

Table S3: Summary of descriptive analysis for RGR of different indices in the 2nd fully expanded leaf. RGR: relative growth rate. Min represents minimum value, Max represents maximum value, Mean represents the average value, Std.dev represents standard deviation. P1 represents data set calculated with 3-day intervals from DAT20 to DAT23, by that analogy, we calculated P2 to P7 data sets. P1' represents data set calculated with 6-day intervals from DAT20 to DAT26, by that analogy, we calculated P2' and P3' data sets

Data set	Index	N treatment				P treatment				K treatment				Normal nutrition supply			
		Min	Max	Mean	Std.dev	Min	Max	Mean	Std.dev	Min	Max	Mean	Std.dev	Min	Max	Mean	Std.dev
P1	LW	-0.2087	0.2952	0.0249	0.0951	-0.2089	0.1808	0.0119	0.0760	-0.0827	0.1762	0.0299	0.0587	-0.2095	0.2756	0.0138	0.1229
	LL	-0.0102	0.0358	0.0000	0.0074	-0.0041	0.0112	-0.0003	0.0028	-0.0334	0.0109	-0.0019	0.0056	-0.0015	0.0281	0.0025	0.0090
	LA	-0.0238	0.1219	0.0014	0.0271	-0.0457	0.0408	-0.0004	0.0118	-0.0825	0.0094	-0.0034	0.0142	-0.0039	0.0558	0.0064	0.0176
	LP	-0.0074	0.0584	0.0033	0.0100	-0.0016	0.0137	0.0041	0.0039	-0.0368	0.0242	0.0006	0.0081	-0.0020	0.0276	0.0052	0.0090
	EC	-0.0003	0.0001	0.0000	0.0001	-0.0001	0.0001	0.0000	0.0000	-0.0002	0.0001	0.0000	0.0000	-0.0001	0.0002	0.0000	0.0001
	RE	-0.2089	0.2010	-0.0190	0.0890	-0.1807	0.2181	-0.0121	0.0772	-0.1710	0.0759	-0.0314	0.0569	-0.2711	0.2099	-0.0101	0.1229
	AC	-0.1963	0.1311	-0.0002	0.0529	-0.1012	0.1355	0.0036	0.0527	-0.1284	0.1010	-0.0107	0.0376	-0.0607	0.1387	0.0140	0.0572
	CI	-0.2016	0.2679	0.0249	0.0929	-0.2087	0.1830	0.0122	0.0762	-0.0824	0.1783	0.0318	0.0581	-0.2086	0.2771	0.0113	0.1246
	FF	-0.0468	0.0654	-0.0007	0.0181	-0.0465	0.0401	-0.0086	0.0144	-0.0504	0.0173	-0.0047	0.0131	-0.0167	0.0097	-0.0047	0.0084
	R	-0.0444	0.0855	0.0325	0.0308	-0.1310	0.1707	0.0690	0.0667	-0.0618	0.0927	0.0082	0.0354	-0.0488	0.1105	0.0160	0.0445
	G	-0.0331	0.0366	0.0122	0.0138	-0.0473	0.0689	0.0199	0.0293	-0.0303	0.0315	-0.0017	0.0150	-0.0515	0.0332	0.0000	0.0219
	B	-0.2561	0.1984	-0.0058	0.0858	-0.2049	0.2259	0.0302	0.0917	-0.1229	0.2690	0.0096	0.0719	-0.0592	0.2270	0.0149	0.0820
	H	-0.0045	0.0047	-0.0012	0.0017	-0.0043	0.0017	-0.0012	0.0013	-0.0040	0.0069	0.0002	0.0024	-0.0015	0.0026	0.0001	0.0013
	S	-0.0061	0.0159	0.0014	0.0037	-0.0169	0.0133	0.0014	0.0043	-0.0104	0.0219	0.0010	0.0056	-0.0088	0.0108	-0.0006	0.0058
	BR	-0.0313	0.0430	0.0168	0.0160	-0.0703	0.0879	0.0306	0.0376	-0.0280	0.0512	0.0012	0.0185	-0.0513	0.0263	-0.0068	0.0247
	NRI	-0.0251	0.0524	0.0143	0.0148	-0.0372	0.0796	0.0327	0.0249	-0.0396	0.0312	0.0045	0.0167	-0.0149	0.0191	0.0001	0.0101
	NGI	-0.0390	0.0238	-0.0059	0.0132	-0.1320	0.1698	-0.0052	0.0663	-0.0450	0.0161	-0.0053	0.0130	-0.0271	0.0312	-0.0004	0.0141
	NBI	-0.2395	0.1559	-0.0240	0.0807	-0.0508	0.0515	-0.0174	0.0201	-0.1223	0.1925	0.0060	0.0636	-0.1748	0.0894	-0.0021	0.0707
	DGCI	-0.0317	0.0439	0.0171	0.0163	-0.0713	0.0896	0.0313	0.0383	-0.0285	0.0520	0.0013	0.0189	-0.0521	0.0268	-0.0070	0.0251
	GRVI	-0.3005	0.1460	-0.0550	0.0763	-0.1696	0.2779	-0.0848	0.0747	-0.6483	0.0506	-0.0422	0.1184	-0.0852	0.0649	-0.0121	0.0366
	IKAW	-0.1124	0.1384	0.0229	0.0564	-0.0839	0.1652	0.0330	0.0548	-0.1346	0.0690	-0.0058	0.0566	-0.0320	0.0608	0.0203	0.0300
	IPCA	-0.0863	0.0666	0.0150	0.0306	-0.0495	0.0932	0.0200	0.0305	-0.1246	0.0347	-0.0097	0.0341	-0.0458	0.0323	-0.0029	0.0263
P2	LW	-0.2367	0.1623	-0.0133	0.0859	-0.5614	0.1714	-0.0332	0.1206	-0.1732	0.2255	-0.0176	0.0876	-0.1427	0.0680	-0.0240	0.0717
	LL	-0.0109	0.0047	-0.0001	0.0029	-1.3134	0.0533	-0.0304	0.2031	-0.0039	0.0065	0.0009	0.0021	-0.0351	0.0497	0.0012	0.0215
	LA	-0.1824	0.0256	-0.0035	0.0287	-2.0648	0.1470	-0.0508	0.3200	-0.0269	0.0164	-0.0028	0.0079	-0.0727	0.1032	0.0005	0.0451
	LP	-0.0206	0.0164	-0.0009	0.0077	-1.1932	0.0479	-0.0270	0.1846	-0.0238	0.0115	0.0009	0.0057	-0.0347	0.0509	0.0041	0.0220
	EC	-0.0002	0.0003	0.0000	0.0001	-0.0672	0.0001	-0.0016	0.0104	-0.0001	0.0002	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001
	RE	-0.1711	0.2389	0.0100	0.0828	-0.1900	0.1616	0.0128	0.0913	-0.2505	0.1687	0.0140	0.0894	-0.0746	0.1328	0.0231	0.0639

Data set	Index	N treatment				P treatment				K treatment				Normal nutrition supply			
		Min	Max	Mean	Std.dev	Min	Max	Mean	Std.dev	Min	Max	Mean	Std.dev	Min	Max	Mean	Std.dev
NRI	NRI	-0.0058	0.0340	0.0104	0.0110	-0.0147	0.0406	0.0164	0.0139	-0.0078	0.0373	0.0118	0.0119	-0.0039	0.0133	0.0027	0.0054
	NGI	-0.0525	0.0016	-0.0187	0.0152	-0.0400	0.1133	0.0195	0.0365	-0.0622	-0.0005	-0.0235	0.0160	-0.0302	-0.0086	-0.0181	0.0082
	NBI	-0.0131	0.0583	0.0172	0.0163	-0.0592	0.0683	-0.0186	0.0311	-0.0055	0.0753	0.0279	0.0210	0.0159	0.0808	0.0402	0.0210
	DGCI	-0.0323	0.0776	0.0178	0.0235	-0.0318	0.0939	0.0219	0.0256	-0.0276	0.0690	0.0146	0.0204	0.0087	0.0420	0.0198	0.0127
	GRVI	-0.6790	-0.1024	-0.3235	0.1823	-1.1010	-0.0356	-0.3272	0.3649	-0.7925	0.0018	-0.2255	0.2171	-0.2927	-0.0096	-0.0706	0.0992
	IKAW	-0.0520	0.0542	-0.0092	0.0248	-0.0957	0.1027	-0.0128	0.0349	-0.0831	0.0402	-0.0227	0.0309	-0.0884	-0.0074	-0.0595	0.0264
	IPCA	-0.0459	0.0815	0.0025	0.0281	-0.0867	0.1123	0.0008	0.0404	-0.0885	0.0523	-0.0195	0.0324	-0.0661	0.0139	-0.0293	0.0252