Table 0.1: Importance of components, from Principal Components Analysis of the set of 18 hydrological metrics used as explanatory variables in this study.

	PC1	*PC2*	*PC3*	*PC4*	*PC5*
Standard deviation	2.787	1.995	1.273	1.079	0.996
Proportion of variance	0.431	0.221	0.090	0.065	0.042
Cumulative proportion	0.431	0.653	0.743	0.807	0.862

Table 0.2: Loadings across principal components for the set of 18 hydrological metrics used as explanatory variables in this study.

metric	*PC1*	*PC2*	*PC3*	*PC4*	*PC5*
MDFMDFWet	-0.068	0.127	-0.647	-0.183	0.210
MDFMDFDry	0.261	-0.226	-0.132	-0.141	0.243
CVMDFWet	-0.300	-0.102	0.242	-0.194	0.210
CVMDFDry	-0.331	-0.134	0.043	0.125	-0.046
HSPeak	-0.307	-0.001	-0.272	0.190	-0.018
HSMeanDur	0.261	-0.313	-0.046	0.068	-0.016
CVAnnHSPeak	-0.296	0.063	-0.210	0.082	0.131
CVAnnHSMeanDur	0.141	-0.367	0.150	0.312	0.029
LSPeak	-0.137	0.384	-0.023	0.314	0.257
LSMeanDur	-0.283	-0.193	-0.067	-0.336	0.205
CVAnnLSPeak	0.095	-0.342	0.069	-0.350	0.330
CVAnnLSMeanDur	-0.121	-0.242	-0.199	0.130	0.311
BFI	0.334	-0.020	-0.026	0.205	0.215
CVAnnBFI	-0.250	-0.286	-0.139	0.160	-0.235
C_MinM	0.200	-0.225	-0.403	0.394	-0.045
M_MinM	0.172	0.159	-0.211	-0.233	-0.451
C_MaxM	-0.154	-0.345	-0.155	-0.202	-0.456
M_MaxM	0.259	0.175	-0.246	-0.283	0.066

Table 0.3: Summary statistics for trait data.

trait	*mean*	*SD*
flowering duration (months)	4.72	2.58
leaf area (cm2)	28.61	28.05
maximum height (m)	19.79	13.98
seed mass (mg)	365.99	2078.8
SLA (cm2/g)	15.3	7.42
wood density (g/cm3)	0.609	0.13

Table 0.4: Proportional abundance of plants represented in the functional diversity analysis at each site.

site	*Total cover (individuals Ha-1)*	*Represented cover (individuals Ha-1)*	*Proportion represented*
1	8365	8219	0.983
2	13698	13643	0.996
3	28142	22487	0.799
4	9567	8177	0.855
5	3193	3179	0.996
6	25237	25140	0.996
7	14409	12887	0.894
8	9458	9384	0.992
9	16578	15068	0.909
10	12505	11118	0.889
11	42275	35464	0.839
12	9320	9320	1.000
13	25981	23881	0.919
14	12954	12007	0.927
15	11103	10882	0.980
16	20669	16540	0.800
17	25177	18199	0.723
18	4613	4219	0.915
19	3657	3443	0.942
20	27249	23889	0.877
21	23301	23008	0.987
22	15639	13730	0.878
23	10855	6067	0.559
24	17888	15538	0.869
25	3869	2603	0.673
26	14070	11862	0.843
27	17238	14213	0.825
28	13756	9638	0.701
29	7249	7208	0.994
30	21555	21483	0.997
31	7296	7227	0.991
32	5307	5307	1.000
33	19417	19046	0.981
34	9942	9782	0.984
35	8202	8185	0.998
36	3745	3607	0.963
37	13851	13535	0.977
38	18326	15187	0.829
39	8410	5840	0.694
40	5360	5283	0.986

Table 0.5: Proportion of species included in the functional diversity analysis for which trait values were available.

trait	*data density*
flowering duration	0.891
growth form	1
leaf area	0.983
maximum height	0.971
seed mass	0.868
SLA	0.661
wood density	0.672