



2021 STANDARD DEVIATIONS

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		
	Standard Deviation	Range Min Max		Standard Deviation	Range Min Max		Standard Deviation	Range Min Max	
Test Weight (lb/bu)	2.1	49.6	65.2	2.0	52.5	65.2	2.2	49.6	63.6
(kg/hl)	2.7	65.5	85.7	2.5	69.2	85.7	2.9	65.5	83.6
Damaged Kernels (%)	0.5	0.0	4.5	0.6	0.0	4.5	0.3	0.0	1.6
Moisture (%)	1.7	0.7	15.3	1.3	1.2	15.3	2.1	0.7	14.3
Wheat Protein (%) 12%/0% mb	1.3/2.0	8.0/9.0	17.0/19.0	1.0/1.2	8.8/10.0	16.5/18.8	1.4/2.0	8.0/9.0	17.0/19.0
1000 Kernel Weight (g)	3.5	17.7	40.6	2.9	23.1	39.7	3.8	17.7	40.6
Wheat Falling Number (sec)	35	231	652	21	282	475	49	231	652
SAMPLE COUNT:		522			328			194	

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)	2.1	52.7	65.0	2.2	52.7	65.0	1.4	55.9	64.9
(kg/hl)	2.7	69.5	85.4	2.8	69.5	85.4	1.8	73.7	85.2
Damaged Kernels (%)	0.3	0.0	3.7	0.2	0.0	2.4	0.3	0.0	3.7
Vitreous Kernels (%)	17	7	100	13	12	100	19	7	99
Moisture (%)	1.6	7.1	13.9	1.6	7.10	13.9	1.0	9.7	13.9
Wheat Protein (%) 12%/0% mb	1.40	10.6	20.2	1.5	10.60	20.2	1.2	12.2	18.5
1000 Kernel Weight (g)	4.7	15.0	42.0	4.4	15.0	42.0	3.8	21.9	41.2
Wheat Falling Number (sec)	47	134	622	53	134	622	40	208	522
SAMPLE COUNT:		481			245			236	

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





2021 STANDARD DEVIATIONS

SOFT WHITE

	SOFT WHITE			CLUB		
	Standard Deviation	Range Min Max		Standard Deviation	Range Min Max	
Test Weight (lb/bu)	2.0	50.0	64.4	1.7	54.0	62.7
(kg/hl)	2.6	66.8	84.6	2.2	71.2	82.4
Damaged Kernels (%)	0.2	0.0	1.7	0.1	0.0	0.8
Moisture (%)	1.2	2.0	12.9	0.6	7.2	10.1
Wheat Protein (%) 12%/0% mb	1.38/1.57	5.50/6.25	15.60/17.73	1.51/1.72	7.8/8.82	15.8/18.0
1000 Kernel Weight (g)	5.6	19.8	11.9	3.7	18.0	33.3
Wheat Falling Number (sec)	34	219	581	34	282	431
SAMPLE COUNT:	375			67		

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)	1.6	49.5	61.2	1.4	55.0	63.4	1.4	55.5	61.9
(kg/hl)	2.0	65.4	80.5	1.9	72.5	83.3	1.9	73.1	81.4
Moisture (%)	0.9	10.4	16.9	1.0	10.9	16.0	1.4	11.4	18.7
Wheat Protein (%) 12%/0% mb	0.78	7.41	13.6	0.70	8.1	12.0	0.9	7.9	12.5
1000 Kernel Weight (g)	3.8	18.2	48.4	3.8	25.2	42.9	2.8	29.7	43.5
Wheat Falling Number (sec)	45	137	360	20	211	369	65	80	357
SAMPLE COUNT:	263			60			203		

NORTHERN DURUM

	Standard Deviation	Range Min Max	
	Test Weight (lb/bu)	1.6	55.8
(kg/hl)	2.1	72.7	83.7
Damaged Kernels (%)	1.6	0.0	16.7
Vitreous Kernels (%)	16	22	99
Moisture (%)	1.4	7.1	13.7
Wheat Protein (%) 12%/0% mb	1.4/1.6	12.5/14.2	19.6/22.3
1000 Kernel Weight (g)	5.8	28.7	56.5
Wheat Falling Number (sec)	74	78	678
SAMPLE COUNT:	121		

DESERT DURUM®

	Standard Deviation	Range Min Max	
	Test Weight (lb/bu)	1.3	61.2
(kg/hl)	1.6	79.7	84.6
Damaged Kernels (%)	0.0	0.0	0.0
Vitreous Kernels (%)	1	97	99
Moisture (%)	0.7	6.1	8.2
Wheat Protein (%) 12%/0% mb	0.75/0.84	12.86/14.61	14.98/17.02
1000 Kernel Weight (g)	3.9	40.0	50.8
Wheat Falling Number (sec)	41	459	570
SAMPLE COUNT:	7		

Northern durum samples are dried to a maximum moisture level of 14% prior to testing.

