

## Supplementary Material

## مواد تکمیلی

جدول تکمیلی ۱. میانگین صفات مورد بررسی در ژنوتیپ‌های ذرت تحت شرایط بهینه فسفر

Supplementary Table 1. Average of studied traits in maize genotypes under optimal phosphorus conditions

Genotype	Trait											
	RWC	LCT	SPAD	FLL	FLW	EUL	TL	LA	EH	TH	PH	SD
Ma001	83.26	37.24	35.13	40.33	5.67	5.67	12.00	141.00	76.00	204.00	168.00	24.55
Ma002	83.46	33.67	52.43	36.00	4.67	4.67	12.00	143.00	84.33	218.00	176.67	20.78
Ma003	83.99	37.25	44.90	37.00	5.00	5.00	12.00	147.33	82.67	222.00	185.67	21.40
Ma004	76.20	35.62	44.70	41.00	4.67	6.00	11.67	150.33	69.67	218.67	183.00	23.38
Ma005	80.02	33.89	52.57	39.67	5.33	5.33	12.00	140.67	78.33	227.00	208.33	20.37
Ma006	79.24	32.00	57.80	37.00	6.33	5.33	10.67	148.00	86.33	232.67	202.33	22.45
Ma007	77.72	34.29	41.27	40.33	5.00	6.00	13.00	146.67	103.33	257.33	224.33	23.28
Ma008	78.24	35.59	52.20	43.00	4.67	5.67	11.33	141.67	88.00	245.33	207.33	22.17
Ma009	81.98	33.72	47.37	41.33	6.33	5.00	12.00	134.00	102.67	236.00	200.33	23.73
Ma010	72.81	32.92	54.47	40.67	5.67	4.67	12.33	140.00	95.00	223.00	181.33	23.66
Ma011	86.12	33.83	46.20	43.67	5.67	5.33	11.33	142.00	93.67	237.00	197.67	22.94
Ma012	83.55	35.32	49.37	39.00	6.00	5.00	11.67	138.33	94.67	221.00	185.33	23.10
Ma013	82.55	34.83	40.20	38.33	5.00	4.67	11.33	143.33	106.00	236.67	200.33	23.81
Ma014	80.90	35.00	37.10	29.00	4.00	5.67	12.33	136.33	83.67	224.33	189.00	22.84
Ma015	68.53	32.82	40.73	29.67	5.00	5.33	12.00	146.00	92.67	220.00	190.67	23.98
Ma016	73.09	36.43	37.83	31.67	5.00	4.33	10.00	146.67	71.67	190.67	157.00	20.72
Ma017	76.23	42.09	40.97	40.33	5.33	4.67	10.67	138.33	69.33	202.67	162.67	23.89
Ma018	80.15	37.64	41.33	41.33	6.00	4.67	9.67	127.00	93.00	226.33	187.00	20.27
Ma019	81.41	31.43	63.03	44.33	5.00	5.33	11.00	136.00	78.00	224.00	167.00	20.87
Ma020	77.72	38.66	49.00	40.67	6.67	5.00	11.67	133.33	101.00	231.67	192.67	23.25
Ma021	73.76	35.29	51.57	48.67	5.67	5.00	11.67	128.67	106.00	248.33	210.33	22.18
Ma022	81.24	31.52	51.23	38.67	6.00	5.00	11.00	135.33	103.67	228.67	195.67	22.01
Ma023	78.28	31.87	43.47	34.00	5.00	5.00	12.33	145.00	96.33	226.00	201.33	23.70
Ma024	83.06	32.15	44.73	37.33	5.00	5.67	12.00	141.00	115.33	251.00	218.00	28.49
Ma025	83.43	31.94	50.70	41.33	6.33	5.00	12.00	147.67	111.33	243.33	207.00	23.01
Ma026	82.91	32.51	49.47	38.67	6.00	4.67	11.00	135.67	112.33	235.33	197.67	21.21
Ma027	78.39	30.87	50.33	44.33	6.00	5.00	12.00	129.67	95.00	238.67	200.33	23.47
Ma028	83.27	32.70	74.20	35.00	5.33	5.00	11.67	126.00	120.67	252.67	217.67	23.70
Ma030	86.49	32.71	42.77	40.00	5.33	5.00	10.33	139.00	89.67	218.00	181.00	24.00
Ma031	80.57	32.19	38.17	34.33	4.00	5.00	12.00	122.67	73.00	190.00	155.00	22.05
Ma032	80.87	33.20	36.17	28.33	3.33	5.00	12.33	140.00	74.33	174.67	152.33	17.64
Ma033	81.46	33.07	46.77	34.33	4.33	5.00	10.67	150.33	71.00	176.33	147.67	18.23
Ma034	77.78	31.79	41.93	24.67	3.33	4.33	9.00	132.00	45.67	157.33	119.67	19.64
Ma035	76.07	32.06	44.77	29.33	4.67	6.00	13.67	152.00	81.67	207.33	181.00	22.36
Ma036	82.45	32.14	38.50	31.67	3.67	5.33	13.00	122.33	86.33	199.67	167.00	25.29
Ma037	76.49	31.81	43.77	34.67	4.67	4.67	11.67	148.33	78.67	199.00	169.33	21.65
Ma038	82.94	31.52	47.27	25.33	3.00	5.00	10.00	129.00	59.00	195.67	169.00	15.98
Ma039	78.87	30.06	56.40	32.67	5.00	5.67	11.00	137.00	83.67	213.00	183.33	20.32
Ma040	81.23	31.93	49.80	30.00	3.67	5.00	10.33	150.67	78.33	204.67	173.67	20.33
Ma042	82.94	31.03	49.47	27.67	5.00	5.00	11.00	149.33	62.00	188.00	161.67	16.60
Ma043	81.23	31.18	47.63	44.33	5.33	5.00	11.33	150.67	114.67	224.00	195.00	16.05
Ma044	82.57	29.50	50.73	38.00	5.33	5.33	12.00	136.33	105.67	241.33	199.67	19.64
Ma045	76.69	32.12	58.00	33.00	4.00	5.67	12.67	154.67	96.33	223.67	202.00	19.05
Ma046	73.28	31.86	47.80	29.67	4.33	6.67	13.00	122.33	74.00	201.33	176.33	20.81
Ma048	80.80	32.38	40.17	54.33	5.67	4.67	11.67	148.33	95.33	220.67	178.67	22.46
Ma049	81.46	31.92	39.80	33.67	4.33	5.00	11.00	122.33	61.67	147.67	122.00	21.90
Ma050	81.70	30.91	57.57	26.00	3.33	5.00	8.00	151.33	35.00	169.00	137.33	12.64

Supplementary Table 1. Continued

Genotype	Trait											
	RWC	LCT	SPAD	FLL	FLW	EUL	TL	LA	EH	TH	PH	SD
Ma051	74.92	32.28	51.33	31.67	4.00	5.00	9.33	148.33	50.33	153.67	131.67	20.21
Ma052	75.81	31.93	56.77	34.33	3.00	4.67	10.67	146.67	74.67	178.67	152.67	23.57
Ma053	78.94	33.14	32.90	35.00	5.33	5.67	14.00	146.33	103.33	241.00	199.67	26.85
Ma054	83.41	35.34	36.23	36.33	4.33	5.00	12.00	146.00	67.00	165.00	138.33	21.48
Ma055	85.18	31.91	39.37	26.00	3.67	5.00	12.00	130.00	71.33	171.33	146.33	18.58
Ma057	76.43	31.50	56.37	29.33	4.67	4.67	10.00	134.33	61.00	175.33	154.33	14.29
Ma060	82.88	32.49	45.73	49.00	5.33	6.33	15.33	149.00	145.67	251.67	217.00	21.56
Ma062	88.13	31.39	49.00	27.67	4.67	4.00	10.00	139.33	74.67	186.33	160.67	17.96
Ma064	86.38	33.61	48.97	41.00	5.00	5.33	12.00	147.00	101.33	231.00	192.33	26.29
Ma065	81.68	31.06	44.53	33.33	4.33	5.33	10.33	136.00	81.00	222.33	186.67	20.14
Ma066	90.83	31.49	52.47	35.33	4.67	5.00	11.33	122.00	77.67	233.33	186.67	20.27
Ma072	87.70	31.08	60.43	42.00	5.67	4.33	10.00	128.00	83.67	174.67	146.33	19.49
Ma073	80.29	33.73	48.53	42.33	5.00	4.67	11.67	147.67	97.33	202.00	166.67	20.36
Ma074	86.27	31.82	60.57	39.00	5.33	6.33	10.67	131.67	54.33	171.67	136.33	17.59
Ma075	87.48	30.71	56.13	31.00	3.67	5.33	9.67	146.67	44.33	168.00	144.00	16.84
Ma076	84.19	31.56	38.77	33.33	6.00	5.33	11.33	156.67	67.33	185.33	154.33	24.07
Ma077	86.25	33.74	79.07	30.00	3.67	6.00	13.00	156.00	67.33	188.00	161.00	27.66
Ma079	83.48	31.64	73.60	38.00	4.67	5.00	9.67	144.67	52.67	165.33	137.67	15.95
Ma080	85.05	32.01	42.67	43.33	4.00	5.00	11.33	147.67	88.00	211.67	183.33	25.75
Ma083	79.13	30.81	48.40	32.00	4.00	5.00	9.67	145.00	54.33	154.00	125.33	17.42
Ma085	81.50	31.11	40.13	34.00	4.33	4.33	10.33	145.67	69.67	173.00	143.33	23.02
Ma089	86.78	31.32	49.83	32.33	4.33	5.67	12.67	139.67	59.67	179.67	151.67	21.25
Ma091	75.37	30.71	41.80	27.67	3.67	5.67	12.67	151.67	71.00	193.67	159.33	23.94
Ma096	81.11	31.84	42.20	25.33	4.00	5.00	12.00	123.67	65.33	169.00	144.33	18.38
Ma098	84.51	31.69	54.47	31.67	4.00	5.33	10.00	153.33	38.00	140.33	107.33	19.28
Ma100	83.14	33.10	72.00	39.33	5.67	5.00	11.67	150.67	75.67	175.00	146.33	16.74
Ma104	77.18	31.74	47.93	44.00	5.00	5.00	12.33	156.67	70.67	194.67	158.00	23.91
Ma105	86.06	33.95	41.23	43.00	5.67	5.00	11.33	143.33	93.33	235.33	194.00	23.21
Ma106	77.80	30.73	36.93	26.33	3.67	4.67	10.00	138.33	52.67	141.67	113.00	19.57
Ma107	82.37	31.58	37.97	32.33	4.33	5.33	9.67	144.33	43.00	145.33	112.67	17.48
Ma108	81.50	33.78	39.80	37.67	4.00	5.33	12.67	140.00	82.00	193.33	153.67	21.46
Ma109	86.05	31.63	40.73	37.67	4.67	6.33	12.67	153.67	75.67	213.67	182.33	18.79
Ma110	85.08	31.90	39.03	33.00	4.33	5.67	11.33	146.00	56.33	166.33	136.00	22.61
Ma111	79.36	32.56	45.73	38.00	5.33	5.33	12.33	128.67	74.67	203.67	166.67	21.28
Ma112	78.57	32.61	47.20	30.00	4.33	5.67	13.00	150.67	107.33	222.67	192.00	22.54
Ma113	78.46	33.88	39.40	34.00	4.67	5.33	12.00	145.00	86.33	213.67	185.00	25.93
Ma114	81.54	32.76	42.43	40.00	5.33	5.67	13.33	162.00	88.67	208.67	176.00	27.66
Ma115	84.48	30.68	43.67	43.67	5.00	5.00	11.00	143.00	66.67	207.33	170.00	20.03
Ma116	83.45	33.19	34.77	37.00	4.67	6.00	13.00	150.00	107.67	241.00	213.00	27.23
Ma117	85.50	31.98	40.83	33.67	4.33	4.67	10.00	132.67	65.33	174.33	138.67	20.51
Ma118	82.33	31.45	38.67	42.33	4.67	5.33	11.33	148.00	84.67	234.00	195.67	18.75
Ma119	75.74	30.41	44.13	41.67	5.33	4.67	10.67	146.33	89.67	223.33	186.33	24.79
Ma120	83.34	31.32	34.57	34.67	4.67	5.00	10.33	150.00	69.33	170.33	139.00	20.70
Ma121	81.89	29.53	47.27	32.67	5.67	6.67	13.33	153.00	93.33	233.33	207.00	22.45
Ma122	79.69	31.32	39.03	39.67	5.33	5.67	12.67	146.33	101.33	222.67	181.67	23.98
Ma123	84.02	31.60	44.57	37.00	4.67	5.33	11.67	144.00	75.67	205.33	164.33	21.62
LSD 5%	6.79	2.37	10.25	8.10	1.18	0.96	1.38	6.59	16.94	22.44	21.11	3.07

RWC: Relative water content; LCT: Leaf canopy temperature; SPAD: SPAD (Soil Plant Analysis Development) leaf greenness index; FLL: Flag leaf length; FLW: Flag leaf width; EUL: Ear-up leaves; TL: Total leaves; LA: Leaf angle; EH: Ear height; TH: Tassel height; PH: Plant height; SD: Stem diameter; PL: Peduncle length; BN: Branches number; EL: Ear length; ED: Ear diameter; CD: Cob diameter; EW: Ear wood weight; HGW: 100-grain weight; GY: Grain yield; BY: Biological yield; WETH: Weight of ear together with husk; WEWH: Weight of ear without husk; P%: Phosphorus percentage. LSD: Least significant difference.

Supplementary Table 1. Continued

Genotype	Trait											
	PL	BN	EL	ED	CD	EW	HGW	GY	BY	WETH	WEWH	P%
Ma001	8.67	6.67	18.10	43.16	27.33	34.83	32.63	149.00	415.33	230.00	217.33	0.69
Ma002	13.67	6.33	20.33	44.15	24.42	27.13	32.30	169.63	436.00	216.67	207.00	1.47
Ma003	14.33	6.00	18.83	45.89	26.00	25.87	33.90	179.23	297.33	213.00	204.00	0.89
Ma004	13.33	8.33	21.00	43.83	25.72	26.87	36.97	171.47	345.67	209.17	199.33	0.93
Ma005	9.67	11.67	19.37	49.22	28.03	30.63	46.10	185.23	272.00	212.33	199.33	0.92
Ma006	16.00	11.00	18.43	45.17	25.54	24.00	38.37	166.70	328.67	229.67	217.33	0.92
Ma007	14.33	6.00	21.90	48.07	26.51	35.43	40.00	239.03	390.33	282.50	264.00	1.54
Ma008	14.00	6.33	18.97	42.73	25.38	27.00	28.17	149.97	270.33	192.33	180.67	0.82
Ma009	10.00	6.67	17.80	50.19	30.43	33.60	14.80	189.07	323.67	241.00	230.00	0.81
Ma010	13.00	9.00	19.73	43.52	27.78	29.67	35.77	171.07	489.33	233.67	228.67	0.83
Ma011	17.33	6.00	20.03	46.53	26.77	29.63	32.47	157.33	469.33	204.67	196.00	1.24
Ma012	11.67	9.33	18.17	45.81	28.82	25.47	35.93	128.90	352.67	245.00	234.33	0.97
Ma013	12.33	8.33	18.27	41.29	24.54	24.20	36.60	126.27	448.00	255.33	240.00	1.19
Ma014	14.67	5.33	16.50	47.28	28.07	26.33	29.20	130.63	265.33	212.33	203.67	1.01
Ma015	13.00	7.00	17.47	43.70	27.11	26.70	32.47	134.77	321.00	244.67	190.00	0.86
Ma016	11.50	4.00	16.40	38.97	24.48	19.47	31.90	99.90	183.33	124.33	118.33	0.85
Ma017	18.00	4.67	19.43	39.17	24.02	17.70	23.77	120.90	226.00	170.00	156.67	0.79
Ma018	14.00	7.00	19.80	42.62	25.32	27.90	35.73	142.43	241.33	210.17	199.33	0.88
Ma019	11.33	9.67	18.00	41.06	23.19	19.07	33.97	127.37	313.33	167.67	161.33	0.93
Ma020	12.00	9.67	20.50	43.00	26.72	32.73	33.43	148.17	253.67	164.33	157.33	1.05
Ma021	14.00	7.33	22.00	39.92	24.03	24.40	29.97	139.57	450.00	285.33	272.00	1.07
Ma022	11.67	11.33	21.43	44.28	25.88	29.20	30.77	156.10	359.67	275.00	262.00	1.27
Ma023	10.67	13.33	18.13	43.21	28.44	28.57	30.00	140.57	294.33	258.00	241.67	1.20
Ma024	12.00	8.00	24.13	43.75	26.91	35.67	32.77	174.53	382.67	259.67	247.00	0.91
Ma025	12.00	10.33	21.03	50.53	30.74	40.70	34.53	216.13	356.33	266.33	246.67	1.31
Ma026	11.67	8.33	22.00	48.13	26.92	34.27	43.07	234.50	341.33	230.67	221.33	0.81
Ma027	14.00	10.33	20.57	45.46	25.23	29.43	35.27	212.00	374.33	288.00	245.67	0.98
Ma028	14.67	10.67	21.63	50.50	29.03	42.20	36.33	220.77	392.00	283.00	266.00	0.90
Ma030	9.50	7.00	19.37	37.81	22.06	16.03	37.27	95.43	214.67	94.67	82.67	1.86
Ma031	12.00	4.00	12.63	45.50	28.86	19.80	37.43	84.83	155.00	109.33	103.33	0.99
Ma032	7.67	8.00	9.63	42.15	25.38	9.67	25.53	51.23	172.67	92.83	82.33	0.65
Ma033	9.33	7.33	12.00	39.26	23.06	13.17	26.20	71.70	182.33	118.67	111.00	0.91
Ma034	9.00	9.67	15.23	36.53	22.83	11.13	27.93	60.23	126.00	77.33	70.33	0.88
Ma035	11.67	6.67	13.53	47.28	28.96	27.13	26.17	91.30	197.00	104.67	78.00	1.59
Ma036	13.33	6.33	12.83	43.18	28.16	20.67	27.23	86.95	248.33	156.67	151.00	1.18
Ma037	11.00	12.67	14.43	44.63	25.34	16.57	23.33	124.73	194.67	123.33	110.00	0.95
Ma038	22.83	7.00	11.13	38.75	22.89	14.63	28.57	51.33	113.67	65.00	58.67	0.93
Ma039	15.00	9.67	14.23	34.99	23.07	19.87	23.73	80.87	180.67	118.00	105.33	1.28
Ma040	11.33	13.00	13.60	41.87	24.81	11.50	28.20	98.77	178.33	118.33	111.00	1.05
Ma042	8.33	13.33	11.60	38.70	24.46	11.10	29.07	68.93	146.67	83.33	71.33	1.21
Ma043	9.00	11.00	16.33	32.55	21.76	16.23	27.63	54.83	182.67	119.33	106.00	0.84
Ma044	12.00	9.67	17.47	40.51	23.63	19.70	16.60	108.03	203.00	155.00	146.33	0.95
Ma045	9.33	6.00	11.67	43.13	27.05	18.63	27.77	77.43	158.00	143.67	124.67	1.53
Ma046	10.00	12.33	12.90	44.84	25.44	14.13	24.57	95.63	191.00	137.00	130.33	1.86
Ma048	8.33	16.00	17.50	35.24	25.51	23.13	23.93	66.33	167.67	110.67	100.33	1.04
Ma049	9.33	12.67	13.57	39.27	23.01	15.70	17.43	77.27	182.00	101.00	81.33	0.94
Ma050	7.33	7.00	9.03	37.53	25.47	12.23	19.70	34.73	130.33	68.67	59.67	1.34

Supplementary Table 1. Continued

Genotype	Trait											
	PL	BN	EL	ED	CD	EW	HGW	GY	BY	WETH	WEWH	P%
Ma051	11.00	4.67	12.13	42.32	29.27	14.90	23.57	54.73	145.33	82.00	77.33	1.74
Ma052	9.33	9.67	15.60	35.10	24.06	17.53	27.73	63.80	175.67	103.33	84.33	1.03
Ma053	9.67	9.67	18.67	49.02	28.05	29.27	31.70	155.57	297.10	218.00	207.33	0.84
Ma054	10.00	8.00	16.30	36.82	22.32	13.67	34.33	67.63	158.33	120.00	112.00	1.87
Ma055	5.33	7.33	11.00	43.94	26.93	12.70	28.73	72.03	167.33	105.67	100.00	0.81
Ma057	12.00	3.00	13.97	39.08	24.80	16.30	22.87	80.15	167.33	118.50	95.67	1.30
Ma060	6.33	15.33	15.93	36.89	27.85	21.80	35.33	45.71	273.33	132.33	87.00	1.25
Ma062	9.67	5.33	16.43	39.21	23.68	21.60	25.20	106.50	168.33	122.00	112.33	0.99
Ma064	11.67	8.33	21.57	50.24	30.71	51.80	28.87	200.67	376.87	242.33	226.00	1.53
Ma065	11.33	9.67	14.47	42.23	30.03	33.50	38.10	96.00	122.67	63.00	51.00	1.41
Ma066	11.67	13.67	22.57	45.13	25.96	27.13	31.53	170.87	240.33	184.00	175.00	1.02
Ma072	8.67	5.33	16.10	42.38	26.76	21.97	32.47	120.70	178.33	110.17	103.67	1.11
Ma073	14.67	6.00	19.97	39.66	25.03	20.93	32.80	130.30	275.00	158.00	142.67	1.42
Ma074	6.67	11.00	18.37	42.94	26.94	20.40	26.87	65.13	203.80	169.33	148.00	1.19
Ma075	9.67	9.00	18.40	42.00	25.11	25.73	31.50	91.13	139.00	93.00	85.67	0.88
Ma076	8.67	7.33	14.83	43.09	26.54	20.90	28.27	100.17	233.00	155.00	133.00	1.06
Ma077	7.17	6.67	15.90	42.37	26.54	21.33	32.07	108.17	191.33	110.00	100.33	1.40
Ma079	11.00	3.33	13.40	33.81	22.64	11.93	27.73	52.53	104.33	87.67	80.33	1.44
Ma080	9.33	5.67	15.33	40.15	25.06	16.97	21.67	81.07	265.67	176.00	157.00	1.91
Ma083	7.33	3.33	13.90	36.33	22.60	13.70	31.53	67.40	181.00	141.67	117.67	1.18
Ma085	7.00	15.00	15.77	30.29	20.17	15.57	23.33	60.40	141.00	73.67	62.17	1.12
Ma089	10.67	10.67	12.23	38.33	24.94	8.40	25.00	77.80	179.33	129.00	111.67	1.17
Ma091	9.67	8.67	16.37	47.25	33.31	22.27	27.50	76.23	176.67	103.50	91.67	1.75
Ma096	5.67	9.67	13.73	40.96	24.53	19.80	26.77	81.83	158.33	122.33	112.33	1.30
Ma098	12.33	10.00	13.43	37.85	23.60	8.90	16.80	46.00	137.00	84.33	76.33	1.07
Ma100	9.33	7.33	11.70	42.07	25.42	15.30	34.40	99.50	146.67	97.33	82.00	1.21
Ma104	10.33	9.33	19.80	39.84	28.32	30.53	33.60	128.00	263.00	143.00	115.33	1.05
Ma105	10.33	8.33	16.20	45.43	26.35	28.07	35.90	121.07	227.33	150.67	135.67	1.07
Ma106	3.33	3.33	12.67	39.13	22.47	12.70	26.87	57.03	126.00	95.33	84.67	0.87
Ma107	3.17	8.33	13.00	37.77	22.43	13.77	29.70	58.33	164.67	97.50	84.67	0.86
Ma108	6.33	8.00	19.10	38.89	23.33	27.07	27.90	114.27	173.67	95.33	79.67	0.88
Ma109	8.67	8.67	16.43	41.32	23.75	21.73	27.80	119.17	210.33	153.00	135.67	1.06
Ma110	8.00	5.33	15.43	37.18	23.12	17.70	22.00	86.37	187.67	134.33	113.00	0.88
Ma111	10.00	13.33	20.07	42.50	26.05	25.23	29.03	120.67	227.67	152.00	131.33	1.01
Ma112	8.00	12.67	16.27	43.20	25.48	18.00	29.20	107.80	235.00	148.00	137.00	0.98
Ma113	7.00	7.33	13.07	40.15	27.35	17.37	31.47	73.37	214.90	126.00	98.17	0.97
Ma114	8.33	13.00	16.27	42.35	25.49	22.30	32.03	118.27	250.67	150.67	138.33	0.81
Ma115	11.33	12.67	18.03	40.83	26.07	17.17	29.30	99.70	173.67	109.33	101.33	0.89
Ma116	9.33	13.00	17.63	42.28	25.02	26.13	38.37	149.18	279.23	186.00	164.67	1.27
Ma117	9.00	7.33	14.53	41.82	26.75	24.00	31.37	67.90	161.33	109.67	92.33	1.43
Ma118	12.00	12.00	19.33	39.09	25.62	27.30	32.07	103.30	178.67	116.67	104.83	0.94
Ma119	9.00	10.00	19.50	39.99	27.50	31.17	40.27	117.50	254.67	163.67	136.67	1.49
Ma120	3.67	7.33	13.07	39.64	26.14	19.33	28.90	78.07	155.67	93.00	80.00	1.27
Ma121	13.67	12.67	15.20	48.19	28.34	28.17	30.27	112.40	250.33	144.67	122.67	1.03
Ma122	6.00	11.67	18.37	45.96	27.24	31.53	29.20	155.63	311.67	183.33	166.33	1.24
Ma123	8.00	8.67	17.07	46.80	27.98	28.07	35.13	145.73	205.23	165.00	151.67	0.94
LSD 5%	2.88	2.91	3.01	5.18	3.39	9.13	6.88	36.73	67.06	69.21	66.36	1.31

RWC: Relative water content; LCT: Leaf canopy temperature; SPAD: SPAD (Soil Plant Analysis Development) leaf greenness index; FLL: Flag leaf length; FLW: Flag leaf width; EUL: Ear-up leaves; TL: Total leaves; LA: Leaf angle; EH: Ear height; TH: Tassel height; PH: Plant height; SD: Stem diameter; PL: Peduncle length; BN: Branches number; EL: Ear length; ED: Ear diameter; CD: Cob diameter; EW: Ear wood weight; HGW: 100-grain weight; GY: Grain yield; BY: Biological yield; WETH: Weight of ear together with husk; WEWH: Weight of ear without husk; P%: Phosphorus percentage. LSD: Least significant difference.

## جدول تکمیلی ۲. میانگین صفات مورد بررسی در ژنوتیپ‌های ذرت تحت شرایط تنش کمبود فسفر

Supplementary Table 2. Average of studied traits in maize genotypes under phosphorus deficiency stress conditions

Genotype	Trait											
	RWC	LCT	SPAD	FLL	FLW	EUL	TL	LA	EH	TH	PH	SD
Ma001	77.85	34.39	30.93	37.67	4.50	5.33	11.33	131.00	66.67	198.67	148.33	19.89
Ma002	77.18	32.69	25.40	27.67	3.67	4.00	11.33	141.67	71.67	196.67	159.33	19.01
Ma003	81.52	33.30	28.70	34.67	4.33	4.00	11.00	144.00	76.00	198.00	165.67	19.43
Ma004	75.60	32.32	23.83	35.67	4.13	5.00	10.67	135.00	60.67	204.00	166.67	19.45
Ma005	73.65	31.64	34.67	38.67	4.33	5.00	11.00	130.33	69.67	206.00	170.00	18.18
Ma006	76.17	29.47	28.50	33.67	5.23	5.00	10.33	140.00	70.67	214.67	186.00	19.25
Ma007	86.32	31.70	29.87	33.33	3.87	5.67	12.33	138.33	90.67	239.00	199.67	18.97
Ma008	74.68	33.29	35.93	35.00	4.63	5.00	10.00	138.00	78.00	194.00	191.00	19.63
Ma009	79.13	31.13	38.30	36.33	5.17	5.00	11.33	123.67	91.33	220.33	183.67	21.58
Ma010	71.60	31.73	38.27	34.67	4.93	4.33	10.67	135.00	84.67	221.00	175.67	21.10
Ma011	83.56	30.89	34.03	29.67	4.13	4.67	10.33	132.67	74.00	230.67	190.67	18.29
Ma012	79.08	31.20	29.70	35.67	5.73	4.67	10.00	125.00	83.00	206.33	171.67	20.03
Ma013	78.35	30.99	29.70	31.00	4.67	4.33	9.67	131.00	80.33	209.00	172.33	20.96
Ma014	80.97	30.43	27.53	27.00	3.17	4.33	10.00	133.33	72.33	211.67	177.67	19.45
Ma015	75.76	28.96	26.67	29.00	4.37	4.67	10.00	140.00	70.00	210.33	184.00	17.18
Ma016	74.88	30.25	36.43	26.67	3.80	3.67	8.67	135.33	53.33	168.67	136.00	17.61
Ma017	79.93	32.73	35.93	38.33	4.33	4.00	9.33	133.33	62.00	191.00	157.00	19.22
Ma018	70.54	31.93	28.83	37.67	4.83	4.00	9.33	121.33	74.67	204.67	169.67	17.54
Ma019	73.00	30.41	37.23	38.67	4.30	4.67	10.00	134.67	56.00	166.00	160.33	18.67
Ma020	77.03	33.62	39.57	28.67	4.13	4.33	10.00	130.33	87.67	218.00	186.33	18.89
Ma021	84.87	32.63	24.17	44.00	5.10	5.00	11.00	123.00	77.33	237.00	185.00	20.46
Ma022	74.06	30.64	42.03	33.33	4.67	4.67	11.00	131.33	91.33	217.33	183.33	19.93
Ma023	76.64	29.70	34.37	28.67	4.60	5.00	11.00	143.67	89.00	213.33	192.00	19.73
Ma024	82.97	29.78	42.70	35.00	4.43	5.00	11.00	133.00	97.33	240.33	206.33	21.09
Ma025	83.19	29.77	34.80	36.67	5.33	4.67	10.67	143.67	98.00	224.33	190.00	20.27
Ma026	82.47	29.50	39.13	30.00	4.03	4.67	10.00	116.33	86.67	224.00	188.33	16.23
Ma027	79.45	28.81	39.30	28.17	4.20	4.33	10.33	122.33	91.33	221.33	185.00	22.15
Ma028	80.89	30.26	39.03	25.33	3.53	4.67	11.33	111.00	103.00	241.67	204.67	20.29
Ma030	83.56	31.59	33.13	30.33	4.17	4.33	9.67	136.00	67.00	200.00	166.33	18.98
Ma031	70.78	30.42	19.30	25.83	2.60	4.33	10.00	117.67	62.33	182.00	146.67	17.47
Ma032	77.36	31.20	24.50	24.67	3.13	3.67	9.67	133.67	43.67	138.00	116.33	12.93
Ma033	80.14	30.79	29.13	29.33	3.87	4.33	8.67	153.00	51.67	162.33	132.00	15.72
Ma034	76.70	30.29	33.53	27.33	3.60	4.00	8.33	123.00	44.33	139.33	107.67	18.10
Ma035	74.20	30.17	31.23	25.00	3.33	5.67	11.67	148.33	59.33	179.33	157.33	17.53
Ma036	77.19	30.14	24.63	28.00	3.03	4.33	11.00	116.67	60.00	173.00	143.33	20.91
Ma037	75.90	30.31	27.67	28.00	3.53	4.33	10.33	143.00	66.67	179.67	155.00	16.69
Ma038	73.98	29.36	40.70	21.00	2.37	4.33	9.67	123.67	51.33	166.00	142.67	12.37
Ma039	72.41	27.71	47.33	27.00	3.23	5.00	10.67	125.00	71.33	189.00	159.67	16.14
Ma040	80.40	31.18	46.53	29.17	3.50	3.67	9.67	147.33	67.67	188.67	161.00	17.02
Ma042	83.31	30.08	41.50	18.33	3.07	4.67	10.00	145.33	60.00	151.33	124.00	13.51
Ma043	70.80	30.15	21.47	35.00	4.03	4.33	11.33	146.00	109.00	207.67	171.67	13.10
Ma044	77.91	27.94	45.43	34.67	4.73	4.67	11.00	135.00	82.67	211.67	176.00	18.66
Ma045	73.35	29.12	46.87	31.33	3.77	5.00	11.00	149.67	74.67	164.00	143.33	17.61
Ma046	78.81	30.57	44.43	25.67	3.90	5.33	12.00	114.67	60.33	170.33	146.33	18.15
Ma048	74.62	30.07	36.33	42.33	4.57	4.00	10.67	146.00	80.33	172.00	136.00	18.05
Ma049	80.30	29.90	21.67	27.00	3.20	3.33	7.33	114.33	43.33	84.67	84.67	13.05
Ma050	79.27	29.58	54.30	19.67	2.17	4.33	7.33	145.33	19.33	101.00	101.00	10.02

Supplementary Table 2. Continued

Genotype	Trait											
	RWC	LCT	SPAD	FLL	FLW	EUL	TL	LA	EH	TH	PH	SD
Ma051	72.88	31.08	40.97	29.33	3.67	4.33	8.33	133.33	36.33	113.00	113.00	16.78
Ma052	73.03	30.61	33.03	30.33	2.70	3.67	9.00	132.67	61.33	170.67	149.33	18.00
Ma053	77.00	31.05	27.70	31.33	4.07	5.67	13.00	127.33	89.00	205.00	171.67	22.47
Ma054	80.57	32.00	26.60	31.67	3.67	4.00	10.33	138.33	53.00	158.67	131.00	18.30
Ma055	63.07	30.22	34.60	23.67	3.17	3.67	9.33	123.67	69.00	159.67	134.33	12.34
Ma057	77.71	28.83	44.47	27.67	3.73	4.00	9.00	127.00	56.00	158.00	137.00	12.14
Ma060	53.07	31.46	28.63	44.00	4.50	5.33	14.33	143.67	116.33	226.33	189.00	19.47
Ma062	86.24	30.25	43.00	23.00	3.73	4.00	9.33	136.00	75.00	170.00	148.00	14.31
Ma064	87.20	31.61	46.93	32.00	3.37	4.67	11.67	142.00	90.67	214.67	177.67	22.16
Ma065	80.94	30.08	41.97	25.00	2.77	5.00	10.33	130.00	61.00	174.00	142.33	17.74
Ma066	84.35	30.42	43.47	23.67	3.13	4.67	10.33	117.00	67.00	216.00	174.33	18.90
Ma072	80.55	30.01	37.07	28.50	3.57	4.00	9.33	114.67	65.00	150.67	121.67	16.79
Ma073	72.88	32.39	32.10	34.17	3.90	4.00	11.33	142.00	86.00	199.67	161.00	20.14
Ma074	83.15	30.51	29.70	25.17	3.30	6.00	11.00	125.00	49.67	166.33	127.67	14.87
Ma075	76.81	30.16	37.90	26.50	3.47	5.00	8.00	145.67	37.33	162.33	139.67	14.43
Ma076	82.13	29.50	23.87	29.50	4.63	5.00	9.00	155.67	55.67	174.33	147.67	18.38
Ma077	83.38	30.72	29.70	24.00	3.13	5.67	11.00	143.00	61.00	175.00	151.33	22.48
Ma079	72.04	30.81	32.73	28.67	2.77	4.00	8.00	130.67	46.67	148.00	121.33	13.51
Ma080	83.92	30.78	39.27	39.67	3.40	4.00	10.33	146.00	83.67	174.00	149.00	20.27
Ma083	70.10	29.54	42.27	21.67	3.00	4.33	8.67	140.33	44.67	143.00	111.67	15.09
Ma085	78.37	28.69	34.73	27.67	3.87	4.00	10.00	143.00	62.67	159.67	134.00	18.73
Ma089	84.11	30.21	32.60	25.00	3.30	5.67	11.67	134.67	56.67	176.00	147.00	18.86
Ma091	78.57	29.06	38.20	20.67	2.47	5.33	12.00	147.33	63.33	166.67	142.33	19.79
Ma096	83.68	29.97	38.93	18.00	3.03	5.00	9.33	122.33	46.67	132.00	107.67	14.62
Ma098	82.26	29.51	48.40	23.67	2.53	4.00	8.00	148.33	30.33	124.67	92.00	14.39
Ma100	75.18	31.02	49.00	33.67	4.77	4.67	11.00	147.00	61.67	125.33	107.00	14.22
Ma104	71.71	30.81	45.93	36.67	4.40	5.00	11.33	154.67	60.00	141.00	110.00	20.47
Ma105	80.25	32.56	37.90	37.33	4.13	4.67	10.67	136.33	86.67	224.67	185.00	21.93
Ma106	71.84	29.48	36.33	21.33	2.93	4.33	8.67	136.00	49.33	123.00	96.67	15.81
Ma107	78.57	30.44	36.57	30.67	3.57	4.67	8.33	142.67	42.67	122.67	96.00	16.45
Ma108	78.11	32.61	30.87	24.33	3.03	4.67	12.67	134.00	74.00	178.67	140.67	19.78
Ma109	71.36	30.72	31.13	28.00	3.00	5.00	9.67	132.67	67.67	199.00	165.67	15.64
Ma110	79.71	30.84	30.40	26.33	3.67	4.33	9.67	141.00	48.00	153.67	123.00	17.53
Ma111	80.96	31.05	35.50	29.00	3.33	5.00	11.67	123.67	65.33	195.33	160.67	20.08
Ma112	65.37	31.84	25.67	26.33	3.40	4.67	11.33	144.67	80.00	192.67	162.33	18.37
Ma113	72.16	32.99	25.43	30.67	4.23	4.33	11.67	143.33	78.33	187.67	154.33	20.72
Ma114	80.98	29.39	30.43	22.00	4.53	5.00	11.67	155.33	76.33	197.33	166.67	25.21
Ma115	85.80	28.50	38.13	35.00	4.03	4.67	10.67	142.00	58.67	183.00	143.00	18.03
Ma116	68.56	29.07	25.77	25.00	3.93	4.67	11.00	143.33	93.00	223.67	188.67	21.03
Ma117	79.29	29.16	33.90	31.00	3.83	4.00	9.67	126.00	48.67	160.33	134.67	18.61
Ma118	76.72	29.04	30.17	33.00	2.90	5.00	10.33	146.33	50.67	186.67	151.00	17.81
Ma119	72.69	28.69	35.37	35.33	3.83	4.00	8.00	142.67	59.67	172.33	138.67	19.36
Ma120	71.73	28.95	25.30	26.67	3.00	4.33	9.33	147.33	43.33	131.33	104.33	14.72
Ma121	78.58	27.59	32.17	29.00	4.40	5.00	11.67	146.67	69.00	185.33	158.33	20.29
Ma122	75.55	29.31	23.60	31.67	3.57	5.00	12.33	143.00	83.67	191.00	151.67	17.50
Ma123	82.88	29.59	36.20	33.67	4.03	5.00	10.00	139.67	65.33	155.00	124.00	19.32
LSD 5%	11.14	1.89	7.71	7.97	1.05	0.89	1.54	5.87	14.64	28.18	23.55	3.80

RWC: Relative water content; LCT: Leaf canopy temperature; SPAD: SPAD (Soil Plant Analysis Development) leaf greenness index; FLL: Flag leaf length; FLW: Flag leaf width; EUL: Ear-up leaves; TL: Total leaves; LA: Leaf angle; EH: Ear height; TH: Tassel height; PH: Plant height; SD: Stem diameter; PL: Peduncle length; BN: Branches number; EL: Ear length; ED: Ear diameter; CD: Cob diameter; EW: Ear wood weight; HGW: 100-grain weight; GY: Grain yield; BY: Biological yield; WETH: Weight of ear together with husk; WEWH: Weight of ear without husk; P%: Phosphorus percentage. LSD: Least significant difference.

Supplementary Table 2. Continued

Genotype	Trait											
	PL	BN	EL	ED	CD	EW	HGW	GY	BY	WETH	WEWH	P%
Ma001	8.00	6.00	16.37	39.99	24.37	22.68	27.90	122.15	324.00	188.33	169.33	0.5
Ma002	11.33	6.00	17.00	37.88	21.14	15.80	24.43	102.80	212.33	142.67	115.00	0.43
Ma003	11.00	7.33	14.23	36.23	20.39	18.50	24.52	86.53	198.33	116.00	106.00	0.51
Ma004	12.67	9.00	17.90	39.70	22.78	21.63	30.83	121.77	220.67	115.00	101.33	0.62
Ma005	7.67	10.67	15.27	43.12	25.09	25.77	34.10	113.63	245.23	141.00	130.33	0.69
Ma006	14.33	9.33	15.20	39.71	22.83	15.20	31.80	129.33	275.23	162.67	148.33	0.6
Ma007	11.33	6.00	17.23	37.72	21.68	27.20	26.14	113.57	241.13	108.67	96.00	0.66
Ma008	12.67	6.33	15.57	35.95	20.55	18.90	24.67	105.83	241.00	148.33	136.67	0.66
Ma009	8.33	6.67	16.10	43.91	26.34	22.88	30.87	132.18	305.33	202.00	189.33	0.73
Ma010	10.00	7.33	17.57	39.32	23.42	24.53	25.17	144.92	354.67	219.33	207.67	0.49
Ma011	12.00	6.00	17.27	40.65	23.78	20.53	28.07	124.28	308.67	171.00	157.00	0.77
Ma012	9.67	8.33	15.30	38.87	22.80	16.23	24.70	99.13	275.00	156.67	147.33	0.53
Ma013	10.33	8.33	16.10	38.38	22.76	19.47	23.52	103.77	304.00	192.33	181.33	0.56
Ma014	10.33	5.33	13.53	38.48	22.78	13.07	19.40	87.00	201.67	148.67	141.00	0.44
Ma015	11.33	7.00	15.30	41.13	24.17	19.40	24.67	102.88	170.00	150.67	133.67	0.54
Ma016	8.33	3.00	13.90	33.37	20.26	14.63	18.47	67.47	145.00	90.67	82.33	0.61
Ma017	12.50	4.67	16.40	35.36	21.24	15.80	24.60	89.80	159.00	83.33	74.00	0.57
Ma018	12.67	7.00	15.63	36.34	22.58	15.70	23.13	86.37	164.00	78.33	73.00	0.62
Ma019	10.67	6.00	15.63	36.09	19.90	17.90	24.13	92.73	205.67	116.33	107.33	0.72
Ma020	10.33	10.00	16.73	37.00	22.55	17.33	23.30	100.30	227.43	139.33	131.00	0.55
Ma021	10.33	7.67	19.60	35.61	21.36	18.50	23.93	107.37	269.67	186.33	171.67	0.58
Ma022	11.00	11.00	18.83	40.33	21.73	21.63	25.63	141.07	319.00	212.67	199.67	0.45
Ma023	7.33	11.67	12.60	40.90	25.00	19.33	24.93	89.37	235.33	118.00	107.00	0.46
Ma024	12.67	6.00	20.53	41.22	24.18	27.27	28.50	140.02	213.33	160.67	141.00	0.34
Ma025	10.00	9.67	17.40	42.86	24.42	28.07	32.17	127.07	281.80	192.33	178.00	0.57
Ma026	9.33	6.33	15.83	35.52	22.12	15.53	25.07	122.75	258.57	140.67	129.00	0.67
Ma027	11.00	10.33	17.87	38.72	21.14	23.20	27.97	114.17	265.00	170.00	159.00	0.67
Ma028	11.00	11.00	17.80	44.02	25.06	29.67	29.83	124.33	206.80	165.67	151.67	0.69
Ma030	8.33	5.33	16.47	33.87	20.89	12.77	28.22	60.27	137.67	53.00	45.67	0.67
Ma031	11.33	2.67	9.17	36.17	27.27	10.43	15.14	55.30	106.33	49.00	44.00	0.65
Ma032	6.33	4.33	7.93	32.48	22.17	6.60	16.93	30.87	98.67	42.00	23.33	0.49
Ma033	8.00	7.00	8.73	29.13	18.55	6.97	22.73	40.95	119.67	56.00	46.00	0.62
Ma034	8.33	4.67	10.80	29.01	19.76	7.20	18.75	35.80	101.33	56.50	48.50	0.7
Ma035	7.67	5.33	9.50	40.01	26.74	12.47	24.55	51.34	125.67	61.33	42.50	0.68
Ma036	9.33	5.67	10.17	40.97	27.36	12.73	17.33	58.33	148.67	70.67	64.67	0.47
Ma037	7.00	8.67	11.30	36.85	20.78	7.93	22.90	61.78	126.33	58.00	52.00	0.55
Ma038	15.00	6.67	8.87	29.27	18.79	9.47	17.57	35.07	72.67	16.67	8.00	0.43
Ma039	8.00	8.67	12.53	32.44	21.01	15.30	20.03	44.27	139.33	77.83	57.83	0.74
Ma040	11.00	8.67	10.23	36.72	21.00	9.90	25.87	65.47	131.33	72.67	65.67	0.56
Ma042	8.00	8.67	8.37	33.76	23.18	6.80	25.02	41.76	88.67	47.67	37.33	0.67
Ma043	6.67	11.00	14.23	30.66	19.97	10.43	13.07	44.98	147.33	78.33	69.33	0.62
Ma044	10.67	9.67	15.23	38.76	21.64	14.73	23.23	94.27	189.33	124.00	111.00	0.58
Ma045	9.00	4.67	8.87	34.75	23.30	13.27	19.13	26.13	131.67	80.00	60.33	0.61
Ma046	4.33	9.67	9.07	36.20	19.36	6.40	17.25	50.83	118.00	71.83	68.33	0.32
Ma048	5.33	14.67	15.30	31.43	19.71	21.00	13.87	43.63	127.00	63.33	50.00	0.73
Ma049	4.00	1.33	9.20	31.82	21.40	8.20	15.20	37.87	67.00	27.33	24.67	0.6
Ma050	6.67	2.67	5.47	30.79	20.73	6.13	17.51	23.97	71.33	25.00	16.67	0.65

Supplementary Table 2. Continued

Genotype	Trait											
	PL	BN	EL	ED	CD	EW	HGW	GY	BY	WETH	WEWH	P%
Ma051	7.67	3.00	7.37	35.22	23.77	6.93	24.27	29.57	83.00	35.33	30.00	0.67
Ma052	5.00	5.33	10.87	29.08	19.64	14.20	25.87	40.43	140.67	45.83	37.33	0.64
Ma053	8.67	9.67	15.70	39.06	23.27	22.53	28.93	107.77	217.33	161.67	155.00	0.24
Ma054	10.00	4.67	13.77	27.82	20.67	8.93	21.23	52.52	123.00	64.33	59.33	0.8
Ma055	4.67	3.00	9.27	39.85	21.64	10.16	16.10	38.17	79.67	40.33	36.67	0.68
Ma057	10.00	2.33	10.17	35.98	22.83	12.87	30.77	60.43	117.67	81.33	73.00	0.72
Ma060	3.33	13.67	13.10	32.50	22.70	16.47	20.43	33.43	195.33	81.67	49.00	0.53
Ma062	8.33	4.33	11.10	35.85	20.27	10.57	24.90	57.37	133.67	102.00	95.67	0.77
Ma064	7.33	7.67	13.33	42.38	25.21	15.70	31.67	117.66	255.33	172.67	161.33	0.68
Ma065	9.67	11.00	11.87	39.05	20.21	23.53	28.03	49.00	87.87	28.50	20.67	0.77
Ma066	10.67	8.00	17.20	38.81	22.81	16.53	29.65	120.07	173.00	126.67	119.33	0.62
Ma072	6.67	4.67	13.57	36.70	22.37	13.10	21.07	67.50	81.55	47.50	39.33	0.68
Ma073	12.33	6.00	18.00	38.18	24.09	18.43	24.23	111.50	195.00	121.33	111.33	0.64
Ma074	5.67	9.67	10.90	37.61	22.94	13.43	21.07	48.27	119.57	96.67	87.00	0.47
Ma075	9.00	4.33	11.33	39.77	23.82	8.10	17.77	52.27	97.67	53.00	48.17	0.42
Ma076	6.00	4.67	12.47	33.28	20.72	11.17	19.57	80.53	189.00	104.00	94.67	0.71
Ma077	6.67	5.67	12.90	34.47	21.98	15.00	23.53	63.37	125.67	53.67	48.00	0.65
Ma079	10.67	2.67	12.27	31.18	20.57	9.73	15.33	36.62	60.00	50.00	40.83	0.34
Ma080	9.00	5.33	13.33	32.80	21.74	11.43	21.20	49.10	181.00	126.33	117.67	0.56
Ma083	6.00	3.00	12.63	33.59	21.50	10.53	20.53	61.80	152.33	87.00	77.67	0.74
Ma085	7.33	14.33	11.40	28.08	17.89	8.24	12.70	38.63	117.00	53.33	38.67	0.68
Ma089	10.67	10.67	9.83	33.36	21.91	8.10	19.83	43.23	126.00	67.33	55.33	0.64
Ma091	10.33	8.33	14.30	36.92	24.61	14.10	23.93	60.53	163.67	85.00	70.33	0.59
Ma096	5.00	6.00	10.70	33.13	22.46	11.30	20.80	55.63	109.00	77.00	66.67	0.59
Ma098	9.67	10.00	11.07	31.33	19.38	5.67	14.13	33.77	61.67	44.17	35.00	0.69
Ma100	5.67	4.33	8.97	40.08	23.45	10.23	21.37	61.23	116.00	63.00	53.67	0.77
Ma104	10.00	7.00	18.10	37.96	22.98	23.72	30.27	97.63	207.33	115.00	99.67	0.5
Ma105	8.67	8.00	13.97	41.70	24.44	19.87	30.47	99.23	203.33	116.67	106.00	0.32
Ma106	2.50	3.33	8.73	33.87	20.84	8.97	25.20	45.03	110.67	66.33	57.00	0.7
Ma107	1.83	6.00	11.30	34.69	20.86	10.20	27.47	53.57	111.67	64.00	53.00	0.51
Ma108	4.33	6.67	13.10	34.71	21.34	18.87	23.57	90.52	117.33	82.33	66.67	0.67
Ma109	7.33	8.00	14.57	39.02	21.87	13.70	24.80	98.35	165.33	99.67	85.17	0.48
Ma110	5.67	4.67	14.40	34.05	19.87	13.77	18.93	59.87	147.00	85.00	78.17	0.35
Ma111	10.67	9.33	16.73	36.68	22.69	19.77	24.43	87.23	168.00	101.00	88.67	0.4
Ma112	6.33	11.33	12.57	39.69	22.34	12.20	19.50	62.07	198.00	97.33	84.33	0.42
Ma113	4.67	6.33	9.10	33.55	23.35	8.57	23.54	30.54	121.00	53.33	28.67	0.84
Ma114	7.33	11.33	12.80	37.25	23.05	18.10	23.23	77.72	148.33	85.83	57.33	0.33
Ma115	11.00	12.33	14.57	36.47	23.43	13.07	26.70	81.47	142.33	78.67	71.00	0.62
Ma116	9.00	9.33	15.30	40.82	22.65	15.33	29.13	92.93	220.33	115.33	103.00	0.43
Ma117	8.00	8.33	9.47	35.53	22.11	8.00	25.90	43.30	82.67	34.33	29.67	0.73
Ma118	10.67	11.67	15.67	36.71	22.47	21.80	25.53	87.23	126.00	75.00	58.00	0.58
Ma119	8.67	9.67	17.37	36.51	25.53	16.63	24.83	78.43	179.67	122.67	109.00	0.61
Ma120	1.67	4.67	10.37	33.59	23.46	15.40	20.83	48.37	100.67	56.00	45.00	0.91
Ma121	9.67	10.00	13.83	44.49	24.31	18.70	27.80	76.00	154.00	108.00	96.00	0.64
Ma122	3.00	4.67	15.67	41.90	23.49	20.70	24.26	105.40	189.67	126.00	112.33	0.69
Ma123	7.33	6.67	14.87	43.41	25.90	22.67	27.60	116.10	178.33	104.00	96.67	0.53
LSD 5%	2.96	3.50	3.06	5.95	4.21	5.54	6.01	31.61	42.95	39.13	38.63	0.22

RWC: Relative water content; LCT: Leaf canopy temperature; SPAD: SPAD (Soil Plant Analysis Development) leaf greenness index; FLL: Flag leaf length; FLW: Flag leaf width; EUL: Ear-up leaves; TL: Total leaves; LA: Leaf angle; EH: Ear height; TH: Tassel height; PH: Plant height; SD: Stem diameter; PL: Peduncle length; BN: Branches number; EL: Ear length; ED: Ear diameter; CD: Cob diameter; EW: Ear wood weight; HGW: 100-grain weight; GY: Grain yield; BY: Biological yield; WETH: Weight of ear together with husk; WEWH: Weight of ear without husk; P%: Phosphorus percentage. LSD: Least significant difference.