

Table S1 Table of Growth Period Results by Year

YEAR	emergence VCI	emergence STI	emergence SSMI	seedling VCI	seedling STI	seedling SSMI	ear VCI	ear STI	ear SSMI	flowering VCI	flowering STI	flowering SSMI
1990	0.259	-0.111	3.189	0.054	0.222	-1.415	0.462	-0.400	0.006	0.225	-0.038	0.154
1991	0.319	-0.146	-0.024	0.381	0.248	-0.336	0.462	-0.009	-0.514	0.220	-0.081	-0.031
1992	0.430	-0.104	-0.303	0.541	0.378	0.013	0.412	-0.128	-0.514	0.210	-0.083	0.247
1993	0.326	-0.153	0.116	0.688	-0.659	0.454	0.201	0.133	-0.334	0.132	-0.089	0.421
1994	0.897	-0.127	0.210	0.707	0.382	0.441	0.356	0.050	-0.311	0.157	-0.111	0.578
1995	0.400	-0.015	0.601	0.495	0.255	0.423	0.383	0.209	0.620	0.255	0.375	1.121
1996	0.377	-0.061	0.617	0.365	0.239	0.401	0.473	0.271	-0.509	0.281	0.469	0.283
1997	0.387	-0.103	0.575	0.423	0.259	0.370	0.456	0.321	-0.362	0.327	0.510	-0.336
1998	0.978	-0.128	0.608	0.216	0.249	-1.998	0.443	0.326	-0.561	0.372	0.517	-1.470
1999	0.986	-0.080	0.466	0.354	0.306	-1.634	0.423	0.412	-0.157	0.369	-0.248	-1.397
2000	0.960	-0.016	0.414	0.435	0.282	-1.713	0.437	0.416	-0.143	0.405	0.516	-0.223
2001	0.199	-0.024	0.457	0.316	0.264	-1.723	0.470	0.443	-0.217	0.446	0.493	-0.567
2002	0.311	0.083	0.783	0.444	0.124	-1.629	0.274	0.871	-0.460	0.296	0.493	-0.429
2003	0.360	0.114	1.130	0.400	0.091	-1.696	0.091	0.797	-0.570	0.156	1.005	-0.542
2004	0.247	0.099	1.464	0.432	0.128	-1.760	0.545	1.107	-0.668	0.558	0.963	-0.487
2005	0.245	0.112	2.038	0.017	0.116	-1.480	0.575	0.159	-0.501	0.432	0.940	-0.591
2006	0.277	0.139	2.038	0.021	0.230	-1.494	0.584	0.102	-0.511	0.397	0.807	-0.821
2007	0.270	0.059	2.038	0.031	0.179	-1.484	0.633	0.201	-0.434	0.436	0.840	-0.610
2008	0.250	0.127	-0.030	0.468	-0.115	-1.614	0.687	0.205	-0.455	0.531	0.713	-0.619
2009	0.242	0.165	1.971	0.452	0.310	-1.515	0.747	0.241	-0.520	0.555	0.941	-0.646
2010	0.218	0.179	2.013	0.459	0.298	-1.687	0.623	0.258	-0.164	0.480	0.733	-0.738
2011	0.203	0.188	1.683	0.416	-0.248	-2.029	0.462	0.209	-0.075	0.487	1.021	-0.538

2012	0.170	0.175	1.854	0.489	0.415	-1.676	0.416	0.166	0.214	0.504	-0.318	-0.374
2013	0.329	0.232	-0.734	0.293	0.405	-0.167	0.509	1.278	-0.181	0.715	-0.227	-0.509
2014	0.268	0.279	-0.825	0.338	0.252	1.383	0.374	1.013	-0.320	0.752	-0.351	-0.356
2015	0.319	0.268	-0.769	0.391	0.294	1.514	0.423	0.996	-0.398	0.759	-0.336	-0.234
2016	0.343	0.213	-0.708	0.367	0.243	1.859	0.545	0.980	-0.357	0.770	-0.399	-0.383
2017	0.333	1.036	-0.676	0.381	0.320	-0.625	0.877	1.120	-0.359	0.853	-0.295	-0.297
2018	0.370	0.258	-0.412	0.385	-0.219	-0.598	0.522	1.137	-0.015	0.881	-0.430	-0.174
2019	0.394	0.272	-0.409	0.376	0.306	-0.120	0.891	1.109	-0.244	0.907	-0.498	-0.100
2020	0.374	0.327	-0.369	0.326	-0.099	-0.074	0.913	1.046	-0.415	0.462	-0.669	-2.357
2021	0.374	0.327	-0.369	0.326	-0.099	-0.074	0.913	1.046	-0.415	0.462	-0.669	-2.357
2022	0.374	0.327	-0.369	0.326	-0.099	-0.074	0.913	1.046	-0.415	0.462	-0.669	-2.357
2023	0.374	0.327	-0.369	0.326	-0.099	-0.074	0.913	1.046	-0.415	0.462	-0.669	-2.357