x P	Intercept	-0.26932	1.82406	-0.148	0.88262	0.7639	62	48	38	122	0.04
		PETmy	0.00007	0.00174	0.041	0.96768	1.00007					
		Pmy	0.00137	0.0025	0.547	0.58461	1.00137					
		PETmy*Pmy	0	0	-0.435	0.66387	1					
	PET x NPP	Intercept	1.66097	2.94204	0.565	0.57237	5.26442	36	70	36	122	0.03
		PETmy	-0.00166	0.00268	-0.621	0.53463	0.99834					
		NPP_lim	-0.00093	0.00276	-0.338	0.73531	0.99907					
		PETmy*NPP_lim	0	0	0.374	0.7083	1					
	T x P	Intercept	-1.49249	1.8599	-0.802	0.42229	0.22481	62	57	38	122	0.15
		Tmy	0.07202	0.12199	0.59	0.55493	1.07468					
		Pmy	0.00441	0.00305	1.447	0.14781	1.00442					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Tmy*Pmy	-0.00027	0.0002	-1.339	0.18072	0.99973					
	T x NPP	Intercept	-2.83191	3.35079	-0.845	0.39803	0.0589	62	57	36	122	0.13
		Tmy	0.14565	0.20453	0.712	0.4764	1.15679					
		NPP_lim	0.00424	0.00355	1.194	0.23257	1.00425					
		Tmy*NPP_lim	-0.00025	0.00022	-1.144	0.25278	0.99975					
	P x NPP	Intercept	-4.30514	1.96602	-2.19	0.02854	0.0135	53	77	35	122	0.24
		Pmy	0.01713	0.00597	2.869	0.00412	1.01728					
		NPP_lim	-0.00039	0.00255	-0.153	0.87876	0.99961					
		Pmy*NPP_lim	-0.00001	0	-2.672	0.00755	0.99999					
STA	GCI x AI	Intercept	0.892	1.24059	0.719	0.47213	2.44001	67	55	51	122	0.14
		GCI	-0.06998	0.04954	-1.412	0.15781	0.93241					
		AI	0.56258	1.40043	0.402	0.68789	1.7552					
		GCI*AI	0.02753	0.04902	0.562	0.57445	1.02791					
	GCI x PET	Intercept	-14.54393	4.57257	-3.181	0.00147	0	60	75	47	122	0.2
		GCI	0.57284	0.17717	3.233	0.00122	1.7733					
		PETmy	0.01613	0.00476	3.39	0.0007	1.01626					
		GCI*PETmy	-0.00068	0.0002	-3.376	0.00073	0.99932					
	GCI x T	Intercept	0.47301	2.05665	0.23	0.8181	1.60482	59	63	48	122	0.06
		GCI	-0.04094	0.06239	-0.656	0.51171	0.95989					
		Tmy	0.01425	0.12864	0.111	0.91179	1.01435					
		GCI*Tmy	0.00123	0.00413	0.298	0.76607	1.00123					
	GCI x P	Intercept	-1.2367	1.25876	-0.982	0.32586	0.29034	76	40	51	122	0.19
		GCI	-0.01366	0.0438	-0.312	0.75515	0.98643					
		Pmy	0.00325	0.00159	2.044	0.04091	1.00325					
		GCI*Pmy	-0.00003	0.00005	-0.527	0.59822	0.99997					
	GCI x NPP	Intercept	-1.90692	1.60721	-1.186	0.23543	0.14854	71	53	50	122	0.21
		GCI	-0.01898	0.0565	-0.336	0.7369	0.9812					
		NPP_lim	0.00283	0.00135	2.089	0.03668	1.00283					
		GCI*NPP_lim	-0.00001	0.00004	-0.323	0.74682	0.99999					
	AI x PET	Intercept	-4.92539	1.69462	-2.906	0.00366	0.00726	77	73	33	122	0.27
		AI	2.36654	1.93435	1.223	0.22117	10.66042					
		PETmy	0.00303	0.00147	2.063	0.03916	1.00304					
		AI*PETmy	0.00017	0.00221	0.079	0.9371	1.00017					
	AI x T	Intercept	-3.45501	1.66979	-2.069	0.03853	0.03159	77	73	33	122	0.21
		AI	2.00126	1.74476	1.147	0.25138	7.39841					
		Tmy	0.16519	0.10378	1.592	0.11144	1.17962					
		AI*Tmy	-0.03235	0.11838	-0.273	0.78462	0.96816					
	AI x P	Intercept	-2.24074	0.8992	-2.492	0.0127	0.10638	73	50	35	122	0.21
		AI	-0.12676	1.47126	-0.086	0.93134	0.88094					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Pmy	0.00441	0.0016	2.753	0.00591	1.00442					
		AI*Pmy	-0.00091	0.00123	-0.741	0.45895	0.99909					
	AI x NPP	Intercept	-2.26497	1.43855	-1.574	0.11538	0.10383	71	50	33	122	0.21
		AI	-0.88755	2.421	-0.367	0.71391	0.41166					
		NPP_lim	0.00261	0.00145	1.792	0.07312	1.00261					
		AI*NPP_lim	0.00037	0.00188	0.194	0.8459	1.00037					
	PET x T	Intercept	5.32551	3.13691	1.698	0.08957	205.51352	50	63	28	122	0.12
		PETmy	-0.00936	0.00464	-2.017	0.0437	0.99069					
		Tmy	-0.24075	0.17747	-1.357	0.1749	0.78603					
		PETmy*Tmy	0.00049	0.00024	2.004	0.04509	1.00049					
	PET x P	Intercept	-5.95267	2.20676	-2.697	0.00699	0.0026	77	73	35	122	0.27
		PETmy	0.00402	0.00198	2.028	0.04251	1.00403					
		Pmy	0.00671	0.00298	2.254	0.02419	1.00673					
		PETmy*Pmy	0	0	-1.404	0.16022	1					
	PET x NPP	Intercept	-11.46141	3.42446	-3.347	0.00082	0.00001	77	73	33	122	0.35
		PETmy	0.00816	0.00297	2.742	0.00611	1.00819					
		NPP_lim	0.00966	0.00308	3.134	0.00173	1.0097					
		PETmy*NPP_lim	-0.00001	0	-2.386	0.01703	0.99999					
	T x P	Intercept	-2.97346	1.98721	-1.496	0.13458	0.05113	77	73	35	122	0.23
		Tmy	0.10091	0.12866	0.784	0.43285	1.10618					
		Pmy	0.00282	0.00303	0.931	0.35204	1.00282					
		Tmy*Pmy	-0.00003	0.0002	-0.145	0.88439	0.99997					
	T x NPP	Intercept	-7.01918	3.98925	-1.76	0.07849	0.00089	77	73	33	122	0.26
		Tmy	0.30072	0.23943	1.256	0.20912	1.35083					
		NPP_lim	0.0061	0.00405	1.508	0.13164	1.00612					
		Tmy*NPP_lim	-0.00023	0.00024	-0.962	0.3363	0.99977					
	P x NPP	Intercept	-5.3849	2.26328	-2.379	0.01735	0.00459	62	63	33	122	0.24
		Pmy	0.00591	0.00509	1.162	0.24533	1.00593					
		NPP_lim	0.00477	0.0025	1.904	0.05695	1.00478					
		Pmy*NPP_lim	0	0	-1.434	0.15161	1					
PAN	GCI x AI	Intercept	-0.08709	0.97123	-0.09	0.92855	0.9166	61	64	50	122	0.04
		GCI	-0.00707	0.03565	-0.198	0.84279	0.99295					
		AI	1.23987	1.27152	0.975	0.3295	3.45518					
		GCI*AI	-0.02903	0.0427	-0.68	0.4966	0.97139					
	GCI x PET	Intercept	2.24644	3.77635	0.595	0.55193	9.45399	55	67	47	122	0.05
		GCI	-0.05522	0.1465	-0.377	0.70623	0.94628					
		PETmy	-0.0013	0.00382	-0.34	0.73384	0.9987					
		GCI*PETmy	0.00002	0.00016	0.139	0.88931	1.00002					
	GCI x T	Intercept	2.40079	1.49992	1.601	0.10946	11.03193	65	60	47	122	0.1

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		GCI	-0.02944	0.04348	-0.677	0.49841	0.97099					
		Tmy	-0.07567	0.10294	-0.735	0.46228	0.92712					
		GCI*Tmy	-0.00172	0.00359	-0.479	0.63167	0.99828					
	GCI x P	Intercept	0.56049	1.05722	0.53	0.596	1.75154	47	62	50	122	0.03
		GCI	-0.01911	0.03753	-0.509	0.61068	0.98108					
		Pmy	0.00021	0.00143	0.149	0.88153	1.00021					
		GCI*Pmy	-0.00001	0.00005	-0.2	0.84171	0.99999					
	GCI x NPP	Intercept	0.4306	1.27386	0.338	0.73534	1.53818	49	62	49	122	0.03
		GCI	-0.01407	0.04665	-0.302	0.76292	0.98603					
		NPP_lim	0.00026	0.00115	0.226	0.82119	1.00026					
		GCI*NPP_lim	-0.00001	0.00004	-0.268	0.78864	0.99999					
	AI x PET	Intercept	-2.21496	1.42988	-1.549	0.12137	0.10916	53	51	32	122	0.06
		AI	3.72458	1.7702	2.104	0.03537	41.454					
		PETmy	0.00235	0.00133	1.769	0.07684	1.00235					
		AI*PETmy	-0.00449	0.00223	-2.018	0.04359	0.99552					
	AI x T	Intercept	-3.67629	1.52788	-2.406	0.01612	0.02532	57	80	32	122	0.2
		AI	5.91035	1.8249	3.239	0.0012	368.83671					
		Tmy	0.25438	0.09835	2.586	0.0097	1.28966					
		AI*Tmy	-0.45776	0.13649	-3.354	0.0008	0.6327					
	AI x P	Intercept	-0.68852	0.79174	-0.87	0.3845	0.50232	51	47	34	122	0.04
		AI	2.43318	1.35682	1.793	0.07292	11.39507					
		Pmy	-0.00032	0.00156	-0.204	0.83808	0.99968					
		AI*Pmy	-0.00154	0.0012	-1.287	0.19801	0.99846					
	AI x NPP	Intercept	-2.71145	1.3068	-2.075	0.038	0.06644	60	56	32	122	0.11
		AI	6.31401	2.26755	2.785	0.00536	552.25702					
		NPP_lim	0.002	0.0014	1.43	0.15276	1.002					
		AI*NPP_lim	-0.00471	0.00179	-2.631	0.0085	0.9953					
	PET x T	Intercept	12.09573	3.36901	3.59	0.00033	10000+	74	73	27	122	0.3
		PETmy	-0.01442	0.00463	-3.113	0.00185	0.98568					
		Tmy	-0.8204	0.20262	-4.049	0.00005	0.44026					
		PETmy*Tmy	0.00091	0.00025	3.637	0.00028	1.00091					
	PET x P	Intercept	-0.39445	1.81115	-0.218	0.82759	0.67405	55	60	34	122	0
		PETmy	0.00045	0.00172	0.262	0.79338	1.00045					
		Pmy	0.00081	0.00249	0.326	0.74419	1.00081					
		PETmy*Pmy	0	0	-0.376	0.70681	1					
	PET x NPP	Intercept	-0.12833	2.92785	-0.044	0.96504	0.87956	38	60	32	122	0
		PETmy	0.00015	0.00265	0.058	0.95367	1.00015					
		NPP_lim	0.00026	0.00276	0.095	0.92438	1.00026					
		PETmy*NPP_lim	0	0	-0.116	0.90804	1					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	T x P	Intercept	-3.33664	1.98586	-1.68	0.09292	0.03556	66	60	34	122	0.1
		Tmy	0.22246	0.12827	1.734	0.08287	1.24915					
		Pmy	0.00695	0.0033	2.107	0.0351	1.00698					
		Tmy*Pmy	-0.00048	0.00021	-2.226	0.02599	0.99952					
	T x NPP	Intercept	-11.54657	4.16125	-2.775	0.00552	0.00001	68	60	32	122	0.17
		Tmy	0.69753	0.25012	2.789	0.00529	2.00878					
		NPP_lim	0.01318	0.00442	2.98	0.00288	1.01327					
		Tmy*NPP_lim	-0.00081	0.00027	-3.037	0.00239	0.99919					
	P x NPP	Intercept	-5.91358	2.1277	-2.779	0.00545	0.0027	48	78	32	122	0.15
		Pmy	0.01654	0.00585	2.829	0.00467	1.01667					
		NPP_lim	0.00305	0.00232	1.316	0.18833	1.00306					
		Pmy*NPP_lim	-0.00001	0	-3.071	0.00213	0.99999					
COL	GCI x AI	Intercept	-1.43187	1.0588	-1.352	0.17626	0.23886	71	51	51	122	0.09
		GCI	0.02167	0.03661	0.592	0.55381	1.02191					
		AI	2.69082	1.34531	2	0.04548	14.74379					
		GCI*AI	-0.05376	0.04372	-1.23	0.21874	0.94765					
	GCI x PET	Intercept	1.20585	3.77313	0.32	0.74928	3.3396	47	54	47	122	0.01
		GCI	-0.03074	0.14578	-0.211	0.83298	0.96973					
		PETmy	-0.00076	0.00382	-0.198	0.8427	0.99924					
		GCI*PETmy	0.00002	0.00016	0.098	0.92174	1.00002					
	GCI x T	Intercept	2.03628	1.46122	1.394	0.16345	7.66203	72	51	48	122	0.07
		GCI	-0.01865	0.04142	-0.45	0.65253	0.98152					
		Tmy	-0.08112	0.10171	-0.798	0.42514	0.92208					
		GCI*Tmy	-0.00133	0.00348	-0.382	0.70267	0.99867					
	GCI x P	Intercept	-1.22435	1.11811	-1.095	0.27351	0.29395	76	43	51	122	0.05
		GCI	0.01328	0.0367	0.362	0.71745	1.01337					
		Pmy	0.00232	0.00147	1.583	0.11353	1.00232					
		GCI*Pmy	-0.00004	0.00005	-0.757	0.44894	0.99996					
	GCI x NPP	Intercept	-1.36077	1.33054	-1.023	0.30644	0.25646	76	43	50	122	0.03
		GCI	0.02418	0.04513	0.536	0.59208	1.02448					
		NPP_lim	0.00164	0.00119	1.377	0.16864	1.00164					
		GCI*NPP_lim	-0.00003	0.00004	-0.839	0.40173	0.99997					
	AI x PET	Intercept	-5.7348	1.90694	-3.007	0.00264	0.00323	78	57	34	122	0.21
		AI	6.56985	2.26932	2.895	0.00379	713.26221					
		PETmy	0.00472	0.00165	2.863	0.0042	1.00473					
		AI*PETmy	-0.00596	0.00254	-2.342	0.01919	0.99406					
	AI x T	Intercept	-6.65233	2.41802	-2.751	0.00594	0.00129	67	66	34	122	0.33
		AI	9.08264	2.76217	3.288	0.00101	8801.21247					
		Tmy	0.39393	0.14269	2.761	0.00577	1.4828					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI*Tmy	-0.58865	0.17479	-3.368	0.00076	0.55508					
	AI x P	Intercept	-0.58402	0.85305	-0.685	0.49359	0.55765	62	49	36	122	0.07
		AI	0.79978	1.42613	0.561	0.57493	2.22505					
		Pmy	-0.00025	0.00159	-0.157	0.87546	0.99975					
		AI*Pmy	0.00026	0.00122	0.216	0.82897	1.00026					
	AI x NPP	Intercept	-2.84415	1.48797	-1.911	0.05595	0.05818	74	46	34	122	0.14
		AI	5.86136	2.37995	2.463	0.01379	351.20312					
		NPP_lim	0.00159	0.00152	1.049	0.29414	1.0016					
		AI*NPP_lim	-0.0037	0.00186	-1.988	0.04686	0.9963					
	PET x T	Intercept	14.11632	3.65186	3.866	0.00011	10000+	71	80	28	122	0.45
		PETmy	-0.01617	0.00515	-3.138	0.0017	0.98396					
		Tmy	-1.04467	0.23049	-4.532	0.00001	0.35181					
		PETmy*Tmy	0.00109	0.00028	3.93	0.00008	1.00109					
	PET x P	Intercept	-1.87886	1.92484	-0.976	0.32901	0.15276	75	31	36	122	0.05
		PETmy	0.00098	0.00181	0.543	0.58709	1.00098					
		Pmy	0.0025	0.00254	0.984	0.32529	1.0025					
		PETmy*Pmy	0	0	-0.461	0.64509	1					
	PET x NPP	Intercept	1.30947	3.10839	0.421	0.67356	3.70421	59	66	34	122	0.03
		PETmy	-0.00193	0.00282	-0.684	0.49385	0.99807					
		NPP_lim	-0.00126	0.00289	-0.437	0.66228	0.99874					
		PETmy*NPP_lim	0	0	0.727	0.4675	1					
	T x P	Intercept	-4.63754	2.60225	-1.782	0.07473	0.00968	72	49	36	122	0.17
		Tmy	0.23833	0.16279	1.464	0.1432	1.26912					
		Pmy	0.00938	0.00437	2.146	0.0319	1.00942					
		Tmy*Pmy	-0.00053	0.00027	-1.945	0.05183	0.99947					
	T x NPP	Intercept	-6.59584	3.73135	-1.768	0.07711	0.00137	72	49	34	122	0.12
		Tmy	0.34145	0.2277	1.5	0.13372	1.40699					
		NPP_lim	0.00801	0.0039	2.052	0.04012	1.00804					
		Tmy*NPP_lim	-0.00044	0.00024	-1.86	0.06282	0.99956					
	P x NPP	Intercept	QS					82	54	34	122	0.36
		Pmy	QS									
		NPP_lim	QS									
		Pmy*NPP_lim	QS									
EAR	GCI x AI	Intercept	0.48834	0.97311	0.502	0.61579	1.6296	80	53	48	122	0.15
		GCI	0.01918	0.03479	0.551	0.58138	1.01936					
		AI	0.49273	1.43099	0.344	0.7306	1.63677					
		GCI*AI	-0.06821	0.04976	-1.371	0.1704	0.93406					
	GCI x PET	Intercept	9.47604	4.36507	2.171	0.02994	10000+	92	42	45	122	0.12
		GCI	-0.38777	0.17082	-2.27	0.0232	0.67857					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy	-0.00881	0.00438	-2.012	0.04421	0.99123					
		GCI*PETmy	0.00039	0.00018	2.111	0.03475	1.00039					
	GCI x T	Intercept	0.30944	1.36788	0.226	0.82103	1.36266	54	37	46	122	0.07
		GCI	-0.00848	0.03681	-0.23	0.81783	0.99156					
		Tmy	0.05424	0.09113	0.595	0.55175	1.05573					
		GCI*Tmy	-0.00229	0.00282	-0.814	0.41581	0.99771					
	GCI x P	Intercept	1.05317	1.08472	0.971	0.33159	2.86672	77	47	48	122	0.15
		GCI	0.01493	0.03936	0.379	0.70452	1.01504					
		Pmy	-0.00007	0.00162	-0.044	0.96512	0.99993					
		GCI*Pmy	-0.00008	0.00006	-1.33	0.18365	0.99992					
	GCI x NPP	Intercept	0.94175	1.33157	0.707	0.47941	2.56446	74	47	47	122	0.14
		GCI	0.03826	0.05156	0.742	0.45807	1.039					
		NPP_lim	0.00005	0.0013	0.041	0.96706	1.00005					
		GCI*NPP_lim	-0.00008	0.00005	-1.432	0.1521	0.99992					
	AI x PET	Intercept	3.41526	1.81396	1.883	0.05973	30.42483	69	53	33	122	0.19
		AI	-4.19692	2.25687	-1.86	0.06294	0.01504					
		PETmy	-0.00213	0.00158	-1.351	0.17672	0.99787					
		AI*PETmy	0.00264	0.00238	1.108	0.26793	1.00264					
	AI x T	Intercept	1.33249	1.54693	0.861	0.38903	3.79046	69	56	33	122	0.16
		AI	-1.5556	1.7973	-0.866	0.38675	0.21106					
		Tmy	-0.01517	0.09693	-0.156	0.87566	0.98495					
		AI*Tmy	-0.00506	0.11991	-0.042	0.96636	0.99496					
	AI x P	Intercept	1.23845	0.83209	1.488	0.13666	3.45027	69	58	35	122	0.15
		AI	-1.72894	1.41105	-1.225	0.22047	0.17747					
		Pmy	-0.0003	0.0016	-0.188	0.85056	0.9997					
		AI*Pmy	0.0003	0.00139	0.214	0.83025	1.0003					
	AI x NPP	Intercept	0.56657	1.26401	0.448	0.65399	1.76221	69	56	33	122	0.16
		AI	-0.45449	2.13381	-0.213	0.83133	0.63477					
		NPP_lim	0.00046	0.00147	0.314	0.75383	1.00046					
		AI*NPP_lim	-0.00091	0.0018	-0.506	0.61317	0.99909					
	PET x T	Intercept	-10.15363	3.23045	-3.143	0.00167	0.00004	75	49	26	122	0.2
		PETmy	0.0141	0.00442	3.192	0.00141	1.0142					
		Tmy	0.47359	0.188	2.519	0.01176	1.60575					
		PETmy*Tmy	-0.0007	0.00024	-2.964	0.00304	0.9993					
	PET x P	Intercept	0.73034	1.95012	0.375	0.70802	2.07579	69	56	35	122	0.12
		PETmy	0.00038	0.00182	0.21	0.83382	1.00038					
		Pmy	-0.00217	0.00278	-0.783	0.43368	0.99783					
		PETmy*Pmy	0	0	0.148	0.88246	1					
	PET x NPP	Intercept	1.79957	2.95111	0.61	0.542	6.04704	69	56	33	122	0.12

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy	-0.00033	0.00266	-0.124	0.9014	0.99967					
		NPP_lim	-0.00252	0.00279	-0.9	0.36802	0.99749					
		PETmy*NPP_lim	0	0	0.399	0.68983	1					
	T x P	**Intercept**	-1.14304	1.74356	-0.656	0.51209	0.31885	63	68	35	122	0.14
		Tmy	0.16088	0.11661	1.38	0.16768	1.17454					
		Pmy	0.00124	0.00281	0.441	0.65903	1.00124					
		Tmy*Pmy	-0.00021	0.00019	-1.142	0.25331	0.99979					
	T x NPP	Intercept	-2.72412	3.27074	-0.833	0.40491	0.0656	37	74	33	122	0.13
		Tmy	0.26866	0.20057	1.34	0.18041	1.30821					
		NPP_lim	0.00245	0.00346	0.707	0.47966	1.00245					
		Tmy*NPP_lim	-0.00025	0.00021	-1.175	0.2398	0.99975					
	P x NPP	Intercept	0.27215	1.58442	0.172	0.86362	1.31278	82	39	32	122	0.12
		Pmy	-0.00079	0.00537	-0.147	0.88287	0.99921					
		NPP_lim	0.00114	0.00244	0.467	0.64016	1.00114					
		Pmy*NPP_lim	0	0	-0.48	0.63098	1					
ERO	GCI x AI	Intercept	-1.65756	1.08891	-1.522	0.12795	0.1906	79	58	44	122	0.17
		GCI	0.00463	0.04431	0.105	0.91671	1.00464					
		AI	1.76366	1.69385	1.041	0.29778	5.83374					
		GCI*AI	0.02621	0.06731	0.389	0.69701	1.02655					
	GCI x PET	Intercept	-8.63406	5.11279	-1.689	0.09127	0.00018	66	58	42	122	0.12
		GCI	0.40136	0.20265	1.981	0.04764	1.49385					
		PETmy	0.00831	0.00505	1.646	0.09969	1.00834					
		GCI*PETmy	-0.00041	0.00021	-1.928	0.05382	0.99959					
	GCI x T	Intercept	1.15404	1.76233	0.655	0.51257	3.17097	66	60	43	122	0.06
		GCI	0.0004	0.04856	0.008	0.99341	1.0004					
		Tmy	-0.11852	0.11204	-1.058	0.29014	0.88823					
		GCI*Tmy	0.00143	0.0034	0.419	0.675	1.00143					
	GCI x P	Intercept	-2.11104	1.25329	-1.684	0.09211	0.12111	55	74	44	122	0.15
		GCI	0.0033	0.05521	0.06	0.95229	1.00331					
		Pmy	0.00192	0.00201	0.955	0.33937	1.00192					
		GCI*Pmy	0.00006	0.0001	0.629	0.5295	1.00006					
	GCI x NPP	Intercept	-2.13588	1.51977	-1.405	0.1599	0.11814	55	77	43	122	0.14
		GCI	-0.01151	0.06861	-0.168	0.86672	0.98855					
		NPP_lim	0.00128	0.00155	0.825	0.40912	1.00128					
		GCI*NPP_lim	0.00005	0.00007	0.693	0.48861	1.00005					
	AI x PET	Intercept	-1.99736	2.1267	-0.939	0.34764	0.13569	79	54	31	122	0.3
		AI	2.93205	3.00005	0.977	0.3284	18.76604					
		PETmy	0.00036	0.00185	0.194	0.84602	1.00036					
		AI*PETmy	-0.00032	0.0031	-0.102	0.91848	0.99968					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	AI x T	Intercept	0.20993	1.91529	0.11	0.91272	1.2336	61	74	31	122	0.31
		AI	0.42992	2.43184	0.177	0.85968	1.53713					
		Tmy	-0.10799	0.11626	-0.929	0.35297	0.89764					
		AI*Tmy	0.13016	0.16267	0.8	0.42362	1.13902					
	AI x P	Intercept	-0.4274	1.30908	-0.326	0.74405	0.6522	79	54	33	122	0.32
		AI	0.35703	2.36278	0.151	0.87989	1.42908					
		Pmy	-0.00208	0.00285	-0.731	0.46482	0.99792					
		AI*Pmy	0.00346	0.00366	0.944	0.34507	1.00347					
	AI x NPP	Intercept	-0.23299	1.532	-0.152	0.87912	0.79216	79	54	31	122	0.31
		AI	0.13838	2.85536	0.048	0.96135	1.14841					
		NPP_lim	-0.00154	0.00197	-0.782	0.43447	0.99846					
		AI*NPP_lim	0.00247	0.00271	0.91	0.36308	1.00247					
	PET x T	Intercept	3.65238	3.5258	1.036	0.30025	38.5663	66	60	25	122	0.13
		PETmy	-0.00385	0.00465	-0.828	0.40747	0.99615					
		Tmy	-0.12764	0.20458	-0.624	0.53269	0.88017					
		PETmy*Tmy	0.00014	0.00025	0.545	0.58589	1.00014					
	PET x P	Intercept	-1.97645	2.87031	-0.689	0.49109	0.13856	79	54	33	122	0.29
		PETmy	0.0003	0.00249	0.119	0.90526	1.0003					
		Pmy	0.00571	0.00463	1.234	0.21736	1.00572					
		PETmy*Pmy	0	0	-0.687	0.49236	1					
	PET x NPP	Intercept	-3.2057	3.6809	-0.871	0.38381	0.04053	79	54	31	122	0.27
		PETmy	0.00111	0.00318	0.349	0.72688	1.00111					
		NPP_lim	0.00487	0.0037	1.316	0.18827	1.00488					
		PETmy*NPP_lim	0	0	-0.809	0.41874	1					
	T x P	Intercept	0.87942	2.67532	0.329	0.74237	2.4095	55	79	33	122	0.3
		Tmy	-0.16937	0.16516	-1.026	0.30511	0.84419					
		Pmy	0.00065	0.00464	0.141	0.88776	1.00065					
		Tmy*Pmy	0.00014	0.00029	0.471	0.63767	1.00014					
	T x NPP	Intercept	1.3298	4.12688	0.322	0.74728	3.7803	55	79	31	122	0.27
		Tmy	-0.21264	0.24704	-0.861	0.38939	0.80845					
		NPP_lim	-0.00006	0.00443	-0.013	0.98935	0.99994					
		Tmy*NPP_lim	0.00013	0.00027	0.489	0.62456	1.00013					
	P x NPP	Intercept	-2.06625	3.49682	-0.591	0.55459	0.12666	89	42	30	122	0.34
		Pmy	0.31259	0.51138	0.611	0.54102	1.36696					
		NPP_lim	-0.15247	0.24699	-0.617	0.53703	0.85858					
		Pmy*NPP_lim	-0.00006	0.0001	-0.586	0.5577	0.99994					
PON	GCI x AI	Intercept	6.87092	1.93037	3.559	0.00037	963.83873	55	74	43	117	0.31
		GCI	-0.37881	0.09357	-4.048	0.00005	0.68467					
		AI	-8.01039	2.65822	-3.013	0.00258	0.00033					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		GCI*AI	0.49578	0.14027	3.534	0.00041	1.64178					
	GCI x PET	Intercept	-21.94538	8.11027	-2.706	0.00681	0	64	75	40	117	0.15
		GCI	0.89815	0.32568	2.758	0.00582	2.45505					
		PETmy	0.02321	0.00802	2.894	0.00381	1.02348					
		GCI*PETmy	-0.001	0.00034	-2.939	0.0033	0.999					
	GCI x T	Intercept	46.08776	10.94884	4.209	0.00003	10000+	88	73	41	117	0.34
		GCI	-1.66162	0.38998	-4.261	0.00002	0.18983					
		Tmy	-3.10173	0.74907	-4.141	0.00003	0.04497					
		GCI*Tmy	0.12063	0.02935	4.111	0.00004	1.12821					
	GCI x P	Intercept	QS					67	83	43	117	0.37
		GCI	QS									
		Pmy	QS									
		GCI*Pmy	QS									
	GCI x NPP	Intercept	10.20841	2.81023	3.633	0.00028	10000+	67	86	42	117	0.35
		GCI	-0.68531	0.16664	-4.113	0.00004	0.50394					
		NPP_lim	-0.00927	0.00274	-3.39	0.0007	0.99077					
		GCI*NPP_lim	0.0007	0.00018	3.85	0.00012	1.0007					
	AI x PET	Intercept	-18.31938	3.79289	-4.83	0	0	85	77	25	117	0.47
		AI	22.88998	5.29002	4.327	0.00002	10000+					
		PETmy	0.01471	0.00328	4.485	0.00001	1.01482					
		AI*PETmy	-0.01863	0.00487	-3.827	0.00013	0.98154					
	AI x T	Intercept	-21.11043	4.48241	-4.71	0	0	85	82	25	117	0.5
		AI	26.43616	6.21016	4.257	0.00002	10000+					
		Tmy	1.16708	0.25787	4.526	0.00001	3.21258					
		AI*Tmy	-1.4318	0.36744	-3.897	0.0001	0.23888					
	AI x P	Intercept	-1.38474	1.16002	-1.194	0.23259	0.25039	85	60	26	117	0.13
		AI	0.04467	2.08755	0.021	0.98293	1.04568					
		Pmy	0.00161	0.0026	0.62	0.53534	1.00161					
		AI*Pmy	0.00104	0.00293	0.355	0.72288	1.00104					
	AI x NPP	Intercept	-1.2413	1.43474	-0.865	0.38694	0.28901	85	60	25	117	0.13
		AI	-0.63803	2.74998	-0.232	0.81653	0.52833					
		NPP_lim	0.00074	0.00183	0.404	0.68588	1.00074					
		AI*NPP_lim	0.00148	0.00247	0.597	0.55063	1.00148					
	PET x T	Intercept	32.73524	7.66286	4.272	0.00002	10000+	67	87	20	117	0.51
		PETmy	-0.04424	0.00938	-4.719	0	0.95672					
		Tmy	-1.70527	0.42611	-4.002	0.00006	0.18172					
		PETmy*Tmy	0.00239	0.00051	4.71	0	1.00239					
	PET x P	Intercept	-8.17396	3.45187	-2.368	0.01789	0.00028	88	65	26	117	0.17
		PETmy	0.00565	0.00297	1.904	0.05693	1.00567					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Pmy	0.01223	0.00565	2.164	0.03045	1.01231					
		PETmy*Pmy	-0.00001	0	-1.654	0.09808	0.99999					
	PET x NPP	Intercept	-10.40516	4.24305	-2.452	0.0142	0.00003	88	64	25	117	0.16
		PETmy	0.00722	0.00366	1.972	0.04863	1.00724					
		NPP_lim	0.00993	0.0043	2.308	0.02101	1.00998					
		PETmy*NPP_lim	-0.00001	0	-1.777	0.07557	0.99999					
	T x P	Intercept	-18.30003	5.30449	-3.45	0.00056	0	88	71	26	117	0.25
		Tmy	0.97903	0.30707	3.188	0.00143	2.66186					
		Pmy	0.03124	0.00959	3.257	0.00112	1.03174					
		Tmy*Pmy	-0.00165	0.00055	-2.993	0.00276	0.99835					
	T x NPP	Intercept	-24.97476	7.08014	-3.527	0.00042	0	88	71	25	117	0.26
		Tmy	1.33891	0.40734	3.287	0.00101	3.81488					
		NPP_lim	0.02631	0.00777	3.384	0.00072	1.02665					
		Tmy*NPP_lim	-0.0014	0.00045	-3.135	0.00172	0.9986					
	P x NPP	Intercept	QS					88	54	24	117	0.15
		Pmy	QS									
		NPP_lim	QS									
		Pmy*NPP_lim	QS									

Table 8. Logistic regression models of the effect of soil texture fractions on the scores of the visual soil quality indicators for **acid soils**. Models with one predictor. %CP percentage of correct predictions.

							1	2			
VISUAL INDICATOR	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	Intercept	0.84040	0.45134	1.862	0.063	2.31730	61	53	110	117	0.02
	Sand	-0.01792	0.00978	-1.831	0.067	0.98224					
	Intercept	-0.48713	0.41006	-1.188	0.235	0.61439	58	40	107	117	0.01
	Silt	0.01249	0.01038	1.202	0.229	1.01256					
	Intercept	-0.29589	0.22944	-1.290	0.197	0.74387	61	40	102	117	0.01
	Clay	0.02125	0.01613	1.318	0.188	1.02148					
POR	Intercept	-0.31102	0.43625	-0.713	0.476	0.73270	51	59	110	117	0
	Sand	0.00653	0.00918	0.711	0.477	1.00655					
	Intercept	-0.13677	0.38945	-0.351	0.725	0.87217	58	45	108	117	0
	Silt	0.00355	0.01013	0.351	0.726	1.00356					
	Intercept	0.39315	0.22498	1.747	0.081	1.48164	40	61	102	117	0.02
	Clay	-0.02866	0.01627	-1.762	0.078	0.97175					
STA	Intercept	1.33060	0.47712	2.789	0.005	3.78333	68	63	110	116	0.05
	Sand	-0.02885	0.01069	-2.698	0.007	0.97156					
	Intercept	-1.51913	0.48398	-3.139	0.002	0.21890	71	63	109	116	0.08
	Silt	0.03770	0.01152	3.272	0.001	1.03842					
	Intercept	0.12756	0.22554	0.566	0.572	1.13605	47	70	102	116	0
	Clay	-0.00967	0.01736	-0.557	0.578	0.99038					
PAN	Intercept	-0.45014	0.4452	-1.011	0.312	0.63754	52	59	109	117	0.01
	Sand	0.00937	0.00922	1.016	0.309	1.00942					
	Intercept	0.33048	0.39164	0.844	0.399	1.39163	47	61	108	117	0
	Silt	-0.00862	0.01026	-0.840	0.401	0.99142					
	Intercept	0.09824	0.21623	0.454	0.650	1.10322	41	63	102	117	0
	Clay	-0.00724	0.01602	-0.452	0.651	0.99279					
COL	Intercept	-0.21324	0.43515	-0.490	0.624	0.80797	43	51	110	117	0
	Sand	0.00446	0.0091	0.490	0.624	1.00447					
	Intercept	-1.25024	0.42635	-2.932	0.003	0.28643	73	61	107	117	0.06
	Silt	0.03249	0.01107	2.936	0.003	1.03302					
	Intercept	**1.63216**	**0.32881**	**4.964**	**0.000**	**5.11492**	67	79	101	117	0.24
	Clay	**-0.13357**	**0.02858**	**-4.673**	**0.000**	**0.87497**					
EAR	Intercept	-1.69251	0.52946	-3.197	0.001	0.18406	63	54	110	117	0.08
	Sand	0.03449	0.01049	3.286	0.001	1.03509					
	Intercept	1.14460	0.41763	2.741	0.006	3.14118	65	52	107	117	0.05
	Silt	-0.03065	0.0115	-2.666	0.008	0.96981					

							1	2			
VISUAL INDICATOR	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	Intercept	0.37933	0.22067	1.719	0.086	1.46131	57	41	102	117	0.02
	Clay	-0.02888	0.01739	-1.660	0.097	0.97153					
ERO	Intercept	1.40821	0.61554	2.288	0.022	4.08864	58	56	111	117	0.05
	Sand	-0.02769	0.01142	-2.424	0.015	0.97269					
	Intercept	-0.43568	0.45689	-0.954	0.340	0.64682	58	46	109	117	0.01
	Silt	0.01163	0.01254	0.927	0.354	1.01169					
	Intercept	-0.83957	0.2571	-3.266	0.001	0.43189	69	54	102	117	0.08
	Clay	0.07643	0.02829	2.702	0.007	1.07942					
PON	Intercept	1.38857	0.77658	1.788	0.074	4.00912	47	60	92	98	0.04
	Sand	-0.02590	0.01363	-1.901	0.057	0.97443					
	Intercept	-1.53499	0.51783	-2.964	0.003	0.21546	76	60	91	98	0.09
	Silt	0.04465	0.01716	2.602	0.009	1.04566					
	Intercept	0.54813	0.36448	1.504	0.133	1.73002	47	64	84	98	0.03
	Clay	-0.04832	0.02914	-1.658	0.097	0.95282					

Table 9. Logistic regression models of the effect of soil texture fractions on the scores of the visual soil quality indicators for **alkaline soils**. Models with one predictor. %CP percentage of correct predictions.

							1	2			
VISUAL INDICATOR	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	Intercept	-0.43246	0.43627	-0.991	0.322	0.64891	56	50	98	110	0.01
	Sand	0.00973	0.00972	1.001	0.317	1.00978					
	Intercept	0.31630	0.40379	0.783	0.433	1.37204	45	59	98	110	0
	Silt	-0.00877	0.01128	-0.777	0.437	0.99127					
	Intercept	0.12116	0.28128	0.431	0.667	1.12881	48	66	97	110	0
	Clay	-0.00626	0.01462	-0.428	0.669	0.99376					
POR	Intercept	-0.56574	0.44705	-1.265	0.206	0.56794	60	57	99	110	0.01
	Sand	0.01267	0.00987	1.284	0.199	1.01275					
	Intercept	0.57673	0.41017	1.406	0.160	1.78021	49	60	97	110	0.01
	Silt	-0.01615	0.01168	-1.382	0.167	0.98398					
	Intercept	0.01652	0.28419	0.058	0.954	1.01666	43	57	95	110	0
	Clay	-0.00085	0.01462	-0.058	0.954	0.99915					
STA	Intercept	0.08127	0.46361	0.175	0.861	1.08466	50	63	98	110	0
	Sand	-0.00185	0.01061	-0.175	0.861	0.99815					
	Intercept	-0.50974	0.46042	-1.107	0.268	0.60065	63	57	95	110	0.01
	Silt	0.01367	0.01204	1.135	0.256	1.01377					
	Intercept	0.37417	0.3056	1.224	0.221	1.45378	46	67	94	110	0.01
	Clay	-0.02008	0.01712	-1.173	0.241	0.98012					
PAN	Intercept	-1.90748	0.54665	-3.489	0.000	0.14845	69	64	99	110	0.11
	Sand	0.04158	0.01141	3.643	0.000	1.04246					
	Intercept	1.10614	0.42812	2.584	0.010	3.02266	53	62	96	110	0.05
	Silt	-0.03155	0.01262	-2.499	0.012	0.96894					
	Intercept	0.70927	0.29462	2.407	0.016	2.03250	50	69	95	110	0.04
	Clay	-0.03830	0.01664	-2.301	0.021	0.96242					
COL	Intercept	-0.11274	0.45806	-0.246	0.806	0.89339	56	52	98	110	0
	Sand	0.00255	0.0103	0.247	0.805	1.00255					
	Intercept	0.08810	0.4304	0.205	0.838	1.09210	44	58	97	110	0
	Silt	-0.00243	0.01194	-0.204	0.838	0.99757					
	Intercept	0.04053	0.30063	0.135	0.893	1.04136	43	58	94	110	0
	Clay	-0.00209	0.01556	-0.134	0.893	0.99791					
EAR	Intercept	-0.45060	0.41959	-1.074	0.283	0.63724	52	60	99	110	0.01
	Sand	0.01026	0.00957	1.072	0.284	1.01031					
	Intercept	1.18002	0.43112	2.737	0.006	3.25443	62	50	98	110	0.06
	Silt	-0.03245	0.01184	-2.742	0.006	0.96807					

							1	2			
VISUAL INDICATOR	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	Intercept	-0.58901	0.28823	-2.044	0.041	0.55488	50	65	95	110	0.03
	Clay	0.03070	0.01521	2.018	0.044	1.03118					
ERO	Intercept	0.16863	0.44891	0.376	0.707	1.18368	50	55	99	110	0
	Sand	-0.00380	0.01007	-0.378	0.705	0.99620					
	Intercept	-0.66147	0.4238	-1.561	0.119	0.51609	53	47	97	110	0.02
	Silt	0.01873	0.01234	1.518	0.129	1.01890					
	Intercept	0.41132	0.30894	1.331	0.183	1.50880	53	66	94	110	0.01
	Clay	-0.02050	0.01495	-1.371	0.170	0.97970					
PON	Intercept	-0.90541	0.45569	-1.987	0.047	0.40437	55	57	95	105	0.03
	Sand	0.02183	0.01147	1.904	0.057	1.02207					
	Intercept	-0.56900	0.45072	-1.262	0.207	0.56609	59	49	91	105	0.01
	Silt	0.01592	0.013	1.225	0.221	1.01604					
	Intercept	1.62026	0.45036	3.598	0.000	5.05438	72	72	90	105	0.16
	Clay	-0.07398	0.01867	-3.962	0.000	0.92869					

Table 10. Logistic regression models of the effect of soil texture fraction interactions on the scores of the visual soil quality indicators for **acid soils**. Models with two explanatory variables and an interaction term (the product of the two variables). %CP percentage of correct predictions.

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	SAND x SILT	Intercept	1.88803	1.50272	1.256	0.20897	6.60637	50	71	110	117	0.03
		Sand	-0.03426	0.02247	-1.525	0.12737	0.96632					
		Silt	-0.0209	0.02543	-0.822	0.41106	0.97931					
		Sand*Silt	0.00035	0.00056	0.616	0.53798	1.00035					
	SAND x CLAY	Intercept	1.05341	0.75162	1.402	0.16106	2.86742	47	64	110	117	0.04
		Sand	-0.02814	0.01508	-1.866	0.06207	0.97225					
		Clay	-0.03421	0.03746	-0.913	0.36118	0.96637					
		Sand*Clay	0.00132	0.00099	1.34	0.18015	1.00132					
	SILT x CLAY	Intercept	-1.5377	0.75384	-2.04	0.04137	0.21488	56	60	110	117	0.03
		Silt	0.03018	0.01689	1.786	0.07404	1.03064					
		Clay	0.08806	0.05593	1.574	0.11542	1.09205					
		Silt*Clay	-0.00173	0.00146	-1.183	0.23684	0.99828					
	SAND x SILT x CLAY	Intercept	1.05341	0.75162	1.402	0.16106	2.86742	47	64	110	117	0.04
		Clay	-0.03421	0.03746	-0.913	0.36118	0.96637					
		Sand	-0.02814	0.01508	-1.866	0.06207	0.97225					
		Clay*Sand	0.00132	0.00099	1.34	0.18015	1.00132					
POR	SAND x SILT	Intercept	-2.72696	1.48647	-1.835	0.06658	0.06542	42	64	110	117	0.02
		Sand	0.03507	0.02071	1.693	0.09036	1.03569					
		Silt	0.03842	0.02475	1.552	0.12057	1.03917					
		Sand*Silt	-0.00028	0.00052	-0.536	0.59197	0.99972					
	SAND x CLAY	Intercept	0.76001	0.70999	1.07	0.28442	2.1383	32	67	110	117	0.03
		Clay	-0.06312	0.03719	-1.697	0.08962	0.93883					
		Sand	-0.00892	0.01267	-0.704	0.48116	0.99112					
		Clay*Sand	0.00096	0.00091	1.059	0.28956	1.00096					
	SILT x CLAY	Intercept	0.37351	0.64003	0.584	0.5595	1.45282	38	63	110	117	0.02
		Silt	0.0004	0.01527	0.026	0.97902	1.0004					
		Clay	-0.03129	0.05191	-0.603	0.54663	0.96919					
		Silt*Clay	0.00008	0.00139	0.058	0.95346	1.00008					
	SAND x SILT x CLAY	Intercept	-218.075	832.9883	-0.262	0.79348	0	43	59	110	117	0.02
		Silt	2.18531	8.32994	0.262	0.79306	8.89341					
		Clay	2.1557	8.32943	0.259	0.79579	8.63394					
		Sand	2.18443	8.33059	0.262	0.79315	8.88556					

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STA	SAND x SILT	Intercept	-2.43068	1.6421	-1.48	0.13881	0.08798	80	48	110	116	0.1
		Sand	0.02588	0.02244	1.153	0.24889	1.02621					
		Silt	0.07082	0.02724	2.6	0.00933	1.07339					
		Sand*Silt	-0.00103	0.00056	-1.843	0.06539	0.99897					
	SAND x CLAY	Intercept	1.24937	0.7148	1.748	0.08049	3.48813	61	78	110	116	0.17
		Sand	-0.00988	0.01297	-0.761	0.44644	0.99017					
		Clay	0.09163	0.04253	2.154	0.03123	1.09595					
		Sand*Clay	-0.0041	0.00123	-3.332	0.00086	0.99591					
	SILT x CLAY	Intercept	-0.50443	0.71209	-0.708	0.47871	0.60385	68	65	110	116	0.11
		Silt	0.01145	0.01627	0.704	0.4816	1.01152					
		Clay	-0.12599	0.06375	-1.976	0.04811	0.88162					
		Silt*Clay	0.00341	0.00165	2.067	0.0387	1.00341					
	SAND x SILT x CLAY	Intercept	-0.50443	0.71209	-0.708	0.47871	0.60385	68	65	110	116	0.11
		Silt	0.01145	0.01627	0.704	0.4816	1.01152					
		Clay	-0.12599	0.06375	-1.976	0.04811	0.88162					
		Silt*Clay	0.00341	0.00165	2.067	0.0387	1.00341					
PAN	SAND x SILT	Intercept	0.78809	1.52865	0.516	0.60617	2.19919	48	73	110	117	0.05
		Sand	-0.02486	0.02158	-1.152	0.24934	0.97545					
		Silt	-0.04817	0.02672	-1.803	0.07143	0.95297					
		Sand*Silt	0.00145	0.00056	2.593	0.00951	1.00145					
	SAND x CLAY	Intercept	-0.00778	0.70928	-0.011	0.99124	0.99225	61	53	110	117	0.02
		Clay	-0.05037	0.03822	-1.318	0.18745	0.95087					
		Sand	-0.00211	0.01277	-0.165	0.86894	0.9979					
		Clay*Sand	0.00144	0.00093	1.543	0.12278	1.00144					
	SILT x CLAY	Intercept	-0.76824	0.66549	-1.154	0.24834	0.46383	53	71	110	117	0.06
		Silt	0.02505	0.01615	1.551	0.12096	1.02536					
		Clay	0.1524	0.05976	2.55	0.01077	1.16462					
		Silt*Clay	-0.00468	0.00169	-2.764	0.00572	0.99533					
	SAND x SILT x CLAY	Intercept	-0.00778	0.70928	-0.011	0.99124	0.99225	61	53	110	117	0.02
		Clay	-0.05037	0.03822	-1.318	0.18745	0.95087					
		Sand	-0.00211	0.01277	-0.165	0.86894	0.9979					
		Clay*Sand	0.00144	0.00093	1.543	0.12278	1.00144					
COL	SAND x SILT	Intercept	-12.42	2.63174	-4.719	0	0	70	82	110	117	0.27
		Sand	0.1303	0.03093	4.213	0.00003	1.13917					
		Silt	0.1595	0.03608	4.42	0.00001	1.17292					

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Sand*Silt	-0.00008	0.00058	-0.142	0.88672	0.99992					
	SAND x CLAY	Intercept	3.28919	0.97574	3.371	0.00075	26.82117	70	82	110	117	0.27
		Sand	-0.02761	0.01574	-1.754	0.07945	0.97277					
		Clay	-0.15264	0.06675	-2.287	0.02222	0.85844					
		Sand*Clay	-0.0001	0.00133	-0.073	0.94213	0.9999					
	SILT x CLAY	Intercept	-0.54795	0.75414	-0.727	0.46748	0.57813	78	74	110	117	0.3
		Silt	0.06435	0.0232	2.774	0.00554	1.06647					
		Clay	0.00134	0.06961	0.019	0.98466	1.00134					
		Silt*Clay	-0.00422	0.00219	-1.921	0.05469	0.99579					
	SAND x SILT x CLAY	Intercept	-0.54795	0.75414	-0.727	0.46748	0.57813	78	74	110	117	0.3
		Silt	0.06435	0.0232	2.774	0.00554	1.06647					
		Clay	0.00134	0.06961	0.019	0.98466	1.00134					
		Silt*Clay	-0.00422	0.00219	-1.921	0.05469	0.99579					
EAR	SAND x SILT	Intercept	-3.66973	1.78183	-2.06	0.03944	0.02548	48	82	110	117	0.13
		Sand	0.08457	0.02803	3.017	0.00255	1.08825					
		Silt	0.06176	0.02944	2.098	0.03591	1.0637					
		Sand*Silt	-0.00178	0.00067	-2.634	0.00845	0.99822					
	SAND x CLAY	Intercept	-1.34364	0.8025	-1.674	0.09407	0.2609	67	52	110	117	0.08
		Sand	0.0272	0.01395	1.95	0.05123	1.02758					
		Clay	-0.03378	0.04487	-0.753	0.45162	0.96679					
		Sand*Clay	0.00081	0.00103	0.782	0.43404	1.00081					
	SILT x CLAY	Intercept	1.89785	0.70986	2.674	0.00751	6.67153	57	54	110	117	0.08
		Clay	-0.05389	0.05841	-0.923	0.35619	0.94753					
		Silt	-0.03748	0.01734	-2.162	0.03066	0.96321					
		Clay*Silt	0.00049	0.0016	0.307	0.75882	1.00049					
	SAND x SILT x CLAY	Intercept	-3.66973	1.78183	-2.06	0.03944	0.02548	48	82	110	117	0.13
		Silt	0.06176	0.02944	2.098	0.03591	1.0637					
		Sand	0.08457	0.02803	3.017	0.00255	1.08825					
		Silt*Sand	-0.00178	0.00067	-2.634	0.00845	0.99822					
ERO	SAND x SILT	Intercept	6.88619	2.58547	2.663	0.00774	978.6615	73	64	111	117	0.11
		Silt	-0.08548	0.03431	-2.492	0.01272	0.91807					
		Sand	-0.09285	0.03039	-3.055	0.00225	0.91133					
		Silt*Sand	0.00069	0.00058	1.19	0.23413	1.00069					
	SAND x CLAY	Intercept	-0.0397	0.88301	-0.045	0.96414	0.96108	58	53	111	117	0.1
		Clay	0.08456	0.07699	1.098	0.27208	1.08824					
		Sand	-0.01303	0.01471	-0.886	0.3757	0.98705					

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Clay*Sand	-0.00045	0.00153	-0.291	0.7708	0.99955					
	SILT x CLAY	Intercept	-1.50244	0.6721	-2.235	0.02539	0.22259	54	56	111	117	0.09
		Clay	0.08566	0.07188	1.192	0.23335	1.08944					
		Silt	0.01653	0.01702	0.971	0.3313	1.01667					
		Clay*Silt	-0.00018	0.00201	-0.088	0.93015	0.99982					
	SAND x SILT x CLAY	Intercept	1350.085	1278.513	1.056	0.29098	10000+	62	57	111	117	0.11
		Clay	-13.4352	12.78399	-1.051	0.29328	0					
		Sand	-13.5163	12.78562	-1.057	0.29044	0					
		Silt	-13.5	12.78496	-1.056	0.291	0					
PON	SAND x SILT	Intercept	-5.83728	3.13381	-1.863	0.06251	0.00292	82	74	93	98	0.33
		Silt	0.01126	0.04012	0.281	0.77893	1.01133					
		Sand	0.00706	0.03376	0.209	0.83433	1.00709					
		Silt*Sand	0.00366	0.00099	3.7	0.00022	1.00366					
	SAND x CLAY	Intercept	7.52705	2.02586	3.715	0.0002	1857.626	76	89	93	98	0.32
		Sand	-0.10907	0.02722	-4.007	0.00006	0.89667					
		Clay	-0.50485	0.14413	-3.503	0.00046	0.6036					
		Sand*Clay	0.008	0.00251	3.189	0.00143	1.00804					
	SILT x CLAY	Intercept	-2.83976	0.85033	-3.34	0.00084	0.05844	88	65	93	98	0.23
		Silt	0.11846	0.03531	3.354	0.0008	1.12576					
		Clay	0.15644	0.07484	2.09	0.03659	1.16934					
		Silt*Clay	-0.00712	0.00267	-2.663	0.00775	0.99291					
	SAND x SILT x CLAY	Intercept	-2.83976	0.85033	-3.34	0.00084	0.05844	88	65	93	98	0.23
		Clay	0.15644	0.07484	2.09	0.03659	1.16934					
		Silt	0.11846	0.03531	3.354	0.0008	1.12576					
		Clay*Silt	-0.00712	0.00267	-2.663	0.00775	0.99291					

Table 11. Logistic regression models of the effect of soil texture fraction interactions on the scores of the visual soil quality indicators for **alkaline soils**. Models with two explanatory variables and an interaction term (the product of the two variables). %CP percentage of correct predictions.

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	SAND x SILT	Intercept	-0.3954	1.36163	-0.29	0.77152	0.67341	58	50	101	110	0.01
		Sand	0.00949	0.02243	0.423	0.67225	1.00954					
		Silt	-0.00042	0.02751	-0.015	0.98772	0.99958					
		Sand*Silt	-0.00001	0.00065	-0.013	0.98983	0.99999					
	SAND x CLAY	Intercept	-1.16526	0.85058	-1.37	0.1707	0.31184	73	59	101	110	0.03
		Sand	0.0313	0.01707	1.833	0.06673	1.03179					
		Clay	0.03934	0.02801	1.405	0.16012	1.04012					
		Sand*Clay	-0.00138	0.00082	-1.675	0.09399	0.99862					
	SILT x CLAY	Intercept	1.45123	0.87057	1.667	0.09551	4.26838	58	66	101	110	0.02
		Silt	-0.03281	0.02035	-1.613	0.10682	0.96772					
		Clay	-0.07865	0.05372	-1.464	0.14316	0.92436					
		Silt*Clay	0.00189	0.00138	1.376	0.16882	1.0019					
	SAND x SILT x CLAY	Intercept	-1.16526	0.85058	-1.37	0.1707	0.31184	73	59	101	110	0.03
		Clay	0.03934	0.02801	1.405	0.16012	1.04012					
		Sand	0.0313	0.01707	1.833	0.06673	1.03179					
		Clay*Sand	-0.00138	0.00082	-1.675	0.09399	0.99862					
POR	SAND x SILT	Intercept	1.66184	1.49161	1.114	0.26523	5.26899	40	76	102	110	0.04
		Silt	-0.06063	0.03362	-1.804	0.0713	0.94117					
		Sand	-0.03097	0.02519	-1.23	0.2188	0.9695					
		Silt*Sand	0.00139	0.00077	1.813	0.06978	1.00139					
	SAND x CLAY	Intercept	-1.05166	0.87905	-1.196	0.23156	0.34936	53	57	102	110	0.02
		Clay	0.01458	0.02882	0.506	0.61293	1.01469					
		Sand	0.01809	0.01708	1.059	0.28959	1.01825					
		Clay*Sand	-0.00006	0.00082	-0.068	0.94546	0.99994					
	SILT x CLAY	Intercept	1.31677	0.86213	1.527	0.12668	3.73133	57	69	102	110	0.02
		Clay	-0.05215	0.05246	-0.994	0.32013	0.94918					
		Silt	-0.03262	0.02059	-1.584	0.11314	0.96791					
		Clay*Silt	0.00131	0.00136	0.958	0.33783	1.00131					
	SAND x SILT x CLAY	Intercept	1.66184	1.49161	1.114	0.26523	5.26899	40	76	102	110	0.04
		Silt	-0.06063	0.03362	-1.804	0.0713	0.94117					
		Sand	-0.03097	0.02519	-1.23	0.2188	0.9695					
		Silt*Sand	0.00139	0.00077	1.813	0.06978	1.00139					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STA	SAND x SILT	Intercept	-1.58679	1.56382	-1.015	0.31025	0.20458	66	50	101	110	0.02
		Silt	0.0216	0.02972	0.727	0.4673	1.02184					
		Sand	0.01186	0.02564	0.463	0.64361	1.01193					
		Silt*Sand	0.00019	0.0007	0.272	0.78554	1.00019					
	SAND x CLAY	Intercept	0.96744	0.86801	1.115	0.26504	2.63121	68	37	101	110	0.02
		Clay	-0.02651	0.03235	-0.82	0.41246	0.97384					
		Sand	-0.01005	0.01823	-0.551	0.58131	0.99					
		Clay*Sand	-0.00004	0.00094	-0.045	0.96373	0.99996					
	SILT x CLAY	Intercept	-0.01866	0.96336	-0.019	0.98455	0.98151	68	43	101	110	0.02
		Clay	-0.02255	0.06023	-0.374	0.70811	0.9777					
		Silt	0.00915	0.02162	0.423	0.67207	1.00919					
		Clay*Silt	0.00015	0.00153	0.1	0.92054	1.00015					
	SAND x SILT x CLAY	Intercept	-18.911	43.25883	-0.437	0.662	0	68	40	101	110	0.02
		Clay	0.17282	0.43474	0.398	0.69098	1.18865					
		Silt	0.19885	0.4323	0.46	0.64552	1.22					
		Sand	0.18809	0.43252	0.435	0.66366	1.20694					
PAN	SAND x SILT	Intercept	-2.81424	1.65194	-1.704	0.08846	0.05995	71	64	101	110	0.11
		Silt	0.01403	0.03221	0.436	0.66319	1.01413					
		Sand	0.05151	0.02625	1.962	0.04972	1.05286					
		Silt*Sand	-0.00004	0.00074	-0.048	0.96163	0.99996					
	SAND x CLAY	Intercept	-1.3605	0.97808	-1.391	0.16423	0.25653	66	64	101	110	0.11
		Clay	-0.02275	0.04064	-0.56	0.57557	0.97751					
		Sand	0.03344	0.01944	1.72	0.0854	1.034					
		Clay*Sand	0.00033	0.00105	0.31	0.75632	1.00033					
	SILT x CLAY	Intercept	2.95266	1.00002	2.953	0.00315	19.15688	75	64	101	110	0.11
		Clay	-0.10336	0.06271	-1.648	0.09932	0.9018					
		Silt	-0.05449	0.02298	-2.371	0.01773	0.94697					
		Clay*Silt	0.00146	0.00161	0.905	0.3653	1.00146					
	SAND x SILT x CLAY	Intercept	-57.1127	93.47812	-0.611	0.54122	0	71	64	101	110	0.12
		Silt	0.5555	0.93438	0.595	0.55217	1.74281					
		Sand	0.59397	0.93514	0.635	0.52532	1.81116					
		Clay	0.5456	0.9353	0.583	0.55967	1.72564					
COL	SAND x SILT	Intercept	0.18487	1.45032	0.127	0.89857	1.20306	34	70	102	110	0
		Silt	-0.00908	0.02968	-0.306	0.7597	0.99096					
		Sand	-0.00453	0.02422	-0.187	0.85155	0.99548					
		Silt*Sand	0.00026	0.0007	0.366	0.71462	1.00026					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	SAND x CLAY	Intercept	-0.50356	0.88093	-0.572	0.56757	0.60437	61	48	102	110	0.01
		Clay	0.02222	0.02876	0.773	0.43967	1.02247					
		Sand	0.01495	0.01741	0.858	0.39073	1.01506					
		Clay*Sand	-0.00083	0.00084	-0.985	0.32486	0.99917					
	SILT x CLAY	Intercept	-0.40834	0.90316	-0.452	0.65118	0.66475	52	52	102	110	0.01
		Clay	0.03982	0.05454	0.73	0.46534	1.04062					
		Silt	0.01117	0.02098	0.533	0.59429	1.01124					
		Clay*Silt	-0.00117	0.00145	-0.808	0.41919	0.99883					
	SAND x SILT x CLAY	Intercept	10.10619	21.94428	0.461	0.64513	10000+	58	48	102	110	0
		Silt	-0.10208	0.21916	-0.466	0.64137	0.90296					
		Sand	-0.09937	0.219	-0.454	0.65001	0.90541					
		Clay	-0.10371	0.2234	-0.464	0.64248	0.90148					
EAR	SAND x SILT	Intercept	2.19741	1.42353	1.544	0.12268	9.00171	67	50	102	110	0.08
		Silt	-0.02814	0.02856	-0.986	0.32433	0.97225					
		Sand	-0.00345	0.02396	-0.144	0.88556	0.99656					
		Silt*Sand	-0.00076	0.00069	-1.105	0.26913	0.99924					
	SAND x CLAY	Intercept	-2.39747	0.90764	-2.641	0.00826	0.09095	72	50	102	110	0.07
		Clay	0.05542	0.02969	1.867	0.06193	1.05698					
		Sand	0.03014	0.01751	1.721	0.08521	1.0306					
		Clay*Sand	-0.00002	0.00083	-0.026	0.97915	0.99998					
	SILT x CLAY	Intercept	1.84732	0.90358	2.044	0.04091	6.3428	84	44	102	110	0.09
		Clay	-0.0683	0.05365	-1.273	0.203	0.93398					
		Silt	-0.06162	0.02217	-2.779	0.00545	0.94024					
		Clay*Silt	0.00256	0.00145	1.768	0.07705	1.00256					
	SAND x SILT x CLAY	Intercept	1.84732	0.90358	2.044	0.04091	6.3428	84	44	102	110	0.09
		Clay	-0.0683	0.05365	-1.273	0.203	0.93398					
		Silt	-0.06162	0.02217	-2.779	0.00545	0.94024					
		Clay*Silt	0.00256	0.00145	1.768	0.07705	1.00256					
ERO	SAND x SILT	Intercept	-6.46354	2.08552	-3.099	0.00194	0.00156	75	51	101	110	0.13
		Silt	0.17753	0.05607	3.166	0.00154	1.19426					
		Sand	0.11878	0.0389	3.054	0.00226	1.12612					
		Silt*Sand	-0.00368	0.00124	-2.963	0.00305	0.99633					
	SAND x CLAY	Intercept	0.70306	0.97977	0.718	0.47302	2.01992	69	55	101	110	0.05
		Clay	0.00639	0.03202	0.199	0.84196	1.00641					
		Sand	0.0069	0.01936	0.356	0.72166	1.00692					
		Clay*Sand	-0.00151	0.00091	-1.652	0.0986	0.99849					
	SILT x CLAY	Intercept	0.43807	0.90239	0.485	0.62735	1.54972	53	55	101	110	0.03

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Clay	-0.06818	0.05376	-1.268	0.20477	0.9341					
		Silt	-0.00016	0.02165	-0.007	0.9942	0.99984					
		Clay*Silt	0.00139	0.00143	0.976	0.32882	1.00139					
	SAND x SILT x CLAY	Intercept	-6.46354	2.08552	-3.099	0.00194	0.00156	75	51	101	110	0.13
		Silt	0.17753	0.05607	3.166	0.00154	1.19426					
		Sand	0.11878	0.0389	3.054	0.00226	1.12612					
		Silt*Sand	-0.00368	0.00124	-2.963	0.00305	0.99633					
PON	SAND x SILT	Intercept	-8.61227	2.23635	-3.851	0.00012	0.00018	76	67	97	105	0.2
		Silt	0.16336	0.05354	3.051	0.00228	1.17746					
		Sand	0.136	0.04211	3.23	0.00124	1.14568					
		Silt*Sand	-0.00224	0.0012	-1.873	0.06101	0.99776					
	SAND x CLAY	Intercept	1.75783	1.27906	1.374	0.16934	5.79985	76	74	97	105	0.17
		Clay	-0.0575	0.03567	-1.612	0.10698	0.94412					
		Sand	0.00715	0.02502	0.286	0.77518	1.00717					
		Clay*Sand	-0.00099	0.001	-0.99	0.32219	0.99901					
	SILT x CLAY	Intercept	2.47198	1.28528	1.923	0.05444	11.84589	72	78	97	105	0.17
		Clay	-0.1514	0.06675	-2.268	0.02332	0.8595					
		Silt	-0.01954	0.02883	-0.678	0.49789	0.98065					
		Clay*Silt	0.00207	0.00164	1.259	0.20816	1.00207					
	SAND x SILT x CLAY	Intercept	1.75783	1.27906	1.374	0.16934	5.79985	76	74	97	105	0.17
		Clay	-0.0575	0.03567	-1.612	0.10698	0.94412					
		Sand	0.00715	0.02502	0.286	0.77518	1.00717					
		Clay*Sand	-0.00099	0.001	-0.99	0.32219	0.99901					

Table 12. Logistic regression models of the effect of soil manageable properties on the scores of the visual soil quality indicators for **acid soils**. Models with one predictor. %CP percentage of correct predictions.

							1	2			
VISUAL INDICATOR	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	Intercept	0.06684	0.36142	0.185	0.853	1.06913	45	71	67	78	0
	SOM	-0.02831	0.15315	-0.185	0.853	0.97209					
	Intercept	-0.38210	0.17293	-2.210	0.027	0.68243	77	50	102	125	0.04
	LOC	0.17559	0.07802	2.251	0.024	1.19195					
	Intercept	-0.61138	1.59082	-0.384	0.701	0.54260	42	57	96	131	0
	pH	0.10015	0.26041	0.385	0.701	1.10534					
	Intercept	0.37566	0.47943	0.784	0.433	1.45595	54	53	90	97	0
	PR	-0.17207	0.2222	-0.774	0.439	0.84192					
POR	Intercept	-1.04578	0.45039	-2.322	0.020	0.35142	78	52	64	78	0.06
	SOM	0.45978	0.20407	2.253	0.024	1.58372					
	Intercept	-0.04013	0.1615	-0.249	0.804	0.96066	70	39	102	125	0
	LOC	0.01867	0.07508	0.249	0.804	1.01884					
	Intercept	-0.00778	1.55793	-0.005	0.996	0.99225	38	54	93	131	0
	pH	0.00127	0.25539	0.005	0.996	1.00128					
	Intercept	0.49284	0.46684	1.056	0.291	1.63697	54	57	90	97	0.01
	PR	-0.22215	0.20956	-1.060	0.289	0.80080					
STA	Intercept	0.14701	0.38665	0.380	0.704	1.15836	35	58	67	77	0
	SOM	-0.06344	0.1686	-0.376	0.707	0.93853					
	Intercept	0.12608	0.1676	0.752	0.452	1.13437	35	67	102	124	0
	LOC	-0.06161	0.08415	-0.732	0.464	0.94025					
	Intercept	-1.07798	1.69004	-0.638	0.524	0.34028	43	61	91	130	0
	pH	0.17611	0.27548	0.639	0.523	1.19257					
	Intercept	-1.91596	0.59357	-3.228	0.001	0.14720	67	63	89	96	0.11
	PR	0.83820	0.25313	3.311	0.001	2.31219					
PAN	Intercept	-0.52083	0.4321	-1.205	0.228	0.59403	64	37	66	78	0.02
	SOM	0.21100	0.16849	1.252	0.210	1.23492					
	Intercept	0.19520	0.16192	1.206	0.228	1.21556	45	78	102	125	0.01
	LOC	-0.09283	0.07855	-1.182	0.237	0.91135					
	Intercept	-3.05106	1.65761	-1.841	0.066	0.04731	49	67	91	131	0.03
	pH	0.49840	0.26969	1.848	0.065	1.64609					
	Intercept	-0.50033	0.46709	-1.071	0.284	0.60633	59	56	90	97	0.01
	PR	0.22551	0.20966	1.076	0.282	1.25296					
COL	Intercept	0.55679	0.40195	1.385	0.166	1.74505	43	69	66	78	0.02
	SOM	-0.24227	0.17971	-1.348	0.178	0.78485					

							1	2			
VISUAL INDICATOR	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	Intercept	0.76142	0.18011	4.228	0.000	2.14132	52	87	100	125	0.13
	LOC	-0.41358	0.11195	-3.694	0.000	0.66128					
	Intercept	-0.47412	1.56671	-0.303	0.762	0.62244	44	60	91	131	0
	pH	0.07770	0.25669	0.303	0.762	1.08080					
	Intercept	-1.51305	0.52337	-2.891	0.004	0.22024	62	67	89	97	0.07
	PR	0.69882	0.24589	2.842	0.004	2.01138					
EAR	Intercept	-0.88723	0.4527	-1.960	0.050	0.41180	68	79	65	78	0.05
	SOM	0.36244	0.18072	2.006	0.045	1.43683					
	Intercept	0.77183	0.18082	4.268	0.000	2.16373	85	51	100	125	0.13
	LOC	-0.42069	0.11313	-3.719	0.000	0.65660					
	Intercept	-2.04510	1.59582	-1.282	0.200	0.12937	62	45	91	131	0.01
	pH	0.33481	0.26084	1.284	0.199	1.39767					
	Intercept	0.93296	0.48317	1.931	0.053	2.54202	58	61	90	97	0.03
	PR	-0.42848	0.22498	-1.905	0.057	0.65150					
ERO	Intercept	-0.62406	0.44448	-1.404	0.160	0.53577	68	48	68	78	0.02
	SOM	0.28014	0.21051	1.331	0.183	1.32332					
	Intercept	-0.35063	0.18451	-1.900	0.057	0.70424	85	40	102	125	0.03
	LOC	0.19002	0.1162	1.635	0.102	1.20928					
	Intercept	-2.23332	1.81774	-1.229	0.219	0.10717	52	63	90	131	0.01
	pH	0.36899	0.30266	1.219	0.223	1.44627					
	Intercept	0.12787	0.55486	0.230	0.818	1.13640	52	54	90	97	0
	PR	-0.05747	0.24761	-0.232	0.816	0.94415					
PON	Intercept	0.44676	0.46098	0.969	0.332	1.56325	69	72	49	59	0.02
	SOM	-0.18179	0.17875	-1.017	0.309	0.83378					
	Intercept	-0.53655	0.23458	-2.287	0.022	0.58476	93	30	81	106	0.06
	LOC	0.44744	0.28419	1.574	0.115	1.56431					
	Intercept	-4.26835	2.21741	-1.925	0.054	0.01400	48	68	73	112	0.03
	pH	0.69724	0.36709	1.899	0.058	2.00820					
	Intercept	-1.39914	0.68408	-2.045	0.041	0.24681	47	66	72	78	0.05
	PR	0.66777	0.348	1.919	0.055	1.94988					

Table 13. Logistic regression models of the effect of soil manageable properties on the scores of the visual soil quality indicators for **alkaline soils**. Models with one predictor. %CP percentage of correct predictions.

							1	2			
VISUAL INDICATOR	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	Intercept	-0.74355	0.34592	-2.149	0.032	0.47542	73	38	79	95	0.04
	SOM	0.26024	0.11973	2.174	0.030	1.29724					
	Intercept	-0.65434	0.22122	-2.958	0.003	0.51978	87	30	83	122	0.11
	LOC	0.54639	0.19884	2.748	0.006	1.72701					
	Intercept	8.36246	3.38402	2.471	0.013	4283.22	55	63	70	122	0.08
	pH	-1.07792	0.43783	-2.462	0.014	0.34030					
	Intercept	0.79657	0.44573	1.787	0.074	2.21792	51	68	74	81	0.03
	PR	-0.30605	0.17813	-1.718	0.086	0.73635					
POR	Intercept	-1.12063	0.38481	-2.912	0.004	0.32608	79	44	78	95	0.09
	SOM	0.38364	0.1281	2.995	0.003	1.46762					
	Intercept	-0.56303	0.20398	-2.760	0.006	0.56948	85	27	83	122	0.09
	LOC	0.45721	0.173	2.643	0.008	1.57966					
	Intercept	11.69939	3.59724	3.252	0.001	10000+	56	64	70	122	0.14
	pH	-1.51130	0.46737	-3.234	0.001	0.22062					
	Intercept	-0.05254	0.44311	-0.119	0.906	0.94882	58	42	76	81	0
	PR	0.01932	0.16251	0.119	0.905	1.01951					
STA	Intercept	-1.10462	0.40356	-2.737	0.006	0.33134	79	46	78	95	0.08
	SOM	0.36726	0.12689	2.894	0.004	1.44378					
	Intercept	-0.13118	0.1696	-0.773	0.439	0.87706	80	20	80	122	0.01
	LOC	0.10378	0.13135	0.790	0.429	1.10935					
	Intercept	6.60735	3.43118	1.926	0.054	740.518	55	65	67	122	0.04
	pH	-0.85194	0.44417	-1.918	0.055	0.42659					
	Intercept	0.84506	0.53505	1.579	0.114	2.32812	50	60	73	81	0.03
	PR	-0.33871	0.23235	-1.458	0.145	0.71269					
PAN	Intercept	-1.35878	0.42422	-3.203	0.001	0.25697	82	52	78	95	0.11
	SOM	0.45112	0.13363	3.376	0.001	1.57008					
	Intercept	-0.26584	0.17136	-1.551	0.121	0.76656	82	22	84	122	0.02
	LOC	0.21096	0.13469	1.566	0.117	1.23487					
	Intercept	18.10185	4.06797	4.450	0.000	10000+	62	73	70	122	0.29
	pH	-2.34475	0.53122	-4.414	0.000	0.09587					
	Intercept	0.99762	0.46687	2.137	0.033	2.71181	57	76	74	81	0.05
	PR	-0.39200	0.19472	-2.013	0.044	0.67571					
COL	Intercept	-1.62747	0.46867	-3.473	0.001	0.19643	83	54	79	95	0.15
	SOM	0.52647	0.14123	3.728	0.000	1.69295					

							1	2			
VISUAL INDICATOR	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	Intercept	-0.34847	0.18465	-1.887	0.059	0.70576	84	20	79	122	0.03
	LOC	0.26646	0.13554	1.966	0.049	1.30534					
	Intercept	18.44778	4.45912	4.137	0.000	10000+	63	66	65	122	0.2
	pH	-2.40093	0.58734	-4.088	0.000	0.09063					
	Intercept	0.47986	0.51331	0.935	0.350	1.61585	48	69	74	81	0.01
	PR	-0.18495	0.2067	-0.895	0.371	0.83114					
EAR	Intercept	-0.61979	0.33214	-1.866	0.062	0.53806	43	75	81	95	0.03
	SOM	0.22182	0.12	1.848	0.065	1.24834					
	Intercept	0.97041	0.30883	3.142	0.002	2.63902	88	39	80	122	0.14
	LOC	-0.92121	0.33607	-2.741	0.006	0.39804					
	Intercept	-4.08605	3.14194	-1.300	0.193	0.017	52	61	71	122	0.02
	pH	0.52502	0.40393	1.300	0.194	1.69050					
	Intercept	-1.66623	0.5018	-3.320	0.001	0.18896	62	76	73	81	0.12
	PR	0.65195	0.20653	3.157	0.002	1.91927					
ERO	Intercept	0.36954	0.34177	1.081	0.280	1.44706	41	73	78	95	0.01
	SOM	-0.12831	0.11617	-1.104	0.269	0.87958					
	Intercept	-0.60633	0.28257	-2.146	0.032	0.54535	76	29	83	122	0.06
	LOC	0.59537	0.32198	1.849	0.064	1.81370					
	Intercept	1.82832	3.34278	0.547	0.584	6.22339	53	57	69	122	0
	pH	-0.23453	0.42829	-0.548	0.584	0.79095					
	Intercept	1.04115	0.49672	2.096	0.036	2.83246	52	71	75	81	0.05
	PR	-0.36632	0.16708	-2.192	0.028	0.69328					
PON	Intercept	-0.64352	0.35949	-1.790	0.073	0.52544	62	43	74	90	0.03
	SOM	0.23761	0.14025	1.694	0.090	1.26821					
	Intercept	-0.48022	0.27873	-1.723	0.085	0.61865	76	29	73	117	0.03
	LOC	0.49040	0.32847	1.493	0.135	1.63296					
	Intercept	16.19544	4.17598	3.878	0.000	10000+	76	69	60	117	0.16
	pH	-2.05376	0.52406	-3.919	0.000	0.12825					
	Intercept	2.32018	0.62627	3.705	0.000	10.17752	55	74	69	76	0.19
	PR	-0.80707	0.2128	-3.793	0.000	0.44616					

Table 14. Logistic regression models of the effect of manageable variables interactions on the scores of the visual soil quality indicators for **acid soils**. Models with two explanatory variables and an interaction term (the product of the two variables). %CP percentage of correct predictions.

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	SOM x LOC	Intercept	-0.39789	0.53129	-0.749	0.45391	0.67174	65	53	66	72	0.02
		OM	0.02659	0.27515	0.097	0.923	1.02695					
		LOC	0.11739	0.15473	0.759	0.44805	1.12455					
		OM*LOC	-0.00395	0.05483	-0.072	0.94256	0.99606					
	SOM x pH	Intercept	-3.27276	3.22723	-1.014	0.31053	0.0379	60	50	74	78	0.02
		OM	0.12403	1.20293	0.103	0.91788	1.13205					
		pH	0.59154	0.54066	1.094	0.27391	1.80676					
		OM*pH	-0.03415	0.19124	-0.179	0.85826	0.96642					
	SOM x PR	Intercept	0.97364	1.84073	0.529	0.59685	2.64756	42	67	54	58	0.02
		OM	-0.09736	0.67995	-0.143	0.88614	0.90723					
		PR	-0.27621	0.77342	-0.357	0.72099	0.75865					
		OM*PR	-0.04945	0.30203	-0.164	0.86996	0.95176					
	LOC x pH	Intercept	-0.29755	2.24139	-0.133	0.89439	0.74263	77	50	119	125	0.03
		LOC	0.14565	0.75395	0.193	0.84681	1.1568					
		pH	-0.01367	0.36212	-0.038	0.96988	0.98642					
		LOC*pH	0.00485	0.1216	0.04	0.96821	1.00486					
	LOC x PR	Intercept	-1.88923	1.00349	-1.883	0.05975	0.15119	77	50	87	91	0.09
		LOC	1.21187	0.45453	2.666	0.00767	3.35975					
		PR	0.52818	0.37404	1.412	0.15792	1.69585					
		LOC*PR	-0.35521	0.16282	-2.182	0.02914	0.70103					
	pH x PR	Intercept	12.44926	5.2915	2.353	0.01864	10000+	71	50	92	97	0.05
		pH	-2.0112	0.88071	-2.284	0.02239	0.13383					
		PR	-5.31623	2.24386	-2.369	0.01782	0.00491					
		pH*PR	0.84611	0.36315	2.33	0.01981	2.33055					
	SOM	Intercept	17.54631	8.38355	2.093	0.03635	10000+	72	74	49	52	0.15
	LOC	pH	-2.93289	1.4771	-1.986	0.04708	0.05324					
	pH	PR	-9.45648	3.9985	-2.365	0.01803	0.00008					
	PR	pH*PR	1.59614	0.71169	2.243	0.02491	4.93394					
POR	SOM x LOC	Intercept	-1.02989	0.64337	-1.601	0.10943	0.35705	67	56	65	72	0.05
		OM	0.67274	0.3844	1.75	0.0801	1.9596					
		LOC	0.03446	0.16437	0.21	0.83396	1.03506					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		OM*LOC	-0.06242	0.06697	-0.932	0.35132	0.93949					
	SOM x pH	Intercept	-4.76036	3.52533	-1.35	0.17691	0.00856	64	60	73	78	0.07
		OM	2.21423	1.43094	1.547	0.12177	9.15436					
		pH	0.62191	0.58597	1.061	0.28854	1.86248					
		OM*pH	-0.29024	0.22744	-1.276	0.20192	0.74809					
	SOM x PR	Intercept	-6.14627	2.77187	-2.217	0.0266	0.00214	81	69	54	58	0.26
		OM	3.43785	1.31923	2.606	0.00916	31.11987					
		PR	1.83726	1.06439	1.726	0.08433	6.27933					
		OM*PR	-1.13852	0.50449	-2.257	0.02402	0.32029					
	LOC x pH	Intercept	-1.11154	2.16672	-0.513	0.60795	0.32905	39	56	119	125	0
		LOC	0.0868	0.72371	0.12	0.90453	1.09068					
		pH	0.17392	0.34998	0.497	0.61923	1.18996					
		LOC*pH	-0.01082	0.11682	-0.093	0.92621	0.98924					
	LOC x PR	Intercept	-1.98154	0.98093	-2.02	0.04338	0.13786	65	52	87	91	0.09
		LOC	1.3418	0.51648	2.598	0.00938	3.82594					
		PR	0.77451	0.38782	1.997	0.04581	2.16953					
		LOC*PR	-0.58123	0.23318	-2.493	0.01268	0.55921					
	pH x PR	Intercept	9.01461	5.22318	1.726	0.08437	8222.33	60	56	92	97	0.04
		pH	-1.40497	0.86356	-1.627	0.10375	0.24537					
		PR	-4.35077	2.14491	-2.028	0.04252	0.0129					
		pH*PR	0.67569	0.34929	1.934	0.05305	1.96539					
	SOM	Intercept	-0.7786	1.12307	-0.693	0.48813	0.45905	81	73	49	52	0.24
	LOC	PR	-0.5938	0.38509	-1.542	0.12307	0.55222					
	pH	OM	2.01639	0.79755	2.528	0.01146	7.51118					
	PR	LOC	-0.87583	0.37656	-2.326	0.02002	0.41652					
STA	SOM x LOC	Intercept	0.05346	0.5444	0.098	0.92178	1.05491	34	63	65	71	0.01
		OM	0.08431	0.28468	0.296	0.76711	1.08796					
		LOC	0.01281	0.17541	0.073	0.94178	1.01289					
		OM*LOC	-0.03402	0.06618	-0.514	0.60723	0.96655					
	SOM x pH	Intercept	-1.96572	3.68257	-0.534	0.59349	0.14006	53	65	74	77	0.02
		OM	1.46426	1.50745	0.971	0.33137	4.32436					
		pH	0.33994	0.63085	0.539	0.58998	1.40486					
		OM*pH	-0.24865	0.2527	-0.984	0.32514	0.77986					
	SOM x PR	Intercept	-8.48662	2.96129	-2.866	0.00416	0.00021	67	76	54	57	0.2
		OM	2.37042	0.93605	2.532	0.01133	10.701911					
		PR	3.3717	1.20207	2.805	0.00503	29.12799					
		OM*PR	-0.89597	0.39372	-2.276	0.02287	0.40821					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	LOC x pH	Intercept	-1.87101	2.35734	-0.794	0.42737	0.15397	52	50	118	124	0.01
		LOC	0.5273	0.84463	0.624	0.53244	1.69434					
		pH	0.32205	0.37849	0.851	0.39483	1.37996					
		LOC*pH	-0.09483	0.1359	-0.698	0.48531	0.90953					
	LOC x PR	Intercept	-1.48347	1.09393	-1.356	0.17507	0.22685	67	64	86	90	0.12
		LOC	-0.29502	0.52848	-0.558	0.57668	0.74451					
		PR	0.66415	0.41322	1.607	0.108	1.94284					
		LOC*PR	0.11168	0.18403	0.607	0.54394	1.11816					
	pH x PR	Intercept	-5.82811	6.07635	-0.959	0.33749	0.00294	67	69	92	96	0.11
		pH	0.65338	0.99955	0.654	0.51332	1.92203					
		PR	2.14052	2.36478	0.905	0.36538	8.50383					
		pH*PR	-0.21655	0.38502	-0.562	0.57382	0.8053					
	SOM	Intercept	-9.56241	3.25042	-2.942	0.00326	0.00007	72	84	48	51	0.24
	LOC	PR	3.73411	1.30365	2.864	0.00418	41.85081					
	pH	OM	2.88441	1.09056	2.645	0.00817	17.89309					
	PR	PR*OM	-1.05505	0.44214	-2.386	0.01702	0.34817					
PAN	SOM x LOC	Intercept	-0.53665	0.70329	-0.763	0.44542	0.5847	70	56	65	72	0.05
		OM	0.00582	0.33681	0.017	0.98621	1.00584					
		LOC	0.04474	0.17955	0.249	0.80324	1.04575					
		OM*LOC	0.03738	0.06295	0.594	0.55268	1.03808					
	SOM x pH	Intercept	3.63145	3.66175	0.992	0.32133	37.767577	54	32	73	78	0.03
		OM	-1.20922	1.35607	-0.892	0.37255	0.29843					
		pH	-0.69243	0.62426	-1.109	0.26734	0.50036					
		OM*pH	0.23062	0.21693	1.063	0.28774	1.25938					
	SOM x PR	Intercept	1.53973	2.49135	0.618	0.53656	4.66332	57	64	54	58	0.04
		OM	-0.93134	0.97422	-0.956	0.33908	0.39403					
		PR	-0.65272	1.02949	-0.634	0.52606	0.52063					
		OM*PR	0.42013	0.39745	1.057	0.29048	1.52216					
	LOC x pH	Intercept	-4.68877	2.34949	-1.996	0.04597	0.0092	63	63	118	125	0.04
		LOC	0.9867	0.76613	1.288	0.19778	2.68238					
		pH	0.78935	0.37727	2.092	0.03642	2.20196					
		LOC*pH	-0.1743	0.124	-1.406	0.15984	0.84004					
	LOC x PR	Intercept	0.77806	0.90803	0.857	0.39152	2.17724	39	88	87	91	0.03
		LOC	-0.6346	0.41218	-1.54	0.12365	0.53015					
		PR	-0.17996	0.34774	-0.518	0.60479	0.8353					
		LOC*PR	0.17419	0.14351	1.214	0.2248	1.19029					
	pH x PR	Intercept	-7.5056	5.10673	-1.47	0.14163	0.00055	56	65	92	97	0.05

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		pH	1.19065	0.84518	1.409	0.15891	3.28921					
		PR	1.61035	2.02359	0.796	0.42615	5.00457					
		pH*PR	-0.23919	0.33054	-0.724	0.46929	0.78726					
	SOM	Intercept	3.00929	3.36003	0.896	0.37046	20.27295	67	50	49	52	0.08
	LOC	pH	-0.74046	0.59134	-1.252	0.21051	0.4769					
	pH	PR	0.35283	0.36297	0.972	0.33103	1.42308					
	PR	LOC	0.14566	0.15752	0.925	0.35514	1.1568					
COL	SOM x LOC	Intercept	1.68642	0.60702	2.778	0.00547	5.40014	76	69	65	72	0.18
		OM	-0.34079	0.33692	-1.011	0.31178	0.71121					
		LOC	-0.43797	0.23498	-1.864	0.06234	0.64534					
		OM*LOC	0.03401	0.09039	0.376	0.70677	1.03459					
	SOM x pH	Intercept	2.00103	3.29357	0.608	0.54348	7.3967	52	56	73	78	0.02
		OM	-0.70076	1.31263	-0.534	0.59344	0.49621					
		pH	-0.24654	0.55644	-0.443	0.65772	0.7815					
		OM*pH	0.077	0.21256	0.362	0.71717	1.08004					
	SOM x PR	Intercept	-7.65742	2.74074	-2.794	0.00521	0.00047	77	81	54	58	0.22
		OM	2.56814	0.94495	2.718	0.00657	13.04156					
		PR	3.9282	1.27706	3.076	0.0021	50.8152					
		OM*PR	-1.42497	0.46881	-3.04	0.00237	0.24052					
	LOC x pH	Intercept	1.60217	2.39582	0.669	0.50366	4.9638	54	87	117	125	0.13
		LOC	-2.06659	1.22892	-1.682	0.09264	0.12662					
		pH	-0.12976	0.38305	-0.339	0.7348	0.87831					
		LOC*pH	0.26365	0.19165	1.376	0.16892	1.30167					
	LOC x PR	Intercept	-2.54914	1.43819	-1.772	0.07632	0.07815	69	80	87	91	0.29
		LOC	0.29253	0.72461	0.404	0.68644	1.33981					
		PR	1.58598	0.62411	2.541	0.01105	4.88406					
		LOC*PR	-0.51597	0.38553	-1.338	0.18078	0.59692					
	pH x PR	Intercept	-5.10385	5.3205	-0.959	0.33742	0.00607	64	62	92	97	0.08
		pH	0.61132	0.88668	0.689	0.49055	1.84285					
		PR	1.55272	2.21182	0.702	0.48267	4.72429					
		pH*PR	-0.14661	0.36445	-0.402	0.68749	0.86363					
	SOM	Intercept	-5.62676	3.33825	-1.686	0.09188	0.0036	81	81	49	52	0.38
	LOC	LOC	1.34558	1.18737	1.133	0.25712	3.8404					
	pH	PR	3.04676	1.48028	2.058	0.03957	21.047					
	PR	LOC*PR	-0.92652	0.56917	-1.628	0.10356	0.39593					
EAR	SOM x LOC	Intercept	QS					68	68	65	72	0.38

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		OM	QS									
		LOC	QS									
		OM*LOC	QS									
	SOM x pH	Intercept	-4.52156	3.96175	-1.141	0.25374	0.01087	68	77	73	78	0.06
		OM	1.91664	1.36401	1.405	0.15998	6.79811					
		pH	0.58827	0.64812	0.908	0.36406	1.80087					
		OM*pH	-0.24939	0.2143	-1.164	0.24453	0.77927					
	SOM x PR	Intercept	-7.37128	2.56461	-2.874	0.00405	0.00063	77	86	54	58	0.26
		OM	3.24416	1.03069	3.148	0.00165	25.64029					
		PR	2.34788	0.97974	2.396	0.01656	10.46335					
		OM*PR	-1.09196	0.40757	-2.679	0.00738	0.33556					
	LOC x pH	Intercept	-3.12619	2.34859	-1.331	0.18316	0.04388	83	56	117	125	0.14
		LOC	-0.00876	1.07188	-0.008	0.99348	0.99127					
		pH	0.63178	0.37922	1.666	0.09571	1.88096					
		LOC*pH	-0.06517	0.17263	-0.377	0.70581	0.93691					
	LOC x PR	Intercept	2.60009	1.0815	2.404	0.01621	13.46492	76	50	87	91	0.1
		LOC	-0.86482	0.50833	-1.701	0.08888	0.42113					
		PR	-0.83725	0.42759	-1.958	0.05022	0.4329					
		LOC*PR	0.133	0.21365	0.623	0.5336	1.14226					
	pH x PR	Intercept	-11.0094	5.42021	-2.031	0.04224	0.00002	58	67	92	97	0.08
		pH	2.03381	0.9187	2.214	0.02684	7.64317					
		PR	3.30588	2.21436	1.493	0.13546	27.27249					
		pH*PR	-0.63587	0.37135	-1.712	0.08684	0.52947					
	SOM	Intercept	-3.99637	3.7032	-1.079	0.28051	0.01838	69	83	49	52	0.55
	LOC	OM	3.3292	1.03585	3.214	0.00131	27.91591					
	pH	pH	0.22361	0.66853	0.334	0.73802	1.25059					
	PR	LOC	-2.33927	0.86212	-2.713	0.00666	0.0964					
ERO	SOM x LOC	Intercept	-1.50258	0.59081	-2.543	0.01098	0.22256	74	74	66	72	0.13
		OM	0.39828	0.37265	1.069	0.28517	1.48926					
		LOC	0.47979	0.20931	2.292	0.02189	1.61573					
		OM*LOC	-0.08205	0.07152	-1.147	0.25128	0.92122					
	SOM x pH	Intercept	-5.26579	3.4141	-1.542	0.12298	0.00517	73	54	75	78	0.06
		OM	3.00552	1.56003	1.927	0.05403	20.19665					
		pH	0.75029	0.5673	1.323	0.18598	2.11761					
		OM*pH	-0.43536	0.23967	-1.817	0.06929	0.64703					
	SOM x PR	Intercept	2.3714	2.30098	1.031	0.30273	10.71243	76	80	55	58	0.17
		OM	-0.67506	0.90141	-0.749	0.45392	0.50912					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PR	-1.71467	0.99405	-1.725	0.08454	0.18002					
		OM*PR	0.67521	0.43185	1.564	0.11792	1.96445					
	LOC x pH	Intercept	-6.99694	2.62467	-2.666	0.00768	0.00091	73	70	118	125	0.1
		LOC	4.28863	1.6459	2.606	0.00917	72.86652					
		pH	1.06828	0.42706	2.501	0.01237	2.91037					
		LOC*pH	-0.6452	0.25113	-2.569	0.01019	0.52456					
	LOC x PR	Intercept	-3.2417	2.40131	-1.35	0.17703	0.0391	78	75	87	91	0.31
		LOC	2.1814	3.22425	0.677	0.49869	8.85869					
		PR	0.19498	0.98134	0.199	0.84251	1.21529					
		LOC*PR	1.02774	1.51981	0.676	0.49889	2.79475					
	pH x PR	Intercept	5.15955	6.14658	0.839	0.40124	174.0857	52	67	93	97	0.05
		pH	-0.83463	1.04007	-0.802	0.42228	0.43403					
		PR	-3.56335	2.48904	-1.432	0.15225	0.02834					
		pH*PR	0.58393	0.42135	1.386	0.1658	1.79307					
	SOM	Intercept	-1.96402	2.28041	-0.861	0.3891	0.14029	93	79	49	52	0.49
	LOC	LOC	4.48803	0.87456	5.132	0	88.94563					
	pH	PR	0.42844	5.94891	0.072	0.94259	1.53486					
	PR	pH	-0.32037	13.23453	-0.024	0.98069	0.72588					
PON	SOM x LOC	Intercept	QS					86	54	49	53	0.19
		OM	QS									
		LOC	QS									
		OM*LOC	QS									
	SOM x pH	Intercept	-0.50688	5.14271	-0.099	0.92149	0.60237	54	83	55	59	0.21
		OM	-3.89651	2.05344	-1.898	0.05776	0.02031					
		pH	0.31014	0.90875	0.341	0.73289	1.36362					
		OM*pH	0.5612	0.3447	1.628	0.10351	1.75277					
	SOM x PR	Intercept	-4.8408	3.62882	-1.334	0.18221	0.0079	69	73	35	39	0.24
		OM	1.96198	1.24318	1.578	0.11452	7.11337					
		PR	3.08231	1.70589	1.807	0.07078	21.80874					
		OM*PR	-1.46762	0.68485	-2.143	0.03211	0.23047					
	LOC x pH	Intercept	0.83157	3.41329	0.244	0.80752	2.29692	100	32	99	106	0.07
		LOC	-2.37143	3.38655	-0.7	0.48377	0.09335					
		pH	-0.23037	0.56282	-0.409	0.68231	0.79424					
		LOC*pH	0.46562	0.57941	0.804	0.42162	1.593					
	LOC x PR	Intercept	-2.39143	1.66887	-1.433	0.15187	0.0915	64	61	68	72	0.05
		LOC	0.58353	1.30091	0.449	0.65375	1.79236					
		PR	0.86551	0.80585	1.074	0.28281	2.37622					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		LOC*PR	0.05641	1.01488	0.056	0.95567	1.05803					
	pH x PR	Intercept	-12.426	7.97755	-1.558	0.11932	0	65	69	73	78	0.09
		pH	1.85404	1.32549	1.399	0.16188	6.38556					
		PR	3.99118	3.36976	1.184	0.23625	54.11881					
		pH*PR	-0.55917	0.55229	-1.012	0.31132	0.57169					
	SOM	Intercept	-5.5071	3.83502	-1.436	0.151	0.00406	86	54	30	33	0.08
	LOC	LOC	2.19504	1.90615	1.152	0.2495	8.98033					
	pH	PR	2.28652	1.64662	1.389	0.16495	9.8406					
	PR	LOC*PR	-0.89598	1.48828	-0.602	0.54716	0.40821					

Table 15. Logistic regression models of the effect of manageable variables interactions on the scores of the visual soil quality indicators for **alkaline soils**. Models with two explanatory variables and an interaction term (the product of the two variables). %CP percentage of correct predictions.

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	SOM x LOC	Intercept	-1.7109	0.64181	-2.666	0.00768	0.1807	75	62	88	95	0.14
		OM	0.34743	0.25095	1.385	0.16621	1.41543					
		LOC	0.59116	0.51971	1.137	0.25534	1.80607					
		OM*LOC	-0.02518	0.24716	-0.102	0.91885	0.97513					
	SOM x pH	Intercept	9.03912	7.59468	1.19	0.23397	8426.33	66	67	87	95	0.11
		OM	0.93714	2.66127	0.352	0.72473	2.55268					
		pH	-1.21988	0.97895	-1.246	0.21273	0.29527					
		OM*pH	-0.09635	0.34626	-0.278	0.78083	0.90815					
	SOM x PR	Intercept	1.46044	1.39162	1.049	0.29397	4.30785	58	61	63	66	0.08
		OM	-0.09818	0.63113	-0.156	0.87638	0.90649					
		PR	-0.875	0.50735	-1.725	0.08459	0.41686					
		OM*PR	0.16739	0.17917	0.934	0.35016	1.18222					
	LOC x pH	Intercept	3.88326	5.46788	0.71	0.47758	48.58231	75	50	108	122	0.11
		LOC	3.27365	4.07002	0.804	0.4212	26.40765					
		pH	-0.58159	0.70658	-0.823	0.41045	0.55901					
		LOC*pH	-0.34889	0.51767	-0.674	0.50033	0.70547					
	LOC x PR	Intercept	0.8858	0.8645	1.025	0.30553	2.42493	60	61	77	81	0.04
		LOC	-0.14068	0.58735	-0.24	0.81071	0.86877					
		PR	-0.49976	0.35778	-1.397	0.16246	0.60668					
		LOC*PR	0.23388	0.29812	0.785	0.43274	1.26349					
	pH x PR	Intercept	13.72395	9.62123	1.426	0.15375	10000+	66	57	77	81	0.06
		pH	-1.62006	1.19811	-1.352	0.17632	0.19789					
		PR	-3.42566	3.62322	-0.945	0.34442	0.03253					
		pH*PR	0.38825	0.4484	0.866	0.38656	1.4744					
	SOM	Intercept	16.4755	6.27884	2.624	0.00869	10000+	70	65	63	66	0.16
	LOC	pH	-2.03346	0.78624	-2.586	0.0097	0.13088					
	pH	PR	-0.6219	0.24679	-2.52	0.01174	0.53692					
	PR	OM	0.70096	0.31844	2.201	0.02772	2.01569					
POR	SOM x LOC	Intercept	-2.015	0.73031	-2.759	0.0058	0.13332	74	65	87	95	0.19
		OM	0.36273	0.30442	1.192	0.23343	1.43725					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		LOC	0.32591	0.58735	0.555	0.57898	1.38528					
		OM*LOC	0.13186	0.314	0.42	0.67453	1.14095					
	SOM x pH	Intercept	24.65702	9.04511	2.726	0.00641	10000+	67	76	88	95	0.19
		OM	-4.45033	2.82853	-1.573	0.11563	0.01167					
		pH	-3.31705	1.18496	-2.799	0.00512	0.03626					
		OM*pH	0.62628	0.3722	1.683	0.09245	1.87063					
	SOM x PR	Intercept	-1.51695	1.63267	-0.929	0.35283	0.21938	67	56	63	66	0.09
		OM	0.85427	0.72004	1.186	0.23546	2.34965					
		PR	-0.04698	0.53048	-0.089	0.92943	0.95411					
		OM*PR	-0.04081	0.19185	-0.213	0.83154	0.96001					
	LOC x pH	Intercept	7.13724	5.538	1.289	0.19748	1257.954	67	59	109	122	0.12
		LOC	3.14506	3.79535	0.829	0.4073	23.22103					
		pH	-0.9834	0.72252	-1.361	0.17349	0.37404					
		LOC*pH	-0.35176	0.49237	-0.714	0.47496	0.70345					
	LOC x PR	Intercept	0.26828	0.86154	0.311	0.7555	1.30771	67	31	77	81	0.01
		LOC	-0.31481	0.6026	-0.522	0.60138	0.72993					
		PR	-0.23541	0.33917	-0.694	0.48764	0.79025					
		LOC*PR	0.27985	0.29279	0.956	0.33917	1.32293					
	pH x PR	Intercept	10.90664	9.45306	1.154	0.2486	10000+	67	58	77	81	0.06
		pH	-1.40128	1.19401	-1.174	0.24056	0.24628					
		PR	-0.11579	3.23709	-0.036	0.97147	0.89066					
		pH*PR	0.0212	0.40576	0.052	0.95834	1.02142					
	SOM	Intercept	18.02322	6.87685	2.621	0.00877	10000+	69	78	63	66	0.21
	LOC	OM	1.0337	0.35799	2.887	0.00388	2.81144					
	pH	pH	-2.45032	0.88919	-2.756	0.00586	0.08627					
	PR	PR	-0.284	0.24564	-1.156	0.24762	0.75277					
STA	SOM x LOC	Intercept	-0.50248	0.71329	-0.704	0.48116	0.60503	84	61	85	95	0.15
		OM	-0.19686	0.32972	-0.597	0.55046	0.8213					
		LOC	-1.08391	0.69015	-1.571	0.11629	0.33827					
		OM*LOC	0.70509	0.37254	1.893	0.0584	2.02404					
	SOM x pH	Intercept	-7.06979	8.5192	-0.83	0.40662	0.00085	85	57	87	95	0.14
		OM	5.66366	3.05725	1.853	0.06395	288.2016					
		pH	0.80545	1.08945	0.739	0.45971	2.23771					
		OM*pH	-0.69589	0.39638	-1.756	0.07915	0.49863					
	SOM x PR	Intercept	4.85401	1.7618	2.755	0.00587	128.2539	70	85	63	66	0.14
		OM	-1.8988	0.91271	-2.08	0.03749	0.14975					
		PR	-1.63535	0.63337	-2.582	0.00982	0.19488					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		OM*PR	0.52064	0.23207	2.243	0.02487	1.68311					
	LOC x pH	Intercept	8.91487	4.99348	1.785	0.07421	7441.847	52	63	112	122	0.03
		LOC	-1.95086	2.58138	-0.756	0.4498	0.14215					
		pH	-1.173	0.65594	-1.788	0.07373	0.30944					
		LOC*pH	0.27331	0.35108	0.778	0.43628	1.31431					
	LOC x PR	Intercept	0.6709	1.0204	0.657	0.51087	1.956	53	47	77	81	0.03
		LOC	0.08607	0.66303	0.13	0.89671	1.08988					
		PR	-0.35698	0.43168	-0.827	0.40826	0.69978					
		LOC*PR	0.05523	0.3492	0.158	0.87433	1.05679					
	pH x PR	Intercept	0.4398	11.58	0.038	0.9697	1.5524	55	67	77	81	0.04
		pH	0.05586	1.43143	0.039	0.96887	1.05744					
		PR	-1.26883	4.69103	-0.27	0.78679	0.28116					
		pH*PR	0.11489	0.57724	0.199	0.84224	1.12175					
	SOM	Intercept	4.85401	1.7618	2.755	0.00587	128.2539	70	85	63	66	0.14
	LOC	OM	-1.8988	0.91271	-2.08	0.03749	0.14975					
	pH	PR	-1.63535	0.63337	-2.582	0.00982	0.19488					
	PR	OM*PR	0.52064	0.23207	2.243	0.02487	1.68311					
PAN	SOM x LOC	Intercept	-2.38098	0.70776	-3.364	0.00077	0.09246	76	62	86	95	0.18
		OM	0.61068	0.22795	2.679	0.00738	1.84168					
		LOC	0.5703	0.40686	1.402	0.161	1.7688					
		OM*LOC	-0.08427	0.17903	-0.471	0.63785	0.91918					
	SOM x pH	Intercept	16.40979	9.57687	1.713	0.08662	10000+	74	79	87	95	0.21
		OM	-0.64545	3.03609	-0.213	0.83165	0.52443					
		pH	-2.26697	1.25366	-1.808	0.07056	0.10363					
		OM*pH	0.13616	0.39782	0.342	0.73216	1.14586					
	SOM x PR	Intercept	1.10485	1.64784	0.67	0.50255	3.01877	54	75	63	66	0.11
		OM	0.11108	0.70901	0.157	0.87551	1.11748					
		PR	-1.04563	0.66819	-1.565	0.11761	0.35147					
		OM*PR	0.19785	0.21046	0.94	0.34717	1.21878					
	LOC x pH	Intercept	16.76779	5.97443	2.807	0.00501	10000+	64	73	112	122	0.17
		LOC	0.68541	3.56275	0.192	0.84744	1.98458					
		pH	-2.18332	0.79188	-2.757	0.00583	0.11267					
		LOC*pH	-0.07977	0.48663	-0.164	0.8698	0.92333					
	LOC x PR	Intercept	2.58344	0.97723	2.644	0.0082	13.24266	59	72	77	81	0.09
		LOC	-1.28812	0.73427	-1.754	0.07938	0.27579					
		PR	-0.91709	0.40244	-2.279	0.02268	0.39968					
		LOC*PR	0.44458	0.33297	1.335	0.18181	1.55984					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	pH x PR	Intercept	38.21953	12.58672	3.036	0.00239	10000+	84	64	77	81	0.22
		pH	-4.67969	1.57214	-2.977	0.00291	0.00928					
		PR	-9.06868	4.63153	-1.958	0.05023	0.00012					
		pH*PR	1.08099	0.57325	1.886	0.05934	2.94759					
	SOM	Intercept	10.81087	6.99044	1.547	0.12198	10000+	65	67	63	66	0.14
	LOC	OM	0.84537	0.3643	2.321	0.02031	2.32885					
	pH	PR	-0.57247	0.29007	-1.974	0.04843	0.56413					
	PR	pH	-1.40185	0.88553	-1.583	0.11341	0.24614					
COL	SOM x LOC	Intercept	-2.40364	0.81425	-2.952	0.00316	0.09039	80	69	86	95	0.24
		OM	0.46793	0.29403	1.591	0.11151	1.59669					
		LOC	0.11789	0.53941	0.219	0.827	1.12512					
		OM*LOC	0.18735	0.28103	0.667	0.505	1.20605					
	SOM x pH	Intercept	33.4248	12.95428	2.58	0.00987	10000+	75	81	90	95	0.32
		OM	-4.25275	3.54829	-1.199	0.23071	0.01423					
		pH	-4.55965	1.72608	-2.642	0.00825	0.01047					
		OM*pH	0.62502	0.47019	1.329	0.18376	1.86828					
	SOM x PR	Intercept	-1.63533	2.18123	-0.75	0.45342	0.19489	63	56	63	66	0.09
		OM	1.31403	0.95771	1.372	0.17005	3.72113					
		PR	0.15701	0.82656	0.19	0.84934	1.17001					
		OM*PR	-0.27089	0.31953	-0.848	0.39656	0.7627					
	LOC x pH	Intercept	12.53033	7.11474	1.761	0.07821	10000+	63	66	110	122	0.16
		LOC	4.51032	5.61276	0.804	0.42164	90.95061					
		pH	-1.62439	0.95616	-1.699	0.08935	0.19703					
		LOC*pH	-0.59956	0.77414	-0.774	0.43864	0.54905					
	LOC x PR	Intercept	0.9963	1.09699	0.908	0.36377	2.70823	51	69	77	81	0.06
		LOC	-0.26662	1.01018	-0.264	0.79183	0.76596					
		PR	-0.01036	0.49817	-0.021	0.98341	0.9897					
		LOC*PR	-0.35617	0.58272	-0.611	0.54105	0.70035					
	pH x PR	Intercept	22.38226	12.52408	1.787	0.07392	10000+	71	75	77	81	0.18
		pH	-2.81698	1.6157	-1.743	0.08125	0.05979					
		PR	-1.53437	4.50217	-0.341	0.73325	0.21559					
		pH*PR	0.17442	0.5771	0.302	0.76247	1.19056					
	SOM	Intercept	33.7561	11.46255	2.945	0.00323	10000+	81	89	63	66	0.35
	LOC	OM	1.19415	0.50999	2.342	0.0192	3.30076					
	pH	pH	-4.32912	1.51259	-2.862	0.00421	0.01318					
	PR	PR	-0.90959	0.40513	-2.245	0.02476	0.40269					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
EAR	SOM x LOC	Intercept	-0.17361	0.8126	-0.214	0.83082	0.84062	81	46	86	95	0.18
		OM	0.72897	0.4347	1.677	0.09355	2.07294					
		LOC	-0.09845	0.94331	-0.104	0.91688	0.90624					
		OM*LOC	-0.61457	0.48695	-1.262	0.20691	0.54087					
	SOM x pH	Intercept	-19.0395	7.78302	-2.446	0.01443	0	70	50	88	95	0.11
		OM	2.96066	2.53818	1.166	0.24343	19.3108					
		pH	2.31264	0.98583	2.346	0.01898	10.10102					
		OM*pH	-0.34305	0.32883	-1.043	0.29683	0.70961					
	SOM x PR	Intercept	-4.3804	1.71379	-2.556	0.01059	0.01252	78	73	63	66	0.23
		OM	1.02303	0.74536	1.373	0.16989	2.78162					
		PR	1.44034	0.58838	2.448	0.01437	4.22215					
		OM*PR	-0.26246	0.21468	-1.223	0.22149	0.76916					
	LOC x pH	Intercept	-6.32578	5.85234	-1.081	0.27974	0.00179	77	44	109	122	0.12
		LOC	3.02386	5.16468	0.585	0.55822	20.57053					
		pH	0.94793	0.76703	1.236	0.21651	2.58037					
		LOC*pH	-0.51818	0.68129	-0.761	0.4469	0.59561					
	LOC x PR	Intercept	-0.36393	0.97389	-0.374	0.70864	0.69494	68	59	77	81	0.15
		LOC	-1.09091	0.80587	-1.354	0.17583	0.33591					
		PR	0.29857	0.38233	0.781	0.43485	1.34793					
		LOC*PR	0.28319	0.34843	0.813	0.41636	1.32736					
	pH x PR	Intercept	12.73073	10.04509	1.267	0.20503	10000+	62	82	77	81	0.16
		pH	-1.81085	1.27346	-1.422	0.15503	0.16351					
		PR	-6.6591	3.92365	-1.697	0.08966	0.00128					
		pH*PR	0.92283	0.5006	1.843	0.06527	2.5164					
	SOM	Intercept	-18.2162	6.97015	-2.613	0.00896	0	75	77	63	66	0.32
	LOC	pH	2.07906	0.85294	2.438	0.01479	7.99693					
	pH	PR	0.89247	0.27161	3.286	0.00102	2.44115					
	PR	LOC	-0.94889	0.60832	-1.56	0.11879	0.38717					
ERO	SOM x LOC	Intercept	-0.91678	0.73332	-1.25	0.21124	0.3998	81	35	86	95	0.08
		OM	0.11052	0.27729	0.399	0.6902	1.11686					
		LOC	1.36631	0.88867	1.537	0.12418	3.92085					
		OM*LOC	-0.2775	0.3192	-0.869	0.38466	0.75768					
	SOM x pH	Intercept	-6.67115	7.39865	-0.902	0.36723	0.00127	38	70	87	95	0.02
		OM	3.08401	2.51753	1.225	0.22057	21.84579					
		pH	0.91817	0.94958	0.967	0.33358	2.50471					
		OM*pH	-0.41958	0.32765	-1.281	0.20034	0.65732					
	SOM x PR	Intercept	3.21399	1.68268	1.91	0.05613	24.87807	71	64	63	66	0.11

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		OM	-0.8678	0.70946	-1.223	0.22126	0.41987					
		PR	-0.92214	0.5159	-1.787	0.07386	0.39767					
		OM*PR	0.20225	0.18796	1.076	0.28192	1.22416					
	LOC x pH	Intercept	3.53808	5.7068	0.62	0.53527	34.40086	74	31	111	122	0.05
		LOC	-2.57132	5.05339	-0.509	0.61087	0.07643					
		pH	-0.54436	0.75158	-0.724	0.46889	0.58021					
		LOC*pH	0.4205	0.67783	0.62	0.53502	1.52273					
	LOC x PR	Intercept	0.24817	1.02887	0.241	0.8094	1.28168	56	57	77	81	0.07
		LOC	0.73146	0.91964	0.795	0.42639	2.07812					
		PR	-0.24259	0.36804	-0.659	0.50981	0.7846					
		LOC*PR	-0.09023	0.35142	-0.257	0.79736	0.91372					
	pH x PR	Intercept	11.625117	10.375114	1.12	0.26251	10000+	60	70	77	81	0.06
		pH	-1.31619	1.28665	-1.023	0.30633	0.26816					
		PR	-4.01828	3.41412	-1.177	0.23921	0.01798					
		pH*PR	0.45327	0.4217	1.075	0.28244	1.57345					
	SOM	Intercept	0.83743	0.79334	1.056	0.29116	2.31043	67	62	63	66	0.13
	LOC	LOC	0.95661	0.70593	1.355	0.17539	2.60285					
	pH	PR	-0.32631	0.2081	-1.568	0.11688	0.72158					
	PR	OM	-0.31343	0.28305	-1.107	0.26816	0.73094					
PON	SOM x LOC	Intercept	-1.06177	0.68641	-1.547	0.1219	0.34584	76	56	82	90	0.08
		OM	0.15292	0.36226	0.422	0.67293	1.16523					
		LOC	0.30272	0.76145	0.398	0.69096	1.35353					
		OM*LOC	0.11292	0.4129	0.273	0.78448	1.11955					
	SOM x pH	Intercept	5.81013	8.80715	0.66	0.50944	333.6619	76	66	82	90	0.15
		OM	4.18184	3.59287	1.164	0.24445	65.4861					
		pH	-0.76186	1.10699	-0.688	0.49131	0.4668					
		OM*pH	-0.51465	0.45495	-1.131	0.25797	0.59771					
	SOM x PR	Intercept	2.90675	1.62985	1.783	0.07451	18.29725	62	72	58	61	0.18
		OM	-0.30923	0.69461	-0.445	0.65618	0.73401					
		PR	-1.04685	0.54891	-1.907	0.0565	0.35104					
		OM*PR	0.1152	0.19629	0.587	0.55729	1.12209					
	LOC x pH	Intercept	20.717974	7.01838	2.952	0.00316	10000+	76	77	102	117	0.17
		LOC	-3.53258	6.43848	-0.549	0.58323	0.02923					
		pH	-2.7249	0.89592	-3.041	0.00235	0.06555					
		LOC*pH	0.55148	0.81821	0.674	0.50031	1.73582					
	LOC x PR	Intercept	1.80408	1.14125	1.581	0.11393	6.07438	62	74	72	76	0.2
		LOC	0.54317	0.99783	0.544	0.5862	1.72146					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PR	-0.49553	0.46749	-1.06	0.28916	0.60925					
		LOC*PR	-0.37667	0.50928	-0.74	0.45954	0.68614					
	pH x PR	Intercept	21.78997	14.42452	1.511	0.13089	10000+	76	81	72	76	0.29
		pH	-2.40797	1.76719	-1.363	0.17301	0.09					
		PR	-1.88834	4.42082	-0.427	0.66927	0.15132					
		pH*PR	0.12662	0.54687	0.232	0.8169	1.13499					
	SOM	Intercept	13.52846	6.81761	1.984	0.04722	10000+	69	78	58	61	0.22
	LOC	pH	-1.43668	0.84061	-1.709	0.08744	0.23772					
	pH	PR	-0.7725	0.23069	-3.349	0.00081	0.46186					
	PR	LOC	0.37945	0.56334	0.674	0.50059	1.46148					

Table 16. Logistic regression models of the interactions between climate variables and soil texture fractions on the scores of the visual soil quality indicators for **acid soils**. Models with two explanatory variables and an interaction term (the product of the two variables). %CP percentage of correct predictions.

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	GCI X SAND	Intercept	1.16341	1.34679	0.864	0.38767	3.20084	67	58	111	117	0.09
		GCI	-0.02167	0.03261	-0.664	0.50639	0.97857					
		Sand	-0.05126	0.02785	-1.841	0.06565	0.95003					
		GCI*Sand	0.00126	0.00075	1.681	0.09282	1.00126					
	GCI X SILT	Intercept	-4.50233	1.49322	-3.015	0.00257	0.01108	69	56	109	117	0.11
		GCI	0.11935	0.04375	2.728	0.00637	1.12677					
		Silt	0.09437	0.04067	2.32	0.02033	1.09897					
		GCI*Silt	-0.00253	0.00124	-2.041	0.04126	0.99747					
	GCI X CLAY	Intercept	-1.49512	0.87841	-1.702	0.08874	0.22422	78	38	106	117	0.07
		GCI	0.04953	0.02791	1.775	0.07592	1.05078					
		Clay	-0.01327	0.05202	-0.255	0.79868	0.98682					
		GCI*Clay	-0.00021	0.00111	-0.193	0.84732	0.99979					
	GCI X ALL	Intercept	-4.50233	1.49322	-3.015	0.00257	0.01108	69	56	111	117	0.11
		GCI	0.11935	0.04375	2.728	0.00637	1.12677					
		Silt	0.09437	0.04067	2.32	0.02033	1.09897					
		GCI*Silt	-0.00253	0.00124	-2.041	0.04126	0.99747					
	AI X SAND	Intercept	2.19027	1.61608	1.355	0.17532	8.93764	61	62	110	117	0.04
		AI	-0.91166	1.17743	-0.774	0.43876	0.40186					
		Sand	-0.03023	0.03343	-0.904	0.36594	0.97023					
		AI*Sand	0.00639	0.02606	0.245	0.80617	1.00642					
	AI X SILT	Intercept	0.57925	1.45156	0.399	0.68986	1.7847	64	53	108	117	0.03
		AI	-1.14518	1.31275	-0.872	0.38302	0.31817					
		Silt	0.0083	0.03191	0.26	0.79478	1.00834					
		AI*Silt	0.00989	0.026	0.381	0.70356	1.00994					
	AI X CLAY	Intercept	-0.27658	0.80951	-0.342	0.7326	0.75837	63	38	103	117	0.02
		AI	-0.04063	0.56225	-0.072	0.94239	0.96018					
		Clay	0.05694	0.05415	1.051	0.29305	1.05859					
		AI*Clay	-0.02871	0.03945	-0.728	0.4668	0.9717					
	AI X ALL	Intercept	2.19027	1.61608	1.355	0.17532	8.93764	61	62	110	117	0.04
		AI	-0.91166	1.17743	-0.774	0.43876	0.40186					
		Sand	-0.03023	0.03343	-0.904	0.36594	0.97023					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI*Sand	0.00639	0.02606	0.245	0.80617	1.00642					
	PET X SAND	Intercept	0.57449	2.15664	0.266	0.78995	1.77622	60	53	110	117	0.02
		PETmy	0.0003	0.00294	0.102	0.91876	1.0003					
		Sand	-0.01812	0.04865	-0.372	0.7096	0.98205					
		PETmy*Sand	0	0.00007	0.027	0.97844	1					
	PET X SILT	Intercept	-6.60005	3.28994	-2.006	0.04484	0.00136	61	67	108	117	0.04
		PETmy	0.00903	0.00482	1.873	0.0611	1.00907					
		Silt	0.15947	0.08763	1.82	0.0688	1.17289					
		PETmy*Silt	-0.00022	0.00013	-1.683	0.09246	0.99978					
	PET X CLAY	Intercept	1.13077	1.78272	0.634	0.52589	3.09804	82	31	103	117	0.02
		PETmy	-0.0021	0.00279	-0.755	0.45028	0.9979					
		Clay	-0.05389	0.08067	-0.668	0.50414	0.94754					
		PETmy*Clay	0.0001	0.0001	0.966	0.33408	1.0001					
	PET X ALL	Intercept	1.05341	0.75162	1.402	0.16106	2.86742	47	64	110	117	0.04
		Sand	-0.02814	0.01508	-1.866	0.06207	0.97225					
		Clay	-0.03421	0.03746	-0.913	0.36118	0.96637					
		Sand*Clay	0.00132	0.00099	1.34	0.18015	1.00132					
	T X SAND	Intercept	-1.04608	1.49741	-0.699	0.48481	0.35131	64	73	110	117	0.1
		Tmy	0.24479	0.1326	1.846	0.06488	1.27736					
		Sand	0.06169	0.03392	1.819	0.06892	1.06364					
		Tmy*Sand	-0.01052	0.00376	-2.797	0.00515	0.98954					
	T X SILT	Intercept	0.38565	1.35719	0.284	0.77629	1.47058	50	71	108	117	0.02
		Tmy	-0.10173	0.14591	-0.697	0.48566	0.90327					
		Silt	0.00005	0.03345	0.002	0.99873	1.00005					
		Tmy*Silt	0.0015	0.0034	0.44	0.65985	1.0015					
	T X CLAY	Intercept	2.06858	1.09203	1.894	0.05819	7.91361	60	71	103	117	0.05
		Tmy	-0.29036	0.12732	-2.281	0.02257	0.74799					
		Clay	-0.04728	0.05685	-0.832	0.40564	0.95382					
		Tmy*Clay	0.0081	0.00473	1.711	0.08717	1.00813					
	T X ALL	Intercept	-1.04608	1.49741	-0.699	0.48481	0.35131	64	73	110	117	0.1
		Tmy	0.24479	0.1326	1.846	0.06488	1.27736					
		Sand	0.06169	0.03392	1.819	0.06892	1.06364					
		Tmy*Sand	-0.01052	0.00376	-2.797	0.00515	0.98954					
	P X SAND	Intercept	1.64126	1.61206	1.018	0.30862	5.16168	56	62	110	117	0.04
		Pmy	-0.0005	0.00166	-0.302	0.76236	0.9995					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Sand	-0.01683	0.03375	-0.499	0.61806	0.98331					
		Pmy*Sand	-0.00001	0.00004	-0.287	0.7742	0.99999					
	P X SILT	Intercept	-1.20074	1.40446	-0.855	0.39258	0.30097	72	33	108	117	0.02
		Pmy	0.00088	0.00184	0.475	0.63454	1.00088					
		Silt	0.04045	0.03285	1.231	0.2182	1.04128					
		Pmy*Silt	-0.00003	0.00004	-0.797	0.42566	0.99997					
	P X CLAY	Intercept	0.15257	0.83661	0.182	0.8553	1.16482	54	56	103	117	0.02
		Pmy	-0.00059	0.0009	-0.66	0.50952	0.99941					
		Clay	0.02084	0.0547	0.381	0.70324	1.02106					
		Pmy*Clay	0	0.00005	0.103	0.91836	1					
	P X ALL	Intercept	1.75271	0.9812	1.786	0.07405	5.77024	54	62	110	117	0.04
		Pmy	-0.00101	0.00064	-1.581	0.11378	0.99899					
		Sand	-0.0231	0.01204	-1.92	0.05491	0.97716					
		Clay	0.01393	0.01844	0.755	0.45014	1.01403					
	NPP X SAND	Intercept	-0.87257	2.42307	-0.36	0.71877	0.41788	51	67	110	117	0.05
		NPP_lim	0.00174	0.00192	0.905	0.36531	1.00174					
		Sand	0.06351	0.05837	1.088	0.27655	1.06557					
		NPP_lim*Sand	-0.00008	0.00005	-1.538	0.12409	0.99992					
	NPP X SILT	Intercept	-0.85321	2.4164	-0.353	0.72402	0.42604	57	42	108	117	0.01
		NPP_lim	0.00031	0.00216	0.143	0.88606	1.00031					
		Silt	0.03226	0.06105	0.528	0.5972	1.03278					
		NPP_lim*Silt	-0.00002	0.00005	-0.311	0.75587	0.99998					
	NPP X CLAY	Intercept	1.96211	1.70864	1.148	0.25083	7.11429	39	73	103	117	0.02
		NPP_lim	-0.00203	0.0015	-1.354	0.17579	0.99797					
		Clay	-0.04348	0.0787	-0.552	0.58063	0.95745					
		NPP_lim*Clay	0.00006	0.00006	0.979	0.32779	1.00006					
	NPP X ALL	Intercept	-0.87257	2.42307	-0.36	0.71877	0.41788	51	67	110	117	0.05
		NPP_lim	0.00174	0.00192	0.905	0.36531	1.00174					
		Sand	0.06351	0.05837	1.088	0.27655	1.06557					
		NPP_lim*Sand	-0.00008	0.00005	-1.538	0.12409	0.99992					
POR	GCI X SAND	Intercept	0.05105	1.13174	0.045	0.96402	1.05237	42	63	111	117	0.01
		GCI	-0.00743	0.02793	-0.266	0.79025	0.9926					
		Sand	0.00384	0.02032	0.189	0.85029	1.00384					
		GCI*Sand	0.00002	0.00056	0.04	0.96825	1.00002					
	GCI X SILT	Intercept	0.93812	1.06876	0.878	0.38007	2.55518	43	69	109	117	0.01
		GCI	-0.03519	0.03355	-1.049	0.29417	0.96542					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Silt	-0.02263	0.03237	-0.699	0.48451	0.97763					
		GCI*Silt	0.00087	0.00102	0.849	0.39611	1.00087					
	GCI X CLAY	Intercept	0.19247	0.75898	0.254	0.79981	1.21224	38	72	104	117	0.02
		GCI	0.00794	0.02405	0.33	0.74134	1.00797					
		Clay	-0.03087	0.04712	-0.655	0.51236	0.9696					
		GCI*Clay	-0.00009	0.00102	-0.089	0.92904	0.99991					
	GCI X ALL	Intercept	0.19247	0.75898	0.254	0.79981	1.21224	38	72	111	117	0.02
		GCI	0.00794	0.02405	0.33	0.74134	1.00797					
		Clay	-0.03087	0.04712	-0.655	0.51236	0.9696					
		GCI*Clay	-0.00009	0.00102	-0.089	0.92904	0.99991					
	AI X SAND	Intercept	3.1992	1.7523	1.826	0.06789	24.51281	62	53	110	117	0.06
		AI	-2.84871	1.33092	-2.14	0.03232	0.05792					
		Sand	-0.0837	0.03658	-2.288	0.02213	0.9197					
		AI*Sand	0.07681	0.02972	2.585	0.00974	1.07984					
	AI X SILT	Intercept	-1.43631	1.41538	-1.015	0.31021	0.2378	51	61	108	117	0.01
		AI	1.26366	1.26161	1.002	0.31653	3.53833					
		Silt	0.02257	0.03143	0.718	0.47276	1.02282					
		AI*Silt	-0.01948	0.0253	-0.77	0.44126	0.98071					
	AI X CLAY	Intercept	-2.03984	0.95021	-2.147	0.03182	0.13005	74	55	103	117	0.09
		AI	1.8134	0.72622	2.497	0.01252	6.13126					
		Clay	0.16282	0.07305	2.229	0.02583	1.17682					
		AI*Clay	-0.15141	0.05865	-2.582	0.00983	0.8595					
	AI X ALL	Intercept	-2.03984	0.95021	-2.147	0.03182	0.13005	74	55	110	117	0.08
		AI	1.8134	0.72622	2.497	0.01252	6.13126					
		Clay	0.16282	0.07305	2.229	0.02583	1.17682					
		AI*Clay	-0.15141	0.05865	-2.582	0.00983	0.8595					
	PET X SAND	Intercept	2.49234	2.15535	1.156	0.24754	12.089555	25	72	110	117	0.02
		PETmy	-0.00367	0.00298	-1.23	0.2187	0.99634					
		Sand	-0.02961	0.04727	-0.626	0.53101	0.97082					
		PETmy*Sand	0.00005	0.00007	0.666	0.5057	1.00005					
	PET X SILT	Intercept	0.15069	2.98718	0.05	0.95977	1.16264	34	61	108	117	0.02
		PETmy	-0.00021	0.00447	-0.047	0.96246	0.99979					
		Silt	0.03396	0.08262	0.411	0.68104	1.03454					
		PETmy*Silt	-0.00005	0.00013	-0.388	0.69811	0.99995					
	PET X CLAY	Intercept	0.59554	1.6215	0.367	0.71341	1.81402	43	72	103	117	0.02

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy	-0.00048	0.0025	-0.191	0.84882	0.99952					
		Clay	0.00382	0.07904	0.048	0.96145	1.00383					
		PETmy*Clay	-0.00003	0.0001	-0.285	0.77596	0.99997					
	PET X ALL	Intercept	0.59554	1.6215	0.367	0.71341	1.81402	43	72	110	117	0.02
		PETmy	-0.00048	0.0025	-0.191	0.84882	0.99952					
		Clay	0.00382	0.07904	0.048	0.96145	1.00383					
		PETmy*Clay	-0.00003	0.0001	-0.285	0.77596	0.99997					
	T X SAND	Intercept	2.23217	1.4758	1.513	0.1304	9.32005	43	78	110	117	0.02
		Tmy	-0.23045	0.12887	-1.788	0.07374	0.79418					
		Sand	-0.04548	0.03213	-1.416	0.15688	0.95554					
		Tmy*Sand	0.00517	0.00333	1.55	0.12108	1.00518					
	T X SILT	Intercept	1.35146	1.34446	1.005	0.3148	3.86308	42	59	108	117	0.01
		Tmy	-0.17015	0.14316	-1.189	0.23463	0.84354					
		Silt	-0.02101	0.03357	-0.626	0.53137	0.97921					
		Tmy*Silt	0.00284	0.0034	0.833	0.40469	1.00284					
	T X CLAY	Intercept	-1.80862	1.02253	-1.769	0.07693	0.16388	60	77	103	117	0.06
		Tmy	0.23142	0.11546	2.004	0.04504	1.26038					
		Clay	0.10535	0.05745	1.834	0.06666	1.1111					
		Tmy*Clay	-0.01161	0.00483	-2.405	0.01617	0.98846					
	T X ALL	Intercept	-1.80862	1.02253	-1.769	0.07693	0.16388	60	77	110	117	0.6
		Tmy	0.23142	0.11546	2.004	0.04504	1.26038					
		Clay	0.10535	0.05745	1.834	0.06666	1.1111					
		Tmy*Clay	-0.01161	0.00483	-2.405	0.01617	0.98846					
	P X SAND	Intercept	4.73135	1.76446	2.681	0.00733	113.4487	55	69	110	117	0.09
		Pmy	-0.00591	0.00191	-3.093	0.00198	0.99411					
		Sand	-0.11345	0.03778	-3.003	0.00267	0.89275					
		Pmy*Sand	0.00015	0.00005	3.245	0.00118	1.00015					
	P X SILT	Intercept	0.27631	1.34479	0.205	0.83721	1.31826	47	56	108	117	0
		Pmy	-0.00059	0.00177	-0.336	0.73661	0.99941					
		Silt	-0.00205	0.03177	-0.065	0.94846	0.99795					
		Pmy*Silt	0.00001	0.00004	0.232	0.81644	1.00001					
	P X CLAY	Intercept	-1.77825	0.84031	-2.116	0.03433	0.16893	62	64	103	117	0.08
		Pmy	0.00222	0.00093	2.384	0.01711	1.00222					
		Clay	0.13066	0.05729	2.281	0.02257	1.13958					
		Pmy*Clay	-0.00015	0.00005	-2.906	0.00366	0.99985					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	P X ALL	Intercept	-1.77825	0.84031	-2.116	0.03433	0.16893	62	64	110	117	0.08
		Pmy	0.00222	0.00093	2.384	0.01711	1.00222					
		Clay	0.13066	0.05729	2.281	0.02257	1.13958					
		Pmy*Clay	-0.00015	0.00005	-2.906	0.00366	0.99985					
	NPP X SAND	Intercept	7.63049	2.63057	2.901	0.00372	2060.053	51	69	110	117	0.08
		NPP_lim	-0.0065	0.00207	-3.143	0.00167	0.99352					
		Sand	-0.18974	0.06086	-3.118	0.00182	0.82717					
		NPP_lim*Sand	0.00017	0.00005	3.227	0.00125	1.00017					
	NPP X SILT	Intercept	1.3751	2.36653	0.581	0.5612	3.95547	42	63	108	117	0.01
		NPP_lim	-0.0014	0.00211	-0.661	0.50849	0.9986					
		Silt	-0.01901	0.06056	-0.314	0.7536	0.98117					
		NPP_lim*Silt	0.00002	0.00005	0.411	0.68102	1.00002					
	NPP X CLAY	Intercept	-4.90334	1.75305	-2.797	0.00516	0.00742	68	73	103	117	0.1
		NPP_lim	0.00446	0.00154	2.889	0.00386	1.00447					
		Clay	0.24392	0.08426	2.895	0.00379	1.27625					
		NPP_lim*Clay	-0.00021	0.00006	-3.296	0.00098	0.99979					
	NPP X ALL	Intercept	-4.90334	1.75305	-2.797	0.00516	0.00742	68	73	110	117	0.1
		NPP_lim	0.00446	0.00154	2.889	0.00386	1.00447					
		Clay	0.24392	0.08426	2.895	0.00379	1.27625					
		NPP_lim*Clay	-0.00021	0.00006	-3.296	0.00098	0.99979					
STA	GCI X SAND	Intercept	0.85216	1.17277	0.727	0.46746	2.34471	66	68	111	116	0.12
		GCI	0.03629	0.03046	1.191	0.23356	1.03695					
		Sand	0.01161	0.02261	0.513	0.60768	1.01168					
		GCI*Sand	-0.00183	0.00081	-2.268	0.02331	0.99817					
	GCI X SILT	Intercept	0.92257	1.24045	0.744	0.45703	2.51576	72	60	110	116	0.11
		GCI	-0.08312	0.04186	-1.985	0.0471	0.92024					
		Silt	-0.02844	0.03602	-0.79	0.42974	0.97196					
		GCI*Silt	0.00222	0.0012	1.849	0.06444	1.00222					
	GCI X CLAY	Intercept	1.4978	0.82675	1.812	0.07004	4.47184	54	68	106	116	0.02
		GCI	-0.04561	0.02752	-1.657	0.09751	0.95542					
		Clay	-0.07247	0.05014	-1.445	0.14837	0.93009					
		GCI*Clay	0.0018	0.0011	1.638	0.10139	1.0018					
	GCI X ALL	Intercept	0.92257	1.24045	0.744	0.45703	2.51576	72	60	111	116	0.11
		GCI	-0.08312	0.04186	-1.985	0.0471	0.92024					
		Silt	-0.02844	0.03602	-0.79	0.42974	0.97196					
		GCI*Silt	0.00222	0.0012	1.849	0.06444	1.00222					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	AI X SAND	Intercept	-0.72225	1.79418	-0.403	0.68728	0.48566	74	65	110	116	0.12
		AI	1.32883	1.30811	1.016	0.30971	3.77661					
		Sand	-0.01827	0.03748	-0.487	0.62597	0.9819					
		AI*Sand	-0.00257	0.02858	-0.09	0.92844	0.99744					
	AI X SILT	Intercept	-3.65914	1.78637	-2.048	0.04052	0.02575	72	63	109	116	0.13
		AI	2.11298	1.51577	1.394	0.16332	8.27286					
		Silt	0.05208	0.03699	1.408	0.1591	1.05346					
		AI*Silt	-0.02126	0.02957	-0.719	0.47218	0.97896					
	AI X CLAY	Intercept	-0.59019	0.88637	-0.666	0.50551	0.55422	67	65	103	116	0.12
		AI	0.55456	0.59944	0.925	0.3549	1.74117					
		Clay	-0.1294	0.07899	-1.638	0.10137	0.87862					
		AI*Clay	0.09926	0.05969	1.663	0.09632	1.10436					
	AI X ALL	Intercept	-3.65914	1.78637	-2.048	0.04052	0.02575	72	63	110	116	0.13
		AI	2.11298	1.51577	1.394	0.16332	8.27286					
		Silt	0.05208	0.03699	1.408	0.1591	1.05346					
		AI*Silt	-0.02126	0.02957	-0.719	0.47218	0.97896					
	PET X SAND	Intercept	-2.64289	2.42917	-1.088	0.2766	0.07116	59	73	110	116	0.14
		PETmy	0.00681	0.00355	1.918	0.0551	1.00683					
		Sand	0.14591	0.06594	2.213	0.02691	1.15709					
		PETmy*Sand	-0.00029	0.00011	-2.715	0.00663	0.99971					
	PET X SILT	Intercept	5.67921	3.73794	1.519	0.12868	292.7187	68	68	109	116	0.11
		PETmy	-0.01096	0.00577	-1.9	0.05742	0.9891					
		Silt	-0.1435	0.09789	-1.466	0.14268	0.86632					
		PETmy*Silt	0.00028	0.00015	1.834	0.0667	1.00028					
	PET X CLAY	Intercept	5.31295	2.48768	2.136	0.0327	202.9477	49	75	103	116	0.04
		PETmy	-0.00813	0.00401	-2.026	0.04276	0.9919					
		Clay	-0.19627	0.09364	-2.096	0.03608	0.82179					
		PETmy*Clay	0.00028	0.00013	2.192	0.0284	1.00028					
	PET X ALL	Intercept	5.67921	3.73794	1.519	0.12868	292.7187	68	68	110	116	0.11
		PETmy	-0.01096	0.00577	-1.9	0.05742	0.9891					
		Silt	-0.1435	0.09789	-1.466	0.14268	0.86632					
		PETmy*Silt	0.00028	0.00015	1.834	0.0667	1.00028					
	T X SAND	Intercept	-0.15656	1.52753	-0.102	0.91836	0.85508	76	55	110	116	0.06
		Tmy	0.14284	0.13328	1.072	0.28386	1.15354					
		Sand	0.00695	0.03412	0.204	0.83859	1.00697					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Tmy*Sand	-0.00383	0.0036	-1.065	0.28708	0.99618					
	T X SILT	Intercept	-0.69407	1.53506	-0.452	0.65116	0.49954	70	63	109	116	0.09
		Tmy	-0.0862	0.16375	-0.526	0.59861	0.91741					
		Silt	0.00315	0.03764	0.084	0.93329	1.00316					
		Tmy*Silt	0.00352	0.00391	0.901	0.36771	1.00353					
	T X CLAY	Intercept	-0.04833	1.02779	-0.047	0.96249	0.95282	57	78	103	116	0.05
		Tmy	0.06332	0.11152	0.568	0.57019	1.06537					
		Clay	-0.0948	0.06322	-1.499	0.13375	0.90956					
		Tmy*Clay	0.00439	0.00477	0.921	0.35683	1.0044					
	T X ALL	Intercept	-0.69407	1.53506	-0.452	0.65116	0.49954	70	63	110	116	0.09
		Tmy	-0.0862	0.16375	-0.526	0.59861	0.91741					
		Silt	0.00315	0.03764	0.084	0.93329	1.00316					
		Tmy*Silt	0.00352	0.00391	0.901	0.36771	1.00353					
	P X SAND	Intercept	-1.17677	1.72589	-0.682	0.49534	0.30827	76	58	110	116	0.09
		Pmy	0.00221	0.00174	1.269	0.20455	1.00221					
		Sand	-0.0011	0.03521	-0.031	0.97499	0.9989					
		Pmy*Sand	-0.00002	0.00004	-0.478	0.63269	0.99998					
	P X SILT	Intercept	-1.62739	1.60672	-1.013	0.31113	0.19644	72	70	109	116	0.12
		Pmy	0.00028	0.00206	0.138	0.89029	1.00028					
		Silt	0.01026	0.03647	0.281	0.77839	1.01032					
		Pmy*Silt	0.00003	0.00004	0.573	0.56698	1.00003					
	P X CLAY	Intercept	-0.11082	0.88493	-0.125	0.90034	0.8951	66	63	103	116	0.12
		Pmy	0.00084	0.00088	0.952	0.34131	1.00084					
		Clay	-0.15971	0.07702	-2.074	0.03811	0.85239					
		Pmy*Clay	0.00011	0.00006	1.817	0.06926	1.00011					
	P X ALL	Intercept	-2.30413	0.68133	-3.382	0.00072	0.09985	70	70	110	116	0.12
		Pmy	0.00163	0.00065	2.514	0.01195	1.00163					
		Silt	0.02694	0.0125	2.156	0.03109	1.02731					
		Clay	-0.01658	0.0194	-0.854	0.39283	0.98356					
	NPP X SAND	Intercept	-0.45373	2.59505	-0.175	0.8612	0.63526	74	68	110	116	0.07
		NPP_lim	0.00118	0.00202	0.583	0.56017	1.00118					
		Sand	-0.01956	0.06142	-0.318	0.75011	0.98063					
		NPP_lim*Sand	0	0.00005	-0.012	0.99032	1					
	NPP X SILT	Intercept	-0.05034	2.69444	-0.019	0.98509	0.95091	74	70	109	116	0.12
		NPP_lim	-0.00128	0.0024	-0.534	0.59302	0.99872					
		Silt	-0.04517	0.06715	-0.673	0.50119	0.95584					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		NPP_lim*Silt	0.00007	0.00006	1.189	0.23426	1.00007					
	NPP X CLAY	Intercept	-2.16641	1.7563	-1.234	0.21739	0.11459	71	65	103	116	0.08
		NPP_lim	0.00235	0.00148	1.59	0.11173	1.00236					
		Clay	-0.08232	0.09353	-0.88	0.37877	0.92098					
		NPP_lim*Clay	0.00003	0.00006	0.407	0.68378	1.00003					
	NPP X ALL	Intercept	-3.3692	0.99009	-3.403	0.00067	0.03442	68	68	110	116	0.12
		NPP_lim	0.00222	0.00092	2.404	0.0162	1.00222					
		Silt	0.02832	0.01211	2.338	0.01937	1.02873					
		Clay	-0.03118	0.02256	-1.382	0.16688	0.9693					
PAN	GCI X SAND	Intercept	1.3917	1.19197	1.168	0.24298	4.02169	38	88	111	117	0.04
		GCI	-0.04251	0.0314	-1.354	0.17569	0.95838					
		Sand	-0.009	0.02111	-0.426	0.67005	0.99105					
		GCI*Sand	0.00034	0.00062	0.55	0.58219	1.00034					
	GCI X SILT	Intercept	-0.1928	1.12757	-0.171	0.86424	0.82465	35	84	110	117	0.06
		GCI	0.02591	0.03749	0.691	0.48952	1.02625					
		Silt	0.04268	0.03591	1.188	0.23465	1.0436					
		GCI*Silt	-0.00175	0.0012	-1.461	0.14411	0.99825					
	GCI X CLAY	Intercept	1.00301	0.85503	1.173	0.24077	2.72647	42	65	105	117	0.05
		GCI	-0.04086	0.029	-1.409	0.15897	0.95997					
		Clay	0.03787	0.04784	0.792	0.42861	1.0386					
		GCI*Clay	-0.00012	0.00108	-0.113	0.90985	0.99988					
	GCI X ALL	Intercept	0.73383	0.82453	0.89	0.37347	2.08304	55	65	111	117	0.05
		GCI	-0.04173	0.01714	-2.435	0.01489	0.95912					
		Clay	0.03569	0.02315	1.542	0.12313	1.03634					
		Sand	0.00537	0.01071	0.501	0.61634	1.00538					
	AI X SAND	Intercept	-2.27626	1.63448	-1.393	0.16372	0.10267	70	47	110	117	0.06
		AI	1.16055	1.16151	0.999	0.31771	3.19167					
		Sand	0.01849	0.03296	0.561	0.57488	1.01866					
		AI*Sand	-0.00121	0.02524	-0.048	0.96172	0.99879					
	AI X SILT	Intercept	1.30687	1.52622	0.856	0.39184	3.69461	70	63	109	117	0.08
		AI	-0.4907	1.33553	-0.367	0.71331	0.6122					
		Silt	-0.0705	0.03643	-1.935	0.05295	0.93193					
		AI*Silt	0.03833	0.02803	1.367	0.17157	1.03907					
	AI X CLAY	Intercept	-2.60311	0.88803	-2.931	0.00338	0.07404	86	39	103	117	0.08
		AI	1.95292	0.63196	3.09	0.002	7.04924					
		Clay	0.12336	0.06	2.056	0.03979	1.13129					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI*Clay	-0.0947	0.04533	-2.089	0.0367	0.90965					
	AI X ALL	Intercept	1.30687	1.52622	0.856	0.39184	3.69461	70	63	110	117	0.08
		AI	-0.4907	1.33553	-0.367	0.71331	0.6122					
		Silt	-0.0705	0.03643	-1.935	0.05295	0.93193					
		AI*Silt	0.03833	0.02803	1.367	0.17157	1.03907					
	PET X SAND	Intercept	1.07471	2.16074	0.497	0.61892	2.92915	45	67	110	117	0.01
		PETmy	-0.00221	0.003	-0.739	0.46001	0.99779					
		Sand	-0.02648	0.04708	-0.563	0.57376	0.97386					
		PETmy*Sand	0.00005	0.00007	0.771	0.44047	1.00005					
	PET X SILT	Intercept	-1.55874	2.99454	-0.521	0.6027	0.2104	44	67	109	117	0.01
		PETmy	0.00294	0.00449	0.655	0.51277	1.00295					
		Silt	0.05625	0.08287	0.679	0.49733	1.05786					
		PETmy*Silt	-0.0001	0.00013	-0.792	0.42827	0.9999					
	PET X CLAY	Intercept	-0.33893	1.59918	-0.212	0.83215	0.71253	18	90	103	117	0
		PETmy	0.0006	0.00247	0.243	0.8078	1.0006					
		Clay	0.02687	0.07831	0.343	0.73149	1.02724					
		PETmy*Clay	-0.00004	0.0001	-0.423	0.67242	0.99996					
	PET X ALL	Intercept	1.07471	2.16074	0.497	0.61892	2.92915	45	67	110	117	0.01
		PETmy	-0.00221	0.003	-0.739	0.46001	0.99779					
		Sand	-0.02648	0.04708	-0.563	0.57376	0.97386					
		PETmy*Sand	0.00005	0.00007	0.771	0.44047	1.00005					
	T X SAND	Intercept	2.12439	1.52518	1.393	0.16366	8.36775	64	65	110	117	0.06
		Tmy	-0.28012	0.13616	-2.057	0.03966	0.75569					
		Sand	-0.07409	0.03468	-2.136	0.03266	0.92859					
		Tmy*Sand	0.00985	0.00365	2.699	0.00696	1.0099					
	T X SILT	Intercept	-2.05105	1.42806	-1.436	0.15093	0.1286	61	57	109	117	0.03
		Tmy	0.26721	0.155	1.724	0.08472	1.30632					
		Silt	0.0467	0.03641	1.282	0.19969	1.0478					
		Tmy*Silt	-0.00607	0.00383	-1.587	0.11256	0.99395					
	T X CLAY	Intercept	-1.04391	0.97948	-1.066	0.28653	0.35208	65	57	103	117	0.01
		Tmy	0.13611	0.10816	1.258	0.20824	1.14581					
		Clay	0.02712	0.05463	0.496	0.61958	1.02749					
		Tmy*Clay	-0.00391	0.00438	-0.894	0.37144	0.9961					
	T X ALL	Intercept	2.12439	1.52518	1.393	0.16366	8.36775	64	65	110	117	0.06
		Tmy	-0.28012	0.13616	-2.057	0.03966	0.75569					
		Sand	-0.07409	0.03468	-2.136	0.03266	0.92859					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Tmy*Sand	0.00985	0.00365	2.699	0.00696	1.0099					
	P X SAND	Intercept	-0.73881	1.69031	-0.437	0.66205	0.47768	77	51	110	117	0.08
		Pmy	-0.00049	0.00174	-0.283	0.77685	0.99951					
		Sand	-0.02251	0.03502	-0.643	0.52028	0.97774					
		Pmy*Sand	0.00006	0.00004	1.408	0.15912	1.00006					
	P X SILT	Intercept	1.32051	1.43314	0.921	0.35683	3.74533	64	67	109	117	0.06
		Pmy	-0.00097	0.00184	-0.528	0.59753	0.99903					
		Silt	-0.06641	0.03631	-1.829	0.06742	0.93575					
		Pmy*Silt	0.00006	0.00004	1.388	0.16512	1.00006					
	P X CLAY	Intercept	-2.63694	0.88039	-2.995	0.00274	0.07158	73	49	103	117	0.08
		Pmy	0.00304	0.00094	3.235	0.00121	1.00304					
		Clay	0.11567	0.05629	2.055	0.0399	1.12263					
		Pmy*Clay	-0.00012	0.00005	-2.48	0.01314	0.99988					
	P X ALL	Intercept	-0.73881	1.69031	-0.437	0.66205	0.47768	77	51	110	117	0.08
		Pmy	-0.00049	0.00174	-0.283	0.77685	0.99951					
		Sand	-0.02251	0.03502	-0.643	0.52028	0.97774					
		Pmy*Sand	0.00006	0.00004	1.408	0.15912	1.00006					
	NPP X SAND	Intercept	1.92465	2.47075	0.779	0.43599	6.85277	80	61	110	117	0.06
		NPP_lim	-0.00232	0.00194	-1.2	0.23006	0.99768					
		Sand	-0.09954	0.05825	-1.709	0.08745	0.90525					
		NPP_lim*Sand	0.0001	0.00005	2.066	0.03883	1.0001					
	NPP X SILT	Intercept	0.0072	2.41728	0.003	0.99762	1.00723	64	65	109	117	0.02
		NPP_lim	0.00036	0.00215	0.165	0.8687	1.00036					
		Silt	-0.02815	0.06304	-0.447	0.65518	0.97224					
		NPP_lim*Silt	0.00001	0.00005	0.263	0.79256	1.00001					
	NPP X CLAY	Intercept	-3.96753	1.71051	-2.32	0.02037	0.01892	70	51	103	117	0.04
		NPP_lim	0.00355	0.00146	2.429	0.01512	1.00355					
		Clay	0.13041	0.08016	1.627	0.10375	1.1393					
		NPP_lim*Clay	-0.00011	0.00006	-1.942	0.05214	0.99989					
	NPP X ALL	Intercept	1.92465	2.47075	0.779	0.43599	6.85277	80	61	110	117	0.06
		NPP_lim	-0.00232	0.00194	-1.2	0.23006	0.99768					
		Sand	-0.09954	0.05825	-1.709	0.08745	0.90525					
		NPP_lim*Sand	0.0001	0.00005	2.066	0.03883	1.0001					
COL	GCI X SAND	Intercept	3.77056	1.67559	2.25	0.02443	43.40452	60	82	111	117	0.23

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		GCI	-0.06787	0.04667	-1.454	0.14592	0.93438					
		Sand	0.00665	0.03407	0.195	0.84533	1.00667					
		GCI*Sand	-0.00127	0.00116	-1.099	0.27192	0.99873					
	GCI X SILT	Intercept	2.52149	1.63154	1.545	0.12223	12.4471	63	84	109	117	0.28
		GCI	-0.13795	0.05963	-2.313	0.02071	0.87115					
		Silt	0.03132	0.04145	0.756	0.44995	1.03181					
		GCI*Silt	0.00054	0.00132	0.412	0.68019	1.00054					
	GCI X CLAY	Intercept	4.61827	1.49205	3.095	0.00197	101.3191	67	81	104	117	0.28
		GCI	-0.10688	0.04883	-2.189	0.02861	0.89864					
		Clay	-0.20417	0.07506	-2.72	0.00653	0.81532					
		GCI*Clay	0.00306	0.00186	1.648	0.09937	1.00306					
	GCI X ALL	Intercept	1.91212	0.86852	2.202	0.02769	6.76744	65	82	111	117	0.32
		Silt	0.03926	0.01424	2.758	0.00582	1.04004					
		Clay	-0.0789	0.03205	-2.462	0.01381	0.92413					
		GCI	-0.07684	0.03513	-2.187	0.02873	0.92604					
	AI X SAND	Intercept	1.83675	1.71747	1.069	0.28487	6.27611	75	46	110	117	0.11
		AI	-1.86056	1.28218	-1.451	0.14676	0.15559					
		Sand	-0.07891	0.03726	-2.118	0.03418	0.92412					
		AI*Sand	0.07545	0.0301	2.507	0.01218	1.07837					
	AI X SILT	Intercept	-4.02493	1.60692	-2.505	0.01225	0.01786	60	60	108	117	0.1
		AI	2.6918	1.39522	1.929	0.05369	14.75826					
		Silt	0.07008	0.03472	2.018	0.04356	1.07259					
		AI*Silt	-0.03955	0.02757	-1.434	0.15148	0.96122					
	AI X CLAY	Intercept	-0.2217	1.09487	-0.202	0.83954	0.80116	75	81	102	117	0.26
		AI	1.43721	0.87949	1.634	0.10223	4.20894					
		Clay	-0.06299	0.08344	-0.755	0.45031	0.93896					
		AI*Clay	-0.05105	0.06933	-0.736	0.46148	0.95023					
	AI X ALL	Intercept	-0.54795	0.75414	-0.727	0.46748	0.57813	78	74	110	117	0.3
		Silt	0.06435	0.0232	2.774	0.00554	1.06647					
		Clay	0.00134	0.06961	0.019	0.98466	1.00134					
		Silt*Clay	-0.00422	0.00219	-1.921	0.05469	0.99579					
	PET X SAND	Intercept	3.89681	2.44582	1.593	0.1111	49.24496	53	84	110	117	0.08
		PETmy	-0.00509	0.00349	-1.456	0.14527	0.99493					
		Sand	-0.01432	0.05298	-0.27	0.78693	0.98578					
		PETmy*Sand	0.00001	0.00008	0.129	0.89731	1.00001					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	PET X SILT	Intercept	6.55857	3.54313	1.851	0.06416	705.2591	62	81	108	117	0.14
		PETmy	-0.01162	0.00545	-2.133	0.03293	0.98844					
		Silt	-0.10979	0.09581	-1.146	0.25184	0.89602					
		PETmy*Silt	0.00022	0.00015	1.465	0.143	1.00022					
	PET X CLAY	Intercept	2.09657	1.94799	1.076	0.2818	8.13823	73	79	102	117	0.24
		PETmy	-0.00033	0.00294	-0.111	0.912	0.99967					
		Clay	-0.25604	0.12278	-2.085	0.03705	0.77411					
		PETmy*Clay	0.00014	0.00015	0.922	0.35659	1.00014					
	PET X ALL	Intercept	-0.54795	0.75414	-0.727	0.46748	0.57813	78	74	110	117	0.3
		Silt	0.06435	0.0232	2.774	0.00554	1.06647					
		Clay	0.00134	0.06961	0.019	0.98466	1.00134					
		Silt*Clay	-0.00422	0.00219	-1.921	0.05469	0.99579					
	T X SAND	Intercept	6.09372	1.69226	3.601	0.00032	443.0656	62	81	110	117	0.12
		Tmy	-0.6073	0.15631	-3.885	0.0001	0.54482					
		Sand	-0.14119	0.0374	-3.775	0.00016	0.86833					
		Tmy*Sand	0.01545	0.00394	3.921	0.00009	1.01557					
	T X SILT	Intercept	-3.11136	1.4527	-2.142	0.03221	0.04454	73	58	108	117	0.1
		Tmy	0.18564	0.14927	1.244	0.21362	1.20399					
		Silt	0.10233	0.03797	2.695	0.00704	1.10775					
		Tmy*Silt	-0.0068	0.00365	-1.861	0.06276	0.99323					
	T X CLAY	Intercept	0.06422	1.20445	0.053	0.95748	1.06632	72	79	102	117	0.28
		Tmy	0.22236	0.13446	1.654	0.09819	1.24902					
		Clay	-0.14754	0.08076	-1.827	0.06769	0.86283					
		Tmy*Clay	-0.00177	0.00664	-0.266	0.79035	0.99824					
	T X ALL	Intercept	1.76102	1.11915	1.574	0.1156	5.81836	78	77	110	117	0.3
		Tmy	0.15278	0.07774	1.965	0.04938	1.16507					
		Clay	-0.1743	0.03175	-5.489	0	0.84004					
		Sand	-0.01972	0.01323	-1.491	0.13605	0.98047					
	P X SAND	Intercept	4.79992	1.81106	2.65	0.00804	121.5011	77	65	110	117	0.11
		Pmy	-0.00624	0.00202	-3.093	0.00198	0.99378					
		Sand	-0.13114	0.04059	-3.231	0.00123	0.8771					
		Pmy*Sand	0.00018	0.00005	3.499	0.00047	1.00018					
	P X SILT	Intercept	-0.53922	1.45499	-0.371	0.71093	0.5832	78	58	108	117	0.06
		Pmy	-0.00099	0.00193	-0.513	0.60813	0.99901					
		Silt	0.01792	0.03489	0.514	0.60746	1.01808					
		Pmy*Silt	0.00002	0.00004	0.467	0.64059	1.00002					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	P X CLAY	Intercept	0.17825	1.04509	0.171	0.86457	1.19513	72	81	102	117	0.27
		Pmy	0.00196	0.00124	1.583	0.11351	1.00196					
		Clay	-0.13157	0.0772	-1.704	0.08832	0.87672					
		Pmy*Clay	-0.00001	0.00007	-0.15	0.88087	0.99999					
	P X ALL	Intercept	-0.19258	0.68426	-0.281	0.77837	0.82482	72	77	110	117	0.29
		Pmy	0.00139	0.00084	1.651	0.09865	1.00139					
		Clay	-0.1366	0.02836	-4.818	0	0.87232					
		Silt	0.01994	0.01281	1.557	0.1195	1.02014					
	NPP X SAND	Intercept	12.7395	3.15885	4.033	0.00006	10000+	67	72	110	117	0.17
		NPP_lim	-0.01067	0.00252	-4.236	0.00002	0.98938					
		Sand	-0.32093	0.07409	-4.331	0.00001	0.72547					
		NPP_lim*Sand	0.00028	0.00006	4.426	0.00001	1.00028					
	NPP X SILT	Intercept	-4.91705	2.79358	-1.76	0.07839	0.00732	68	61	108	117	0.09
		NPP_lim	0.00313	0.00241	1.297	0.19464	1.00314					
		Silt	0.16594	0.07727	2.148	0.03175	1.1805					
		NPP_lim*Silt	-0.00011	0.00006	-1.735	0.08281	0.99989					
	NPP X CLAY	Intercept	-1.71525	1.99246	-0.861	0.38931	0.17992	70	81	102	117	0.28
		NPP_lim	0.00322	0.00179	1.799	0.07198	1.00323					
		Clay	-0.11175	0.10973	-1.018	0.30849	0.89427					
		NPP_lim*Clay	-0.00004	0.00008	-0.432	0.6661	0.99996					
	NPP X ALL	Intercept	0.80508	1.57869	0.51	0.61007	2.23688	72	77	110	117	0.29
		NPP_lim	0.00201	0.00114	1.772	0.07642	1.00201					
		Clay	-0.16745	0.0312	-5.367	0	0.84582					
		Sand	-0.02051	0.01297	-1.582	0.11372	0.97969					
EAR	GCI X SAND	Intercept	-1.85502	1.45376	-1.276	0.20195	0.15645	65	61	111	117	0.13
		GCI	0.02089	0.03731	0.56	0.57551	1.02111					
		Sand	0.06485	0.0297	2.184	0.02899	1.067					
		GCI*Sand	-0.00129	0.00088	-1.467	0.14232	0.99871					
	GCI X SILT	Intercept	9.40661	2.26256	4.158	0.00003	10000+	72	70	109	117	0.24
		GCI	-0.26284	0.06972	-3.77	0.00016	0.76886					
		Silt	-0.22231	0.05683	-3.912	0.00009	0.80067					
		GCI*Silt	0.00611	0.0017	3.587	0.00033	1.00613					
	GCI X CLAY	Intercept	0.4212	0.94193	0.447	0.65475	1.52379	83	31	106	117	0.1
		GCI	-0.01404	0.03305	-0.425	0.67088	0.98605					
		Clay	0.08983	0.05392	1.666	0.09571	1.09398					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		GCI*Clay	-0.00208	0.00145	-1.434	0.15145	0.99792					
	GCI X ALL	Intercept	9.40661	2.26256	4.158	0.00003	10000+	72	70	111	117	0.24
		GCI	-0.26284	0.06972	-3.77	0.00016	0.76886					
		Silt	-0.22231	0.05683	-3.912	0.00009	0.80067					
		GCI*Silt	0.00611	0.0017	3.587	0.00033	1.00613					
	AI X SAND	Intercept	-1.55416	1.83894	-0.845	0.39803	0.21137	61	56	110	117	0.08
		AI	-0.09517	1.34938	-0.071	0.94377	0.90922					
		Sand	0.03311	0.03637	0.91	0.36259	1.03366					
		AI*Sand	0.0008	0.0283	0.028	0.97733	1.0008					
	AI X SILT	Intercept	2.73985	1.50726	1.818	0.0691	15.48462	65	62	108	117	0.06
		AI	-1.40902	1.31087	-1.075	0.28243	0.24438					
		Silt	-0.06943	0.03583	-1.938	0.05268	0.93293					
		AI*Silt	0.03188	0.0272	1.172	0.24122	1.03239					
	AI X CLAY	Intercept	-0.27586	0.82161	-0.336	0.73706	0.75892	76	37	103	117	0.07
		AI	0.46168	0.57378	0.805	0.42104	1.58673					
		Clay	0.10712	0.06619	1.618	0.10556	1.11307					
		AI*Clay	-0.1156	0.05319	-2.173	0.02975	0.89083					
	AI X ALL	Intercept	-3.66973	1.78183	-2.06	0.03944	0.02548	48	82	110	117	0.13
		Sand	0.08457	0.02803	3.017	0.00255	1.08825					
		Silt	0.06176	0.02944	2.098	0.03591	1.0637					
		Sand*Silt	-0.00178	0.00067	-2.634	0.00845	0.99822					
	PET X SAND	Intercept	1.15671	2.61532	0.442	0.65828	3.17946	70	56	110	117	0.1
		PETmy	-0.00443	0.00372	-1.193	0.233	0.99558					
		Sand	-0.0477	0.05477	-0.871	0.38382	0.95342					
		PETmy*Sand	0.00013	0.00008	1.562	0.11838	1.00013					
	PET X SILT	Intercept	6.19637	3.16243	1.959	0.05007	490.9619	61	70	108	117	0.07
		PETmy	-0.00756	0.00469	-1.611	0.10712	0.99247					
		Silt	-0.1572	0.08548	-1.839	0.0659	0.85453					
		PETmy*Silt	0.00019	0.00013	1.497	0.1345	1.00019					
	PET X CLAY	Intercept	-6.25509	2.57738	-2.427	0.01523	0.00192	72	44	103	117	0.09
		PETmy	0.01031	0.00411	2.505	0.01224	1.01036					
		Clay	0.24764	0.10899	2.272	0.02307	1.281					
		PETmy*Clay	-0.00041	0.00016	-2.594	0.00948	0.99959					
	PET X ALL	Intercept	1.15671	2.61532	0.442	0.65828	3.17946	70	56	110	117	0.1
		PETmy	-0.00443	0.00372	-1.193	0.233	0.99558					
		Sand	-0.0477	0.05477	-0.871	0.38382	0.95342					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy*Sand	0.00013	0.00008	1.562	0.11838	1.00013					
	T X SAND	Intercept	-1.92005	1.80819	-1.062	0.2883	0.1466	67	73	110	117	0.2
		Tmy	-0.09403	0.14991	-0.627	0.53048	0.91025					
		Sand	-0.0205	0.03857	-0.531	0.59508	0.97971					
		Tmy*Sand	0.00909	0.00401	2.267	0.02339	1.00913					
	T X SILT	Intercept	4.69794	1.55797	3.015	0.00257	109.7208	76	58	108	117	0.13
		Tmy	-0.35411	0.15629	-2.266	0.02347	0.7018					
		Silt	-0.15205	0.04349	-3.496	0.00047	0.85895					
		Tmy*Silt	0.01158	0.00399	2.902	0.00371	1.01165					
	T X CLAY	Intercept	-6.93021	1.61277	-4.297	0.00002	0.00098	83	76	103	117	0.25
		Tmy	0.84169	0.18376	4.58	0	2.32029					
		Clay	0.26806	0.07903	3.392	0.00069	1.30742					
		Tmy*Clay	-0.0308	0.00767	-4.014	0.00006	0.96967					
	T X ALL	Intercept	-1.92005	1.80819	-1.062	0.2883	0.1466	67	73	110	117	0.2
		Tmy	-0.09403	0.14991	-0.627	0.53048	0.91025					
		Sand	-0.0205	0.03857	-0.531	0.59508	0.97971					
		Tmy*Sand	0.00909	0.00401	2.267	0.02339	1.00913					
	P X SAND	Intercept	-0.14024	1.79678	-0.078	0.93779	0.86915	70	51	110	117	0.08
		Pmy	-0.00178	0.00195	-0.912	0.36159	0.99822					
		Sand	0.00224	0.03581	0.063	0.95014	1.00224					
		Pmy*Sand	0.00004	0.00004	0.914	0.36058	1.00004					
	P X SILT	Intercept	4.57399	1.5319	2.986	0.00283	96.93031	67	59	108	117	0.09
		Pmy	-0.00471	0.002	-2.357	0.01842	0.9953					
		Silt	-0.10488	0.03791	-2.767	0.00566	0.90043					
		Pmy*Silt	0.0001	0.00004	2.25	0.02444	1.0001					
	P X CLAY	Intercept	-0.91984	0.82148	-1.12	0.26283	0.39858	52	45	103	117	0.09
		Pmy	0.00113	0.00087	1.303	0.19243	1.00113					
		Clay	0.13925	0.06017	2.314	0.02065	1.14941					
		Pmy*Clay	-0.00016	0.00006	-2.674	0.00749	0.99984					
	P X ALL	Intercept	-3.66973	1.78183	-2.06	0.03944	0.02548	48	82	110	117	0.13
		Sand	0.08457	0.02803	3.017	0.00255	1.08825					
		Silt	0.06176	0.02944	2.098	0.03591	1.0637					
		Sand*Silt	-0.00178	0.00067	-2.634	0.00845	0.99822					
	NPP X SAND	Intercept	0.58566	2.7057	0.216	0.82863	1.79618	63	51	110	117	0.09

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		NPP_lim	-0.00196	0.00216	-0.908	0.36362	0.99804					
		Sand	-0.02856	0.0596	-0.479	0.63183	0.97185					
		NPP_lim*Sand	0.00006	0.00005	1.096	0.27308	1.00006					
	NPP X SILT	Intercept	9.75282	3.20643	3.042	0.00235	10000+	65	66	108	117	0.11
		NPP_lim	-0.00766	0.00277	-2.76	0.00578	0.99237					
		Silt	-0.25178	0.08884	-2.834	0.0046	0.77742					
		NPP_lim*Silt	0.00019	0.00007	2.623	0.00871	1.00019					
	NPP X CLAY	Intercept	-4.32333	1.80072	-2.401	0.01636	0.01326	80	61	103	117	0.11
		NPP_lim	0.00382	0.00154	2.486	0.01291	1.00383					
		Clay	0.29743	0.10278	2.894	0.0038	1.34639					
		NPP_lim*Clay	-0.00025	0.00008	-3.016	0.00256	0.99975					
	NPP X ALL	Intercept	0.58566	2.7057	0.216	0.82863	1.79618	63	51	110	117	0.09
		NPP_lim	-0.00196	0.00216	-0.908	0.36362	0.99804					
		Sand	-0.02856	0.0596	-0.479	0.63183	0.97185					
		NPP_lim*Sand	0.00006	0.00005	1.096	0.27308	1.00006					
ERO	GCI X SAND	Intercept	QS					92	55	112	117	0.2
		GCI	QS									
		Sand	QS									
		GCI*Sand	QS									
	GCI X SILT	Intercept	QS					88	60	111	117	0.2
		GCI	QS									
		Silt	QS									
		GCI*Silt	QS									
	GCI X CLAY	Intercept	QS					85	44	106	117	0.15
		GCI	QS									
		Clay	QS									
		GCI*Clay	QS									
	GCI X ALL	Intercept	QS					85	44	112	117	0.15
		GCI	QS									
		Clay	QS									
		GCI*Clay	QS									
	AI X SAND	Intercept	-2.96795	2.92198	-1.016	0.30976	0.05141	81	48	111	117	0.11
		AI	3.5827	2.51138	1.427	0.1537	35.9706					
		Sand	0.02621	0.0544	0.482	0.62993	1.02656					
		AI*Sand	-0.0425	0.04679	-0.908	0.36364	0.95839					
	AI X SILT	Intercept	2.36883	2.21723	1.068	0.28535	10.68483	81	44	110	117	0.11

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI	-2.45702	2.10943	-1.165	0.24411	0.08569					
		Silt	-0.11053	0.05805	-1.904	0.0569	0.89536					
		AI*Silt	0.10505	0.05471	1.92	0.05485	1.11076					
	AI X CLAY	Intercept	-4.94211	1.28082	-3.859	0.00011	0.00714	77	67	104	117	0.22
		AI	3.22449	1.08305	2.977	0.00291	25.14081					
		Clay	0.24863	0.09135	2.722	0.00649	1.28226					
		AI*Clay	-0.12146	0.07105	-1.709	0.08737	0.88563					
	AI X ALL	Intercept	-4.94211	1.28082	-3.859	0.00011	0.00714	77	67	111	117	0.22
		AI	3.22449	1.08305	2.977	0.00291	25.14081					
		Clay	0.24863	0.09135	2.722	0.00649	1.28226					
		AI*Clay	-0.12146	0.07105	-1.709	0.08737	0.88563					
	PET X SAND	Intercept	-6.16867	4.59396	-1.343	0.17934	0.00209	73	47	111	117	0.08
		PETmy	0.01135	0.00705	1.611	0.10713	1.01142					
		Sand	0.11371	0.08448	1.346	0.17829	1.12043					
		PETmy*Sand	-0.00022	0.00013	-1.639	0.10129	0.99978					
	PET X SILT	Intercept	-2.096	3.69069	-0.568	0.57009	0.12295	65	55	110	117	0.03
		PETmy	0.00236	0.00565	0.418	0.67579	1.00237					
		Silt	0.01403	0.10711	0.131	0.89576	1.01413					
		PETmy*Silt	0	0.00016	-0.015	0.98813	1					
	PET X CLAY	Intercept	QS					62	55	104	117	0.13
		PETmy	QS									
		Clay	QS									
		PETmy*Clay	QS									
	PET X ALL	Intercept	1350.085	1278.513	1.056	0.29098	10000+	62	57	111	117	0.11
		Sand	-13.51632	12.78562	-1.057	0.29044	0					
		Clay	-13.4352	12.78399	-1.051	0.29328	0					
		Silt	-13.5	12.78496	-1.056	0.291	0					
	T X SAND	Intercept	-8.47486	3.9828	-2.128	0.03335	0.00021	81	53	111	117	0.14
		Tmy	1.08628	0.47105	2.306	0.02111	2.96323					
		Sand	0.16051	0.07523	2.134	0.03288	1.17411					
		Tmy*Sand	-0.02117	0.00886	-2.389	0.01689	0.97905					
	T X SILT	Intercept	5.99658	2.74773	2.182	0.02908	402.0502	85	55	110	117	0.12
		Tmy	-0.76312	0.32648	-2.337	0.01942	0.46621					
		Silt	-0.20797	0.08037	-2.588	0.00966	0.81223					
		Tmy*Silt	0.02602	0.00983	2.646	0.00814	1.02636					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	T X CLAY	Intercept	-1.44184	1.34111	-1.075	0.28233	0.23649	69	54	104	117	0.09
		Tmy	0.07829	0.15319	0.511	0.60931	1.08143					
		Clay	0.07755	0.08997	0.862	0.3887	1.08064					
		Tmy*Clay	-0.00076	0.00824	-0.092	0.92667	0.99924					
	T X ALL	Intercept	1350.085	1278.513	1.056	0.29098	10000+	62	57	111	117	0.11
		Sand	-13.5163	12.78562	-1.057	0.29044	0					
		Clay	-13.4352	12.78399	-1.051	0.29328	0					
		Silt	-13.5	12.78496	-1.056	0.291	0					
	P X SAND	Intercept	-5.47598	3.30661	-1.656	0.09771	0.00419	92	45	111	117	0.17
		Pmy	0.0085	0.00477	1.781	0.07483	1.00854					
		Sand	0.06047	0.06365	0.95	0.34211	1.06234					
		Pmy*Sand	-0.00011	0.00009	-1.14	0.25426	0.99989					
	P X SILT	Intercept	1.39851	2.74339	0.51	0.61021	4.04915	100	45	110	117	0.17
		Pmy	-0.00249	0.00421	-0.592	0.55387	0.99751					
		Silt	-0.11014	0.07109	-1.549	0.12135	0.89571					
		Pmy*Silt	0.00016	0.00011	1.486	0.1372	1.00016					
	P X CLAY	Intercept	-4.59343	1.36673	-3.361	0.00078	0.01012	77	66	104	117	0.22
		Pmy	0.00495	0.00195	2.544	0.01094	1.00496					
		Clay	0.16551	0.09459	1.75	0.08016	1.17999					
		Pmy*Clay	-0.0001	0.00012	-0.855	0.39271	0.9999					
	P X ALL	Intercept	-4.59343	1.36673	-3.361	0.00078	0.01012	77	66	111	117	0.22
		Pmy	0.00495	0.00195	2.544	0.01094	1.00496					
		Clay	0.16551	0.09459	1.75	0.08016	1.17999					
		Pmy*Clay	-0.0001	0.00012	-0.855	0.39271	0.9999					
	NPP X SAND	Intercept	-10.2053	5.16661	-1.975	0.04824	0.00004	88	47	111	117	0.15
		NPP_lim	0.01015	0.00487	2.082	0.03736	1.0102					
		Sand	0.1186	0.09346	1.269	0.20447	1.12592					
		NPP_lim*Sand	-0.00012	0.00009	-1.425	0.15419	0.99988					
	NPP X SILT	Intercept	3.02921	3.86539	0.784	0.43323	20.680889	88	45	110	117	0.16
		NPP_lim	-0.00315	0.00373	-0.845	0.39816	0.99685					
		Silt	-0.20257	0.10251	-1.976	0.04815	0.81663					
		NPP_lim*Silt	0.00019	0.0001	1.961	0.04988	1.00019					
	NPP X CLAY	Intercept	-7.36342	2.25468	-3.266	0.00109	0.00063	77	69	104	117	0.19
		NPP_lim	0.00599	0.00208	2.878	0.004	1.00601					
		Clay	0.22004	0.14288	1.54	0.12355	1.24613					
		NPP_lim*Clay	-0.00012	0.00012	-0.989	0.32275	0.99988					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	NPP X ALL	Intercept	-7.36342	2.25468	-3.266	0.00109	0.00063	77	69	111	117	0.19
		NPP_lim	0.00599	0.00208	2.878	0.004	1.00601					
		Clay	0.22004	0.14288	1.54	0.12355	1.24613					
		NPP_lim*Clay	-0.00012	0.00012	-0.989	0.32275	0.99988					
PON	GCI X SAND	Intercept	6.77604	2.50901	2.701	0.00692	876.5928	41	85	94	98	0.14
		GCI	-0.18925	0.07086	-2.671	0.00757	0.82758					
		Sand	-0.11856	0.03686	-3.217	0.0013	0.8882					
		GCI*Sand	0.00351	0.00117	2.99	0.00279	1.00352					
	GCI X SILT	Intercept	-3.81478	1.4422	-2.645	0.00817	0.02204	76	62	92	98	0.13
		GCI	0.08491	0.05048	1.682	0.09256	1.08862					
		Silt	0.13058	0.05193	2.514	0.01192	1.13949					
		GCI*Silt	-0.00295	0.00155	-1.909	0.05621	0.99705					
	GCI X CLAY	Intercept	-12.3737	5.13423	-2.41	0.01595	0	76	93	87	98	**0.48**
		GCI	0.51975	0.18691	2.781	0.00542	1.6816					
		Clay	0.75945	0.29592	2.566	0.01028	2.1371					
		GCI*Clay	-0.03059	0.01042	-2.937	0.00332	0.96988					
	GCI X ALL	Intercept	-2.83976	0.85033	-3.34	0.00084	0.05844	88	65	94	98	0.23
		Silt	0.11846	0.03531	3.354	0.0008	1.12576					
		Clay	0.15644	0.07484	2.09	0.03659	1.16934					
		Silt*Clay	-0.00712	0.00267	-2.663	0.00775	0.99291					
	AI X SAND	Intercept	1.67319	2.50733	0.667	0.50457	5.32916	65	54	93	98	0.05
		AI	-0.29573	1.81278	-0.163	0.87041	0.74399					
		Sand	-0.04361	0.04845	-0.9	0.36806	0.95733					
		AI*Sand	0.01634	0.03762	0.434	0.66402	1.01647					
	AI X SILT	Intercept	0.85935	2.52388	0.34	0.73349	2.36162	71	56	91	98	0.11
		AI	-2.1369	2.27228	-0.94	0.347	0.11802					
		Silt	-0.01864	0.06283	-0.297	0.76668	0.98153					
		AI*Silt	0.05325	0.05283	1.008	0.31352	1.05469					
	AI X CLAY	Intercept	-0.96452	1.20454	-0.801	0.42328	0.38116	59	40	85	98	0.05
		AI	1.14295	0.92529	1.235	0.21674	3.136					
		Clay	0.01591	0.06994	0.228	0.82003	1.01604					
		AI*Clay	-0.04497	0.04804	-0.936	0.34919	0.95602					
	AI X ALL	Intercept	-2.83976	0.85033	-3.34	0.00084	0.05844	88	65	93	98	0.23
		Silt	0.11846	0.03531	3.354	0.0008	1.12576					
		Clay	0.15644	0.07484	2.09	0.03659	1.16934					
		Silt*Clay	-0.00712	0.00267	-2.663	0.00775	0.99291					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	PET X SAND	Intercept	14.32851	6.4977	2.205	0.02744	10000+	65	75	93	98	0.09
		PETmy	-0.02005	0.00999	-2.006	0.04482	0.98015					
		Sand	-0.25104	0.12204	-2.057	0.03968	0.77799					
		PETmy*Sand	0.00036	0.00019	1.837	0.06622	1.00036					
	PET X SILT	Intercept	-2.32527	4.0407	-0.575	0.56498	0.09776	76	62	91	98	0.1
		PETmy	0.00124	0.00622	0.2	0.8417	1.00124					
		Silt	0.09533	0.11128	0.857	0.39165	1.10002					
		PETmy*Silt	-0.00008	0.00017	-0.457	0.64736	0.99992					
	PET X CLAY	Intercept	-15.9128	5.90923	-2.693	0.00708	0	65	78	85	98	0.18
		PETmy	0.02644	0.00973	2.717	0.00658	1.02679					
		Clay	1.11499	0.40722	2.738	0.00618	3.04955					
		PETmy*Clay	-0.00178	0.00063	-2.835	0.00458	0.99822					
	PET X ALL	Intercept	-2.83976	0.85033	-3.34	0.00084	0.05844	88	65	93	98	0.23
		Silt	0.11846	0.03531	3.354	0.0008	1.12576					
		Clay	0.15644	0.07484	2.09	0.03659	1.16934					
		Silt*Clay	-0.00712	0.00267	-2.663	0.00775	0.99291					
	T X SAND	Intercept	-4.80045	4.66596	-1.029	0.30356	0.00823	59	70	93	98	0.11
		Tmy	0.6929	0.52887	1.31	0.19014	1.99951					
		Sand	0.12754	0.09175	1.39	0.1645	1.13603					
		Tmy*Sand	-0.01762	0.01041	-1.692	0.09059	0.98254					
	T X SILT	Intercept	10.7003	5.01627	2.133	0.03292	10000+	65	79	91	98	0.2
		Tmy	-1.40566	0.56791	-2.475	0.01332	0.24521					
		Silt	-0.23899	0.12313	-1.941	0.05226	0.78742					
		Tmy*Silt	0.03255	0.01438	2.263	0.02361	1.03308					
	T X CLAY	Intercept	-0.77108	2.72072	-0.283	0.77686	0.46252	41	74	85	98	0.03
		Tmy	0.15083	0.31572	0.478	0.63284	1.1628					
		Clay	0.08289	0.23151	0.358	0.7203	1.08643					
		Tmy*Clay	-0.01421	0.02513	-0.565	0.57182	0.98589					
	T X ALL	Intercept	-2.83976	0.85033	-3.34	0.00084	0.05844	88	65	93	98	0.23
		Silt	0.11846	0.03531	3.354	0.0008	1.12576					
		Clay	0.15644	0.07484	2.09	0.03659	1.16934					
		Silt*Clay	-0.00712	0.00267	-2.663	0.00775	0.99291					
	P X SAND	Intercept	3.28291	2.55218	1.286	0.19833	26.65312	59	59	93	98	0.06
		Pmy	-0.0025	0.00279	-0.898	0.36918	0.9975					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Sand	-0.07783	0.05033	-1.546	0.12201	0.92512					
		Pmy*Sand	0.00007	0.00006	1.153	0.24909	1.00007					
	P X SILT	Intercept	1.53851	3.4151	0.451	0.65235	4.65763	71	57	91	98	0.1
		Pmy	-0.00449	0.005	-0.898	0.3691	0.99552					
		Silt	-0.02638	0.07989	-0.33	0.74121	0.97396					
		Pmy*Silt	0.0001	0.00011	0.898	0.36902	1.0001					
	P X CLAY	Intercept	-1.70726	1.3205	-1.293	0.19605	0.18136	65	40	85	98	0.07
		Pmy	0.00283	0.00177	1.603	0.10904	1.00284					
		Clay	0.06244	0.08146	0.766	0.44339	1.06443					
		Pmy*Clay	-0.00013	0.0001	-1.383	0.16682	0.99987					
	P X ALL	Intercept	-2.83976	0.85033	-3.34	0.00084	0.05844	88	65	93	98	0.23
		Silt	0.11846	0.03531	3.354	0.0008	1.12576					
		Clay	0.15644	0.07484	2.09	0.03659	1.16934					
		Silt*Clay	-0.00712	0.00267	-2.663	0.00775	0.99291					
	NPP X SAND	Intercept	-7.23849	5.6424	-1.283	0.19954	0.00072	76	47	93	98	0.07
		NPP_lim	0.00764	0.00509	1.501	0.13346	1.00767					
		Sand	0.13976	0.10759	1.299	0.19395	1.14999					
		NPP_lim*Sand	-0.00015	0.0001	-1.528	0.12659	0.99985					
	NPP X SILT	Intercept	8.35106	5.39447	1.548	0.1216	4234.666	59	68	91	98	0.14
		NPP_lim	-0.0092	0.00504	-1.825	0.06798	0.99084					
		Silt	-0.19304	0.12569	-1.536	0.12458	0.82445					
		NPP_lim*Silt	0.00022	0.00012	1.868	0.06173	1.00022					
	NPP X CLAY	Intercept	0.15777	2.59776	0.061	0.95157	1.1709	47	67	85	98	0.04
		NPP_lim	0.00037	0.0023	0.162	0.8713	1.00037					
		Clay	-0.09808	0.16133	-0.608	0.5432	0.90657					
		NPP_lim*Clay	0.00004	0.00014	0.318	0.75028	1.00004					
	NPP X ALL	Intercept	-2.83976	0.85033	-3.34	0.00084	0.05844	88	65	93	98	0.23
		Silt	0.11846	0.03531	3.354	0.0008	1.12576					
		Clay	0.15644	0.07484	2.09	0.03659	1.16934					
		Silt*Clay	-0.00712	0.00267	-2.663	0.00775	0.99291					

Table 17. Logistic regression models of the interactions between climate variables and soil texture fractions on the scores of the visual soil quality indicators for **alkaline soils**. Models with two explanatory variables and an interaction term (the product of the two variables). %CP percentage of correct predictions.

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	GCI X SAND	Intercept	2.35869	1.37588	1.714	0.08647	10.57709	52	64	102	110	0.05
		GCI	-0.09343	0.04555	-2.051	0.04028	0.91081					
		Sand	-0.05631	0.02912	-1.934	0.05313	0.94524					
		GCI*Sand	0.0022	0.00095	2.325	0.02009	1.0022					
	GCI X SILT	Intercept	-2.37691	1.2561	-1.892	0.05845	0.09284	56	52	102	110	0.05
		GCI	0.08683	0.03928	2.21	0.02709	1.09071					
		Silt	0.06095	0.03236	1.884	0.05963	1.06285					
		GCI*Silt	-0.00227	0.00104	-2.183	0.02902	0.99773					
	GCI X CLAY	Intercept	-0.66716	0.95651	-0.697	0.48549	0.51316	64	36	102	110	0.01
		GCI	0.02569	0.0297	0.865	0.38714	1.02602					
		Clay	0.02403	0.04772	0.504	0.61461	1.02432					
		GCI*Clay	-0.00098	0.00148	-0.664	0.50679	0.99902					
	GCI X ALL	Intercept	2.35869	1.37588	1.714	0.08647	10.57709	52	64	102	110	0.05
		GCI	-0.09343	0.04555	-2.051	0.04028	0.91081					
		Sand	-0.05631	0.02912	-1.934	0.05313	0.94524					
		GCI*Sand	0.0022	0.00095	2.325	0.02009	1.0022					
	AI X SAND	Intercept	1.03628	0.92289	1.123	0.26149	2.81871	64	50	101	110	0.03
		AI	-2.29092	1.32307	-1.732	0.08336	0.10117					
		Sand	-0.02291	0.02197	-1.043	0.29705	0.97735					
		AI*Sand	0.04895	0.02937	1.667	0.09557	1.05017					
	AI X SILT	Intercept	-1.64504	1.10538	-1.488	0.1367	0.19301	64	50	101	110	0.04
		AI	2.66134	1.44055	1.847	0.06468	14.3155					
		Silt	0.03811	0.0252	1.512	0.13049	1.03884					
		AI*Silt	-0.06021	0.02961	-2.034	0.042	0.94156					
	AI X CLAY	Intercept	0.62781	0.59532	1.055	0.29162	1.8735	50	61	100	110	0.01
		AI	-0.6704	0.70005	-0.958	0.33824	0.51151					
		Clay	-0.02911	0.03164	-0.92	0.35766	0.97131					
		AI*Clay	0.03561	0.05227	0.681	0.49575	1.03625					
	AI X ALL	Intercept	1.03628	0.92289	1.123	0.26149	2.81871	64	50	101	110	0.03
		AI	-2.29092	1.32307	-1.732	0.08336	0.10117					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Sand	-0.02291	0.02197	-1.043	0.29705	0.97735					
		AI*Sand	0.04895	0.02937	1.667	0.09557	1.05017					
	PET X SAND	Intercept	-2.82981	1.70167	-1.663	0.09632	0.05902	70	55	101	110	0.03
		PETmy	0.00239	0.00155	1.536	0.12445	1.00239					
		Sand	0.06283	0.03317	1.894	0.05818	1.06484					
		PETmy*Sand	-0.00006	0.00003	-1.693	0.09054	0.99994					
	PET X SILT	Intercept	2.6466	1.51513	1.747	0.08068	14.10595	52	66	101	110	0.02
		PETmy	-0.00258	0.00161	-1.602	0.10916	0.99743					
		Silt	-0.06925	0.03949	-1.754	0.0795	0.9331					
		PETmy*Silt	0.00007	0.00004	1.616	0.10611	1.00007					
	PET X CLAY	Intercept	0.70769	1.09704	0.645	0.51887	2.0293	61	61	99	110	0.01
		PETmy	-0.00065	0.0012	-0.543	0.58689	0.99935					
		Clay	-0.03297	0.05345	-0.617	0.53734	0.96757					
		PETmy*Clay	0.00003	0.00005	0.547	0.58441	1.00003					
	PET X ALL	Intercept	-1.16526	0.85058	-1.37	0.1707	0.31184	73	59	101	110	0.03
		Sand	0.0313	0.01707	1.833	0.06673	1.03179					
		Clay	0.03934	0.02801	1.405	0.16012	1.04012					
		Sand*Clay	-0.00138	0.00082	-1.675	0.09399	0.99862					
	T X SAND	Intercept	-0.61335	1.76055	-0.348	0.72755	0.54153	64	55	101	110	0.04
		Tmy	0.03908	0.11667	0.335	0.73766	1.03985					
		Sand	0.03416	0.03132	1.091	0.27534	1.03475					
		Tmy*Sand	-0.00262	0.00228	-1.149	0.25044	0.99738					
	T X SILT	Intercept	1.75309	1.27455	1.375	0.16899	5.77242	56	57	101	110	0.03
		Tmy	-0.13385	0.09876	-1.355	0.17533	0.87473					
		Silt	-0.01914	0.03766	-0.508	0.61125	0.98104					
		Tmy*Silt	0.00139	0.0026	0.537	0.59155	1.00139					
	T X CLAY	Intercept	1.88576	0.90371	2.087	0.03692	6.59136	59	55	99	110	0.04
		Tmy	-0.14808	0.07192	-2.059	0.0395	0.86236					
		Clay	-0.04653	0.04688	-0.993	0.32094	0.95454					
		Tmy*Clay	0.0036	0.0034	1.059	0.2897	1.00361					
	T X ALL	Intercept	-0.61335	1.76055	-0.348	0.72755	0.54153	64	55	101	110	0.04
		Tmy	0.03908	0.11667	0.335	0.73766	1.03985					
		Sand	0.03416	0.03132	1.091	0.27534	1.03475					
		Tmy*Sand	-0.00262	0.00228	-1.149	0.25044	0.99738					
	P X SAND	Intercept	0.9216	1.35135	0.682	0.49525	2.5133	45	68	101	110	0.02

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Pmy	-0.00237	0.00231	-1.025	0.30544	0.99764					
		Sand	-0.01103	0.03244	-0.34	0.73377	0.98903					
		Pmy*Sand	0.00004	0.00006	0.654	0.5129	1.00004					
	P X SILT	Intercept	-0.66104	1.44621	-0.457	0.64761	0.51632	24	84	100	110	0.02
		Pmy	0.00154	0.00241	0.64	0.52215	1.00154					
		Silt	0.02466	0.0314	0.785	0.43225	1.02497					
		Pmy*Silt	-0.00005	0.00005	-1.067	0.28575	0.99995					
	P X CLAY	Intercept	1.24894	0.80142	1.558	0.11914	3.48664	59	59	100	110	0.02
		Pmy	-0.00188	0.00131	-1.437	0.15062	0.99812					
		Clay	-0.04132	0.0401	-1.031	0.30274	0.95952					
		Pmy*Clay	0.00006	0.00007	0.86	0.38989	1.00006					
	P X ALL	Intercept	0.9216	1.35135	0.682	0.49525	2.5133	45	68	101	110	0.02
		Pmy	-0.00237	0.00231	-1.025	0.30544	0.99764					
		Sand	-0.01103	0.03244	-0.34	0.73377	0.98903					
		Pmy*Sand	0.00004	0.00006	0.654	0.5129	1.00004					
	NPP X SAND	Intercept	1.00307	1.68071	0.597	0.55063	2.72665	45	68	101	110	0.02
		NPP_lim	-0.00157	0.0018	-0.875	0.38159	0.99843					
		Sand	-0.00882	0.04111	-0.215	0.83014	0.99122					
		NPP_lim*Sand	0.00002	0.00004	0.459	0.64588	1.00002					
	NPP X SILT	Intercept	-0.55159	1.84264	-0.299	0.76468	0.57603	27	77	100	110	0.02
		NPP_lim	0.00087	0.00193	0.45	0.65278	1.00087					
		Silt	0.02641	0.03904	0.677	0.49869	1.02676					
		NPP_lim*Silt	-0.00004	0.00004	-0.914	0.36048	0.99996					
	NPP X CLAY	Intercept	1.79179	1.15761	1.548	0.12166	6.00016	59	50	100	110	0.02
		NPP_lim	-0.00183	0.00125	-1.466	0.14275	0.99818					
		Clay	-0.06127	0.05697	-1.075	0.28222	0.94057					
		NPP_lim*Clay	0.00006	0.00006	0.975	0.3295	1.00006					
	NPP X ALL	Intercept	1.00307	1.68071	0.597	0.55063	2.72665	45	68	101	110	0.02
		NPP_lim	-0.00157	0.0018	-0.875	0.38159	0.99843					
		Sand	-0.00882	0.04111	-0.215	0.83014	0.99122					
		NPP_lim*Sand	0.00002	0.00004	0.459	0.64588	1.00002					
POR	GCI X SAND	Intercept	0.52671	1.31171	0.402	0.68802	1.69336	51	67	103	110	0.02
		GCI	-0.03629	0.04178	-0.869	0.38505	0.96436					
		Sand	-0.0077	0.02574	-0.299	0.76479	0.99233					
		GCI*Sand	0.00067	0.00079	0.849	0.39578	1.00067					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	GCI X SILT	Intercept	-0.0097	1.13864	-0.009	0.9932	0.99034	41	71	102	110	0.02
		GCI	0.01873	0.03419	0.548	0.58387	1.0189					
		Silt	0.0046	0.03045	0.151	0.87987	1.00461					
		GCI*Silt	-0.00068	0.00093	-0.727	0.4672	0.99932					
	GCI X CLAY	Intercept	-0.06091	0.96309	-0.063	0.94958	0.94091	37	79	103	110	0
		GCI	0.00242	0.03006	0.081	0.93572	1.00243					
		Clay	0.00944	0.04775	0.198	0.84323	1.00949					
		GCI*Clay	-0.00033	0.00148	-0.226	0.82155	0.99967					
	GCI X ALL	Intercept	1.66184	1.49161	1.114	0.26523	5.26899	40	76	103	110	0.04
		Sand	-0.03097	0.02519	-1.23	0.2188	0.9695					
		Silt	-0.06063	0.03362	-1.804	0.0713	0.94117					
		Sand*Silt	0.00139	0.00077	1.813	0.06978	1.00139					
	AI X SAND	Intercept	0.78866	0.95802	0.823	0.41038	2.20045	76	43	101	110	0.07
		AI	-1.86597	1.28002	-1.458	0.14491	0.15475					
		Sand	-0.03669	0.02395	-1.532	0.12559	0.96398					
		AI*Sand	0.06748	0.03071	2.197	0.028	1.06981					
	AI X SILT	Intercept	-1.75443	1.14643	-1.53	0.12593	0.17301	84	40	101	110	0.07
		AI	3.459	1.47633	2.343	0.01913	31.78518					
		Silt	0.01961	0.02586	0.758	0.44828	1.0198					
		AI*Silt	-0.05075	0.02868	-1.769	0.07685	0.95052					
	AI X CLAY	Intercept	-0.79495	0.61174	-1.299	0.19378	0.4516	63	45	101	110	0.03
		AI	0.78812	0.65794	1.198	0.23097	2.19926					
		Clay	0.0016	0.03105	0.052	0.95885	1.0016					
		AI*Clay	0.01983	0.05055	0.392	0.69478	1.02003					
	AI X ALL	Intercept	-1.75443	1.14643	-1.53	0.12593	0.17301	84	40	102	110	0.07
		AI	3.459	1.47633	2.343	0.01913	31.78518					
		Silt	0.01961	0.02586	0.758	0.44828	1.0198					
		AI*Silt	-0.05075	0.02868	-1.769	0.07685	0.95052					
	PET X SAND	Intercept	-2.9443	1.72509	-1.707	0.08787	0.05264	75	55	101	110	0.04
		PETmy	0.00249	0.00158	1.574	0.11558	1.00249					
		Sand	0.07607	0.03401	2.237	0.0253	1.07904					
		PETmy*Sand	-0.00007	0.00003	-2.036	0.04179	0.99993					
	PET X SILT	Intercept	2.32529	1.51733	1.532	0.1254	10.22966	65	48	101	110	0.03
		PETmy	-0.0019	0.00162	-1.174	0.24045	0.9981					
		Silt	-0.04706	0.03955	-1.19	0.23417	0.95403					
		PETmy*Silt	0.00003	0.00004	0.834	0.40456	1.00003					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	PET X CLAY	Intercept	2.40248	1.14577	2.097	0.03601	11.05055	60	55	100	110	0.03
		PETmy	-0.00275	0.0013	-2.115	0.03442	0.99726					
		Clay	-0.08673	0.05424	-1.599	0.10982	0.91692					
		PETmy*Clay	0.00009	0.00005	1.81	0.07025	1.00009					
	PET X ALL	Intercept	2.32529	1.51733	1.532	0.1254	10.22966	65	48	102	110	0.03
		PETmy	-0.0019	0.00162	-1.174	0.24045	0.9981					
		Silt	-0.04706	0.03955	-1.19	0.23417	0.95403					
		PETmy*Silt	0.00003	0.00004	0.834	0.40456	1.00003					
	T X SAND	Intercept	-0.59017	1.78759	-0.33	0.74129	0.55424	68	57	101	110	0.03
		Tmy	0.02173	0.1182	0.184	0.85415	1.02197					
		Sand	0.02907	0.03147	0.924	0.35553	1.0295					
		Tmy*Sand	-0.00182	0.00227	-0.803	0.42177	0.99818					
	T X SILT	Intercept	0.47976	1.26097	0.38	0.7036	1.61569	54	60	101	110	0.03
		Tmy	-0.00835	0.09744	-0.086	0.93172	0.99169					
		Silt	0.01317	0.03769	0.349	0.72676	1.01326					
		Tmy*Silt	-0.00168	0.00263	-0.638	0.5233	0.99832					
	T X CLAY	Intercept	2.54557	0.92422	2.754	0.00588	12.75047	66	67	100	110	0.06
		Tmy	-0.21254	0.07505	-2.832	0.00463	0.80853					
		Clay	-0.09453	0.04836	-1.955	0.05063	0.9098					
		Tmy*Clay	0.00768	0.0035	2.192	0.02839	1.00771					
	T X ALL	Intercept	0.47976	1.26097	0.38	0.7036	1.61569	54	60	102	110	0.03
		Tmy	-0.00835	0.09744	-0.086	0.93172	0.99169					
		Silt	0.01317	0.03769	0.349	0.72676	1.01326					
		Tmy*Silt	-0.00168	0.00263	-0.638	0.5233	0.99832					
	P X SAND	Intercept	0.23517	1.36587	0.172	0.8633	1.26512	76	45	101	110	0.04
		Pmy	-0.00149	0.00222	-0.668	0.50385	0.99851					
		Sand	-0.02695	0.03352	-0.804	0.42145	0.97341					
		Pmy*Sand	0.00007	0.00006	1.265	0.20573	1.00007					
	P X SILT	Intercept	-1.27052	1.51935	-0.836	0.40303	0.28069	75	62	100	110	0.04
		Pmy	0.00335	0.00249	1.348	0.17753	1.00336					
		Silt	0.00546	0.03313	0.165	0.86904	1.00548					
		Pmy*Silt	-0.00004	0.00005	-0.835	0.40344	0.99996					
	P X CLAY	Intercept	-0.58175	0.75227	-0.773	0.43933	0.55892	72	45	100	110	0.02
		Pmy	0.00089	0.00111	0.797	0.42569	1.00089					
		Clay	-0.00711	0.03839	-0.185	0.853	0.99291					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Pmy*Clay	0.00002	0.00006	0.285	0.77537	1.00002					
	P X ALL	Intercept	-1.27052	1.51935	-0.836	0.40303	0.28069	75	62	102	110	0.04
		Pmy	0.00335	0.00249	1.348	0.17753	1.00336					
		Silt	0.00546	0.03313	0.165	0.86904	1.00548					
		Pmy*Silt	-0.00004	0.00005	-0.835	0.40344	0.99996					
	NPP X SAND	Intercept	-0.06728	1.69452	-0.04	0.96833	0.93493	72	48	101	110	0.03
		NPP_lim	-0.00055	0.00174	-0.314	0.75324	0.99945					
		Sand	-0.02351	0.04193	-0.561	0.57503	0.97677					
		NPP_lim*Sand	0.00004	0.00004	0.903	0.36641	1.00004					
	NPP X SILT	Intercept	-1.41375	1.91849	-0.737	0.46118	0.24323	66	64	100	110	0.03
		NPP_lim	0.00218	0.00198	1.102	0.27034	1.00218					
		Silt	0.00738	0.04125	0.179	0.85795	1.00741					
		NPP_lim*Silt	-0.00003	0.00004	-0.642	0.52082	0.99997					
	NPP X CLAY	Intercept	-0.4707	1.15611	-0.407	0.68391	0.62457	72	45	100	110	0.01
		NPP_lim	0.00049	0.0012	0.405	0.68516	1.00049					
		Clay	-0.01898	0.05737	-0.331	0.74075	0.9812					
		NPP_lim*Clay	0.00002	0.00006	0.357	0.72074	1.00002					
	NPP X ALL	Intercept	-1.41375	1.91849	-0.737	0.46118	0.24323	66	64	102	110	0.03
		NPP_lim	0.00218	0.00198	1.102	0.27034	1.00218					
		Silt	0.00738	0.04125	0.179	0.85795	1.00741					
		NPP_lim*Silt	-0.00003	0.00004	-0.642	0.52082	0.99997					
STA	GCI X SAND	Intercept	-0.74271	1.38611	-0.536	0.59208	0.47582	58	57	102	110	0.01
		GCI	0.02659	0.04186	0.635	0.52528	1.02695					
		Sand	0.01932	0.02895	0.667	0.50455	1.01951					
		GCI*Sand	-0.00069	0.00088	-0.783	0.43362	0.99931					
	GCI X SILT	Intercept	2.47895	1.57646	1.572	0.11584	11.92874	68	67	101	110	0.05
		GCI	-0.09627	0.05181	-1.858	0.06313	0.90822					
		Silt	-0.05814	0.03609	-1.611	0.10725	0.94352					
		GCI*Silt	0.00225	0.00108	2.083	0.03725	1.00225					
	GCI X CLAY	Intercept	-2.86107	1.33236	-2.147	0.03176	0.05721	51	73	102	110	0.09
		GCI	0.11604	0.04764	2.436	0.01486	1.12304					
		Clay	0.19465	0.0808	2.409	0.01599	1.21489					
		GCI*Clay	-0.00806	0.00326	-2.47	0.0135	0.99197					
	GCI X ALL	Intercept	-18.911	43.25883	-0.437	0.662	0	68	40	102	110	0.02
		Silt	0.19885	0.4323	0.46	0.64552	1.22					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Clay	0.17282	0.43474	0.398	0.69098	1.18865					
		Sand	0.18809	0.43252	0.435	0.66366	1.20694					
	AI X SAND	Intercept	-1.90896	1.05637	-1.807	0.07075	0.14823	75	53	100	110	0.05
		AI	2.84719	1.27756	2.229	0.02584	17.23922					
		Sand	0.03578	0.02423	1.477	0.13979	1.03643					
		AI*Sand	-0.05356	0.03001	-1.785	0.07431	0.94785					
	AI X SILT	Intercept	1.6438	1.21538	1.352	0.17622	5.17479	79	60	100	110	0.06
		AI	-2.69601	1.6134	-1.671	0.09472	0.06747					
		Silt	-0.04571	0.02921	-1.565	0.11755	0.95532					
		AI*Silt	0.06846	0.03212	2.132	0.03304	1.07086					
	AI X CLAY	Intercept	-0.62137	0.66605	-0.933	0.35086	0.53721	75	50	101	110	0.04
		AI	1.30302	0.75	1.737	0.08232	3.68041					
		Clay	0.03184	0.03572	0.891	0.37284	1.03235					
		AI*Clay	-0.0838	0.06167	-1.359	0.17419	0.91961					
	AI X ALL	Intercept	1.6438	1.21538	1.352	0.17622	5.17479	79	60	101	110	0.06
		AI	-2.69601	1.6134	-1.671	0.09472	0.06747					
		Silt	-0.04571	0.02921	-1.565	0.11755	0.95532					
		AI*Silt	0.06846	0.03212	2.132	0.03304	1.07086					
	PET X SAND	Intercept	0.75891	1.84596	0.411	0.68098	2.13595	60	53	100	110	0.02
		PETmy	-0.00082	0.00171	-0.483	0.62886	0.99918					
		Sand	-0.03569	0.03729	-0.957	0.33841	0.96493					
		PETmy*Sand	0.00004	0.00004	1.059	0.28966	1.00004					
	PET X SILT	Intercept	-5.72039	1.88656	-3.032	0.00243	0.00328	75	67	100	110	0.08
		PETmy	0.00545	0.00184	2.968	0.003	1.00547					
		Silt	0.12903	0.04376	2.949	0.00319	1.13773					
		PETmy*Silt	-0.00012	0.00005	-2.722	0.00648	0.99988					
	PET X CLAY	Intercept	2.17018	1.21978	1.779	0.07521	8.75988	60	70	100	110	0.11
		PETmy	-0.00147	0.00127	-1.158	0.24703	0.99854					
		Clay	-0.24634	0.08486	-2.903	0.0037	0.78166					
		PETmy*Clay	0.00018	0.00007	2.738	0.00617	1.00018					
	PET X ALL	Intercept	2.17018	1.21978	1.779	0.07521	8.75988	60	70	101	110	0.11
		PETmy	-0.00147	0.00127	-1.158	0.24703	0.99854					
		Clay	-0.24634	0.08486	-2.903	0.0037	0.78166					
		PETmy*Clay	0.00018	0.00007	2.738	0.00617	1.00018					
	T X SAND	Intercept	-1.83513	2.14763	-0.854	0.39283	0.15959	55	67	100	110	0.02

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Tmy	0.11191	0.13527	0.827	0.40809	1.11841					
		Sand	0.01668	0.03703	0.451	0.65233	1.01682					
		Tmy*Sand	-0.00078	0.0025	-0.313	0.75418	0.99922					
	T X SILT	Intercept	-3.00321	1.57455	-1.907	0.05648	0.04963	46	80	100	110	0.04
		Tmy	0.19441	0.11098	1.752	0.07981	1.2146					
		Silt	0.06723	0.04204	1.599	0.10977	1.06954					
		Tmy*Silt	-0.00406	0.0028	-1.451	0.14674	0.99595					
	T X CLAY	Intercept	1.68321	1.09299	1.54	0.12356	5.38282	44	80	100	110	0.09
		Tmy	-0.08383	0.07789	-1.076	0.28181	0.91958					
		Clay	-0.20491	0.08391	-2.442	0.01461	0.81472					
		Tmy*Clay	0.01167	0.005	2.336	0.01952	1.01174					
	T X ALL	Intercept	1.68321	1.09299	1.54	0.12356	5.38282	44	80	101	110	0.09
		Tmy	-0.08383	0.07789	-1.076	0.28181	0.91958					
		Clay	-0.20491	0.08391	-2.442	0.01461	0.81472					
		Tmy*Clay	0.01167	0.005	2.336	0.01952	1.01174					
	P X SAND	Intercept	-3.15515	1.53637	-2.054	0.04001	0.04263	78	47	100	110	0.06
		Pmy	0.00525	0.00234	2.241	0.02503	1.00526					
		Sand	0.05672	0.03561	1.593	0.11118	1.05836					
		Pmy*Sand	-0.0001	0.00006	-1.681	0.09285	0.9999					
	P X SILT	Intercept	1.63721	1.67343	0.978	0.3279	5.14082	89	27	99	110	0.06
		Pmy	-0.00319	0.00272	-1.171	0.24141	0.99682					
		Silt	-0.05414	0.03792	-1.428	0.15337	0.9473					
		Pmy*Silt	0.0001	0.00005	1.774	0.0761	1.0001					
	P X CLAY	Intercept	-0.95045	0.84028	-1.131	0.25801	0.38657	70	50	100	110	0.04
		Pmy	0.00203	0.00121	1.668	0.09526	1.00203					
		Clay	0.01029	0.04291	0.24	0.8105	1.01034					
		Pmy*Clay	-0.00004	0.00007	-0.63	0.52873	0.99996					
	P X ALL	Intercept	-0.95045	0.84028	-1.131	0.25801	0.38657	70	50	101	110	0.04
		Pmy	0.00203	0.00121	1.668	0.09526	1.00203					
		Clay	0.01029	0.04291	0.24	0.8105	1.01034					
		Pmy*Clay	-0.00004	0.00007	-0.63	0.52873	0.99996					
	NPP X SAND	Intercept	-4.27762	1.96425	-2.178	0.02943	0.01388	76	50	100	110	0.06
		NPP_lim	0.00447	0.00192	2.326	0.02001	1.00448					
		Sand	0.07526	0.0461	1.633	0.10253	1.07816					
		NPP_lim*Sand	-0.00008	0.00005	-1.682	0.09252	0.99992					
	NPP X SILT	Intercept	2.5299	2.19449	1.153	0.24897	12.55227	85	37	99	110	0.08

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		NPP_lim	-0.00289	0.00225	-1.285	0.1989	0.99711					
		Silt	-0.08683	0.0501	-1.733	0.08304	0.91683					
		NPP_lim*Silt	0.00009	0.00005	2.019	0.04349	1.00009					
	NPP X CLAY	Intercept	-2.38196	1.37151	-1.737	0.08243	0.09237	68	50	100	110	0.06
		NPP_lim	0.00286	0.00137	2.084	0.03717	1.00287					
		Clay	0.062	0.06728	0.921	0.35679	1.06396					
		NPP_lim*Clay	-0.00009	0.00007	-1.2	0.23004	0.99991					
	NPP X ALL	Intercept	-2.38196	1.37151	-1.737	0.08243	0.09237	68	50	101	110	0.06
		NPP_lim	0.00286	0.00137	2.084	0.03717	1.00287					
		Clay	0.062	0.06728	0.921	0.35679	1.06396					
		NPP_lim*Clay	-0.00009	0.00007	-1.2	0.23004	0.99991					
PAN	GCI X SAND	Intercept	1.84956	1.99307	0.928	0.35341	6.35705	69	76	102	110	0.17
		GCI	-0.14749	0.0806	-1.83	0.06726	0.86287					
		Sand	-0.00274	0.03594	-0.076	0.93915	0.99726					
		GCI*Sand	0.00184	0.00137	1.337	0.18127	1.00184					
	GCI X SILT	Intercept	1.79938	1.43788	1.251	0.21079	6.04588	57	81	101	110	0.1
		GCI	-0.01787	0.04949	-0.361	0.71808	0.98229					
		Silt	-0.00956	0.04021	-0.238	0.81206	0.99049					
		GCI*Silt	-0.00097	0.00149	-0.654	0.51303	0.99903					
	GCI X CLAY	Intercept	1.13344	1.14485	0.99	0.32216	3.10633	56	76	102	110	0.09
		GCI	-0.01277	0.03923	-0.325	0.74483	0.98731					
		Clay	0.01495	0.06121	0.244	0.80705	1.01506					
		GCI*Clay	-0.00199	0.0022	-0.904	0.36617	0.99801					
	GCI X ALL	Intercept	1.84956	1.99307	0.928	0.35341	6.35705	69	76	102	110	0.17
		GCI	-0.14749	0.0806	-1.83	0.06726	0.86287					
		Sand	-0.00274	0.03594	-0.076	0.93915	0.99726					
		GCI*Sand	0.00184	0.00137	1.337	0.18127	1.00184					
	AI X SAND	Intercept	-0.29875	1.0572	-0.283	0.77749	0.74174	74	57	101	110	0.13
		AI	-2.44878	1.54515	-1.585	0.11301	0.0864					
		Sand	-0.00088	0.02417	-0.036	0.97106	0.99912					
		AI*Sand	0.06269	0.03388	1.851	0.06423	1.0647					
	AI X SILT	Intercept	-1.15503	1.12874	-1.023	0.30617	0.31505	66	50	100	110	0.09
		AI	3.27922	1.4966	2.191	0.02844	26.55501					
		Silt	0.01075	0.02628	0.409	0.68242	1.01081					
		AI*Silt	-0.05761	0.03087	-1.866	0.062	0.94402					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	AI X CLAY	Intercept	0.82249	0.5919	1.39	0.16466	2.27615	50	69	101	110	0.04
		AI	-0.14644	0.63904	-0.229	0.81875	0.86378					
		Clay	-0.04397	0.03297	-1.333	0.18237	0.95698					
		AI*Clay	0.00873	0.05202	0.168	0.8668	1.00876					
	AI X ALL	Intercept	-57.11272	93.47812	-0.611	0.54122	0	71	64	101	110	0.12
		Sand	0.59397	0.93514	0.635	0.52532	1.81116					
		Silt	0.5555	0.93438	0.595	0.55217	1.74281					
		Clay	0.5456	0.9353	0.583	0.55967	1.72564					
	PET X SAND	Intercept	-5.80272	2.17756	-2.665	0.0077	0.00302	66	76	101	110	0.13
		PETmy	0.00355	0.00184	1.924	0.0544	1.00355					
		Sand	0.10656	0.0399	2.671	0.00757	1.11245					
		PETmy*Sand	-0.00006	0.00004	-1.668	0.0953	0.99994					
	PET X SILT	Intercept	2.8309	1.5751	1.797	0.07229	16.96067	62	48	100	110	0.06
		PETmy	-0.00189	0.00163	-1.155	0.24808	0.99812					
		Silt	-0.08087	0.04415	-1.832	0.067	0.92231					
		PETmy*Silt	0.00005	0.00004	1.198	0.23077	1.00005					
	PET X CLAY	Intercept	0.96152	1.13267	0.849	0.39594	2.61566	47	71	100	110	0.05
		PETmy	-0.00015	0.00122	-0.123	0.90249	0.99985					
		Clay	-0.09418	0.06309	-1.493	0.13546	0.91012					
		PETmy*Clay	0.00005	0.00006	0.811	0.4172	1.00005					
	PET X ALL	Intercept	-5.80272	2.17756	-2.665	0.0077	0.00302	66	76	101	110	0.13
		PETmy	0.00355	0.00184	1.924	0.0544	1.00355					
		Sand	0.10656	0.0399	2.671	0.00757	1.11245					
		PETmy*Sand	-0.00006	0.00004	-1.668	0.0953	0.99994					
	T X SAND	Intercept	-3.47435	2.26481	-1.534	0.12502	0.03098	69	69	101	110	0.11
		Tmy	0.09973	0.14435	0.691	0.48961	1.10488					
		Sand	0.06394	0.03838	1.666	0.09567	1.06603					
		Tmy*Sand	-0.00139	0.00262	-0.53	0.59579	0.99861					
	T X SILT	Intercept	0.85768	1.30657	0.656	0.51154	2.35768	53	60	100	110	0.05
		Tmy	0.01519	0.10012	0.152	0.87941	1.01531					
		Silt	-0.01686	0.04066	-0.415	0.67844	0.98328					
		Tmy*Silt	-0.00095	0.00282	-0.337	0.73606	0.99905					
	T X CLAY	Intercept	2.30079	0.96733	2.378	0.01738	9.9821	78	45	100	110	0.06
		Tmy	-0.12648	0.07234	-1.748	0.08041	0.88119					
		Clay	-0.1202	0.05812	-2.068	0.03864	0.88674					
		Tmy*Clay	0.00614	0.00386	1.593	0.11123	1.00616					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	T X ALL	Intercept	-57.11272	93.47812	-0.611	0.54122	0	71	64	101	110	0.12
		Sand	0.59397	0.93514	0.635	0.52532	1.81116					
		Silt	0.5555	0.93438	0.595	0.55217	1.74281					
		Clay	0.5456	0.9353	0.583	0.55967	1.72564					
	P X SAND	Intercept	0.15417	1.59535	0.097	0.92302	1.16669	69	62	101	110	0.13
		Pmy	-0.00375	0.00279	-1.343	0.17943	0.99626					
		Sand	-0.01647	0.03712	-0.444	0.65721	0.98366					
		Pmy*Sand	0.00011	0.00007	1.6	0.10959	1.00011					
	P X SILT	Intercept	-1.00869	1.53858	-0.656	0.51208	0.3647	57	67	100	110	0.06
		Pmy	0.00369	0.00258	1.431	0.15247	1.00369					
		Silt	0.00747	0.03434	0.217	0.82783	1.0075					
		Pmy*Silt	-0.00007	0.00005	-1.236	0.21648	0.99993					
	P X CLAY	Intercept	1.03264	0.74666	1.383	0.16666	2.80847	46	71	101	110	0.04
		Pmy	-0.00054	0.0011	-0.488	0.6255	0.99946					
		Clay	-0.06117	0.04075	-1.501	0.13331	0.94066					
		Pmy*Clay	0.00004	0.00006	0.62	0.53499	1.00004					
	P X ALL	Intercept	-57.11272	93.47812	-0.611	0.54122	0	71	64	101	110	0.12
		Sand	0.59397	0.93514	0.635	0.52532	1.81116					
		Silt	0.5555	0.93438	0.595	0.55217	1.74281					
		Clay	0.5456	0.9353	0.583	0.55967	1.72564					
	NPP X SAND	Intercept	0.76452	1.99775	0.383	0.70195	2.14796	71	62	101	110	0.13
		NPP_lim	-0.00296	0.0022	-1.347	0.17792	0.99704					
		Sand	-0.03749	0.04669	-0.803	0.42204	0.96321					
		NPP_lim*Sand	0.00009	0.00005	1.705	0.08823	1.00009					
	NPP X SILT	Intercept	-2.64749	2.00416	-1.321	0.1865	0.07083	60	62	100	110	0.07
		NPP_lim	0.00404	0.00214	1.891	0.05866	1.00405					
		Silt	0.04369	0.04343	1.006	0.31444	1.04466					
		NPP_lim*Silt	-0.00008	0.00005	-1.755	0.07932	0.99992					
	NPP X CLAY	Intercept	1.42851	1.14318	1.25	0.21145	4.17249	46	67	101	110	0.05
		NPP_lim	-0.00079	0.00119	-0.666	0.50572	0.99921					
		Clay	-0.09579	0.06024	-1.59	0.11182	0.90866					
		NPP_lim*Clay	0.00006	0.00006	1.009	0.31306	1.00006					
	NPP X ALL	Intercept	0.76452	1.99775	0.383	0.70195	2.14796	71	62	101	110	0.13
		NPP_lim	-0.00296	0.0022	-1.347	0.17792	0.99704					
		Sand	-0.03749	0.04669	-0.803	0.42204	0.96321					
		NPP_lim*Sand	0.00009	0.00005	1.705	0.08823	1.00009					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
COL	GCI X SAND	Intercept	2.60105	1.46658	1.774	0.07614	13.47783	40	79	103	110	0.03
		GCI	-0.09494	0.05133	-1.85	0.06438	0.90943					
		Sand	-0.03907	0.0285	-1.371	0.17038	0.96168					
		GCI*Sand	0.00145	0.00094	1.54	0.12362	1.00145					
	GCI X SILT	Intercept	-0.00163	1.27464	-0.001	0.99898	0.99837	40	73	102	110	0.02
		GCI	0.00286	0.0402	0.071	0.94332	1.00286					
		Silt	0.02071	0.03258	0.636	0.52495	1.02093					
		GCI*Silt	-0.00079	0.00105	-0.759	0.44785	0.99921					
	GCI X CLAY	Intercept	-0.63078	1.09606	-0.575	0.56496	0.53218	51	79	103	110	0.03
		GCI	0.0226	0.03597	0.628	0.52989	1.02285					
		Clay	0.07887	0.05599	1.409	0.15892	1.08207					
		GCI*Clay	-0.00279	0.00191	-1.46	0.14441	0.99722					
	GCI X ALL	Intercept	2.60105	1.46658	1.774	0.07614	13.47783	40	79	103	110	0.03
		GCI	-0.09494	0.05133	-1.85	0.06438	0.90943					
		Sand	-0.03907	0.0285	-1.371	0.17038	0.96168					
		GCI*Sand	0.00145	0.00094	1.54	0.12362	1.00145					
	AI X SAND	Intercept	1.84698	1.05779	1.746	0.0808	6.34065	69	61	101	110	0.11
		AI	-2.57991	1.39212	-1.853	0.06385	0.07578					
		Sand	-0.07302	0.02878	-2.537	0.01117	0.92958					
		AI*Sand	0.09791	0.03524	2.778	0.00546	1.10286					
	AI X SILT	Intercept	-2.05905	1.25521	-1.64	0.10092	0.12758	69	48	100	110	0.07
		AI	3.18266	1.532	2.077	0.03776	24.11091					
		Silt	0.02486	0.0279	0.891	0.373	1.02517					
		AI*Silt	-0.04053	0.02958	-1.37	0.17071	0.96028					
	AI X CLAY	Intercept	-1.99808	0.8127	-2.459	0.01395	0.1356	65	58	100	110	0.08
		AI	2.51414	0.99587	2.525	0.01158	12.35604					
		Clay	0.0762	0.03988	1.911	0.05605	1.07917					
		AI*Clay	-0.11267	0.06976	-1.615	0.10632	0.89345					
	AI X ALL	Intercept	-1.99808	0.8127	-2.459	0.01395	0.1356	65	58	102	110	0.08
		AI	2.51414	0.99587	2.525	0.01158	12.35604					
		Clay	0.0762	0.03988	1.911	0.05605	1.07917					
		AI*Clay	-0.11267	0.06976	-1.615	0.10632	0.89345					
	PET X SAND	Intercept	-3.17788	1.81279	-1.753	0.0796	0.04167	66	52	101	110	0.03
		PETmy	0.00307	0.00165	1.859	0.06305	1.00307					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Sand	0.07134	0.03525	2.024	0.04296	1.07395					
		PETmy*Sand	-0.00007	0.00004	-2.042	0.0412	0.99993					
	PET X SILT	Intercept	-0.5321	1.56483	-0.34	0.73383	0.58737	44	61	100	110	0
		PETmy	0.0007	0.00165	0.425	0.67049	1.0007					
		Silt	0.01704	0.03999	0.426	0.66998	1.01719					
		PETmy*Silt	-0.00002	0.00004	-0.508	0.61177	0.99998					
	PET X CLAY	Intercept	3.99068	1.27146	3.139	0.0017	54.09178	69	67	99	110	0.11
		PETmy	-0.00439	0.00149	-2.952	0.00316	0.99562					
		Clay	-0.22122	0.06619	-3.342	0.00083	0.80154					
		PETmy*Clay	0.00022	0.00006	3.492	0.00048	1.00022					
	PET X ALL	Intercept	-3.17788	1.81279	-1.753	0.0796	0.04167	66	52	102	110	0.03
		PETmy	0.00307	0.00165	1.859	0.06305	1.00307					
		Sand	0.07134	0.03525	2.024	0.04296	1.07395					
		PETmy*Sand	-0.00007	0.00004	-2.042	0.0412	0.99993					
	T X SAND	Intercept	0.04835	1.81826	0.027	0.97878	1.04954	51	70	101	110	0.02
		Tmy	0.01291	0.12174	0.106	0.91555	1.01299					
		Sand	0.01796	0.03223	0.557	0.57728	1.01812					
		Tmy*Sand	-0.00191	0.0024	-0.793	0.42765	0.9981					
	T X SILT	Intercept	-1.64551	1.36517	-1.205	0.22807	0.19291	61	58	100	110	0.05
		Tmy	0.11867	0.10465	1.134	0.2568	1.126					
		Silt	0.08002	0.04052	1.975	0.04827	1.08331					
		Tmy*Silt	-0.00559	0.00284	-1.969	0.0489	0.99442					
	T X CLAY	Intercept	3.72175	1.00819	3.691	0.00022	41.33667	69	70	99	110	0.12
		Tmy	-0.31228	0.08574	-3.642	0.00027	0.73178					
		Clay	-0.18266	0.05849	-3.123	0.00179	0.83305					
		Tmy*Clay	0.01414	0.00409	3.46	0.00054	1.01424					
	T X ALL	Intercept	0.04835	1.81826	0.027	0.97878	1.04954	51	70	102	110	0.02
		Tmy	0.01291	0.12174	0.106	0.91555	1.01299					
		Sand	0.01796	0.03223	0.557	0.57728	1.01812					
		Tmy*Sand	-0.00191	0.0024	-0.793	0.42765	0.9981					
	P X SAND	Intercept	2.36682	1.55524	1.522	0.12805	10.66342	74	58	101	110	0.11
		Pmy	-0.00441	0.00256	-1.721	0.08527	0.9956					
		Sand	-0.09991	0.0419	-2.385	0.0171	0.90492					
		Pmy*Sand	0.00018	0.00007	2.571	0.01013	1.00018					
	P X SILT	Intercept	-3.86059	1.77626	-2.173	0.02975	0.02106	81	55	99	110	0.08
		Pmy	0.00688	0.00286	2.406	0.01612	1.00691					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Silt	0.05329	0.03657	1.457	0.14504	1.05474					
		Pmy*Silt	-0.0001	0.00005	-1.799	0.07206	0.9999					
	P X CLAY	Intercept	-1.58753	0.86116	-1.843	0.06526	0.20443	70	48	99	110	0.05
		Pmy	0.00244	0.00124	1.976	0.04821	1.00244					
		Clay	0.02334	0.04079	0.572	0.56724	1.02361					
		Pmy*Clay	-0.00003	0.00007	-0.47	0.63866	0.99997					
	P X ALL	Intercept	-3.86059	1.77626	-2.173	0.02975	0.02106	81	55	102	110	0.08
		Pmy	0.00688	0.00286	2.406	0.01612	1.00691					
		Silt	0.05329	0.03657	1.457	0.14504	1.05474					
		Pmy*Silt	-0.0001	0.00005	-1.799	0.07206	0.9999					
	NPP X SAND	Intercept	2.56567	1.88457	1.361	0.17338	13.00939	70	61	101	110	0.08
		NPP_lim	-0.00284	0.00194	-1.464	0.14323	0.99716					
		Sand	-0.11213	0.05074	-2.21	0.02713	0.89393					
		NPP_lim*Sand	0.00012	0.00005	2.342	0.01919	1.00012					
	NPP X SILT	Intercept	-5.40452	2.25604	-2.396	0.01659	0.0045	74	61	99	110	0.06
		NPP_lim	0.00581	0.00229	2.533	0.01132	1.00582					
		Silt	0.08567	0.04525	1.893	0.05835	1.08944					
		NPP_lim*Silt	-0.00009	0.00004	-2.066	0.03883	0.99991					
	NPP X CLAY	Intercept	-1.33399	1.27505	-1.046	0.29546	0.26342	73	52	99	110	0.03
		NPP_lim	0.0014	0.00129	1.088	0.27665	1.0014					
		Clay	0.00003	0.06078	0	0.99963	1.00003					
		NPP_lim*Clay	0	0.00006	0.02	0.98419	1					
	NPP X ALL	Intercept	-5.40452	2.25604	-2.396	0.01659	0.0045	74	61	102	110	0.06
		NPP_lim	0.00581	0.00229	2.533	0.01132	1.00582					
		Silt	0.08567	0.04525	1.893	0.05835	1.08944					
		NPP_lim*Silt	-0.00009	0.00004	-2.066	0.03883	0.99991					
EAR	GCI X SAND	Intercept	0.35579	1.30315	0.273	0.78483	1.42731	67	42	103	110	0.05
		GCI	-0.02733	0.04074	-0.671	0.50227	0.97304					
		Sand	0.0193	0.02779	0.694	0.48745	1.01949					
		GCI*Sand	-0.00029	0.00086	-0.339	0.73437	0.99971					
	GCI X SILT	Intercept	0.9036	1.28892	0.701	0.48327	2.46848	79	46	102	110	0.12
		GCI	0.01558	0.04243	0.367	0.71355	1.0157					
		Silt	0.01586	0.03705	0.428	0.66853	1.01599					
		GCI*Silt	-0.00188	0.00135	-1.387	0.16538	0.99813					
	GCI X CLAY	Intercept	3.57615	1.32551	2.698	0.00698	35.73566	76	56	103	110	0.13
		GCI	-0.14339	0.04658	-3.079	0.00208	0.86641					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Clay	-0.11341	0.05588	-2.03	0.0424	0.89279					
		GCI*Clay	0.00492	0.00189	2.596	0.00944	1.00493					
	GCI X ALL	Intercept	2.01067	0.8089	2.486	0.01293	7.46828	79	50	103	110	0.12
		GCI	-0.04514	0.01835	-2.46	0.0139	0.95586					
		Silt	-0.0326	0.01297	-2.513	0.01197	0.96792					
		Clay	0.0259	0.01565	1.655	0.09802	1.02624					
	AI X SAND	Intercept	1.25696	1.0067	1.249	0.21181	3.51473	83	52	102	110	0.11
		AI	-3.06609	1.55772	-1.968	0.04903	0.0466					
		Sand	-0.00181	0.02349	-0.077	0.93851	0.99819					
		AI*Sand	0.02693	0.03251	0.828	0.40742	1.0273					
	AI X SILT	Intercept	1.22536	1.15774	1.058	0.28987	3.40539	90	46	101	110	0.14
		AI	-0.24107	1.58434	-0.152	0.87906	0.78579					
		Silt	-0.00609	0.0269	-0.226	0.82098	0.99393					
		AI*Silt	-0.03851	0.0372	-1.035	0.30058	0.96222					
	AI X CLAY	Intercept	1.61349	0.80662	2	0.04547	5.0203	81	46	100	110	0.11
		AI	-3.03513	1.17314	-2.587	0.00968	0.04807					
		Clay	-0.04566	0.04124	-1.107	0.26826	0.95537					
		AI*Clay	0.11385	0.07455	1.527	0.12672	1.12058					
	AI X ALL	Intercept	1.22536	1.15774	1.058	0.28987	3.40539	90	46	102	110	0.14
		AI	-0.24107	1.58434	-0.152	0.87906	0.78579					
		Silt	-0.00609	0.0269	-0.226	0.82098	0.99393					
		AI*Silt	-0.03851	0.0372	-1.035	0.30058	0.96222					
	PET X SAND	Intercept	-1.60229	1.63937	-0.977	0.32838	0.20143	53	56	102	110	0.04
		PETmy	0.00086	0.00153	0.563	0.57368	1.00086					
		Sand	0.00651	0.03261	0.2	0.84174	1.00653					
		PETmy*Sand	0.00001	0.00003	0.329	0.74181	1.00001					
	PET X SILT	Intercept	3.79097	1.67305	2.266	0.02346	44.29943	83	40	101	110	0.12
		PETmy	-0.00284	0.00167	-1.7	0.08917	0.99716					
		Silt	-0.14234	0.04819	-2.954	0.00314	0.86733					
		PETmy*Silt	0.00011	0.00005	2.45	0.0143	1.00011					
	PET X CLAY	Intercept	-5.72681	1.37935	-4.152	0.00003	0.00326	74	67	99	110	0.17
		PETmy	0.00549	0.00144	3.804	0.00014	1.00551					
		Clay	0.28616	0.07101	4.03	0.00006	1.33131					
		PETmy*Clay	-0.00025	0.00006	-3.939	0.00008	0.99975					
	PET X ALL	Intercept	3.79097	1.67305	2.266	0.02346	44.29943	83	40	102	110	0.12

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy	-0.00284	0.00167	-1.7	0.08917	0.99716					
		Silt	-0.14234	0.04819	-2.954	0.00314	0.86733					
		PETmy*Silt	0.00011	0.00005	2.45	0.0143	1.00011					
	T X SAND	Intercept	2.18846	1.76141	1.242	0.21407	8.92146	67	56	102	110	0.07
		Tmy	-0.215	0.11997	-1.792	0.07312	0.80654					
		Sand	-0.05847	0.03192	-1.832	0.06696	0.94321					
		Tmy*Sand	0.00603	0.00244	2.47	0.01351	1.00605					
	T X SILT	Intercept	0.75262	1.42645	0.528	0.59777	2.12254	67	58	101	110	0.09
		Tmy	0.0614	0.10697	0.574	0.56599	1.06332					
		Silt	-0.05766	0.04611	-1.251	0.21104	0.94397					
		Tmy*Silt	0.00099	0.00304	0.326	0.74463	1.00099					
	T X CLAY	Intercept	-3.53443	1.07715	-3.281	0.00103	0.02918	69	62	99	110	0.11
		Tmy	0.22379	0.07639	2.93	0.00339	1.25081					
		Clay	0.20895	0.06349	3.291	0.001	1.23238					
		Tmy*Clay	-0.01272	0.00406	-3.133	0.00173	0.98736					
	T X ALL	Intercept	0.04418	0.64446	0.069	0.94535	1.04517	79	62	102	110	0.09
		Tmy	0.07968	0.04711	1.691	0.09076	1.08294					
		Silt	-0.03994	0.01399	-2.855	0.00431	0.96085					
		Clay	0.01698	0.01594	1.065	0.28678	1.01712					
	P X SAND	Intercept	2.89073	1.53829	1.879	0.06022	18.00647	91	42	102	110	0.1
		Pmy	-0.0059	0.00273	-2.165	0.03041	0.99412					
		Sand	-0.03479	0.03573	-0.973	0.33031	0.96581					
		Pmy*Sand	0.00008	0.00006	1.274	0.20259	1.00008					
	P X SILT	Intercept	1.70062	1.60525	1.059	0.28941	5.47732	83	46	101	110	0.13
		Pmy	-0.00106	0.00274	-0.388	0.69765	0.99894					
		Silt	-0.00898	0.03505	-0.256	0.79774	0.99106					
		Pmy*Silt	-0.00004	0.00006	-0.65	0.51562	0.99996					
	P X CLAY	Intercept	1.01789	0.91274	1.115	0.26476	2.76736	71	58	99	110	0.1
		Pmy	-0.00264	0.00156	-1.692	0.09073	0.99736					
		Clay	0.02556	0.04694	0.545	0.58601	1.02589					
		Pmy*Clay	0	0.00008	-0.001	0.99923	1					
	P X ALL	Intercept	4.2832	1.44855	2.957	0.00311	72.47165	79	52	102	110	0.13
		Pmy	-0.00273	0.00103	-2.657	0.00788	0.99727					
		Silt	-0.0502	0.01964	-2.556	0.01058	0.95104					
		Sand	-0.02133	0.01582	-1.348	0.17768	0.9789					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	NPP X SAND	Intercept	4.17582	1.99266	2.096	0.03612	65.09304	86	46	102	110	0.1
		NPP_lim	-0.00511	0.00219	-2.329	0.01988	0.99491					
		Sand	-0.05339	0.04608	-1.159	0.24662	0.94801					
		NPP_lim*Sand	0.00007	0.00005	1.398	0.16207	1.00007					
	NPP X SILT	Intercept	1.68546	2.04265	0.825	0.4093	5.39491	79	49	101	110	0.13
		NPP_lim	-0.00053	0.00219	-0.244	0.80751	0.99947					
		Silt	0.00622	0.04452	0.14	0.88887	1.00624					
		NPP_lim*Silt	-0.00005	0.00005	-0.927	0.35415	0.99995					
	NPP X CLAY	Intercept	1.6224	1.25383	1.294	0.19568	5.06523	71	58	99	110	0.1
		NPP_lim	-0.00238	0.00136	-1.752	0.07973	0.99762					
		Clay	0.02193	0.06369	0.344	0.73056	1.02218					
		NPP_lim*Clay	0.00001	0.00007	0.104	0.91724	1.00001					
	NPP X ALL	Intercept	5.24945	1.58594	3.31	0.00093	190.462	78	48	102	110	0.14
		NPP_lim	-0.00246	0.00085	-2.891	0.00384	0.99754					
		Silt	-0.05559	0.01999	-2.781	0.00542	0.94593					
		Sand	-0.02352	0.0159	-1.48	0.13897	0.97675					
ERO	GCI X SAND	Intercept	-1.91111	1.51804	-1.259	0.20805	0.14792	81	46	102	110	0.07
		GCI	0.07364	0.05356	1.375	0.16917	1.07642					
		Sand	0.00508	0.03361	0.151	0.87976	1.0051					
		GCI*Sand	-0.00032	0.00117	-0.27	0.7875	0.99968					
	GCI X SILT	Intercept	-0.74907	1.62144	-0.462	0.6441	0.4728	75	49	101	110	0.1
		GCI	-0.00678	0.06049	-0.112	0.91073	0.99324					
		Silt	-0.03303	0.04734	-0.698	0.48529	0.96751					
		GCI*Silt	0.00221	0.00193	1.144	0.25272	1.00221					
	GCI X CLAY	Intercept	-2.12521	1.38097	-1.539	0.12382	0.11941	61	61	102	110	0.09
		GCI	0.09286	0.05009	1.854	0.06373	1.09731					
		Clay	0.01183	0.05557	0.213	0.83144	1.0119					
		GCI*Clay	-0.00124	0.00184	-0.672	0.50129	0.99876					
	GCI X ALL	Intercept	-4.45759	1.62787	-2.738	0.00618	0.01159	67	55	102	110	0.1
		GCI	0.06919	0.02628	2.633	0.00847	1.07164					
		Silt	0.04335	0.02095	2.069	0.03852	1.0443					
		Sand	0.0224	0.01583	1.415	0.15719	1.02265					
	AI X SAND	Intercept	-2.07866	1.2628	-1.646	0.09975	0.1251	78	59	100	110	0.13
		AI	5.00938	2.60821	1.921	0.05478	149.8121					
		Sand	0.00854	0.02609	0.327	0.74337	1.00858					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI*Sand	-0.04248	0.04527	-0.938	0.34806	0.95841					
	AI X SILT	Intercept	-1.67667	1.18679	-1.413	0.15772	0.187	78	49	100	110	0.14
		AI	1.16983	1.91717	0.61	0.54174	3.22143					
		Silt	-0.00118	0.02995	-0.039	0.96856	0.99882					
		AI*Silt	0.06005	0.06231	0.964	0.33514	1.06189					
	AI X CLAY	Intercept	-1.3522	0.82364	-1.642	0.10065	0.25867	83	47	99	110	0.12
		AI	2.37363	1.36162	1.743	0.08129	10.73629					
		Clay	-0.00763	0.04468	-0.171	0.86441	0.9924					
		AI*Clay	0.01128	0.08632	0.131	0.89607	1.01134					
	AI X ALL	Intercept	-1.67667	1.18679	-1.413	0.15772	0.187	78	49	101	110	0.14
		AI	1.16983	1.91717	0.61	0.54174	3.22143					
		Silt	-0.00118	0.02995	-0.039	0.96856	0.99882					
		AI*Silt	0.06005	0.06231	0.964	0.33514	1.06189					
	PET X SAND	Intercept	3.03433	1.91881	1.581	0.1138	20.7871	53	69	100	110	0.06
		PETmy	-0.00235	0.00167	-1.403	0.16071	0.99765					
		Sand	-0.02325	0.03622	-0.642	0.52088	0.97702					
		PETmy*Sand	0.00001	0.00003	0.284	0.77616	1.00001					
	PET X SILT	Intercept	-0.5811	1.69228	-0.343	0.73131	0.55928	61	51	100	110	0.08
		PETmy	-0.00007	0.00169	-0.039	0.96915	0.99993					
		Silt	0.07219	0.05049	1.43	0.15276	1.07486					
		PETmy*Silt	-0.00005	0.00005	-1.059	0.28945	0.99995					
	PET X CLAY	Intercept	2.9147	1.31702	2.213	0.02689	18.44322	64	55	99	110	0.06
		PETmy	-0.00278	0.00134	-2.08	0.03752	0.99722					
		Clay	-0.06641	0.05809	-1.143	0.25293	0.93575					
		PETmy*Clay	0.00006	0.00005	1.08	0.27994	1.00006					
	PET X ALL	Intercept	-0.5811	1.69228	-0.343	0.73131	0.55928	61	51	101	110	0.08
		PETmy	-0.00007	0.00169	-0.039	0.96915	0.99993					
		Silt	0.07219	0.05049	1.43	0.15276	1.07486					
		PETmy*Silt	-0.00005	0.00005	-1.059	0.28945	0.99995					
	T X SAND	Intercept	1.70011	2.13825	0.795	0.42656	5.47453	64	72	100	110	0.06
		Tmy	-0.06724	0.13509	-0.498	0.61864	0.93497					
		Sand	0.00112	0.03721	0.03	0.97599	1.00112					
		Tmy*Sand	-0.00144	0.00252	-0.569	0.56907	0.99856					
	T X SILT	Intercept	-0.50558	1.85763	-0.272	0.78549	0.60315	58	62	100	110	0.1
		Tmy	-0.06334	0.12592	-0.503	0.61493	0.93862					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Silt	0.08975	0.07124	1.26	0.20772	1.0939					
		Tmy*Silt	-0.00337	0.00434	-0.775	0.43816	0.99664					
	T X CLAY	Intercept	2.25427	1.13962	1.978	0.04792	9.52833	67	46	99	110	0.05
		Tmy	-0.14176	0.08035	-1.764	0.07769	0.86783					
		Clay	-0.04662	0.05079	-0.918	0.35868	0.95445					
		Tmy*Clay	0.00229	0.00353	0.648	0.5172	1.00229					
	T X ALL	Intercept	-0.50558	1.85763	-0.272	0.78549	0.60315	58	62	101	110	0.1
		Tmy	-0.06334	0.12592	-0.503	0.61493	0.93862					
		Silt	0.08975	0.07124	1.26	0.20772	1.0939					
		Tmy*Silt	-0.00337	0.00434	-0.775	0.43816	0.99664					
	P X SAND	Intercept	-2.48492	1.68355	-1.476	0.13994	0.08333	83	51	100	110	0.09
		Pmy	0.00507	0.00323	1.569	0.11676	1.00508					
		Sand	0.01515	0.03918	0.387	0.69906	1.01526					
		Pmy*Sand	-0.00004	0.00007	-0.521	0.60203	0.99996					
	P X SILT	Intercept	-1.9308	1.81312	-1.065	0.28692	0.14503	78	43	100	110	0.1
		Pmy	0.00222	0.00332	0.668	0.50395	1.00222					
		Silt	0.00012	0.04012	0.003	0.99767	1.00012					
		Pmy*Silt	0.00004	0.00008	0.543	0.58702	1.00004					
	P X CLAY	Intercept	-1.81179	1.16452	-1.556	0.11975	0.16336	78	54	99	110	0.09
		Pmy	0.00405	0.00229	1.768	0.07713	1.00406					
		Clay	0.00054	0.05874	0.009	0.99268	1.00054					
		Pmy*Clay	-0.00003	0.00011	-0.3	0.76432	0.99997					
	P X ALL	Intercept	-4.02453	1.58257	-2.543	0.01099	0.01787	72	55	101	110	0.11
		Pmy	0.00393	0.00146	2.692	0.0071	1.00394					
		Silt	0.03598	0.02117	1.699	0.08929	1.03663					
		Sand	0.01553	0.01554	1	0.31738	1.01566					
	NPP X SAND	Intercept	-3.02932	2.00309	-1.512	0.13045	0.04835	78	51	100	110	0.08
		NPP_lim	0.00373	0.00232	1.612	0.107	1.00374					
		Sand	0.0199	0.04678	0.425	0.67058	1.0201					
		NPP_lim*Sand	-0.00003	0.00005	-0.545	0.58568	0.99997					
	NPP X SILT	Intercept	-2.09135	2.15749	-0.969	0.33237	0.12352	78	45	100	110	0.1
		NPP_lim	0.00147	0.0024	0.613	0.5399	1.00147					
		Silt	-0.00534	0.04698	-0.114	0.90954	0.99468					
		NPP_lim*Silt	0.00003	0.00005	0.623	0.5332	1.00003					
	NPP X CLAY	Intercept	-2.25851	1.37821	-1.639	0.10127	0.10451	78	54	99	110	0.08
		NPP_lim	0.00304	0.00162	1.876	0.06064	1.00304					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Clay	0.0065	0.06975	0.093	0.92577	1.00652					
		NPP_lim*Clay	-0.00003	0.00008	-0.372	0.70958	0.99997					
	NPP X ALL	Intercept	-4.67045	1.67432	-2.789	0.00528	0.00937	69	58	101	110	0.1
		NPP_lim	0.0029	0.00104	2.78	0.00543	1.0029					
		Silt	0.03973	0.02109	1.883	0.05964	1.04053					
		Sand	0.01739	0.01551	1.121	0.26209	1.01754					
PON	GCI X SAND	Intercept	0.41572	1.58325	0.263	0.79288	1.51546	52	67	98	105	0.04
		GCI	-0.04274	0.05007	-0.854	0.39332	0.95816					
		Sand	0.00098	0.04293	0.023	0.98184	1.00098					
		GCI*Sand	0.00066	0.00145	0.456	0.64815	1.00066					
	GCI X SILT	Intercept	6.01037	2.25501	2.665	0.00769	407.6329	59	71	97	105	0.1
		GCI	-0.22602	0.07492	-3.017	0.00255	0.7977					
		Silt	-0.10785	0.04822	-2.237	0.02532	0.89776					
		GCI*Silt	0.00421	0.00163	2.584	0.00977	1.00422					
	GCI X CLAY	Intercept	-10.1558	3.21845	-3.155	0.0016	0.00004	76	89	98	105	**0.43**
		GCI	0.49602	0.15255	3.251	0.00115	1.64217					
		Clay	0.49736	0.13829	3.596	0.00032	1.64438					
		GCI*Clay	-0.02345	0.00637	-3.679	0.00023	0.97682					
	GCI X ALL	Intercept	-10.1558	3.21845	-3.155	0.0016	0.00004	76	89	98	105	0.43
		GCI	0.49602	0.15255	3.251	0.00115	1.64217					
		Clay	0.49736	0.13829	3.596	0.00032	1.64438					
		GCI*Clay	-0.02345	0.00637	-3.679	0.00023	0.97682					
	AI X SAND	Intercept	-0.75656	0.99147	-0.763	0.44542	0.46928	86	57	96	105	0.14
		AI	-0.05807	1.6484	-0.035	0.9719	0.94359					
		Sand	-0.01887	0.02613	-0.722	0.47023	0.98131					
		AI*Sand	0.06673	0.04557	1.464	0.14311	1.06901					
	AI X SILT	Intercept	-3.91226	1.36672	-2.863	0.0042	0.02	86	58	95	105	0.14
		AI	5.47308	2.12854	2.571	0.01013	238.1928					
		Silt	0.05842	0.03059	1.91	0.05613	1.06016					
		AI*Silt	-0.06232	0.0424	-1.47	0.14162	0.93959					
	AI X CLAY	Intercept	QS					90	57	96	105	0.25
		AI	QS									
		Clay	QS									
		AI*Clay	QS									
	AI X ALL	Intercept	QS					90	57	97	105	0.25
		AI	QS									

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Clay	QS									
		AI*Clay	QS									
	PET X SAND	Intercept	-5.45765	1.94937	-2.8	0.00512	0.00426	55	67	96	105	0.08
		PETmy	0.00447	0.00187	2.387	0.017	1.00448					
		Sand	0.11762	0.04299	2.736	0.00622	1.12482					
		PETmy*Sand	-0.0001	0.00004	-2.329	0.01983	0.9999					
	PET X SILT	Intercept	-0.44113	1.60206	-0.275	0.78304	0.64331	62	51	95	105	0.01
		PETmy	-0.00016	0.0017	-0.092	0.92642	0.99984					
		Silt	0.00814	0.04284	0.19	0.84925	1.00818					
		PETmy*Silt	0.00001	0.00005	0.187	0.85158	1.00001					
	PET X CLAY	Intercept	11.41095	3.21772	3.546	0.00039	10000+	76	88	95	105	**0.44**
		PETmy	-0.00875	0.00279	-3.133	0.00173	0.99129					
		Clay	-0.67416	0.15899	-4.24	0.00002	0.50959					
		PETmy*Clay	0.00052	0.00013	3.839	0.00012	1.00052					
	PET X ALL	Intercept	11.41095	3.21772	3.546	0.00039	10000+	76	88	97	105	**0.44**
		PETmy	-0.00875	0.00279	-3.133	0.00173	0.99129					
		Clay	-0.67416	0.15899	-4.24	0.00002	0.50959					
		PETmy*Clay	0.00052	0.00013	3.839	0.00012	1.00052					
	T X SAND	Intercept	-11.3436	2.78292	-4.076	0.00005	0.00001	62	80	96	105	0.22
		Tmy	0.70509	0.17619	4.002	0.00006	2.02403					
		Sand	0.22313	0.05921	3.768	0.00016	1.24998					
		Tmy*Sand	-0.01386	0.00375	-3.698	0.00022	0.98623					
	T X SILT	Intercept	1.1555	1.43848	0.803	0.42181	3.17562	76	43	95	105	0.03
		Tmy	-0.1299	0.10964	-1.185	0.23609	0.87818					
		Silt	-0.04631	0.04076	-1.136	0.2559	0.95475					
		Tmy*Silt	0.00448	0.00292	1.533	0.1253	1.00449					
	T X CLAY	Intercept	9.72706	3.44068	2.827	0.0047	10000+	59	93	95	105	0.38
		Tmy	-0.51915	0.20202	-2.57	0.01017	0.59502					
		Clay	-0.55304	0.15571	-3.552	0.00038	0.5752					
		Tmy*Clay	0.03067	0.00906	3.385	0.00071	1.03114					
	T X ALL	Intercept	9.72706	3.44068	2.827	0.0047	10000+	59	93	97	105	0.38
		Tmy	-0.51915	0.20202	-2.57	0.01017	0.59502					
		Clay	-0.55304	0.15571	-3.552	0.00038	0.5752					
		Tmy*Clay	0.03067	0.00906	3.385	0.00071	1.03114					
	P X SAND	Intercept	-1.94231	1.74242	-1.115	0.26497	0.14337	90	64	96	105	0.21

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Pmy	0.00197	0.0034	0.58	0.5617	1.00197					
		Sand	-0.03675	0.04657	-0.789	0.43005	0.96392					
		Pmy*Sand	0.00012	0.00009	1.263	0.20675	1.00012					
	P X SILT	Intercept	-11.8937	3.26457	-3.643	0.00027	0.00001	93	74	94	105	0.27
		Pmy	0.02131	0.00621	3.434	0.0006	1.02154					
		Silt	0.17536	0.06088	2.881	0.00397	1.19167					
		Pmy*Silt	-0.00028	0.00011	-2.598	0.00937	0.99972					
	P X CLAY	Intercept	QS					90	80	95	105	0.41
		Pmy	QS									
		Clay	QS									
		Pmy*Clay	QS									
	P X ALL	Intercept	QS					90	80	97	105	0.41
		Pmy	QS									
		Clay	QS									
		Pmy*Clay	QS									
	NPP X SAND	Intercept	-2.05676	2.04358	-1.006	0.3142	0.12787	86	67	96	105	0.19
		NPP_lim	0.00134	0.00238	0.562	0.57406	1.00134					
		Sand	-0.0461	0.05426	-0.85	0.39552	0.95495					
		NPP_lim*Sand	0.00008	0.00006	1.255	0.20943	1.00008					
	NPP X SILT	Intercept	-13.744	3.82486	-3.593	0.00033	0	86	76	94	105	0.26
		NPP_lim	0.01484	0.00433	3.424	0.00062	1.01495					
		Silt	0.20285	0.07188	2.822	0.00477	1.22488					
		NPP_lim*Silt	-0.0002	0.00008	-2.561	0.01043	0.9998					
	NPP X CLAY	Intercept	3.45725	2.33972	1.478	0.13951	31.72944	90	82	95	105	0.4
		NPP_lim	-0.00179	0.00266	-0.671	0.50196	0.99821					
		Clay	-0.68536	0.23668	-2.896	0.00378	0.50391					
		NPP_lim*Clay	0.00073	0.00028	2.609	0.00908	1.00073					
	NPP X ALL	Intercept	3.45725	2.33972	1.478	0.13951	31.72944	90	82	95	105	0.4
		NPP_lim	-0.00179	0.00266	-0.671	0.50196	0.99821					
		Clay	-0.68536	0.23668	-2.896	0.00378	0.50391					
		NPP_lim*Clay	0.00073	0.00028	2.609	0.00908	1.00073					

Table 18. Logistic regression models of the interactions between climate and soil manageable variables on the scores of the visual soil quality indicators for acid soils. Models with two explanatory variables and an interaction term (the product of the two variables). %CP percentage of correct predictions.

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	GCI x SOM	Intercept	-0.85142	1.09362	-0.779	0.43625	0.42681	75	45	71	78	0.05
		GCI	0.02173	0.03222	0.674	0.50011	1.02197					
		OM	-0.07685	0.39217	-0.196	0.84465	0.92603					
		GCI*OM	0.00183	0.01199	0.153	0.87851	1.00183					
	GCI x LOC	Intercept	-0.51103	0.60147	-0.85	0.39553	0.59988	75	52	117	125	0.04
		GCI	0.00387	0.02027	0.191	0.84841	1.00388					
		LOC	0.09234	0.19564	0.472	0.63695	1.09673					
		GCI*LOC	0.00202	0.00587	0.344	0.73078	1.00202					
	GCI x pH	Intercept	-7.01117	3.82786	-1.832	0.06701	0.0009	55	67	115	131	0.05
		GCI	0.1315	0.08768	1.5	0.13367	1.14054					
		pH	1.03322	0.62362	1.657	0.09756	2.81011					
		GCI*pH	-0.01861	0.01509	-1.233	0.2176	0.98156					
	GCI x PR	Intercept	-4.18511	1.50341	-2.784	0.00537	0.01522	78	53	93	97	0.15
		GCI	0.0962	0.03093	3.11	0.00187	1.10098					
		PR	1.08963	0.60162	1.811	0.07012	2.97316					
		GCI*PR	-0.02449	0.01308	-1.872	0.0612	0.97581					
	GCI	Intercept	-2.20571	5.49711	-0.401	0.68824	0.11017	81	56	93	97	0.13
	pH	GCI	-0.00461	0.13041	-0.035	0.97179	0.9954					
	PR	pH	0.00072	0.94327	0.001	0.99939	1.00072					
		GCI*pH	0.01024	0.0236	0.434	0.6643	1.0103					
	AI x SOM	Intercept	1.5947	1.84564	0.864	0.38757	4.92686	63	42	69	78	0.01
		AI	-1.61611	1.90919	-0.846	0.39728	0.19867					
		OM	-0.35157	0.54962	-0.64	0.52239	0.70358					
		AI*OM	0.35954	0.54562	0.659	0.50992	1.43267					
	AI x LOC	Intercept	-0.24468	0.6662	-0.367	0.71341	0.78295	75	46	113	125	0.05
		AI	-0.11779	0.51915	-0.227	0.82051	0.88889					
		LOC	0.59195	0.50186	1.18	0.23819	1.8075					
		AI*LOC	-0.35644	0.41678	-0.855	0.39242	0.70016					
	AI x pH	Intercept	-1.1366	5.87775	-0.193	0.84667	0.32091	48	65	108	131	0.02
		AI	-0.11181	5.13842	-0.022	0.98264	0.89421					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		pH	0.29885	0.90977	0.328	0.74254	1.34831					
		AI*pH	-0.07394	0.78177	-0.095	0.92465	0.92873					
	AI x PR	Intercept	1.70664	1.48603	1.148	0.25078	5.51044	51	59	92	97	0.02
		AI	-1.23714	1.18129	-1.047	0.29497	0.29021					
		PR	-0.50747	0.63014	-0.805	0.42063	0.60202					
		AI*PR	0.31997	0.42501	0.753	0.45154	1.37708					
	AI	Intercept										
	SOM	pH										
	LOC	PR										
	pH	pH*PR										
	PR											
	PET x SOM	Intercept	-2.83808	1.9811	-1.433	0.15198	0.05854	78	45	69	78	0.03
		PETmy	0.00421	0.00293	1.437	0.15069	1.00422					
		OM	0.74691	0.64706	1.154	0.24837	2.11047					
		PETmy*OM	-0.00113	0.00095	-1.182	0.23718	0.99887					
	PET x LOC	Intercept	-2.76156	1.13517	-2.433	0.01499	0.06319	68	65	114	125	0.07
		PETmy	0.00317	0.0015	2.119	0.0341	1.00318					
		LOC	0.54679	0.27771	1.969	0.04896	1.72769					
		PETmy*LOC	-0.00052	0.00038	-1.341	0.1798	0.99948					
	PET x pH	Intercept	-9.15172	6.56177	-1.395	0.16311	0.00011	58	54	109	131	0.04
		PETmy	0.01025	0.00796	1.288	0.19771	1.0103					
		pH	1.25958	1.04833	1.202	0.22955	3.52396					
		PETmy*pH	-0.00136	0.00128	-1.065	0.28697	0.99864					
	PET x PR	Intercept	-6.61593	2.94025	-2.25	0.02444	0.00134	86	44	92	97	0.08
		PETmy	0.00901	0.00378	2.387	0.01697	1.00905					
		PR	1.58286	1.0751	1.472	0.14094	4.86886					
		PETmy*PR	-0.0022	0.00138	-1.587	0.11251	0.9978					
	PET	Intercept										
	SOM	pH										
	LOC	PR										
	pH	pH*PR										
	PR											
	T x SOM	Intercept	-0.764	0.9975	-0.766	0.44373	0.4658	43	71	70	78	0.02
		Tmy	0.09537	0.11575	0.824	0.40999	1.10007					
		OM	0.39655	0.38302	1.035	0.30052	1.48668					
		Tmy*OM	-0.04395	0.03854	-1.14	0.25417	0.957					
	T x LOC	Intercept	-1.38065	0.77767	-1.775	0.07584	0.25142	68	63	115	125	0.04
		Tmy	0.09808	0.07308	1.342	0.17959	1.10305					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		LOC	0.37791	0.17626	2.144	0.03203	1.45923					
		Tmy*LOC	-0.02173	0.01728	-1.258	0.20854	0.9785					
	T x pH	Intercept	-3.56122	3.94682	-0.902	0.3669	0.0284	47	65	109	131	0.01
		Tmy	0.27374	0.3372	0.812	0.4169	1.31487					
		pH	0.57364	0.65154	0.88	0.37862	1.77472					
		Tmy*pH	-0.04417	0.05666	-0.78	0.43557	0.95679					
	T x PR	Intercept	0.66618	1.35642	0.491	0.62333	1.94679	54	56	92	97	0.01
		Tmy	-0.02244	0.11356	-0.198	0.84332	0.97781					
		PR	-0.45882	0.60954	-0.753	0.45162	0.63203					
		Tmy*PR	0.02503	0.04939	0.507	0.61229	1.02535					
	T	Intercept										
	SOM	pH										
	LOC	PR										
	pH	pH*PR										
	PR											
	P x SOM	Intercept	-0.62431	1.3393	-0.466	0.64111	0.53563	73	37	70	78	0
		Pmy	0.00107	0.002	0.535	0.59272	1.00107					
		OM	0.21195	0.50347	0.421	0.67377	1.23609					
		Pmy*OM	-0.00037	0.00071	-0.511	0.60906	0.99963					
	P x LOC	Intercept	-0.50453	0.65992	-0.765	0.44455	0.60379	77	50	115	125	0.03
		Pmy	0.00015	0.00072	0.206	0.83705	1.00015					
		LOC	0.25993	0.20926	1.242	0.21419	1.29684					
		Pmy*LOC	-0.0001	0.00023	-0.442	0.65817	0.9999					
	P x pH	Intercept	-6.37357	4.42573	-1.44	0.14983	0.00171	49	59	109	131	0.01
		Pmy	0.00626	0.00449	1.394	0.16339	1.00627					
		pH	1.05845	0.72032	1.469	0.14172	2.88191					
		Pmy*pH	-0.00104	0.00073	-1.43	0.15278	0.99896					
	P x PR	Intercept	0.14563	1.59677	0.091	0.92733	1.15677	52	50	92	97	0.01
		Pmy	0.00031	0.00163	0.188	0.85108	1.00031					
		PR	-0.14369	0.72291	-0.199	0.84245	0.86616					
		Pmy*PR	-0.00005	0.00066	-0.08	0.9366	0.99995					
	P	Intercept										
	SOM	pH										
	LOC	PR										
	pH	pH*PR										
	PR											
	NPP x SOM	Intercept	-1.24608	1.93922	-0.643	0.5205	0.28763	55	68	70	78	0.01
		NPP_lim	0.0013	0.00189	0.689	0.49101	1.0013					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		OM	0.49415	0.70946	0.697	0.4861	1.63911					
		NPP_lim*OM	-0.0005	0.00067	-0.751	0.45274	0.9995					
	NPP x LOC	Intercept	-1.72932	1.21817	-1.42	0.15572	0.17741	75	52	115	125	0.04
		NPP_lim	0.00113	0.001	1.129	0.25884	1.00113					
		LOC	0.50359	0.3078	1.636	0.10181	1.65466					
		NPP_lim*LOC	-0.00028	0.00025	-1.109	0.2676	0.99972					
	NPP x pH	Intercept	-6.35261	6.3729	-0.997	0.31885	0.00174	40	57	109	131	0.01
		NPP_lim	0.00454	0.0049	0.925	0.35477	1.00455					
		pH	1.01494	1.06826	0.95	0.34207	2.7592					
		NPP_lim*pH	-0.00072	0.00083	-0.872	0.38327	0.99928					
	NPP x PR	Intercept	0.16696	2.29777	0.073	0.94207	1.18171	54	50	92	97	0.01
		NPP_lim	0.00023	0.00176	0.128	0.89798	1.00023					
		PR	-0.30273	1.01983	-0.297	0.76659	0.7388					
		NPP_lim*PR	0.00008	0.00074	0.108	0.91391	1.00008					
	NPP	Intercept										
	SOM	pH										
	LOC	PR										
	pH	pH*PR										
	PR											
POR	GCI x SOM	Intercept	-1.39292	1.19059	-1.17	0.24203	0.24835	72	50	70	78	0.07
		GCI	0.01174	0.03204	0.367	0.71397	1.01181					
		OM	0.76297	0.48591	1.57	0.11637	2.14463					
		GCI*OM	-0.00869	0.0126	-0.69	0.49025	0.99135					
	GCI x LOC	Intercept	-1.10131	0.60773	-1.812	0.06996	0.33243	66	44	118	125	0.02
		GCI	0.0373	0.02062	1.809	0.07041	1.03801					
		LOC	0.28067	0.19549	1.436	0.15108	1.32402					
		GCI*LOC	-0.00911	0.00588	-1.547	0.12179	0.99094					
	GCI x pH	Intercept	1.1679	3.45661	0.338	0.73546	3.21523	42	64	113	131	0
		GCI	-0.03967	0.0843	-0.471	0.63796	0.96111					
		pH	-0.22237	0.57272	-0.388	0.69782	0.80062					
		GCI*pH	0.00761	0.01472	0.517	0.60502	1.00764					
	GCI x PR	Intercept	-1.48685	1.36772	-1.087	0.27699	0.22608	26	80	93	97	0.07
		GCI	0.05369	0.03439	1.561	0.11847	1.05515					
		PR	1.23627	0.75355	1.641	0.10088	3.44274					
		GCI*PR	-0.04194	0.02219	-1.891	0.05868	0.95892					
	GCI	Intercept	-2.56144	1.50484	-1.702	0.08873	0.07719	44	71	88	91	0.07
	LOC	GCI	0.07135	0.03548	2.011	0.04432	1.07396					
	PR	PR	1.50133	0.76048	1.974	0.04836	4.48767					

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		GCI*PR	-0.04406	0.02133	-2.066	0.03887	0.95689					
	AI x SOM	Intercept	3.47413	2.02717	1.714	0.08657	32.2699	78	67	67	78	0.12
		AI	-4.97864	2.22353	-2.239	0.02515	0.00688					
		OM	-0.86397	0.58017	-1.489	0.13645	0.42149					
		AI*OM	1.50366	0.63903	2.353	0.01862	4.49812					
	AI x LOC	Intercept	-0.96197	0.64292	-1.496	0.13459	0.38214	73	43	112	125	0.01
		AI	0.73182	0.49424	1.481	0.13869	2.07885					
		LOC	0.44222	0.48513	0.912	0.36201	1.55616					
		AI*LOC	-0.35052	0.40452	-0.867	0.38621	0.70432					
	AI x pH	Intercept	3.27885	5.74349	0.571	0.56808	26.54522	66	39	108	131	0.02
		AI	-2.44459	4.98285	-0.491	0.62371	0.08676					
		pH	-0.60511	0.89111	-0.679	0.49711	0.54602					
		AI*pH	0.45057	0.75945	0.593	0.55299	1.56921					
	AI x PR	Intercept	2.95368	1.5767	1.873	0.06102	19.17631	56	65	91	97	0.05
		AI	-1.68047	1.19889	-1.402	0.16101	0.18629					
		PR	-1.55135	0.6741	-2.301	0.02137	0.21196					
		AI*PR	0.86057	0.44868	1.918	0.05511	2.36452					
	AI	Intercept	1.43959	1.44644	0.995	0.31961	4.21896	85	75	54	58	0.22
	SOM	AI	-2.43908	1.46819	-1.661	0.09666	0.08724					
	PR	OM	0.98003	0.3334	2.939	0.00329	2.66453					
		PR	-0.49763	0.35437	-1.404	0.16024	0.60797					
	PET x SOM	Intercept	-2.7609	2.3451	-1.177	0.23907	0.06323	72	57	67	78	0.17
		PETmy	0.00153	0.00324	0.474	0.63572	1.00153					
		OM	2.0856	0.95855	2.176	0.02957	8.04945					
		PETmy*OM	-0.00174	0.00121	-1.437	0.15059	0.99827					
	PET x LOC	Intercept	2.16141	1.1531	1.874	0.06087	8.68334	38	74	113	125	0.04
		PETmy	-0.00294	0.00157	-1.874	0.06092	0.99706					
		LOC	-0.16087	0.27867	-0.577	0.56375	0.8514					
		PETmy*LOC	0.00024	0.00039	0.606	0.54432	1.00024					
	PET x pH	Intercept	1.97318	6.54547	0.301	0.76307	7.19348	42	70	109	131	0.05
		PETmy	-0.00168	0.00826	-0.203	0.83888	0.99832					
		pH	0.00574	1.06315	0.005	0.9957	1.00575					
		PETmy*pH	-0.00017	0.00136	-0.127	0.89874	0.99983					
	PET x PR	Intercept	-1.22508	2.89341	-0.423	0.672	0.29373	26	80	91	97	0.05
		PETmy	0.00249	0.00389	0.641	0.52128	1.0025					
		PR	1.41503	1.29097	1.096	0.27303	4.11662					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy*PR	-0.00236	0.00183	-1.291	0.19666	0.99765					
	PET	Intercept										
	SOM	OM										
	LOC	PR										
	pH	LOC										
	PR											
	T x SOM	Intercept	-2.54095	1.28966	-1.97	0.04881	0.07879	72	69	68	78	0.15
		Tmy	0.08121	0.11607	0.7	0.48413	1.0846					
		OM	1.71607	0.62856	2.73	0.00633	5.56261					
		Tmy*OM	-0.08544	0.04417	-1.934	0.05308	0.91811					
	T x LOC	Intercept	1.23826	0.76762	1.613	0.10672	3.44962	36	75	115	125	0.03
		Tmy	-0.12251	0.07443	-1.646	0.09979	0.8847					
		LOC	-0.10815	0.17187	-0.629	0.52918	0.89749					
		Tmy*LOC	0.01154	0.0174	0.663	0.50715	1.01161					
	T x pH	Intercept	2.80108	3.94596	0.71	0.47779	16.46241	44	67	109	131	0.03
		Tmy	-0.23308	0.34454	-0.676	0.49872	0.79209					
		pH	-0.32052	0.65181	-0.492	0.6229	0.72577					
		Tmy*pH	0.02461	0.05769	0.427	0.66967	1.02492					
	T x PR	Intercept	-0.23038	1.39118	-0.166	0.86847	0.79423	28	69	91	97	0.03
		Tmy	0.06102	0.12184	0.501	0.61647	1.06292					
		PR	0.48687	0.65159	0.747	0.45494	1.62722					
		Tmy*PR	-0.06522	0.0584	-1.117	0.26405	0.93686					
	T	Intercept										
	SOM	OM										
	LOC	PR										
	pH	Tmy										
	PR											
	P x SOM	Intercept	0.19341	1.68713	0.115	0.90873	1.21338	67	69	68	78	0.1
		Pmy	-0.00219	0.00243	-0.903	0.36671	0.99781					
		OM	0.55747	0.70059	0.796	0.4262	1.74625					
		Pmy*OM	0.00011	0.00089	0.125	0.90062	1.00011					
	P x LOC	Intercept	-0.37237	0.63715	-0.584	0.55894	0.6891	56	52	115	125	0.01
		Pmy	0.0004	0.0007	0.578	0.56328	1.0004					
		LOC	0.25415	0.20923	1.215	0.22449	1.28936					
		Pmy*LOC	-0.00029	0.00024	-1.205	0.22803	0.99971					
	P x pH	Intercept	6.48835	4.35384	1.49	0.13616	657.4362	58	58	109	131	0.02
		Pmy	-0.00727	0.00452	-1.611	0.10727	0.99275					
		pH	-1.01921	0.70851	-1.439	0.15029	0.36088					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Pmy*pH	0.00114	0.00073	1.564	0.11788	1.00114					
	P x PR	Intercept	2.60104	1.64275	1.583	0.11334	13.47776	77	43	91	97	0.02
		Pmy	-0.00214	0.00163	-1.312	0.18946	0.99787					
		PR	-1.15596	0.72981	-1.584	0.11321	0.31475					
		Pmy*PR	0.00089	0.00065	1.374	0.16939	1.00089					
	P	Intercept										
	LOC	pH										
	pH	PR										
	PR	pH*PR										
	NPP x SOM	Intercept	0.91134	2.39699	0.38	0.7038	2.48765	67	67	68	78	0.1
		NPP_lim	-0.00208	0.00226	-0.919	0.35811	0.99792					
		OM	0.42726	0.95672	0.447	0.65517	1.53306					
		NPP_lim*OM	0.00018	0.00083	0.218	0.82768	1.00018					
	NPP x LOC	Intercept	0.71469	1.16595	0.613	0.5399	2.04355	47	59	115	125	0.01
		NPP_lim	-0.00062	0.00098	-0.635	0.52526	0.99938					
		LOC	0.1227	0.30396	0.404	0.68646	1.13054					
		NPP_lim*LOC	-0.00009	0.00026	-0.357	0.72087	0.99991					
	NPP x pH	Intercept	6.19027	6.36048	0.973	0.33043	487.9801	48	61	109	131	0.02
		NPP_lim	-0.00484	0.00496	-0.975	0.3297	0.99517					
		pH	-0.86316	1.06463	-0.811	0.41751	0.42183					
		NPP_lim*pH	0.00067	0.00084	0.799	0.42443	1.00067					
	NPP x PR	Intercept	0.6273	2.26333	0.277	0.78166	1.87255	42	65	91	97	0.01
		NPP_lim	-0.0002	0.00174	-0.115	0.90806	0.9998					
		PR	0.04049	0.98576	0.041	0.96723	1.04132					
		NPP_lim*PR	-0.00017	0.00072	-0.237	0.81276	0.99983					
STA	GCI x SOM	Intercept	2.66565	1.31626	2.025	0.04285	14.37727	47	77	70	77	0.05
		GCI	-0.08007	0.04121	-1.943	0.05205	0.92306					
		OM	-0.8787	0.48371	-1.817	0.06928	0.41532					
		GCI*OM	0.02748	0.01534	1.791	0.07327	1.02786					
	GCI x LOC	Intercept	0.54474	0.6017	0.905	0.36529	1.72416	40	64	116	124	0.01
		GCI	-0.01498	0.02078	-0.721	0.47103	0.98513					
		LOC	-0.1601	0.20608	-0.777	0.43722	0.85206					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		GCI*LOC	0.00357	0.00607	0.588	0.55652	1.00357					
	GCI x pH	Intercept	0.5595	3.65436	0.153	0.87832	1.7498	31	70	114	130	0
		GCI	-0.0404	0.08975	-0.45	0.65259	0.9604					
		pH	-0.0776	0.6024	-0.129	0.89751	0.92534					
		GCI*pH	0.00631	0.01548	0.408	0.68354	1.00633					
	GCI x PR	Intercept	-0.27302	1.43616	-0.19	0.84923	0.76108	59	68	93	96	0.12
		GCI	-0.03971	0.03385	-1.173	0.24075	0.96107					
		PR	0.18145	0.62371	0.291	0.77111	1.19896					
		GCI*PR	0.0161	0.0153	1.052	0.29259	1.01623					
	GCI	Intercept										
	SOM	OM										
	LOC	PR										
	pH	OM*PR										
	PR											
	AI x SOM	Intercept	-0.70462	2.79302	-0.252	0.80083	0.4943	45	73	69	77	0.03
		AI	1.02269	2.7178	0.376	0.7067	2.78065					
		OM	-0.54862	1.16641	-0.47	0.63811	0.57775					
		AI*OM	0.34523	1.03807	0.333	0.73946	1.41231					
	AI x LOC	Intercept	-1.13977	0.73108	-1.559	0.11899	0.31989	74	57	112	124	0.1
		AI	0.95261	0.5472	1.741	0.0817	2.59247					
		LOC	-0.66639	0.62799	-1.061	0.28862	0.51356					
		AI*LOC	0.53564	0.51622	1.038	0.29944	1.70855					
	AI x pH	Intercept	2.39924	6.3661	0.377	0.70626	11.01485	73	52	110	130	0.1
		AI	-1.33336	5.39851	-0.247	0.80492	0.26359					
		pH	-0.66262	0.99392	-0.667	0.50498	0.5155					
		AI*pH	0.42626	0.82413	0.517	0.605	1.53152					
	AI x PR	Intercept	-6.99374	2.12255	-3.295	0.00098	0.00092	74	69	91	96	0.19
		AI	4.10657	1.45574	2.821	0.00479	60.73796					
		PR	2.33982	0.83402	2.805	0.00502	10.37932					
		AI*PR	-1.1824	0.51371	-2.302	0.02135	0.30654					
	AI	Intercept										
	SOM	AI										
	LOC	PR										
	pH	LOC										
	PR											
	PET x SOM	Intercept	0.24734	1.6274	0.152	0.8792	1.28061	51	50	69	77	0
		PETmy	-0.00016	0.00226	-0.07	0.94446	0.99984					
		OM	-0.04192	0.45516	-0.092	0.92661	0.95894					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy*OM	-0.00002	0.00058	-0.036	0.97145	0.99998					
	PET x LOC	Intercept	2.70535	1.29192	2.094	0.03625	14.9595	50	71	113	124	0.04
		PETmy	-0.00359	0.00181	-1.988	0.04676	0.99642					
		LOC	-0.62878	0.3219	-1.953	0.05078	0.53324					
		PETmy*LOC	0.00083	0.00046	1.8	0.07181	1.00083					
	PET x pH	Intercept	-0.88615	6.7913	-0.13	0.89618	0.41224	52	59	109	130	0.01
		PETmy	0	0.00862	0	0.99986	1					
		pH	0.26028	1.08984	0.239	0.81124	1.29729					
		PETmy*pH	-0.00016	0.00139	-0.114	0.9091	0.99984					
	PET x PR	Intercept	4.40846	3.77357	1.168	0.24271	82.14293	59	77	91	96	0.13
		PETmy	-0.00861	0.00526	-1.638	0.10139	0.99143					
		PR	-1.24682	1.37426	-0.907	0.36427	0.28742					
		PETmy*PR	0.00282	0.00192	1.474	0.14062	1.00283					
	PET	Intercept	5.13987	4.4028	1.167	0.24304	170.6941	60	79	86	90	0.14
	LOC	PETmy	-0.00953	0.00601	-1.587	0.1126	0.99051					
	PR	PR	-1.46039	1.53684	-0.95	0.34198	0.23215					
		PETmy*PR	0.00309	0.00211	1.464	0.1432	1.00309					
	T x SOM	Intercept	-0.07764	1.06925	-0.073	0.94211	0.92529	59	62	69	77	0.03
		Tmy	0.05024	0.10676	0.471	0.63797	1.05152					
		OM	-0.33673	0.45917	-0.733	0.46335	0.7141					
		Tmy*OM	0.01504	0.03654	0.412	0.68063	1.01515					
	T x LOC	Intercept	0.1639	0.79025	0.207	0.83569	1.1781	27	88	113	124	0.02
		Tmy	-0.00969	0.07623	-0.127	0.89887	0.99036					
		LOC	-0.21629	0.19379	-1.116	0.26437	0.8055					
		Tmy*LOC	0.01934	0.01944	0.995	0.3196	1.01953					
	T x pH	Intercept	-0.6427	4.22135	-0.152	0.87899	0.52587	57	64	110	130	0.02
		Tmy	-0.06326	0.35652	-0.177	0.85917	0.9387					
		pH	-0.00034	0.69537	0	0.99961	0.99966					
		Tmy*pH	0.02078	0.05956	0.349	0.72724	1.02099					
	T x PR	Intercept	-4.30726	1.87741	-2.294	0.02178	0.01347	64	63	91	96	0.13
		Tmy	0.20947	0.14449	1.45	0.14714	1.23302					
		PR	1.44085	0.77237	1.865	0.06211	4.22427					
		Tmy*PR	-0.04926	0.06049	-0.814	0.41537	0.95193					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	P x SOM	Intercept	0.95721	1.55759	0.615	0.53885	2.60441	63	54	69	77	0.03
		Pmy	-0.00119	0.00226	-0.524	0.60007	0.99881					
		OM	-0.76825	0.6556	-1.172	0.24127	0.46383					
		Pmy*OM	0.00093	0.00088	1.057	0.2906	1.00093					
	P x LOC	Intercept	-1.69016	0.73557	-2.298	0.02158	0.18449	68	62	113	124	0.07
		Pmy	0.00193	0.00076	2.543	0.011	1.00193					
		LOC	0.02982	0.23764	0.125	0.90015	1.03027					
		Pmy*LOC	-0.00007	0.00026	-0.262	0.79302	0.99993					
	P x pH	Intercept	8.00454	4.8436	1.653	0.09841	2994.511	72	52	110	130	0.11
		Pmy	-0.00882	0.0049	-1.798	0.07224	0.99122					
		pH	-1.58418	0.80457	-1.969	0.04896	0.20512					
		Pmy*pH	0.00174	0.0008	2.169	0.0301	1.00174					
	P x PR	Intercept	-4.80927	2.11462	-2.274	0.02295	0.00815	67	63	91	96	0.15
		Pmy	0.00332	0.00196	1.692	0.09071	1.00332					
		PR	1.5629	0.88965	1.757	0.07896	4.77266					
		Pmy*PR	-0.00083	0.00077	-1.084	0.27815	0.99917					
	P	Intercept	-4.80927	2.11462	-2.274	0.02295	0.00815	67	63	92	96	0.15
	pH	Pmy	0.00332	0.00196	1.692	0.09071	1.00332					
	PR	PR	1.5629	0.88965	1.757	0.07896	4.77266					
		Pmy*PR	-0.00083	0.00077	-1.084	0.27815	0.99917					
	NPP x SOM	Intercept	1.50426	2.25848	0.666	0.50538	4.50081	67	50	69	77	0.04
		NPP_lim	-0.00127	0.00213	-0.595	0.55176	0.99873					
		OM	-1.19088	0.93446	-1.274	0.20252	0.30395					
		NPP_lim*OM	0.00098	0.00083	1.182	0.23724	1.00098					
	NPP x LOC	Intercept	-2.00723	1.28919	-1.557	0.11948	0.13436	67	64	113	124	0.04
		NPP_lim	0.00175	0.00106	1.661	0.09677	1.00176					
		LOC	0.01174	0.34569	0.034	0.97291	1.01181					
		NPP_lim*LOC	-0.00006	0.00029	-0.213	0.83139	0.99994					
	NPP x pH	Intercept	13.24774	7.41555	1.786	0.07402	10000+	70	61	110	130	0.08
		NPP_lim	-0.01154	0.00572	-2.018	0.04362	0.98853					
		pH	-2.62833	1.27138	-2.067	0.03871	0.0722					
		NPP_lim*pH	0.00227	0.00098	2.308	0.02102	1.00227					
	NPP x PR	Intercept	-4.97205	2.88769	-1.722	0.0851	0.00693	67	63	91	96	0.13
		NPP_lim	0.00253	0.00213	1.189	0.2343	1.00253					
		PR	1.41831	1.21248	1.17	0.2421	4.13014					
		NPP_lim*PR	-0.00048	0.00087	-0.55	0.58207	0.99952					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	NPP	Intercept										
	SOM	OM										
	pH	PR										
	PR	OM*PR										
PAN	GCI x SOM	Intercept	0.83752	1.28174	0.653	0.51348	2.31063	53	47	71	78	0.03
		GCI	-0.04146	0.03859	-1.074	0.28264	0.95938					
		OM	-0.15142	0.41906	-0.361	0.71785	0.85949					
		GCI*OM	0.01202	0.01306	0.92	0.35734	1.01209					
	GCI x LOC	Intercept	0.93538	0.58844	1.59	0.11193	2.54819	54	78	118	125	0.03
		GCI	-0.02578	0.02007	-1.285	0.19896	0.97455					
		LOC	-0.13474	0.18991	-0.709	0.47803	0.87394					
		GCI*LOC	0.00261	0.00554	0.471	0.63733	1.00262					
	GCI x pH	Intercept	-4.19057	3.65526	-1.146	0.25161	0.01514	55	67	117	131	0.03
		GCI	0.04892	0.08987	0.544	0.58623	1.05013					
		pH	0.75328	0.60352	1.248	0.21198	2.12396					
		GCI*pH	-0.01032	0.01561	-0.661	0.50864	0.98973					
	GCI x PR	Intercept	1.56479	1.23841	1.264	0.20639	4.78168	43	88	93	97	0.06
		GCI	-0.0476	0.02768	-1.72	0.08548	0.95352					
		PR	-0.23468	0.52843	-0.444	0.65696	0.79082					
		GCI*PR	0.0091	0.012	0.758	0.44825	1.00914					
	GCI	Intercept										
	SOM	pH										
	LOC	PR										
	pH	LOC										
	PR											
	AI x SOM	Intercept	-3.1501	2.36659	-1.331	0.18317	0.04285	47	74	68	78	0.04
		AI	2.72675	2.34285	1.164	0.24448	15.2831					
		OM	0.95978	0.7332	1.309	0.19052	2.61113					
		AI*OM	-0.7805	0.69534	-1.122	0.26166	0.45818					
	AI x LOC	Intercept	-1.08494	0.6689	-1.622	0.10481	0.33792	80	30	113	125	0.05
		AI	1.02005	0.51959	1.963	0.04963	2.77334					
		LOC	0.02478	0.51139	0.048	0.96136	1.02509					
		AI*LOC	-0.08435	0.42626	-0.198	0.84314	0.91911					
	AI x pH	Intercept	-5.65304	6.27047	-0.902	0.3673	0.00351	70	45	109	131	0.06
		AI	3.13101	5.3423	0.586	0.55782	22.8972					
		pH	0.73154	0.96775	0.756	0.4497	2.07827					
		AI*pH	-0.35092	0.81151	-0.432	0.66543	0.70404					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	AI x PR	Intercept	-0.43659	1.50963	-0.289	0.77243	0.64624	83	42	91	97	0.06
		AI	0.39181	1.1819	0.332	0.74026	1.47966					
		PR	-0.40778	0.6434	-0.634	0.52622	0.66512					
		AI*PR	0.27341	0.43805	0.624	0.53253	1.31444					
	AI	Intercept										
	SOM	pH										
		PR										
	pH	AI										
	PR											
	PET x SOM	Intercept	2.25352	2.50653	0.899	0.36862	9.52115	59	58	68	78	0.05
		PETmy	-0.004	0.00377	-1.063	0.28787	0.99601					
		OM	-0.74433	0.80075	-0.93	0.35261	0.47505					
		PETmy*OM	0.00135	0.0012	1.131	0.25814	1.00135					
	PET x LOC	Intercept	1.75537	1.1084	1.584	0.11326	5.7856	62	69	113	125	0.02
		PETmy	-0.00212	0.0015	-1.411	0.15833	0.99789					
		LOC	-0.35521	0.27918	-1.272	0.20325	0.70103					
		PETmy*LOC	0.00037	0.00039	0.955	0.33952	1.00037					
	PET x pH	Intercept	-9.16924	6.62043	-1.385	0.16605	0.0001	62	60	110	131	0.03
		PETmy	0.00792	0.00807	0.981	0.32663	1.00795					
		pH	1.53517	1.05992	1.448	0.14751	4.6421					
		PETmy*pH	-0.00135	0.0013	-1.036	0.30013	0.99865					
	PET x PR	Intercept	0.51865	2.61894	0.198	0.84301	1.67976	48	60	91	97	0.02
		PETmy	-0.00132	0.00339	-0.39	0.69641	0.99868					
		PR	0.35915	0.98155	0.366	0.71444	1.43211					
		PETmy*PR	-0.00022	0.00127	-0.173	0.86256	0.99978					
	PET	Intercept										
		LOC										
	LOC	pH										
	pH	LOC*pH										
	T x SOM	Intercept	0.10926	1.05346	0.104	0.91739	1.11546	71	32	69	78	0.03
		Tmy	-0.07384	0.12011	-0.615	0.53868	0.92882					
		OM	-0.04389	0.35966	-0.122	0.90288	0.95706					
		Tmy*OM	0.02707	0.03479	0.778	0.43651	1.02744					
	T x LOC	Intercept	0.67708	0.75139	0.901	0.36753	1.96812	58	69	116	125	0.01
		Tmy	-0.04823	0.07239	-0.666	0.50528	0.95292					
		LOC	-0.19903	0.17477	-1.139	0.25478	0.81953					
		Tmy*LOC	0.01167	0.01735	0.673	0.50119	1.01174					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	T x pH	Intercept	-6.3694	4.13831	-1.539	0.12377	0.00171	49	67	110	131	0.03
		Tmy	0.3048	0.34582	0.881	0.37812	1.35635					
		pH	1.03156	0.67809	1.521	0.12819	2.80544					
		Tmy*pH	-0.04925	0.05772	-0.853	0.39351	0.95194					
	T x PR	Intercept	-0.90789	1.34183	-0.677	0.49865	0.40337	50	56	91	97	0.01
		Tmy	0.03565	0.11322	0.315	0.75288	1.03629					
		PR	0.43641	0.58555	0.745	0.45609	1.54714					
		Tmy*PR	-0.01867	0.04831	-0.386	0.69922	0.98151					
	T	Intercept										
		LOC										
	LOC	pH										
	pH	LOC*pH										
	P x SOM	Intercept	-0.49104	1.50828	-0.326	0.74475	0.61199	66	47	69	78	0.02
		Pmy	-0.00007	0.00221	-0.033	0.97339	0.99993					
		OM	0.0763	0.53075	0.144	0.88569	1.07929					
		Pmy*OM	0.00018	0.00075	0.242	0.80889	1.00018					
	P x LOC	Intercept	-0.96179	0.65639	-1.465	0.14285	0.38221	65	43	116	125	0.03
		Pmy	0.00129	0.00071	1.803	0.07133	1.00129					
		LOC	0.05164	0.21335	0.242	0.80876	1.05299					
		Pmy*LOC	-0.00016	0.00024	-0.661	0.50872	0.99984					
	P x pH	Intercept	-3.78483	4.61558	-0.82	0.41221	0.02271	58	49	110	131	0.05
		Pmy	0.00111	0.0046	0.242	0.80917	1.00111					
		pH	0.47446	0.74828	0.634	0.52604	1.60714					
		Pmy*pH	-0.00002	0.00074	-0.024	0.98064	0.99998					
	P x PR	Intercept	-0.18356	1.58704	-0.116	0.90792	0.8323	74	49	91	97	0.04
		Pmy	0.00014	0.00161	0.089	0.92879	1.00014					
		PR	-0.41777	0.71841	-0.582	0.56089	0.65851					
		Pmy*PR	0.00045	0.00064	0.7	0.48362	1.00045					
	SOM											
	LOC											
	pH											
	PR											
	NPP x SOM	Intercept	-0.34457	2.14865	-0.16	0.87259	0.70852	66	42	69	78	0.02
		NPP_lim	-0.00019	0.00206	-0.091	0.92728	0.99981					
		OM	0.0205	0.73212	0.028	0.97766	1.02071					
		NPP_lim*OM	0.00017	0.00069	0.253	0.80017	1.00017					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	NPP x LOC	Intercept	-0.46661	1.16573	-0.4	0.68896	0.62713	39	76	116	125	0.01
		NPP_lim	0.00055	0.00097	0.567	0.57047	1.00055					
		LOC	-0.06579	0.30726	-0.214	0.83045	0.93632					
		NPP_lim*LOC	-0.00002	0.00025	-0.092	0.92655	0.99998					
	NPP x pH	Intercept	-5.20333	6.60788	-0.787	0.43102	0.0055	53	65	110	131	0.03
		NPP_lim	0.00157	0.00503	0.313	0.75452	1.00157					
		pH	0.72888	1.10081	0.662	0.50788	2.07276					
		NPP_lim*pH	-0.00016	0.00085	-0.185	0.85318	0.99984					
	NPP x PR	Intercept	-0.70983	2.2675	-0.313	0.75424	0.49173	69	47	91	97	0.02
		NPP_lim	0.00027	0.00174	0.154	0.87748	1.00027					
		PR	-0.03791	0.98812	-0.038	0.96939	0.9628					
		NPP_lim*PR	0.00017	0.00073	0.233	0.81544	1.00017					
	SOM											
	LOC											
	pH											
	PR											
COL	GCI x SOM	Intercept	2.44249	1.86362	1.311	0.18999	11.50168	63	91	70	78	0.28
		GCI	-0.04291	0.06446	-0.666	0.50554	0.95799					
		OM	0.14702	0.66034	0.223	0.82382	1.15837					
		GCI*OM	-0.01631	0.02438	-0.669	0.50346	0.98382					
	GCI x LOC	Intercept	-0.33263	0.84979	-0.391	0.69548	0.71704	55	87	114	125	0.17
		GCI	0.04393	0.03211	1.368	0.17135	1.0449					
		LOC	0.50605	0.40701	1.243	0.21374	1.65873					
		GCI*LOC	-0.03084	0.01495	-2.063	0.03914	0.96963					
	GCI x pH	Intercept	12.54406	4.28353	2.928	0.00341	10000+	55	70	110	131	0.13
		GCI	-0.32381	0.11772	-2.751	0.00595	0.72339					
		pH	-1.85124	0.68775	-2.692	0.00711	0.15704					
		GCI*pH	0.04744	0.01921	2.469	0.01355	1.04858					
	GCI x PR	Intercept	-0.04928	2.11852	-0.023	0.98144	0.95192	73	90	93	97	0.36
		GCI	-0.04182	0.05931	-0.705	0.48076	0.95905					
		PR	1.82795	1.13083	1.616	0.10599	6.22113					
		GCI*PR	-0.03249	0.03331	-0.975	0.32931	0.96803					
	GCI											
	SOM											
	LOC											
	pH											
	PR											

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	AI x SOM	Intercept	0.18235	1.9449	0.094	0.9253	1.20004	50	69	68	78	0.02
		AI	0.3973	2.02991	0.196	0.84483	1.4878					
		OM	-0.13728	0.61089	-0.225	0.8222	0.87173					
		AI*OM	-0.11274	0.6085	-0.185	0.85301	0.89338					
	AI x LOC	Intercept	-0.50177	0.7379	-0.68	0.49651	0.60546	59	83	109	125	0.16
		AI	1.02706	0.59813	1.717	0.08595	2.79285					
		LOC	-0.46934	0.65754	-0.714	0.47536	0.62541					
		AI*LOC	0.06632	0.55035	0.121	0.90409	1.06857					
	AI x pH	Intercept	5.42032	6.02712	0.899	0.36848	225.9505	72	47	104	131	0.07
		AI	-4.01165	5.24304	-0.765	0.44419	0.0181					
		pH	-1.08758	0.94098	-1.156	0.24777	0.33703					
		AI*pH	0.81073	0.80426	1.008	0.31343	2.24956					
	AI x PR	Intercept	-3.77932	1.70631	-2.215	0.02677	0.02284	73	54	91	97	0.11
		AI	2.16303	1.32713	1.63	0.10313	8.69744					
		PR	1.15899	0.71012	1.632	0.10266	3.18671					
		AI*PR	-0.49404	0.48524	-1.018	0.30861	0.61016					
	AI											
	SOM											
	LOC											
	pH											
	PR											
	PET x SOM	Intercept	8.19053	2.29708	3.566	0.00036	3606.616	65	75	68	78	0.19
		PETmy	-0.01119	0.0034	-3.294	0.00099	0.98887					
		OM	-1.66529	0.60159	-2.768	0.00564	0.18914					
		PETmy*OM	0.00208	0.00079	2.619	0.00883	1.00208					
	PET x LOC	Intercept	4.75541	1.49748	3.176	0.0015	116.2111	73	81	109	125	0.23
		PETmy	-0.00523	0.00214	-2.445	0.01447	0.99479					
		LOC	-0.35677	0.56366	-0.633	0.52677	0.69993					
		PETmy*LOC	-0.0002	0.00094	-0.216	0.82914	0.9998					
	PET x pH	Intercept	30.16146	10.39406	2.902	0.00371	10000+	58	73	104	131	0.16
		PETmy	-0.041	0.01466	-2.797	0.00516	0.95983					
		pH	-4.28921	1.59176	-2.695	0.00705	0.01372					
		PETmy*pH	0.00582	0.00224	2.604	0.00922	1.00584					
	PET x PR	Intercept	5.13368	5.29262	0.97	0.33206	169.6401	78	81	91	97	0.36
		PETmy	-0.00932	0.00733	-1.27	0.20401	0.99073					
		PR	1.63371	2.19894	0.743	0.45751	5.12285					
		PETmy*PR	-0.0013	0.00308	-0.421	0.67365	0.9987					
	PET	Intercept										

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	SOM	PETmy										
		pH										
	pH	PETmy*pH										
	T x SOM	Intercept	2.96932	1.20643	2.461	0.01385	19.47863	52	72	68	78	0.07
		Tmy	-0.27119	0.12772	-2.123	0.03372	0.76247					
		OM	-1.09132	0.519	-2.103	0.03549	0.33577					
		Tmy*OM	0.08514	0.04283	1.988	0.04682	1.08887					
	T x LOC	Intercept	2.95086	0.86938	3.394	0.00069	19.12247	61	80	112	125	0.17
		Tmy	-0.21388	0.08545	-2.503	0.01232	0.80744					
		LOC	-0.69047	0.2356	-2.931	0.00338	0.50134					
		Tmy*LOC	0.02906	0.02499	1.163	0.24489	1.02949					
	T x pH	Intercept	9.41799	4.20895	2.238	0.02525	10000+	41	85	105	131	0.06
		Tmy	-0.95319	0.3955	-2.41	0.01595	0.38551					
		pH	-1.43875	0.68852	-2.09	0.03665	0.23722					
		Tmy*pH	0.14614	0.06475	2.257	0.02402	1.15735					
	T x PR	Intercept	-5.84816	2.26954	-2.577	0.00997	0.00289	73	71	91	97	0.26
		Tmy	0.36027	0.21177	1.701	0.0889	1.43372					
		PR	4.15448	1.40422	2.959	0.00309	63.71882					
		Tmy*PR	-0.30901	0.14005	-2.206	0.02735	0.73417					
	T	Intercept										
	SOM	LOC										
	LOC	PR										
	pH	LOC*PR										
	PR											
	P x SOM	Intercept	3.18015	1.73772	1.83	0.06724	24.05039	43	69	68	78	0.08
		Pmy	-0.00422	0.00273	-1.545	0.12239	0.99578					
		OM	-0.65467	0.60472	-1.083	0.27899	0.51961					
		Pmy*OM	0.00079	0.00088	0.892	0.37234	1.00079					
	P x LOC	Intercept	-0.26857	0.69572	-0.386	0.69947	0.76447	55	87	112	125	0.14
		Pmy	0.0013	0.00082	1.585	0.11298	1.0013					
		LOC	0.21539	0.37188	0.579	0.56246	1.24035					
		Pmy*LOC	-0.00086	0.00053	-1.619	0.10549	0.99914					
	P x pH	Intercept	16.96094	4.92575	3.443	0.00057	10000+	66	67	105	131	0.1
		Pmy	-0.01965	0.00552	-3.56	0.00037	0.98054					
		pH	-2.80415	0.79937	-3.508	0.00045	0.06056					
		Pmy*pH	0.00323	0.00088	3.669	0.00024	1.00323					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	P x PR	Intercept	-4.21327	1.86783	-2.256	0.02409	0.0148	56	71	91	97	0.1
		Pmy	0.00247	0.00178	1.384	0.16645	1.00247					
		PR	2.19637	0.87717	2.504	0.01228	8.99232					
		Pmy*PR	-0.00133	0.00075	-1.776	0.07581	0.99867					
	P	Intercept										
		pH										
		PR										
	pH	Pmy										
	PR											
	NPP x SOM	Intercept	3.8551	2.32398	1.659	0.09715	47.23345	46	69	68	78	0.06
		NPP_lim	-0.00331	0.00229	-1.443	0.14902	0.99669					
		OM	-0.88026	0.80857	-1.089	0.2763	0.41468					
		NPP_lim*OM	0.00069	0.00076	0.919	0.35832	1.00069					
	NPP x LOC	Intercept	1.22369	1.32616	0.923	0.35615	3.3997	52	87	112	125	0.13
		NPP_lim	-0.00035	0.00114	-0.307	0.75922	0.99965					
		LOC	-0.08253	0.5214	-0.158	0.87423	0.92079					
		NPP_lim*LOC	-0.00031	0.00048	-0.634	0.52585	0.99969					
	NPP x pH	Intercept	21.75227	7.3875	2.944	0.00324	10000+	62	75	105	131	0.07
		NPP_lim	-0.0182	0.00607	-2.996	0.00273	0.98197					
		pH	-3.50683	1.21739	-2.881	0.00397	0.02999					
		NPP_lim*pH	0.00294	0.001	2.941	0.00327	1.00294					
	NPP x PR	Intercept	-7.36126	2.80917	-2.62	0.00878	0.00064	69	69	91	97	0.17
		NPP_lim	0.00404	0.00206	1.964	0.04954	1.00405					
		PR	4.39555	1.31889	3.333	0.00086	81.08959					
		NPP_lim*PR	-0.00262	0.00093	-2.826	0.00471	0.99738					
	NPP											
	SOM											
	LOC											
	pH											
	PR											
EAR	GCI x SOM	Intercept	0.8341	1.46134	0.571	0.56815	2.30274	72	62	71	78	0.14
		GCI	-0.04731	0.04588	-1.031	0.30254	0.95379					
		OM	0.3145	0.48353	0.65	0.51541	1.36958					
		GCI*OM	0.0016	0.01499	0.107	0.91476	1.00161					
	GCI x LOC	Intercept	2.57684	0.85599	3.01	0.00261	13.15554	78	54	115	125	0.2
		GCI	-0.06485	0.02999	-2.162	0.03059	0.93721					
		LOC	-0.44201	0.28444	-1.554	0.1202	0.64275					
		GCI*LOC	0.00495	0.00922	0.537	0.59114	1.00496					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	GCI x pH	Intercept	6.64181	4.76583	1.394	0.16343	766.4806	78	32	113	131	0.18
		GCI	-0.19203	0.14708	-1.306	0.19169	0.82528					
		pH	-0.75911	0.77672	-0.977	0.32841	0.46808					
		GCI*pH	0.02108	0.02435	0.866	0.38674	1.0213					
	GCI x PR	Intercept	5.7942	1.9106	3.033	0.00242	328.3905	79	59	93	97	0.23
		GCI	-0.10187	0.04555	-2.236	0.02533	0.90315					
		PR	-1.43097	0.89601	-1.597	0.11026	0.23908					
		GCI*PR	0.01383	0.024	0.576	0.56429	1.01393					
	GCI	Intercept										
		GCI										
	LOC	PR										
		LOC										
	PR											
	AI x SOM	Intercept	-0.46373	2.22681	-0.208	0.83504	0.62893	68	74	68	78	0.05
		AI	-0.47637	2.2833	-0.209	0.83474	0.62103					
		OM	0.46521	0.72812	0.639	0.52287	1.59235					
		AI*OM	-0.06518	0.69966	-0.093	0.92578	0.9369					
	AI x LOC	Intercept	3.0103	0.76428	3.939	0.00008	20.29339	74	72	110	125	0.18
		AI	-1.76475	0.57659	-3.061	0.00221	0.17123					
		LOC	-1.89627	0.72149	-2.628	0.00858	0.15013					
		AI*LOC	1.21648	0.57776	2.106	0.03525	3.37528					
	AI x pH	Intercept	-15.8018	6.38591	-2.474	0.01334	0	73	61	107	131	0.07
		AI	11.46403	5.45776	2.101	0.03568	10000+					
		pH	2.61139	0.99341	2.629	0.00857	13.61799					
		AI*pH	-1.87512	0.83667	-2.241	0.02501	0.15334					
	AI x PR	Intercept	-0.98448	1.5961	-0.617	0.53737	0.37363	88	43	92	97	0.05
		AI	1.52481	1.32119	1.154	0.24845	4.59427					
		PR	0.47736	0.68892	0.693	0.48836	1.61181					
		AI*PR	-0.6749	0.51686	-1.306	0.19163	0.50921					
	AI	Intercept										
		AI										
	LOC	LOC										
	pH	pH										
	PET x SOM	Intercept	2.6506	2.37513	1.116	0.26443	14.1625	60	64	68	78	0.08
		PETmy	-0.0052	0.00358	-1.453	0.14612	0.99481					
		OM	-0.3937	0.73404	-0.536	0.59172	0.67456					
		PETmy*OM	0.00113	0.00109	1.04	0.29857	1.00113					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	PET x LOC	Intercept	-8.05958	2.52783	-3.188	0.00143	0.00032	72	72	111	125	0.29
		PETmy	0.01315	0.00388	3.392	0.00069	1.01324					
		LOC	2.51659	0.86196	2.92	0.0035	12.38632					
		PETmy*LOC	-0.00479	0.00148	-3.248	0.00116	0.99522					
	PET x pH	Intercept	42.55713	10.67044	3.988	0.00007	10000+	80	76	107	131	0.24
		PETmy	-0.06289	0.01561	-4.028	0.00006	0.93904					
		pH	-7.42653	1.82865	-4.061	0.00005	0.0006					
		PETmy*pH	0.011	0.00271	4.067	0.00005	1.01106					
	PET x PR	Intercept	10.87224	3.60407	3.017	0.00256	10000+	72	57	92	97	0.14
		PETmy	-0.01296	0.00471	-2.754	0.00589	0.98712					
		PR	-2.99773	1.29249	-2.319	0.02038	0.0499					
		PETmy*PR	0.00322	0.00166	1.942	0.05217	1.00323					
	PET	Intercept										
		PETmy										
	LOC	LOC										
	pH	PETmy*LOC										
	T x SOM	Intercept	0.97376	1.30544	0.746	0.45571	2.64787	52	89	69	78	0.1
		Tmy	-0.24338	0.17444	-1.395	0.16296	0.78398					
		OM	-0.45495	0.45896	-0.991	0.32156	0.63448					
		Tmy*OM	0.09749	0.05726	1.703	0.08864	1.1024					
	T x LOC	Intercept	-4.22158	1.30821	-3.227	0.00125	0.01468	81	69	113	125	0.26
		Tmy	0.53685	0.14835	3.619	0.0003	1.71061					
		LOC	0.67572	0.36274	1.863	0.06249	1.96544					
		Tmy*LOC	-0.14422	0.0508	-2.839	0.00452	0.8657					
	T x pH	Intercept	17.61167	5.49297	3.206	0.00134	10000+	72	68	108	131	0.23
		Tmy	-2.08038	0.55745	-3.732	0.00019	0.12488					
		pH	-3.32995	0.96747	-3.442	0.00058	0.03579					
		Tmy*pH	0.38845	0.0996	3.9	0.0001	1.47469					
	T x PR	Intercept	-1.93033	1.6904	-1.142	0.25348	0.1451	63	48	92	97	0.07
		Tmy	0.27962	0.1647	1.698	0.08956	1.32263					
		PR	1.32421	0.95696	1.384	0.16643	3.75921					
		Tmy*PR	-0.17541	0.09919	-1.768	0.07698	0.83911					
	T	Intercept										
		Tmy										
	LOC	LOC										
	pH	Tmy*LOC										

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	P x SOM	Intercept	1.10707	1.91397	0.578	0.56299	3.02547	68	62	69	78	0.09
		Pmy	-0.00326	0.00299	-1.09	0.27582	0.99675					
		OM	0.15457	0.64925	0.238	0.81183	1.16715					
		Pmy*OM	0.00048	0.00092	0.516	0.60551	1.00048					
	P x LOC	Intercept	1.46476	0.68585	2.136	0.0327	4.32651	85	51	113	125	0.13
		Pmy	-0.00075	0.00076	-0.983	0.32576	0.99926					
		LOC	-0.38502	0.31373	-1.227	0.21974	0.68044					
		Pmy*LOC	-0.00007	0.00039	-0.168	0.86644	0.99993					
	P x pH	Intercept	0.61565	4.38771	0.14	0.88841	1.85085	65	38	108	131	0.02
		Pmy	-0.00331	0.00468	-0.707	0.47952	0.9967					
		pH	0.00125	0.71255	0.002	0.9986	1.00125					
		Pmy*pH	0.00042	0.00075	0.563	0.5732	1.00042					
	P x PR	Intercept	0.91272	1.58986	0.574	0.56591	2.49109	84	52	92	97	0.06
		Pmy	-0.00041	0.00169	-0.244	0.80711	0.99959					
		PR	0.09759	0.70705	0.138	0.89023	1.10251					
		Pmy*PR	-0.00037	0.00068	-0.548	0.58381	0.99963					
	SOM											
	LOC											
	pH											
	PR											
	NPP x SOM	Intercept	3.48265	2.96121	1.176	0.23956	32.54582	68	62	69	78	0.09
		NPP_lim	-0.00442	0.00301	-1.468	0.14218	0.99559					
		OM	-0.59569	0.93741	-0.635	0.52513	0.55118					
		NPP_lim*OM	0.00101	0.00091	1.114	0.26528	1.00101					
	NPP x LOC	Intercept	-0.39792	1.31196	-0.303	0.76166	0.67171	85	51	113	125	0.13
		NPP_lim	0.00103	0.00113	0.913	0.36107	1.00103					
		LOC	0.13881	0.51179	0.271	0.78622	1.1489					
		NPP_lim*LOC	-0.00051	0.00047	-1.082	0.27941	0.99949					
	NPP x pH	Intercept	10.32646	6.61138	1.562	0.11831	10000+	47	62	108	131	0.04
		NPP_lim	-0.01008	0.00528	-1.907	0.05654	0.98997					
		pH	-1.77131	1.1068	-1.6	0.10951	0.17011					
		NPP_lim*pH	0.00172	0.00089	1.937	0.0527	1.00172					
	NPP x PR	Intercept	-0.71661	2.5283	-0.283	0.77684	0.4884	81	50	92	97	0.08
		NPP_lim	0.00114	0.00202	0.565	0.57223	1.00114					
		PR	1.29995	1.20817	1.076	0.28194	3.66911					
		NPP_lim*PR	-0.00133	0.00096	-1.38	0.16772	0.99868					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	SOM											
	LOC											
	pH											
	PR											
ERO	GCI x SOM	Intercept	-1.62003	2.22876	-0.727	0.4673	0.19789	86	61	72	78	0.25
		GCI	0.0132	0.07988	0.165	0.86874	1.01329					
		OM	-0.42183	0.77757	-0.542	0.58748	0.65585					
		GCI*OM	0.03113	0.03092	1.007	0.31405	1.03162					
	GCI x LOC	Intercept	QS					92	38	115	125	0.13
		GCI	QS									
		LOC	QS									
		GCI*LOC	QS									
	GCI x pH	Intercept	-9.75839	4.93798	-1.976	0.04813	0.00006	59	70	110	131	0.13
		GCI	0.17348	0.16208	1.07	0.28448	1.18943					
		pH	1.34907	0.82563	1.634	0.10226	3.85384					
		GCI*pH	-0.02006	0.02762	-0.726	0.46762	0.98014					
	GCI x PR	Intercept	-3.8365	2.22875	-1.721	0.08518	0.02157	86	43	94	97	0.16
		GCI	0.11732	0.07237	1.621	0.10501	1.12448					
		PR	0.45052	0.97678	0.461	0.64463	1.56913					
		GCI*PR	-0.01291	0.03082	-0.419	0.67519	0.98717					
	GCI											
	SOM											
	LOC											
	pH											
	PR											
	AI x SOM	Intercept	0.53646	1.98073	0.271	0.78651	1.70995	73	41	70	78	0.03
		AI	-1.25699	2.13254	-0.589	0.55557	0.28451					
		OM	-0.24365	0.56278	-0.433	0.66506	0.78376					
		AI*OM	0.55188	0.61205	0.902	0.36722	1.73651					
	AI x LOC	Intercept	-6.44925	1.6597	-3.886	0.0001	0.00158	88	67	112	125	0.25
		AI	5.39536	1.59933	3.374	0.00074	220.3815					
		LOC	4.84403	1.65562	2.926	0.00344	126.9799					
		AI*LOC	-3.79963	1.29269	-2.939	0.00329	0.02238					
	AI x pH	Intercept	-1.3005	7.32253	-0.178	0.85903	0.2724	69	49	105	131	0.06
		AI	-0.17867	6.82012	-0.026	0.9791	0.83638					
		pH	-0.04749	1.14914	-0.041	0.96703	0.95362					
		AI*pH	0.26313	1.06506	0.247	0.80486	1.301					
	AI x PR	Intercept	7.17193	3.66193	1.959	0.05017	1302.356	76	74	92	97	0.2

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI	-5.71864	3.21797	-1.777	0.07555	0.00328					
		PR	-4.45257	1.76103	-2.528	0.01146	0.01165					
		AI*PR	3.61846	1.5797	2.291	0.02199	37.2803					
	AI	Intercept	QS									
		AI	QS									
	LOC	LOC	QS									
		PR	QS									
	PR											
	PET x SOM	Intercept	-7.73356	2.44801	-3.159	0.00158	0.00044	73	63	70	78	0.16
		PETmy	0.01041	0.00367	2.841	0.0045	1.01047					
		OM	1.76739	0.62606	2.823	0.00476	5.85553					
		PETmy*OM	-0.00209	0.00078	-2.693	0.00707	0.99791					
	PET x LOC	Intercept	QS					85	43	111	125	0.12
		PETmy	QS									
		LOC	QS									
		PETmy*LOC	QS									
	PET x pH	Intercept	-40.691	13.01155	-3.127	0.00176	0	55	75	105	131	0.14
		PETmy	0.05386	0.01936	2.782	0.00541	1.05533					
		pH	6.19146	1.97716	3.131	0.00174	488.5608					
		PETmy*pH	-0.00813	0.00292	-2.789	0.00528	0.9919					
	PET x PR	Intercept	-12.0659	5.22968	-2.307	0.02104	0.00001	90	59	92	97	0.13
		PETmy	0.0171	0.00757	2.26	0.0238	1.01725					
		PR	2.54871	1.65097	1.544	0.12264	12.79062					
		PETmy*PR	-0.00353	0.00233	-1.515	0.12971	0.99648					
	PET	Intercept	QS									
	SOM	LOC	QS									
	LOC	PR	QS									
	pH	pH	QS									
	PR											
	T x SOM	Intercept	-3.17449	1.31756	-2.409	0.01598	0.04182	73	50	71	78	0.08
		Tmy	0.3192	0.14957	2.134	0.03283	1.37603					
		OM	0.96867	0.54006	1.794	0.07287	2.63443					
		Tmy*OM	-0.07977	0.04422	-1.804	0.07123	0.92333					
	T x LOC	Intercept	QS					69	52	115	125	0.1
		Tmy	QS									
		LOC	QS									
		Tmy*LOC	QS									
	T x pH	Intercept	-11.0942	4.95598	-2.239	0.02519	0.00002	48	70	106	131	0.06

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Tmy	0.91231	0.51344	1.777	0.07559	2.49006					
		pH	1.68024	0.81949	2.05	0.04033	5.36684					
		Tmy*pH	-0.13481	0.08376	-1.609	0.10751	0.87388					
	T x PR	Intercept	4.34487	2.56683	1.693	0.09051	77.08224	62	82	92	97	0.2
		Tmy	-0.46321	0.27474	-1.686	0.0918	0.62926					
		PR	-4.74343	1.67077	-2.839	0.00452	0.00871					
		Tmy*PR	0.52391	0.18935	2.767	0.00566	1.68861					
	SOM											
	LOC											
	pH											
	PR											
	P x SOM	Intercept	-1.67611	2.27973	-0.735	0.4622	0.1871	77	41	71	78	0.09
		Pmy	0.00182	0.00375	0.487	0.62656	1.00182					
		OM	-0.1067	0.88598	-0.12	0.90414	0.89879					
		Pmy*OM	0.0004	0.0014	0.286	0.77451	1.0004					
	P x LOC	Intercept	-3.99544	1.03273	-3.869	0.00011	0.0184	73	68	115	125	0.19
		Pmy	0.00475	0.0015	3.171	0.00152	1.00476					
		LOC	0.616	0.33796	1.823	0.06835	1.85151					
		Pmy*LOC	-0.00057	0.00045	-1.276	0.20194	0.99943					
	P x pH	Intercept	-8.99259	6.99565	-1.285	0.19863	0.00012	83	51	106	131	0.14
		Pmy	0.00993	0.00999	0.994	0.32024	1.00998					
		pH	1.031	1.11267	0.927	0.35413	2.80388					
		Pmy*pH	-0.00104	0.00157	-0.665	0.50579	0.99896					
	P x PR	Intercept	1.66306	2.99119	0.556	0.57822	5.27542	86	71	92	97	0.26
		Pmy	-0.00056	0.00412	-0.136	0.89158	0.99944					
		PR	-2.36102	1.37337	-1.719	0.08559	0.09432					
		Pmy*PR	0.00228	0.00192	1.187	0.23512	1.00229					
	SOM											
	LOC											
	pH											
	PR											
	NPP x SOM	Intercept	-1.11378	3.17481	-0.351	0.72573	0.32832	86	41	71	78	0.1
		NPP_lim	0.00054	0.00327	0.165	0.86884	1.00054					
		OM	-0.69209	1.24844	-0.554	0.57933	0.50053					
		NPP_lim*OM	0.00085	0.00127	0.671	0.50195	1.00085					
	NPP x LOC	Intercept	-5.07448	1.75143	-2.897	0.00376	0.00625	73	68	115	125	0.15

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		NPP_lim	0.00415	0.00165	2.511	0.01205	1.00416					
		LOC	0.24878	0.91329	0.272	0.78531	1.28246					
		NPP_lim*LOC	-0.00001	0.00092	-0.013	0.98934	0.99999					
	NPP x pH	Intercept	-11.5923	10.14547	-1.143	0.2532	0.00001	83	54	106	131	0.12
		NPP_lim	0.00802	0.00937	0.856	0.39208	1.00805					
		pH	1.28626	1.64907	0.78	0.4354	3.61922					
		NPP_lim*pH	-0.00077	0.00152	-0.507	0.61246	0.99923					
	NPP x PR	Intercept	4.03926	4.13253	0.977	0.32836	56.784007	76	72	92	97	0.22
		NPP_lim	-0.00283	0.00363	-0.781	0.43453	0.99717					
		PR	-4.44495	2.02602	-2.194	0.02824	0.01174					
		NPP_lim*PR	0.0036	0.00181	1.988	0.04676	1.00361					
	SOM											
	LOC											
	pH											
	PR											
PON	GCI x SOM	Intercept	7.35799	2.71203	2.713	0.00667	1568.688	54	85	53	59	0.2
		GCI	-0.25548	0.09554	-2.674	0.00749	0.77454					
		OM	-2.89561	0.95773	-3.023	0.0025	0.05527					
		GCI*OM	0.10871	0.03826	2.842	0.00449	1.11484					
	GCI x LOC	Intercept	-2.10043	1.29143	-1.626	0.10386	0.1224	67	40	97	106	0.1
		GCI	0.05234	0.04364	1.199	0.23039	1.05374					
		LOC	1.84838	1.20494	1.534	0.12503	6.34951					
		GCI*LOC	-0.03722	0.02344	-1.588	0.11235	0.96346					
	GCI x pH	Intercept	-6.27544	6.32035	-0.993	0.32076	0.00188	62	69	92	112	0.07
		GCI	0.06168	0.23457	0.263	0.79258	1.06363					
		pH	0.85423	1.05662	0.808	0.41883	2.34956					
		GCI*pH	-0.00342	0.03945	-0.087	0.93092	0.99659					
	GCI x PR	Intercept	-0.47758	2.09592	-0.228	0.81976	0.62028	65	70	74	78	0.14
		GCI	-0.04097	0.05954	-0.688	0.49145	0.95986					
		PR	-1.65669	1.58236	-1.047	0.29511	0.19077					
		GCI*PR	0.08615	0.05219	1.651	0.0988	1.08997					
	SOM											
	LOC											
	pH											
	PR											
	AI x SOM	Intercept	-9.49529	5.26853	-1.802	0.0715	0.00008	100	52	51	59	0.12

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI	10.59397	5.58775	1.896	0.05797	10000+					
		OM	2.72023	1.88226	1.445	0.1484	15.183837					
		AI*OM	-2.99405	1.82036	-1.645	0.10002	0.05008					
	AI x LOC	Intercept	0.05904	1.35585	0.044	0.96527	1.06082	87	49	93	106	0.12
		AI	-0.69597	1.33551	-0.521	0.60228	0.49859					
		LOC	-2.16161	1.78349	-1.212	0.22551	0.11514					
		AI*LOC	2.58379	1.90398	1.357	0.17477	13.247222					
	AI x pH	Intercept	2.33036	8.53303	0.273	0.78478	10.28161	62	62	87	112	0.04
		AI	-5.96619	8.03454	-0.743	0.45774	0.00256					
		pH	-0.40274	1.33558	-0.302	0.763	0.66848					
		AI*pH	0.98228	1.24331	0.79	0.4295	2.67053					
	AI x PR	Intercept	-0.44314	2.40484	-0.184	0.8538	0.64202	76	52	72	78	0.06
		AI	-0.68527	2.03732	-0.336	0.7366	0.50395					
		PR	0.01014	1.04972	0.01	0.99229	1.01019					
		AI*PR	0.4689	0.83535	0.561	0.57458	1.59824					
	SOM											
	LOC											
	pH											
	PR											
	PET x SOM	Intercept	14.97185	8.06291	1.857	0.06333	10000+	54	87	51	59	0.13
		PETmy	-0.02311	0.01296	-1.784	0.07443	0.97715					
		OM	-4.01066	2.69577	-1.488	0.13681	0.01812					
		PETmy*OM	0.00621	0.00443	1.402	0.16097	1.00623					
	PET x LOC	Intercept	-0.78349	2.68531	-0.292	0.77046	0.45681	80	42	92	106	0.09
		PETmy	0.00069	0.00377	0.183	0.85513	1.00069					
		LOC	2.69107	3.27931	0.821	0.41186	14.747443					
		PETmy*LOC	-0.0034	0.00448	-0.758	0.44825	0.99661					
	PET x pH	Intercept	-20.34612	12.80362	-1.589	0.11204	0	57	65	87	112	0.06
		PETmy	0.02318	0.01894	1.223	0.2212	1.02345					
		pH	3.35275	1.96361	1.707	0.08774	28.581155					
		PETmy*pH	-0.0038	0.00287	-1.323	0.18578	0.9962					
	PET x PR	Intercept	-20.6965	9.99617	-2.07	0.03841	0	65	49	72	78	0.11
		PETmy	0.0284	0.01472	1.929	0.05372	1.02881					
		PR	10.1086	4.82917	2.093	0.03633	10000+					
		PETmy*PR	-0.01404	0.00718	-1.955	0.05056	0.98606					
	SOM											

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	LOC											
	pH											
	PR											
	T x SOM	Intercept	2.63451	2.00026	1.317	0.18781	13.93649	69	80	52	59	0.04
		Tmy	-0.31438	0.28584	-1.1	0.27139	0.73024					
		OM	-0.64049	0.53013	-1.208	0.22698	0.52703					
		Tmy*OM	0.06822	0.07293	0.935	0.34956	1.0706					
	T x LOC	Intercept	0.76997	1.34397	0.573	0.56671	2.1597	93	37	96	106	0.07
		Tmy	-0.15885	0.16054	-0.99	0.32241	0.85312					
		LOC	-0.19684	0.82747	-0.238	0.81198	0.82133					
		Tmy*LOC	0.10607	0.14106	0.752	0.45208	1.1119					
	T x pH	Intercept	-10.7765	7.01223	-1.537	0.12434	0.00002	67	59	88	112	0.06
		Tmy	0.66996	0.76315	0.878	0.38	1.95417					
		pH	1.90452	1.14592	1.662	0.09651	6.71618					
		Tmy*pH	-0.12293	0.12151	-1.012	0.3117	0.88433					
	T x PR	Intercept	-7.76946	3.65078	-2.128	0.03332	0.00042	65	67	72	78	0.11
		Tmy	0.65708	0.37442	1.755	0.07927	1.92915					
		PR	4.03358	2.30336	1.751	0.07992	56.46272					
		Tmy*PR	-0.35519	0.24435	-1.454	0.14604	0.70104					
	SOM											
	LOC											
	pH											
	PR											
	P x SOM	Intercept	-12.4463	7.46676	-1.667	0.09554	0	69	70	52	59	0.08
		Pmy	0.02231	0.013	1.716	0.08616	1.02256					
		OM	3.43975	2.21976	1.55	0.12124	31.17907					
		Pmy*OM	-0.00619	0.00373	-1.66	0.09691	0.99383					
	P x LOC	Intercept	-0.89577	1.34877	-0.664	0.5066	0.40829	73	53	96	106	0.08
		Pmy	0.00012	0.00209	0.058	0.95363	1.00012					
		LOC	-0.56984	1.89361	-0.301	0.76347	0.56562					
		Pmy*LOC	0.00166	0.0031	0.537	0.59101	1.00167					
	P x pH	Intercept	-6.71672	8.5861	-0.782	0.43405	0.00121	52	67	88	112	0.03
		Pmy	0.00399	0.01223	0.326	0.74418	1.004					
		pH	1.03661	1.34074	0.773	0.43943	2.81965					
		Pmy*pH	-0.00057	0.00187	-0.304	0.76105	0.99943					
	P x PR	Intercept	-2.86704	2.73531	-1.048	0.29456	0.05687	76	52	72	78	0.07
		Pmy	0.00215	0.0034	0.632	0.52731	1.00215					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PR	0.82731	1.12448	0.736	0.46189	2.28717					
		Pmy*PR	-0.00033	0.00128	-0.257	0.7972	0.99967					
	SOM											
	LOC											
	pH											
	PR											
	NPP x SOM	Intercept	-22.33366	12.20456	-1.83	0.06726	0	69	78	52	59	0.1
		NPP_lim	0.02419	0.01298	1.863	0.06245	1.02448					
		OM	6.42449	3.51708	1.827	0.06775	616.7655					
		NPP_lim*OM	-0.00693	0.00366	-1.891	0.0586	0.99309					
	NPP x LOC	Intercept	-1.08916	2.52301	-0.432	0.66597	0.3365	67	43	96	106	0.07
		NPP_lim	0.00034	0.00246	0.136	0.89144	1.00034					
		LOC	-0.84914	3.02094	-0.281	0.77865	0.42778					
		NPP_lim*LOC	0.00132	0.00309	0.428	0.66863	1.00132					
	NPP x pH	Intercept	0.19965	14.22291	0.014	0.9888	1.22098	52	69	88	112	0.04
		NPP_lim	-0.00436	0.01301	-0.335	0.73772	0.99565					
		pH	0.06649	2.2872	0.029	0.97681	1.06875					
		NPP_lim*pH	0.00062	0.00207	0.3	0.76416	1.00062					
	NPP x PR	Intercept	-6.22041	5.25784	-1.183	0.23678	0.00199	76	67	72	78	0.08
		NPP_lim	0.00425	0.00455	0.936	0.34951	1.00426					
		PR	1.73462	2.30742	0.752	0.4522	5.66679					
		NPP_lim*PR	-0.00091	0.00197	-0.465	0.64165	0.99909					
	SOM											
	LOC											
	pH											
	PR											

Table 19. Logistic regression models of the interactions between climate and soil manageable variables on the scores of the visual soil quality indicators for **alkaline soils**. Models with two explanatory variables and an interaction term (the product of the two variables). %CP percentage of correct predictions.

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	GCI x SOM	Intercept	-1.79533	1.13108	-1.587	0.11245	0.16607	70	54	87	95	0.05
		GCI	0.03394	0.0402	0.844	0.39859	1.03452					
		OM	0.47997	0.4466	1.075	0.2825	1.61603					
		GCI*OM	-0.00765	0.01803	-0.424	0.67132	0.99238					
	GCI x LOC	Intercept	-0.83731	0.8344	-1.003	0.31563	0.43287	86	30	106	122	0.08
		GCI	0.00706	0.0299	0.236	0.8133	1.00709					
		LOC	0.61601	0.55391	1.112	0.26609	1.85152					
		GCI*LOC	-0.00257	0.01536	-0.167	0.86701	0.99743					
	GCI x pH	Intercept	-8.06819	9.69274	-0.832	0.40519	0.00031	68	57	106	122	0.08
		GCI	0.61185	0.34215	1.788	0.07374	1.84383					
		pH	0.96249	1.24363	0.774	0.43897	2.61821					
		GCI*pH	-0.07597	0.04379	-1.735	0.08273	0.92684					
	GCI x PR	Intercept	-1.40832	1.5854	-0.888	0.37437	0.24455	64	57	76	81	0.05
		GCI	0.05793	0.03945	1.468	0.14198	1.05964					
		PR	0.526	0.72433	0.726	0.46772	1.69215					
		GCI*PR	-0.02215	0.0191	-1.16	0.24623	0.97809					
	AI x SOM	Intercept	-1.10615	0.85758	-1.29	0.1971	0.33083	71	44	86	95	0.04
		AI	0.48177	1.32983	0.362	0.71715	1.61893					
		OM	0.29178	0.31877	0.915	0.36002	1.3388					
		AI*OM	-0.0058	0.61859	-0.009	0.99252	0.99422					
	AI x LOC	Intercept	-1.02298	0.86136	-1.188	0.23498	0.35952	72	50	103	122	0.13
		AI	-0.12616	0.91428	-0.138	0.89025	0.88147					
		LOC	1.64569	0.87971	1.871	0.06138	5.18461					
		AI*LOC	-0.89875	0.75822	-1.185	0.23588	0.40708					
	AI x pH	Intercept	5.23872	7.17649	0.73	0.4654	188.4293	59	70	102	122	0.08
		AI	9.29481	10.62329	0.875	0.3816	10000+					
		pH	-0.59733	0.91431	-0.653	0.51355	0.55028					
		AI*pH	-1.33064	1.39176	-0.956	0.33903	0.26431					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	AI x PR	Intercept	2.10322	1.02866	2.045	0.04089	8.19248	58	71	76	81	0.06
		AI	-1.78244	1.31609	-1.354	0.17563	0.16823					
		PR	-0.62715	0.36431	-1.721	0.08516	0.53411					
		AI*PR	0.4463	0.47929	0.931	0.35177	1.56252					
	PET x SOM	Intercept	2.10637	1.47353	1.429	0.15287	8.21833	55	69	84	95	0.1
		PETmy	-0.0033	0.00147	-2.235	0.02542	0.99671					
		OM	-0.02832	0.56181	-0.05	0.9598	0.97208					
		PETmy*OM	0.00042	0.00043	0.977	0.32867	1.00042					
	PET x LOC	Intercept	-2.45505	1.22781	-2	0.04555	0.08586	80	48	99	122	0.12
		PETmy	0.00218	0.00137	1.588	0.11229	1.00218					
		LOC	1.9094	1.09144	1.749	0.08022	6.74906					
		PETmy*LOC	-0.00182	0.00136	-1.34	0.18027	0.99818					
	PET x pH	Intercept	27.45122	13.68351	2.006	0.04484	10000+	53	61	89	122	0.07
		PETmy	-0.01899	0.01298	-1.463	0.14339	0.98119					
		pH	-3.61765	1.81974	-1.988	0.04681	0.02685					
		PETmy*pH	0.00252	0.00172	1.465	0.14285	1.00252					
	PET x PR	Intercept	2.12948	2.78468	0.765	0.44444	8.41052	45	79	76	81	0.04
		PETmy	-0.0015	0.00313	-0.48	0.63126	0.9985					
		PR	-1.06394	1.16466	-0.914	0.36097	0.34509					
		PETmy*PR	0.00084	0.00128	0.654	0.51286	1.00084					
	PET	Intercept										
		LOC										
	LOC	pH										
	pH	PETmy										
	T x SOM	Intercept	1.89432	1.31438	1.441	0.14952	6.64801	57	79	84	95	0.15
		Tmy	-0.22672	0.09026	-2.512	0.01201	0.79714					
		OM	0.06014	0.56686	0.106	0.91551	1.06198					
		Tmy*OM	0.02395	0.03303	0.725	0.46835	1.02424					
	T x LOC	Intercept	-2.48993	1.36312	-1.827	0.06775	0.08292	91	33	99	122	0.18
		Tmy	0.14152	0.09105	1.554	0.12014	1.15202					
		LOC	3.38327	1.49639	2.261	0.02376	29.46698					
		Tmy*LOC	-0.20863	0.09374	-2.226	0.02603	0.8117					
	T x pH	Intercept	22.38398	12.41276	1.803	0.07134	10000+	76	46	91	122	0.09

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Tmy	-1.13189	0.82099	-1.379	0.16799	0.32242					
		pH	-2.83065	1.65104	-1.714	0.08644	0.05897					
		Tmy*pH	0.14073	0.10814	1.301	0.19311	1.15112					
	T x PR	Intercept	5.94337	1.87327	3.173	0.00151	381.2193	70	61	76	81	0.13
		Tmy	-0.41603	0.14938	-2.785	0.00535	0.65966					
		PR	-2.00534	0.74601	-2.688	0.00719	0.13461					
		Tmy*PR	0.14117	0.06143	2.298	0.02156	1.15162					
	T	Intercept										
	LOC	Tmy										
	pH	PR										
	PR	Tmy*PR										
	P x SOM	Intercept	-0.20762	1.13017	-0.184	0.85424	0.81251	63	46	86	95	0.05
		Pmy	-0.00112	0.00192	-0.584	0.55943	0.99888					
		OM	0.31883	0.38706	0.824	0.41009	1.37552					
		Pmy*OM	-0.00007	0.00061	-0.115	0.90807	0.99993					
	P x LOC	Intercept	-1.24568	0.99153	-1.256	0.209	0.28775	76	50	107	122	0.16
		Pmy	0.00042	0.00137	0.309	0.75751	1.00042					
		LOC	2.2473	0.9992	2.249	0.02451	9.46217					
		Pmy*LOC	-0.00214	0.00123	-1.739	0.08204	0.99786					
	P x pH	Intercept	14.97472	10.05309	1.49	0.13634	10000+	62	72	104	122	0.11
		Pmy	-0.0046	0.01732	-0.266	0.79032	0.99541					
		pH	-1.74179	1.27301	-1.368	0.17123	0.17521					
		Pmy*pH	0.00029	0.00223	0.128	0.89826	1.00029					
	P x PR	Intercept	2.65703	1.31157	2.026	0.04278	14.253836	57	71	76	81	0.06
		Pmy	-0.00325	0.00222	-1.465	0.14293	0.99676					
		PR	-0.76688	0.4766	-1.609	0.1076	0.46446					
		Pmy*PR	0.00081	0.00082	0.992	0.32141	1.00081					
	NPP x SOM	Intercept	0.03288	1.39063	0.024	0.98114	1.03342	61	54	86	95	0.05
		NPP_lim	-0.00097	0.00148	-0.65	0.51538	0.99903					
		OM	0.29261	0.47619	0.614	0.5389	1.33992					
		NPP_lim*OM	-0.00001	0.00047	-0.028	0.9774	0.99999					
	NPP x LOC	Intercept	-1.29966	1.27457	-1.02	0.30788	0.27262	75	48	103	122	0.16

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		NPP_lim	0.00032	0.00118	0.269	0.78806	1.00032					
		LOC	2.58221	1.21012	2.134	0.03286	13.22636					
		NPP_lim*LOC	-0.0017	0.00099	-1.708	0.08762	0.9983					
	NPP x pH	Intercept	24.25814	13.75806	1.763	0.07787	10000+	62	74	101	122	0.13
		NPP_lim	-0.01215	0.01463	-0.831	0.40612	0.98792					
		pH	-2.82835	1.72459	-1.64	0.101	0.05911					
		NPP_lim*pH	0.00126	0.00186	0.678	0.49754	1.00126					
	NPP x PR	Intercept	2.57879	1.706	1.512	0.13063	13.18124	60	71	76	81	0.06
		NPP_lim	-0.00192	0.00185	-1.04	0.29825	0.99808					
		PR	-0.64632	0.73085	-0.884	0.37651	0.52397					
		NPP_lim*PR	0.00035	0.00083	0.426	0.66997	1.00035					
POR	GCI x SOM	Intercept	-0.77284	1.21361	-0.637	0.52425	0.4617	74	56	87	95	0.09
		GCI	-0.02101	0.04434	-0.474	0.63559	0.97921					
		OM	0.04303	0.47897	0.09	0.92841	1.04397					
		GCI*OM	0.01557	0.01976	0.788	0.43074	1.01569					
	GCI x LOC	Intercept	-1.66494	0.90032	-1.849	0.06442	0.1892	69	39	104	122	0.08
		GCI	0.0372	0.03055	1.218	0.22332	1.03791					
		LOC	1.3844	0.66655	2.077	0.0378	3.99242					
		GCI*LOC	-0.02636	0.01677	-1.572	0.11593	0.97398					
	GCI x pH	Intercept	7.58268	9.80417	0.773	0.43928	1963.882	60	61	108	122	0.09
		GCI	0.15363	0.32665	0.47	0.63811	1.16606					
		pH	-1.01537	1.27084	-0.799	0.42431	0.36227					
		GCI*pH	-0.01854	0.04219	-0.439	0.66037	0.98163					
	GCI x PR	Intercept	1.14471	1.54228	0.742	0.45795	3.14153	51	58	76	81	0.01
		GCI	-0.02918	0.0386	-0.756	0.44962	0.97124					
		PR	-0.69168	0.71828	-0.963	0.33556	0.50073					
		GCI*PR	0.01892	0.01862	1.016	0.3096	1.0191					
	AI x SOM	Intercept	-2.11844	0.9765	-2.169	0.03005	0.12022	70	68	86	95	0.12

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		AI	1.05062	1.43575	0.732	0.46432	2.85943					
		OM	0.36942	0.34239	1.079	0.28061	1.44689					
		AI*OM	0.27064	0.66601	0.406	0.68448	1.3108					
	AI x LOC	Intercept	-1.0328	0.76166	-1.356	0.17511	0.35601	82	34	102	122	0.07
		AI	0.58813	0.75898	0.775	0.43841	1.80061					
		LOC	0.70453	0.77504	0.909	0.36334	2.0229					
		AI*LOC	-0.24861	0.67629	-0.368	0.71316	0.77988					
	AI x pH	Intercept	3.30798	7.26768	0.455	0.64899	27.3299	62	55	101	122	0.1
		AI	11.67827	9.8048	1.191	0.23362	10000+					
		pH	-0.45626	0.92868	-0.491	0.62321	0.63365					
		AI*pH	-1.48525	1.27903	-1.161	0.24555	0.22645					
	AI x PR	Intercept	0.51277	1.05804	0.485	0.62793	1.66991	75	35	76	81	0.05
		AI	-1.0599	1.39665	-0.759	0.44792	0.34649					
		PR	-0.43026	0.37934	-1.134	0.2567	0.65034					
		AI*PR	0.76151	0.55028	1.384	0.1664	2.14151					
	PET x SOM	Intercept	1.23295	1.66389	0.741	0.45869	3.43132	72	71	84	95	0.18
		PETmy	-0.0034	0.00172	-1.98	0.04775	0.9966					
		OM	0.75882	0.62703	1.21	0.22621	2.13576					
		PETmy*OM	0.00002	0.00048	0.034	0.97309	1.00002					
	PET x LOC	Intercept	-1.18318	1.03561	-1.142	0.25325	0.3063	91	23	98	122	0.08
		PETmy	0.00096	0.0012	0.801	0.42295	1.00096					
		LOC	1.22422	0.79869	1.533	0.12533	3.4015					
		PETmy*LOC	-0.00115	0.00111	-1.032	0.30202	0.99885					
	PET x pH	Intercept	21.25015	13.96717	1.521	0.12815	10000+	59	59	91	122	0.11
		PETmy	-0.00997	0.0135	-0.739	0.45998	0.99008					
		pH	-2.73198	1.85821	-1.47	0.1415	0.06509					
		PETmy*pH	0.00127	0.00179	0.711	0.47719	1.00127					
	PET x PR	Intercept	0.94522	3.00075	0.315	0.75276	2.57339	44	65	76	81	0.02
		PETmy	-0.00119	0.00344	-0.347	0.72827	0.99881					
		PR	0.26433	1.21266	0.218	0.82745	1.30256					
		PETmy*PR	-0.00025	0.00137	-0.185	0.85339	0.99975					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	T x SOM	Intercept	0.62833	1.38181	0.455	0.64932	1.87447	67	76	84	95	0.17
		Tmy	-0.17005	0.09588	-1.774	0.07613	0.84362					
		OM	0.49769	0.59375	0.838	0.40192	1.64491					
		Tmy*OM	0.00492	0.03462	0.142	0.88699	1.00493					
	T x LOC	Intercept	-0.34975	0.84924	-0.412	0.68046	0.70486	87	30	98	122	0.09
		Tmy	-0.0004	0.06445	-0.006	0.9951	0.9996					
		LOC	0.79249	0.45069	1.758	0.07868	2.20889					
		Tmy*LOC	-0.03989	0.03847	-1.037	0.29976	0.96089					
	T x pH	Intercept	14.52455	12.51487	1.161	0.24581	10000+	62	61	92	122	0.11
		Tmy	-0.28384	0.84016	-0.338	0.73549	0.75289					
		pH	-1.82715	1.66922	-1.095	0.27368	0.16087					
		Tmy*pH	0.03278	0.11109	0.295	0.76796	1.03332					
	T x PR	Intercept	2.17062	1.65626	1.311	0.19001	8.76374	55	65	76	81	0.03
		Tmy	-0.17973	0.1389	-1.294	0.19568	0.83549					
		PR	-0.53101	0.67466	-0.787	0.43124	0.58801					
		Tmy*PR	0.04565	0.05895	0.774	0.43871	1.04671					
	P x SOM	Intercept	-2.64273	1.22372	-2.16	0.0308	0.07117	77	50	86	95	0.1
		Pmy	0.00252	0.00189	1.333	0.18261	1.00252					
		OM	0.88123	0.41765	2.11	0.03486	2.41388					
		Pmy*OM	-0.00081	0.00063	-1.285	0.19883	0.99919					
	P x LOC	Intercept	-1.25626	0.75151	-1.672	0.09459	0.28472	81	34	105	122	0.07
		Pmy	0.00105	0.00109	0.964	0.33525	1.00105					
		LOC	0.95458	0.61436	1.554	0.12024	2.59757					
		Pmy*LOC	-0.00071	0.00081	-0.872	0.38322	0.99929					
	P x pH	Intercept	7.3415	9.53585	0.77	0.44137	1543.018	56	61	102	122	0.09
		Pmy	0.00847	0.01575	0.538	0.59063	1.00851					
		pH	-0.93063	1.21845	-0.764	0.445	0.3943					
		Pmy*pH	-0.00113	0.00204	-0.554	0.57948	0.99887					
	P x PR	Intercept	1.00133	1.34979	0.742	0.45818	2.72191	75	27	76	81	0.06
		Pmy	-0.00214	0.00232	-0.921	0.35716	0.99787					
		PR	-0.73998	0.51435	-1.439	0.15024	0.47712					
		Pmy*PR	0.00148	0.00094	1.573	0.11579	1.00148					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	NPP x SOM	Intercept	-2.95168	1.51433	-1.949	0.05128	0.05225	75	50	86	95	0.1
		NPP_lim	0.00189	0.0015	1.263	0.20676	1.00189					
		OM	0.986	0.51534	1.913	0.05571	2.68049					
		NPP_lim*OM	-0.00061	0.00049	-1.236	0.21647	0.99939					
	NPP x LOC	Intercept	-1.20794	1.02734	-1.176	0.23968	0.29881	85	27	102	122	0.07
		NPP_lim	0.00063	0.00101	0.624	0.5329	1.00063					
		LOC	1.05138	0.78459	1.34	0.18024	2.86159					
		NPP_lim*LOC	-0.00055	0.00071	-0.786	0.43178	0.99945					
	NPP x pH	Intercept	14.76634	12.87774	1.147	0.25152	10000+	60	64	99	122	0.09
		NPP_lim	-0.00196	0.01321	-0.148	0.88203	0.99804					
		pH	-1.82491	1.62637	-1.122	0.26183	0.16123					
		NPP_lim*pH	0.00017	0.00169	0.101	0.9199	1.00017					
	NPP x PR	Intercept	1.19757	1.72939	0.692	0.48864	3.31205	67	27	76	81	0.05
		NPP_lim	-0.00155	0.00187	-0.827	0.40825	0.99845					
		PR	-1.0899	0.74875	-1.456	0.1455	0.33625					
		NPP_lim*PR	0.00133	0.00086	1.549	0.12142	1.00133					
STA	GCI x SOM	Intercept	-3.34222	1.3271	-2.518	0.01179	0.03536	78	57	86	95	0.11
		GCI	0.08746	0.04713	1.856	0.06348	1.0914					
		OM	1.27563	0.52826	2.415	0.01574	3.58097					
		GCI*OM	-0.03783	0.02187	-1.73	0.08371	0.96288					
	GCI x LOC	Intercept	1.85024	0.8143	2.272	0.02307	6.36135	56	73	103	122	0.06
		GCI	-0.08	0.03277	-2.441	0.01464	0.92311					
		LOC	-0.53727	0.46196	-1.163	0.24482	0.58434					
		GCI*LOC	0.0253	0.01562	1.62	0.1052	1.02562					
	GCI x pH	Intercept	43.62715	12.82372	3.402	0.00067	10000+	72	80	107	122	0.13
		GCI	-1.37688	0.44174	-3.117	0.00183	0.25236					
		pH	-5.44949	1.62647	-3.351	0.00081	0.0043					
		GCI*pH	0.17018	0.05522	3.082	0.00206	1.18551					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	GCI x PR	Intercept	-2.93057	2.03181	-1.442	0.1492	0.05337	71	60	76	81	0.09
		GCI	0.09558	0.04776	2.001	0.04536	1.1003					
		PR	1.32808	0.93501	1.42	0.1555	3.77377					
		GCI*PR	-0.04506	0.02529	-1.782	0.07478	0.95594					
	GCI	Intercept										
	OM	GCI										
	pH	PR										
	PR	GCI*PR										
	AI x SOM	Intercept	-4.14369	1.17941	-3.513	0.00044	0.01586	75	68	84	95	0.18
		AI	4.12358	1.53693	2.683	0.0073	61.77993					
		OM	0.98674	0.36667	2.691	0.00712	2.68248					
		AI*OM	-0.87985	0.65826	-1.337	0.18134	0.41484					
	AI x LOC	Intercept	-0.82215	0.77944	-1.055	0.29151	0.43948	65	58	99	122	0.03
		AI	1.04171	0.78433	1.328	0.18413	2.83407					
		LOC	0.11667	0.79281	0.147	0.883	1.12375					
		AI*LOC	-0.07938	0.68942	-0.115	0.90833	0.92369					
	AI x pH	Intercept	21.66325	8.12109	2.668	0.00764	10000+	52	75	101	122	0.1
		AI	-21.8724	9.04805	-2.417	0.01563	0					
		pH	-2.86269	1.04636	-2.736	0.00622	0.05712					
		AI*pH	2.93383	1.17216	2.503	0.01232	18.79945					
	AI x PR	Intercept	-2.33042	1.55282	-1.501	0.13342	0.09726	76	60	76	81	0.15
		AI	3.6655	1.6144	2.271	0.02318	39.07576					
		PR	0.37437	0.49705	0.753	0.45133	1.45408					
		AI*PR	-0.83798	0.55596	-1.507	0.13175	0.43259					
	AI	Intercept										
	SOM	AI										
	pH	OM										
		AI*OM										
	PET x SOM	Intercept	2.93994	1.59148	1.847	0.0647	18.91466	76	57	83	95	0.14
		PETmy	-0.00401	0.00165	-2.433	0.01496	0.996					
		OM	-0.78737	0.60153	-1.309	0.19055	0.45504					
		PETmy*OM	0.00102	0.00047	2.201	0.02776	1.00102					
	PET x LOC	Intercept	-1.75109	0.97022	-1.805	0.0711	0.17359	65	45	95	122	0.03
		PETmy	0.00172	0.00112	1.537	0.12436	1.00173					
		LOC	0.60456	0.60532	0.999	0.31792	1.83044					
		PETmy*LOC	-0.00068	0.00097	-0.706	0.4802	0.99932					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	PET x pH	Intercept	-16.5133	13.45062	-1.228	0.21956	0	71	55	88	122	0.08
		PETmy	0.02436	0.01351	1.803	0.07141	1.02466					
		pH	2.08929	1.77897	1.174	0.24022	8.0792					
		PETmy*pH	-0.0031	0.00178	-1.736	0.08263	0.99691					
	PET x PR	Intercept	8.55854	4.54863	1.882	0.0599	5211.064	70	67	76	81	0.09
		PETmy	-0.00922	0.00553	-1.667	0.09546	0.99082					
		PR	-2.86239	1.83478	-1.56	0.11874	0.05713					
		PETmy*PR	0.00297	0.00212	1.397	0.16247	1.00297					
	PET											
	SOM											
	pH											
	T x SOM	Intercept	-0.36252	1.51828	-0.239	0.81128	0.69592	81	43	83	95	0.08
		Tmy	-0.04719	0.09771	-0.483	0.62909	0.9539					
		OM	0.07498	0.6228	0.12	0.90418	1.07786					
		Tmy*OM	0.01751	0.03573	0.49	0.62402	1.01767					
	T x LOC	Intercept	-2.25411	0.91336	-2.468	0.01359	0.10497	51	78	96	122	0.05
		Tmy	0.15411	0.06577	2.343	0.01912	1.16662					
		LOC	0.49603	0.27884	1.779	0.07525	1.64219					
		Tmy*LOC	-0.03532	0.03217	-1.098	0.27224	0.9653					
	T x pH	Intercept	19.677	15.09485	1.304	0.19238	10000+	67	65	90	122	0.1
		Tmy	-0.54836	0.94674	-0.579	0.56245	0.5779					
		pH	-2.82638	2.03262	-1.391	0.16438	0.05923					
		Tmy*pH	0.0907	0.12637	0.718	0.47292	1.09494					
	T x PR	Intercept	0.37796	1.93385	0.195	0.84504	1.45931	48	60	76	81	0.03
		Tmy	0.03586	0.14642	0.245	0.8065	1.03652					
		PR	-0.20013	0.83362	-0.24	0.81028	0.81863					
		Tmy*PR	-0.01093	0.0671	-0.163	0.87064	0.98913					
	P x SOM	Intercept	-3.95166	1.36154	-2.902	0.0037	0.01922	73	68	84	95	0.14
		Pmy	0.00471	0.002	2.359	0.01832	1.00472					
		OM	0.99406	0.42769	2.324	0.02011	2.70219					
		Pmy*OM	-0.001	0.00063	-1.583	0.11338	0.999					
	P x LOC	Intercept	-2.5452	0.79918	-3.185	0.00145	0.07846	67	58	102	122	0.1

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Pmy	0.00375	0.00119	3.167	0.00154	1.00376					
		LOC	0.90119	0.56821	1.586	0.11273	2.46254					
		Pmy*LOC	-0.00122	0.00082	-1.488	0.13688	0.99878					
	P x pH	Intercept	23.86497	10.75616	2.219	0.02651	10000+	57	83	102	122	0.13
		Pmy	-0.03134	0.01542	-2.033	0.04209	0.96915					
		pH	-3.25549	1.38726	-2.347	0.01894	0.03856					
		Pmy*pH	0.00433	0.00199	2.171	0.02992	1.00434					
	P x PR	Intercept	-2.95789	1.81094	-1.633	0.1024	0.05193	76	47	76	81	0.15
		Pmy	0.00584	0.00257	2.274	0.02298	1.00585					
		PR	0.54232	0.60718	0.893	0.37177	1.71999					
		Pmy*PR	-0.00136	0.00091	-1.492	0.13562	0.99864					
	P	Intercept										
	SOM	Pmy										
	LOC	OM										
	pH	Pmy*OM										
	NPP x SOM	Intercept	-4.66629	1.69077	-2.76	0.00578	0.00941	73	64	84	95	0.14
		NPP_lim	0.00371	0.0016	2.322	0.02022	1.00372					
		OM	1.10149	0.53025	2.077	0.03777	3.00864					
		NPP_lim*OM	-0.00074	0.0005	-1.474	0.14047	0.99926					
	NPP x LOC	Intercept	-4.24393	1.15254	-3.682	0.00023	0.01435	67	58	99	122	0.12
		NPP_lim	0.00413	0.00112	3.699	0.00022	1.00414					
		LOC	1.60706	0.77871	2.064	0.03904	4.98811					
		NPP_lim*LOC	-0.0015	0.00075	-1.99	0.04663	0.9985					
	NPP x pH	Intercept	25.80384	14.29606	1.805	0.07108	10000+	57	83	99	122	0.14
		NPP_lim	-0.02192	0.01342	-1.633	0.10241	0.97832					
		pH	-3.57096	1.82376	-1.958	0.05023	0.02813					
		NPP_lim*pH	0.00308	0.00172	1.794	0.0728	1.00308					
	NPP x PR	Intercept	-3.70906	2.32082	-1.598	0.11001	0.0245	76	40	76	81	0.13
		NPP_lim	0.00449	0.00221	2.034	0.04198	1.0045					
		PR	0.75899	0.8901	0.853	0.39382	2.13613					
		NPP_lim*PR	-0.00107	0.00093	-1.154	0.24852	0.99893					
	NPP	Intercept										
	SOM	NPP_lim										
	LOC	OM										
	pH	NPP_lim*OM										
PAN	GCI x SOM	Intercept	-0.69858	1.40811	-0.496	0.61982	0.49729	77	62	86	95	0.14

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		GCI	-0.01313	0.0533	-0.246	0.8055	0.98696					
		OM	0.63281	0.52089	1.215	0.22442	1.88289					
		GCI*OM	-0.01023	0.02155	-0.475	0.635	0.98982					
	GCI x LOC	Intercept	-0.13691	0.80091	-0.171	0.86427	0.87205	56	62	102	122	0.06
		GCI	-0.00738	0.0303	-0.244	0.80761	0.99265					
		LOC	0.80708	0.54363	1.485	0.13765	2.24136					
		GCI*LOC	-0.01721	0.01759	-0.979	0.32782	0.98294					
	GCI x pH	Intercept	7.39921	11.44418	0.647	0.51792	1634.694	64	73	107	122	0.19
		GCI	0.40841	0.43202	0.945	0.34449	1.50442					
		pH	-0.86819	1.48993	-0.583	0.56009	0.41971					
		GCI*pH	-0.05629	0.05644	-0.997	0.3186	0.94527					
	GCI x PR	Intercept	2.15879	1.63051	1.324	0.1855	8.66065	61	80	76	81	0.08
		GCI	-0.03345	0.04292	-0.779	0.43574	0.9671					
		PR	-0.40209	0.7557	-0.532	0.59467	0.66892					
		GCI*PR	-0.00103	0.02088	-0.049	0.96076	0.99897					
	AI x SOM	Intercept	-1.87734	1.00703	-1.864	0.06229	0.153	82	48	84	95	0.12
		AI	0.88961	1.52994	0.581	0.56093	2.43418					
		OM	0.61981	0.35334	1.754	0.0794	1.85858					
		AI*OM	-0.32599	0.67708	-0.481	0.63019	0.72181					
	AI x LOC	Intercept	-1.12843	0.74381	-1.517	0.12924	0.32354	71	33	99	122	0.03
		AI	0.81335	0.74566	1.091	0.27537	2.25546					
		LOC	1.11619	0.76218	1.464	0.14306	3.05321					
		AI*LOC	-0.80747	0.66259	-1.219	0.22297	0.44598					
	AI x pH	Intercept	4.99005	8.68053	0.575	0.56539	146.9444	73	62	98	122	0.21
		AI	27.5486	15.77374	1.746	0.08073	10000+					
		pH	-0.58209	1.12288	-0.518	0.60419	0.55873					
		AI*pH	-3.7151	2.09421	-1.774	0.07607	0.02435					
	AI x PR	Intercept	1.58807	1.0287	1.544	0.12264	4.8943	55	80	76	81	0.06
		AI	-0.87059	1.23183	-0.707	0.47973	0.4187					
		PR	-0.72326	0.37658	-1.921	0.05478	0.48517					
		AI*PR	0.48795	0.4438	1.099	0.27156	1.62897					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	PET x SOM	Intercept	0.80022	1.65772	0.483	0.62929	2.22603	82	55	82	95	0.13
		PETmy	-0.0022	0.00163	-1.352	0.17633	0.9978					
		OM	-0.04905	0.60567	-0.081	0.93545	0.95213					
		PETmy*OM	0.00047	0.00047	1.014	0.31078	1.00047					
	PET x LOC	Intercept	-1.69595	0.97586	-1.738	0.08223	0.18342	65	49	95	122	0.05
		PETmy	0.0021	0.0012	1.755	0.0792	1.0021					
		LOC	1.5056	0.71872	2.095	0.03619	4.50688					
		PETmy*LOC	-0.00208	0.00114	-1.818	0.06912	0.99793					
	PET x pH	Intercept	41.53888	17.15788	2.421	0.01548	10000+	61	73	89	122	0.23
		PETmy	-0.0225	0.01578	-1.426	0.15387	0.97775					
		pH	-5.5257	2.29464	-2.408	0.01604	0.00398					
		PETmy*pH	0.00305	0.0021	1.449	0.14722	1.00305					
	PET x PR	Intercept	1.37827	2.81522	0.49	0.62443	3.96801	55	76	76	81	0.07
		PETmy	-0.00049	0.00318	-0.155	0.87693	0.99951					
		PR	0.12403	1.18946	0.104	0.91695	1.13205					
		PETmy*PR	-0.00056	0.00133	-0.419	0.67497	0.99944					
	T x SOM	Intercept	1.50283	1.38175	1.088	0.27676	4.49437	68	72	82	95	0.15
		Tmy	-0.20823	0.09713	-2.144	0.03206	0.81202					
		OM	-0.40977	0.58853	-0.696	0.48627	0.66381					
		Tmy*OM	0.05724	0.03484	1.643	0.10035	1.05891					
	T x LOC	Intercept	-0.74899	0.80832	-0.927	0.35414	0.47285	66	36	95	122	0.06
		Tmy	0.0801	0.07008	1.143	0.25307	1.0834					
		LOC	0.84322	0.37636	2.24	0.02506	2.32384					
		Tmy*LOC	-0.09748	0.05334	-1.828	0.06762	0.90712					
	T x pH	Intercept	42.06617	16.97504	2.478	0.01321	10000+	66	73	89	122	0.22
		Tmy	-1.53131	1.0615	-1.443	0.14914	0.21625					
		pH	-5.60376	2.28058	-2.457	0.014	0.00368					
		Tmy*pH	0.20808	0.14163	1.469	0.14178	1.23131					
	T x PR	Intercept	4.94098	1.82133	2.713	0.00667	139.9078	80	64	76	81	0.11
		Tmy	-0.31292	0.1431	-2.187	0.02876	0.73131					
		PR	-1.57395	0.75926	-2.073	0.03817	0.20723					
		Tmy*PR	0.09586	0.06163	1.556	0.11982	1.10061					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	P x SOM	Intercept	-0.26467	1.36677	-0.194	0.84646	0.76746	73	55	84	95	0.13
		Pmy	-0.00221	0.00248	-0.888	0.37438	0.9978					
		OM	0.34577	0.42089	0.822	0.41135	1.41308					
		Pmy*OM	0.00022	0.00069	0.328	0.74272	1.00022					
	P x LOC	Intercept	-1.97282	0.89716	-2.199	0.02788	0.13906	60	42	102	122	0.06
		Pmy	0.00258	0.00135	1.907	0.05654	1.00258					
		LOC	2.15202	0.92416	2.329	0.01988	8.60224					
		Pmy*LOC	-0.00292	0.00141	-2.074	0.03806	0.99709					
	P x pH	Intercept	6.70454	11.40082	0.588	0.55648	816.1032	71	62	100	122	0.21
		Pmy	0.02796	0.02196	1.273	0.20287	1.02836					
		pH	-0.74497	1.47114	-0.506	0.61258	0.47475					
		Pmy*pH	-0.00386	0.00289	-1.335	0.18174	0.99615					
	P x PR	Intercept	2.05817	1.2738	1.616	0.10614	7.83165	52	80	76	81	0.06
		Pmy	-0.00187	0.00204	-0.916	0.35975	0.99813					
		PR	-0.87314	0.47021	-1.857	0.06332	0.41764					
		Pmy*PR	0.00086	0.00074	1.156	0.24765	1.00086					
	NPP x SOM	Intercept	0.07037	1.66811	0.042	0.96635	1.07291	73	55	84	95	0.13
		NPP_lim	-0.00174	0.00187	-0.927	0.35382	0.99826					
		OM	0.29276	0.51898	0.564	0.57269	1.34012					
		NPP_lim*OM	0.0002	0.00053	0.373	0.70885	1.0002					
	NPP x LOC	Intercept	-2.25366	1.18359	-1.904	0.0569	0.10501	62	42	99	122	0.05
		NPP_lim	0.00199	0.00119	1.677	0.09358	1.00199					
		LOC	2.27333	1.10183	2.063	0.03909	9.71173					
		NPP_lim*LOC	-0.00203	0.0011	-1.846	0.0649	0.99797					
	NPP x pH	Intercept	4.05042	14.75791	0.274	0.78373	57.42149	69	67	97	122	0.22
		NPP_lim	0.0212	0.01721	1.232	0.21793	1.02143					
		pH	-0.34324	1.88655	-0.182	0.85563	0.70947					
		NPP_lim*pH	-0.00296	0.00224	-1.319	0.1871	0.99704					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	NPP x PR	Intercept	2.30634	1.63894	1.407	0.15936	10.03767	54	80	76	81	0.06
		NPP_lim	-0.00146	0.00172	-0.853	0.39341	0.99854					
		PR	-1.06981	0.68791	-1.555	0.11991	0.34308					
		NPP_lim*PR	0.00077	0.00074	1.043	0.29673	1.00077					
COL	GCI x SOM	Intercept	-2.61517	1.4073	-1.858	0.06313	0.07316	88	54	89	95	0.16
		GCI	0.04442	0.04966	0.895	0.37099	1.04543					
		OM	1.07161	0.53113	2.018	0.04363	2.92007					
		GCI*OM	-0.02373	0.02158	-1.1	0.27147	0.97655					
	GCI x LOC	Intercept	-0.95225	0.86326	-1.103	0.26999	0.38587	86	37	106	122	0.06
		GCI	0.0222	0.03236	0.686	0.49272	1.02244					
		LOC	1.09865	0.56847	1.933	0.05328	3.00012					
		GCI*LOC	-0.02703	0.01893	-1.428	0.15327	0.97333					
	GCI x pH	Intercept	19.45902	12.55089	1.55	0.12104	10000+	63	71	106	122	0.15
		GCI	-0.04115	0.42198	-0.098	0.92232	0.95969					
		pH	-2.50312	1.64274	-1.524	0.12757	0.08183					
		GCI*pH	0.00428	0.05506	0.078	0.93798	1.00429					
	GCI x PR	Intercept	0.00976	1.75106	0.006	0.99555	1.0098	34	75	76	81	0.01
		GCI	0.01163	0.04332	0.268	0.78832	1.0117					
		PR	0.12784	0.82355	0.155	0.87664	1.13637					
		GCI*PR	-0.00865	0.02182	-0.396	0.69176	0.99139					
	AI x SOM	Intercept	-3.49026	1.20041	-2.908	0.00364	0.03049	70	65	87	95	0.2
		AI	2.35665	1.58685	1.485	0.13751	10.55552					
		OM	0.79015	0.37327	2.117	0.03428	2.20372					
		AI*OM	-0.23982	0.68111	-0.352	0.72476	0.78677					
	AI x LOC	Intercept	-1.66805	0.79288	-2.104	0.0354	0.18862	66	46	102	122	0.06
		AI	1.54371	0.78266	1.972	0.04856	4.68194					
		LOC	1.05559	0.77416	1.364	0.17271	2.87367					
		AI*LOC	-0.75484	0.67204	-1.123	0.26135	0.47008					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	AI x pH	Intercept	6.01714	9.17135	0.656	0.51177	410.4045	66	66	100	122	0.18
		AI	17.32418	13.53265	1.28	0.20048	10000+					
		pH	-0.83068	1.18905	-0.699	0.4848	0.43575					
		AI*pH	-2.21428	1.78833	-1.238	0.21565	0.10923					
	AI x PR	Intercept	2.02115	1.34572	1.502	0.13312	7.54701	69	75	76	81	0.2
		AI	-2.55735	1.81601	-1.408	0.15906	0.07751					
		PR	-1.36099	0.5911	-2.302	0.02131	0.25641					
		AI*PR	1.79054	0.84084	2.129	0.03322	5.99271					
	AI											
	SOM											
	LOC											
	PET x SOM	Intercept	4.65442	1.93211	2.409	0.016	105.0487	75	85	85	95	0.27
		PETmy	-0.00721	0.00233	-3.1	0.00193	0.99281					
		OM	-0.66901	0.61753	-1.083	0.27864	0.51221					
		PETmy*OM	0.00134	0.00054	2.469	0.01357	1.00134					
	PET x LOC	Intercept	-1.53879	1.01399	-1.518	0.12912	0.21464	71	43	97	122	0.04
		PETmy	0.00155	0.00119	1.302	0.19285	1.00155					
		LOC	1.03718	0.66799	1.553	0.1205	2.82125					
		PETmy*LOC	-0.00121	0.00107	-1.127	0.25968	0.99879					
	PET x pH	Intercept	54.05776	19.94215	2.711	0.00671	10000+	64	83	86	122	0.2
		PETmy	-0.0335	0.01783	-1.879	0.06024	0.96705					
		pH	-7.24752	2.68662	-2.698	0.00698	0.00071					
		PETmy*pH	0.00455	0.00239	1.903	0.05706	1.00456					
	PET x PR	Intercept	-2.23348	3.34188	-0.668	0.50392	0.10715	62	75	76	81	0.18
		PETmy	0.00282	0.00382	0.737	0.461	1.00282					
		PR	2.97542	1.49395	1.992	0.04641	19.59786					
		PETmy*PR	-0.00361	0.00172	-2.102	0.03552	0.9964					
	T x SOM	Intercept	3.83595	1.47295	2.604	0.00921	46.33745	72	88	85	95	0.32
		Tmy	-0.48094	0.1347	-3.571	0.00036	0.6182					
		OM	-0.73005	0.58623	-1.245	0.21301	0.48189					
		Tmy*OM	0.10227	0.03837	2.665	0.00769	1.10768					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	T x LOC	Intercept	-0.50425	0.84826	-0.594	0.55221	0.60396	93	20	97	122	0.06
		Tmy	0.05019	0.07251	0.692	0.48887	1.05147					
		LOC	0.74213	0.36232	2.048	0.04053	2.10041					
		Tmy*LOC	-0.07844	0.05227	-1.501	0.13346	0.92455					
	T x pH	Intercept	33.06293	16.77356	1.971	0.04871	10000+	63	71	88	122	0.18
		Tmy	-0.98009	1.077	-0.91	0.36281	0.37528					
		pH	-4.38078	2.26311	-1.936	0.0529	0.01252					
		Tmy*pH	0.13235	0.14427	0.917	0.35892	1.14151					
	T x PR	Intercept	2.69341	2.02069	1.333	0.18256	14.782	69	81	76	81	0.12
		Tmy	-0.17437	0.17844	-0.977	0.3285	0.83999					
		PR	-0.06608	0.97177	-0.068	0.94579	0.93606					
		Tmy*PR	-0.01757	0.08885	-0.198	0.84327	0.98259					
	P x SOM	Intercept	-2.05363	1.38356	-1.484	0.13773	0.12827	80	54	87	95	0.16
		Pmy	0.00081	0.00218	0.372	0.70956	1.00081					
		OM	0.52515	0.44145	1.19	0.23421	1.69071					
		Pmy*OM	-0.00001	0.00069	-0.009	0.99314	0.99999					
	P x LOC	Intercept	-2.71139	0.87475	-3.1	0.00194	0.06644	71	49	105	122	0.09
		Pmy	0.0036	0.00127	2.834	0.00459	1.00361					
		LOC	1.81128	0.76476	2.368	0.01786	6.11825					
		Pmy*LOC	-0.00232	0.00114	-2.035	0.04188	0.99768					
	P x pH	Intercept	15.47417	11.97756	1.292	0.19638	10000+	62	71	100	122	0.16
		Pmy	0.00386	0.01883	0.205	0.83777	1.00386					
		pH	-2.06505	1.55497	-1.328	0.18417	0.12681					
		Pmy*pH	-0.00043	0.00246	-0.173	0.86236	0.99957					
	P x PR	Intercept	2.32897	1.5208	1.531	0.12567	10.267344	69	69	76	81	0.15
		Pmy	-0.00341	0.00256	-1.331	0.18307	0.9966					
		PR	-1.39561	0.59943	-2.328	0.0199	0.24768					
		Pmy*PR	0.00215	0.001	2.141	0.03227	1.00215					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	NPP x SOM	Intercept	-2.37747	1.72429	-1.379	0.16795	0.09279	81	54	87	95	0.16
		NPP_lim	0.00085	0.00173	0.494	0.6211	1.00085					
		OM	0.59359	0.54882	1.082	0.27944	1.81048					
		NPP_lim*OM	-0.00008	0.00054	-0.142	0.88739	0.99992					
	NPP x LOC	Intercept	-3.21842	1.24174	-2.592	0.00955	0.04002	70	54	102	122	0.08
		NPP_lim	0.00289	0.00122	2.371	0.01776	1.00289					
		LOC	2.30747	1.06185	2.173	0.02978	10.04893					
		NPP_lim*LOC	-0.00202	0.00106	-1.912	0.05582	0.99798					
	NPP x pH	Intercept	23.23037	15.6487	1.484	0.13768	10000+	60	69	98	122	0.16
		NPP_lim	-0.00479	0.01573	-0.305	0.76067	0.99522					
		pH	-2.99479	2.00968	-1.49	0.13618	0.05005					
		NPP_lim*pH	0.0006	0.00203	0.294	0.76878	1.0006					
	NPP x PR	Intercept	3.40147	1.91639	1.775	0.07591	30.008009	66	75	76	81	0.11
		NPP_lim	-0.00338	0.0021	-1.613	0.10681	0.99662					
		PR	-2.06284	0.84042	-2.455	0.01411	0.12709					
		NPP_lim*PR	0.00215	0.00093	2.322	0.02023	1.00215					
EAR	GCI x SOM	Intercept	3.53679	1.42237	2.487	0.0129	34.356488	77	50	87	95	0.12
		GCI	-0.16081	0.05749	-2.797	0.00515	0.85145					
		OM	-1.19908	0.57354	-2.091	0.03656	0.30147					
		GCI*OM	0.05893	0.02494	2.363	0.01812	1.0607					
	GCI x LOC	Intercept	0.01594	1.00826	0.016	0.98739	1.01607	91	32	102	122	0.13
		GCI	0.02581	0.03633	0.71	0.47751	1.02614					
		LOC	0.48128	0.9551	0.504	0.61433	1.61815					
		GCI*LOC	-0.03825	0.03172	-1.206	0.22787	0.96247					
	GCI x pH	Intercept	-10.0889	9.03368	-1.117	0.26407	0.00004	45	65	104	122	0.06
		GCI	0.18303	0.29863	0.613	0.53995	1.20085					
		pH	1.42874	1.16142	1.23	0.21863	4.17344					
		GCI*pH	-0.02813	0.03814	-0.738	0.46081	0.97226					
	GCI x PR	Intercept	2.36321	2.13026	1.109	0.26728	10.625	70	62	76	81	0.24
		GCI	-0.12762	0.06562	-1.945	0.0518	0.88019					
		PR	-0.09615	0.85116	-0.113	0.91006	0.90833					
		GCI*PR	0.02248	0.02428	0.926	0.35462	1.02273					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	AI x SOM	Intercept	3.08999	1.08675	2.843	0.00446	21.97696	94	48	85	95	0.21
		AI	-6.4166	2.09922	-3.057	0.00224	0.00163					
		OM	-0.51342	0.36975	-1.389	0.16497	0.59845					
		AI*OM	1.28252	0.77708	1.65	0.09886	3.6057					
	AI x LOC	Intercept	2.35563	0.90583	2.601	0.00931	10.54479	75	54	99	122	0.16
		AI	-1.8012	0.9466	-1.903	0.05706	0.1651					
		LOC	-1.59636	0.95361	-1.674	0.09413	0.20263					
		AI*LOC	0.7052	0.90203	0.782	0.43433	2.02426					
	AI x pH	Intercept	-10.3388	7.19223	-1.437	0.15058	0.00003	62	60	99	122	0.1
		AI	13.95471	9.34358	1.494	0.1353	10000+					
		pH	1.44897	0.91423	1.585	0.11299	4.25873					
		AI*pH	-1.987	1.20982	-1.642	0.10051	0.13711					
	AI x PR	Intercept	-0.6788	1.10161	-0.616	0.53777	0.50722	68	71	76	81	0.2
		AI	-1.28644	1.40933	-0.913	0.36135	0.27625					
		PR	0.68422	0.4092	1.672	0.09451	1.98222					
		AI*PR	-0.07236	0.51086	-0.142	0.88736	0.9302					
	PET x SOM	Intercept	-4.82736	1.69307	-2.851	0.00435	0.00801	74	54	83	95	0.09
		PETmy	0.00392	0.00148	2.652	0.00801	1.00393					
		OM	1.46038	0.64826	2.253	0.02427	4.30761					
		PETmy*OM	-0.00104	0.00047	-2.205	0.02746	0.99896					
	PET x LOC	Intercept	-1.50215	1.14686	-1.31	0.19027	0.22265	77	44	95	122	0.16
		PETmy	0.00328	0.00151	2.175	0.02963	1.00328					
		LOC	1.33692	0.96816	1.381	0.16731	3.80729					
		PETmy*LOC	-0.00321	0.00151	-2.128	0.03332	0.99679					
	PET x pH	Intercept	3.92512	11.98822	0.327	0.74335	50.6591	55	61	90	122	0.04
		PETmy	-0.00754	0.01182	-0.638	0.52336	0.99249					
		pH	-0.6478	1.58426	-0.409	0.68261	0.5232					
		PETmy*pH	0.00111	0.00156	0.712	0.47646	1.00111					
	PET x PR	Intercept	-0.66715	2.9506	-0.226	0.82112	0.51317	64	79	76	81	0.18

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PETmy	-0.00107	0.00333	-0.322	0.74779	0.99893					
		PR	-0.89288	1.24473	-0.717	0.47317	0.40947					
		PETmy*PR	0.00172	0.0014	1.227	0.21991	1.00172					
	T x SOM	Intercept	-3.82505	1.6414	-2.33	0.01979	0.02182	70	48	83	95	0.07
		Tmy	0.20509	0.09918	2.068	0.03865	1.22763					
		OM	1.42997	0.69102	2.069	0.03851	4.17859					
		Tmy*OM	-0.07265	0.03885	-1.87	0.06148	0.92992					
	T x LOC	Intercept	0.19694	0.89581	0.22	0.82599	1.21767	83	42	96	122	0.14
		Tmy	0.08184	0.08134	1.006	0.31434	1.08528					
		LOC	-0.1707	0.5659	-0.302	0.76293	0.84308					
		Tmy*LOC	-0.08507	0.07034	-1.209	0.22652	0.91845					
	T x pH	Intercept	-31.1905	12.42642	-2.51	0.01207	0	57	51	91	122	0.06
		Tmy	1.90119	0.80505	2.362	0.0182	6.69388					
		pH	4.08783	1.65083	2.476	0.01328	59.61065					
		Tmy*pH	-0.24811	0.10595	-2.342	0.0192	0.78027					
	T x PR	Intercept	-0.19483	1.73972	-0.112	0.91083	0.82297	60	74	76	81	0.15
		Tmy	-0.13344	0.14009	-0.953	0.34082	0.87508					
		PR	-0.37115	0.75316	-0.493	0.62216	0.68994					
		Tmy*PR	0.09069	0.06433	1.41	0.15859	1.09493					
	P x SOM	Intercept	5.39023	1.87003	2.882	0.00395	219.253	74	60	85	95	0.22
		Pmy	-0.01221	0.0038	-3.209	0.00133	0.98787					
		OM	-0.74095	0.47493	-1.56	0.11873	0.47666					
		Pmy*OM	0.00191	0.00085	2.251	0.0244	1.00191					
	P x LOC	Intercept	1.83122	1.02325	1.79	0.07352	6.24147	78	54	102	122	0.16
		Pmy	-0.0014	0.00151	-0.925	0.35478	0.99861					
		LOC	-0.62888	1.08884	-0.578	0.56356	0.53319					
		Pmy*LOC	-0.00047	0.00165	-0.287	0.77426	0.99953					
	P x pH	Intercept	-22.0456	9.49315	-2.322	0.02022	0	54	68	100	122	0.1
		Pmy	0.03566	0.01548	2.303	0.02125	1.03631					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		pH	2.95975	1.21267	2.441	0.01466	19.29311					
		Pmy*pH	-0.00482	0.00201	-2.405	0.01616	0.99519					
	P x PR	Intercept	-0.35432	1.3891	-0.255	0.79867	0.70165	68	71	76	81	0.2
		Pmy	-0.00231	0.00236	-0.977	0.32844	0.99769					
		PR	0.69239	0.51465	1.345	0.17851	1.99848					
		Pmy*PR	-0.00007	0.00085	-0.079	0.93719	0.99993					
	NPP x SOM	Intercept	6.16397	2.12831	2.896	0.00378	475.3137	66	63	85	95	0.21
		NPP_lim	-0.00818	0.00255	-3.21	0.00133	0.99185					
		OM	-0.88252	0.56809	-1.553	0.12031	0.41374					
		NPP_lim*OM	0.0013	0.00061	2.127	0.03344	1.0013					
	NPP x LOC	Intercept	1.97573	1.36711	1.445	0.14841	7.21187	74	54	99	122	0.15
		NPP_lim	-0.00108	0.00133	-0.81	0.41771	0.99892					
		LOC	-0.52841	1.37471	-0.384	0.7007	0.58954					
		NPP_lim*LOC	-0.00037	0.00134	-0.277	0.78163	0.99963					
	NPP x pH	Intercept	-30.8983	12.87123	-2.401	0.01637	0	51	77	97	122	0.1
		NPP_lim	0.03107	0.01314	2.366	0.01799	1.03156					
		pH	4.08167	1.62595	2.51	0.01206	59.24429					
		NPP_lim*pH	-0.00413	0.00168	-2.465	0.0137	0.99588					
	NPP x PR	Intercept	-0.90908	1.78793	-0.508	0.61113	0.40289	68	74	76	81	0.19
		NPP_lim	-0.00075	0.00194	-0.386	0.69969	0.99925					
		PR	1.21482	0.77348	1.571	0.11628	3.36968					
		NPP_lim*PR	-0.00068	0.00085	-0.804	0.42165	0.99932					
	NPP											
	SOM											
	pH											
ERO	GCI x SOM	Intercept	-2.75345	1.44334	-1.908	0.05643	0.06371	75	52	86	95	0.09
		GCI	0.11181	0.05768	1.938	0.05258	1.1183					
		OM	0.48251	0.5048	0.956	0.33915	1.62014					
		GCI*OM	-0.02309	0.02134	-1.082	0.27924	0.97717					
	GCI x LOC	Intercept	0.81865	1.8856	0.434	0.66417	2.26744	89	32	106	122	0.07
		GCI	-0.04572	0.06945	-0.658	0.51032	0.95531					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		LOC	-1.72324	2.32782	-0.74	0.45913	0.17849					
		GCI*LOC	0.07653	0.08569	0.893	0.37183	1.07953					
	GCI x pH	Intercept	10.28341	9.23869	1.113	0.26567	10000+	55	68	105	122	0.04
		GCI	-0.30651	0.33272	-0.921	0.35693	0.73601					
		pH	-1.42903	1.18209	-1.209	0.2267	0.23954					
		GCI*pH	0.04334	0.04254	1.019	0.30836	1.04429					
	GCI x PR	Intercept	-2.47759	2.46736	-1.004	0.31531	0.08395	76	61	76	81	0.16
		GCI	0.13618	0.08429	1.616	0.10617	1.14589					
		PR	-0.04475	0.8916	-0.05	0.95997	0.95624					
		GCI*PR	-0.01554	0.02622	-0.593	0.55328	0.98458					
	AI x SOM	Intercept	-1.29485	0.99243	-1.305	0.19198	0.27394	66	71	84	95	0.14
		AI	2.56509	1.93831	1.323	0.18572	13.00179					
		OM	-0.21075	0.38471	-0.548	0.58383	0.80998					
		AI*OM	0.44687	0.83942	0.532	0.59448	1.56342					
	AI x LOC	Intercept	-1.34154	1.24775	-1.075	0.2823	0.26144	84	58	102	122	0.15
		AI	1.34062	1.89193	0.709	0.47857	3.82141					
		LOC	-0.19268	1.45083	-0.133	0.89435	0.82475					
		AI*LOC	1.236	2.35499	0.525	0.59969	3.44182					
	AI x pH	Intercept	-11.4327	8.1229	-1.407	0.15929	0.00001	74	60	102	122	0.15
		AI	11.06589	12.68622	0.872	0.38306	10000+					
		pH	1.22558	1.01697	1.205	0.22815	3.40615					
		AI*pH	-1.03953	1.6275	-0.639	0.523	0.35362					
	AI x PR	Intercept	0.0465	1.28607	0.036	0.97116	1.0476	72	61	76	81	0.12
		AI	1.32578	2.07016	0.64	0.5219	3.7651					
		PR	-0.44111	0.51629	-0.854	0.39289	0.64332					
		AI*PR	0.22894	0.89332	0.256	0.79773	1.25727					
	AI											
	SOM											
	LOC											
	pH											
	PET x SOM	Intercept	3.98515	1.81698	2.193	0.02829	53.79362	66	56	82	95	0.07
		PETmy	-0.00362	0.00156	-2.32	0.02036	0.99638					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		OM	-0.765	0.65736	-1.164	0.24452	0.46533					
		PETmy*OM	0.00063	0.00048	1.298	0.19444	1.00063					
	PET x LOC	Intercept	-0.10986	1.5323	-0.072	0.94284	0.89596	71	52	96	122	0.09
		PETmy	-0.00025	0.00165	-0.15	0.88083	0.99975					
		LOC	1.8614	1.712	1.087	0.27692	6.43271					
		PETmy*LOC	-0.00144	0.00183	-0.788	0.4308	0.99856					
	PET x pH	Intercept	3.04583	13.6617	0.223	0.82358	21.02738	55	64	89	122	0.06
		PETmy	-0.00195	0.01276	-0.153	0.87861	0.99805					
		pH	-0.16826	1.7965	-0.094	0.92538	0.84513					
		PETmy*pH	0.00004	0.00168	0.021	0.9831	1.00004					
	PET x PR	Intercept	1.39692	3.31282	0.422	0.67327	4.04274	60	68	76	81	0.07
		PETmy	-0.00037	0.00368	-0.099	0.92097	0.99963					
		PR	0.17223	1.28794	0.134	0.89362	1.18795					
		PETmy*PR	-0.00059	0.00143	-0.416	0.67709	0.99941					
	T x SOM	Intercept	1.88095	1.64899	1.141	0.25401	6.55974	72	48	82	95	0.05
		Tmy	-0.11988	0.10029	-1.195	0.23194	0.88702					
		OM	-0.12533	0.67514	-0.186	0.85273	0.8822					
		Tmy*OM	0.00511	0.03804	0.134	0.89322	1.00512					
	T x LOC	Intercept	0.60157	1.07864	0.558	0.57704	1.82497	66	57	97	122	0.08
		Tmy	-0.08695	0.07793	-1.116	0.26453	0.91672					
		LOC	0.74121	1.02795	0.721	0.47087	2.09848					
		Tmy*LOC	-0.00672	0.07126	-0.094	0.92491	0.99331					
	T x pH	Intercept	8.67135	13.13796	0.66	0.50924	5833.376	66	49	91	122	0.05
		Tmy	-0.66914	0.84833	-0.789	0.43024	0.51215					
		pH	-0.95268	1.73205	-0.55	0.5823	0.3857					
		Tmy*pH	0.07401	0.1111	0.666	0.50532	1.07682					
	T x PR	Intercept	1.92229	2.04771	0.939	0.34786	6.83661	64	68	76	81	0.09
		Tmy	-0.04238	0.156	-0.272	0.78585	0.9585					
		PR	-0.0984	0.72039	-0.137	0.89135	0.90628					
		Tmy*PR	-0.0311	0.06045	-0.514	0.60696	0.96938					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	P x SOM	Intercept	-2.50246	1.45794	-1.716	0.08608	0.08188	69	51	84	95	0.11
		Pmy	0.00613	0.00294	2.083	0.03725	1.00615					
		OM	0.09719	0.43271	0.225	0.82228	1.10207					
		Pmy*OM	-0.00055	0.00074	-0.741	0.45877	0.99945					
	P x LOC	Intercept	-1.61111	1.31114	-1.229	0.21915	0.19967	76	51	106	122	0.13
		Pmy	0.0018	0.00224	0.807	0.41982	1.00181					
		LOC	-0.13213	1.48563	-0.089	0.92913	0.87623					
		Pmy*LOC	0.00121	0.00258	0.469	0.639	1.00121					
	P x pH	Intercept	-13.5995	12.12152	-1.122	0.26189	0	79	44	103	122	0.1
		Pmy	0.01903	0.02124	0.896	0.37016	1.01921					
		pH	1.46677	1.50348	0.976	0.32927	4.33523					
		Pmy*pH	-0.00197	0.00266	-0.74	0.45908	0.99803					
	P x PR	Intercept	0.40126	2.07097	0.194	0.84637	1.49371	72	63	76	81	0.14
		Pmy	0.00107	0.00409	0.263	0.79272	1.00107					
		PR	-0.9964	1.0204	-0.976	0.32883	0.36921					
		Pmy*PR	0.00137	0.0021	0.651	0.51492	1.00137					
	NPP x SOM	Intercept	-2.79823	1.68328	-1.662	0.09644	0.06092	69	59	84	95	0.1
		NPP_lim	0.00403	0.00201	2.008	0.04462	1.00404					
		OM	0.08412	0.5151	0.163	0.87028	1.08776					
		NPP_lim*OM	-0.00032	0.00054	-0.591	0.55424	0.99968					
	NPP x LOC	Intercept	-1.84566	1.66969	-1.105	0.26899	0.15792	76	54	102	122	0.12
		NPP_lim	0.0014	0.00177	0.792	0.42842	1.0014					
		LOC	-0.25755	1.84319	-0.14	0.88887	0.77294					
		NPP_lim*LOC	0.00087	0.00197	0.442	0.65854	1.00087					
	NPP x pH	Intercept	-18.6815	15.27126	-1.223	0.22121	0	79	44	101	122	0.1
		NPP_lim	0.01703	0.01649	1.033	0.30177	1.01717					
		pH	2.041	1.88878	1.081	0.27988	7.69831					
		NPP_lim*pH	-0.00181	0.00206	-0.879	0.37953	0.99819					
	NPP x PR	Intercept	0.63042	2.37925	0.265	0.79104	1.87839	72	66	76	81	0.14
		NPP_lim	0.00046	0.00281	0.163	0.87019	1.00046					
		PR	-1.33306	1.12554	-1.184	0.23627	0.26367					
		NPP_lim*PR	0.0012	0.00136	0.882	0.37782	1.0012					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
PON	GCI x SOM	Intercept	-7.01574	2.13829	-3.281	0.00103	0.0009	79	62	82	90	0.25
		GCI	0.25194	0.08032	3.137	0.00171	1.28651					
		OM	3.53426	0.95255	3.71	0.00021	34.26963					
		GCI*OM	-0.1282	0.03501	-3.662	0.00025	0.87968					
	GCI x LOC	Intercept	2.30653	1.91481	1.205	0.22837	10.039533	58	58	96	117	0.06
		GCI	-0.10118	0.06973	-1.451	0.1468	0.90377					
		LOC	-2.05003	2.28914	-0.896	0.3705	0.12873					
		GCI*LOC	0.08937	0.08361	1.069	0.28512	1.09349					
	GCI x pH	Intercept	23.68423	13.19907	1.794	0.07275	10000+	76	69	96	117	0.13
		GCI	-0.2891	0.48231	-0.599	0.5489	0.74894					
		pH	-2.98512	1.63432	-1.827	0.06777	0.05053					
		GCI*pH	0.03582	0.05929	0.604	0.54574	1.03647					
	GCI x PR	Intercept	-4.116	2.60314	-1.581	0.11384	0.01631	83	68	71	76	0.26
		GCI	0.21806	0.09318	2.34	0.01928	1.24366					
		PR	1.19801	0.93476	1.282	0.19997	3.31351					
		GCI*PR	-0.06413	0.02936	-2.184	0.02893	0.93789					
	GCI											
	SOM											
	PR											
	AI x SOM	Intercept	-4.37102	1.17381	-3.724	0.0002	0.01264	79	66	81	90	0.17
		AI	6.37045	2.02417	3.147	0.00165	584.3223					
		OM	1.33054	0.4616	2.882	0.00395	3.78309					
		AI*OM	-1.97531	0.8436	-2.342	0.0192	0.13872					
	AI x LOC	Intercept	0.09235	1.39899	0.066	0.94737	1.09675	85	56	92	117	0.1
		AI	-0.07086	1.76485	-0.04	0.96797	0.9316					
		LOC	-1.45165	1.66488	-0.872	0.38325	0.23418					
		AI*LOC	2.1454	2.18685	0.981	0.32657	8.54547					
	AI x pH	Intercept	18.96096	8.75334	2.166	0.0303	10000+	76	79	91	117	0.16
		AI	-7.43449	11.17829	-0.665	0.506	0.00059					
		pH	-2.48721	1.08629	-2.29	0.02204	0.08314					
		AI*pH	1.08122	1.40504	0.77	0.44158	2.94827					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	AI x PR	Intercept	0.01328	1.74344	0.008	0.99392	1.01337	83	72	71	76	0.35
		AI	4.01558	3.3943	1.183	0.23679	55.4557					
		PR	-0.66049	0.70489	-0.937	0.34875	0.5166					
		AI*PR	-0.24569	1.33744	-0.184	0.85425	0.78216					
	PET x SOM	Intercept	7.08366	2.48389	2.852	0.00435	1192.321	93	64	78	90	0.21
		PETmy	-0.00729	0.0025	-2.917	0.00354	0.99273					
		OM	-3.42476	1.10416	-3.102	0.00192	0.03256					
		PETmy*OM	0.00334	0.0011	3.031	0.00244	1.00334					
	PET x LOC	Intercept	-1.80167	1.34146	-1.343	0.17925	0.16502	79	51	87	117	0.04
		PETmy	0.00161	0.00167	0.966	0.33409	1.00162					
		LOC	1.31685	1.27719	1.031	0.30252	3.73165					
		PETmy*LOC	-0.00119	0.00171	-0.697	0.48581	0.99881					
	PET x pH	Intercept	12.9091	14.88498	0.867	0.3858	10000+	76	73	79	117	0.14
		PETmy	0.00387	0.01498	0.258	0.79633	1.00388					
		pH	-1.72599	1.92476	-0.897	0.36986	0.178					
		PETmy*pH	-0.0004	0.00193	-0.208	0.83518	0.9996					
	PET x PR	Intercept	8.44956	4.07038	2.076	0.03791	4673.033	79	77	71	76	0.31
		PETmy	-0.00639	0.00414	-1.544	0.12268	0.99363					
		PR	-1.60437	1.44129	-1.113	0.26565	0.20102					
		PETmy*PR	0.00081	0.00152	0.532	0.59481	1.00081					
	T x SOM	Intercept	3.76313	1.76976	2.126	0.03347	43.08314	86	67	78	90	0.18
		Tmy	-0.27862	0.11646	-2.393	0.01673	0.75682					
		OM	-2.2648	0.75872	-2.985	0.00284	0.10385					
		Tmy*OM	0.15999	0.04981	3.212	0.00132	1.1735					
	T x LOC	Intercept	-1.38609	0.86435	-1.604	0.1088	0.25005	67	62	87	117	0.04
		Tmy	0.06875	0.07252	0.948	0.34314	1.07116					
		LOC	0.54998	0.55339	0.994	0.3203	1.73322					
		Tmy*LOC	-0.00881	0.05481	-0.161	0.87234	0.99123					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	T x pH	Intercept	75.61952	22.07302	3.426	0.00061	10000+	70	75	80	117	0.29
		Tmy	-3.55322	1.36072	-2.611	0.00902	0.02863					
		pH	-10.1266	2.88839	-3.506	0.00045	0.00004					
		Tmy*pH	0.48495	0.17663	2.746	0.00604	1.6241					
	T x PR	Intercept	5.16218	2.81775	1.832	0.06695	174.5443	79	77	71	76	0.23
		Tmy	-0.1837	0.20009	-0.918	0.35857	0.83219					
		PR	-1.16542	0.92549	-1.259	0.20794	0.31179					
		Tmy*PR	0.01701	0.07271	0.234	0.81501	1.01716					
	P x SOM	Intercept	-3.48653	1.6256	-2.145	0.03197	0.03061	79	61	81	90	0.15
		Pmy	0.00583	0.00319	1.83	0.06727	1.00585					
		OM	0.36649	0.59493	0.616	0.53788	1.44266					
		Pmy*OM	-0.00028	0.00111	-0.252	0.80106	0.99972					
	P x LOC	Intercept	QS					88	54	95	117	0.15
		Pmy	QS									
		LOC	QS									
		Pmy*LOC	QS									
	P x pH	Intercept	21.54925	12.01464	1.794	0.07288	10000+	76	82	93	117	0.17
		Pmy	-0.01422	0.019	-0.748	0.45416	0.98588					
		pH	-2.85165	1.48937	-1.915	0.05553	0.05775					
		Pmy*pH	0.00202	0.00239	0.847	0.39693	1.00202					
	P x PR	Intercept	-0.42421	2.57944	-0.164	0.86937	0.65428	79	72	71	76	0.32
		Pmy	0.00586	0.00569	1.03	0.30279	1.00588					
		PR	-0.76832	1.09809	-0.7	0.48412	0.46379					
		Pmy*PR	-0.00013	0.00235	-0.055	0.95584	0.99987					
	NPP x SOM	Intercept	-3.80556	1.85661	-2.05	0.04039	0.02225	79	62	81	90	0.13
		NPP_lim	0.00388	0.00216	1.795	0.07265	1.00389					
		OM	0.38504	0.68508	0.562	0.57409	1.46967					
		NPP_lim*OM	-0.00019	0.00076	-0.252	0.80068	0.99981					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	NPP x LOC	Intercept	QS					82	50	92	117	0.15
		NPP_lim	QS									
		LOC	QS									
		NPP_lim*LOC	QS									
	NPP x pH	Intercept	22.16368	16.50519	1.343	0.17933	10000+	76	82	89	117	0.16
		NPP_lim	-0.00911	0.0165	-0.552	0.58062	0.99093					
		pH	-2.93833	2.02957	-1.448	0.14768	0.05295					
		NPP_lim*pH	0.0013	0.00205	0.636	0.52499	1.0013					
	NPP x PR	Intercept	-0.12511	2.86493	-0.044	0.96517	0.8824	79	77	71	76	0.31
		NPP_lim	0.00318	0.00367	0.865	0.38715	1.00318					
		PR	-1.15559	1.20429	-0.96	0.33727	0.31487					
		NPP_lim*PR	0.00039	0.0015	0.263	0.79279	1.00039					

Table 20. Logistic regression models of the interactions between soil texture fractions and soil manageable variables on the scores of the visual soil quality indicators for acid soils. Models with two explanatory variables and an interaction term (the product of the two variables). %CP percentage of correct predictions.

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	SAND x SOM	Intercept	0.06691	1.17441	0.057	0.95456	1.0692	60	55	72	78	0.03
		OM	0.30382	0.43111	0.705	0.48097	1.35503					
		Sand	-0.00185	0.02191	-0.085	0.93255	0.99815					
		OM*Sand	-0.00608	0.00762	-0.798	0.42478	0.99394					
	SAND x LOC	Intercept	0.44559	0.73525	0.606	0.54449	1.5614	68	60	105	111	0.06
		LOC	0.07088	0.25292	0.28	0.77927	1.07346					
		Sand	-0.02204	0.01619	-1.361	0.17353	0.9782					
		LOC*Sand	0.00325	0.00491	0.663	0.50754	1.00326					
	SAND x pH	Intercept	4.31399	4.10355	1.051	0.29313	74.73844	49	60	112	117	0.03
		pH	-0.58987	0.68788	-0.858	0.39116	0.5544					
		Sand	-0.10311	0.08759	-1.177	0.23916	0.90203					
		pH*Sand	0.01439	0.01463	0.984	0.32534	1.01449					
	SAND x PR	Intercept	0.80969	1.24558	0.65	0.51566	2.24721	56	71	92	97	0.06
		PR	0.17529	0.54768	0.32	0.74893	1.19159					
		Sand	-0.00585	0.02783	-0.21	0.83339	0.99416					
		PR*Sand	-0.00999	0.01288	-0.775	0.43817	0.99006					
	SILT x SOM	Intercept	0.56836	0.99888	0.569	0.56936	1.76536	50	53	72	78	0.02
		Silt	-0.01477	0.0232	-0.637	0.52437	0.98534					
		OM	-0.38747	0.35671	-1.086	0.27737	0.67877					
		Silt*OM	0.0108	0.00883	1.223	0.22131	1.01086					
	SILT x LOC	Intercept	-1.38217	0.71495	-1.933	0.05321	0.25103	70	64	105	111	0.06
		Silt	0.01931	0.01549	1.247	0.2125	1.0195					
		LOC	0.34237	0.27455	1.247	0.2124	1.40828					
		Silt*LOC	-0.00266	0.00756	-0.353	0.72438	0.99734					
	SILT x pH	Intercept	-1.8246	4.12943	-0.442	0.65859	0.16128	54	40	112	117	0.01
		Silt	0.04629	0.09277	0.499	0.6178	1.04738					
		pH	0.22331	0.68764	0.325	0.74537	1.25021					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Silt*pH	-0.00561	0.0153	-0.367	0.71393	0.99441					
	SILT x PR	Intercept	0.95026	1.36435	0.696	0.48612	2.58639	51	68	92	97	0.03
		Silt	-0.00992	0.03147	-0.315	0.75254	0.99013					
		PR	-0.83459	0.67361	-1.239	0.21535	0.43405					
		Silt*PR	0.01376	0.01453	0.947	0.34389	1.01385					
	CLAY x SOM	Intercept	-0.42108	0.59177	-0.712	0.47674	0.65634	80	42	71	78	0.04
		Clay	0.05275	0.05122	1.03	0.30308	1.05417					
		OM	-0.04174	0.24511	-0.17	0.86477	0.95912					
		Clay*OM	-0.00576	0.01787	-0.323	0.74704	0.99425					
	CLAY x LOC	Intercept	-0.52622	0.36863	-1.428	0.15343	0.59083	76	51	105	111	0.05
		Clay	0.00018	0.02679	0.007	0.99455	1.00018					
		LOC	0.20589	0.12652	1.627	0.10367	1.22862					
		Clay*LOC	0.00068	0.00704	0.097	0.92263	1.00068					
	CLAY x pH	Intercept	-3.12618	2.60023	-1.202	0.22926	0.04389	54	60	109	117	0.02
		Clay	0.16954	0.12589	1.347	0.17806	1.18476					
		pH	0.47188	0.42422	1.112	0.26599	1.603					
		Clay*pH	-0.02532	0.02145	-1.181	0.2378	0.975					
	CLAY x PR	Intercept	-0.60854	0.9339	-0.652	0.51465	0.54415	63	53	92	97	0.03
		Clay	0.05408	0.04508	1.2	0.23022	1.05557					
		PR	0.06879	0.36136	0.19	0.84901	1.07122					
		Clay*PR	-0.01137	0.01688	-0.674	0.50051	0.98869					
POR	SAND x SOM	Intercept	0.6418	1.25963	0.51	0.61039	1.8999	75	48	72	78	0.09
		Sand	-0.03577	0.02568	-1.393	0.16375	0.96486					
		OM	-0.29914	0.47028	-0.636	0.52472	0.74146					
		Sand*OM	0.01629	0.00969	1.682	0.09264	1.01642					
	SAND x LOC	Intercept	0.43746	0.68329	0.64	0.52202	1.54877	53	40	105	111	0
		Sand	-0.00864	0.01431	-0.604	0.54596	0.9914					
		LOC	-0.10259	0.24026	-0.427	0.66937	0.90249					
		Sand*LOC	0.00177	0.00459	0.387	0.69891	1.00178					
	SAND x pH	Intercept	-4.21239	3.96811	-1.062	0.28843	0.01481	38	66	112	117	0.01
		Sand	0.07872	0.08039	0.979	0.32744	1.08191					
		pH	0.66232	0.66962	0.989	0.32262	1.93928					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Sand*pH	-0.01231	0.01362	-0.904	0.36597	0.98776					
	SAND x PR	Intercept	0.35067	1.22276	0.287	0.77427	1.42003	44	63	92	97	0.02
		Sand	0.00203	0.0259	0.078	0.93745	1.00203					
		PR	-0.3498	0.5272	-0.664	0.50701	0.70483					
		Sand*PR	0.00334	0.01141	0.292	0.77005	1.00334					
	SILT x SOM	Intercept	-2.48567	1.25214	-1.985	0.04713	0.08327	78	62	72	78	0.08
		Silt	0.03345	0.02616	1.279	0.20091	1.03402					
		OM	0.94666	0.47527	1.992	0.04639	2.57708					
		Silt*OM	-0.01144	0.01011	-1.132	0.25777	0.98862					
	SILT x LOC	Intercept	-0.34092	0.63251	-0.539	0.58989	0.71111	47	48	105	111	0.02
		Silt	0.00749	0.01442	0.52	0.60332	1.00752					
		LOC	-0.20592	0.27084	-0.76	0.44707	0.8139					
		Silt*LOC	0.00636	0.00761	0.835	0.40362	1.00638					
	SILT x pH	Intercept	3.30269	3.9887	0.828	0.40766	27.1858	64	50	112	117	0.01
		Silt	-0.09677	0.09204	-1.051	0.29308	0.90776					
		pH	-0.57462	0.66692	-0.862	0.38891	0.56292					
		Silt*pH	0.01663	0.01525	1.091	0.27548	1.01677					
	SILT x PR	Intercept	1.93392	1.35958	1.422	0.1549	6.91656	47	56	92	97	0.02
		Silt	-0.03432	0.03159	-1.086	0.27728	0.96626					
		PR	-1.01347	0.64135	-1.58	0.11406	0.36296					
		Silt*PR	0.01837	0.01425	1.289	0.19723	1.01854					
	CLAY x SOM	Intercept	-1.49187	0.6754	-2.209	0.02718	0.22495	69	50	71	78	0.1
		Clay	0.03357	0.05133	0.654	0.51309	1.03414					
		OM	0.89405	0.33729	2.651	0.00803	2.445					
		Clay*OM	-0.02663	0.01901	-1.401	0.16112	0.97372					
	CLAY x LOC	Intercept	0.21821	0.33868	0.644	0.51937	1.24385	38	62	105	111	0.01
		Clay	-0.01526	0.02528	-0.604	0.54609	0.98486					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		LOC	0.03375	0.12172	0.277	0.78159	1.03432					
		Clay*LOC	-0.0019	0.00668	-0.284	0.77637	0.9981					
	CLAY x pH	Intercept	-0.39085	2.43034	-0.161	0.87223	0.67648	40	56	110	117	0.02
		Clay	0.01653	0.12459	0.133	0.89442	1.01667					
		pH	0.13201	0.40187	0.328	0.74254	1.14112					
		Clay*pH	-0.00778	0.02141	-0.363	0.71649	0.99225					
	CLAY x PR	Intercept	0.26332	0.91193	0.289	0.77278	1.30124	40	72	92	97	0.06
		Clay	0.02716	0.05104	0.532	0.59468	1.02753					
		PR	0.07647	0.3594	0.213	0.8315	1.07947					
		Clay*PR	-0.0287	0.02249	-1.276	0.20194	0.97171					
STA	SAND x SOM	Intercept	0.0277	1.2235	0.023	0.98194	1.02808	61	69	72	77	0.03
		Sand	0.00097	0.02343	0.041	0.96702	1.00097					
		OM	0.30693	0.4553	0.674	0.50023	1.35925					
		Sand*OM	-0.00722	0.00852	-0.847	0.39703	0.99281					
	SAND x LOC	Intercept	2.10037	0.78376	2.68	0.00736	8.16919	71	66	104	110	0.08
		Sand	-0.04535	0.01773	-2.558	0.01053	0.95566					
		LOC	-0.23587	0.28442	-0.829	0.40695	0.78989					
		Sand*LOC	0.004	0.00562	0.712	0.47618	1.00401					
	SAND x pH	Intercept	-5.27823	4.37235	-1.207	0.22736	0.0051	71	65	112	116	0.07
		Sand	0.10498	0.09249	1.135	0.25636	1.11068					
		pH	1.12138	0.74139	1.513	0.1304	3.06908					
		Sand*pH	-0.02277	0.01577	-1.443	0.14898	0.97749					
	SAND x PR	Intercept	-0.19082	1.5404	-0.124	0.90141	0.82629	70	63	92	96	0.17
		Sand	-0.04033	0.03659	-1.102	0.27035	0.96047					
		PR	0.72745	0.66327	1.097	0.27275	2.06979					
		Sand*PR	0.00293	0.01529	0.192	0.84803	1.00294					
	SAND											
	SOM											
	PR											
	SILT x SOM	Intercept	0.04939	1.1086	0.045	0.96446	1.05063	61	58	72	77	0.04

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Silt	0.00007	0.0247	0.003	0.99776	1.00007					
		OM	-0.36093	0.41788	-0.864	0.38775	0.69703					
		Silt*OM	0.00912	0.00957	0.953	0.3408	1.00916					
	SILT x LOC	Intercept	-2.26847	0.8266	-2.744	0.00606	0.10347	74	55	104	110	0.01
		Silt	0.05301	0.0174	3.047	0.00231	1.05444					
		LOC	0.24287	0.29724	0.817	0.41388	1.27491					
		Silt*LOC	-0.00616	0.00801	-0.769	0.44194	0.99386					
	SILT x pH	Intercept	1.74637	4.72894	0.369	0.71191	5.73378	71	58	112	116	0.08
		Silt	-0.04337	0.10315	-0.42	0.67412	0.95755					
		pH	-0.54724	0.79461	-0.689	0.49102	0.57855					
		Silt*pH	0.0135	0.01719	0.785	0.43216	1.01359					
	SILT x PR	Intercept	-5.88185	2.03423	-2.891	0.00383	0.00279	67	83	92	96	0.2
		Silt	0.09311	0.04064	2.291	0.02194	1.09759					
		PR	1.89358	0.85457	2.216	0.0267	6.64311					
		Silt*PR	-0.0247	0.01724	-1.432	0.15206	0.97561					
	SILT	Intercept	-9.34813	3.41669	-2.736	0.00622	0.00009	63	84	48	51	0.25
	SOM	Silt	0.14476	0.05829	2.484	0.01301	1.15576					
	LOC	PR	3.3494	1.3327	2.513	0.01196	28.48566					
	PR	Silt*PR	-0.04784	0.02372	-2.017	0.04371	0.95329					
	pH											
	CLAY x SOM	Intercept	0.36077	0.60732	0.594	0.55249	1.43443	65	62	71	77	0.01
		Clay	-0.02465	0.05267	-0.468	0.63971	0.97565					
		OM	-0.20519	0.2637	-0.778	0.43649	0.81449					
		Clay*OM	0.01269	0.01936	0.655	0.51221	1.01277					
	CLAY x LOC	Intercept	0.59065	0.34336	1.72	0.0854	1.80517	65	66	104	110	0.03
		Clay	-0.04087	0.02815	-1.452	0.1465	0.95995					
		LOC	-0.2316	0.13871	-1.67	0.09498	0.79326					
		Clay*LOC	0.01277	0.00783	1.631	0.1028	1.01285					
	CLAY x pH	Intercept	-0.37226	2.48583	-0.15	0.88096	0.68918	41	70	108	116	0
		Clay	-0.03152	0.13167	-0.239	0.8108	0.96897					
		pH	0.07865	0.40874	0.192	0.8474	1.08183					
		Clay*pH	0.00391	0.02227	0.176	0.86057	1.00392					
	CLAY x PR	Intercept	-0.42773	0.99158	-0.431	0.66621	0.65199	59	74	92	96	0.13
		Clay	-0.10435	0.06242	-1.672	0.09459	0.90091					
		PR	0.28604	0.37802	0.757	0.44925	1.33114					
		Clay*PR	0.04021	0.02465	1.632	0.10277	1.04103					
	Clay	Intercept	-9.56241	3.25042	-2.942	0.00326	0.00007	72	84	48	51	0.24

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	SOM	OM	2.88441	1.09056	2.645	0.00817	17.89309					
	LOC	PR	3.73411	1.30365	2.864	0.00418	41.85081					
	pH	OM*PR	-1.05505	0.44214	-2.386	0.01702	0.34817					
	PR											
PAN	SAND x SOM	Intercept	-1.63742	1.52591	-1.073	0.28324	0.19448	51	47	72	78	0.03
		Sand	0.02161	0.02679	0.807	0.41982	1.02185					
		OM	0.45316	0.50702	0.894	0.37144	1.57328					
		Sand*OM	-0.00448	0.00851	-0.526	0.59876	0.99553					
	SAND x LOC	Intercept	-0.84662	0.72391	-1.17	0.2422	0.42886	59	62	105	111	0.04
		Sand	0.02519	0.01524	1.653	0.09833	1.02551					
		LOC	-0.08277	0.26422	-0.313	0.75408	0.92056					
		Sand*LOC	-0.00104	0.00497	-0.209	0.8341	0.99896					
	SAND x pH	Intercept	-1.26709	4.12829	-0.307	0.7589	0.28165	56	57	112	117	0.04
		Sand	-0.05045	0.08243	-0.612	0.54052	0.9508					
		pH	0.11015	0.69201	0.159	0.87353	1.11645					
		Sand*pH	0.01036	0.01394	0.743	0.45747	1.01042					
	SAND x PR	Intercept	-0.62495	1.22893	-0.509	0.61108	0.53529	59	44	92	97	0.02
		Sand	0.00112	0.02568	0.043	0.96536	1.00112					
		PR	0.05194	0.52324	0.099	0.92093	1.05331					
		Sand*PR	0.00457	0.0113	0.404	0.68592	1.00458					
	SILT x SOM	Intercept	-0.25531	1.16352	-0.219	0.82632	0.77468	63	47	72	78	0.03
		Silt	-0.0051	0.02898	-0.176	0.86037	0.99492					
		OM	0.30095	0.38053	0.791	0.42902	1.35114					
		Silt*OM	-0.0036	0.01017	-0.354	0.72356	0.99641					
	SILT x LOC	Intercept	0.92926	0.64354	1.444	0.14874	2.53264	51	68	105	111	0.05
		Silt	-0.01334	0.01465	-0.911	0.36245	0.98675					
		LOC	0.11517	0.27983	0.412	0.68065	1.12207					
		Silt*LOC	-0.00833	0.00812	-1.026	0.30503	0.99171					
	SILT x pH	Intercept	0.28234	4.12592	0.068	0.94544	1.32624	47	75	112	117	0.04
		Silt	-0.1062	0.10063	-1.055	0.29127	0.89925					
		pH	0.02651	0.68405	0.039	0.96909	1.02686					
		Silt*pH	0.01539	0.01635	0.941	0.34651	1.01551					
	SILT x PR	Intercept	1.10174	1.3535	0.814	0.41565	3.00941	48	60	92	97	0.03
		Silt	-0.04293	0.03334	-1.288	0.19786	0.95798					
		PR	-0.33664	0.63429	-0.531	0.5956	0.71417					
		Silt*PR	0.01465	0.01459	1.004	0.31536	1.01476					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	CLAY x SOM	Intercept	0.24074	0.6873	0.35	0.72613	1.27219	75	37	72	78	0.04
		Clay	-0.08362	0.06374	-1.312	0.18961	0.91978					
		OM	-0.09737	0.27343	-0.356	0.72175	0.90722					
		Clay*OM	0.03006	0.02161	1.391	0.16431	1.03051					
	CLAY x LOC	Intercept	0.42498	0.3363	1.264	0.20634	1.52957	61	70	105	111	0.02
		Clay	-0.01396	0.02532	-0.551	0.58135	0.98613					
		LOC	-0.13739	0.12536	-1.096	0.27311	0.87163					
		Clay*LOC	0.0022	0.00677	0.325	0.74512	1.0022					
	CLAY x pH	Intercept	-7.16826	2.74098	-2.615	0.00892	0.00077	55	59	107	117	0.05
		Clay	0.25605	0.1327	1.93	0.05366	1.29182					
		pH	1.19757	0.44778	2.674	0.00749	3.31206					
		Clay*pH	-0.04434	0.02278	-1.946	0.05166	0.95663					
	CLAY x PR	Intercept	-1.58414	0.9245	-1.713	0.08662	0.20512	57	44	92	97	0.03
		Clay	0.06403	0.04513	1.419	0.15597	1.06612					
		PR	0.67187	0.36137	1.859	0.063	1.95789					
		Clay*PR	-0.02757	0.01739	-1.585	0.11287	0.97281					
	CLAY	Intercept	3.00929	3.36003	0.896	0.37046	20.27295	67	50	49	52	0.08
	SOM	pH	-0.74046	0.59134	-1.252	0.21051	0.4769					
	LOC	PR	0.35283	0.36297	0.972	0.33103	1.42308					
	pH	LOC	0.14566	0.15752	0.925	0.35514	1.1568					
	PR											
COL	SAND x SOM	Intercept	4.16963	1.47015	2.836	0.00457	64.69135	74	72	72	78	0.16
		Sand	-0.06343	0.02559	-2.479	0.01317	0.93854					
		OM	-2.10336	0.64446	-3.264	0.0011	0.12205					
		Sand*OM	0.03199	0.01002	3.191	0.00142	1.0325					
	SAND x LOC	Intercept	4.06233	1.03903	3.91	0.00009	58.10952	73	86	105	111	0.27
		Sand	-0.05837	0.01913	-3.051	0.00228	0.9433					
		LOC	-2.30344	0.57036	-4.039	0.00005	0.09991					
		Sand*LOC	0.03262	0.00914	3.57	0.00036	1.03316					
	SAND x pH	Intercept	-9.99403	4.23094	-2.362	0.01817	0.00005	63	60	112	117	0.04
		Sand	0.19808	0.08485	2.334	0.01957	1.21905					
		pH	1.66412	0.71442	2.329	0.01984	5.28102					
		Sand*pH	-0.03304	0.0144	-2.295	0.02175	0.9675					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	SAND x PR	Intercept	-1.52404	1.29871	-1.174	0.24059	0.21783	62	58	92	97	0.08
		Sand	-0.00133	0.0274	-0.048	0.96137	0.99867					
		PR	0.49891	0.57355	0.87	0.38438	1.64692					
		Sand*PR	0.00518	0.01256	0.412	0.68006	1.00519					
	SAND	Intercept	2.71768	1.46422	1.856	0.06344	15.14518	84	86	49	52	**0.44**
	SOM	Sand	-0.06426	0.02606	-2.466	0.01366	0.93776					
	LOC	LOC	-1.35713	0.39828	-3.407	0.00066	0.2574					
	pH	PR	0.94126	0.47534	1.98	0.04768	2.56321					
	PR											
	SILT x SOM	Intercept	-3.73362	1.29964	-2.873	0.00407	0.02391	91	63	72	78	0.19
		Silt	0.11554	0.03429	3.369	0.00075	1.12248					
		OM	1.17192	0.41968	2.792	0.00523	3.22817					
		Silt*OM	-0.04088	0.01229	-3.327	0.00088	0.95995					
	SILT x LOC	Intercept	-3.58832	0.99827	-3.595	0.00032	0.02764	90	76	105	111	0.39
		Silt	0.12664	0.0289	4.382	0.00001	1.13501					
		LOC	1.32951	0.39867	3.335	0.00085	3.7792					
		Silt*LOC	-0.05613	0.01365	-4.111	0.00004	0.94542					
	SILT x pH	Intercept	6.9859	4.41922	1.581	0.11392	1081.282	77	58	112	117	0.09
		Silt	-0.18319	0.10389	-1.763	0.07783	0.83261					
		pH	-1.39422	0.75339	-1.851	0.06423	0.24803					
		Silt*pH	0.0363	0.01763	2.06	0.03943	1.03697					
	SILT x PR	Intercept	0.71502	1.49417	0.479	0.63227	2.04423	82	58	92	97	0.17
		Silt	-0.05233	0.03735	-1.401	0.16118	0.94901					
		PR	-1.0865	0.76333	-1.423	0.15463	0.3374					
		Silt*PR	0.04295	0.01871	2.296	0.02168	1.04388					
	SILT	Intercept	-5.37524	2.19337	-2.451	0.01426	0.00463	87	86	49	52	**0.54**
	SOM	Silt	0.09662	0.03245	2.978	0.0029	1.10144					
	LOC	LOC	-1.03886	0.35582	-2.92	0.0035	0.35386					
	pH	PR	1.30974	0.5515	2.375	0.01756	3.70522					
	PR											
	CLAY x SOM	Intercept	1.84148	0.91291	2.017	0.04368	6.30587	72	88	71	78	0.3
		Clay	-0.17512	0.1135	-1.543	0.12284	0.83936					
		OM	0.04533	0.40839	0.111	0.91162	1.04637					
		Clay*OM	-0.00323	0.04198	-0.077	0.93865	0.99677					
	CLAY x LOC	Intercept	2.5546	0.53109	4.81	0	12.86614	82	78	105	111	0.31
		Clay	-0.13719	0.03972	-3.454	0.00055	0.87181					
		LOC	-0.50331	0.18403	-2.735	0.00624	0.60453					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Clay*LOC	0.01185	0.0133	0.891	0.37303	1.01192					
	CLAY x pH	Intercept	0.72995	3.04192	0.24	0.81036	2.07497	70	79	107	117	0.24
		Clay	-0.01394	0.22193	-0.063	0.94992	0.98616					
		pH	0.15772	0.50935	0.31	0.75683	1.17084					
		Clay*pH	-0.02053	0.03821	-0.537	0.59102	0.97968					
	CLAY x PR	Intercept	-0.48281	1.33423	-0.362	0.71746	0.61705	84	81	92	97	0.36
		Clay	-0.0752	0.07355	-1.022	0.30659	0.92756					
		PR	1.05467	0.58495	1.803	0.07138	2.87103					
		Clay*PR	-0.02342	0.03076	-0.762	0.44636	0.97685					
	CLAY	Intercept	-2.29113	2.52384	-0.908	0.36399	0.10115	87	86	49	52	0.42
	SOM	Clay	-0.00076	0.12172	-0.006	0.99503	0.99924					
	LOC	PR	1.90855	1.1118	1.717	0.08605	6.74329					
	pH	Clay*PR	-0.0532	0.05027	-1.058	0.28996	0.94819					
	PR											
EAR	SAND x SOM	Intercept	-5.08245	1.94734	-2.61	0.00906	0.0062	76	64	72	78	0.14
		Sand	0.07652	0.03184	2.403	0.01625	1.07952					
		OM	1.33385	0.60476	2.206	0.02741	3.79563					
		Sand*OM	-0.01696	0.00968	-1.752	0.07984	0.98318					
	SAND x LOC	Intercept	-1.39918	0.82009	-1.706	0.08799	0.2468	78	72	105	111	0.15
		Sand	0.0454	0.01724	2.633	0.00845	1.04644					
		LOC	0.07474	0.33808	0.221	0.82503	1.07761					
		Sand*LOC	-0.00882	0.00674	-1.307	0.19115	0.99122					
	SAND x pH	Intercept	-8.46561	4.77184	-1.774	0.07605	0.00021	67	59	112	117	0.09
		Sand	0.14714	0.09105	1.616	0.10608	1.15852					
		pH	1.13158	0.78271	1.446	0.14826	3.10054					
		Sand*pH	-0.01896	0.01512	-1.254	0.20984	0.98122					
	SAND x PR	Intercept	1.71216	1.56938	1.091	0.27528	5.54093	79	63	92	97	0.19
		Sand	-0.01767	0.03173	-0.557	0.57775	0.98249					
		PR	-1.90363	0.82636	-2.304	0.02124	0.14903					
		Sand*PR	0.03185	0.01644	1.937	0.05277	1.03236					
	SAND	Intercept	-3.99637	3.7032	-1.079	0.28051	0.01838	69	83	49	52	0.55
	SOM	OM	3.3292	1.03585	3.214	0.00131	27.91591					
	LOC	pH	0.22361	0.66853	0.334	0.73802	1.25059					
	pH	LOC	-2.33927	0.86212	-2.713	0.00666	0.0964					
	PR											
	SILT x SOM	Intercept	1.59075	1.24722	1.275	0.20216	4.90744	80	57	72	78	0.1
		Silt	-0.07097	0.03704	-1.916	0.05537	0.93149					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		OM	-0.3705	0.39204	-0.945	0.34462	0.69039					
		Silt*OM	0.02158	0.01153	1.871	0.06133	1.02181					
	SILT x LOC	Intercept	4.23742	0.93865	4.514	0.00001	69.22872	85	73	105	111	0.24
		Silt	-0.08473	0.02156	-3.929	0.00009	0.91876					
		LOC	-2.1678	0.5708	-3.798	0.00015	0.11443					
		Silt*LOC	0.046	0.0135	3.407	0.00066	1.04707					
	SILT x pH	Intercept	0.41068	4.26091	0.096	0.92322	1.50784	70	55	112	117	0.06
		Silt	-0.06106	0.1068	-0.572	0.56755	0.94077					
		pH	0.13198	0.708	0.186	0.85212	1.14109					
		Silt*pH	0.00465	0.01741	0.267	0.78915	1.00467					
	SILT x PR	Intercept	-1.94522	1.48037	-1.314	0.18884	0.14296	84	54	92	97	0.16
		Silt	0.06773	0.03676	1.842	0.06542	1.07007					
		PR	1.76615	0.77703	2.273	0.02303	5.84828					
		Silt*PR	-0.05257	0.01889	-2.783	0.00539	0.94879					
	SILT	Intercept	-3.99637	3.7032	-1.079	0.28051	0.01838	69	83	49	52	0.55
	SOM	OM	3.3292	1.03585	3.214	0.00131	27.91591					
	LOC	pH	0.22361	0.66853	0.334	0.73802	1.25059					
	pH	LOC	-2.33927	0.86212	-2.713	0.00666	0.0964					
	PR											
	CLAY x SOM	Intercept	-0.38603	0.73416	-0.526	0.59902	0.67975	64	68	71	78	0.17
		Clay	-0.07133	0.08018	-0.89	0.37366	0.93116					
		OM	0.62133	0.31497	1.973	0.04853	1.8614					
		Clay*OM	-0.00686	0.0268	-0.256	0.79807	0.99317					
	CLAY x LOC	Intercept	QS					78	58	105	111	0.19
		Clay	QS									
		LOC	QS									
		Clay*LOC	QS									
	CLAY x pH	Intercept	4.23912	2.48053	1.709	0.08746	69.34711	72	39	110	117	0.07
		Clay	-0.40158	0.15731	-2.553	0.01069	0.66926					
		pH	-0.65202	0.40838	-1.597	0.11036	0.52099					
		Clay*pH	0.06283	0.02579	2.436	0.01484	1.06484					
	CLAY x PR	Intercept	2.88599	1.03151	2.798	0.00514	17.92135	56	48	92	97	0.09
		Clay	-0.1094	0.05077	-2.155	0.03118	0.89637					
		PR	-0.98943	0.40771	-2.427	0.01523	0.37179					
		Clay*PR	0.02799	0.01913	1.463	0.14349	1.02838					
	CLAY	Intercept	-3.99637	3.7032	-1.079	0.28051	0.01838	69	83	49	52	0.55
	SOM	OM	3.3292	1.03585	3.214	0.00131	27.91591					

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	LOC	pH	0.22361	0.66853	0.334	0.73802	1.25059					
	pH	LOC	-2.33927	0.86212	-2.713	0.00666	0.0964					
	PR											
ERO	SAND x SOM	Intercept	0.05658	1.39155	0.041	0.96757	1.05821	64	48	73	78	0.07
		Sand	-0.01582	0.02446	-0.647	0.51776	0.98431					
		OM	0.52917	0.57399	0.922	0.35657	1.69753					
		Sand*OM	-0.00368	0.009	-0.408	0.68292	0.99633					
	SAND x LOC	Intercept	1.2105	0.92253	1.312	0.18947	3.35517	61	61	105	111	0.07
		Sand	-0.03352	0.01772	-1.891	0.05859	0.96704					
		LOC	0.0133	0.38697	0.034	0.97259	1.01338					
		Sand*LOC	0.00366	0.0071	0.515	0.60627	1.00367					
	SAND x pH	Intercept	5.89507	5.24675	1.124	0.2612	363.2432	42	76	113	117	0.08
		Sand	-0.16208	0.09838	-1.647	0.09946	0.85037					
		pH	-0.8009	0.88147	-0.909	0.36357	0.44893					
		Sand*pH	0.0235	0.01683	1.396	0.16276	1.02377					
	SAND x PR	Intercept	0.56267	1.81986	0.309	0.75718	1.75535	57	68	93	97	0.1
		Sand	-0.00476	0.03391	-0.14	0.88837	0.99525					
		PR	0.60149	0.81995	0.734	0.46321	1.82484					
		Sand*PR	-0.01506	0.01549	-0.972	0.33083	0.98505					
	SILT x SOM	Intercept	0.0415	1.10473	0.038	0.97003	1.04237	77	55	73	78	0.03
		Silt	-0.01798	0.02497	-0.72	0.47132	0.98218					
		OM	-0.07067	0.40884	-0.173	0.86276	0.93177					
		Silt*OM	0.0103	0.01058	0.973	0.33051	1.01035					
	SILT x LOC	Intercept	-1.21885	0.74373	-1.639	0.10125	0.29557	61	48	105	111	0.04
		Silt	0.02032	0.01778	1.143	0.25314	1.02052					
		LOC	0.55856	0.42245	1.322	0.1861	1.74816					
		Silt*LOC	-0.00977	0.01118	-0.874	0.38209	0.99027					
	SILT x pH	Intercept	-2.91799	4.62445	-0.631	0.52805	0.05404	50	64	113	117	0.02
		Silt	0.02172	0.1097	0.198	0.84309	1.02195					
		pH	0.42545	0.78373	0.543	0.58723	1.53028					
		Silt*pH	-0.002	0.01838	-0.109	0.91352	0.99801					
	SILT x PR	Intercept	1.09385	1.6441	0.665	0.50585	2.98576	48	67	93	97	0.03
		Silt	-0.02038	0.03985	-0.511	0.60914	0.97983					
		PR	-0.87792	0.77379	-1.135	0.25655	0.41565					
		Silt*PR	0.01877	0.01822	1.03	0.30306	1.01895					
	CLAY x SOM	Intercept	-3.20319	0.92075	-3.479	0.0005	0.04063	82	70	73	78	0.28
		Clay	0.40938	0.1356	3.019	0.00254	1.50589					

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		OM	0.61341	0.30065	2.04	0.04132	1.84671					
		Clay*OM	-0.07793	0.03252	-2.396	0.01657	0.92503					
	CLAY x LOC	Intercept	-1.00879	0.37057	-2.722	0.00648	0.36466	61	66	105	111	0.08
		Clay	0.06659	0.03963	1.68	0.0929	1.06886					
		LOC	0.13477	0.18292	0.737	0.46125	1.14427					
		Clay*LOC	-0.0019	0.01387	-0.137	0.89119	0.9981					
	CLAY x pH	Intercept	-9.2875	2.87189	-3.234	0.00122	0.00009	54	79	108	117	0.17
		Clay	0.82041	0.31249	2.625	0.00865	2.27144					
		pH	1.39834	0.47338	2.954	0.00314	4.04846					
		Clay*pH	-0.12064	0.04754	-2.538	0.01116	0.88635					
	CLAY x PR	Intercept	-1.88452	1.06217	-1.774	0.07603	0.1519	76	66	93	97	0.12
		Clay	0.1377	0.07568	1.82	0.06883	1.14764					
		PR	0.3732	0.41327	0.903	0.36651	1.45237					
		Clay*PR	-0.01993	0.02952	-0.675	0.49965	0.98027					
	CLAY	Intercept	QS					93	79	49	52	0.5
	SOM	Clay	QS									
	LOC	LOC	QS									
	pH	PR	QS									
	PR											
PON	SAND x SOM	Intercept	-2.07447	1.8908	-1.097	0.27258	0.12562	62	85	55	59	0.25
		Sand	0.03751	0.03252	1.154	0.24868	1.03822					
		OM	2.23438	1.06824	2.092	0.03647	9.34065					
		Sand*OM	-0.03629	0.01558	-2.33	0.01983	0.96436					
	SAND x LOC	Intercept	-1.5719	1.06888	-1.471	0.1414	0.20765	82	52	88	92	0.08
		Sand	0.02233	0.02314	0.965	0.33464	1.02258					
		LOC	0.83195	0.98432	0.845	0.398	2.29778					
		Sand*LOC	-0.00786	0.01725	-0.455	0.64883	0.99217					
	SAND x pH	Intercept	12.98046	6.93344	1.872	0.06119	10000+	59	78	93	98	0.16
		Sand	-0.34328	0.12281	-2.795	0.00519	0.70944					
		pH	-2.05155	1.11349	-1.842	0.06541	0.12854					
		Sand*pH	0.05593	0.02076	2.695	0.00705	1.05753					
	SAND x PR	Intercept	3.64932	2.37029	1.54	0.12366	38.44864	79	72	73	78	0.16
		Sand	-0.10153	0.045	-2.256	0.02406	0.90345					
		PR	-1.10886	1.02389	-1.083	0.27881	0.32994					
		Sand*PR	0.03646	0.02011	1.813	0.06987	1.03713					
	SAND	NED										
	SOM	NED										

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
	LOC	NED										
	pH	NED										
	PR	NED										
	SILT x SOM	Intercept	1.58261	1.37563	1.15	0.24995	4.86764	77	78	55	59	0.37
		Silt	-0.06509	0.03949	-1.648	0.09936	0.93699					
		OM	-1.95889	0.72933	-2.686	0.00723	0.14101					
		Silt*OM	0.08291	0.03097	2.677	0.00743	1.08644					
	SILT x LOC	Intercept	-0.98593	0.87345	-1.129	0.25899	0.37309	82	42	88	92	0.09
		Silt	0.00717	0.02271	0.316	0.75224	1.00719					
		LOC	-0.11908	0.80379	-0.148	0.88222	0.88773					
		Silt*LOC	0.01974	0.02913	0.678	0.49795	1.01994					
	SILT x pH	Intercept	-8.92992	5.62729	-1.587	0.11254	0.00013	65	68	93	98	0.13
		Silt	0.1196	0.14457	0.827	0.40809	1.12704					
		pH	1.26986	0.96522	1.316	0.1883	3.56037					
		Silt*pH	-0.01377	0.02448	-0.563	0.5737	0.98632					
	SILT x PR	Intercept	-4.56556	1.89069	-2.415	0.01575	0.0104	76	67	73	78	0.17
		Silt	0.09477	0.05118	1.852	0.06406	1.09941					
		PR	1.51091	0.89984	1.679	0.09314	4.53085					
		Silt*PR	-0.02563	0.02191	-1.17	0.24202	0.97469					
	SILT	NED										
	SOM	NED										
	LOC	NED										
	pH	NED										
	PR	NED										
	CLAY x SOM	Intercept	4.90474	1.78442	2.749	0.00598	134.9278	77	76	54	59	0.23
		Clay	-0.61772	0.23844	-2.591	0.00958	0.53917					
		OM	-1.80652	0.58224	-3.103	0.00192	0.16423					
		Clay*OM	0.21799	0.0805	2.708	0.00677	1.24357					
	CLAY x LOC	Intercept	-2.80683	1.41796	-1.979	0.04776	0.0604	100	84	88	92	**0.42**
		Clay	0.19067	0.12058	1.581	0.11383	1.21006					
		LOC	11.16097	4.4093	2.531	0.01137	10000+					
		Clay*LOC	-0.64167	0.25507	-2.516	0.01188	0.52641					
	CLAY x pH	Intercept	-19.8613	4.97869	-3.989	0.00007	0	88	84	88	98	0.3
		Clay	1.53231	0.51521	2.974	0.00294	4.62888					
		pH	3.5148	0.89822	3.913	0.00009	33.60904					
		Clay*pH	-0.26083	0.08286	-3.148	0.00165	0.77041					
	CLAY x PR	Intercept	-5.07876	1.8219	-2.788	0.00531	0.00623	53	62	73	78	0.17

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Clay	0.31834	0.13309	2.392	0.01676	1.37485					
		PR	2.56577	0.88143	2.911	0.0036	13.01068					
		Clay*PR	-0.17313	0.06477	-2.673	0.00752	0.84103					
	CLAY	NED										
	SOM	NED										
	LOC	NED										
	pH	NED										
	PR	NED										

Table 21. Logistic regression models of the interactions between soil texture fractions and soil manageable variables on the scores of the visual soil quality indicators for alkaline soils. Models with two explanatory variables and an interaction term (the product of the two variables). %CP percentage of correct predictions.

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VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	SAND x SOM	Intercept	-1.89268	0.96014	-1.971	0.04869	0.15067	63	64	88	95	0.06
		Sand	0.02489	0.01915	1.3	0.19376	1.0252					
		OM	0.42524	0.29259	1.453	0.14613	1.52995					
		Sand*OM	-0.0032	0.0062	-0.516	0.60589	0.9968					
	SAND x LOC	Intercept	1.23511	0.88619	1.394	0.1634	3.43876	89	34	103	110	0.15
		Sand	-0.04403	0.0209	-2.107	0.03514	0.95692					
		LOC	-1.59235	0.84932	-1.875	0.06081	0.20345					
		Sand*LOC	0.04946	0.01986	2.49	0.01277	1.0507					
	SAND x pH	Intercept	9.0065	3.42656	2.628	0.00858	8155.955	59	64	103	110	0.05
		pH	-1.15732	0.44178	-2.62	0.0088	0.31433					
	SAND x PR	Intercept	-0.92368	1.20966	-0.764	0.44511	0.39705	66	50	77	81	0.05
		Sand	0.04144	0.02721	1.523	0.12767	1.04231					
		PR	0.20433	0.42056	0.486	0.62707	1.22671					
		Sand*PR	-0.01258	0.00958	-1.313	0.18916	0.9875					
	SAND	Intercept	16.4755	6.27884	2.624	0.00869	10000+	70	65	63	66	0.16
	SOM	pH	-2.03346	0.78624	-2.586	0.0097	0.13088					
	LOC	PR	-0.6219	0.24679	-2.52	0.01174	0.53692					
	pH	OM	0.70096	0.31844	2.201	0.02772	2.01569					
	PR											
	SILT x SOM	Intercept	-0.37171	0.93566	-0.397	0.69117	0.68955	71	44	88	95	0.04
		Silt	-0.00976	0.02332	-0.419	0.67552	0.99028					
		OM	0.15852	0.33064	0.479	0.63164	1.17177					
		Silt*OM	0.00281	0.00915	0.307	0.75903	1.00281					
	SILT x LOC	Intercept	-2.03165	0.89547	-2.269	0.02328	0.13112	88	36	103	110	0.12
		Silt	0.03401	0.02008	1.693	0.09043	1.03459					
		LOC	1.9542	0.76492	2.555	0.01063	7.05827					
		Silt*LOC	-0.0354	0.01622	-2.183	0.02905	0.96522					
	SILT x pH	Intercept	5.35055	7.57201	0.707	0.4798	210.7246	56	64	103	110	0.05
		Silt	0.11019	0.19605	0.562	0.57407	1.11649					
		pH	-0.69588	0.97991	-0.71	0.47761	0.49863					

		Silt*pH	-0.0138	0.02489	-0.554	0.57927	0.98629					
	SILT x PR	Intercept	3.25075	1.32204	2.459	0.01394	25.80975	53	75	77	81	0.07
		Silt	-0.06467	0.03296	-1.962	0.04976	0.93738					
		PR	-1.18659	0.53769	-2.207	0.02733	0.30526					
		Silt*PR	0.02505	0.01491	1.68	0.09286	1.02537					
	SILT	Intercept	16.4755	6.27884	2.624	0.00869	10000+	70	65	63	66	0.16
	SOM	pH	-2.03346	0.78624	-2.586	0.0097	0.13088					
	LOC	PR	-0.6219	0.24679	-2.52	0.01174	0.53692					
	PR	OM	0.70096	0.31844	2.201	0.02772	2.01569					
	CLAY x SOM	Intercept	0.04577	0.63735	0.072	0.94276	1.04683	64	59	88	95	0.07
		Clay	-0.05813	0.03541	-1.642	0.10066	0.94353					
		OM	0.19296	0.25669	0.752	0.45222	1.21283					
		Clay*OM	0.00845	0.01015	0.832	0.40516	1.00849					
	CLAY x LOC	Intercept	-1.04555	0.51222	-2.041	0.04123	0.3515	89	30	103	110	0.09
		Clay	0.03506	0.03173	1.105	0.26916	1.03568					
		LOC	1.05206	0.48226	2.182	0.02914	2.86355					
		Clay*LOC	-0.04243	0.03462	-1.225	0.22044	0.95846					
	CLAY x pH	Intercept	5.16951	6.00545	0.861	0.38935	175.8288	59	64	102	110	0.05
		Clay	0.22464	0.29934	0.75	0.45297	1.25188					
		pH	-0.65789	0.77556	-0.848	0.39629	0.51794					
		Clay*pH	-0.02908	0.03842	-0.757	0.44907	0.97133					
	CLAY x PR	Intercept	0.21817	0.98233	0.222	0.82424	1.2438	49	68	77	81	0.04
		Clay	0.03464	0.04949	0.7	0.48399	1.03524					
		PR	-0.11784	0.39881	-0.295	0.76762	0.88883					
		Clay*PR	-0.00972	0.01607	-0.605	0.54513	0.99032					
POR	SAND x SOM	Intercept	-1.78682	1.05508	-1.694	0.09035	0.16749	72	56	89	95	0.12
		Sand	0.01282	0.02136	0.6	0.54818	1.01291					
		OM	0.25897	0.31083	0.833	0.40476	1.29559					
		Sand*OM	0.00428	0.00697	0.613	0.53959	1.00429					
	SAND x LOC	Intercept	0.31718	0.78636	0.403	0.68669	1.37325	91	29	103	110	0.09
		Sand	-0.01608	0.01643	-0.979	0.32759	0.98404					
		LOC	-0.74112	0.67109	-1.104	0.26944	0.47658					
		Sand*LOC	0.02276	0.01295	1.757	0.07896	1.02302					
	SAND x pH	Intercept	27.93628	9.88747	2.825	0.00472	10000+	54	74	104	110	0.11
		Sand	-0.32422	0.17872	-1.814	0.06967	0.72309					
		pH	-3.58901	1.2616	-2.845	0.00444	0.02763					
		Sand*pH	0.0419	0.02304	1.818	0.06901	1.04279					
	SAND x PR	Intercept	-0.70572	1.2783	-0.552	0.5809	0.49375	62	58	77	81	0.01
		Sand	0.01448	0.0277	0.523	0.60101	1.01459					

	PR	0.0323	0.44125	0.073	0.94164	1.03283					
	Sand*PR	-0.00033	0.00961	-0.035	0.97224	0.99967					
SAND	Intercept	18.02322	6.87685	2.621	0.00877	10000+	69	78	63	66	0.21
SOM	OM	1.0337	0.35799	2.887	0.00388	2.81144					
LOC	pH	-2.45032	0.88919	-2.756	0.00586	0.08627					
pH	PR	-0.284	0.24564	-1.156	0.24762	0.75277					
PR											
SILT x SOM	Intercept	-0.47238	1.03072	-0.458	0.64674	0.62351	72	62	89	95	0.1
	Silt	-0.01554	0.02644	-0.588	0.55667	0.98458					
	OM	0.40199	0.36317	1.107	0.26834	1.49479					
	Silt*OM	-0.00128	0.00994	-0.129	0.89754	0.99872					
SILT x LOC	Intercept	-1.14177	0.76132	-1.5	0.13369	0.31925	82	29	103	110	0.1
	Silt	0.01694	0.01914	0.885	0.37591	1.01709					
	LOC	1.36191	0.59843	2.276	0.02286	3.90363					
	Silt*LOC	-0.02671	0.01524	-1.753	0.07956	0.97364					
SILT x pH	Intercept	-3.32853	7.87813	-0.423	0.67266	0.03585	54	74	104	110	0.12
	Silt	0.46651	0.22577	2.066	0.0388	1.59442					
	pH	0.44605	1.02122	0.437	0.66227	1.56212					
	Silt*pH	-0.06016	0.02892	-2.08	0.03752	0.94161					
SILT x PR	Intercept	2.28333	1.26523	1.805	0.07112	9.8093	49	65	77	81	0.04
	Silt	-0.06383	0.03433	-1.859	0.063	0.93816					
	PR	-0.7422	0.48756	-1.522	0.12794	0.47606					
	Silt*PR	0.02245	0.01467	1.53	0.12594	1.02271					
SILT	Intercept	18.02322	6.87685	2.621	0.00877	10000+	69	78	63	66	0.21
SOM	OM	1.0337	0.35799	2.887	0.00388	2.81144					
pH	pH	-2.45032	0.88919	-2.756	0.00586	0.08627					
PR	PR	-0.284	0.24564	-1.156	0.24762	0.75277					
CLAY x SOM	Intercept	-1.35973	0.74928	-1.815	0.06957	0.25673	70	53	89	95	0.1
	Clay	0.00231	0.03554	0.065	0.94821	1.00231					
	OM	0.67202	0.29573	2.272	0.02306	1.95819					
	Clay*OM	-0.00898	0.01059	-0.848	0.39661	0.99106					
CLAY x LOC	Intercept	-0.60812	0.47169	-1.289	0.19731	0.54437	78	31	103	110	0.06
	Clay	-0.00046	0.02917	-0.016	0.98745	0.99954					
	LOC	0.35735	0.39092	0.914	0.36066	1.42953					
	Clay*LOC	0.00702	0.02976	0.236	0.81363	1.00704					
CLAY x pH	Intercept	12.97853	6.45949	2.009	0.04451	10000+	59	69	103	110	0.09
	Clay	-0.02799	0.29989	-0.093	0.92563	0.97239					
	pH	-1.68714	0.83896	-2.011	0.04433	0.18505					
	Clay*pH	0.00439	0.03853	0.114	0.9093	1.0044					

	CLAY x PR	Intercept	-2.35635	1.15915	-2.033	0.04207	0.09477	55	69	77	81	0.06
		Clay	0.11581	0.05548	2.087	0.03685	1.12279					
		PR	0.9213	0.44549	2.068	0.03863	2.51254					
		Clay*PR	-0.03997	0.01839	-2.173	0.02978	0.96082					
	CLAY	Intercept	18.02322	6.87685	2.621	0.00877	10000+	69	78	63	66	0.21
	SOM	OM	1.0337	0.35799	2.887	0.00388	2.81144					
	LOC	pH	-2.45032	0.88919	-2.756	0.00586	0.08627					
	pH	PR	-0.284	0.24564	-1.156	0.24762	0.75277					
	PR											
STA	SAND x SOM	Intercept	-1.18536	1.10566	-1.072	0.28369	0.30564	76	57	88	95	0.1
		Sand	0.00068	0.02318	0.029	0.97675	1.00068					
		OM	0.15585	0.32095	0.486	0.62725	1.16866					
		Sand*OM	0.00576	0.00719	0.8	0.42365	1.00577					
	SAND x LOC	Intercept	0.46257	0.75991	0.609	0.54271	1.58815	68	43	103	110	0.02
		Sand	-0.01423	0.0155	-0.918	0.35858	0.98587					
		LOC	-0.26281	0.58109	-0.452	0.65107	0.76889					
		Sand*LOC	0.00772	0.00945	0.817	0.41421	1.00775					
	SAND x pH	Intercept	16.9396	9.28006	1.825	0.06794	10000+	64	60	103	110	0.04
		Sand	-0.21288	0.17992	-1.183	0.23671	0.80825					
		pH	-2.11973	1.18152	-1.794	0.0728	0.12006					
		Sand*pH	0.02627	0.0232	1.132	0.2576	1.02661					
	SAND x PR	Intercept	2.67098	1.65271	1.616	0.10607	14.454119	64	47	77	81	0.05
		Sand	-0.04382	0.03755	-1.167	0.24321	0.95713					
		PR	-1.05242	0.73455	-1.433	0.15193	0.34909					
		Sand*PR	0.01656	0.01528	1.084	0.27819	1.0167					
	SILT x SOM	Intercept	-3.37263	1.31985	-2.555	0.01061	0.0343	78	64	88	95	0.12
		Silt	0.0561	0.0285	1.968	0.04904	1.0577					
		OM	1.09328	0.42269	2.586	0.0097	2.98403					
		Silt*OM	-0.0193	0.01058	-1.825	0.06806	0.98089					
	SILT x LOC	Intercept	-1.32718	0.68295	-1.943	0.05198	0.26522	63	50	103	110	0.04
		Silt	0.02972	0.01743	1.705	0.08813	1.03017					
		LOC	0.51413	0.31901	1.612	0.10704	1.67219					
		Silt*LOC	-0.01049	0.00991	-1.058	0.28989	0.98956					
	SILT x pH	Intercept	4.1047	8.86585	0.463	0.64338	60.62484	66	67	103	110	0.05
		Silt	0.12446	0.2119	0.587	0.55697	1.13254					

		pH	-0.64606	1.15466	-0.56	0.5758	0.52411					
		Silt*pH	-0.01272	0.02701	-0.471	0.63758	0.98736					
	SILT x PR	Intercept	-1.12486	1.65271	-0.681	0.49611	0.3247	73	53	77	81	0.08
		Silt	0.03973	0.03669	1.083	0.27879	1.04053					
		PR	0.01262	0.63417	0.02	0.98412	1.0127					
		Silt*PR	-0.00596	0.01703	-0.35	0.72656	0.99406					
	SILT	Intercept	4.85401	1.7618	2.755	0.00587	128.2539	70	85	63	66	0.14
	SOM	OM	-1.8988	0.91271	-2.08	0.03749	0.14975					
	LOC	PR	-1.63535	0.63337	-2.582	0.00982	0.19488					
	pH	OM*PR	0.52064	0.23207	2.243	0.02487	1.68311					
	PR											
	CLAY x SOM	Intercept	0.62669	0.72629	0.863	0.38821	1.87141	66	57	88	95	0.19
		Clay	-0.14461	0.05328	-2.714	0.00664	0.86536					
		OM	0.20814	0.27163	0.766	0.44352	1.23139					
		Clay*OM	0.02131	0.01211	1.76	0.07838	1.02154					
	CLAY x LOC	Intercept	-0.01302	0.48511	-0.027	0.97859	0.98706	58	63	103	110	0.02
		Clay	-0.00507	0.03393	-0.149	0.88127	0.99495					
		LOC	0.32789	0.41947	0.782	0.4344	1.38804					
		Clay*LOC	-0.01505	0.03544	-0.425	0.67118	0.98507					
	CLAY x pH	Intercept	-3.86663	6.52834	-0.592	0.55366	0.02093	43	80	102	110	0.05
		Clay	0.61441	0.36941	1.663	0.09627	1.84856					
		pH	0.54916	0.84565	0.649	0.51609	1.73179					
		Clay*pH	-0.08187	0.04811	-1.702	0.08879	0.92139					
	CLAY x PR	Intercept	2.68365	1.33819	2.005	0.04492	14.63846	59	67	77	81	0.13
		Clay	-0.17543	0.10091	-1.739	0.08211	0.83909					
		PR	-0.58232	0.49635	-1.173	0.24071	0.5586					
		Clay*PR	0.02796	0.02595	1.077	0.28136	1.02835					
PAN	SAND x SOM	Intercept	-3.26729	1.30792	-2.498	0.01249	0.03811	74	76	88	95	0.2
		Sand	0.03574	0.02413	1.481	0.13865	1.03638					
		OM	0.44257	0.34688	1.276	0.20201	1.55671					
		Sand*OM	0.00314	0.00749	0.418	0.67561	1.00314					
	SAND x LOC	Intercept	0.18357	1.18599	0.155	0.87699	1.2015	68	64	103	110	0.15
		Sand	0.0036	0.02074	0.173	0.86237	1.0036					
		LOC	-2.34403	1.39052	-1.686	0.09185	0.09594					
		Sand*LOC	0.04053	0.02257	1.796	0.07256	1.04137					

SAND x pH	Intercept	27.39348	11.39011	2.405	0.01617	10000+	68	79	103	110	0.23
	Sand	-0.22638	0.20207	-1.12	0.26258	0.79742					
	pH	-3.71885	1.47841	-2.515	0.01189	0.02426					
	Sand*pH	0.03328	0.0263	1.266	0.20565	1.03384					
SAND x PR	Intercept	-2.58929	1.71657	-1.508	0.13145	0.07507	73	64	77	81	0.2
	Sand	0.08186	0.03634	2.253	0.02429	1.08531					
	PR	0.12485	0.63125	0.198	0.84322	1.13298					
	Sand*PR	-0.01324	0.0131	-1.011	0.31209	0.98685					
SILT x SOM	Intercept	-0.72831	1.12304	-0.649	0.51665	0.48272	82	55	88	95	0.12
	Silt	-0.01631	0.02885	-0.566	0.57169	0.98382					
	OM	0.33653	0.37072	0.908	0.364	1.40007					
	Silt*OM	0.00295	0.01028	0.287	0.77374	1.00296					
SILT x LOC	Intercept	-0.15926	0.69361	-0.23	0.8184	0.85278	60	55	103	110	0.09
	Silt	0.00465	0.02118	0.219	0.8263	1.00466					
	LOC	1.17134	0.60236	1.945	0.05183	3.22631					
	Silt*LOC	-0.03717	0.02205	-1.686	0.09182	0.96351					
SILT x pH	Intercept	14.87714	8.9788	1.657	0.09754	10000+	66	76	103	110	0.19
	Silt	0.07294	0.23945	0.305	0.76067	1.07566					
	pH	-1.84354	1.16982	-1.576	0.11505	0.15826					
	Silt*pH	-0.01158	0.03092	-0.375	0.70802	0.98849					
SILT x PR	Intercept	5.28696	1.58015	3.346	0.00082	197.741	75	64	77	81	0.18
	Silt	-0.10827	0.04073	-2.658	0.00786	0.89738					
	PR	-1.61506	0.63455	-2.545	0.01092	0.19888					
	Silt*PR	0.03212	0.01764	1.821	0.06862	1.03264					
SILT	Intercept	10.81087	6.99044	1.547	0.12198	10000+	65	67	63	66	0.14
SOM	OM	0.84537	0.3643	2.321	0.02031	2.32885					
LOC	PR	-0.57247	0.29007	-1.974	0.04843	0.56413					
pH	pH	-1.40185	0.88553	-1.583	0.11341	0.24614					
PR											
CLAY x SOM	Intercept	-0.54747	0.84013	-0.652	0.51463	0.57841	79	62	88	95	0.28
	Clay	-0.12026	0.05755	-2.09	0.03666	0.88669					
	OM	0.94608	0.35968	2.63	0.00853	2.5756					
	Clay*OM	0.00049	0.01333	0.037	0.97056	1.00049					
CLAY x LOC	Intercept	-0.06804	0.52012	-0.131	0.89592	0.93422	50	62	103	110	0.07
	Clay	0.01705	0.04186	0.407	0.68372	1.0172					
	LOC	0.91308	0.58553	1.559	0.1189	2.49198					
	Clay*LOC	-0.06696	0.05107	-1.311	0.18986	0.93524					
CLAY x pH	Intercept	10.20971	7.23962	1.41	0.15846	10000+	72	74	103	110	0.22
	Clay	0.52823	0.4289	1.232	0.2181	1.69593					
	pH	-1.2214	0.94238	-1.296	0.19495	0.29482					

		Clay*pH	-0.07358	0.05623	-1.309	0.19066	0.92906					
	CLAY x PR	Intercept	-0.87936	1.20497	-0.73	0.46552	0.41505	45	92	77	81	0.12
		Clay	0.09801	0.07402	1.324	0.18546	1.10297					
		PR	0.61518	0.49118	1.252	0.2104	1.84999					
		Clay*PR	-0.05221	0.02818	-1.853	0.06392	0.94913					
COL	SAND x SOM	Intercept	-3.10725	1.29228	-2.404	0.0162	0.04472	81	62	89	95	0.17
		Sand	0.03196	0.02456	1.301	0.19327	1.03247					
		OM	0.80559	0.35067	2.297	0.0216	2.23802					
		Sand*OM	-0.0059	0.00718	-0.822	0.41116	0.99412					
	SAND x LOC	Intercept	2.70446	1.2125	2.23	0.02572	14.94619	69	48	103	110	0.12
		Sand	-0.05385	0.02214	-2.432	0.01502	0.94757					
		LOC	-3.03705	1.44032	-2.109	0.03498	0.04798					
		Sand*LOC	0.05491	0.02337	2.35	0.0188	1.05645					
	SAND x pH	Intercept	27.45005	11.16317	2.459	0.01393	10000+	66	73	104	110	0.19
		Sand	-0.10783	0.22731	-0.474	0.63525	0.89778					
		pH	-3.42351	1.43824	-2.38	0.0173	0.0326					
		Sand*pH	0.01096	0.02996	0.366	0.71457	1.01102					
	SAND x PR	Intercept	0.3121	1.41046	0.221	0.82488	1.36629	49	63	77	81	0.01
		Sand	0.004	0.03148	0.127	0.89885	1.00401					
		PR	-0.14107	0.52296	-0.27	0.78735	0.86843					
		Sand*PR	-0.00107	0.01155	-0.093	0.92606	0.99893					
	SAND	Intercept	33.7561	11.46255	2.945	0.00323	10000+	81	89	63	66	0.35
	SOM	OM	1.19415	0.50999	2.342	0.0192	3.30076					
	LOC	pH	-4.32912	1.51259	-2.862	0.00421	0.01318					
	pH	PR	-0.90959	0.40513	-2.245	0.02476	0.40269					
	PR											
	SILT x SOM	Intercept	-1.88963	1.30385	-1.449	0.14726	0.15113	84	54	89	95	0.15
		Silt	0.00781	0.03122	0.25	0.80233	1.00785					
		OM	0.70219	0.41386	1.697	0.08976	2.01817					
		Silt*OM	-0.00523	0.01088	-0.481	0.63035	0.99478					
	SILT x LOC	Intercept	-2.63447	0.89854	-2.932	0.00337	0.07176	74	48	103	110	0.15
		Silt	0.07934	0.02874	2.761	0.00577	1.08257					
		LOC	2.70773	0.92836	2.917	0.00354	14.99524					
		Silt*LOC	-0.09293	0.03709	-2.505	0.01224	0.91126					
	SILT x pH	Intercept	4.36986	9.98102	0.438	0.66152	79.03264	66	70	104	110	0.21

		Silt	0.48957	0.27306	1.793	0.07299	1.63162					
		pH	-0.66592	1.31457	-0.507	0.61246	0.5138					
		Silt*pH	-0.06023	0.03535	-1.704	0.08842	0.94154					
	SILT x PR	Intercept	3.08859	1.66177	1.859	0.06308	21.94611	60	75	77	81	0.09
		Silt	-0.07803	0.04197	-1.859	0.06299	0.92494					
		PR	-1.6735	0.75469	-2.217	0.02659	0.18759					
		Silt*PR	0.04458	0.01981	2.251	0.02441	1.04558					
	SILT	Intercept	33.7561	11.46255	2.945	0.00323	10000+	81	89	63	66	0.35
	SOM	OM	1.19415	0.50999	2.342	0.0192	3.30076					
	LOC	pH	-4.32912	1.51259	-2.862	0.00421	0.01318					
	pH	PR	-0.90959	0.40513	-2.245	0.02476	0.40269					
	PR											
	CLAY x SOM	Intercept	-0.0752	0.79444	-0.095	0.92458	0.92755	83	58	89	95	0.2
		Clay	-0.10316	0.05032	-2.05	0.04036	0.90199					
		OM	0.15557	0.29224	0.532	0.5945	1.16832					
		Clay*OM	0.02294	0.01329	1.726	0.08428	1.0232					
	CLAY x LOC	Intercept	-0.44903	0.47224	-0.951	0.34167	0.63825	83	21	103	110	0.03
		Clay	0.00731	0.02914	0.251	0.80203	1.00733					
		LOC	0.32287	0.35926	0.899	0.36881	1.38109					
		Clay*LOC	-0.00571	0.02871	-0.199	0.84228	0.9943					
	CLAY x pH	Intercept	26.9248	8.53439	3.155	0.00161	10000+	66	73	102	110	0.18
		Clay	-0.39616	0.34024	-1.164	0.24428	0.6729					
		pH	-3.53385	1.12914	-3.13	0.00175	0.02919					
		Clay*pH	0.05289	0.04419	1.197	0.23136	1.05431					
	CLAY x PR	Intercept	-1.61555	1.38116	-1.17	0.24212	0.19878	54	88	77	81	0.08
		Clay	0.10521	0.0767	1.372	0.17012	1.11095					
		PR	0.83011	0.53663	1.547	0.12189	2.29356					
		Clay*PR	-0.04934	0.02784	-1.772	0.07635	0.95186					
	CLAY	Intercept	33.7561	11.46255	2.945	0.00323	10000+	81	89	63	66	0.35
	SOM	OM	1.19415	0.50999	2.342	0.0192	3.30076					
	LOC	pH	-4.32912	1.51259	-2.862	0.00421	0.01318					
	pH	PR	-0.90959	0.40513	-2.245	0.02476	0.40269					
	PR											
EAR	SAND x SOM	Intercept	-0.75055	0.88654	-0.847	0.39722	0.47211	43	75	89	95	0.03
		Sand	0.00292	0.0184	0.159	0.87372	1.00293					
		OM	0.25127	0.28948	0.868	0.38539	1.28565					
		Sand*OM	-0.00065	0.00622	-0.105	0.91667	0.99935					
	SAND x LOC	Intercept	0.78795	1.07764	0.731	0.46467	2.19888	78	58	103	110	0.14
		Sand	0.00924	0.01983	0.466	0.64121	1.00928					
		LOC	-1.63032	1.20333	-1.355	0.17547	0.19587					

	Sand*LOC	0.01173	0.01974	0.594	0.55236	1.0118					
SAND x pH	Intercept	-2.91475	8.41663	-0.346	0.72911	0.05422	53	67	104	110	0.04
	Sand	-0.10303	0.16964	-0.607	0.54363	0.9021					
	pH	0.26892	1.06244	0.253	0.80018	1.30854					
	Sand*pH	0.01577	0.02189	0.721	0.47118	1.0159					
SAND x PR	Intercept	-6.07324	1.94627	-3.12	0.00181	0.0023	77	62	77	81	0.19
	Sand	0.09814	0.03913	2.508	0.01213	1.10312					
	PR	2.1761	0.79304	2.744	0.00607	8.81184					
	Sand*PR	-0.03339	0.0154	-2.168	0.03017	0.96716					
SAND	Intercept	-18.2162	6.97015	-2.613	0.00896	0	75	77	63	66	0.32
SOM	pH	2.07906	0.85294	2.438	0.01479	7.99693					
LOC	PR	0.89247	0.27161	3.286	0.00102	2.44115					
pH	LOC	-0.94889	0.60832	-1.56	0.11879	0.38717					
PR											
SILT x SOM	Intercept	1.21695	0.92692	1.313	0.18922	3.37688	77	46	89	95	0.06
	Silt	-0.05004	0.0243	-2.059	0.03947	0.95119					
	OM	-0.33316	0.3323	-1.003	0.31606	0.71666					
	Silt*OM	0.01598	0.00969	1.649	0.09905	1.01611					
SILT x LOC	Intercept	3.3993	1.04286	3.26	0.00112	29.94327	81	63	103	110	0.2
	Silt	-0.05796	0.02368	-2.448	0.01437	0.94368					
	LOC	-1.63984	0.87284	-1.879	0.06028	0.19401					
	Silt*LOC	0.01314	0.02097	0.627	0.53093	1.01322					
SILT x pH	Intercept	-14.4857	8.51993	-1.7	0.08909	0	67	65	104	110	0.11
	Silt	0.11254	0.21335	0.528	0.59784	1.11912					
	pH	2.08146	1.11066	1.874	0.06092	8.01616					
	Silt*pH	-0.02032	0.02711	-0.75	0.45339	0.97988					
SILT x PR	Intercept	1.38983	1.40587	0.989	0.32286	4.01416	81	62	77	81	0.21
	Silt	-0.07461	0.03794	-1.966	0.04925	0.9281					
	PR	-0.04448	0.55517	-0.08	0.93615	0.9565					
	Silt*PR	0.01709	0.01653	1.034	0.30126	1.01724					
SILT	Intercept	-18.2162	6.97015	-2.613	0.00896	0	75	77	63	66	0.32
SOM	pH	2.07906	0.85294	2.438	0.01479	7.99693					
LOC	PR	0.89247	0.27161	3.286	0.00102	2.44115					
pH	LOC	-0.94889	0.60832	-1.56	0.11879	0.38717					
PR											
CLAY x SOM	Intercept	-2.06345	0.7009	-2.944	0.00324	0.12702	74	63	89	95	0.08
	Clay	0.08607	0.03414	2.521	0.0117	1.08988					
	OM	0.62277	0.27337	2.278	0.02272	1.86409					
	Clay*OM	-0.02151	0.01024	-2.102	0.03559	0.97872					
CLAY x LOC	Intercept	-0.6987	0.63888	-1.094	0.27411	0.49723	79	62	103	110	0.18

		Clay	0.14465	0.05436	2.661	0.00779	1.15564					
		LOC	0.7053	0.73202	0.963	0.3353	2.02444					
		Clay*LOC	-0.14256	0.06188	-2.304	0.02123	0.86714					
	CLAY x pH	Intercept	-0.47055	5.8022	-0.081	0.93536	0.62466	40	75	102	110	0.05
		Clay	-0.2426	0.29483	-0.823	0.4106	0.78459					
		pH	-0.01285	0.74623	-0.017	0.98626	0.98723					
		Clay*pH	0.03482	0.03783	0.92	0.35735	1.03544					
	CLAY x PR	Intercept	-1.86481	1.11639	-1.67	0.09484	0.15493	53	82	77	81	0.15
		Clay	0.03248	0.06171	0.526	0.59866	1.03301					
		PR	0.47506	0.44249	1.074	0.283	1.60812					
		Clay*PR	0.00339	0.02069	0.164	0.86975	1.0034					
	CLAY	Intercept	-18.2162	6.97015	-2.613	0.00896	0	75	77	63	66	0.32
	SOM	pH	2.07906	0.85294	2.438	0.01479	7.99693					
	LOC	PR	0.89247	0.27161	3.286	0.00102	2.44115					
	pH	LOC	-0.94889	0.60832	-1.56	0.11879	0.38717					
	PR											
ERO	SAND x SOM	Intercept	0.49147	0.94346	0.521	0.60242	1.63472	47	67	88	95	0.02
		Sand	-0.00261	0.01941	-0.134	0.89303	0.99739					
		OM	-0.03677	0.29219	-0.126	0.89985	0.96389					
		Sand*OM	-0.0024	0.00621	-0.386	0.69965	0.99761					
	SAND x LOC	Intercept	0.10669	0.81483	0.131	0.89582	1.11259	78	47	103	110	0.06
		Sand	-0.01724	0.01715	-1.005	0.31485	0.98291					
		LOC	0.13612	0.75338	0.181	0.85662	1.14582					
		Sand*LOC	0.01083	0.01574	0.688	0.49122	1.01089					
	SAND x pH	Intercept	-5.30065	8.65918	-0.612	0.54044	0.00499	72	50	103	110	0.01
		Sand	0.14645	0.16629	0.881	0.37848	1.15772					
		pH	0.70202	1.09158	0.643	0.52015	2.01783					
		Sand*pH	-0.01946	0.02125	-0.916	0.35988	0.98073					
	SAND x PR	Intercept	2.21417	1.40617	1.575	0.11535	9.15377	56	57	77	81	0.06
		Sand	-0.02623	0.02942	-0.892	0.37266	0.97411					
		PR	-0.58687	0.43497	-1.349	0.17727	0.55606					
		Sand*PR	0.00509	0.00944	0.539	0.58964	1.00511					
	SILT x SOM	Intercept	-0.19935	0.93073	-0.214	0.8304	0.81926	56	49	88	95	0.03
		Silt	0.01288	0.02393	0.538	0.59048	1.01296					
		OM	-0.18983	0.32943	-0.576	0.56447	0.8271					
		Silt*OM	0.00268	0.00931	0.288	0.77325	1.00269					
	SILT x LOC	Intercept	-1.98288	0.85022	-2.332	0.01969	0.13767	75	55	103	110	0.08
		Silt	0.03475	0.02047	1.698	0.08959	1.03536					
		LOC	1.14331	0.77029	1.484	0.13774	3.13715					
		Silt*LOC	-0.01225	0.01701	-0.72	0.47143	0.98783					

	SILT x pH	Intercept	1.13925	7.51849	0.152	0.87956	3.12441	69	50	103	110	0.02
		Silt	0.05848	0.20842	0.281	0.77903	1.06022					
		pH	-0.2483	0.96408	-0.258	0.79675	0.78012					
		Silt*pH	-0.00454	0.02615	-0.174	0.86222	0.99547					
	SILT x PR	Intercept	-0.46487	1.31343	-0.354	0.72339	0.62822	56	54	77	81	0.07
		Silt	0.04025	0.0365	1.103	0.27014	1.04107					
		PR	0.03646	0.48087	0.076	0.93956	1.03714					
		Silt*PR	-0.01144	0.01499	-0.763	0.44531	0.98862					
	CLAY x SOM	Intercept	0.84218	0.66571	1.265	0.20584	2.32142	59	54	88	95	0.02
		Clay	-0.02797	0.03232	-0.865	0.38684	0.97242					
		OM	-0.25791	0.25044	-1.03	0.3031	0.77267					
		Clay*OM	0.00696	0.00979	0.711	0.47729	1.00698					
	CLAY x LOC	Intercept	-0.57074	0.58308	-0.979	0.32766	0.56511	75	42	103	110	0.07
		Clay	-0.00039	0.03028	-0.013	0.98978	0.99961					
		LOC	1.01623	0.68929	1.474	0.1404	2.76276					
		Clay*LOC	-0.02262	0.03416	-0.662	0.50792	0.97764					
	CLAY x pH	Intercept	8.19846	6.29168	1.303	0.19255	3635.354	56	53	102	110	0.03
		Clay	-0.42545	0.29272	-1.453	0.1461	0.65348					
		pH	-0.9954	0.8021	-1.241	0.21461	0.36958					
		Clay*pH	0.05163	0.03723	1.387	0.16557	1.05298					
	CLAY x PR	Intercept	1.73378	1.10122	1.574	0.11539	5.66204	64	59	77	81	0.06
		Clay	-0.031	0.05117	-0.606	0.54457	0.96947					
		PR	-0.65014	0.40283	-1.614	0.10654	0.52197					
		Clay*PR	0.01126	0.01502	0.75	0.45322	1.01133					
	CLAY	Intercept	0.83743	0.79334	1.056	0.29116	2.31043	67	62	63	66	0.13
	SOM	LOC	0.95661	0.70593	1.355	0.17539	2.60285					
	LOC	PR	-0.32631	0.2081	-1.568	0.11688	0.72158					
	pH	OM	-0.31343	0.28305	-1.107	0.26816	0.73094					
	PR											
PON	SAND x SOM	Intercept	-1.58079	0.94922	-1.665	0.09584	0.20581	66	59	84	90	0.05
		Sand	0.02136	0.02043	1.045	0.29591	1.02159					
		OM	0.36595	0.33469	1.093	0.27422	1.44188					
		Sand*OM	-0.00248	0.0074	-0.336	0.73722	0.99752					
	SAND x LOC	Intercept	-1.50696	0.87346	-1.725	0.08448	0.22158	72	51	99	105	0.06
		Sand	0.02369	0.01797	1.318	0.18735	1.02397					
		LOC	0.70903	0.87025	0.815	0.41522	2.03202					
		Sand*LOC	-0.00424	0.01614	-0.263	0.79278	0.99577					
	SAND x pH	Intercept	6.6272	11.38986	0.582	0.56067	755.364	86	68	98	105	0.18
		Sand	0.2699	0.25581	1.055	0.29138	1.30984					
		pH	-0.8979	1.40765	-0.638	0.52356	0.40743					

	Sand*pH	-0.03261	0.03172	-1.028	0.30398	0.96792					
SAND x PR	Intercept	5.85554	2.56215	2.285	0.02229	349.1624	79	79	72	76	0.33
	Sand	-0.07016	0.0525	-1.336	0.18145	0.93224					
	PR	-3.09268	1.11465	-2.775	0.00553	0.04538					
	Sand*PR	0.0463	0.02204	2.101	0.03564	1.04739					
SAND	Intercept	9.87274	3.45971	2.854	0.00432	10000+	76	78	58	61	0.35
SOM	Sand	-0.17333	0.07521	-2.305	0.02119	0.84086					
LOC	PR	-4.45249	1.42865	-3.117	0.00183	0.01165					
pH	Sand*PR	0.07871	0.02892	2.721	0.0065	1.08189					
PR											
SILT x SOM	Intercept	-1.99114	1.01687	-1.958	0.05022	0.13654	72	66	84	90	0.08
	Silt	0.02926	0.02633	1.111	0.26641	1.02969					
	OM	0.2006	0.40054	0.501	0.61649	1.22214					
	Silt*OM	0.00373	0.01213	0.307	0.75853	1.00374					
SILT x LOC	Intercept	-1.32353	0.78827	-1.679	0.09314	0.26619	72	51	99	105	0.05
	Silt	0.0227	0.0204	1.113	0.26587	1.02296					
	LOC	0.66823	0.70718	0.945	0.3447	1.95078					
	Silt*LOC	-0.00467	0.01714	-0.272	0.78529	0.99534					
SILT x pH	Intercept	47.24921	14.58127	3.24	0.00119	10000+	79	79	98	105	0.28
	Silt	-0.64264	0.34345	-1.871	0.06133	0.5259					
	pH	-6.15202	1.83391	-3.355	0.00079	0.00213					
	Silt*pH	0.08562	0.04279	2.001	0.0454	1.08939					
SILT x PR	Intercept	0.36367	1.59783	0.228	0.81996	1.43859	66	74	72	76	0.21
	Silt	0.05845	0.04484	1.304	0.19234	1.0602					
	PR	-0.05929	0.56829	-0.104	0.9169	0.94243					
	Silt*PR	-0.02386	0.01803	-1.323	0.18567	0.97642					
SILT	Intercept	11.5392	6.74308	1.711	0.08703	10000+	66	75	58	61	0.24
SOM	pH	-1.40257	0.82766	-1.695	0.09015	0.24596					
LOC	PR	-0.54301	0.26906	-2.018	0.04357	0.581					
pH	Silt	0.03383	0.02248	1.505	0.13239	1.0344					
PR											
CLAY x SOM	Intercept	2.0608	1.07719	1.913	0.05573	7.85224	76	90	84	90	0.34
	Clay	-0.21679	0.05728	-3.785	0.00015	0.8051					
	OM	0.17029	0.50063	0.34	0.73374	1.18565					
	Clay*OM	0.03147	0.01796	1.752	0.0798	1.03197					
CLAY x LOC	Intercept	1.15427	0.8146	1.417	0.15649	3.17169	72	76	99	105	0.18
	Clay	-0.08581	0.05063	-1.695	0.0901	0.91777					
	LOC	0.34539	0.93158	0.371	0.71082	1.41254					
	Clay*LOC	0.01903	0.05989	0.318	0.75069	1.01921					
CLAY x pH	Intercept	0.31527	10.81097	0.029	0.97674	1.37063	76	86	96	105	0.4

		Clay	1.29301	0.58789	2.199	0.02785	3.64374					
		pH	0.21046	1.35968	0.155	0.87699	1.23424					
		Clay*pH	-0.17502	0.07473	-2.342	0.01918	0.83944					
	CLAY x PR	Intercept	4.35812	2.07282	2.103	0.03551	78.10989	76	83	72	76	0.45
		Clay	-0.1738	0.09983	-1.741	0.08167	0.84046					
		PR	-0.63595	0.72631	-0.876	0.38125	0.52943					
		Clay*PR	0.0085	0.03133	0.271	0.78615	1.00854					
	CLAY	Intercept	3.16006	0.98706	3.201	0.00137	23.57205	83	91	58	61	0.54
	SOM	Clay	-0.23366	0.06711	-3.482	0.0005	0.79163					
	LOC	OM	1.08639	0.49125	2.211	0.027	2.96354					
	pH	PR	-0.58271	0.36281	-1.606	0.10825	0.55838					
	PR											

Table 22. Selected models (darker green background), alternative models with similar R_L^2, and complementary models. **Acid group**. %CP percentage of correct predictions. AU ROC (Area under the receiver operating characteristic curve). SE1: Standard error of AU ROC (negative outcome). SE2: Standard error of AUROC (positive outcome).

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR	GCI	Intercept	-3.52835	1.24601	-2.832	0.00463	0.02935	70	65	117	125	0.08
Interaction	T	Tmy	0.24765	0.10182	2.432	0.015	1.28101				**AU ROC**	**0.67**
	LOC	GCI	0.06775	0.02821	2.401	0.01633	1.0701				**SE 1**	**0.04932**
		LOC	0.25819	0.09248	2.792	0.00524	1.29459				**SE 2**	**0.04777**
		Tmy*GCI	-0.00522	0.00216	-2.423	0.01541	0.99479					
STR		Intercept	-0.63794	0.49516	-1.288	0.19762	0.52838	81	35	55	131	0.07
1-way		GCI	0.01951	0.00979	1.992	0.04632	1.01971				**AU ROC**	0.54
		Tmy	-0.00185	0.04232	-0.044	0.96518	0.99815				**SE 1**	0.05146
											SE 2	0.05095
STR	GCI	Intercept	-2.16753	1.05012	-2.064	0.03901	0.11446	75	50	55	131	0.13
Interaction	T	Tmy	0.13514	0.09005	1.501	0.13342	1.1447				**AU ROC**	0.58
		GCI	0.05797	0.02639	2.197	0.02804	1.05968				**SE 1**	0.0511
		Tmy*GCI	-0.00324	0.00194	-1.67	0.09489	0.99677				**SE 2**	0.05016
STR	T	Intercept	7.14539	2.56762	2.783	0.00539	1268.245	66	57	39	131	0.20
Interaction	NPP	Tmy	-0.65446	0.22274	-2.938	0.0033	0.51972				**AU ROC**	0.67
		NPP_lim	-0.0062	0.00249	-2.494	0.01263	0.99382				**SE 1**	0.04871
		Tmy*NPP_lim	0.00052	0.00017	3.108	0.00189	1.00052				**SE 2**	0.04674
STR	T	Intercept	-0.39463	0.8448	-0.467	0.64041	0.67393	57	41	39	131	0.00
1-way	NPP	NPP_lim	0.00045	0.00114	0.392	0.69513	1.00045				**AU ROC**	0.5
		Tmy	-0.01405	0.07505	-0.187	0.85147	0.98605				**SE 1**	0.05145
											SE 2	0.05142
POR		Intercept	4.60889	2.14515	2.149	0.03167	100.3728	88	81	54	58	0.31
1-way		PETmy	-0.00752	0.00296	-2.54	0.01108	0.9925				**AU ROC**	**0.87**
		OM	1.42841	0.52354	2.728	0.00636	4.17207				**SE 1**	**0.05451**

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		PR	-0.68347	0.41595	-1.643	0.10035	0.50486				**SE 2**	**0.05067**
POR		Intercept	-4.12079	1.40844	-2.926	0.00344	0.01623	78	45	52	131	0.12
Interaction	GCI	GCI	0.10899	0.0422	2.582	0.00981	1.11515				**AU ROC**	0.68
	AI	AI	3.7311	1.26456	2.951	0.00317	41.72518				**SE 1**	0.0465
		GCI*AI	-0.10236	0.03888	-2.633	0.00846	0.9027				**SE 2**	0.04677
POR		Intercept	-6.86947	2.53556	-2.709	0.00674	0.00104	61	64	70	78	0.16
Interaction		GCI	0.13048	0.0497	2.625	0.00865	1.13938				**AU ROC**	0.76
		GCI*AI	-0.14031	0.04857	-2.889	0.00387	0.86909				**SE 1**	0.05461
		OM	0.49023	0.20989	2.336	0.01951	1.63269				**SE 2**	0.05574
		AI	6.07841	2.41685	2.515	0.0119	436.33625					
STA		Intercept	-3.69065	0.87375	-4.224	0.00002	0.02496	72	77	92	96	0.20
		Silt	0.03354	0.0134	2.503	0.01231	1.03411				**AU ROC**	**0.8**
		PR	0.63395	0.27627	2.295	0.02175	1.88504				**SE 1**	**0.5003**
		AI	0.6268	0.47119	1.33	0.18344	1.87161				**SE 2**	**0.4429**
PAN		Intercept	0.23819	0.64157	0.371	0.71044	1.26895	72	70	105	111	0.13
		AI	1.5971	0.47465	3.365	0.00077	4.93869				**AU ROC**	**0.75**
		Silt	-0.04696	0.01529	-3.071	0.00213	0.95412				**SE 1**	**0.04742**
		LOC	-0.15887	0.08597	-1.848	0.06459	0.8531				**SE 2**	**0.04577**
PAN		Intercept	-3.00284	1.77506	-1.692	0.09071	0.04965	65	59	112	117	0.08
1-way		AI	1.11694	0.43571	2.563	0.01036	3.05548				**AU ROC**	**0.69**
		Silt	-0.02503	0.01245	-2.01	0.04446	0.97528				**SE 1**	**0.04995**
		pH	0.41917	0.30513	1.374	0.16953	1.52069				**SE 2**	**0.04827**
		Intercept	-7.86475	2.58293	-3.045	0.00233	0.00038	58	68	36	131	0.14
		Tmy	0.48165	0.21256	2.266	0.02345	1.61875				**AU ROC**	**0.63**
		NPP_lim	0.00761	0.00246	3.094	0.00197	1.00764				**SE 1**	**0.04987**
		Tmy*NPP_lim	-0.00047	0.00017	-2.822	0.00477	0.99953				**SE 2**	**0.04849**
COL		Intercept	2.51794	1.21969	2.064	0.03898	12.40304	80	76	106	111	0.39
		Clay	-0.06814	0.03131	-2.176	0.02954	0.93413				**AU ROC**	**0.89**
		LOC	-0.34145	0.10573	-3.229	0.00124	0.71074				**SE 1**	**0.03306**
		Silt	0.04093	0.01576	2.597	0.00941	1.04178				**SE 2**	**0.03601**
		GCI	-0.07547	0.03978	-1.897	0.05779	0.92731					

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
COL		Intercept	-4.60301	2.49826	-1.842	0.0654	0.01002	42	76	39	131	0.17
Interaction		Tmy	0.31446	0.21157	1.486	0.1372	1.36951				**AU ROC**	0.74
		NPP_lim	0.0051	0.0024	2.128	0.03332	1.00512				**SE 1**	0.04421
		Tmy*NPP_lim	-0.00036	0.00017	-2.151	0.03147	0.99964				**SE 2**	0.04296
EAR	GCI	Intercept	-14.5888	3.39553	-4.296	0.00002	0	89	77	111	117	0.44
Interaction	T	GCI	0.10028	0.05824	1.722	0.08512	1.10548				**AU ROC**	**0.9**
	Sand	Tmy	1.55278	0.31773	4.887	0	4.72457				**SE 1**	**0.02815**
		Sand	0.07652	0.02049	3.735	0.00019	1.07952				**SE 2**	**0.03449**
		GCIxT	-0.02054	0.00553	-3.713	0.00021	0.97967					
EAR	GCI	Intercept	-7.68367	2.42993	-3.162	0.00157	0.00046	87	75	42	131	0.54
Interaction	T	GCI	0.0721	0.05693	1.266	0.20534	1.07477				**AU ROC**	**0.87**
		Tmy	1.17498	0.27015	4.349	0.00001	3.23807				**SE 1**	**0.03141**
		GCI*Tmy	-0.01777	0.00541	-3.284	0.00102	0.98239				**SE 2**	**0.03728**
EAR	GCI	Intercept	0.49819	0.66874	0.745	0.45629	1.64574	80	75	42	131	0.46
1-way	T	GCI	-0.18191	0.04161	-4.372	0.00001	0.83368				**AU ROC**	**0.84**
		Tmy	0.54906	0.13292	4.131	0.00004	1.73162				**SE 1**	**0.03633**
											SE 2	**0.0434**
EAR	T	Intercept	-20.3415	4.31306	-4.716	0	0	75	90	29	131	0.72
Interaction	P	Tmy	2.63107	0.51449	5.114	0	13.88862				**AU ROC**	**0.91**
		Pmy	0.01781	0.00479	3.715	0.0002	1.01797				**SE 1**	**0.03003**
		Tmy*Pmy	-0.00225	0.00053	-4.256	0.00002	0.99775				**SE 2**	**0.0303**
EAR	T	Intercept	-0.20108	0.51977	-0.387	0.69885	0.81784	85	62	29	131	0.19
1-way	P	Tmy	0.27202	0.06332	4.296	0.00002	1.31261				**AU ROC**	**0.76**
		Pmy	-0.00298	0.00088	-3.394	0.00069	0.99703				**SE 1**	**0.04148**
											SE 2	**0.04308**
ERO		Intercept	-3.99222	1.0201	-3.914	0.00009	0.01846	77	66	104	117	0.22
		Pmy	0.0041	0.0014	2.922	0.00347	1.00411				**AU ROC**	**0.8**
		Clay	0.09586	0.03619	2.648	0.00809	1.1006				**SE 1**	**0.04413**
											SE 2	**0.05486**
ERO		Intercept	5.98488	3.29257	1.818	0.06911	397.37542	83	52	34	131	0.20

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
Interaction		AI	-6.71562	3.11783	-2.154	0.03124	0.00121				**AU ROC**	**0.73**
		Tmy	-0.80983	0.35191	-2.301	0.02138	0.44493				**SE 1**	**0.04797**
		AI*Tmy	0.85933	0.33182	2.59	0.0096	2.36157				**SE 2**	**0.05847**
ERO		Intercept	QS					95	68	104	117	0.33
Interaction		Tmy	QS								**AU ROC**	**0.87**
		AI*Tmy	QS								**SE 1**	**0.03825**
		Clay	QS								**SE 2**	**0.04772**
		AI	QS									
PON	GCI	Intercept	17.35498	4.51803	3.841	0.00012	10000+	82	88	87	98	0.42
Interaction	AI	AI	-19.3623	4.90345	-3.949	0.00008	0				**AU ROC**	**0.87**
	CLAY	GCI*AI	0.67869	0.16468	4.121	0.00004	1.9713				**SE 1**	**0.03905**
		Clay	-0.11875	0.04042	-2.938	0.0033	0.88803				**SE 2**	**0.07101**
		GCI	-0.5256	0.13161	-3.994	0.00007	0.5912					
PON		Intercept	-1.73417	0.8543	-2.03	0.04236	0.17655	71	48	40	112	0.04
1-way		GCI	0.03763	0.02386	1.577	0.11471	1.03835				**AU ROC**	**0.66**
		AI	0.6508	0.56756	1.147	0.25152	1.91707				**SE 1**	**0.06142**
											SE 2	**0.07023**
PON		Intercept	13.0077	3.54629	3.668	0.00024	10000+	67	85	40	112	0.30
Interaction		GCI	-0.43343	0.10791	-4.017	0.00006	0.64828				**AU ROC**	**0.77**
		AI	-14.4624	3.66017	-3.951	0.00008	0				**SE 1**	**0.05024**
		GCI*AI	0.51135	0.12022	4.254	0.00002	1.66755				**SE 2**	**0.0638**
PON		Intercept	-12.37369	5.13423	-2.41	0.01595	0	76	93	87	98	0.48
Interaction		GCI	0.51975	0.18691	2.781	0.00542	1.6816				**AU ROC**	**0.87**
		Clay	0.75945	0.29592	2.566	0.01028	2.1371				**SE 1**	**0.03832**
		GCI*Clay	-0.03059	0.01042	-3	0	1				**SE 2**	**0.07749**

Table 23. Selected models (darker green background), alternative models with similar R_L^2, and complementary models. **Alkaline group**. %CP percentage of correct predictions. AU ROC (Area under the receiver operating characteristic curve). SE1: Standard error of AU ROC (negative outcome). SE2: Standard error of AUROC (positive outcome).

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STR		Intercept	13.09208	4.30559	3.041	0.00236	10000+	64	63	114	122	0.17
		Pmy	-0.00289	0.00099	-2.912	0.00359	0.99712				**AU ROC**	**0.74**
		LOC	0.80768	0.30994	2.606	0.00916	2.2427				**SE 1**	**0.05084**
		pH	-1.57471	0.5296	-2.973	0.00295	0.20707				**SE 2**	**0.0442**
POR		Intercept	6.49884	4.82295	1.347	0.17782	664.3727	77	65	89	95	0.24
		LOC	0.4486	0.22763	1.971	0.04875	1.56613				**AU ROC**	**0.8**
		pH	-0.95234	0.61847	-1.54	0.1236	0.38584				**SE 1**	**0.05152**
		OM	0.49765	0.16168	3.078	0.00208	1.64485				**SE 2**	**0.04411**
		Tmy	-0.0809	0.06027	-1.342	0.17948	0.92228					
POR		Intercept	0.79197	0.62152	1.274	0.20258	2.20774	63	57	31	122	0.14
1-way		Tmy	-0.14198	0.07343	-1.934	0.05317	0.86764				**AU ROC**	**0.63**
		PETmy	0.00111	0.00114	0.972	0.33107	1.00111				**SE 1**	**0.05377**
											SE 2	**0.0513**
POR		Intercept	11.69939	3.59724	3.252	0.00114	10000+	56	64	70	122	0.14
1-way		pH	-1.5113	0.46737	-3.234	0.00122	0.22062				**AU ROC**	**0.68**
											SE 1	**0.05184**
											SE 2	**0.0483**
POR		Intercept	8.86965	3.0845	2.876	0.00403	7112.762	67	61	31	122	0.36
Interaction		PETmy	-0.00984	0.00422	-2.333	0.01963	0.99021				**AU ROC**	**0.67**
		Tmy	-0.60456	0.1882	-3.212	0.00132	0.54631				**SE 1**	**0.05223**
		PETmy*Tmy	0.00062	0.00023	2.711	0.00671	1.00062				**SE 2**	**0.04887**
POR		Intercept	12.56869	4.16586	3.017	0.00255	10000+	67	61	92	122	0.13
Interaction		Tmy	-0.40961	0.23026	-1.779	0.07526	0.66391				**AU ROC**	**0.7**
		PETmy*Tmy	0.00044	0.00026	1.699	0.08934	1.00044				**SE 1**	**0.05124**
		pH	-0.8099	0.60234	-1.345	0.17876	0.4449				**SE 2**	**0.04747**
		PETmy	-0.00724	0.00456	-1.589	0.11213	0.99278					

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
STA		Intercept	-5.22783	5.35967	-0.975	0.32936	0.00537	81	79	87	95	0.28
		NPP_lim	0.0185	0.00518	3.569	0.00036	1.01867				**AU ROC**	**0.83**
		PETmy	0.01467	0.00477	3.077	0.00209	1.01478				**SE 1**	**0.05171**
		NPP_lim*PETmy	-0.00002	0.00001	-3.206	0.00135	0.99998				**SE 2**	**0.04146**
		OM	0.64755	0.21915	2.955	0.00313	1.91085					
		pH	-1.74462	0.69733	-2.502	0.01235	0.17471					
STA		Intercept	3.4431	4.5434	0.758	0.44856	31.28378	78	64	85	97	0.13
		NPP_lim	0.0016	0.00088	1.83	0.06728	1.00161				**AU ROC**	**0.77**
		OM	0.31924	0.13243	2.411	0.01592	1.37608				**SE 1**	**0.0576**
		pH	-0.74827	0.55204	-1.355	0.17527	0.47319				**SE 2**	**0.04907**
STA		Intercept	-11.4614	3.42446	-3.347	0.00082	0.00001	77	73	33	122	0.35
Interaction		NPP_lim	0.00966	0.00308	3.134	0.00173	1.0097				**AU ROC**	**0.75**
		PETmy	0.00816	0.00297	2.742	0.00611	1.00819				**SE 1**	**0.05001**
		NPP_lim*PETmy	-0.00001	0	-2.386	0.01703	0.99999				**SE 2**	**0.04421**
STA		Intercept	-3.94079	1.08405	-3.635	0.00028	0.01943	77	73	33	122	0.26
1-way		NPP_lim	0.00262	0.00069	3.815	0.00014	1.00262				**AU ROC**	**0.74**
		PETmy	0.0013	0.00067	1.954	0.05071	1.0013				**SE 1**	**0.05031**
											SE 2	**0.04459**
PAN		Intercept	8.64569	5.11912	1.689	0.09124	5685.578	71	76	89	95	0.25
		pH	-1.49861	0.62674	-2.391	0.0168	0.22344				**AU ROC**	**0.81**
		OM	0.49582	0.1557	3.184	0.00145	1.64185				**SE 1**	**0.05303**
		Sand	0.03467	0.01575	2.201	0.02773	1.03528				**SE 2**	**0.04329**
PAN		Intercept	0.22573	0.61649	0.366	0.71425	1.25324	48	73	27	122	0.06
1-way		Tmy	-0.14598	0.07448	-1.96	0.04998	0.86417				**AU ROC**	**0.61**
		PETmy	0.00173	0.00115	1.506	0.13212	1.00173				**SE 1**	**0.05388**
											SE 2	**0.05192**
PAN		Intercept	12.09573	3.36901	3.59	0.00033	10000+	74	73	27	122	0.30
Interaction		PETmy	-0.01442	0.00463	-3.113	0.00185	0.98568				**AU ROC**	**0.74**
		Tmy	-0.8204	0.20262	-4.049	0.00005	0.44026				**SE 1**	**0.04833**
		PETmy*Tmy	0.00091	0.00025	3.637	0.00028	1.00091				**SE 2**	**0.0441**
PAN		Intercept	18.10185	4.06797	4.45	0.00001	10000+	62	73	70	122	0.29

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
1-way		pH	-2.34475	0.53122	-4.414	0.00001	0.09587				**AU ROC**	**0.77**
											SE 1	**0.04663**
											SE 2	**0.04206**
PAN		Intercept	21.12372	4.82469	4.378	0.00001	10000+	69	73	89	122	0.23
Interaction		PETmy	-0.00909	0.0049	-1.854	0.06377	0.99095				**AU ROC**	**0.78**
		PETmy*Tmy	0.00053	0.00027	1.954	0.05075	1.00053				**SE 1**	**0.04567**
		pH	-1.88009	0.66765	-2.816	0.00486	0.15258				**SE 2**	**0.04095**
		Tmy	-0.39648	0.23526	-1.685	0.09193	0.67268					
COL		Intercept	13.82683	4.23873	3.262	0.00111	10000+	83	81	85	95	0.40
		Tmy	-1.08255	0.28952	-3.739	0.00018	0.33873				**AU ROC**	**0.89**
		PETmy*Tmy	0.00107	0.00031	3.42	0.00063	1.00107				**SE 1**	**0.04674**
		OM	0.79356	0.23034	3.445	0.00057	2.21125				**SE 2**	**0.03252**
		PETmy	-0.01771	0.00608	-2.91	0.00361	0.98245					
COL		Intercept	19.90441	5.75743	3.457	0.00055	10000+	81	77	90	95	0.34
		OM	0.80136	0.23148	3.462	0.00054	2.22858				**AU ROC**	**0.86**
		pH	-2.566	0.74909	-3.426	0.00061	0.07684				**SE 1**	**0.04919**
		PETmy	-0.00243	0.00123	-1.975	0.0483	0.99757				**SE 2**	**0.03817**
COL		Intercept	0.09651	0.65759	0.147	0.88332	1.10132	49	77	28	122	0.12
1-way		Tmy	-0.23097	0.09098	-2.539	0.01112	0.79376				**AU ROC**	**0.64**
		PETmy	0.00294	0.00139	2.113	0.03463	1.00295				**SE 1**	**0.05753**
											SE 2	**0.05319**
COL		Intercept	14.11632	3.65186	3.866	0.00011	10000+	71	80	28	122	0.45
Interaction		PETmy	-0.01617	0.00515	-3.138	0.0017	0.98396				**AU ROC**	**0.78**
		Tmy	-1.04467	0.23049	-4.532	0.00001	0.35181				**SE 1**	**0.05039**
		PETmy*Tmy	0.00109	0.00028	3.93	0.00008	1.00109				**SE 2**	**0.04224**
EAR		Intercept	2.38052	1.29584	1.837	0.0662	10.81052	79	76	77	81	0.29
		AI	-1.41965	0.65932	-2.153	0.0313	0.2418				**AU ROC**	**0.83**
		LOC	-0.8275	0.49112	-1.685	0.092	0.43714				**SE 1**	**0.052**
		Silt	-0.04398	0.01663	-2.644	0.00818	0.95698				**SE 2**	**0.04491**
		PR	0.41356	0.23275	1.777	0.0756	1.51219					
EAR		Intercept	-0.92246	0.60863	-1.516	0.12961	0.39754	38	65	26	122	0.05
1-way		PETmy	0.00151	0.00102	1.479	0.13919	1.00151				**AU ROC**	**0.6**

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
		Tmy	-0.04372	0.06522	-0.67	0.50265	0.95722				**SE 1**	**0.05146**
											SE 2	**0.051**
EAR		Intercept	-10.1536	3.23045	-3.143	0.00167	0.00004	75	49	26	122	0.20
Interaction		PETmy	0.0141	0.00442	3.192	0.00141	1.0142				**AU ROC**	**0.68**
		Tmy	0.47359	0.188	2.519	0.01176	1.60575				**SE 1**	**0.04854**
		PETmy*Tmy	-0.0007	0.00024	-2.964	0.00304	0.9993				**SE 2**	**0.04773**
ERO		Intercept	-6.77838	2.24621	-3.018	0.00255	0.00114	78	61	101	110	0.22
Interaction		AI	2.70081	0.95955	2.815	0.00488	14.89183				**AU ROC**	**0.82**
		Silt	0.16633	0.06014	2.766	0.00568	1.18096				**SE 1**	**0.0414**
		sandxsilt	-0.00363	0.00133	-2.719	0.00655	0.99638				**SE 2**	**0.0467**
		Sand	0.09868	0.04104	2.405	0.01619	1.10372					
ERO		Intercept	-1.55239	0.39623	-3.918	0.00009	0.21174	79	54	30	122	0.31
		AI	2.51704	0.71308	3.53	0.00042	12.39187				**AU ROC**	**0.71**
											SE 1	**0.04778**
											SE 2	**0.05294**
ERO		Intercept	-2.03069	1.22671	-1.655	0.09784	0.13124	58	41	101	110	0.03
1-way		Silt	0.0351	0.01885	1.863	0.06253	1.03572				**AU ROC**	**0.58**
		Sand	0.01786	0.01498	1.192	0.23314	1.01802				**SE 1**	**0.05708**
											SE 2	**0.0591**
ERO		Intercept	-6.46354	2.08552	-3.099	0.00194	0.00156	75	51	101	110	0.13
Interaction		Silt	0.17753	0.05607	3.166	0.00154	1.19426				**AU ROC**	**0.7**
		Sand	0.11878	0.0389	3.054	0.00226	1.12612				**SE 1**	**0.05154**
		Silt*Sand	-0.00368	0.00124	-2.963	0.00305	0.99633				**SE 2**	**0.05546**
PON		Intercept	18.0547	7.55448	2.39	0.01685	10000+	86	76	96	105	0.40
		Pmy	0.00473	0.00231	2.051	0.04023	1.00474				**AU ROC**	**0.89**
		Clay	-0.09005	0.02431	-3.704	0.00021	0.91388				**SE 1**	**0.03343**
		pH	-2.31244	0.86402	-2.676	0.00744	0.09902				**SE 2**	**0.04349**
PON		Intercept	-6.22818	1.832	-3.4	0.00067	0.00197	88	54	25	117	0.23
1-way		AI	4.75346	1.44849	3.282	0.00103	115.98478				**AU ROC**	**0.83**
		Tmy	0.24879	0.08398	2.962	0.00305	1.28247				**SE 1**	**0.03882**
											SE 2	**0.04664**

								1	2			
VISUAL INDICATOR	INTERACTION	TERM	β_i	SE β_i	Wald Z-value	Wald p-value	Odds Ratio	% CP	% CP	Unique Rows	Rows Used	R-squared
PON		Intercept	-21.1104	4.48241	-4.71	0	0	85	82	25	117	0.50
Interaction		AI	26.43616	6.21016	4.257	0.00002	10000+				**AU ROC**	**0.86**
		Tmy	1.16708	0.25787	4.526	0.00001	3.21258				**SE 1**	**0.03531**
		AI*Tmy	-1.4318	0.36744	-3.897	0.0001	0.23888				**SE 2**	**0.04372**
PON		Intercept	-6.4504	8.45559	-0.763	0.44555	0.00158	82	81	91	117	0.37
		AI	20.84329	6.45934	3.227	0.00125	10000+				**AU ROC**	**0.87**
		Tmy	1.00194	0.25973	3.858	0.00011	2.72357				**SE 1**	**0.03411**
		pH	-1.44817	0.76212	-1.9	0.05741	0.235				**SE 2**	**0.04447**
		AI*Tmy	-1.12167	0.37764	-2.97	0.00298	0.32574					

Table 24. The odds ratio of the scores of visual indicators evolving to "good" status of innovative agricultural management practice (AMP) and control. Values written in red and bold were statistically significant (Fisher Test: and the null hypothesis that the frequency of the category "good" of the AMPs was not different from the frequency of the category "good" observed for the control (rejected for $\alpha<0.05$)).

	NT	MT	MAN	GM	MUL	SC	CR	CC	LEG	IPM	IM	CLU
STR	**na**	0.8	**5.2**	1	2.8	**4.7**	1.9	1.0	**7.9**	6.4	15.0	**21.0**
POR	**10.0**	1.3	**5.5**	1	**4.6**	7.1	2.0	0.4	5.4	**7.5**	na	6.0
STA	**7.0**	1.8	2.6	1	0.3	1.5	3.3	6.0	5.7	2.3	1.0	1.5
PAN	5.0	1.1	2.3	2	2.8	4.7	1.3	0.2	1.0	0.7	8.0	1.0
COL	2.0	1.9	1.3	na	2.8	2.1	1.4	6.0	1.0	2.6	4.5	1.5
EAR	5.0	2.8	2.2	na	1.0	2.6	1.3	6.0	1.0	2.2	na	1.6
ERO	**7.0**	1.7	1.4	na	1.3	0.6	1.0	na	1.7	1.5	1.0	6.0
PON	na	1.7	1.5	na	1.6	1.0	1.2	na	1.7	1.0	2.7	1.0

na: not applicable (odds ratio could not be calculated). NT: no-till; MT: minimum tillage; MAN: manuring; GM: green manuring; MUL: mulching; SC: permanent soil cover; CR: crop rotation; CC: cover crops; LEG: leguminous crop in the rotation; IPM: integrated pest management including organic agriculture; IM: Irrigation management; CLU: Change of land use. Str: Soil structure; Por: Soil porosity; Sta: Soil stability (Slake Test); Pan: Presence of a tillage pan; Col: Soil colour; Ear: Earthworm count; Ero: Susceptibility to wind and water erosion; Pon: Surface ponding.

Table 25. The sample size needed to fit models with six and nine terms, for each visual soil quality indicator and two and three possible outcomes, for acidic and alkaline soils. Calculated based on an EPV=10 and the assumption that the frequency of the categories in the database used is similar to the frequency observed for the population.

		Acid soils							
		STR	POR	STA	PAN	COL	EAR	ERO	PON
Hyp. 1		**Number of terms=6**							
2 outcomes	Sample size	143	125	172	140	129	133	326	275
3 outcomes	Sample size	499	798	990	998	469	333		1995
Hyp. 2		**Number of terms=9**							
2 outcomes	Sample size	214	187	258	210	193	200	489	413
3 outcomes	Sample size	748	1197	1485	1496	704	499		2993
		Alkaline soils							
		STR	POR	STA	PAN	COL	EAR	ERO	PON
Hyp. 1		**Number of terms=6**							
2 outcomes	Sample size	160	168	185	164	211	127	215	194
3 outcomes	Sample size	461	369	284	388	527	388	1770	1054
Hyp. 2		**Number of terms=9**							
2 outcomes	Sample size	241	252	277	246	316	191	322	291
3 outcomes	Sample size	692	554	426	583	791	583	2655	1581