

Supplementary material 2

Table A 1: Intercepts, estimates, standard errors and t values of all fixed effects included in the minimal adequate linear mixed effect models for the number of all species.

No. All species		Estimate	Standard error	t value
No	(Intercept)	27.40	1.21	22.67
	Year2	4.70	1.40	3.35
	Year3	15.80	1.40	11.26
	Year4	12.00	1.40	8.55
	Year5	3.70	1.40	2.64
	SiteV	2.50	1.71	1.46
	SiteX	-2.20	1.71	-1.29
	SiteY	-12.90	1.71	-7.55
	Year2:SiteV	-2.00	1.98	-1.01
	Year3:SiteV	-3.00	1.98	-1.51
	Year4:SiteV	-3.60	1.98	-1.81
	Year5:SiteV	-2.50	1.98	-1.26
	Year2:SiteX	-3.20	1.98	-1.61
	Year3:SiteX	-7.20	1.98	-3.63
	Year4:SiteX	-7.40	1.98	-3.73
	Year2:SiteY	-0.90	1.98	-0.45
	Year3:SiteY	-12.80	1.98	-6.45
	Year4:SiteY	-10.00	1.98	-5.04
Partial	(Intercept)	28.00	1.58	17.67
	Year3	5.20	1.59	3.27
	Year4	7.00	1.59	4.40
	SiteD	-2.75	2.38	-1.16
	SiteF	0.80	2.24	0.36
	Year3:SiteD	-0.58	2.39	-0.24
	Year4:SiteD	-1.50	2.39	-0.63
	Year3:SiteF	-1.20	2.25	-0.53
	Year4:SiteF	-5.80	2.25	-2.58
Complete	(Intercept)	18.40	1.27	14.54
	Year3	4.20	1.04	4.04
	Year4	3.30	1.04	3.17
	Year5	5.30	1.04	5.10
	Year6	4.30	1.04	4.14
	SiteI	2.40	1.79	1.34
	SiteJ	2.30	1.79	1.29
	Year3:SiteI	-4.20	1.47	-2.86
	Year4:SiteI	-7.70	1.47	-5.24
	Year5:SiteI	-1.70	1.47	-1.16
	Year6:SiteI	-6.00	1.47	-4.08
	Year3:SiteJ	-4.80	1.47	-3.27
	Year4:SiteJ	-9.10	1.47	-6.19
	Year5:SiteJ	-9.20	1.47	-6.26

Year6:SiteJ	-6.10	1.47	-4.15
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Table A 2: Intercepts, estimates, standard errors and t values of all fixed effects included in the minimal adequate linear mixed effect models for the number of open land species.

No. Open land species		Estimate	Standard error	t value
No	(Intercept)	18.70	1.00	18.66
	Year2	3.60	1.17	3.08
	Year3	12.20	1.17	10.45
	Year4	8.80	1.17	7.54
	Year5	1.30	1.17	1.11
	SiteV	1.60	1.42	1.13
	SiteX	-1.00	1.42	-0.71
	SiteY	-11.10	1.42	-7.83
	Year2:SiteV	-2.50	1.65	-1.51
	Year3:SiteV	-2.90	1.65	-1.76
	Year4:SiteV	-2.60	1.65	-1.58
	Year5:SiteV	-2.50	1.65	-1.51
	Year2:SiteX	-2.50	1.65	-1.51
	Year3:SiteX	-5.80	1.65	-3.51
	Year4:SiteX	-5.30	1.65	-3.21
	Year2:SiteY	-0.30	1.65	-0.18
	Year3:SiteY	-10.40	1.65	-6.30
	Year4:SiteY	-7.60	1.65	-4.60
Partial	(Intercept)	18.90	1.21	15.62
	Year3	3.00	1.20	2.51
	Year4	2.50	1.20	2.09
	SiteD	-0.65	1.82	-0.36
	SiteF	2.10	1.71	1.23
	Year3:SiteD	-1.25	1.79	-0.70
	Year4:SiteD	-1.88	1.79	-1.05
	Year3:SiteF	<0.01	1.69	0.00
	Year4:SiteF	-4.70	1.69	-2.78
Complete	(Intercept)	10.00	1.06	9.41
	Year3	1.70	0.89	1.91
	Year4	0.20	0.89	0.23
	Year5	1.60	0.89	1.80
	Year6	0.70	0.89	0.79
	SiteI	1.90	1.50	1.27
	SiteJ	2.50	1.50	1.66
	Year3:SiteI	-1.70	1.26	-1.35
	Year4:SiteI	-4.60	1.26	-3.66
	Year5:SiteI	0.20	1.26	0.16
	Year6:SiteI	-2.80	1.26	-2.23
	Year3:SiteJ	-3.40	1.26	-2.71
	Year4:SiteJ	-6.60	1.26	-5.26

Year5:SiteJ	-6.90	1.26	-5.49
Year6:SiteJ	-4.60	1.26	-3.66

Table A 3: Intercepts, estimates, standard errors and t values of all fixed effects included in the minimal adequate linear mixed effect models for the number of forest species.

No. Forest species		Estimate	Standard error	t value
No	(Intercept)	7.94	0.52	15.34
	Year2	1.38	0.36	3.79
	Year3	2.83	0.36	7.77
	Year4	2.31	0.36	6.33
	Year5	3.18	0.36	8.73
	SiteV	0.62	0.64	0.97
	SiteX	-1.72	0.65	-2.66
	SiteY	-2.49	0.65	-3.86
Partial	(Intercept)	9.02	0.50	17.88
	Year3	1.71	0.37	4.59
	Year4	4.04	0.37	10.80
	SiteD	-1.73	0.68	-2.52
	SiteF	-2.17	0.64	-3.36
Complete	(Intercept)	8.40	0.49	17.00
	Year3	2.40	0.51	4.72
	Year4	3.10	0.51	6.10
	Year5	3.70	0.51	7.28
	Year6	3.30	0.51	6.49
	SiteI	0.20	0.70	0.29
	SiteJ	-0.30	0.70	-0.43
	Year3:SiteI	-2.30	0.72	-3.20
	Year4:SiteI	-2.80	0.72	-3.89
	Year5:SiteI	-1.60	0.72	-2.23
	Year6:SiteI	-2.60	0.72	-3.62
	Year3:SiteJ	-1.20	0.72	-1.67
	Year4:SiteJ	-2.40	0.72	-3.34
	Year5:SiteJ	-2.20	0.72	-3.06
	Year6:SiteJ	-1.20	0.72	-1.67

Table A 4: Intercepts, estimates, standard errors and t values of all fixed effects included in the minimal adequate linear mixed effect models for the ordinal forb cover.

Forb cover		Estimate	Standard error	t value
No	(Intercept)	39.10	2.54	15.40
	Year2	13.70	2.72	5.05
	Year3	35.50	2.72	13.08
	Year4	24.70	2.72	9.10
	Year5	1.90	2.72	0.70
	SiteV	3.70	3.59	1.03
	SiteX	-1.50	3.59	-0.42
	SiteY	-25.20	3.59	-7.02
	Year2:SiteV	-6.90	3.84	-1.80
	Year3:SiteV	-2.90	3.84	-0.76
	Year4:SiteV	-13.70	3.84	-3.57
	Year5:SiteV	-6.30	3.84	-1.64
	Year2:SiteX	-8.40	3.84	-2.19
	Year3:SiteX	-20.50	3.84	-5.34
	Year4:SiteX	-21.10	3.84	-5.50
	Year2:SiteY	-4.70	3.84	-1.22
	Year3:SiteY	-33.70	3.84	-8.78
	Year4:SiteY	-27.50	3.84	-7.16
Partial	(Intercept)	36.80	2.49	14.80
	Year3	13.00	2.53	5.15
	Year4	8.80	2.53	3.48
	SiteD	-1.05	3.73	-0.28
	SiteF	4.30	3.52	1.22
	Year3:SiteD	-4.25	3.79	-1.12
	Year4:SiteD	-3.18	3.79	-0.84
	Year3:SiteF	11.80	3.57	3.30
	Year4:SiteF	-10.90	3.57	-3.05
Complete	(Intercept)	26.00	1.67	15.53
	Year3	3.40	1.88	1.81
	Year4	-10.80	1.88	-5.76
	Year5	-4.40	1.88	-2.35
	Year6	-9.30	1.88	-4.96
	SiteI	8.40	2.37	3.55
	SiteJ	7.70	2.37	3.25
	Year3:SiteI	-4.00	2.65	-1.51
	Year4:SiteI	-10.70	2.65	-4.03
	Year5:SiteI	1.60	2.65	0.60
	Year6:SiteI	-4.40	2.65	-1.66
	Year3:SiteJ	-0.30	2.65	-0.11
	Year4:SiteJ	-12.40	2.65	-4.67
	Year5:SiteJ	-15.80	2.65	-5.95
	Year6:SiteJ	-10.60	2.65	-3.99

Grass cover		Estimate	Standard error	t value
NO	(Intercept)	7.60	1.44	5.28
	Year2	11.10	1.49	7.47
	Year3	22.10	1.49	14.87
	Year4	32.30	1.49	21.74
	Year5	32.50	1.49	21.87
	SiteV	-0.50	2.04	-0.25
	SiteX	-7.50	2.04	-3.68
	SiteY	-15.80	2.04	-7.75
	Year2:SiteV	-1.40	2.10	-0.67
	Year3:SiteV	-4.50	2.10	-2.14
	Year4:SiteV	-7.40	2.10	-3.52
	Year5:SiteV	-7.30	2.10	-3.47
	Year2:SiteX	2.60	2.10	1.24
	Year3:SiteX	-0.90	2.10	-0.43
	Year4:SiteX	-5.20	2.10	-2.47
	Year2:SiteY	15.00	2.10	7.14
	Year3:SiteY	6.60	2.10	3.14
	Year4:SiteY	-2.20	2.10	-1.05
Partial	(Intercept)	11.20	1.73	6.48
	Year3	7.30	1.17	6.24
	Year4	11.10	1.17	9.49
	SiteD	-1.33	2.59	-0.51
	SiteF	-6.40	2.44	-2.62
	Year3:SiteD	0.33	1.75	0.19
	Year4:SiteD	-0.48	1.75	-0.27
	Year3:SiteF	-1.10	1.65	-0.67
Complete	(Intercept)	10.10	1.33	7.61
	Year3	7.50	1.23	6.10
	Year4	11.10	1.23	9.02
	Year5	7.90	1.23	6.42
	Year6	7.60	1.23	6.18
	SiteI	-2.10	1.88	-1.12
	SiteJ	-1.10	1.88	-0.59
	Year3:SiteI	-4.10	1.74	-2.36
	Year4:SiteI	-2.20	1.74	-1.26
	Year5:SiteI	1.20	1.74	0.69
	Year6:SiteI	<0.01	1.74	<0.01
	Year3:SiteJ	-0.90	1.74	-0.52
	Year4:SiteJ	-3.80	1.74	-2.18
	Year5:SiteJ	-0.50	1.74	-0.29
	Year6:SiteJ	1.10	1.74	0.63

Table A 5: Intercepts, estimates, standard errors and t values of all fixed effects included in the minimal adequate linear mixed effect models for the ordinal bryophyte cover.

Bryophyte cover		Estimate	Standard error	t value
No	(Intercept)	15.10	1.56	9.66
	Year2	12.30	1.82	6.75
	Year3	19.50	1.82	10.70
	Year4	20.90	1.82	11.47
	Year5	19.50	1.82	10.70
	SiteV	2.40	2.21	1.09
	SiteX	-2.80	2.21	-1.27
	SiteY	-6.20	2.21	-2.81
	Year2:SiteV	-0.10	2.58	-0.04
	Year3:SiteV	-4.90	2.58	-1.90
	Year4:SiteV	-6.30	2.58	-2.44
	Year5:SiteV	-6.20	2.58	-2.41
	Year2:SiteX	2.60	2.58	1.01
	Year3:SiteX	3.00	2.58	1.16
	Year4:SiteX	3.80	2.58	1.47
	Year2:SiteY	-1.40	2.58	-0.54
	Year3:SiteY	-5.30	2.58	-2.06
	Year4:SiteY	3.50	2.58	1.36
Partial	(Intercept)	23.00	1.30	17.65
	Year3	6.20	1.62	3.84
	Year4	10.60	1.62	6.56
	SiteD	0.63	1.96	0.32
	SiteF	-5.00	1.84	-2.71
	Year3:SiteD	7.55	2.42	3.12
	Year4:SiteD	-6.35	2.42	-2.62
	Year3:SiteF	-1.50	2.28	-0.66
	Year4:SiteF	-2.50	2.28	-1.09
Complete	(Intercept)	2.60	1.19	2.19
	Year3	5.10	1.16	4.40
	Year4	9.50	1.16	8.20
	Year5	11.80	1.16	10.19
	Year6	18.80	1.16	16.23
	SiteI	3.70	1.68	2.20
	SiteJ	-1.90	1.68	-1.13
	Year3:SiteI	2.50	1.64	1.53
	Year4:SiteI	-0.80	1.64	-0.49
	Year5:SiteI	1.70	1.64	1.04
	Year6:SiteI	-4.50	1.64	-2.75
	Year3:SiteJ	2.30	1.64	1.40
	Year4:SiteJ	-1.40	1.64	-0.86
	Year5:SiteJ	-1.10	1.64	-0.67
	Year6:SiteJ	0.80	1.64	0.49

Table A 6: Intercepts, estimates, standard errors and t values of all fixed effects included in the minimal adequate linear mixed effect models for the mean Ellenberg indicator value for light.

Light EIV		Estimate	Standard error	t value
No	(Intercept)	7.60	0.02	319.74
	Year2	0.06	0.02	2.95
	Year3	0.01	0.02	0.39
	Year4	0.02	0.02	0.75
	Year5	-0.08	0.02	-4.16
Partial	(Intercept)	7.51	0.02	371.28
	Year3	0.07	0.02	3.29
	Year4	-0.05	0.02	-2.27
Complete	(Intercept)	7.13	0.04	194.73
	Year3	0.12	0.02	5.20
	Year4	-0.03	0.02	-1.27
	Year5	0.07	0.02	3.07
	Year6	0.05	0.02	2.29
	SiteI	0.18	0.05	3.87
	SiteJ	0.18	0.05	3.85

Table A 7: Intercepts, estimates, standard errors and t values of all fixed effects included in the minimal adequate linear mixed effect models for the mean Ellenberg indicator value for moisture.

Moisture EIV		Estimate	Standard error	t value
No	(Intercept)	3.95	0.05	86.44
	Year2	-0.08	0.04	-1.88
	Year3	-0.33	0.04	-8.28
	Year4	-0.62	0.04	-15.35
	Year5	-0.67	0.04	-16.62
	SiteV	-0.02	0.05	-0.37
	SiteX	-0.19	0.05	-3.66
	SiteY	-0.69	0.05	-13.11
Partial	(Intercept)	4.10	0.04	104.17
	Year3	-0.16	0.03	-5.40
	Year4	-0.31	0.03	-10.46
Complete	(Intercept)	4.39	0.07	59.39
	Year3	-0.12	0.04	-2.75
	Year4	-0.58	0.04	-13.52
	Year5	-0.65	0.04	-15.11
	Year6	-0.83	0.04	-19.28
	SiteI	-0.51	0.10	-5.20
	SiteJ	-0.46	0.10	-4.77

Table A 8: Intercepts, estimates, standard errors and t values of all fixed effects included in the minimal adequate linear mixed effect models for the mean Ellenberg indicator value for reaction.

Reaction EIV		Estimate	Standard error	t value
No	(Intercept)	5.32	0.09	58.13
	Year2	-0.87	0.08	-11.32
	Year3	-0.88	0.08	-11.52
	Year4	-1.19	0.08	-15.51
	Year5	-1.70	0.08	-22.10
	SiteV	-0.28	0.13	-2.15
	SiteX	-0.13	0.13	-1.02
	SiteY	-0.89	0.13	-6.87
	Year2:SiteV	0.05	0.11	0.44
	Year3:SiteV	0.22	0.11	2.05
	Year4:SiteV	0.20	0.11	1.82
	Year5:SiteV	0.27	0.11	2.45
	Year2:SiteX	-0.04	0.11	-0.33
	Year3:SiteX	-0.33	0.11	-3.03
	Year4:SiteX	-0.43	0.11	-3.99
	Year2:SiteY	-0.34	0.11	-3.16
	Year3:SiteY	-0.67	0.11	-6.14
	Year4:SiteY	-0.66	0.11	-6.05
Partial	(Intercept)	4.60	0.09	52.64
	Year3	-0.24	0.08	-2.82
	Year4	-0.48	0.08	-5.72
	SiteD	-0.28	0.13	-2.15
	SiteF	0.44	0.12	3.54
	Year3:SiteD	-0.03	0.13	-0.25
	Year4:SiteD	0.26	0.13	2.07
	Year3:SiteF	-0.34	0.12	-2.82
	Year4:SiteF	-0.37	0.12	-3.13
Complete	(Intercept)	3.14	0.15	20.32
	Year3	0.43	0.10	4.13
	Year4	0.02	0.10	0.16
	Year5	0.31	0.10	3.00
	Year6	-0.17	0.10	-1.62
	SiteI	0.56	0.22	2.58
	SiteJ	0.27	0.22	1.22
	Year3:SiteI	-0.39	0.15	-2.66
	Year4:SiteI	-0.57	0.15	-3.93
	Year5:SiteI	-0.41	0.15	-2.84
	Year6:SiteI	-0.42	0.15	-2.89
	Year3:SiteJ	-0.42	0.15	-2.87
	Year4:SiteJ	-0.60	0.15	-4.12
	Year5:SiteJ	-1.04	0.15	-7.13
	Year6:SiteJ	-0.61	0.15	-4.17

Table A 9: Intercepts, estimates, standard errors and t values of all fixed effects included in the minimal adequate linear mixed effect models for the mean Ellenberg indicator value for nitrogen.

Nitrogen EIV		Estimate	Standard error	t value
No	(Intercept)	5.25	0.08	62.16
	Year2	-0.80	0.08	-10.18
	Year3	-1.35	0.08	-17.18
	Year4	-1.68	0.08	-21.44
	Year5	-1.89	0.08	-24.14
	SiteV	-0.09	0.12	-0.72
	SiteX	0.05	0.12	0.43
	SiteY	0.08	0.12	0.63
	Year2:SiteV	<0.01	0.11	-0.04
	Year3:SiteV	0.23	0.11	2.05
	Year4:SiteV	0.10	0.11	0.86
	Year5:SiteV	0.29	0.11	2.59
	Year2:SiteX	-0.13	0.11	-1.19
	Year3:SiteX	-0.23	0.11	-2.10
	Year4:SiteX	-0.34	0.11	-3.08
	Year2:SiteY	-0.78	0.11	-7.04
	Year3:SiteY	-0.66	0.11	-5.91
	Year4:SiteY	-0.53	0.11	-4.77
Partial	(Intercept)	4.96	0.08	62.97
	Year3	-0.31	0.09	-3.35
	Year4	-0.71	0.09	-7.58
	SiteD	-0.13	0.12	-1.09
	SiteF	0.54	0.11	4.82
	Year3:SiteD	-0.14	0.14	-0.96
	Year4:SiteD	0.12	0.14	0.84
	Year3:SiteF	-0.41	0.13	-3.10
	Year4:SiteF	-0.66	0.13	-5.02
Complete	(Intercept)	3.91	0.13	29.21
	Year3	0.27	0.07	3.87
	Year4	-0.39	0.07	-5.60
	Year5	-0.37	0.07	-5.36
	Year6	-0.69	0.07	-10.01
	SiteI	0.20	0.18	1.11
	SiteJ	-0.36	0.18	-2.00