



2020 STANDARD DEVIATION

Sample standard deviations and ranges are provided to indicate how widely dispersed the survey values were and thus to indicate how much confidence can be placed in the average values reported. The “true” average value of a population is typically expected to fall within two standard deviations of the reported average of the sample values. Thus, larger standard deviations indicate greater possibility for larger differences between the “true” average and the average reported.

HARD RED WINTER

	COMPOSITE			GULF			PNW			CALIFORNIA		
	Standard Deviation	Range Min Max		Standard Deviation	Range Min Max		Standard Deviation	Range Min Max		Standard Deviation	Range Min Max	
Test Weight (lb/bu)	2.0	55.4	67.5	2.1	55.4	67.5	1.5	56.6	66.5	1.6	54.5	66.9
(kg/hl)	2.6	73.0	88.6	2.7	73.0	88.6	2.0	74.5	87.3	2.1	71.8	87.9
Damaged Kernels (%)	0.2	0.0	2.0	0.2	0.0	2.0	0.2	0.0	0.9	0.3	0.0	7.5
Moisture (%)	1.5	0.1	14.8	1.4	0.1	14.8	1.6	7.8	14.5	1.2	5.4	12.79
Wheat Protein (%) 12%/0% mb	1.2/1.3	8.4/10.0	16.1/18.4	1.2/1.3	8.4/10.0	16.1/18.4	1.1/1.2	9.0/10.2	15.2/17.3	1.2/1.4	8.5/9.7	14.9/16.9
1000 Kernel Weight (g)	4.9	15.6	49.1	3.5	15.6	39.0	5.4	25.1	49.1	4.5	27.9	54.3
Wheat Falling Number (sec)	21	249	423	20	265	423	22	249	409	39	227	439
SAMPLE COUNT:	431			274			157			198		

HARD RED SPRING

	COMPOSITE			WESTERN REGIONAL			EASTERN REGIONAL		
	Standard Deviation	Range Min Max		Standard Deviation	Range Min Max		Standard Deviation	Range Min Max	
Test Weight (lb/bu)	1.6	56.8	65.6	1.6	57.0	65.6	1.5	56.8	64.7
(kg/hl)	2.1	74.8	86.1	2.1	75.0	86.1	1.9	74.8	85.0
Damaged Kernels (%)	0.6	0.0	8.4	0.4	0.0	2.5	0.8	0.0	8.4
Vitreous Kernels (%)	24	3	99	17	20	99	23	3	96
Moisture (%)	1.5	7.1	13.9	1.5	7.10	13.9	0.9	10.3	13.9
Wheat Protein (%) 12%/0% mb	1.36	9.2	19.3	1.5	9.23	19.3	1.2	10.8	17.4
1000 Kernel Weight (g)	3.2	18.4	42.0	3.3	18.4	39.2	3.1	22.9	42.0
Wheat Falling Number (sec)	42	123	492	43	250	492	40	123	491
SAMPLE COUNT:	475			227			248		

Hard red spring and durum samples are dried to a maximum moisture level of 14% prior to testing.





2020 STANDARD DEVIATION

SOFT WHITE

	SOFT WHITE			CLUB		
	Standard Deviation	Range Min Max		Standard Deviation	Range Min Max	
Test Weight (lb/bu)	1.7	50.6 64.6		1.6	52.0 64.5	
(kg/hl)	2.1	66.8 84.9		2.1	68.6 84.8	
Damaged Kernels (%)	0.1	0.0 1.7		0.1	0.0 0.9	
Moisture (%)	0.9	7.4 12.9		0.6	7.4 10.5	
Wheat Protein (%) 12%/0% mb	1.2/1.4	7.0/8.0 14.1/16.0		1.4/1.6	6.6/7.5 12.8/14.5	
1000 Kernel Weight (g)	3.7	19.8 50.6		5.1	15.9 45.1	
Wheat Falling Number (sec)	31	230 417		38	240 452	
SAMPLE COUNT:		389			95	

HARD WHITE

	Standard Deviation	Range	
		Min	Max
Test Weight (lb/bu)	1.9	57.7	65.1
(kg/hl)	1.8	78.2	85.3
Damaged Kernels (%)	0.1	0.0	0.3
Moisture (%)	1.4	7.3	12.9
Wheat Protein (%) 12%/0% mb	0.9/1.0	10.3/11.7	14.2/16.1
1000 Kernel Weight (g)	4.9	24.3	44.3
Wheat Falling Number (sec)	68	323	557
SAMPLE COUNT:		44	



U.S. WHEAT
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— YEARS —





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SOFT RED WINTER

	COMPOSITE			EAST COAST			GULF		
	Standard Deviation	Range Min Max		Standard Deviation	Range Min Max		Standard Deviation	Range Min Max	
Test Weight (lb/bu)	1.5	53.2	63.4	1.4	54.5	61.2	1.8	53.2	62.3
(kg/hl)	2.0	70.2	83.3	1.8	71.8	80.5	2.3	70.2	81.9
Moisture (%)	1.0	10.6	16.6	0.8	10.6	15.7	1.1	10.6	16.6
Wheat Protein (%) 12%/0% mb	0.67	8.07	12.0	0.72	7.4	13.4	0.5	8.1	10.4
1000 Kernel Weight (g)	4.2	25.2	43.7	3.4	18.2	41.6	3.7	27.9	43.7
Wheat Falling Number (sec)	39	83	369	40	137	360	60	83	350
SAMPLE COUNT:		191			45			146	

DURUM

	NORTHERN DURUM			DESERT DURUM®		
	Standard Deviation	Range Min Max		Standard Deviation	Range Min Max	
Test Weight (lb/bu)	1.3	57.3	64.8	1.1	61.6	64.4
(kg/hl)	1.7	74.6	84.3	1.4	80.2	83.8
Damaged Kernels (%)	1.0	0.0	5.2	0.4	0.0	1.0
Vitreous Kernels (%)	10	51	99	1	96	99
Moisture (%)	1.4	7.9	13.2	0.6	6.7	8.4
Wheat Protein (%) 12%/0% mb	1.2/1.4	9.9/11.3	17.9/20.3	0.6/0.7	13.9/15.9	15.2/17.2
1000 Kernel Weight (g)	4.2	35.0	56.2	4.7	41.2	54.6
Wheat Falling Number (sec)	45	243	549	171	461	945
SAMPLE COUNT:		102			7	

Hard red spring and durum samples are dried to a maximum moisture level of 14% prior to testing.



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