

Additional File 1: Morphometric characteristics and lodging susceptibility of the wheat genotypes

Origin	Yield group	Genotype	Stem Diameter (mm)	Stem wall thickness (mm)	Plant height (cm)	Dry spike weight (g)	Lodging susceptibility index
CIMMYT	High yield	Buck AGP Fast ^a	2.87 ^a	0.430 ^a	95.7 ± 0.7	2.509 ± 0.360	37.3 ± 8.8
		Don Mario Arex	3.59 ± 0.12	0.561 ± 0.030	103.2 ± 5.3	2.045 ± 0.103	19.6 ± 6.9
		Don Mario Atlax ^a	3.75 ^a	0.675 ^a	101.2 ± 1.7	2.124 ± 0.043	13.5 ± 0.6
		INIA Centinela	3.49 ± 0.10	0.559 ± 0.006	90.0 ± 0.5	2.846 ± 0.111	28.4 ± 2.1
		Klein Don Enrique	2.74 ± 0.04	0.400 ± 0.007	94.0 ± 3.0	2.111 ± 0.203	28.5 ± 7.2
		Sursem LE 2331	2.81 ± 0.01	0.432 ± 0.015	92.7 ± 3.2	1.627 ± 0.212	15.5 ± 1.9
	Low yield	ACA 907	3.68 ± 0.13	0.556 ± 0.017	95.7 ± 1.7	2.633 ± 0.370	24.3 ± 9.8
		BIOINTA 1003	3.60 ± 0.17	0.595 ± 0.056	103.7 ± 1.2	1.825 ± 0.370	9.4 ± 9.4
		BIOINTA 3004	3.70 ± 0.08	0.722 ± 0.045	100.5 ± 0.0	2.192 ± 0.395	35.9 ± 8.9
		Buck Puelche	3.35 ± 0.05	0.619 ± 0.042	95.2 ± 0.2	2.081 ± 0.098	17.5 ± 2.4
		Klein Cacique	3.47 ± 0.07	0.512 ± 0.013	112.2 ± 2.2	2.200 ± 0.125	34.5 ± 4.8
		Klein Yarara	3.45 ± 0.10	0.554 ± 0.025	115.2 ± 1.7	1.457 ± 0.084	19.92 ± 0.4
	Criollos	High yield	BIOINTA 1000	3.11 ± 0.06	0.501 ± 0.013	102.2 ± 0.7	2.257 ± 0.322
Buck 75 Aniversario			3.13 ± 0.10	0.484 ± 0.015	92.0 ± 1.5	2.033 ± 0.240	19.3 ± 4.1
Buck Baqueano			3.48 ± 0.04	0.502 ± 0.020	94.2 ± 0.2	2.656 ± 0.251	29.1 ± 5.5
Buck Guapo			3.53 ± 0.12	0.606 ± 0.021	106.0 ± 1.5	2.353 ± 0.480	29.5 ± 9.5
Buck Ranquel			3.26 ± 0.09	0.524 ± 0.020	92.5 ± 0.5	1.929 ± 0.018	14.8 ± 0.9
Don Mario Themix			3.08 ± 0.01	0.405 ± 0.019	98.7 ± 5.8	2.319 ± 0.175	33.6 ± 9.0
Low yield		Barletta 77	3.38 ± 0.04	0.538 ± 0.053	112.7 ± 0.2	1.818 ± 0.041	27.6 ± 1.2
		Buck Naposta	3.31 ± 0.15	0.521 ± 0.003	111.2 ± 2.7	1.671 ± 0.208	24.5 ± 7.1
		INIA Condor	3.54 ± 0.12	0.661 ± 0.024	111.2 ± 0.2	2.129 ± 0.020	27.7 ± 0.7
		Klein Impacto	3.02 ± 0.06	0.499 ± 0.016	120.7 ± 2.7	1.854 ± 0.086	41.7 ± 0.5
		Klein Rendidor	3.28 ± 0.02	0.435 ± 0.012	107.0 ± 3.0	2.055 ± 0.131	31.5 ± 5.6
		Oleata Artillero	3.63 ± 0.13	0.632 ± 0.055	132.5 ± 3.1	1.919 ± 0.163	39.9 ± 6.3
French	High yield	BSY 100	2.97 ± 0.11	0.378 ± 0.013	100.2 ± 0.2	1.926 ± 0.162	27.7 ± 3.4
		Baguette 9	3.50 ± 0.03	0.498 ± 0.019	96.7 ± 1.2	2.141 ± 0.015	19.4 ± 0.8
		Baguette 18	3.64 ± 0.06	0.524 ± 0.003	100.7 ± 5.3	2.257 ± 0.163	22.0 ± 0.9
		Baguette 19	3.48 ± 0.06	0.506 ± 0.003	88.5 ± 2.5	2.192 ± 0.185	13.6 ± 2.0
		Baguette 31	3.48 ± 0.14	0.475 ± 0.062	83.2 ± 2.2	2.095 ± 0.037	7.6 ± 1.1

	SNR Nogal	3.63 ± 0.09	0.498 ± 0.021	78.7 ± 3.2	2.447 ± 0.019	8.1 ± 2.4
Low Yield	BSY 200	3.55 ± 0.06	0.550 ± 0.005	93.2 ± 5.3	2.259 ± 0.209	16.9 ± 0.1
	Klein Atlas	3.01 ± 0.26	0.449 ± 0.019	102.7 ± 0.7	1.564 ± 0.203	20.3 ± 5.2
	Klein Centauro	3.28 ± 0.08	0.534 ± 0.015	99.0 ± 0.5	2.132 ± 0.107	24.6 ± 2.9
	Baguette 10	3.77 ± 0.04	0.560 ± 0.037	88.0 ± 1.0	2.271 ± 0.230	7.3 ± 6.0
	Baguette 21	3.66 ± 0.04	0.462 ± 0.016	80.7 ± 1.2	2.315 ± 0.197	7.1 ± 3.3
	Sinvalocho	2.93 ± 0.02	0.493 ± 0.006	107.5 ± 1.0	1.526 ± 0.041	24.0 ± 1.8

Stem diameter, stem wall thickness, plant height, dry spike weight, and lodging susceptibility index for the 36 wheat genotypes assessed during the 2014 season. Data represents the mean and standard error of 3 replicates. ^a Single determination.