

Supplementary Table

Table S1: Agronomic parameters of the 20 wheat lines. Letters in the superscripts indicate significant variation among lines.

Genotypes	Days to heading	days to maturity	plant height (cm)	spikelets per spike	single spike wt (g)	grain wt per spike	100 grain wt
Markaz-19	125.3 ± 4.0 ^{cd}	182.3 ± 5.1 ^d	120.0 ± 14.8 ^{ab}	30.9 ± 3.4 ^{de}	57.7 ± 8.1 ^a	4.5 ± 0.1 ^d	7.8 ± 1.3 ^{cd}
Borloaug-16	128.3 ± 2.5 ^d	182.0 ± 4.6 ^{cd}	119.7 ± 6.8 ^{ab}	31.9 ± 1.5 ^e	53.3 ± 11.1 ^a	4.0 ± 0.5 ^{bcd}	7.9 ± 0.6 ^{cd}
Zincol-16	124.3 ± 3.1 ^{bcd}	180.7 ± 1.2 ^{cd}	122.3 ± 2.5 ^b	29.2 ± 2.0 ^{cde}	51.2 ± 11.5 ^a	4.3 ± 0.5 ^{cd}	8.4 ± 0.8 ^d
Pakistan-13	123.7 ± 5.1 ^{bcd}	181.0 ± 1.0 ^{cd}	120.0 ± 1.7 ^{ab}	28.2 ± 1.3 ^{cde}	50.3 ± 11.9 ^a	4.0 ± 1.0 ^{cd}	7.6 ± 0.7 ^{abcd}
NARC-11	124.3 ± 2.5 ^{bcd}	180.7 ± 1.2 ^{cd}	116.3 ± 4.0 ^{ab}	28.2 ± 1.3 ^{cde}	43.6 ± 18.3 ^a	3.7 ± 0.8 ^{abcd}	6.9 ± 0.8 ^{abcd}
NARC-09	126.0 ± 2.0 ^{cd}	180.3 ± 1.5 ^{cd}	114.7 ± 6.8 ^{ab}	28.1 ± 1.2 ^{cde}	44.7 ± 16.3 ^a	3.4 ± 0.5 ^{abcd}	8.1 ± 0.8 ^{cd}
Wafaq-01	126.0 ± 1.7 ^{cd}	180.0 ± 1.0 ^{cd}	116.7 ± 2.1 ^{ab}	27.0 ± 1.0 ^{cd}	42.4 ± 17.1 ^a	3.4 ± 0.5 ^{abcd}	7.1 ± 0.1 ^{abcd}
Magalla-99	125.0 ± 1.0 ^{bcd}	180.3 ± 2.5 ^{cd}	114.3 ± 1.5 ^{ab}	26.9 ± 0.8 ^c	41.9 ± 17.0 ^a	3.7 ± 0.0 ^{abcd}	7.7 ± 0.6 ^{bcd}
Attahabib	122.3 ± 4.7 ^{bcd}	179.3 ± 1.2 ^{cd}	110.7 ± 6.8 ^{ab}	26.1 ± 1.2 ^c	47.7 ± 21.1 ^a	3.4 ± 0.5 ^{abcd}	7.2 ± 0.4 ^{abcd}
Khatakwai	123.7 ± 1.2 ^{bcd}	178.3 ± 2.1 ^{bcd}	114.3 ± 1.5 ^{ab}	26.1 ± 1.2 ^c	50.0 ± 12.3 ^a	3.3 ± 0.5 ^{abcd}	7.1 ± 0.3 ^{abcd}
Janbaza	121.3 ± 2.1 ^{abcd}	176.7 ± 1.5 ^{bcd}	111.7 ± 2.1 ^{ab}	25.6 ± 0.7 ^{bc}	45.1 ± 12.5 ^a	3.7 ± 0.1 ^{abcd}	7.0 ± 0.2 ^{abcd}
Lalma-13	120.7 ± 2.5 ^{abcd}	176.7 ± 1.2 ^{bcd}	111.3 ± 2.5 ^{ab}	24.8 ± 0.7 ^{ab}	41.2 ± 16.9 ^a	3.2 ± 0.2 ^{abcd}	7.3 ± 0.8 ^{abcd}
Tatara-96	121.7 ± 1.2 ^{abcd}	176.7 ± 2.9 ^{bcd}	111.3 ± 2.5 ^{ab}	24.0 ± 1.0 ^{ab}	39.1 ± 13.3 ^a	3.3 ± 0.3 ^{abcd}	6.8 ± 0.5 ^{abcd}
Panjab-11	121.7 ± 2.9 ^{abcd}	176.0 ± 2.6 ^{abcd}	109.7 ± 5.1 ^{ab}	23.8 ± 1.1 ^{ab}	37.4 ± 12.4 ^a	3.3 ± 0.1 ^{abcd}	6.8 ± 0.7 ^{abcd}
Pirsabaq-05	118.7 ± 2.1 ^{abc}	175.3 ± 3.2 ^{abcd}	108.3 ± 4.0 ^{ab}	23.3 ± 0.6 ^{ab}	40.8 ± 8.1 ^a	3.2 ± 0.4 ^{abcd}	6.1 ± 0.2 ^{ab}
Pirsabaq-13	117.3 ± 0.6 ^{ab}	174.3 ± 2.5 ^{abc}	112.0 ± 3.0 ^{ab}	23.2 ± 0.7 ^{ab}	41.9 ± 3.2 ^a	3.0 ± 0.7 ^{abc}	5.7 ± 0.5 ^a
Galaxy-13	118.0 ± 1.0 ^{ab}	173.3 ± 2.5 ^{ab}	109.0 ± 1.7 ^{ab}	22.4 ± 0.5 ^{ab}	38.7 ± 3.9 ^a	2.6 ± 0.2 ^a	5.8 ± 0.3 ^{ab}
Sehar-06	115.7 ± 0.6 ^a	172.0 ± 2.6 ^{ab}	108.3 ± 2.5 ^{ab}	22.4 ± 0.5 ^{ab}	33.3 ± 8.4 ^a	2.7 ± 0.2 ^{ab}	6.3 ± 0.7 ^{abc}
Shahkar-13	114.7 ± 0.6 ^a	171.0 ± 3.0 ^{ab}	105.7 ± 6.8 ^a	21.8 ± 1.1 ^{ab}	37.2 ± 13.7 ^a	2.7 ± 0.2 ^{ab}	6.1 ± 0.7 ^{ab}
Farid-06	114.7 ± 3.1 ^a	168.3 ± 2.9 ^a	111.7 ± 5.7 ^{ab}	21.1 ± 0.2 ^a	27.9 ± 11.1 ^a	2.6 ± 0.3 ^{ab}	5.8 ± 0.7 ^{ab}