

Supplemental information

Table S1. Eigenvalues associated with each independent variable in each principal components by season. PC=principal component.

Growing season					
	PC1	PC2	PC3	PC4	PC5
Variance explained (%)	30.8	21.3	13.2	10.7	8.8
LAI	0.304593	0.523619	-0.35268	-0.58884	0.043122
T _{air}	0.736443	-0.26286	-0.10081	0.563951	0.187796
Soil temp(4cm)	0.941844	0.114451	0.062136	-0.0863	-0.19403
Soil temp(8cm)	0.934205	-0.00501	0.150346	0.010841	-0.22704
Wind speed	-0.6741	-0.10362	0.155615	0.297073	-0.4491
G30	0.644642	-0.05827	0.551791	-0.25581	-0.33616
VPD	0.107839	-0.92323	-0.14219	0.108664	0.125478
VWC	-0.24784	0.146051	0.672605	-0.22649	0.518649
RH	0.48055	0.598854	-0.10321	0.498568	0.239346
Rn	0.354728	-0.67099	0.063472	-0.24621	0.452347
rain	-0.04075	0.678818	0.312965	0.26339	0.238965
litter	0.064486	0.191658	-0.71726	-0.13981	0.1033

Non-growing season					
	PC1	PC2	PC3	PC4	PC5

variance (%)	36.0	18.0	14.6	9.0	7.4
LAI	0.375101	-0.18446	-0.69207	0.113036	0.359818
T _{air}	0.867785	0.180475	0.097892	0.190502	0.15284
Soil temp(4cm)	0.875252	-0.1022	0.347072	-0.04055	0.004911
Soil temp(8cm)	0.852266	-0.14522	0.333289	-0.07335	-0.01624
Wind speed	-0.43878	0.37164	0.458621	0.337456	-0.14311
G30	0.507322	-0.05802	0.626023	-0.33622	0.234746
VPD	0.403032	0.848266	0.160635	0.118827	-0.1032
VWC	-0.44114	-0.16511	0.365792	0.277716	0.656537
RH	0.635803	-0.5853	-0.16304	0.14437	0.039565
Rn	0.311203	0.770874	-0.30985	0.283662	0.29977
rain	-0.11293	-0.48214	0.278174	0.73982	-0.1748
litter	0.78441	-0.02375	-0.25677	0.23844	-0.31477

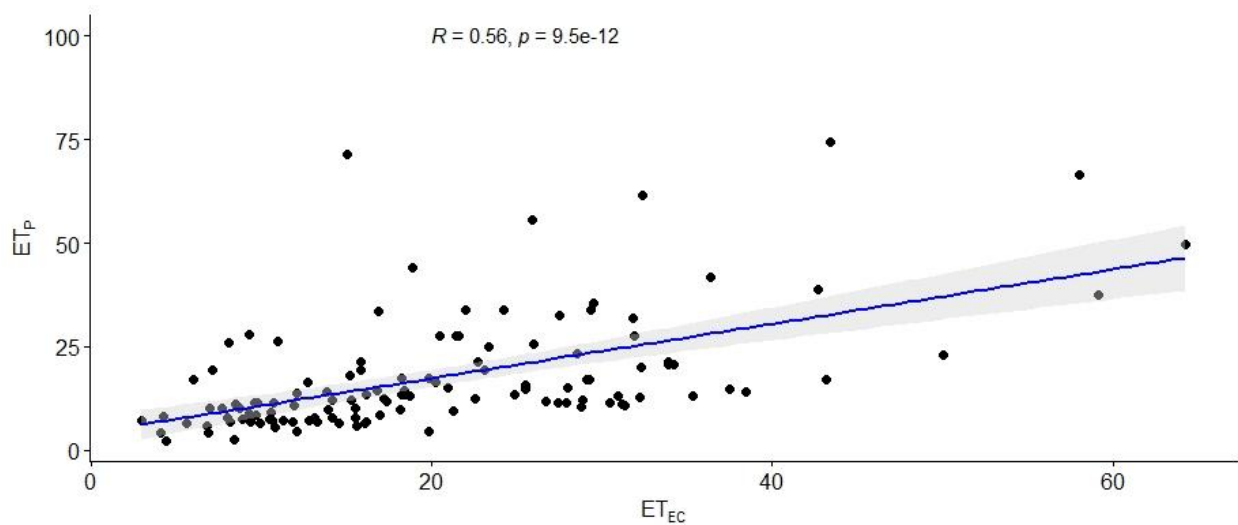


Figure S1. Relationship between weekly sums of ET measured by the flux tower (ET_{EC}), and ET estimated by totaling its components from plot measurements (ET_P). R =Pearson correlation coefficient.

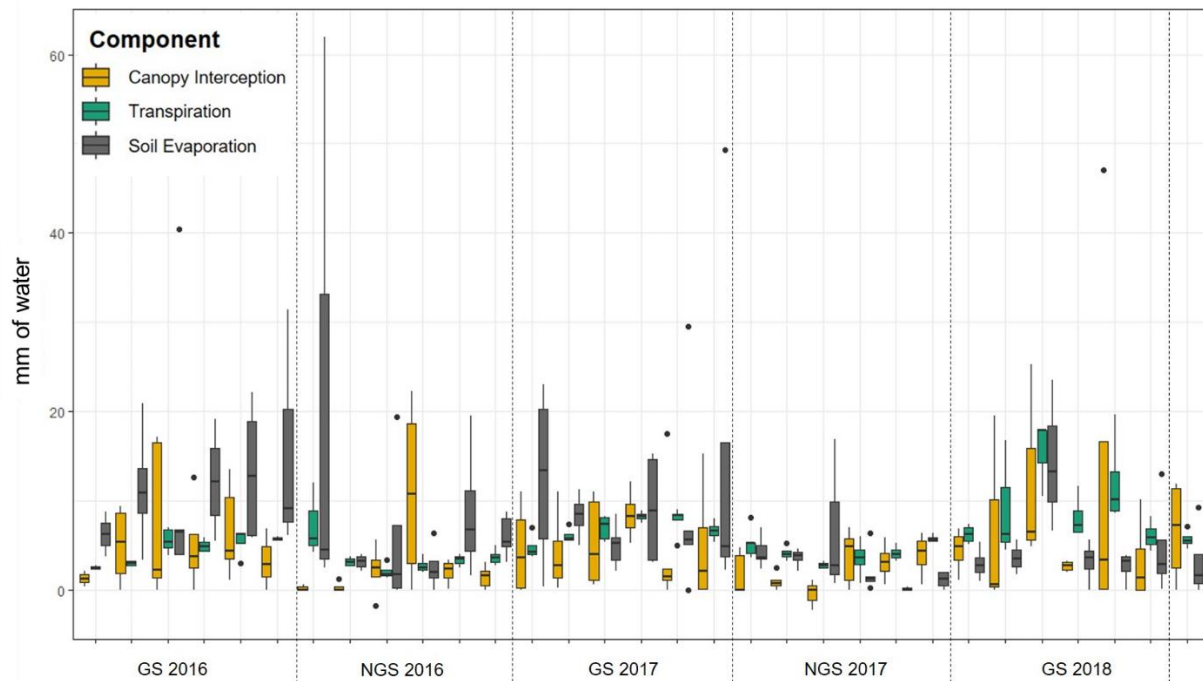


Figure S2. Distribution of weekly values of ET components from April 2016 to October 2018. Boxes outline interquartile range, vertical lines extend to $1.5 \times$ interquartile range, with outliers individually marked.

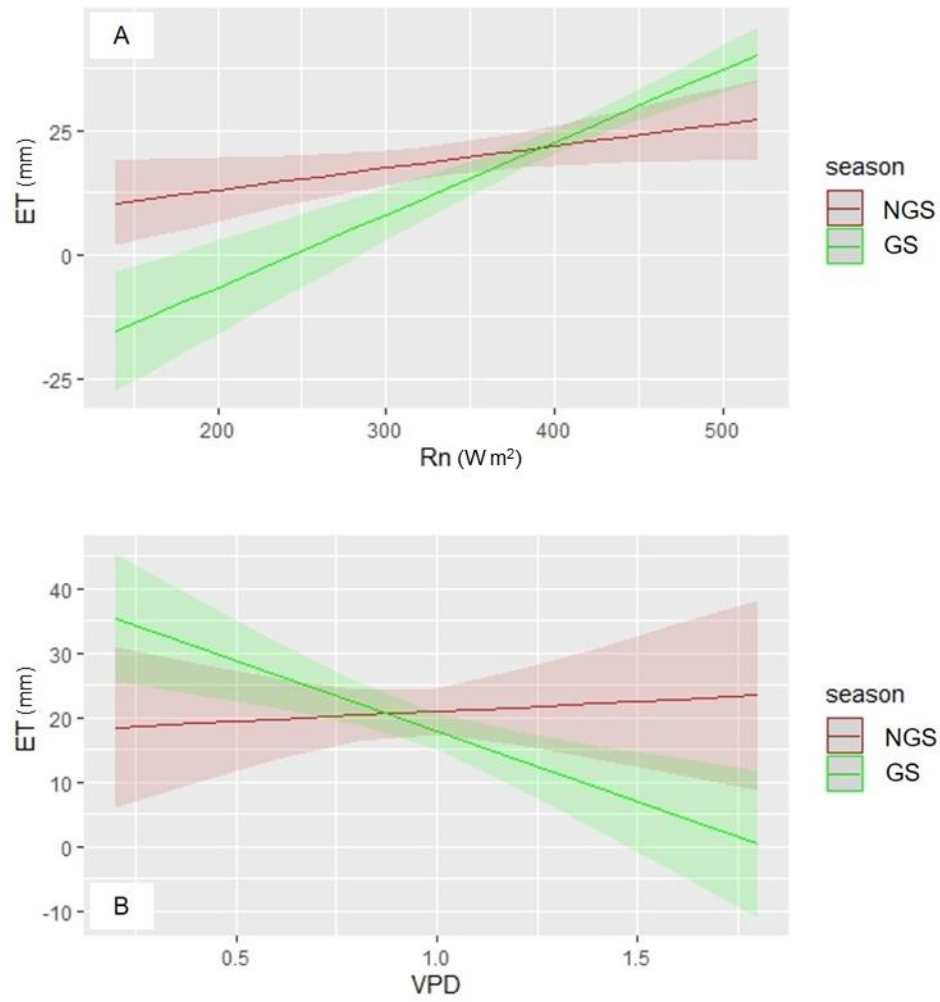


Figure S3. Estimated marginal means from model of evapotranspiration (ET) as a function of: (A) net radiation (Rn) and (B) vapor pressure deficit (VPD) by season.

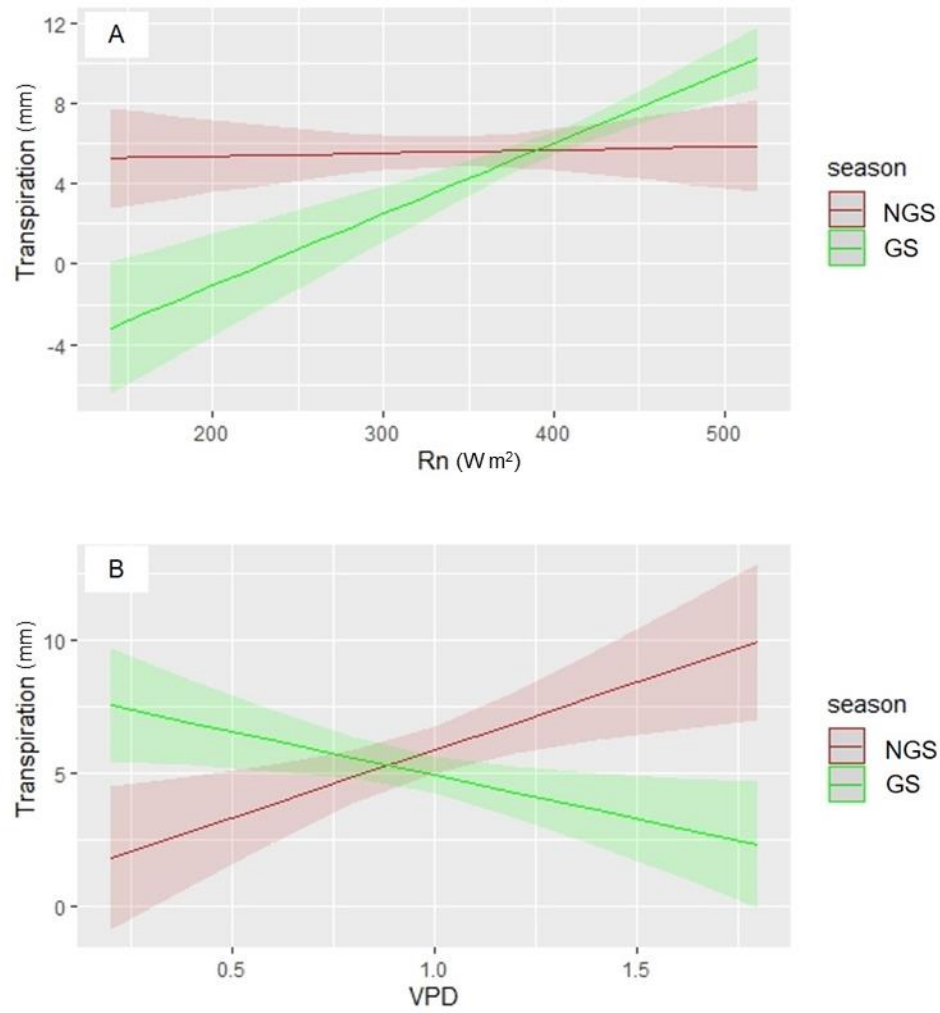


Figure S4. Estimated marginal means from model of transpiration as a function of: (A) net radiation (Rn) and (B) vapor pressure deficit (VPD) by season.

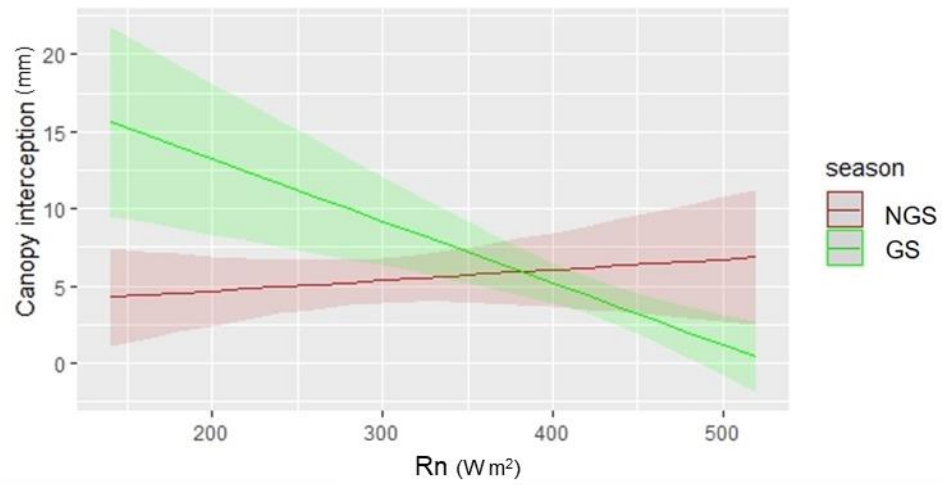


Figure S5. Estimated marginal means from model of canopy interception as a function of net radiation (Rn) by season.

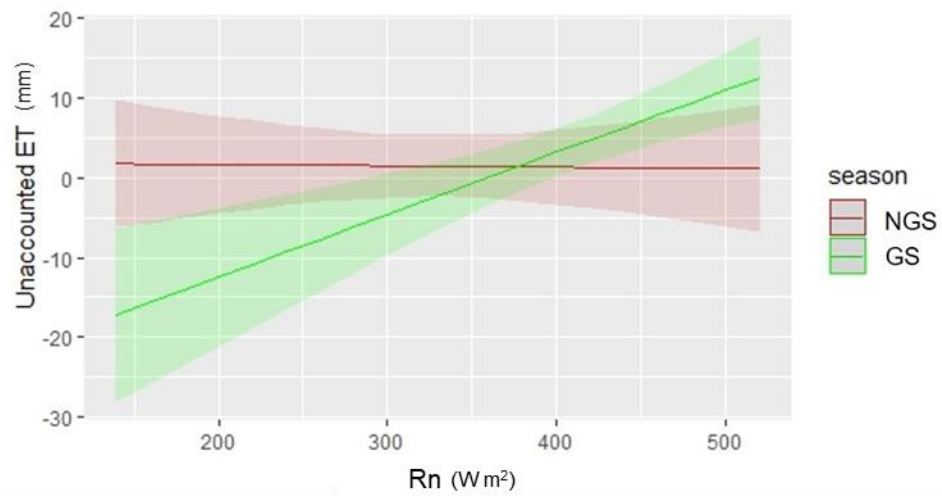


Figure S6. Estimated marginal means from model of unaccounted portion of evapotranspiration (ET) as a function of net radiation (Rn) by season.