

**Table S8 Summary information for NDVI in 2010.** Normalized difference vegetation index (NDVI) means, standard deviations, midparent values, and ranges of best linear unbiased estimators (BLUES) for the TM-1×NM24106 recombinant inbred line (RIL) population and its two parents under two irrigation regimes, water-limited (WL) and well-watered (WW), in Maricopa, AZ in 2010.

DOY <sup>a</sup>	TOD <sup>b</sup>	Irrigation Regime	Parents			RIL population			
			TM-1	NM24016	Midparent	Mean	Std. Dev	Min.	Max.
182	0700	WL	0.20	0.22	0.21	0.19	0.03	0.12	0.26
		WW	0.15	0.17	0.16	0.17	0.02	0.12	0.24
	0900	WL	0.20	0.21	0.21	0.18	0.03	0.12	0.25
		WW	0.15	0.17	0.16	0.17	0.03	0.08	0.23
217	0700	WL	0.72	0.72	0.72	0.70	0.06	0.39	0.81
		WW	0.75	0.77	0.76	0.78	0.03	0.69	0.84
	1300	WL	0.67	0.71	0.69	0.67	0.08	0.31	0.79
		WW	0.76	0.79	0.77	0.78	0.03	0.68	0.85
224	0700	WL	0.75	0.74	0.75	0.73	0.05	0.52	0.81
		WW	0.76	0.78	0.77	0.79	0.02	0.71	0.84
	1000	WL	0.74	0.74	0.74	0.73	0.05	0.51	0.80
		WW	0.77	0.79	0.78	0.79	0.02	0.73	0.84
	1300	WL	0.69	0.72	0.70	0.70	0.07	0.38	0.79
		WW	0.77	0.80	0.78	0.79	0.03	0.73	0.85
231	0700	WL	0.78	0.78	0.78	0.78	0.03	0.65	0.82
		WW	0.78	0.80	0.79	0.80	0.02	0.74	0.85
	1000	WL	0.78	0.79	0.79	0.78	0.04	0.63	0.84
		WW	0.79	0.81	0.80	0.81	0.02	0.74	0.86
	1300	WL	0.78	0.79	0.78	0.77	0.04	0.62	0.83
		WW	0.79	0.81	0.80	0.81	0.02	0.75	0.86

a. DOY, day of year – Julian calendar.

b. TOD, time of day within the day of year – MST.