

# 2018 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	Range		Standard	Range		Standard	Range		Standard	Range	
	Deviation	Min	Max	Deviation	Min	Max	Deviation	Min	Max	Deviation	Min	Max
Test Weight (lb/bu)	1.9	56.2	65.4	1.6	56.2	64.0	1.5	56.8	65.4	1.9	54.0	65.8
(kg/hl)	2.4	74.0	85.9	2.0	74.0	84.1	2.0	74.8	85.9	2.4	71.1	86.4
Damaged Kernels (%)	0.2	0.0	1.5	0.2	0.0	1.5	0.2	0.0	1.3	1.4	0.1	22.5
Moisture (%)	1.8	1.5	15	1.3	1.5	15	1.9	7.1	14.1	1.1	5.2	11.2
Protein (%) 12%/0% moisture basis	1.47	8.5/9.7	15.5/17.6	1.22	9.6/10.9	15.5/17.6	1.59	8.5/9.7	15/17.0	0.98/1.11	9.7/11.0	16.3/18.5
1000 Kernel Weight (g)	4.3	20.2	46.7	2.1	23.5	37.0	5.1	20.2	46.7	4.6	26.2	50.8
Falling Number (sec)	31	269	542	24	269	519	40	279	542	71	256	606
<b>Sample Count:</b>	479			182			297			198		

SOFT RED WINTER	COMPOSITE			EAST COAST			GULF PORTS		
	Standard	Range		Standard	Range		Standard	Range	
	Deviation	Min	Max	Deviation	Min	Max	Deviation	Min	Max
Test Weight (lb/bu)	2.0	50.1	61.4	1.6	53.8	63.4	2.0	53.2	61.0
(kg/hl)	2.6	66.1	80.7	2.1	70.9	83.3	2.6	70.2	80.2
Moisture (%)	1.0	10.3	15.6	1.1	10.7	15.6	0.7	10.7	14.2
Protein (%) 12%/0% moisture basis	0.80	8.10	12.8	0.61	7.8	11.3	0.6	8.7	11.8
1000 Kernel Weight (g)	3.4	19.3	39.4	3.1	25.5	40.9	3.2	23.9	39.4
Falling Number (sec)	33	179	394	22	237	394	32	219	356
<b>Sample Count:</b>	265			61			204		

## HARD RED SPRING

### COMPOSITE

### WESTERN REGIONAL

### EASTERN REGIONAL

	Standard Deviation	Range Min Max		Standard Deviation	Range Min Max		Standard Deviation	Range Min Max	
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Test Weight (lb/bu)	1.7	55.4	65.6	1.9	55.4	65.1	1.6	56.6	65.6
(kg/hl)	2.2	73	86.2	2.3	73.0	85.6	2.1	73.8	86.2
Damaged Kernels (%)	0.2	0.0	2.2	0.1	0.0	0.5	0.3	0.0	2.2
Vitreous Kernels (%)	12	11	99	9	15	99	14	11	99
Moisture (%)	1.4	7.4	13.9	1.7	7.40	13.9	0.9	9.5	13.9
Protein (%) 12%/0% moisture basis	1.4/1.6	9.8/11.2	19.9/22.6	1.5/1.7	9.8/11.1	18.1/20.6	1.3/1.4	11.2/12.7	19.9/22.6
1000 Kernel Weight (g)	4.2	19.4	44.2	4.2	19.4	43.2	3.6	22.5	44.2
Falling Number (sec)	41	234	577	42	279	577	40	234	533
<b>Sample Count:</b>	<b>464</b>			<b>223</b>			<b>241</b>		

## DURUM

### NORTHERN DURUM

### DESERT DURUM®

	Standard Deviation	Range Min Max		Standard Deviation	Range Min Max	
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Test Weight (lb/bu)	1.5	56.3	65.1	1.0	60.5	64.7
(kg/hl)	1.9	73.4	84.7	1.3	78.8	84.2
Damaged Kernels (%)	0.1	0.0	0.5	0.2	0.0	0.5
Vitreous Kernels (%)	12	23	99	1	96	99
Moisture (%)	1.2	8.4	13.4	0.6	5.3	7.6
Protein (%) 12%/0% moisture basis	1.6/1.9	10.9/12.4	18.7/21.3	0.7/0.8	12.1/13.7	14.3/16.3
1000 Kernel Weight (g)	4.2	30.5	50.8	4.9	37.0	54.6
Falling Number (sec)	54	276	641	140	443	999
<b>Sample Count:</b>	<b>129</b>			<b>22</b>		

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

## SOFT WHITE

### SOFT WHITE

### CLUB

	Standard Deviation	Range Min Max		Standard Deviation	Range Min Max	
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Test Weight (lb/bu)	1.5	51.5	66.0	1.3	57.4	65.1
(kg/hl)	1.9	68.0	86.7	1.7	75.6	85.5
Damaged Kernels (%)	0.1	0.0	1.7	0.1	0.0	0.5
Moisture (%)	0.9	6.8	15.3	0.7	6.7	11.0
Protein (%) 12%/0% moisture basis	1.1/1.2	6.4/7.3	14.4/16.4	1.3/1.5	6.2/7.0	13.6/15.5
1000 Kernel Weight (g)	4.5	24.3	49.9	3.3	24.4	38.7
Falling Number (sec)	33	142	420	36	201	399
<b>Sample Count:</b>	<b>473</b>			<b>128</b>		