



Supplementary file of an article entitled “Phenotypic variability, heritability, associations of agronomic and quality traits in cultivated Ethiopian durum wheat (*Triticum turgidum* L. ssp. *Durum*, Desf.)”

Supplementary Tables

Table S1. Description of Ethiopian durum wheat genotypes used in the phenotypic diversity study.

Genotype code	Geographical origin	Number of genotypes	Accession name
1-44	Arsi	44	5056, 5163, 5071, 5057, 5482, 7077, 5272, 5057, 7019, 5923, 6955, 6983, 6987, 6988, 7000, 7002, 7003, 7004, 7007, 7009, 7010, 7014, 7015, 7018, 7020, 7031, 7046, 7050, 7056, 7060, 7063, 7064, 7069, 7075, 7076, 7078, 7084, 7150, 7242, 7313, 7317, 222393, 222427, 274497
45-86	Bale-Hararge	42	5328, 5330, 5087, 5107, 5109, 5228, 5070, 5388, 5278, 5104, 5383, 5006, 5146, 5041, 5119, 5117, 5327, 5098, 5017, 5005, 5011, 5095, 5066, 5018, 5065, 5619, 5069, 5387, 5100, 5103, 6933, 6936, 7082, 7083, 7343, 7710, 8072, 230678, 238891, 239693, 239694, 239711
87-180	East Shewa	94	5164, 5001, 5020, 5267, 5246, 5245, 5242, 5344, 5052, 5049, 5623, 5504, 5281, 5026, 5181, 5375, 5574, 5364, 5365, 5522, 5182, 5174, 5572, 5420, 5422, 5583, 5305, 5306, 5183, 5184, 5048, 5465, 5062, 5591, 5241, 5039, 5433, 5571, 5401, 5177, 5372, 5434, 5249, 5030, 5563, 5457, 5506, 5035, 5565, 5567, 5432, 5020, 5044, 5179, 5181, 5182, 5183, 5344, 5373, 5434, 5441, 5465, 5491, 5492, 5502, 5504, 5507, 5515, 5572, 5582, 5591, 5666, 5729, 5568, 5548, 7201, 7205, 5269, 7880, 214370, 226225, 242779, 242781, 242782, 242783, 242784, 242785, 242786, 242787, 242789, 242790, 242791, 242792, 242793
181-204	West Shewa	24	5014, 5023, 5078, 5554, 5288, 5009, 5410, 5326, 5165, 5230, 5289, 5025, 5234, 5043, 5149, 5354, 5537, 6102, 7207, 7209, 7210, 7218, 7999, 226897
205-268	North Shewa	64	5309, 5473, 5257, 5256, 5259, 5255, 5254, 5260, 5261, 5051, 5627, 5576, 5452, 5451, 5155, 5612, 5158, 5142, 5610, 5371, 5159, 5140, 5076, 5047, 5251, 5140, 5141, 5142, 5143, 5158, 5369, 5510, 5576, 5581, 5586, 5593, 5600, 5609, 5618, 5627, 5707, 7104, 7133, 7135, 7626, 7629, 7631, 26241, 5168, 5236, 5169, 5172, 5597, 5015, 5168, 5169, 5171, 5472, 5597, 5892, 5893, 5909, 7712, 7713
269-303	Gojam	35	5204, 5338, 5291, 5340, 5207, 5617, 5239, 5202, 5579, 5397, 5414, 5102, 5197, 5198, 6914, 6968, 6971, 6974, 6975, 7641, 7647, 7649, 7664, 7666, 7673, 7683, 7798, 7801, 7822, 7823, 7826, 7827, 7828, 7832, 7832
304-343	Gondar-Well o	40	5332, 5343, 5342, 5216, 5561, 5215, 5294, 5220, 5459, 5393, 5299, 5219, 5073, 5213, 5562, 5125, 5214, 5342, 5470, 5642, 5485, 7295, 7375, 7378, 7464, 7477, 7532, 7568, 7569, 7572, 7576, 7578, 7580, 7581, 235051, 243698, 243700, 243701, 243703, 243706
344-362	SNNP	19	5336, 5601, 5192, 5558, 5188, 5552, 5519, 5523, 5602, 5544, 5191, 5461, 5518, 5426, 5189, 5190, 5543, 5152, 5898
363-386	Tigray	24	5468, 5471, 5348, 5516, 5577, 5573, 5467, 5162, 5476, 5286, 5526, 5453, 5136, 5394, 5551, 5594, 2211, 4649, 3540, 5526, 5653, 5669, 3540, 243717
387-420	Cultivars	34	Yerer, Kilinto, Quamy, Mangudo, Mukiye, Ginchi, Dembi, Bichena, Robe, Don-matteo, Alem-tena, Ld-357, Tesfaye, Werer, Hitosa, Utuba, Gerado, Assasa, Arandato, Tob-66, Boohai, Cocorit-71, Foka, Ude, Bakalcha, Ejersa, Tate, Oda, Toltu, Ebsa, Dire, Ilani, Leliso, Bulala

Table S2. Genotypes ranked in the top 5% based on their values in gluten content, grain protein content, thousand-kernel weight and grain yield over combined locations.

Genotype	DH (day)	DM (day)	SPS	SPL (cm)	PLH (cm)	TGW (g)	GY (gm/pt)	GC (%)	GPC (%)
364	67.8	135.3	20.2	9.0	106.3	40.4	315.2	35.4	15.5
150	68.3	136.5	19.1	8.9	109.8	39.4	346.4	34.8	15.0
191	69.5	137.3	19.0	8.4	108.5	38.0	336.8	33.8	15.6
286	68.5	140.3	18.3	9.3	111.8	35.9	363.6	31.8	14.5
314	67.3	140.5	18.6	8.1	106.5	44.0	326.8	30.9	14.2
288	66.5	137.8	20.0	9.3	108.0	37.9	384.8	30.7	14.7
102	71.3	136.0	20.9	9.2	107.0	38.9	342.4	30.6	14.3
124	73.3	135.5	19.6	8.4	112.8	34.1	338.4	30.3	14.1
44	73.8	137.8	19.7	9.1	113.8	45.7	358.0	30.2	13.8
313	67.0	136.0	19.1	8.2	98.3	43.4	327.2	30.2	13.9
386	73.0	137.3	18.8	8.2	113.0	46.4	320.0	30.2	15.8
49	67.5	138.0	17.3	8.5	107.8	41.4	308.4	29.5	13.6
244	74.8	137.8	20.6	7.7	107.0	38.1	262.4	28.7	14.0
245	68.5	135.3	19.6	10.1	114.3	49.2	402.8	29.4	14.4
292	71.3	138.3	19.1	9.9	104.8	40.7	453.2	29.4	14.6
260	74.3	139.0	20.3	9.7	107.0	51.6	332.4	29.2	13.8
284	66.5	139.3	19.6	11.1	106.0	41.6	308.4	29.1	14.9
2	71.0	137.8	20.6	7.7	116.0	51.5	352.8	29.0	13.4
169	72.8	137.5	20.1	9.8	114.3	40.7	422.8	29.0	14.2
193	70.8	136.8	18.1	9.8	104.5	39.8	436.8	28.9	14.2
80	71.0	138.8	19.9	10.8	104.3	47.3	377.2	28.8	14.0
Mean	70.2	137.5	19.4	9.1	108.6	42.2	353.2	30.5	14.4

DH is days to heading; DM is days to maturity; SPS is the number of spikelet per spike; SPL is spike length; PLH is plant height; TGW is thousand grains weight; GY is grain yield; GC is gluten content and GPC is grain protein content.