



# Wheat Producers Advantage

South Dakota Wheat, Inc.

August 2018

The National Association of Wheat Growers

## Where We Stand With the 2018 Farm Bill

The 2018 Farm Bill negotiations are underway and moving at an unexpectedly quick pace. The National Association of Wheat Growers (NAWG) was pleased to see both the House and Senate pass out their versions of the Farm Bill in late June. This then kicked off the process to conference the two bills. On July 18th, House leadership announced its list of members assigned to the Farm Bill Conference Committee, followed shortly by the Senate. In total, 56 Members have been assigned to the Conference Committee, including members from both the Senate and House Agriculture Committees as well as from Committees with jurisdiction in the bill. Chaired by Senate Agriculture Committee Chairman Pat Roberts (R-KS), the Conference Committee can now begin sorting out differences between the two bills with the goal of passing out a conference report and then a final farm bill signed into law by the September 30th expiration.

NAWG staff have been busy preparing for the Farm Bill conference negotiations. First, NAWG provided its states with a side by side of the two bills and held policy committee calls to reaffirm state's priorities for a final bill. Additionally, NAWG sent a letter to the Hill outlining the differences for wheat between the House and Senate versions of the Farm Bill in hopes to provide guidance to committee staff as conference negotiations move forward.

In a brief overview, NAWG supports providing growers a choice between the Agricultural Risk Coverage (ARC) and Price Loss Coverage (PLC) programs. The House and Senate versions both maintain this choice and provide growers with a new opportunity to elect which program they want to participate in the 2019 crop year. However, the Senate bill also includes a provision

for a farmer to once again re-elect their program choice in the year 2021 and provides them with a choice to participate in ARC-Individual. Regarding ARC, both bills prioritize the use of RMA data and making payments based on the physical location of the farm. Lastly, NAWG supports Senate language requiring payment rate information for ARC and PLC being published within 30 days of the end of a marketing year.

NAWG remains committed to prioritizing working lands programs. Additionally, it supports increasing funding for MAP and FMD and the new umbrella program that allows MAP and FMD to be funded at levels above the baseline threshold. The research title contains critical funding for wheat. NAWG was pleased to see the Senate increase the authorization for the U.S. Wheat and Barley Scab Initiative to \$15 million up from \$10 million and encourages the adoption of that language. This is a high-level overview of some of the differences between the two versions and where NAWG's priorities lie.

If Congress doesn't pass a full reauthorization or an extension, that would leave producers with uncertainty moving forward, and it would also leave the Foreign Market Development (FMD) program without funding. NAWG, in partnership with South Dakota Wheat and other state associations, will continue to work to ensure that the final conference report includes the provisions that will most benefit wheat farmers. Through our grassroots policy process, our farmer board members will be directing us in identifying our priorities throughout conference negotiations to ensure we get the best bill possible for wheat farmers.

# New Technology Enhances Moisture and Protein Testing



Perten Instruments' foundations lie in grain analysis. The genesis of the company was the development of the world standard Falling Number<sup>®</sup> method for detection of sprout damage. Since that time, Perten – now a PerkinElmer company – has continued to innovate and bring new instruments and methods to grain breeders, farmers/producers, traders, and processors. In 2005, Perten Instruments introduced the first commercially available high frequency, UGMA-based grain moisture meter to the market. Seven years later, USDA-GIPSA-FGIS updated its directive that only these types of meters could be used for official moisture measurement for trade purposes. The challenges encountered with older and portable technology (sample temperature, early harvest grain conditions and differences in crop years) were mitigated with the new UGMA/high-frequency platform's performance. Simply put: more producers, traders and processors began receiving the same mois-

ture results on both sides of the grain transaction. Another innovation was the introduction of commercially near-infrared diode-array based food and grain analyzers in 1995. Continued advancements of diode-array technology led to multiple bench-top analyzers for grains, foods, and compound feeds, on-line instruments, and more recently the portable, battery-powered IM 8800 whole grain analyzer. The IM 8800 measures moisture, protein and more in grains and oilseeds with no sample preparation in approximately 50 seconds. The IM 8800 builds upon Perten Instruments' experience as a global leader of NIR protein analyzers with the initial introduction in 1992. Most recently, we've expanded our offering into food safety and launched a new water based extraction aflatoxin test kit for grains available for harvest 2018 – a worthy complement to our DON ELISA kits. Perten Instruments and its parent company PerkinElmer remain committed to advancing grain analysis across all industry touch points – breeders, farmers/producers, traders, and grain processors. Together, we serve some of the largest companies, smaller specialized operations, and the research institutes that support them.

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# Wheat Works – A Producer's Advantage

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Table 1. 2018 winter wheat variety trial results (average of 4 replications) at Brookings, SD.

Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of each trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2016 (bu/a)	2017 (bu/a)	2018 (bu/a)	2-year (bu/a)	3-year (bu/a)
SY Wolf	27	1.0	60.4	13.8	82.9	80.2	75.1	77.7	79.4
SY Monument	28	1.0	58.2	13.2	79.1	81.1	72.2	76.7	77.5
PSB13NEDH-7-140	25	1.0	58.3	12.9	70.1	89.3	66.8	78.0	75.4
WB-Grainfield	30	1.0	60.3	14.7	78.1	86.7	59.6	73.2	74.8
Oahe	29	1.0	60.4	13.7	70.8	80.1	73.2	76.7	74.7
SY Sunrise	27	1.0	59.1	13.6	67.7	80.0	73.8	76.9	73.8
Redfield	28	2.5	58.6	13.0	69.0	76.1	73.0	74.6	72.7
Cowboy	29	1.0	59.3	14.1	68.4	76.1	72.3	74.2	72.3
Thompson	28	2.5	58.1	13.0	70.8	75.9	69.3	72.6	72.0
LCS Mint	27	2.8	59.5	13.9	69.4	79.1	65.4	72.3	71.3
Lyman	26	1.8	59.8	13.8	70.8	74.7	67.3	71.0	70.9
Ideal	27	1.5	61.6	15.4	68.8	61.3	77.9	69.6	69.3
Avery	27	1.0	61.9	13.4	68.8	64.9	67.1	66.0	66.9
Alice	28	1.3	61.2	14.5	57.6	77.5	62.4	69.9	65.8
Wesley	25	1.8	59.8	14.1	65.7	67.4	63.7	65.5	65.6
Overland	26	1.0	59.1	14.0	62.9	66.7	65.0	65.8	64.9
Expedition	29	1.0	58.7	14.6	62.4	51.0	63.3	57.2	58.9
Keldin	27	1.8	58.6	13.1	-	95.4	75.9	85.7	-
Langin	25	1.3	59.2	12.9	-	86.3	75.5	80.9	-
Dyna-Gro Long Branch	28	1.3	58.6	13.6	-	97.2	63.7	80.4	-
SY 517 CL2	26	1.0	62.7	14.2	-	74.9	65.6	70.2	-
WB4462	27	1.0	60.5	13.1	-	-	75.9	-	-
LCS Chrome	29	1.0	59.7	13.7	-	-	73.4	-	-
WB4418	26	1.0	56.4	14.7	-	-	67.3	-	-
LCS Link	28	1.0	60.3	14.4	-	-	65.7	-	-
NHH144913-3	25	1.0	58.7	13.2	-	-	62.8	-	-
SY Benefit	27	1.0	59.8	13.0	-	-	62.6	-	-
WB4623CLP	26	1.0	57.8	14.8	-	-	62.3	-	-
<b>Trial Average#</b>	27	1.3	59.4	13.8	67.8	77.7	68.9	-	-
<b>LSD (0.05)†</b>	2.0	0.5	1.1	0.4	7.3	7.3	5.0	-	-
<b>C.V. %‡</b>	5.1	-	1.3	1.9	7.7	6.7	5.2	-	-

\* Lodging score: 1, perfectly standing; to 5, completely flat.

# Trial averages may include values from experimental lines that are not reported.

† Value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.

Table 1. 2018 winter wheat variety performance trial results (average of 4 replications) at Pierre, SD.

Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of each trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2016 (bu/a)	2017 (bu/a)	2018 (bu/a)	2-year (bu/a)	3-year (bu/a)
Ideal	24	1.7	64.0	14.2	56.4	62.2	65.4	63.8	61.3
SY Sunrise	24	1.7	62.7	14.2	70.8	58.7	51.2	54.9	60.2
Redfield	25	2.0	63.4	14.1	65.2	55.5	58.9	57.2	59.9
SY Monument	25	2.0	61.2	13.9	67.1	54.3	55.7	55.0	59.0
Lyman	28	3.0	63.5	14.6	63.2	48.4	61.1	54.8	57.6
Avery	26	2.3	62.0	14.1	53.6	60.7	57.1	58.9	57.1
Oahe	29	2.7	63.5	14.4	63.9	53.8	53.6	53.7	57.1
Thompson	27	2.0	62.7	14.5	63.3	55.3	51.6	53.4	56.7
Cowboy	27	1.7	63.6	14.0	60.0	55.5	52.3	53.9	55.9
LCS Mint	27	1.3	65.3	14.1	67.6	39.3	58.4	48.8	55.1
SY Wolf	24	1.7	63.4	15.4	69.5	44.8	50.8	47.8	55.0
Overland	26	2.3	63.0	14.9	63.6	52.3	48.5	50.4	54.8
Wesley	26	2.0	62.4	14.1	59.1	48.6	55.3	51.9	54.3
Expedition	28	2.3	62.8	15.4	58.4	54.5	48.1	51.3	53.7
PSB13NEDH-7-140	24	1.7	62.9	16.9	64.2	52.5	39.2	45.9	52.0
Alice	26	1.7	62.3	13.9	63.7	38.7	53.1	45.9	51.8
WB-Grainfield	24	2.7	61.2	15.2	59.1	42.2	37.7	40.0	46.3
Langin	25	2.0	60.9	14.1	-	60.1	47.4	53.7	-
Keldin	26	1.3	63.2	14.5	-	51.2	55.6	53.4	-
Dyna-Gro Long Branch	26	2.0	59.6	14.2	-	64.9	37.6	51.2	-
SY 517 CL2	24	2.3	62.4	15.1	-	35.2	38.2	36.7	-
WB4462	29	2.7	62.6	14.1	-	-	71.1	-	-
SY Benefit	26	2.3	63.3	14.0	-	-	54.5	-	-
LCS Chrome	26	2.0	62.7	15.0	-	-	43.6	-	-
WB4418	23	2.0	61.4	14.7	-	-	42.5	-	-
WB4623Cp	23	1.0	62.9	15.9	-	-	41.2	-	-
LCS Link	25	1.7	62.8	13.8	-	-	39.2	-	-
NHH144913-3	25	2.0	59.8	15.2	-	-	35.3	-	-
<b>Trial Average#</b>	26	2.0	62.7	14.6	61.8	50.4	51.5	-	-
<b>LSD (0.05)†</b>	3.0	0.8	1.3	1.1	9.9	9.7	12.0	-	-
<b>C.V. %‡</b>	7.2	-	1.4	5.5	11.5	13.9	15.3	-	-

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Table 1. 2018 winter wheat variety performance trial results (average of 4 replications) at Wall, SD.

Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2016 (bu/a)	2017 (bu/a)	2018 (bu/a)	2-year (bu/a)	3-year (bu/a)
Ideal	30	NR	58.3	11.4	66.1	65.2	70.9	68.0	67.4
SY Monument	33	-	57.7	11.5	72.2	52.4	73.8	63.1	66.1
Cowboy	30	-	59.1	11.1	75.0	51.0	65.5	58.2	63.8
Overland	33	-	57.5	11.8	65.2	58.7	66.4	62.5	63.4
SY Wolf	32	-	59.5	12.0	62.4	57.4	69.7	63.5	63.2
LCS Mint	34	-	60.2	11.2	66.4	52.5	68.5	60.5	62.4
PSB13NEDH-7-140	33	-	59.8	12.5	62.9	54.2	68.0	61.1	61.7
Wesley	33	-	57.4	11.8	56.9	53.3	74.0	63.6	61.4
Oahe	32	-	58.6	11.5	63.9	47.2	72.1	59.6	61.0
Avery	31	-	58.1	10.9	69.0	49.1	64.8	57.0	61.0
Lyman	32	-	57.4	12.2	60.3	50.3	71.4	60.8	60.7
SY Sunrise	30	-	57.4	11.5	65.1	44.9	70.8	57.9	60.3
Thompson	31	-	59.0	12.2	55.4	58.3	66.2	62.2	59.9
Redfield	30	-	59.2	11.6	63.1	40.5	74.0	57.2	59.2
WB-Grainfield	31	-	57.5	11.1	58.7	40.8	74.0	57.4	57.8
Expedition	35	-	58.9	11.8	55.4	53.6	60.3	56.9	56.4
Alice	33	-	56.4	12.0	55.8	41.2	69.7	55.5	55.6
Langin	31	-	56.7	10.9	-	70.0	67.6	68.8	-
Keldin	32	-	58.8	11.5	-	57.2	73.4	65.3	-
Dyna-Gro Long Branch	35	-	58.2	11.0	-	54.1	70.2	62.1	-
SY 517 CL2	35	-	60.2	11.8	-	45.7	73.0	59.3	-
LCS Link	32	-	58.9	11.1	-	-	73.5	-	-
SY Benefit	32	-	57.9	11.5	-	-	72.0	-	-
NHH144913-3	38	-	55.9	11.8	-	-	71.7	-	-
LCS Chrome	32	-	59.9	12.1	-	-	67.6	-	-
WB4462	36	-	55.4	12.5	-	-	63.5	-	-
WB4418	33	-	56.5	11.5	-	-	61.1	-	-
WB4623CLP	35	-	54.3	12.5	-	-	46.3	-	-
Trial Average#	32	-	58.3	11.6	61.8	52.4	69.5	-	-
LSD(0.05)†	-	-	2.4	0.5	6.7	14.3	12.9	-	-
C.V.%‡	-	-	2.9	2.8	7.8	19.5	12.2	-	-

\* Lodging score: 1, perfectly standing; to 5, completely flat.

# Trial averages may include values from experimental lines that are not reported.

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Table 1. 2018 winter wheat variety trial results (average of 4 replications) at Winner, SD.

Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of each trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2016 (bu/a)	2017 (bu/a)	2018 (bu/a)	2-year (bu/a)	3-year (bu/a)
SY Wolf	27	NR	60.6	13.7	83.8	49.6	78.1	63.9	70.5
LCS Mint	31	-	61.6	13.5	88.8	49.6	72.2	60.9	70.2
WB-Grainfield	30	-	59.4	13.4	81.6	41.6	85.9	63.7	69.7
Cowboy	30	-	61.8	12.9	77.9	45.6	83.8	64.7	69.1
SY Monument	30	-	59.5	12.9	82.7	51.2	72.4	61.8	68.8
Overland	30	-	60.6	13.1	79.6	44.0	81.5	62.8	68.4
Redfield	28	-	61.3	13.2	71.1	46.2	81.9	64.1	66.4
PSB13NEDH-7-140	30	-	61.6	13.4	79.5	42.6	76.8	59.7	66.3
Ideal	31	-	61.9	13.2	74.0	41.3	83.1	62.2	66.1
SY Sunrise	27	-	59.2	13.4	81.2	48.0	67.9	57.9	65.7
Oahe	31	-	61.8	13.4	70.0	45.3	80.1	62.7	65.1
Thompson	33	-	61.5	13.6	67.3	46.0	80.3	63.1	64.5
Lyman	30	-	61.5	14.6	76.5	29.7	84.9	57.3	63.7
Avery	29	-	60.3	12.4	75.2	54.3	61.5	57.9	63.6
Alice	29	-	60.6	13.3	76.2	39.2	72.9	56.0	62.8
Wesley	31	-	58.6	14.1	75.5	34.2	76.5	55.4	62.1
Expedition	32	-	61.7	14.1	71.6	37.8	73.9	55.9	61.1
Langin	28	-	60.6	12.7	-	53.9	78.0	65.9	-
Keldin	33	-	61.1	13.5	-	49.2	78.3	63.7	-
Dyna-Gro Long Branch	30	-	60.2	12.8	-	50.3	70.8	60.6	-
SY 517 CL2	29	-	63.2	13.4	-	37.6	69.7	53.7	-
WB4462	32	-	60.8	13.3	-	-	94.8	-	-
LCS Chrome	31	-	61.0	14.3	-	-	86.4	-	-
LCS Link	31	-	61.1	12.8	-	-	84.5	-	-
WB4418	28	-	59.2	12.6	-	-	82.5	-	-
SY Benefit	31	-	60.7	13.2	-	-	78.7	-	-
NHH144913-3	29	-	58.1	13.9	-	-	71.2	-	-
WB4623CLP	30	-	60.2	15.0	-	-	61.9	-	-
Trial Average#	31	-	60.9	13.5	74.5	43.9	80.1	-	-
LSD(0.05)†	2.2	-	1.0	0.7	7.8	10.5	10.1	-	-
C.V.%‡	4.3	-	1.2	3.6	7.5	17.0	9.0	-	-

\* Lodging score: 1, perfectly standing; to 5, completely flat.

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