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**Supplementary material for online publication**

Table S1. Model summary for linear mixed models testing effects of year on functional diversity.

<u>Term</u>	<u>Estimate</u>	<u>SE</u>	<u>T-Statistic</u>	<u>DF</u>	<u>P-value</u>	<u>R<sup>2</sup><sub>marginal</sub></u>	<u>R<sup>2</sup><sub>conditional</sub></u>
<i>All plants</i>							
(Intercept)	0.112	0.001	160.899	100.806	<0.001		
Year	0.000	0.000	-2.088	1439.000	0.037	0.001	0.510
<i>Native annual forbs only</i>							
(Intercept)	0.094	0.002	52.208	103.216	<0.001		
Year	-0.001	0.000	-9.401	1401.303	<0.001	0.015	0.487

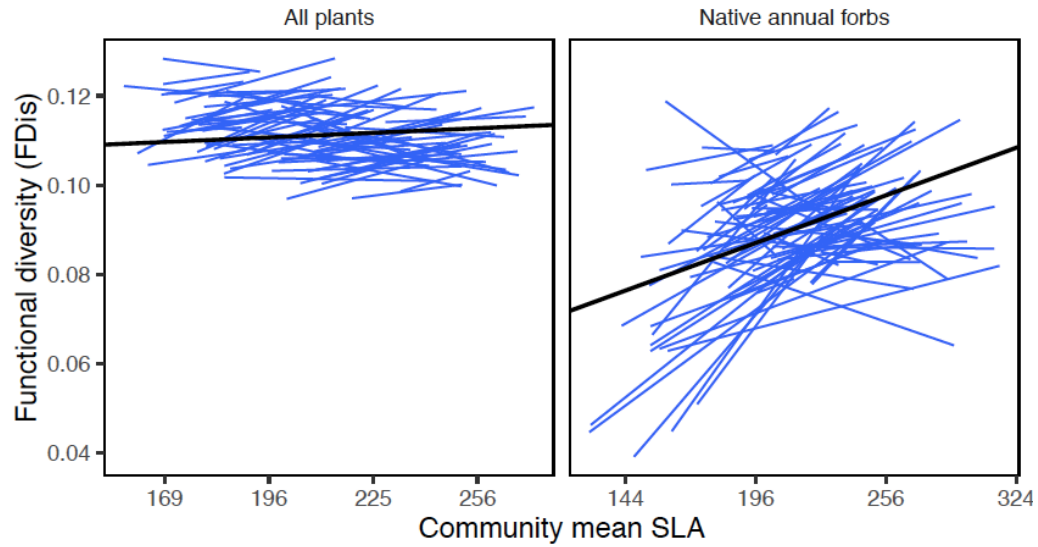
Table S2. Model summary for linear mixed models testing effects of winter precipitation on functional diversity.

<u>Term</u>	<u>Estimate</u>	<u>SE</u>	<u>T-Statistic</u>	<u>DF</u>	<u>P-value</u>	<u>R<sup>2</sup><sub>marginal</sub></u>	<u>R<sup>2</sup><sub>conditional</sub></u>
<i>All plants</i>							
(Intercept)	0.108	0.002	56.075	1404.529	<0.001		
Winter precipitation	0.001	0.000	1.828	1439.000	0.068	0.127	0.572
<i>Native annual forbs only</i>							
(Intercept)	0.053	0.005	9.628	1437.315	<0.001		
Winter precipitation	0.006	0.001	6.621	1401.204	<0.001	0.514	0.743

10 Table S3. Model summary for simple regression models testing effects of initial functional  
 11 diversity and initial community mean specific leaf area (SLA CWM) on change in species  
 12 richness.

<u>Term</u>	<u>Estimate</u>	<u>SE</u>	<u>T-Statistic</u>	<u>P-value</u>	<u>R<sup>2</sup></u>
<i>All plants</i>					
(Intercept)	-0.385	0.032	-12.211	<0.001	
Initial functional diversity	-0.022	0.032	-0.685	0.496	0.006
<i>Native annual forbs only</i>					
(Intercept)	-0.291	0.023	-12.797	<0.001	
Initial functional diversity	0.008	0.023	0.365	0.716	0.008
<i>All plants</i>					
(Intercept)	-0.385	0.029	-13.495	<0.001	
Initial SLA CWM	-0.121	0.029	-4.225	<0.001	0.186
<i>Native annual forbs only</i>					
(Intercept)	-0.291	0.021	-13.831	<0.001	
Initial SLA CWM	-0.077	0.021	-3.642	<0.001	0.204

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15 Figure S1. Blue lines indicate the per site relationship between functional diversity and

16 community mean SLA ( $\text{mm}^2/\text{g}$ ). Functional diversity was significantly positively related to17 community mean SLA both for all plants ( $P=0.008$ ;  $R^2_m=0.009$ ,  $R^2_c=0.554$ ) and for native annual18 forbs ( $P<0.001$ ,  $R^2_m=0.114$ ,  $R^2_c=0.608$ ).

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