

# North Dakota Soybean Variety Trial Results for 2017 and Selection Guide

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### **Soybean Variety Selection**

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and Ted Helms, NDSU Soybean Breeder**

#### **Selection**

Soybean variety selection should be based on maturity, yield, seed quality, lodging, iron-deficiency chlorosis tolerance and disease reactions. In most years, later-maturing varieties tend to yield more than early maturing varieties when evaluated at the same location. After determining a suitable maturity for the farm, comparing yields of varieties that are of similar maturity is important. Although late maturity increases yield potential, later-maturing varieties are more risky to grow than earlier-maturing varieties because an early fall frost may kill a late-maturing variety before the beans have completely filled in the pods, which will reduce yield and percent of oil greatly.

#### **Soybean Maturity**

Soybeans respond to day length and heat units, so the actual calendar date a variety will mature is highly influenced by latitude; each variety has a narrow range of north to south adaptation. Soybean yield and quality are affected if a season-ending freeze occurs before a variety reaches physiological maturity. Dates of maturity are listed in the performance tables and indicate when varieties were physiologically mature.

Physiological maturity has been reached when 95 percent of the pods have reached the mature color. Varieties may have different mature pod color. Usually, harvest can commence approximately seven to 14 days after the soybean crop is physiologically mature. Relative maturity ratings also are provided for many of the varieties entered in the trials at various locations. Relative maturity ratings for private varieties were provided by the companies entering the variety in the trial.

Varieties of maturity groups 00 (double zero), 0 (zero) and 1 are suitable for eastern North Dakota and northwestern Minnesota. Maturity group 00 is very early and primarily is grown in the northern Red River Valley and the north-central area of North Dakota. Maturity group 0 is adapted to Traill, Cass and Richland counties and other counties with similar latitudes. Maturity group 1 primarily is suitable for southern areas. These maturity groups are further subdivided. For example, a 0.1 maturity group is an early group 0 variety and a 0.9 is a late-maturity group 0 variety.

The best way to select a high-yielding variety is to use data averaged across several locations and years. Because weather conditions are unknown in advance, averaging across several years' data will identify how a variety might perform across different weather conditions. Selecting a variety that has performed well in dry and normal rainfall conditions is the best way to pinpoint a variety that does relatively well, regardless of weather fluctuations.

### **Phytophthora**

Phytophthora root rot is one of the most important disease problems of soybeans in North Dakota. Phytophthora root rot tends to be more of a problem in the Red River Valley and on poorly drained, heavy soils, but the disease can cause significant stand reduction and yield loss in other areas when conditions are favorable for disease development. Management tools available to reduce Phytophthora root rot include selection of a resistant variety, use of a fungicide seed treatment, tile drainage and crop rotation.

Most varieties have Phytophthora root rot-resistance genes, and each gene confers resistance to a different race (or races) of Phytophthora. For example, a gene that may confer resistance to Race 3 may not confer resistance to Race 4, and vice versa.

Phytophthora is a variable pathogen, and many races of the pathogen exist in North Dakota. No gene guarantees control of the pathogen. Consequently, monitoring your fields for Phytophthora root rot every year is important. If the disease is widespread, the pathogen likely has overcome the gene being used, and the gene should not be used in future plantings.

Similarly, continually rotating effective genes is very important. Lack of gene or crop rotation can speed the development of new races. In some North Dakota fields, the pathogen already has become resistant to multiple genes. Fungicide seed treatments with activity against Phytophthora may help prevent early infection. However, seed treatments do not provide seasonlong control and should be used in combination with resistance. Crop rotation may help reduce inoculum of Phytophthora but will not eradicate it from soil.

### **White Mold**

Varieties have genetic differences for tolerance or resistance to white mold. Varieties that are less susceptible to white mold should be grown on fields where white mold has a history of causing problems. The same pathogen causing white mold in soybeans causes white mold in other crops (dry bean, sunflower, pea, canola, etc.). Consequently, recent white mold problems in **any crop** in that field should be noted, and crop rotation with nonhosts, such as wheat, barley or corn, is preferred for white mold management.

Fungicides are labeled for management/suppression of white mold, but applications must be made on a preventive basis. Efficacy may be inconsistent (particularly in high disease-pressure environments) and economics in low disease-risk environments are often not favorable.

### **Iron-deficiency Chlorosis**

Iron-deficiency chlorosis (IDC) is a major problem in the eastern part of North Dakota. Iron chlorosis symptoms might be present during the two- to seven-trifoliate-leaf stages. Plants tend to recover and start to turn green again during the late vegetative, flowering and pod-filling stages. However, IDC during the early vegetative stages can reduce yield potential severely.

Some varieties are more tolerant to IDC than others. For high-pH soils with known IDC problems, select an iron chlorosis-tolerant variety of suitable maturity that is high yielding. For varieties tested in 2017, IDC scores are provided in Tables 3 and 4.

## Soybean Cyst Nematode

Soybean cyst nematode (SCN), *Heterodera glycines*, is a small parasitic roundworm that attacks the roots of soybeans. Nematodes often are undetected because above-ground symptoms are uncommon until a 15 to 30 percent yield loss has occurred.

As of 2015, SCN has been confirmed in 19 counties in North Dakota. Growers are strongly urged to test their soils for SCN. If a positive sample for SCN is found, growers should begin managing SCN actively.

Crop rotation and resistance are the most important management tools against this disease. Two sources of resistance to SCN - PI88788 and Peking - can be found in North Dakota. These sources are effective in the vast majority of the soybean fields in the state. However, the level of resistance in each variety is variable, so selecting the most resistant variety possible and monitoring the field for SCN is important.

A minimum of a two-year rotation is critical for SCN management, although a rotation out of soybean for two years is beneficial. Dry edible beans are susceptible to SCN and should not be used as a rotation crop for managing SCN. Nematicide seed treatments also are available and may help manage SCN, however, they are not a substitute for resistance and rotation.

## General Information About Tables

Variety trial data from all NDSU Research Extension Centers for all crops can be found at [www.ag.ndsu.edu/varietytrials](http://www.ag.ndsu.edu/varietytrials). The agronomic data presented in this publication are from replicated research plots using experimental designs that enable the use of statistical analysis. The least significant difference (LSD) numbers beneath the columns in tables are derived from the statistical analyses and only apply to the numbers in the column in which they appear. If the difference between two varieties exceeds the LSD 0.10 or 0.05 value, it means that with 90 or 95 percent probability, the higher-yielding variety has a significant yield advantage. If the difference between two varieties is less than the LSD value, then the variety yields are considered similar.

The abbreviation NS is used to indicate no significant difference for that trait among any of the varieties. The CV is a measure of variability in the trial. The CV stands for coefficient of variation and is expressed as a percentage. Large CVs indicate that a large amount of variation could not be attributed to differences in the varieties.

In the tables, the mean indicates the average of the observations in the column. Soybean yield, and oil and protein information are adjusted to 13 percent moisture content in the seed. Maturity date indicates physiological maturity, which is the date when 95 percent of the pods are brown or tan. At Langdon, the maturity date indicates the day when one pod on the main stem obtained the mature brown or tan color.

Look for trends for the desired trait among different experimental sites and years. Table 2 provides the full company name, abbreviated company name used in the tables and a website for the company.

Presentation of data for the varieties tested does not imply approval or endorsement by the authors or agencies conducting the tests. NDSU approves the reproduction of any table in this publication only if no portion is deleted, appropriate footnotes are given, the order of the data is not rearranged and NDSU is credited for the data.

**Table 1. Agronomic Characteristics of Public Soybean Varieties Suitable for North Dakota Production.**

Variety	Maturity	Fargo Relative		Hilum Color	Remarks <sup>1</sup>
	Group	Maturity	Height		
ND17009GT	00.9	Early	Med.	Black	2, 7
ND Henson	0.0	Early	Med.	Black	1, 2
ND Benson	0.4	Med.	Med.	Buff	1, 2, 6, 8
ND1406HP	0.6	Med.	Med.	Yellow	4, 5
Prosoy	0.8	Med. Late	Tall	Yellow	4, 5
ND Bison	0.7	Med. Late	Med.	Yellow	1, 2
ND Stutsman	0.7	Med. Late	Med.	Yellow	1, 3, 8

<sup>1</sup> Remarks: 1 = Good iron chlorosis resistance; 2 = Resistant to races 1-4 of Phytophthora root rot; 3 = Resistant to races 1 - 3 of Phytophthora root rot; 4 = Susceptible to Phytophthora root rot; 5 = Tofu bean; 6 = resistant to Soybean Cyst Nematode (SCN); 7 = Glyphosate resistant; 8 = Tolerant to metribuzin herbicide.

**Table 2. Full Company Name, Abbreviated Name Used in Tables and Website.**

Company	Abbreviated	Website
Allegiant	Allegiant	<a href="http://www.chsinc.com/allegiant">www.chsinc.com/allegiant</a>
Asgrow	Asgrow	<a href="http://www.asgrowanddekalb.com">www.asgrowanddekalb.com</a>
Bayer CropScience (Bayer)	Bayer	<a href="http://www.cropscience.bayer.us/">www.cropscience.bayer.us/</a>
Brushvale Seed Inc.	Brushvale	<a href="http://www.brushvaleseed.com">www.brushvaleseed.com</a>
Channel Bio	Channel	<a href="http://www.channelbio.com">www.channelbio.com</a>
Dahlman Seed Co.	Dahlman	<a href="http://www.dahlmanseed.com">www.dahlmanseed.com</a>
Dairyland Seed Co. Inc.	Dairyland	<a href="http://www.dairylandseed.com">www.dairylandseed.com</a>
DuPont Pioneer	Pioneer	<a href="http://www.pioneer.com">www.pioneer.com</a>
Dyna-Gro Seed	Dyna-Gro	<a href="http://www.dynagroseed.com">www.dynagroseed.com</a>
Golden Harvest	Golden H.	<a href="http://www.goldenharvestseeds.com/soybeans">www.goldenharvestseeds.com/soybeans</a>
Hefty Seed Co.	Hefty	<a href="http://www.heftyseed.com">www.heftyseed.com</a>
Integra Fortified Seed	Integra	<a href="http://www.integraseed.com">www.integraseed.com</a>
Legacy Seeds Inc.	Legacy	<a href="http://www.legacyseeds.com">www.legacyseeds.com</a>
Legend Seeds Inc.	Legend	<a href="http://www.legendseeds.net">www.legendseeds.net</a>
Mycogen Seeds	Mycogen	<a href="http://www.mycogen.com">www.mycogen.com</a>
Mustang Seeds	Mustang	<a href="http://www.mustangseeds.com">www.mustangseeds.com</a>
NorthStar Genetics	NorthStar	<a href="http://www.NorthStargenetics.com">www.NorthStargenetics.com</a>
N.D. Foundation Seed	NDSU	<a href="http://www.ag.ndsu.edu/fss/">www.ag.ndsu.edu/fss/</a>
NuTech Seed	NuTech	<a href="http://www.NuTechseed.com">www.NuTechseed.com</a>
Peterson Farms Seed (PFS)	Peterson	<a href="http://www.petersonfarmsseed.com">www.petersonfarmsseed.com</a>
Prairie Seed	Prairie	<a href="http://www.prairiebrandseed.com">www.prairiebrandseed.com</a>
Proseed Inc.	Proseed	<a href="http://www.proseed.net">www.proseed.net</a>
REA	REA	<a href="http://www.rea-hybrids.com">www.rea-hybrids.com</a>
Richland Organics	Richland	<a href="http://www.richlandifc.com">www.richlandifc.com</a>
South Dakota State University	SDSU	<a href="http://www.sdstate.edu/agronomy-horticulture-plant-science/">www.sdstate.edu/agronomy-horticulture-plant-science/</a>
Stine Seed Co.	Stine	<a href="http://www.stinseed.com">www.stinseed.com</a>
Syngenta NK Brand	Syng NK	<a href="http://www.syngenta-us.com/seed">www.syngenta-us.com/seed</a>
Terning Seeds	Terning	<a href="http://www.terningseeds.com">www.terningseeds.com</a>
Thunder Seed Inc.	Thunder	<a href="http://www.thunderseeds.com">www.thunderseeds.com</a>
Wensman Seed	Wensman	<a href="http://www.wensmanseed.com">www.wensmanseed.com</a>
WinField Croplan	Croplan	<a href="http://www.winfieldunited.com/">www.winfieldunited.com/</a>

**Table 3. 2017 NDSU Roundup Ready Soybean Iron-deficiency Chlorosis Trial - Author, T. Helms (Page 1 of 2).**

Company	Variety	4-site Mean IDC <sup>1</sup>	Company	Variety	4-site Mean IDC <sup>1</sup>	Company	Variety	4-site Mean IDC <sup>1</sup>
REA	RX0228	1.5	Dyna-Gro	S01RY86	2.0	Channel	0317R2X	2.1
Channel	0218R2X	1.5	Syng NK	NKS08-M2	2.0	Hefty	H02R3	2.1
Legend	02R21	1.6	NorthStar	NS 0072R2	2.0	Legacy	LS-0635N RR2	2.1
Pioneer	P008T22R2	1.7	Legacy	LS-1134NRR2X	2.0	Legend	03R22	2.1
Dairyland	DSR-0418/R2Y	1.7	Mustang	02356	2.0	NorthStar	NS 60053XR2	2.1
Integra	20468	1.7	Peterson	17X009	2.0	Hefty	H03X7	2.1
NorthStar	NS 60092XR2	1.7	Wensman	W1048NRX	2.0	Legacy	LS-00834RR2	2.1
NuTech	6048	1.7	Legend	007X756N	2.0	Legacy	LS-0438NRR2X	2.1
Dyna-Gro	S03RY36	1.8	Channel	00717R2X	2.0	Legend	04X765N	2.1
Legacy	LS-009X852N	1.8	Dairyland	DSR-0807/R2Y	2.0	Peterson	16R01	2.1
Dyna-Gro	SX17005XT	1.8	Golden H.	GH0391	2.0	Proseed	30-20	2.1
Prairie	PB-0578R2	1.8	NuTech	6502	2.0	Thunder	SB8703R2X	2.1
Thunder	Astro	1.8	Peterson	16R008N	2.0	Hefty	H03X8	2.1
Thunder	SB87009	1.8	Dyna-Gro	S006RY97	2.0	Dairyland	DSR-0225/R2Y	2.1
Legend	04X765	1.8	Dyna-Gro	S04XT77	2.0	Dahlman	6703XN	2.1
Wensman	W10042RX	1.8	Syng NK	GH0391	2.0	Legacy	LS-0214RR2	2.1
Legend	01X850	1.8	Dairyland	DSR-0404/R2Y	2.0	Legacy	LS-1335NRR2	2.1
NuTech	7109	1.8	Integra	20617NR2Y	2.0	Mustang	00X828	2.1
Legacy	LS-00937 RR2X	1.9	Legacy	LS-005X853	2.0	NorthStar	NS 60092XR2	2.1
Legend	006R760N	1.9	Syng NK	NKS12-R3	2.0	NorthStar	NS 60393NXR2	2.1
Proseed	70-08 XN	1.9	Prairie	PB-0987R2	2.0	Dyna-Gro	S009XT68	2.1
REA	R00727	1.9	Proseed	XT 60-40N	2.0	Hefty	H007X7	2.1
Dahlman	68008XN	1.9	Dairyland	DST-0225/R2Y	2.0	Hefty	H02X7	2.1
Syng NK	NKS03-G9	1.9	Legacy	LS-00538NRR2X	2.0	Integra	20097	2.1
NorthStar	NS 60082NXR2	1.9	Legacy	LS-00737N RR2	2.0	Integra	50069	2.1
NuTech	6097R2	1.9	Syng NK	NKS009-J1	2.0	Proseed	40-07	2.1
Thunder	3503 R2Y	1.9	NorthStar	NS 0081NR2	2.0	Hefty	H005X8	2.1
NorthStar	NS 0111R2	1.9	NorthStar	NS 0480NR2	2.0	Legacy	LS-0337NRR2X	2.1
Hefty	H009X7	1.9	NorthStar	NS 60083NXR2	2.0	Proseed	50-60N	2.1
Legacy	LS-0135 RR2	1.9	Peterson	18X008N	2.0	Stine	03RD66	2.1
Peterson	17X04N	1.9	Thunder	3601 R2Y	2.0	Dyna-Gro	S07RY45	2.1
Proseed	30-07	1.9	Integra	20126	2.1	Dyna-Gro	S12RY44	2.1
Thunder	SB88007N	1.9	Integra	50098	2.1	Dahlman	67009X	2.2
Wensman	W30099R2	1.9	Legend	005X853	2.1	Terning	TS4090NRR2Y	2.2
Legacy	LS-007X756N	1.9	NorthStar	NS 60513NXR2	2.1	Allegiant	01R80	2.2
Legacy	LS-0538RR2X	1.9	Prairie	PB-0146R2	2.1	Dyna-Gro	S005RY87	2.2
Mustang	00X698	1.9	Prairie	PB-0397R2	2.1	Integra	20215	2.2
Allegiant	008X30N	1.9	Pioneer	P007A90R	2.1	Wensman	W1086NRX	2.2
Syng NK	GH00866	1.9	Proseed	20-30	2.1	Dyna-Gro	S09RY64	2.2
Dyna-Gro	S007XT27	1.9	Proseed	40-50N	2.1	Legacy	LS-0638RR2X	2.2
Legend	009X852N	1.9	Proseed	XT60-09	2.1	REA	RX00738	2.2
Channel	0518R2X	2.0	Wensman	W10063NRX	2.1	Thunder	SB8805NR2X	2.2
Dairyland	DSR-0988/R2Y	2.0	Dairyland	DSR-0305/R2Y	2.1	Dairyland	DSR-C918/2Y	2.2
Mean		2.2	Mean		2.2	Mean		2.2
LSD 0.05		0.3	LSD 0.05		0.3	LSD 0.05		0.3
LSD 0.10		0.3	LSD 0.10		0.3	LSD 0.10		0.3



**Table 3. 2017 NDSU Roundup Ready Soybean Iron-deficiency Chlorosis Trial - Author, T. Helms (Page 2 of 2).**

4-site Mean			4-site Mean			4-site Mean		
Company	Variety	IDC <sup>1</sup>	Company	Variety	IDC <sup>1</sup>	Company	Variety	IDC <sup>1</sup>
Proseed	50-10	2.2	Integra	20915N	2.3	Legacy	LS-0836NRR2X	2.6
Integra	20062	2.2	REA	RX1327	2.3	Peterson	18X06N	2.6
Syng NK	NKS06-Q9	2.2	Thunder	3408R2YN	2.3	Legacy	LS-0738RR2X	2.6
Proseed	XT711	2.2	Wensman	W1011RX	2.3	Legacy	LS-0935NRR2	2.6
NorthStar	NS 60442NXX2	2.2	Wensman	W1121NRX	2.3	Terning	TS3091NRR2X	2.6
REA	RX0327	2.2	Wensman	W30085NR2	2.3	REA	RX0826	2.6
Thunder	SB8807NR2X	2.2	REA	RX1428	2.4	REA	RX0516	2.6
Wensman	W1050NRX	2.2	Hefty	H05X7	2.4	Legend	06X860N	2.7
Allegiant	02X03	2.2	Legend	12X862N	2.4	Wensman	W1106NRX	2.7
Hefty	Hefty H00R6	2.2	REA	RX0628	2.4	Dyna-Gro	S09XT67	2.7
Prairie	PB-1257R2	2.2	Dahlman	6806XN	2.4	Legend	13X832N	2.7
Peterson	15R07N	2.2	Proseed	50-08N	2.4	Prairie	PB-00928R2	2.7
Thunder	SB8811NR2X	2.2	Wensman	W1074NRX	2.4	Prairie	PB-0863R2	2.7
Legacy	LS-0334RR2	2.2	Thunder	34006R2Y	2.4	Thunder	SB8710NR2X	2.7
NorthStar	NS 0052R2	2.2	Dahlman	56009NRR2Y	2.4	NDSU	ND17009GT	2.7
Dairyland	DSR-1313/R2Y	2.3	Golden H.	GH1253X	2.4	Dairyland	DSR-1475/R2Y	2.7
Dyna-Gro	S05XT88	2.3	Peterson	18X08N	2.4	Integra	50948N	2.7
Thunder	36008R2YN	2.3	Proseed	XT706N	2.4	Wensman	W1140NRX	2.7
Thunder	37004R2Y	2.3	Pioneer	P005A27X	2.4	Allegiant	009X08	2.8
Legend	07X852N	2.3	Integra	20087	2.5	Proseed	XT610	2.8
Mustang	02311	2.3	NorthStar	NS 0012R2	2.5	Peterson	18X13N	2.8
NuTech	6008R2	2.3	Peterson	PFS 18X11N	2.5	Stine	07BA00	2.8
Allegiant	04X08N	2.3	Channel	0616R2X	2.5	Peterson	17X09N	2.8
Hefty	H008R6	2.3	Dairyland	DSR-0711/R2Y	2.5	Legacy	LS-1138NRR2X	2.8
Integra	20775N	2.3	Syng NK	NKS03-S6X	2.5	Dahlman	6709XN	2.9
Integra	50629N	2.3	Prairie	PB-0777R2	2.5	Legacy	LS-1338N RR2X	2.9
Wensman	W1039NRX	2.3	Proseed	30-80	2.5	Dairyland	DSR-1120/R2Y	2.9
Wensman	W3024R2	2.3	Proseed	XT61-20 N	2.5	Golden H.	GH1024X	3.0
Legacy	LS-00835NRR2	2.3	Syng NK	NKS14-B2X	2.5			
NorthStar	NS 0651NR2	2.3	Syng NK	NKS12-C1X	2.5			
Dahlman	6808XN	2.3	Wensman	W1129NRX	2.5			
Dyna-Gro	S11XT78	2.3	Channel	1017R2X	2.5			
Integra	51139	2.3	Dyna-Gro	S12XT07	2.5			
Legacy	LS-0237NRR2X	2.3	Golden H.	GH0674X	2.5			
Thunder	SB8814NR2X	2.3	Wensman	W1060NRX	2.5			
Channel	1318R2X	2.3	Channel	0916R2X	2.5			
Legacy	LS-1136NRR2X	2.3	Dairyland	DST00-003/R2Y	2.6			
Prairie	PB-00856R2	2.3	Proseed	XT609	2.6			
REA	RX1226	2.3	REA	RX1027	2.6			
Allegiant	005X17	2.3	Stine	09BA02	2.6			
Dahlman	5601RR2Y	2.3	Peterson	18X07N	2.6			
Dyna-Gro	S07XT28	2.3	Channel	1117R2X	2.6			
Mean		2.2	Mean		2.2	Mean		2.2
LSD 0.05		0.3	LSD 0.05		0.3	LSD 0.05		0.3
LSD 0.10		0.3	LSD 0.10		0.3	LSD 0.10		0.3

<sup>1</sup>IDC score was 1-5, with 1-green, 3-yellow, 5-dead tissue.

**Table 4. 2017 NDSU Conventional and Liberty Link Soybean Iron-deficiency Chlorosis Trial - Author, T. Helms.**

4-site			4-site		
Mean			Mean		
Company	Variety	IDC <sup>1</sup>	Company	Variety	IDC <sup>1</sup>
Dyna-Gro	S04LL37	1.3	Stine	03LH26	2.0
Check variety <sup>2</sup>	A11 (early)	1.3	Bayer	CZ 1332LL	2.0
Dyna-Gro	S06LL26	1.3	Terning	PSI0823NLL	2.0
Check variety <sup>2</sup>	A11 (early)	1.4	Legacy	LS-0958	2.0
Thunder	5803LLN	1.4	Peterson	L11-18N	2.0
Thunder	5411LLN	1.5	Stine	02LC26	2.0
NuTech	3103L	1.6	Peterson	L03-18	2.0
Golden H.	GH0670L	1.7	Golden H.	GH1468L	2.1
Integra	30808N	1.7	NDSU	Ashtabula	2.1
Bayer	CZ 0601LL	1.7	Bayer	CZ 0201LL	2.1
Dyna-Gro	S07LL57	1.7	Richland	MK0508	2.1
Peterson	L07-16N	1.7	Peterson	L12-16N	2.1
NDSU	ND Benson	1.7	Richland	MK0603	2.1
Terning	PSI1123NLL	1.7	Richland	MK9101	2.2
Peterson	L04-16	1.7	Richland	MK41	2.2
Peterson	L11-13N	1.8	Thunder	5401LL	2.2
NDSU	ND Bison	1.8	Thunder	5712LLN	2.2
Terning	PSI0723NLL	1.8	NuTech	2047L	2.3
Integra	30008LL	1.8	Brushvale	BS0858	2.3
Integra	30607N	1.8	NDSU	ND Henson	2.3
Thunder	5814LLN	1.8	Legacy	LS-1358	2.3
NuTech	2086L	1.8	Richland	MK42	2.3
Richland	MK0249	1.9	NuTech	3022L	2.3
NDSU	ND Stustman	1.9	NuTech	3115L	2.3
Bayer	CZ 0301LL	1.9	Integra	31228N	2.3
Bayer	CZ 0448LL	1.9	SDSU	Codington	2.4
NDSU	Sheyenne	1.9	Richland	MK1016	2.5
Thunder	5707LLN	1.9	Stine	01LH22	2.5
Thunder	5605LLN	1.9	Brushvale	BS1247	2.5
Dyna-Gro	S11LL48	2.0	Richland	MK808CN	2.5
Integra	30208NLL	2.0	Brushvale	BS1512	2.7
NuTech	3066L	2.0	Brushvale	BS1146	2.8
Bayer	CZ 0525LL	2.0	SDSU	Roberts	2.9
Bayer	CZ 1028LL	2.0	NDSU Check <sup>2</sup>	Sargent(2)	2.9
Bayer	CZ 1201LL	2.0	NDSU Check <sup>2</sup>	Sargent	3.1
Mean		2.0	Mean		2.0
LSD 0.05		0.3	LSD 0.05		0.3
LSD 0.10		0.3	LSD 0.10		0.3

<sup>1</sup>IDC score was 1-5, with 1-green, 3-yellow, 5-dead tissue.

<sup>2</sup>Duplicate check cultivars to validate data.



**Table 5. 2017 NDSU Roundup Ready and Xtend Soybean Iron-deficiency Chlorosis Yield Trial - Author, T. Helms.**

Company/Brand	Variety	Maturity <sup>1</sup> (date)	IDC Score <sup>2</sup> (1-5)	2017 Seed Yield (bu/a)			
				Hunter	Leonard	Colfax	3-site Avg.
Channel	0218R2X	9/18	2.0	38.0	16.8	24.3	26.4
Channel	0317R2X	9/26	2.4	36.9	11.2	25.3	24.5
Channel	0518R2X	9/26	2.2	39.9	19.0	27.3	28.7
Channel	1318R2X	10/3	2.5	43.7	12.3	29.4	28.5
Dahlman	6703XN	9/25	2.5	26.5	7.7	21.0	18.4
Dahlman	68008XN	9/19	2.5	23.9	4.1	22.3	16.8
Dahlman	6806XN	9/30	2.7	31.5	0.9	21.0	17.8
Dyna-Gro	S05XT88	9/28	2.4	36.9	8.2	20.0	21.7
Dyna-Gro	S07RY45	9/30	2.6	43.2	7.8	31.1	27.4
Dyna-Gro	S11XT78	10/1	2.6	39.7	6.9	28.9	25.2
Golden H.	GH0391	9/23	2.6	42.0	16.2	27.9	28.7
Golden H.	GH1253X	10/1	2.5	35.4	5.4	27.8	22.9
Integra	20775N	9/29	2.5	41.3	4.0	30.5	25.3
Integra	20915N	10/3	2.8	36.9	8.4	28.1	24.5
Integra	30808N	10/2	3.3	31.5	0.0	20.6	17.4
Legend	007X756N	9/15	2.2	30.6	10.2	23.5	21.4
Legend	02R21	9/16	2.0	35.4	14.5	27.7	25.9
Legend	04X765	9/24	2.5	35.7	11.1	23.8	23.5
Peterson	15R07N	9/30	2.6	29.5	6.6	26.8	21.0
Peterson	17X04N	9/25	2.6	26.1	7.1	22.2	18.5
Peterson	18X07N	9/29	2.6	31.3	7.9	22.8	20.7
Peterson	18X11N	10/5	3.0	21.9	2.0	19.9	14.6
Prairie	1257R2	10/3	2.6	41.7	15.4	29.1	28.7
Prairie	PB-0578R2	9/23	2.3	41.7	14.9	35.4	30.7
Prairie	PB-0777R2	10/2	2.7	40.2	2.4	18.6	20.4
Prairie	PB-0863R2	10/1	2.5	32.3	3.6	31.6	22.5
REA	RX0228	9/15	2.1	41.1	23.5	29.8	31.5
REA	RX0327	9/22	2.5	38.1	9.5	28.7	25.4
REA	RX0516	9/27	2.6	37.5	0.7	34.1	24.1
REA	RX0628	9/26	2.0	42.4	17.0	27.9	29.1
Stine	07BA00	9/29	3.0	23.4	0.0	19.5	14.3
Syng NK	S08-M2	9/30	2.5	33.8	11.9	25.1	23.6
Syng NK	S12-R3	10/1	2.5	45.7	13.2	37.0	32.0
Thunder	3503R2Y	9/22	2.3	37.2	11.9	25.2	24.8
Thunder	SB8703R2X	9/21	2.4	35.7	6.2	29.4	23.8
Thunder	SB8807NR2X	9/29	2.7	35.2	9.4	27.5	24.0
Wensman	W1039NRX	9/24	2.3	39.1	14.7	27.0	26.9
Wensman	W1048NRX	9/25	2.4	36.9	6.0	17.3	20.1
Wensman	W1050NRX	9/28	2.5	37.4	6.6	22.4	22.1
Wensman	W1074NRX	9/29	2.4	41.2	6.6	26.5	24.8
Mean		9/27	2.5	41.2	9.1	26.1	23.7
CV %		5.5	15.9	15.5	47.8	24.4	23.2
LSD 0.05		3.0	0.3	7.7	6.1	8.9	4.4
LSD 0.10		3.0	0.3	6.4	5.0	7.4	3.6

Hunter and Colfax - Planted: May 15. Leonard - Planted: May 26.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.<sup>2</sup>Iron-deficiency chlorosis visual score based on one site. Score was 1-5, with 1-green, 3-yellow, 5-dead tissue.

**Table 6. 2017 NDSU Roundup Ready Soybean Cyst Nematode Yield Trial - Author, T. Helms.**

Company	Variety	Maturity <sup>1</sup> (date)	Absaraka	Colfax	Yield		
					Galesburg	Prosper	4-site Avg.
					-----bu/a-----		
Channel	0218R2X	9/12	36.4	39.7	44.1	27.5	36.9
Channel	0317R2X	9/16	47.7	44.2	43.4	39.5	43.7
Channel	0518R2X	9/21	49.0	50.1	45.3	43.1	46.9
Channel	1318R2X	9/26	52.6	58.6	49.7	47.7	52.2
Dahlman	6703XN	9/16	38.7	38.0	45.9	43.8	41.6
Dahlman	68008XN	9/10	30.1	42.5	38.4	20.1	32.8
Dahlman	6806XN	9/23	48.7	47.0	41.9	36.7	43.6
Dyna-Gro	S07RY45	9/23	51.3	54.8	42.8	51.6	50.1
Dyna-Gro	S07XT28	9/23	52.9	35.7	46.3	48.3	45.8
Dyna-Gro	S11XT78	9/26	54.2	48.7	47.1	46.7	49.2
Golden H.	GH1024X	9/25	45.9	48.1	46.6	45.9	46.6
Golden H.	GH1253X	9/25	49.4	50.4	44.0	49.9	48.4
Integra	20775N	9/23	52.5	59.2	50.6	50.3	53.1
Integra	20915N	9/24	52.3	62.2	46.6	52.7	53.4
Integra	50629N	9/22	47.1	49.4	44.6	44.0	46.3
Legend	007X756N	9/11	39.0	38.4	40.9	21.5	34.9
Legend	009X852N	9/10	27.3	38.4	42.3	23.6	32.9
Legend	06X860N	9/23	48.5	43.9	49.0	42.2	45.9
Legend	07X852N	9/21	57.5	52.7	47.3	44.6	50.5
Peterson	15R07N	9/23	45.3	46.5	48.6	51.6	48.0
Peterson	17X09N	9/27	45.7	36.6	42.2	51.9	44.1
Prairie	PB-0578R2	9/20	49.7	55.0	43.1	50.5	49.6
Prairie	PB-0777R2	9/23	51.9	57.5	41.8	53.9	51.3
Prairie	PB-0863R2	9/25	32.8	30.2	42.5	38.7	36.0
Prairie	PB-0987R2	9/23	55.3	59.6	46.7	56.2	54.4
REA	RX0628	9/20	48.6	41.8	45.2	45.3	45.2
REA	RX0826	9/23	48.5	55.0	44.1	40.8	47.1
REA	RX1027	9/24	51.8	52.9	45.1	43.0	48.2
REA	RX1327	9/27	44.1	49.6	47.9	54.3	49.0
Stine	09BA02	9/26	47.3	52.5	44.8	54.6	49.8
Syng NK	S12-R3	9/25	53.5	50.8	47.9	45.4	49.4
Syng NK	S14-B2X	9/26	45.9	52.0	46.9	53.5	49.6
Thunder	3408R2YN	9/24	55.6	50.9	45.8	48.7	50.3
Thunder	SB8710R2X	9/27	46.9	36.9	45.6	44.0	43.3
Thunder	SB8811NR2X	9/27	44.2	42.2	46.8	51.0	46.0
Thunder	SB8814NR2X	9/30	44.1	42.8	46.4	47.6	45.2
Wensman	W1039NRX	9/17	45.4	43.0	43.8	41.3	43.4
Wensman	W1048NRX	9/16	45.4	45.2	45.6	37.4	43.4
Wensman	W1060NRX	9/23	49.7	46.4	42.9	42.6	45.4
Susceptible check	Check	9/24	27.9	29.0	45.6	30.6	33.3
Mean		9/22	46.5	47.0	45.2	44.1	45.7
CV %		5.1	14.3	16.2	9.6	15.5	14.2
LSD 0.05		3.0	9.2	10.6	6.0	9.5	4.5
LSD 0.10		2.0	7.7	8.8	5.0	7.9	3.7

Absaraka and Colfax - Planted: May 13. Galesburg - Planted: May 7. Prosper - Planted: May 6.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 7. 2017 NDSU Liberty Link and Conventional Soybean Cyst Nematode Yield Trial - Author, T. Helms.**

Company	Variety	Maturity <sup>1</sup> (date)	Absaraka	Colfax	Yield		
					Galesburg	Prosper	4-site Avg.
					-----bu/a-----		
Dyna-Gro	S06LL26	9/18	46.6	28.0	41.8	24.0	35.1
Dyna-Gro	S07LL57	9/24	47.1	20.1	41.3	36.5	36.3
Dyna-Gro	S11LL48	9/30	56.9	45.3	32.3	58.8	48.3
Golden H.	GH0670L	9/25	48.3	17.8	38.2	33.1	34.4
Golden H.	GH1468L	10/1	54.6	32.0	33.2	61.5	45.3
Integra	30607L	9/23	49.8	28.8	40.8	36.5	39.0
Integra	30808L	9/25	49.0	22.5	36.8	34.6	35.7
Integra	31228N	9/30	58.8	36.6	30.7	57.8	46.0
NDSU	Benson	9/21	45.3	21.4	43.9	43.7	38.6
NDSU	Bison	9/24	41.2	18.3	38.1	29.5	31.8
Richland	MK808CN	9/26	45.5	37.5	40.1	56.2	44.8
Thunder	5411LN	9/27	48.7	24.8	42.6	33.2	37.3
Thunder	5707LLN	9/25	46.6	20.3	37.9	23.8	32.2
Thunder	5605LLN	9/24	52.3	23.9	40.8	42.2	39.8
Mean		9/25	49.3	27.0	38.5	40.8	38.8
CV %		5.2	8.4	31.2	14.0	22.1	17.5
LSD 0.05		3.0	6.3	11.3	8.0	14.8	4.6
LSD 0.10		2.0	5.2	9.4	6.6	12.3	3.8

Absaraka and Colfax - Planted: May 13. Galesburg - Planted: May 7. Prosper - Planted: May 6.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 8. 2017 NDSU Combined Central Roundup Ready and Xtend Soybean Locations in North Dakota - Author, T. Helms.**

Company/ Brand	Variety	Maturity <sup>1</sup> (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield			2-yr. Avg.
						Arthur	Grandin	2-site Avg. (bu/a)	
Channel	0218R2X	9/11	42	18.4	34.8	51.2	49.7	50.4	--
Channel	0317R2X	9/13	33	18.2	35.4	51.4	56.6	54.0	--
Channel	0518R2X	9/20	37	17.2	37.0	52.0	49.9	50.9	--
Channel	0616R2X	9/15	32	16.9	35.6	48.3	47.8	48.1	--
Dairyland	DSR-0305/R2Y	9/13	30	18.6	34.4	43.8	48.8	46.3	49.8
Dairyland	DSR-0404/R2Y	9/15	35	17.6	35.8	54.2	48.2	51.2	--
Dairyland	DSR-0418/R2Y	9/18	34	17.5	36.6	54.5	53.2	53.9	--
Dairyland	DSR-0711/R2Y	9/19	36	18.1	35.6	53.6	53.6	53.6	56.9
Dyna-Gro	S04XT77	9/14	33	17.2	36.8	52.2	50.5	51.4	53.0
Dyna-Gro	S05XT88	9/19	31	18.8	34.4	46.7	47.5	47.1	--
Dyna-Gro	S07RY45	9/22	37	17.5	35.7	54.0	54.5	54.2	57.1
Dyna-Gro	S07XT28	9/18	35	16.8	37.4	48.6	52.6	50.6	--
Golden H.	GH0391	9/14	34	16.9	36.2	57.9	49.7	53.8	--
Golden H.	GH0674X	9/18	30	17.2	37.1	47.6	51.4	49.5	--
Integra	20775N	9/21	35	17.6	35.8	48.4	49.6	49.0	54.8
Integra	50629N	9/20	35	17.5	35.7	43.9	47.9	45.9	--
Legacy	LS-0334RR2	9/16	33	16.9	37.4	47.6	51.7	49.7	54.2
Legacy	LS-0438RR2X	9/18	33	17.5	36.7	45.3	52.0	48.7	--
Legacy	LS-0638RR2X	9/21	35	17.9	35.2	53.3	51.7	52.5	--
Legacy	LS-0738RR2X	9/19	37	17.3	36.3	48.4	47.6	48.0	--
Legend	009X852N	9/8	36	18.5	35.0	49.8	48.8	49.3	--
Legend	01X850	9/10	31	17.8	34.4	32.4	47.8	40.1	--
Legend	06X860N	9/21	33	17.8	35.8	55.4	50.7	53.1	--
NDSU	ND17009GT	9/8	33	18.3	37.5	41.1	46.5	43.8	--
Peterson	1507N	9/19	37	17.2	36.5	43.3	49.7	46.5	52.5
Peterson	17X04N	9/13	34	18.0	35.4	54.6	50.3	52.5	53.9
Peterson	18X06N	9/17	35	17.2	37.2	48.0	47.2	47.6	--
Prairie	PB-0397R2	9/15	30	17.9	35.0	42.0	49.3	45.7	--
Prairie	PB-0578R2	9/19	32	17.9	36.1	39.1	48.6	43.9	--
Prairie	PB-0777R2	9/21	36	18.0	35.0	48.6	52.5	50.5	55.0
Proseed	30-80	9/21	36	17.5	35.7	45.9	50.5	48.2	53.2
Proseed	XT604	9/17	33	17.8	35.6	50.3	47.9	49.1	--
Proseed	XT706N	9/21	33	17.6	36.0	49.2	48.0	48.6	--
REA	RX0228	9/11	37	18.9	33.9	47.9	56.1	52.0	--
REA	RX0327	9/14	32	17.8	36.0	58.7	56.5	57.6	--
REA	RX0516	9/16	32	16.4	36.4	55.0	52.6	53.8	--
REA	RX0628	9/21	37	17.2	37.2	43.1	49.1	46.2	--
Stine	07BA00	9/20	33	17.5	35.5	51.5	50.3	50.9	--
Syng NK	S03-G9	9/13	29	18.4	34.2	50.5	50.3	50.4	--
Syng NK	S06-Q9	9/16	29	18.0	35.4	44.4	51.7	48.0	52.8
Thunder	3503R2Y	9/16	33	17.2	37.4	52.4	48.5	50.4	--
Thunder	Astro	9/11	35	17.4	35.6	47.3	43.2	45.2	--
Thunder	SB8805NR2X	9/18	35	17.2	37.2	53.6	52.1	52.9	--
Thunder	SB8807NR2X	9/20	35	16.6	37.0	46.0	49.9	47.9	--
Wensman	W1039NRX	9/17	33	18.1	34.4	46.9	51.5	49.2	--
Wensman	W1050NRX	9/18	32	18.3	35.5	47.4	51.7	49.6	--
Wensman	W1060NRX	9/21	36	18.1	35.2	48.4	50.9	49.7	--
Wensman	W1074NRX	9/21	35	17.1	36.8	46.7	50.3	48.5	--
Mean		9/17	34	17.7	35.9	48.8	50.4	49.6	53.9
CV %		3.6	7.1	3.6	2.8	12.8	7.7	10.5	--
LSD 0.05		2.0	3.0	1.3	2.8	10.0	6.2	6.0	--
LSD 0.10		2.0	3.0	1.1	2.3	8.3	5.2	5.0	--

Planted: Arthur, May 12, and Grandin, May 10.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 9. 2017 NDSU Combined Central Conventional and Liberty Link Soybean Locations in North Dakota - Author, T. Helms.**

Company/ Brand	Variety	Maturity <sup>1</sup> (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield			2-yr. Avg.
						Arthur	Grandin	2-site Avg. ------(bu/a)-----	
Bayer	CZ 0201LL	9/13	27	18.8	34.6	38.0	47.9	42.9	48.1
Bayer	CZ 0301LL	9/20	23	18.1	35.5	34.0	50.3	42.1	50.3
Bayer	CZ 0525LL	9/18	27	18.4	36.1	37.5	48.7	43.1	52.9
Bayer	CZ 0601LL	9/22	29	18.1	34.0	41.1	47.3	44.2	--
Dyna-Gro	S04LL37	9/19	28	17.9	34.7	37.7	48.0	42.9	49.1
Dyna-Gro	S06LL26	9/20	26	17.7	35.3	33.7	45.4	39.5	49.0
Dyna-Gro	S07LL57	9/21	27	18.1	33.9	41.1	51.2	46.2	53.4
Integra	30607N	9/19	25	18.8	35.7	36.2	49.8	43.0	50.7
NDSU	Ashtabula	9/15	28	18.6	34.5	34.4	48.6	41.5	47.0
NDSU	ND Benson	9/14	28	17.9	36.1	39.1	46.7	42.9	49.7
NDSU	ND Bison	9/19	26	18.2	35.3	33.9	44.6	39.2	47.4
NDSU	ND Henson	9/9	22	18.3	35.4	34.6	44.2	39.4	45.3
NDSU	ND Stutsman	9/19	30	18.9	33.7	39.8	50.2	45.0	53.8
NDSU	Sheyenne	9/19	29	18.4	34.7	41.0	47.8	44.4	50.9
NuTech	2047L	9/19	27	18.0	35.0	43.6	51.1	47.3	--
NuTech	3022L	9/14	27	18.7	34.4	42.6	43.1	42.9	--
NuTech	3066L	9/21	30	18.2	36.5	38.0	49.0	43.5	52.0
Peterson	L03-18	9/19	22	18.1	35.5	28.6	45.7	37.2	--
Peterson	L04-16	9/19	26	18.6	35.8	38.4	49.0	43.7	52.2
Richland	MK0249	9/14	24	17.2	34.7	34.0	43.1	38.6	45.4
Richland	MK0603	9/18	31	16.4	35.8	35.0	34.4	34.7	45.6
Terning	PSI0723NLL	9/21	25	17.6	34.7	35.6	50.0	42.8	--
Terning	PSI0823NLL	9/24	28	18.5	35.1	44.0	49.5	46.8	--
Thunder	5401LL	9/13	23	19.1	33.8	31.0	49.9	40.5	46.1
Thunder	5605LLN	9/20	27	18.8	35.7	36.3	49.3	42.8	53.1
Thunder	5707LLN	9/21	29	17.6	34.6	45.9	53.4	49.6	49.4
Mean		9/18	27	18.2	35.0	37.5	47.6	42.6	49.5
CV %		3.9	9.0	1.7	1.6	11.3	9.8	10.4	--
LSD 0.05		2.0	2.0	0.7	1.2	7.3	7.9	5.0	--
LSD 0.10		2.0	2.0	0.6	1.0	6.1	6.6	4.2	--

Planted: Arthur, May 12, and Grandin, May 10.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 10. 2017 NDSU Combined Southern Roundup Ready and Xtend Soybean Locations in North Dakota - Author, T. Helms.**

Company/ Brand	Variety	Maturity <sup>1</sup>	Plant Height	Seed Oil	Seed Protein	Seed Yield			
		(date)	(inch)	(%)	(%)	Fairmount	Walcott	2-site Avg.	2-yr. Avg.
						------(bu/a)-----			
Channel	0916R2X	9/24	35	18.2	34.2	45.8	57.6	51.7	--
Channel	1017R2X	9/27	34	18.1	33.8	52.3	51.4	51.9	--
Channel	1117R2X	9/29	34	18.4	34.2	59.2	60.0	59.6	--
Channel	1318R2X	9/30	33	17.7	34.8	44.4	64.8	54.6	--
Dahlman	6709XN	9/27	34	17.7	35.5	47.8	56.3	52.1	56.8
Dahlman	6808XN	9/23	33	17.7	35.2	42.6	58.2	50.4	--
Dairyland	DSR-0807/R2Y	9/24	32	17.7	35.5	47.0	50.0	48.5	50.8
Dairyland	DSR-0988/R2Y	9/27	32	17.8	33.6	55.4	56.1	55.7	59.1
Dairyland	DSR-1120/R2Y	10/1	32	19.3	32.7	50.1	57.7	53.9	53.7
Dairyland	DSR-1313/R2Y	10/1	30	18.8	33.3	49.4	60.9	55.1	--
Dyna-Gro	S07RY45	9/26	30	18.4	32.9	55.9	64.6	60.2	63.5
Dyna-Gro	S11XT78	9/28	31	18.3	34.5	47.1	50.2	48.7	--
Dyna-Gro	S12RY44	9/27	30	18.1	34.2	54.1	58.8	56.5	60.7
Dyna-Gro	S12XT07	9/29	37	18.5	33.8	49.0	58.1	53.5	--
Golden H.	GH1024X	9/27	31	17.3	35.3	55.1	48.3	51.7	--
Integra	51139	9/27	31	18.7	33.0	50.6	52.2	51.4	--
Integra	20915N	9/29	32	18.5	33.8	55.8	51.7	53.7	57.1
Legacy	LS-0935N RR2	9/26	30	18.4	33.9	50.1	60.7	55.4	60.0
Legacy	LS-1136NRR2X	9/27	35	18.2	34.4	54.2	56.4	55.3	--
Legacy	LS-1138NRR2X	9/29	32	18.5	33.4	54.0	54.1	54.0	--
Legacy	LS-1338NRR2X	10/3	34	18.5	33.1	50.6	58.7	54.7	--
Legend	07X852N	9/22	33	18.3	32.8	48.3	59.7	54.0	--
Legend	12X862N	9/28	32	18.2	34.8	53.0	55.7	54.4	--
Legend	13X832N	10/1	34	18.8	34.0	56.9	64.1	60.5	--
NuTech	7109	9/28	32	18.5	33.2	47.8	58.6	53.2	--
NuTech	6097R2	9/22	23	20.3	31.2	33.0	55.7	44.3	49.5
Peterson	17X09N	9/28	35	18.0	34.2	51.1	62.2	56.6	60.1
Peterson	18X08N	9/25	34	18.0	34.8	46.0	62.7	54.3	--
Peterson	18X11N	9/29	34	18.1	34.4	53.5	63.1	58.3	--
Prairie	PB-0777R2	9/26	32	18.1	34.5	47.8	66.0	56.9	--
Prairie	PB-0987R2	9/26	31	18.1	33.0	53.5	61.2	57.4	60.7
Prairie	PB-1257R2	10/3	33	18.3	32.8	59.4	59.1	59.3	61.6
Proseed	XT609	9/26	33	18.0	34.6	46.7	60.6	53.7	--
Proseed	XT610	9/25	32	18.0	34.7	52.9	56.1	54.5	58.6
Proseed	XT709	9/27	33	18.0	35.2	49.0	58.1	53.6	--
Proseed	XT711	9/28	32	18.6	33.6	48.4	61.3	54.8	--
REA	RX0826	9/23	33	18.3	34.1	49.0	50.0	49.5	--
REA	RX1027	9/26	34	17.8	34.4	54.3	64.4	59.3	--
REA	RX1327	9/29	34	18.1	33.5	41.3	55.0	48.1	--
REA	RX1226	9/27	34	18.1	34.3	54.2	46.1	50.1	--
Stine	09BA02	9/29	31	17.6	34.6	48.8	56.4	52.6	--
Syng NK	S08-M2	9/26	31	17.9	34.3	39.9	53.9	46.9	53.7
Syng NK	S12-C1X	9/28	33	19.5	31.4	50.1	56.3	53.2	--
Syng NK	S12-R3	9/29	33	17.9	35.1	58.8	56.6	57.7	59.6
Terning	TS4090NRR2Y	9/26	30	18.2	33.2	52.2	61.4	56.8	59.7
Terning	TX3091NRR2X	9/27	35	17.9	34.9	47.7	62.8	55.2	--
Thunder	3408R2YN	9/28	34	17.9	34.4	47.1	64.7	55.9	59.1
Thunder	SB8710NR2X	9/26	32	18.1	34.8	49.7	59.6	54.6	58.0
Thunder	SB8811R2X	9/29	31	18.3	34.0	50.0	57.7	53.8	--
Wensman	W1086NRX	9/25	31	17.8	35.3	49.5	62.6	56.1	--
Wensman	W1106NRX	9/26	34	17.8	35.0	49.6	58.4	54.0	56.0
Wensman	W1121NRX	9/27	31	18.7	33.1	47.2	49.2	48.2	--
Wensman	W1129NRX	9/30	35	18.4	34.3	49.1	59.8	54.4	61.3
Mean		9/27	33	18.2	34.0	50.1	57.8	54.0	58.0
CV %		3.1	6.1	1.2	1.8	10.6	16.0	14.0	--
LSD 0.05		3.0	2.0	0.4	1.2	8.5	15.0	8.5	--
LSD 0.10		3.0	2.0	0.3	1.0	7.1	12.5	7.1	--

Planted: Fairmount, May 11; Walcott, May 15.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.



**Table 11. 2017 NDSU Combined Southern Conventional and Liberty Link Soybean Locations in North Dakota - Author, T. Helms.**

						Seed Yield			
Company/ Brand	Variety	Maturity <sup>1</sup>	Plant Height	Seed Oil	Seed Protein	Fairmount	Walcott	2017 2-site Avg.	2-yr. Avg.
		(date)	(inch)	(%)	(%)	------(bu/a)-----			
Bayer	CZ 0601LL	9/26	30	18.1	33.8	33.9	52.2	43.0	--
Bayer	CZ 1028LL	9/30	31	18.1	34.5	46.1	51.7	48.9	--
Bayer	CZ 1201LL	10/3	29	18.5	34.4	43.6	47.9	45.7	54.7
Bayer	CZ 1332LL	9/29	29	18.2	34.4	42.4	50.2	46.3	52.9
Brushvale	BS0858	9/23	31	17.6	35.8	33.6	54.9	44.3	--
Brushvale	BS1146	10/1	31	17.7	36.0	43.8	56.4	50.1	--
Brushvale	BS1247	10/5	32	17.7	35.0	43.0	59.2	51.1	--
Brushvale	BS1512	10/3	31	18.0	35.2	39.3	60.6	50.0	56.5
Dyna-Gro	S07LL57	9/26	29	18.5	32.6	35.1	53.7	44.4	48.9
Dyna-Gro	S11LL48	10/3	32	17.6	35.6	44.0	60.5	52.2	--
Integra	30808N	9/25	30	17.9	34.4	37.9	49.0	43.5	--
Integra	31228N	10/2	32	18.6	34.3	52.8	47.7	50.3	--
Legacy	LXS-0958	9/30	28	17.6	35.8	43.1	53.5	48.3	--
Legacy	LXS-1358	10/5	28	19.3	32.2	47.5	50.5	49.0	--
NDSU	Ashtabula	9/20	28	18.9	33.0	25.2	54.8	40.0	41.8
NDSU	ND Benson	9/21	29	18.4	34.9	38.0	44.6	41.3	44.5
NDSU	ND Bison	9/25	27	19.0	33.3	29.2	55.6	42.4	43.9
NDSU	ND Stutsman	9/25	30	19.2	32.8	49.9	56.5	53.2	52.5
NDSU	Sheyenne	9/24	28	17.3	37.2	43.6	55.6	49.6	49.3
NuTech	2086L	9/29	27	18.2	34.1	25.9	50.3	38.1	--
NuTech	3066L	9/25	30	19.0	35.0	37.8	48.8	43.3	46.7
NuTech	3103L	9/29	32	18.7	35.7	41.2	57.9	49.6	--
NuTech	3115L	10/3	32	18.2	35.0	41.0	51.7	46.4	54.3
Peterson	L07-16N	9/25	29	18.8	31.8	43.6	51.6	47.6	47.9
Peterson	L11-13N	9/29	30	18.8	35.1	41.6	56.3	48.9	53.8
Peterson	L11-18N	10/3	30	18.0	34.6	44.0	55.0	49.5	--
Peterson	L12-16N	9/30	28	18.2	35.0	39.8	41.5	40.6	55.1
Richland	MK0508	9/23	25	17.5	33.4	22.7	34.6	28.7	32.5
Richland	MK1016	9/24	28	17.3	35.3	29.6	46.1	37.9	40.3
Richland	MK42	9/23	29	18.2	34.4	42.1	50.2	46.1	--
Richland	MK808CN	9/26	29	18.9	34.1	44.3	53.3	48.8	49.4
SDSU	Codington	9/26	29	18.7	35.1	29.4	50.8	40.1	38.9
SDSU	Roberts	9/26	28	20.3	31.5	27.3	50.6	38.9	44.3
Terning	PSI 1123NL	9/30	31	18.2	35.4	37.5	58.7	48.1	--
Thunder	5411LLN	10/3	31	18.6	36.0	46.3	55.8	51.1	53.2
Thunder	5605LLN	9/28	27	18.7	35.0	35.4	52.8	44.1	--
Thunder	5707LLN	9/26	31	18.2	32.7	35.5	50.6	43.0	--
Thunder	5712LLN	10/3	31	18.2	35.2	45.6	56.3	51.0	--
Mean		9/28	30	18.3	34.5	39.0	52.3	45.7	48.0
CV %		3.7	5.7	2.2	2.7	28.2	12.5	19.9	--
LSD 0.05		4.0	2.0	0.8	0.9	18.0	10.8	10.3	--
LSD 0.10		3.0	2.0	0.6	0.7	15.0	9.0	8.6	--

Planted: Fairmount, May 11; Walcott, May 15.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 12. 2017 Soybean - Dryland, Roundup Ready - Carrington - Authors, M. Ostlie, B. Schatz and G. Endres (Page 1 of 2).**

Company/ Brand	Variety	Mat. Group	Maturity <sup>1</sup>	Pod Ht	Plant Ht	Plant Lodge <sup>2</sup>	Seeds/ Pound	Test Weight	Seed Oil	Seed Protein	Seed yield		
											2017	3-yr. Avg.	
												----- (bu/a) -----	
Channel	0218R2X	0.2	9/9	4	33	0.3	2,752	56.8	19.0	35.4	57.1	--	
Channel	0317R2X	0.3	9/10	5	25	1.0	3,172	57.1	18.3	36.0	61.5	--	
Channel	0518R2X	0.5	9/14	8	31	1.5	3,109	57.0	17.7	37.0	57.6	--	
Channel	0616R2X	0.6	9/13	6	28	1.3	3,032	57.1	16.7	36.3	61.8	--	
Dairyland	DSR-C918/R2Y	00.9	9/8	5	26	0.8	3,263	56.7	17.4	37.1	58.4	44.4	
Dairyland	DST-00-003/R2Y	0.0	9/9	4	27	0.3	2,731	56.0	19.2	34.7	61.7	--	
Dairyland	DSR-0225/R2Y	0.2	9/6	5	30	0.5	3,368	56.8	19.3	35.5	58.4	--	
Dairyland	DSR-0418/R2Y	0.4	9/13	7	31	0.8	2,807	57.7	17.5	37.2	58.5	--	
Dyna-Gro	S03RY36	0.3	9/10	5	24	0.0	2,658	57.4	17.8	37.6	62.5	49.1	
Dyna-Gro	S04XT77	0.4	9/11	6	28	1.0	3,217	56.8	18.5	36.1	62.3	--	
Dyna-Gro	S05XT88	0.5	9/12	6	26	0.5	3,224	56.0	18.3	37.1	56.3	--	
Hefty	H02X7	0.2	9/10	7	34	1.0	2,969	57.3	18.0	35.4	52.3	--	
Hefty	H03X7	0.3	9/10	5	24	0.8	3,201	56.7	18.5	36.0	57.7	--	
Hefty	H05X7	0.5	9/14	6	28	1.8	3,644	57.2	17.6	36.3	52.6	--	
Integra	20215	00.9	9/7	5	24	0.0	3,130	56.9	17.3	36.9	58.8	46.8	
Integra	20300	0.3	9/10	6	26	0.0	3,293	56.6	17.8	36.5	54.4	49.9	
Integra	50319N R2X	0.3	9/13	7	33	0.3	2,750	57.5	18.0	34.9	56.9	--	
Integra	50629N R2X	0.6	9/15	6	31	1.5	3,299	57.4	17.8	36.1	55.9	--	
Legacy	LS-0337N RR2X	0.3	9/11	6	28	1.3	3,144	57.0	18.3	36.2	62.7	--	
Legacy	LS-0334 RR2	0.3	9/13	5	27	0.5	3,456	57.2	17.8	37.3	58.2	53.0	
Legacy	LS-0438 RR2	0.4	9/14	6	30	0.8	3,253	56.7	17.9	37.3	60.1	--	
Legacy	LS-0635N RR2	0.6	9/15	8	28	0.5	3,168	57.2	17.4	37.8	55.2	45.8	
Legacy	LS-0638N RR2X	0.6	9/15	6	31	1.0	3,487	57.1	17.8	35.4	57.3	--	
Legacy	LS-0738N RR2X	0.7	9/15	6	30	0.3	3,495	57.1	17.8	36.4	55.8	--	
Legacy	LS-0836N RR2X	0.8	9/16	7	34	1.3	3,293	57.2	17.5	37.1	53.9	--	
Legacy	LS-0935N RR2	0.9	9/15	7	28	0.5	2,973	57.2	17.7	35.9	58.8	--	
Legend	LS 009X852N	00.9	9/7	4	28	0.3	2,940	57.3	19.2	34.6	53.3	--	
Legend	LS 01X850	0.1	9/8	5	33	1.0	3,440	57.8	17.4	35.3	57.5	--	
Legend	LS 03R22	0.3	9/12	6	28	0.0	3,270	56.3	18.1	35.9	58.6	--	
Legend	LS 04X765N	0.4	9/12	4	25	0.8	3,169	56.5	18.7	35.4	54.0	--	
Legend	LS 06X860N	0.6	9/15	5	27	1.3	3,312	57.4	18.4	35.6	59.3	--	
Legend	LS 07X852N	0.7	9/15	7	32	1.0	3,633	57.1	17.7	35.6	55.9	--	
NDSU	ND17009GT	00.9	9/6	4	24	0.0	3,129	57.9	18.5	36.5	49.2	--	
NorthStar	NS 60393NXR2	0.3	9/12	8	32	0.5	2,800	56.9	18.3	34.8	59.0	--	
NorthStar	NS 0480NR2	0.4	9/13	7	30	1.0	3,278	56.8	17.7	37.1	61.7	50.1	
NorthStar	NS 60442NXR2	0.4	9/9	5	25	0.5	3,233	56.7	18.7	35.3	54.9	--	
NorthStar	NS 60513NXR2	0.5	9/14	5	28	1.0	3,313	56.6	18.2	36.9	62.8	--	
NorthStar	NS 0651NR2	0.6	9/14	7	30	1.3	3,084	57.0	17.6	37.2	59.5	--	
NuTech	6048	0.4	9/10	6	34	1.3	2,907	57.3	17.9	37.0	59.6	--	
NuTech	6097R2	0.9	9/12	6	27	1.0	2,698	56.6	19.8	33.8	69.0	51.8	
Peterson	17X04N	0.4	9/10	6	25	1.3	3,451	56.6	18.4	36.0	57.3	--	
Peterson	18X06N	0.6	9/13	6	28	0.5	3,318	56.8	17.7	37.4	55.9	--	
Prairie	PB-0578R2	0.5	9/14	7	30	0.5	3,041	57.7	17.3	37.7	55.2	--	
Prairie	PB-0777R2	0.7	9/16	6	31	0.5	3,142	57.3	17.5	37.1	59.0	--	
Prairie	PB-0987R2	0.9	9/16	9	33	1.5	3,577	57.4	17.2	37.0	59.1	--	
Proseed	XT604	0.4	9/10	5	25	1.0	3,251	56.8	18.6	35.8	58.7	--	
Mean			9/12	6	29	0.8	3,149	57.0	18.1	36.2	57.8	48.9	
CV %			1.0	25	11.8	85	5.6	0.7	1.6	1.4	9.4	--	
LSD 0.05			1.7	2.1	4.7	0.9	246	0.6	0.4	0.7	7.4	--	
LSD 0.10			1.4	1.7	3.9	0.7	207	0.5	0.3	0.6	6.2	--	

**Table 12. 2017 Soybean - Dryland, Roundup Ready - Carrington - Authors, M. Ostlie, B. Schatz and G. Endres (Page 2 of 2).**

Company/ Brand	Variety	Mat. Group	Maturity <sup>1</sup>	Pod Ht	Plant Ht	Plant Lodge <sup>2</sup>	Seeds/ Pound	Test Weight	Seed Oil	Seed Protein	Seed yield	
											2017	3-yr. Avg.
			(date)	(inch)	(inch)	(0-9)	(seeds)	(lb/bu)	(%)	(%)	----- (bu/a) -----	
Proseed	40-50N	0.5	9/12	7	26	0.8	3,175	57.0	17.9	37.0	59.0	--
Proseed	50-60N	0.6	9/13	6	27	0.8	3,049	57.1	17.9	36.9	58.6	--
REA	RX0228	0.2	9/9	5	34	0.8	2,698	56.9	18.8	35.6	55.3	--
REA	RX0327	0.3	9/10	6	26	1.3	3,396	56.5	18.6	35.9	52.5	--
REA	RX0628	0.6	9/13	6	29	0.5	3,398	56.7	18.1	36.1	51.3	--
Thunder	SB8703	0.3	9/10	7	34	0.5	2,960	57.1	18.1	35.5	61.2	--
Thunder	SB8805N	0.5	9/14	5	29	1.0	3,194	56.3	18.2	36.9	60.2	--
Wensman	W1011RX	0.1	9/10	6	30	0.8	2,991	57.2	19.1	35.0	47.6	--
Wensman	W1039NRX	0.3	9/12	5	28	0.0	2,469	57.3	17.9	34.7	57.1	--
Wensman	W1048NRX	0.4	9/11	6	26	1.0	3,136	56.6	18.5	35.8	61.4	--
Wensman	W1050NRX	0.5	9/14	6	30	1.0	3,171	56.7	18.1	37.1	62.4	--
Mean			9/12	6	29	0.8	3,149	57.0	18.1	36.2	57.8	48.9
CV %			1.0	25	11.8	85	5.6	0.7	1.6	1.4	9.4	--
LSD 0.05			1.7	2.1	4.7	0.9	246	0.6	0.4	0.7	7.4	--
LSD 0.10			1.4	1.7	3.9	0.7	207	0.5	0.3	0.6	6.2	--

Planted: May 12. Harvested: Sept. 29. Previous crop: durum.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.<sup>2</sup>Lodging: 0-none, 9-lying flat on the ground.**Table 13. 2017 Soybean - Irrigated, Conventional and Liberty Link - Carrington - Authors, M. Ostlie, B. Schatz, K. Bjerke and C. VandeHoven.**

Company/ Brand	Variety	Mat. Group	Maturity <sup>1</sup>	Pod Ht	Plant Ht	Plant Lodge <sup>2</sup>	Seeds/ Pound	Test Weight	Seed Oil	Seed Protein	Seed Yield	
											2017	3-yr. Avg.
			(date)	(inch)	(inch)	(0-9)	(seeds)	(lb/bu)	(%)	(%)	----- (bu/a) -----	
<b>Conventional</b>												
NDSU	Ashtabula	0.4	9/18	2	34	0.3	3,474	58.0	18.7	34.7	55.3	43.2
NDSU	ND Benson	0.4	9/19	3	33	0.5	3,536	58.8	17.4	37.5	55.6	45.2
NDSU	ND Bison	0.7	9/23	3	34	0.0	3,105	58.9	17.4	35.7	57.3	44.3
NDSU	ND Henson	0.0	9/11	2	30	1.0	3,408	59.4	18.1	35.8	54.8	41.5
NDSU	ND Stutsman	0.7	9/23	3	39	0.8	3,459	59.2	17.7	35.3	60.1	48.3
NDSU	Sheyenne	0.7	9/22	3	40	0.5	3,349	59.0	17.6	35.4	53.9	46.0
<b>Liberty Link</b>												
NuTech	2086L	0.8	10/2	4	35	1.0	3,171	59.3	16.4	37.7	58.3	--
NuTech	3066L	0.6	9/24	3	34	1.0	2,950	58.6	17.3	37.3	60.8	--
Mean			9/20	3	35	0.6	3,307	58.6	17.6	36.0	57.0	44.7
CV %			1.3	31	7.5	105	5.8	0.5	1.5	1.3	7.3	-
LSD 0.05			2.3	1.1	3.7	0.9	268	0.4	0.4	0.7	5.9	--
LSD 0.10			1.8	1	3.1	0.8	225	0.3	0.3	0.6	4.9	--

Planted: May 22. Harvested: Oct. 12. Previous crop: corn.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.

**Table 14. 2017 Soybean - Irrigated, Roundup Ready - Carrington - Authors, M. Ostlie, B. Schatz, K. Bjerke and C. VandeHoven.**

Company/		Mat.		Pod	Plant	Plant	Seeds/	Test	Seed	Seed	Seed	Yield
Brand	Variety	Group	Maturity <sup>1</sup>	Ht	Ht	Lodge <sup>2</sup>	Pound	Weight	Oil	Protein	2017	2-yr.
			(date)	(inch)	(inch)	(0-9)	(seeds)	(lb/bu)	(%)	(%)	-----	-----
Dairyland	DSR-C918/R2Y	00.9	9/14	2	28	0.3	3,295	57.4	17.0	37.2	59.4	--
Dairyland	DST-00-003/R2Y	0.0	9/16	3	33	0.3	2,587	56.7	18.2	35.5	61.5	--
Dairyland	DSR-0225/R2Y	0.2	9/14	3	39	1.8	3,247	57.7	18.6	35.4	62.1	--
Dairyland	DSR-0418/R2Y	0.4	9/15	3	37	0.5	2,738	58.3	17.1	37.7	61.0	--
Dyna-Gro	S03RY36	0.3	9/18	3	33	0.5	2,576	57.8	17.4	37.1	66.5	61.0
Dyna-Gro	S04XT77	0.4	9/17	2	34	0.8	2,924	57.6	17.8	36.3	63.6	59.1
Dyna-Gro	S05XT88	0.5	9/23	2	35	1.0	2,864	57.1	17.6	36.9	63.2	--
Integra	20300	0.3	9/20	3	36	0	3,256	57.7	17.1	36.9	64.0	--
Integra	50629N R2X	0.6	9/27	3	37	1.3	3,178	57.7	17.4	35.5	63.0	--
Integra	20617N	0.7	9/25	3	35	1.0	2,816	57.7	16.8	38.1	59.3	--
Legacy	LS-0337N RR2X	0.3	9/18	3	35	1.0	2,994	57.5	17.6	36.4	63.5	--
Legacy	LS-0334 RR2	0.3	9/27	4	38	1.3	3,174	58.1	17.2	37.1	66.8	69.3
Legacy	LS 0438 RR2	0.4	9/23	2	34	0.8	3,053	57.1	17.8	36.9	65.8	--
Legacy	LS-0635N RR2	0.6	9/23	3	34	1.0	2,879	58.0	16.8	38.1	63.6	55.1
Legacy	LS-0638N RR2X	0.6	9/27	3	39	1.5	3,088	57.8	17.1	35.7	60.0	--
Legacy	LS-0738N RR2X	0.7	9/28	3	37	1.3	2,938	57.4	16.8	37.1	64.8	--
Legacy	LS-0836N RR2X	0.8	9/29	4	38	0.8	2,785	57.5	17.2	36.9	64.4	--
Legacy	LS-0935N RR2	0.9	10/2	3	39	1.3	2,640	58.0	16.8	36.2	67.4	66.7
NuTech	6048	0.4	9/19	3	40	0.5	2,815	58.3	17.4	37.4	59.3	--
NuTech	6097R2	0.9	9/26	3	32	0.3	2,656	57.8	19.6	33.5	69.7	61.1
Peterson	17X04N	0.4	9/18	2	33	0.8	2,960	57.4	17.7	36.3	63.4	60.2
Peterson	18X06N	0.6	9/23	3	36	0.3	3,029	57.8	17.2	37.3	63.9	--
Prairie	PB-0578R2	0.5	9/26	4	37	0.5	2,651	58.3	16.9	38.3	59.9	--
Prairie	PB-0777R2	0.7	9/29	3	38	1.0	2,816	57.9	17.0	37.0	65.6	--
Prairie	PB-0987R2	0.9	10/2	4	39	1.3	3,111	57.8	17.2	36.0	67.1	67.2
Proseed	40-50N	0.5	9/21	4	36	0.5	3,077	57.8	17.5	37.0	62.3	--
Proseed	50-60N	0.6	9/25	3	35	1.0	3,069	57.6	17.0	37.8	56.2	--
Proseed	30-80	0.8	9/30	3	38	1.3	2,856	57.7	17.2	36.5	63.3	--
REA	RX0228	0.2	9/18	3	42	0.5	2,794	58.0	18.1	35.8	58.8	--
REA	RX0327	0.3	9/18	2	33	0.5	2,887	57.6	17.8	36.4	65.0	--
REA	RX0628	0.6	9/26	3	39	0.8	3,032	56.8	17.8	36.2	62.7	--
Wensman	W1039NRX	0.3	9/24	4	40	1.5	2,618	58.1	17.3	35.2	58.8	--
Wensman	W1050NRX	0.5	9/25	2	35	1.5	2,955	57.4	17.4	37.0	67.2	--
Wensman	W1074NRX	0.7	9/27	2	40	1.5	3,088	57.8	17.1	35.6	65.7	--
Wensman	W1086NRX	0.8	9/28	3	38	1.0	3,095	58.1	16.6	37.9	63.4	--
Mean			9/23	3	36	0.9	2,945	57.7	17.4	36.7	62.9	62.5
CV %			1.3	19.2	5.6	62	4	0.5	1.3	0.8	4.9	--
LSD 0.05			2.3	0.8	2.8	1	166	0.4	0.3	0.4	4.4	--
LSD 0.10			1.9	0.6	2	1	139	0.3	0.2	0.4	3.6	--

Planted: May 22. Harvested: Oct. 11. Previous crop: corn.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.<sup>2</sup>Lodging: 0-none, 9-lying flat on the ground.

**Table 15. 2017 Soybean - Dryland, Conventional - Carrington - Authors, M. Ostlie, B. Schatz and G. Endres.**

										Seed Yield	
Company/ Brand	Variety	Mat. Group	Maturity <sup>1</sup>	Pod Ht	Plant Ht	Seeds/ Pound	Test Weight	Seed Oil	Seed Protein	2017	3-yr. Avg.
			(date)	(inch)	(inch)	(seeds)	(lb/bu)	(%)	(%)	---(bu/a)---	
NDSU	Ashtabula	0.4	9/10	2	23	3,105	56.5	19.6	34.5	48.4	51.4
NDSU	ND Benson	0.4	9/11	3	21	3,224	57.8	18.1	37.6	47.3	48.2
NDSU	ND Bison	0.7	9/19	2	24	3,078	57.4	18.5	35.0	56.0	--
NDSU	ND Henson	0.0	9/8	2	20	3,277	57.9	19.0	35.1	40.9	44.6
NDSU	ND Stutsman	0.7	9/13	3	26	3,194	57.8	18.9	34.1	62.2	58.6
NDSU	Sheyenne	0.7	9/14	3	25	3,251	57.6	18.7	34.5	57.1	56.0
Richland	MK0603	0.6	9/19	3	28	5,619	57.2	16.6	36.3	44.2	46.0
Richland	MK0249	0.2	9/13	2	23	4,890	57.5	18.5	33.3	45.4	47.9
Richland	MK0508	0.5	9/19	2	25	5,699	58.5	17.5	35.4	41.6	44.2
Richland	MK808CN	0.8	9/17	3	29	3,471	57.8	19.3	34.5	55.8	--
Mean			9/12	2	24	3,881	57.6	18.5	35.0	49.9	49.6
CV %			2.1	29	13.6	4.4	0.4	1.5	1.8	11.6	--
LSD 0.05			3.7	1.0	4.6	210	0.3	0.4	0.9	8.2	--
LSD 0.10			3.1	0.8	3.8	176	0.3	0.3	0.8	6.9	--

Planted: May 12. Harvested: Oct. 6. Previous crop: durum.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.**Table 16. 2017 Soybean - Dryland, Liberty Link - Carrington - Authors, M. Ostlie, B. Schatz and G. Endres.**

										Seed Yield	
Company/ Brand	Variety	Mat. Group	Maturity <sup>1</sup>	Pod Ht	Plant Ht	Seeds/ Pound	Test Weight	Seed Oil	Seed Protein	2017	2-yr. Avg.
			(date)	(inch)	(inch)	(seeds)	(lb/bu)	(%)	(%)	---(bu/a)---	
Bayer	CZ 0201 LL	0.2	9/9	3	23	2,520	57.2	18.5	36.0	44.8	45.0
Bayer	CZ 0301 LL	0.3	9/14	3	23	2,589	56.3	19.5	34.7	52.6	55.2
Bayer	CZ 0448 LL	0.4	9/10	3	20	2,527	56.0	19.2	36.2	49.0	--
Bayer	CZ 0525 LL	0.5	9/15	3	21	2,617	56.9	18.0	37.5	48.5	54.3
Bayer	CZ 0601 LL	0.6	9/14	3	20	2,524	57.8	17.3	34.7	44.9	52.4
Integra	30208N	0.2	9/9	2	22	2,528	57.0	18.6	35.5	48.1	--
Integra	30607N	0.6	9/14	3	23	2,549	56.8	18.3	36.9	56.7	--
NuTech	2086L	0.8	9/20	3	20	2,864	57.4	18.0	36.5	44.0	50.7
NuTech	3066L	0.6	9/17	3	22	2,613	57.0	18.4	37.1	50.1	54.4
Peterson	L03-18	0.3	9/11	3	22	2,470	56.0	19.2	36.0	44.8	--
Peterson	L04-16	0.4	9/13	3	22	2,415	56.2	19.1	36.5	41.4	--
Mean			9/14	3	22	2,565	56.8	18.5	36.1	47.7	52.0
CV %			1.0	27	1.5	4.8	0.3	1.1	0.8	11.9	--
LSD 0.05			1.8	NS	NS	178	0.3	0.3	0.4	8.2	--
LSD 0.10			1.5	NS	NS	148	0.2	0.3	0.4	6.9	--

Planted: May 15. Harvested: Oct. 4. Previous crop: durum.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 17. 2017 Soybean - Dryland, Roundup Ready - Dazey (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard.**

Company/ Brand	Variety	Mat. Group	Maturity <sup>1</sup>	Pod Ht	Plant Ht	Plant Lodge <sup>2</sup>	Seeds/ Pound	Test Weight	Seed Oil	Seed Protein	Seed Yield		
											2-yr.	3-yr.	
			(date)	(inch)	(inch)	(0-9)	(seeds)	(lb/bu)	(%)	(%)	2017	Avg.	Avg.
											----- (bu/a) -----		
Channel	0518R2X	0.5	9/13	4	35	0.3	3,423	57.0	16.6	38.2	58.7	--	--
Channel	0616R2X	0.6	9/12	4	32	0	3,219	56.7	16.6	36.4	60.3	--	--
Channel	0916R2X	0.9	9/14	5	35	0	3,711	56.7	16.7	38.4	59.2	--	--
Channel	1017R2X	1.0	9/14	4	35	0	3,394	56.6	16.7	37.9	57.0	--	--
Dairyland	DSR-0807/R2Y	0.8	9/13	5	36	0	3,320	56.8	16.8	37.7	62.5	62.2	--
Dairyland	DSR-0988/R2Y	0.9	9/15	4	38	0	3,929	56.4	16.8	37.4	61.1	65.6	--
Dyna-Gro	S07RY45	0.7	9/13	4	34	0	3,761	56.2	17.4	36.5	63.9	66.4	63.6
Dyna-Gro	S07XT28	0.7	9/13	5	35	0	3,678	56.1	16.7	37.8	61.2	--	--
Dyna-Gro	S09XT67	0.9	9/15	4	36	0	3,823	56.8	16.7	38.5	60.3	--	--
Integra	50629N R2X	0.6	9/13	4	37	0	3,555	56.3	17.0	36.5	56.4	--	--
Integra	20775N	0.7	9/13	3	35	0	3,718	56.8	17.2	36.8	62.7	67.3	63.4
Legacy	LS-0638N RR2X	0.6	9/13	4	37	0.3	3,595	56.2	17.0	36.8	60.6	--	--
Legacy	LS-0738N RR2X	0.7	9/13	4	36	0	3,660	55.9	16.9	37.4	60.9	--	--
Legacy	LS-0836N RR2X	0.8	9/14	5	38	0	3,548	56.7	16.6	38.4	56.2	--	--
Legacy	LS-0935N RR2	0.9	9/15	3	38	0	3,301	56.9	17.0	37.0	61.2	66.2	62.9
Legacy	LS-1138N RR2X	1.1	9/17	5	34	0	3,660	57.1	17.3	37.8	60.7	--	--
Legacy	LS-1134N RR2X	1.1	9/18	5	42	0.8	3,811	57.4	17.2	37.9	51.9	57.3	--
Legacy	LS-1136N RR2	1.2	9/18	5	38	0.3	3,767	56.8	16.9	38.1	56.5	--	--
Legacy	LS-1335N RR2	1.3	9/18	5	38	0	3,688	57.0	17.3	37.8	57.8	65.4	--
NDSU	ND17009GT	00.9	9/7	4	33	0	3,040	57.2	17.6	37.5	53.1	--	--
NuTech	6097R2	0.9	9/12	4	31	0	2,937	56.7	18.9	34.8	60.3	61.3	59.0
Peterson	18X06N	0.6	9/12	3	35	0	3,606	56.3	17.0	38.2	58.3	--	--
Peterson	18X07N	0.7	9/13	4	38	0	3,738	56.4	16.9	36.9	55.7	--	--
Peterson	18X08N	0.8	9/13	4	36	0	3,578	56.7	16.6	38.0	63.2	--	--
Prairie	PB-0578R2	0.5	9/12	5	34	0	3,151	57.3	16.8	38.2	60.7	--	--
Prairie	PB-0777R2	0.7	9/14	4	37	0	3,370	57.0	17.0	37.6	64.4	68.6	64.6
Prairie	PB-0987R2	0.9	9/14	4	35	0	3,774	56.7	16.9	37.2	59.5	--	--
Proseed	40-50N	0.5	9/11	5	34	0	3,545	56.3	17.2	37.4	59.5	--	--
Proseed	50-60N	0.6	9/12	4	33	0	3,092	56.6	17.2	37.6	60.8	--	--
Proseed	30-80	0.8	9/13	5	38	0.3	3,506	56.7	17.0	37.8	60.3	64.3	61.3
Proseed	XT609	0.9	9/14	5	34	0	3,762	56.8	16.7	38.5	56.1	--	--
Proseed	XT610	1.0	9/15	5	35	0.3	3,614	56.5	17.0	37.8	58.0	63.6	--
Wensman	W1050NRX	0.5	9/12	4	34	0.5	3,673	56.5	17.2	38.3	58.9	--	--
Wensman	W1060NRX	0.6	9/13	4	34	0	3,658	57.1	17.7	36.7	57.3	--	--
Wensman	W1074NRX	0.7	9/13	4	35	0	3,820	56.1	16.7	37.0	53.1	--	--
Wensman	W1086NRX	0.8	9/14	4	37	0.3	3,644	56.7	16.5	38.8	58.2	--	--
Mean			9/13	4	36	0.1	3,558	56.7	17.0	37.5	59.1	64.4	62.5
CV %			0.9	22	5.5	316	4.3	0.8	1.4	1.1	6.8	--	--
LSD 0.05			1.5	NS	2.8	0.3	215	0.6	0.3	0.6	5.6	--	--
LSD 0.10			1.2	1.1	2.3	0.3	176	0.5	0.3	0.5	4.7	--	--

Planted: May 19. Harvested: Oct. 10. Previous crop: spring wheat.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.<sup>2</sup>Lodging: 0-none, 9-lying flat on the ground.



**Table 18. 2017 Soybean - Irrigated, Liberty Link - Oakes (Carrington REC) - Authors, K. Cooper, L. Besemann and H. Eslinger.**

Company/ Brand	Variety	Mat. Group	Maturity <sup>1</sup> (date)	Plant Lodge <sup>2</sup> (0-9)	Seeds/ Pound (seeds)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2017 2-yr. ---(bu/a)---	
Bayer	CZ0448 LL	0.4	9/17	6	2,190	56.6	18.5	35.3	64.6	--
Bayer	CZ 0525 LL	0.5	9/19	7	2,236	58.1	17.6	36.0	69.4	63.5
Bayer	CZ 0601 LL	0.6	9/19	5	2,152	59.7	17.0	34.4	69.8	61.3
Bayer	CZ 1028 LL	1.0	9/21	4	2,205	58.2	16.6	36.6	75.0	--
Bayer	CZ 1201 LL	1.2	9/22	9	2,048	58.1	17.5	35.7	71.1	63.7
Bayer	CZ 1332 LL	1.3	9/22	5	2,095	58.3	16.5	36.4	77.4	--
NuTech	2086L	0.8	9/20	2	2,431	57.8	17.1	36.6	64.1	56.2
NuTech	3103L	1.0	9/21	7	2,334	57.2	18.0	36.0	66.9	--
NuTech	3115L	1.1	9/21	8	2,035	58.7	17.3	36.1	75.1	68.4
Mean			9/20	6	2192	58.1	17.3	35.9	70.4	62.6
CV %			0.7	29.6	2.5	2.2	0.9	0.8	7.4	--
LSD 0.05			1.2	2.5	80	1.9	0.2	0.4	7.6	--
LSD 0.10			1.0	2.1	66	1.6	0.2	0.3	6.3	--

Planted: May 19. Harvested: Oct. 12. Previous crop: field corn.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

<sup>2</sup>Lodging: 0-none, 9-lying flat on the ground.

**Table 19. 2017 Soybean - Irrigated, Conventional - Oakes (Carrington REC) - Authors, K. Cooper, L. Besemann and H. Eslinger.**

Company/ Brand	Variety	Mat. Group	Maturity <sup>1</sup> (date)	Plant Lodge <sup>2</sup> (0-9)	Seeds/ Pound (seeds)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2017 2-yr. ---(bu/a)---	
NDSU	Ashtabula	0.4	9/17	8	2,580	56.9	18.6	33.2	65.2	--
NDSU	ND Benson	0.4	9/17	5	2,580	57.4	17.0	37.3	61.8	--
NDSU	ND Bison	0.7	9/18	2	2,375	58.0	17.4	34.7	72.5	--
NDSU	ND Stutsman	0.7	9/20	5	2,611	57.4	17.9	33.8	86.7	--
NDSU	Sheyenne	0.7	9/19	4	2,578	57.7	17.7	33.7	78.5	--
Richland	MK0508	0.8	9/20	9	5,055	58.7	16.6	34.4	46.7	44.0
Richland	MK0603	0.6	9/19	9	4,503	57.6	16.3	36.3	55.6	48.4
Richland	MK1016	1.0	9/20	6	4,679	58.4	16.0	36.9	52.0	48.7
Richland	MK41	1.1	9/21	3	2,158	58.5	16.4	37.3	75.0	65.7
Richland	MK42	0.7	9/19	9	2,198	57.8	16.1	37.6	54.1	49.2
Richland	MK808CN	0.8	9/20	8	2,745	58.6	18.3	33.8	60.7	53.8
Richland	MK9101	1.0	9/21	3	1,933	57.8	20.1	35.8	67.0	57.6
Mean			9/19	6	3,000	57.9	17.4	35.4	64.6	52.5
CV %			0.8	28.3	2.5	1.2	1.5	0.9	8.0	--
LSD 0.05			1.3	2.4	108	1.0	0.4	0.5	7.4	--
LSD 0.10			1.1	2.0	90	0.8	0.3	0.4	6.2	--

Planted: May 19. Harvested: Oct. 12. Previous crop: field corn.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

<sup>2</sup>Lodging: 0-none, 9-lying flat on the ground.

**Table 20. 2017 Soybean - Conventional - Dazey (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard.**

Company/ Brand		Mat. Group	Maturity <sup>1</sup>	Plant Lodge <sup>2</sup>	Plant Height	Seeds/ Pound	Test Weight	Seed Oil	Seed Protein	Seed Yield	
Variety			(date)	(0-9)	(inch)	(seeds)	(lb/bu)	(%)	(%)	---(bu/a)---	
NDSU	Ashtabula	0.4	9/10	0	31	3,551	57.3	18.3	35.8	52.3	56.2
NDSU	ND Benson	0.4	9/10	0	31	3,524	58.0	17.3	38.1	56.4	57.6
NDSU	ND Bison	0.7	9/12	0	31	3,511	58.1	17.6	36.4	61.1	64.3
NDSU	ND Henson	0.0	9/9	0	31	3,577	58.4	17.6	36.3	54.2	56.6
NDSU	ND Stutsman	0.7	9/12	0	36	3,964	58.2	17.7	36.0	63.4	66.4
NDSU	Sheyenne	0.7	9/11	0	33	3,774	57.8	17.8	35.8	56.1	59.7
Richland	MK0249	0.2	9/9	0	29	5,615	58.1	16.7	36.6	50.1	53.8
Richland	MK0508	0.5	9/11	0.3	33	6,766	59.0	16.0	38.2	49.0	49.6
Richland	MK0603	0.6	9/13	0.7	37	6,425	58.4	14.1	40.3	44.3	49.1
Richland	MK1016	1.0	9/11	0.3	36	6,765	58.9	15.6	38.9	47.1	50.2
Richland	MK41	1.1	9/13	0	34	3,253	57.9	15.0	41.0	54.7	62.2
Richland	MK42	0.7	9/10	0.3	33	2,818	58.1	16.0	39.9	58.4	60.6
Richland	MK808CN	0.8	9/13	0.3	35	3,901	58.3	17.9	36.4	56.4	59.9
Richland	MK9101	1.0	9/15	0.3	36	3,030	58.1	--	--	48.5	52.5
Mean			9/10	0.1	33	3,823	58.2	16.7	37.7	53.7	57.1
CV %			0.7	315	8.5	5.2	0.8	2	1.3	6.6	--
LSD 0.05			11	NS	3.9	277	0.6	0.5	0.7	5.1	--
LSD 0.10			0.9	NS	3.2	232	0.5	0.4	0.6	4.3	--

Planted: May 19. Harvested: Oct. 10. Previous crop: spring wheat.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.<sup>2</sup>Lodging score: 0-upright, 9-flat on ground.**Table 21. 2017 Soybean - Dryland, Liberty Link - Dazey (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard.**

Company/ /Brand		Mat Group	Maturity <sup>1</sup>	Plant Height	Plant Lodge <sup>2</sup>	Seeds/ Pound	Test Weight	Seed Oil	Seed Protein	Seed Yield	
Variety			(date)	(inch)	(0-9)	(seeds)	(lb/bu)	(%)	(%)	----- (bu/a) -----	
Bayer	CZ 0201 LL	0.2	9/10	33	0	3,054	57.5	18.2	35.4	53.3	57.1
Bayer	CZ 0301 LL	0.3	9/12	34	0	3,066	56.8	18.4	35.4	58.4	64.1
Bayer	CZ 0525 LL	0.5	9/12	32	0.3	3,008	57.2	17.4	38.1	63.7	66.4
Bayer	CZ 0601 LL	0.6	9/13	34	0	2,737	57.7	16.6	35.6	61.6	68.0
Bayer	CZ 1028 LL	1.0	9/16	36	0.3	2,896	58.2	16.7	38.0	67.2	--
Bayer	CZ0448 LL	0.4	9/10	29	0	2,686	56.5	18.5	36.0	57.9	--
NuTech	2086L	0.8	9/15	34	0	3,223	58.2	16.9	38.0	55.4	61.3
NuTech	3066L	0.6	9/13	34	0.3	3,067	57.4	17.5	37.9	57.5	65.1
Mean			9/12	33	0.1	2,969	57.4	17.5	36.8	59.4	63.7
CV %			1.0	6.3	342	4.0	0.8	1.4	1.6	6.4	--
LSD 0.05			1.8	3.0	NS	175	0.6	0.4	0.9	5.4	--
LSD 0.10			1.5	2.5	NS	145	0.5	0.3	0.7	4.5	--

Planted: May 19. Harvested: Oct. 10. Previous crop: spring wheat.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.<sup>2</sup>Lodging: 0-none, 9-lying flat on the ground.

**Table 22. 2017 Soybean - Dryland, Roundup Ready - LaMoure (Carrington REC) - Authors, T. Helms and B. Schatz.**

Company/ Brand	Variety	Maturity		Seed Oil	Seed Protein	Seed Yield		
		Group	Maturity <sup>1</sup> (date)			2017	2-yr. Avg.	3-yr. Avg.
				(%)	(%)	----- (bu/a) -----		
Dairyland	DSR-0807/R2Y	0.8	9/16	19.1	33.7	56.8	69.3	--
Dairyland	DSR-0988/R2Y	0.9	9/19	19.7	33.2	60.5	68.5	--
Dairyland	DSR-1120/R2Y	1.1	9/19	19.7	32.5	55.0	63.7	57.3
Dairyland	DSR-1313/R2Y	1.3	9/20	18.7	34.7	64.9	--	--
Dyna-Gro	S07RY45	0.7	9/15	19.7	33.3	62.9	74.9	65.2
Dyna-Gro	S07XT28	0.7	9/14	17.9	33.4	51.9	--	--
Dyna-Gro	S09RY64	0.9	9/18	17.1	36.9	58.7	70.0	63.4
Dyna-Gro	S11XT78	1.1	9/20	17.9	33.8	61.4	--	--
Integra	20915N	0.7	9/13	18.9	33.9	57.2	69.2	--
Legacy	LS-0836N RR2X	0.8	9/18	18.4	34.7	53.8	--	--
Legacy	LS-0935N RR2	0.9	9/12	19.5	33.8	55.3	66.8	60.3
Legacy	LS-1134N RR2X	1.1	9/18	18.3	35.5	53.7	62.9	57.6
Legacy	LS-1136N RR2	1.2	9/20	20.8	33.6	57.9	--	--
Legacy	LS-1138N RR2X	1.1	9/20	18.0	36.1	61.5	--	--
Legacy	LS-1335N RR2	1.3	9/19	18.2	36.8	56.7	68.3	61.2
Legacy	LS-1338N RR2X	1.3	9/22	20.2	33.6	57.7	--	--
NuTech	7109	1.0	9/21	20.6	32.4	58.0	--	--
NuTech	6097R2	0.9	9/11	18.2	35.9	55.5	69.4	62.3
Peterson	15R07N	0.7	9/16	18.7	34.5	60.8	70.1	62.5
Peterson	17X09N	0.9	9/19	17.9	34.1	55.4	--	--
Peterson	18X08N	0.8	9/15	19.0	34.5	52.1	--	--
Prairie	PB-0777R2	0.7	9/14	19.8	33.7	51.9	65.4	--
Prairie	PB-0987R2	0.9	9/12	20.8	31.3	57.7	70.4	--
Proseed	30-80	0.8	9/16	18.8	34.2	61.8	--	--
Proseed	XT609	0.9	9/19	20.6	32.0	59.6	--	--
Proseed	XT610	1.0	9/17	19.7	33.9	52.8	--	--
Thunder	SB8710N	1.0	9/20	18.7	35.6	54.6	--	--
Thunder	SB8807N	0.7	9/15	20.0	31.3	53.9	--	--
Thunder	SB8811N	1.1	9/21	19.5	34.4	62.1	--	--
Wensman	W1050NRX	0.5	9/11	18.3	35.8	51.0	--	--
Wensman	W1060NRX	0.6	9/13	18.8	34.5	49.4	--	--
Wensman	W1086NRX	0.8	9/18	18.9	33.9	59.4	--	--
Wensman	W1106NRX	1.0	9/16	19.9	33.5	44.9	--	--
Wensman	W1121NRX	1.2	9/21	19.2	36.0	58.6	--	--
Mean			9/16	19.1	34.1	55.8	68.4	61.2
CV %			15.0	--	--	11.0	--	--
LSD 0.05			4.0	--	--	10.0	--	--
LSD 0.10			3.4	--	--	8.4	--	--

Planted: May 7. Previous crop: spring wheat.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 23. 2017 Soybean - Dryland, Conventional and Liberty Link - LaMoure (Carrington REC) - Authors, T. Helms and B. Schatz.**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup>	Seed Oil	Seed Protein	Seed Yield	
						2017	3-yr. Avg.
<b>Conventional</b>			(date)	(%)	(%)	----- (bu/a) -----	
NDSU	ND Benson	0.4	9/12	18.7	34.8	44.6	--
NDSU	ND Bison	0.7	9/16	19.5	32.2	52.2	53.8
NDSU	ND Henson	0.0	9/7	20.5	31.7	42.3	--
NDSU	ND Stutsman	0.7	9/17	19.3	31.7	61.0	--
NDSU	Sheyenne	0.7	9/16	19.1	32.9	55.5	56.4
Richland	MK0508	0.5	9/15	17.3	31.9	38.6	45.2
Richland	MK0603	0.6	9/18	17.0	33.4	47.4	50.7
Richland	MK1016	1.0	9/18	17.2	34.1	45.2	44.3
Richland	MK41	1.1	9/22	16.7	36.2	55.1	55.1
Richland	MK42	0.7	9/16	16.9	36.9	49.1	50.4
Richland	MK808CN	0.8	9/21	18.9	33.0	52.4	--
Richland	MK9101	1.0	9/20	16.1	36.8	47.4	48.4
<b>Liberty Link</b>							
Bayer	CZ 0525 LL	0.5	9/17	18.9	35.0	57.8	60.9
Bayer	CZ 0601 LL	0.6	9/18	18.1	32.5	61.7	--
Bayer	CZ 1028 LL	1.0	9/23	17.8	34.3	59.7	--
Bayer	CZ 1201 LL	1.2	9/26	17.7	35.5	61.8	--
Bayer	CZ 1332 LL	1.3	9/22	17.7	35.3	58.8	61.8
Mean			9/17	18.2	33.9	51.5	52.7
CV %			14.9	--	--	8.3	--
LSD 0.05			4.2	--	--	7.1	--
LSD 0.10			3.5	--	--	5.9	--

Planted: May 7. Previous crop: spring wheat.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.**Table 24. 2017 Soybean - Dryland, Organic - Carrington - Authors, S. Zwinger and S. Schaubert.**

Company/ Brand	Variety	Mat. Group	Maturity <sup>1</sup> (date)	Plant Height (inch)	Seed Oil %	Seed Protein %	Test Weight (lb/bu)	Seed Yield 2017 2-yr. ----- (bu/a) -----	
NDSU	Ashtabula	0.4	9/10	26	19.6	34.7	56.1	31.9	33.6
NDSU	ND Benson	0.4	9/12	24	18.5	37.6	57.4	32.6	37.4
NDSU	ND Bison	0.7	9/13	26	18.4	35.4	57.9	39.1	39.3
NDSU	ND Henson	0.0	9/9	25	19.6	34.5	57.2	32.1	33.2
NDSU	ND Stutsman	0.7	9/12	25	18.9	34.9	57.3	37.1	39.1
NDSU	ND1406HP	0.8	9/10	27	17.4	38.5	57.2	34.0	33.3
NDSU	Prosoy	0.8	9/15	30	17.8	38.6	57.4	40.2	41.3
NDSU	Sheyenne	0.7	9/12	26	18.7	35.3	56.8	33.2	34.0
NDSU	Traill	0.0	9/4	27	18.8	36.2	57.4	30.3	26.1
Mean			9/9	26	18.6	36.2	57.2	34.5	35.3
CV %			1.3	10	0.8	1.0	0.5	15.4	--
LSD 0.05			2.1	3.7	0.2	0.5	0.4	7.4	--
LSD 0.10			1.7	3.1	0.1	0.4	0.3	6.2	--

Planted: May 19. Harvested: Oct. 12. Previous crop: oats.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 25. 2017 Soybean - Dryland, Roundup Ready - Wishek (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard.**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Pod Ht (inch)	Plant Ht (inch)	Plant Lodge <sup>2</sup> (0-9)	Seeds/ Pound (seeds)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
											2017	3-yr. Avg.
											----- (bu/a) -----	
Channel	0916R2X	0.9	9/17	6	39	0.3	2,970	57.7	16.5	38.8	53.7	--
Channel	1017R2X	1.0	9/14	6	35	0	3,249	57.6	16.4	38.5	54.2	--
Channel	1117R2X	1.1	9/17	6	37	0.3	3,203	58.1	16.8	38.8	57.1	--
Channel	1318R2X	1.3	9/12	5	34	0	3,826	57.2	16.5	38.2	59.9	--
Integra	20775N	0.4	9/14	5	37	0.3	3,261	57.2	16.7	38.2	55.8	48.5
Integra	50629N R2X	0.6	9/14	5	38	0.5	3,997	57.7	16.4	37.9	55.6	--
Integra	20617N	0.7	9/11	5	35	0	3,290	56.7	16.8	38.8	59.6	--
Legacy	LS-0935N RR2	0.9	9/17	6	40	0.5	3,776	57.8	16.7	37.3	60.4	54.6
Legacy	LS-1138N RR2X	1.1	9/19	5	37	0.5	3,785	57.8	16.8	38.4	57.7	--
Legacy	LS-1134N RR2X	1.1	9/16	6	38	0.8	3,722	58.0	16.6	39.2	51.3	49.2
Legacy	LS-1136N RR2	1.2	9/18	4	36	0.3	3,653	58.1	16.0	39.5	47.6	--
Legacy	LS-1335N RR2	1.3	9/18	7	39	0.5	3,442	57.8	17.1	38.2	57.7	--
Legacy	LS-1338N RR2X	1.3	9/20	5	37	0.5	3,622	58.2	16.3	38.6	51.9	--
NuTech	6097R2	0.9	9/9	4	32	0	3,972	56.6	18.9	34.9	57.7	50.1
NuTech	7109	1.0	9/15	6	37	0.5	3,704	58.0	16.4	39.0	56.5	--
Peterson	18X08N	0.8	9/15	5	39	0.3	3,821	57.7	16.4	38.8	60.1	--
Peterson	17X09N	0.9	9/17	5	36	0.3	3,687	57.9	16.3	39.1	50.5	--
Proseed	XT609	0.9	9/17	6	38	0.5	3,368	57.9	16.2	39.2	52.5	--
Proseed	XT610	1.0	9/17	6	36	0	3,759	57.9	16.1	39.3	51.5	--
Proseed	XT612	1.2	9/20	5	37	0.3	3,865	57.5	16.6	38.1	49.8	--
REA	RX0628	0.6	9/11	5	37	0.5	3,874	56.2	17.3	37.0	52.6	--
REA	RX0826	0.8	9/16	5	37	0.5	3,473	57.6	16.1	39.7	57.2	--
REA	RX1027	1.0	9/16	6	35	0	3,561	57.8	16.3	38.5	56.7	--
Thunder	SB8807N	0.7	9/12	4	35	0	3,466	57.8	16.4	38.0	50.6	--
Thunder	SB8710N	1.0	9/16	4	33	0	3,421	58.1	16.4	39.1	50.0	--
Thunder	SB8811N	1.1	9/18	4	35	0	3,244	58.3	16.5	39.4	58.5	--
Wensman	W1060NRX	0.6	9/14	4	34	0	3,681	57.5	17.3	37.5	56.5	--
Wensman	W1074NRX	0.7	9/12	5	39	0.3	3,945	57.7	16.3	37.9	58.2	--
Wensman	W1086NRX	0.8	9/16	6	37	0	3,371	57.8	16.0	39.7	55.1	--
Wensman	W1121NRX	1.2	9/19	5	36	0.3	3,729	58.3	16.4	39.8	57.0	--
Wensman	W1129NRX	1.2	9/16	4	34	0	3,512	58.2	16.4	39.4	51.1	--
Wensman	W1140NRX	1.4	9/17	6	37	0	3,399	58.7	16.0	39.5	50.1	--
Mean			9/16	5	36	0.2	3,583	57.7	16.5	38.6	54.8	50.6
CV %			1.7	19.6	7.4	169	7.2	0.8	2.5	2.2	9.9	--
LSD 0.05			2.8	1.4	3.8	NS	362	0.7	0.6	1.2	7.6	--
LSD 0.10			2.4	1.2	3.2	NS	303	0.6	0.5	1	6.4	--

Planted: May 18. Harvested: Oct. 12. Previous crop: spring wheat.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.

**Table 26. 2017 Soybean - Dryland, Conventional - Wishek (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard.**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Pod Ht (inch)	Plant Ht (inch)	Plant Lodge <sup>2</sup> (0-9)	Seeds/ Pound (seeds)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield (bu/a)
NDSU	Ashtabula	0.4	9/10	3	27	0	3,331	56.0	18.6	35.7	40.8
NDSU	ND Benson	0.4	9/12	4	31	0	3,949	58.6	17.3	38.7	40.7
NDSU	ND Bison	0.7	9/11	4	31	0	3,493	58.7	17.2	36.9	44.2
NDSU	ND Henson	0.0	9/8	3	26	0	3,747	57.4	17.9	36.5	40.6
NDSU	ND Stutsman	0.7	9/12	3	31	0	3,713	57.7	17.8	35.9	47.7
NDSU	Sheyenne	0.7	9/12	3	30	0	3,514	57.5	17.6	36.2	46.0
Richland	MK0508	0.5	9/14	4	31	1.0	6,231	59.4	16.2	38.2	35.1
Richland	MK0603	0.6	9/14	4	30	0.3	5,621	58.5	15.4	38.8	33.9
Richland	MK1016	1.0	9/12	3	35	0.8	6,265	59.2	16.1	38.9	36.4
Richland	MK41	1.1	9/19	4	32	0.3	3,192	59.6	15.6	40.0	43.5
Richland	MK42	0.7	9/12	4	35	0.8	3,055	58.4	15.5	41.0	45.4
Richland	MK808CN	0.8	9/15	4	35	1.0	3,701	58.9	18.2	36.4	49.1
Richland	MK9101	1.0	9/20	4	37	1.0	2,794	58.9	--	--	40.1
Mean			9/13	4	32	0.4	4,056	58.3	17.0	37.8	41.6
CV %			1.2	18.5	8.1	123	5.1	0.7	2.0	1.6	11.3
LSD 0.05			2.0	1.0	3.6	0.7	296	0.6	0.5	0.9	6.7
LSD 0.10			1.6	0.8	3	0.5	246	0.5	0.4	0.7	5.6

Planted: May 18. Harvested: Oct. 12. Previous crop: spring wheat.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.

**Table 27. 2017 Soybean - Dryland, Liberty Link - Wishek (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Pod Ht (inch)	Plant Ht (inch)	Seeds/ Pound (seeds)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2017 2-yr. ----- (bu/a) -----	
Bayer	CZ 0601 LL	0.6	9/13	4	26	3,425	58.9	16.3	37.0	34.3	--
Bayer	CZ 1028 LL	1.0	9/17	4	30	3,442	59.5	16.6	37.5	38.0	--
Bayer	CZ 1201 LL	1.2	9/17	5	29	3,613	59.7	15.6	39.7	31.0	--
NuTech	2086L	0.8	9/16	3	27	3,886	59.1	16.7	38.5	33.7	47.9
NuTech	3103L	1.0	9/14	3	27	4,069	58.5	16.8	38.8	30.0	--
NuTech	3115L	1.1	9/18	4	29	3,647	59.6	15.7	39.1	27.2	46.7
Mean			9/16	4	28	3,680	59.2	16.3	38.4	32.3	47.3
CV %			1	23	6.8	7.5	0.8	1.6	1.0	7.8	--
LSD 0.05			1.8	NS	NS	416	0.7	0.4	0.6	4.6	--
LSD 0.10			1.4	NS	2.3	342	0.6	0.3	0.5	3.7	--

Planted: May 18. Harvested: Oct. 12. Previous crop: spring wheat.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.



**Table 28. 2017 Soybean - Irrigated, Roundup Ready - Oakes (Carrington REC) - Authors, K. Cooper, L. Besemann and H. Eslinger.**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Plant Lodge <sup>2</sup> (0-9)	Seeds/ Pound (seeds)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield		
									2-yr. 2017 Avg.	3-yr. Avg.	----(bu/a)----
Dairyland	DSR-0807/R2Y	0.8	9/21	6	2,286	57.5	16.8	36.4	72.6	63.1	--
Dairyland	DSR-0988/R2Y	0.9	9/22	5	2,528	57.4	17.1	34.8	75.9	62.5	--
Dairyland	DSR-1120/R2Y	1.1	9/26	9	2,146	56.7	18.0	34.7	67.5	58.0	64.1
Dairyland	DSR-1313/R2Y	1.3	9/22	7	2,370	57.3	17.8	35.3	70.1	64.9	--
Dairyland	DSR-1475/R2Y	1.4	9/26	7	2,472	57.8	17.1	35.9	69.9	--	--
Dyna-Gro	S09RY64	0.9	9/21	5	2,574	57.2	17.5	34.7	73.5	71.3	74.4
Dyna-Gro	S11XT78	1.1	9/21	5	2,366	57.2	17.6	35.8	64.6	--	--
Dyna-Gro	S12RY44	1.2	9/21	5	2,361	57.4	16.9	36.9	70.4	68.5	71.9
Dyna-Gro	S12XT07	1.2	9/22	8	2,421	57.3	17.6	35.2	72.7	--	--
Integra	20915N	0.9	9/21	7	2,531	57.6	17.4	34.8	66.8	62.0	68.8
Legacy	LS-0935N RR2	0.9	9/21	5	2,321	57.9	17.2	35.2	73.6	64.8	69.6
Legacy	LS-1134N RR2X	1.1	9/22	7	2,360	58.4	17.9	35.2	69.8	60.7	65.5
Legacy	LS-1136N RR2	1.2	9/22	6	2,496	57.3	17.2	35.6	67.4	--	--
Legacy	LS-1138N RR2	1.1	9/21	4	2,431	57.7	17.5	35.9	72.6	--	--
Legacy	LS-1335N RR2X	1.3	9/23	6	2,328	57.6	17.5	35.4	73.3	64.6	71.2
Legacy	LS-1338N RR2X	1.3	9/23	5	2,507	57.5	17.3	35.3	75.4	--	--
NuTech	6097R2	0.9	9/20	5	2,183	57.4	19.1	32.3	76.5	64.4	67.8
NuTech	7109	1.0	9/22	4	2,138	57.3	17.5	35.5	70.1	--	--
Peterson	17X09N	0.9	9/21	7	2,514	56.8	17.2	35.7	67.3	--	--
Peterson	18X11N	1.1	9/20	4	2,407	57.1	17.7	35.5	71.5	--	--
Peterson	18X13N	1.3	9/21	4	2,380	57.3	18.0	35.2	72.0	--	--
Prairie	PB-0777R2	0.7	9/20	5	2,468	57.6	17.3	35.6	72.5	62.8	68.1
Prairie	PB-0987R2	0.9	9/21	7	2,506	57.3	17.2	34.9	70.2	61.5	--
Prairie	PB-1257R2	1.2	9/24	8	2,619	56.9	17.5	34.1	71.8	64.6	--
Proseed	XT609	0.9	9/21	6	2,516	57.7	17.2	36.1	63.3	--	--
Proseed	XT610	1.0	9/21	5	2,510	57.3	17.2	36.0	68.0	61.2	--
Proseed	XT612	1.2	9/22	7	2,520	57.0	17.2	35.6	68.6	--	--
REA	RX1027	1.0	9/21	3	2,312	57.3	17.0	36.1	73.6	--	--
REA	RX1327	1.3	9/23	5	2,415	57.9	17.2	35.4	61.7	--	--
REA	RX1428	1.4	9/21	6	2,395	57.1	16.6	36.0	63.0	--	--
Thunder	SB8710N	1.0	9/21	7	2,469	57.4	17.1	36.2	68.2	58.7	--
Thunder	SB8811N	1.1	9/23	5	2,341	58.3	17.6	35.9	66.9	--	--
Wensman	W1086NRX	0.8	9/20	4	2,652	56.9	16.9	36.4	68.4	--	--
Wensman	W1106NRX	1.0	9/21	3	2,549	57.4	17.1	36.1	71.4	62.7	--
Wensman	W1121NRX	1.2	9/21	5	2,433	57.3	17.4	35.7	68.3	--	--
Wensman	W1129NRX	1.2	9/23	5	2,390	57.5	17.7	35.1	73.7	65.9	--
Wensman	W1140NRX	1.4	9/22	4	2,535	57.6	17.3	35.3	76.0	--	--
Mean			9/22	6	2,426	57.4	17.4	35.4	70.2	63.5	69.0
CV %			1.2	31	3	1.0	1.1	1.1	7.7	--	--
LSD 0.05			2.1	2.4	93	0.8	0.3	0.3	7.6	--	--
LSD 0.10			1.8	2.0	78	0.7	0.2	0.3	6.3	--	--

Planted: May 19. Harvested: Oct. 13. Previous crop: field corn.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.

**Table 29. 2017 Soybean - Roundup Ready - Langdon - Authors, B. Hanson, T. Hakanson and L. Henry (Page 1 of 2).**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Plant Lodge <sup>2</sup> (0-9)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
								2017	2-yr. Avg.
								----(bu/a)----	
Allegiant	005X17	00.5	9/10	0	37	15.1	31.7	50.5	--
Allegiant	008X30N	00.8	9/14	0	37	15.5	33.0	37.6	--
Allegiant	009X08	00.9	9/24	1	39	14.5	33.4	51.1	--
Allegiant	01R80	0.1	9/11	0	40	15.5	33.9	55.8	--
Channel	00717R2X	00.7	9/11	0	36	14.5	33.3	57.5	--
Channel	0218R2X	0.2	9/15	1	42	14.9	33.6	55.5	--
Croplan	R200516	00.5	9/10	0	36	15.1	33.8	57.1	59.6
Croplan	RX00926	00.9	9/12	0	41	14.0	33.3	58.5	--
Dahlman	56009NRR2Y	00.9	9/14	0	35	14.3	34.4	51.9	--
Dahlman	5601RR2Y	0.1	9/11	1	40	15.3	33.9	59.9	--
Dahlman	67009X	00.9	9/12	1	38	13.8	34.4	52.5	--
Dahlman	68008XN	00.8	9/12	1	39	15.2	33.1	53.6	--
Dyna-Gro	S005RY87	00.5	9/10	0	38	15.1	34.4	54.0	59.9
Dyna-Gro	S006RY97	00.6	9/11	0	34	14.9	33.6	55.2	--
Dyna-Gro	S007XT27	00.7	9/11	0	37	14.4	33.0	64.0	66.3
Dyna-Gro	S009XT68	00.9	9/12	1	40	13.7	34.3	58.6	--
Dyna-Gro	S005XT38	00.5	9/10	1	36	14.8	32.5	56.3	--
Hefty	H005X8	00.5	9/12	0	35	14.8	32.9	37.0	--
Hefty	H007X7	00.7	9/11	0	35	14.9	33.3	53.8	57.3
Hefty	H008R6	00.8	9/14	0	35	14.2	34.8	52.6	55.3
Hefty	H009X7	00.9	9/13	1	41	13.9	34.4	50.5	--
Hefty	H00R6	0.0	9/11	1	40	15.7	33.8	55.7	59.8
Integra	20062	00.6	9/10	0	38	15.3	33.7	56.6	--
Integra	20087	00.8	9/13	0	32	14.1	35.0	61.8	67.3
Integra	20097	00.9	9/12	2	40	15.4	33.7	64.3	69.2
Integra	50069	00.6	9/10	1	37	14.6	33.8	56.6	--
Integra	50098	00.9	9/12	1	40	13.5	34.6	59.9	63.4
Legacy	LS-00738N RR2X	00.7	9/10	0	35	14.2	34.3	61.1	--
Legacy	LS-00937 RR2X	00.9	9/14	1	41	14.0	33.9	59.6	65.3
Legacy	LS-0135 RR2	00.9	9/12	2	41	15.2	34.3	65.0	68.1
Legacy	LS-0214 RR2	0.2	9/15	1	39	13.9	36.2	56.5	64.3
Legacy	LS-0237N RR2X	0.2	9/15	2	41	14.4	34.1	58.3	65.2
Legacy	LS-00538 RR2X	00.5	9/9	1	37	14.4	33.4	55.7	--
Legend	LS 005X853	00.5	9/10	0	36	14.7	32.6	56.8	--
Legend	LS 007X756N	00.7	9/11	0	37	14.4	34.6	57.9	--
Legend	LS 009X852N	00.9	9/12	1	38	15.3	32.3	62.7	--
Mustang	00726	00.7	9/14	0	37	13.9	35.6	57.1	--
Mustang	02311	0.2	9/17	0	33	13.8	35.9	55.8	--
Mustang	02356	0.2	9/12	0	41	15.1	33.9	61.4	--
Mustang	00X698	00.6	9/10	0	37	15.0	32.7	56.2	--
Mustang	00X828	00.8	9/16	1	38	15.2	33.0	51.4	--
NDSU	ND17009GT	00.9	9/11	2	38	14.7	36.5	52.6	--
NorthStar	NS 60053XR2	00.5	9/9	1	37	14.6	32.7	57.2	--
NorthStar	NS0052R2	00.5	9/10	0	37	15.0	34.1	59.9	61.5
NorthStar	NS0072R2	00.7	9/17	0	35	14.3	35.1	53.5	60.3
NorthStar	NS60092XR2	00.9	9/12	0	40	13.8	34.6	59.6	--
NuTech	6502	00.5	9/9	0	30	14.7	34.3	56.0	--
NuTech	6008R2	00.8	9/14	1	40	15.3	32.1	58.2	57.0
Peterson	16R008N	00.8	9/15	0	35	14.4	34.7	53.5	56.5
Peterson	16R01	0.1	9/11	2	38	15.2	34.6	56.3	63.1
Peterson	17X009	00.9	9/13	1	41	14.1	34.2	53.2	61.8
Mean			9/12	1	37	14.6	34.0	55.7	61.8
CV %			13.2	141	5.6	2.0	2.1	5.8	--
LSD 0.05			2.3	1	3.0	0.6	1.4	4.5	--
LSD 0.10			1.9	1	2	0.5	1.2	3.8	--

**Table 29. 2017 Soybean - Roundup Ready - Langdon - Authors, B. Hanson, T. Hakanson and L. Henry (Page 2 of 2).**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Plant Lodge <sup>2</sup> (0-9)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
								2017	2-yr. Avg.
								----(bu/a)----	
Peterson	18X008N	00.8	9/11	1	38	14.9	33.6	59.2	--
Pioneer	P005A27X	00.5	9/8	0	30	13.9	35.0	53.7	--
Pioneer	P007A90R	00.7	9/8	0	36	14.7	34.0	59.3	--
Pioneer	P008T22R2	00.8	9/13	1	40	14.8	34.8	57.1	61.1
Prairie	PB-00856R2	00.9	9/16	1	36	14.4	35.2	46.8	53.7
Prairie	PB-00928R2	00.9	9/16	0	34	15.4	33.3	55.9	--
Prairie	PB-0146R2	0.1	9/13	1	40	15.6	33.6	56.5	63.3
Proseed	30-07	00.7	9/11	0	34	13.7	35.0	52.4	--
Proseed	40-07	00.7	9/9	0	40	13.5	33.5	54.4	58.1
Proseed	50-08N	00.8	9/18	0	36	14.2	34.9	60.8	61.7
Proseed	70-08 XN	00.8	9/16	1	38	15.1	33.3	50.7	--
Proseed	XT 60-09	00.9	9/12	1	41	13.6	34.9	56.5	63.3
REA	R00727	00.7	9/11	0	37	14.7	33.3	62.2	62.6
REA	RX00738	00.7	9/14	1	39	13.9	33.7	53.2	--
REA	RX0228	0.2	9/17	1	43	14.9	34.4	54.6	--
Syng GH	GH00866	00.8	9/12	0	37	15.7	32.7	60.7	--
Syng NK	S009-J1	00.9	9/11	0	31	15.2	34.5	61.5	--
Thunder	34006 R2Y	00.6	9/11	0	32	14.7	34.0	57.8	64.6
Thunder	SB88005	00.5	9/5	0	31	14.7	35.3	43.8	--
Thunder	37004 R2Y	00.4	9/11	0	37	14.8	34.6	55.6	--
Thunder	Astro	00.8	9/14	0	40	13.9	35.1	54.3	--
Thunder	SB87009	00.9	9/16	0	42	13.9	34.2	53.5	--
Thunder	SB88007N	00.7	9/12	1	41	14.8	33.8	56.9	--
Wensman	W10042RX	00.4	9/11	0	37	15.1	32.3	54.8	--
Wensman	W10063NRX	00.6	9/11	0	37	14.7	32.2	58.8	63.0
Wensman	W1011RX	0.1	9/18	2	41	15.1	34.2	55.6	--
Wensman	W30085R2	00.8	9/17	1	38	14.7	34.4	57.6	59.6
Wensman	W3024R2	0.2	9/17	0	34	14.1	34.8	57.8	63.1
Mean			9/12	1	37	14.6	34.0	55.7	61.8
CV %			13.2	141	5.6	2.0	2.1	5.8	--
LSD 0.05			2.3	1	3.0	0.6	1.4	4.5	--
LSD 0.10			1.9	1	2	0.5	1.2	3.8	--

Planted: May 17. Harvested: Oct. 10.

<sup>1</sup>Date of physiological maturity at R7 stage (one pod on the main stem is mature brown or tan color).<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.**Table 30. 2017 Soybean - Conventional and Libery Link - Langdon - Authors, B. Hanson, T. Hakanson and L. Henry.**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Plant Lodge <sup>2</sup> (0-9)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield ----- (bu/a) -----	
<b><u>Conventional</u></b>									
NDSU	ND Henson	0.0	9/15	1	34	14.7	35.9	52.3	52.9
Richland	MK0249	0.2	9/24	6	35	13.8	34.9	45.2	41.7
<b><u>Libery Link</u></b>									
Integra	30008LL	00.8	9/14	0	35	13.9	35.3	64.5	--
NuTech	3022L	0.2	9/21	0	33	14.5	34.5	54.3	--
Thunder	5401 LL	0.1	9/18	3	40	14.8	33.7	66.5	64.6
Mean			9/18	2	35	14.3	34.9	56.6	53.1
CV %			7.9	66	5.5	2.6	1.7	7.4	--
LSD 0.05			2.0	1	2.8	0.8	1.2	5.5	--
LSD 0.10			1.6	1	2.3	0.6	1.0	4.6	--

Planted: May 17. Harvested: Oct. 10.

<sup>1</sup>Date of physiological maturity at R7 stage (one pod on the main stem is mature brown or tan color).<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.

**Table 31. 2017 Soybean - Roundup Ready - Park River (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry (1 of 2).**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Plant Height (inch)	Plant Lodge <sup>2</sup> (0-9)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2017 2-yr. Avg. <sup>3</sup> ------(bu/a)-----	
Allegiant	005X17	00.5	9/5	32	0	16.1	31.3	41.0	--
Allegiant	008X30N	00.8	9/12	31	1	16.8	30.9	40.9	--
Allegiant	009X08	00.9	9/26	37	1	16.0	30.8	56.8	--
Allegiant	01R80	0.1	9/14	35	1	17.2	31.1	47.4	--
Allegiant	02X03	0.2	9/14	40	1	16.1	31.5	48.7	--
Allegiant	04X08N	0.4	9/22	36	2	16.0	31.8	56.9	--
Channel	00717R2X	00.7	9/9	31	0	15.8	31.7	52.9	--
Channel	0218R2X	0.2	9/14	42	1	16.2	32.2	57.4	--
Dairyland	DSR-C918/2Y	00.9	9/12	31	1	15.6	32.6	53.8	63.3
Dairyland	DST00-003/R2Y	0.0	9/15	35	1	16.3	32.2	66.9	--
Dairyland	DST-0225/R2Y	0.2	9/13	35	1	17.0	31.5	56.9	66.0
Dairyland	DSR-0305/R2Y	0.3	9/19	34	2	16.0	32.1	52.9	64.8
Dairyland	DSR-0404/R2Y	0.4	9/19	35	0	15.6	32.5	58.8	66.8
Dairyland	DSR-0418/R2Y	0.4	9/21	35	1	15.5	33.8	57.0	--
Dyna-Gro	S01RY86	0.1	9/13	34	2	16.9	31.0	53.1	60.3
Dyna-Gro	S03RY36	0.3	9/17	34	2	15.6	33.6	61.5	64.6
Dyna-Gro	S04XT77	0.4	9/18	36	1	15.8	32.7	62.5	66.5
Hefty	H02R3	0.2	9/19	37	1	15.7	33.1	56.3	65.3
Hefty	H02X7	0.2	9/15	39	1	16.1	31.6	49.3	60.2
Hefty	H03X7	0.3	9/18	34	1	15.4	33.5	57.3	61.9
Hefty	H03X8	0.3	9/21	35	1	15.4	31.1	48.5	--
Integra	20087	00.8	9/12	31	0	15.1	33.1	58.7	65.2
Integra	20097	00.9	9/11	36	1	17.1	30.4	53.2	62.9
Integra	20468	0.4	9/17	39	3	15.8	32.6	60.7	--
Integra	50098	00.9	9/12	35	0	15.7	31.4	55.2	60.8
Legacy	LS-0135 RR2	00.9	9/12	35	1	17.1	31.2	55.9	65.3
Legacy	LS-0214 RR2	0.2	9/16	39	0	15.8	32.9	57.7	64.6
Legacy	LS-0237N RR2X	0.2	9/15	40	2	15.5	32.0	55.4	64.2
Legacy	LS-0334 RR2	0.3	9/20	39	2	16.0	32.3	61.2	69.0
Legacy	LS 0337N RR2X	0.3	9/18	33	1	16.0	32.9	61.1	66.4
Legacy	LS-0438N RR2X	0.4	9/22	37	3	15.8	32.8	61.5	--
Mustang	00X698	00.6	9/6	34	0	15.7	30.8	51.3	--
Mustang	00X828	00.8	9/12	35	1	16.4	31.3	51.0	--
Mustang	00726	00.7	9/14	37	1	15.7	32.6	55.0	--
Mustang	02356	0.2	9/12	36	2	16.5	31.6	57.4	--
Mustang	02311	0.2	9/16	35	0	15.1	33.6	57.9	--
NDSU	ND17009GT	00.9	9/11	35	1	16.2	34.0	47.8	--
NorthStar	NS0072R2	00.7	9/14	36	0	15.7	33.0	46.7	56.7
NorthStar	NS 0081NR2	00.8	9/13	36	0	15.7	32.6	55.8	63.0
NorthStar	NS 0111R2	0.1	9/13	36	2	16.7	31.9	53.8	63.7
NorthStar	NS 60092XR2	00.9	9/11	32	1	15.5	31.5	55.3	--
NuTech	6502	00.5	9/10	29	0	16.6	31.6	46.6	--
NuTech	6008R2	00.8	9/10	34	0	16.4	29.3	52.0	--
Peterson	18X008N	00.8	9/11	33	0	16.5	31.5	52.1	--
Peterson	17X009	00.9	9/13	34	1	15.3	31.9	52.5	--
Peterson	16R01	0.1	9/11	35	1	17.1	30.7	49.6	61.2
Prairie	PB-00928R2	00.9	9/16	36	2	16.0	31.8	59.2	--
Mean			9/14	35	1	16.0	32.0	54.5	63.2
CV %			8.7	7.4	106	2.1	1.6	8.0	--
LSD 0.05			1.7	3.6	1.5	0.7	1.0	6.1	--
LSD 0.10			1.4	3.0	1.2	0.6	0.8	5.1	--

**Table 31. 2017 Soybean - Roundup Ready - Park River (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry (2 of 2).**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Plant Height (inch)	Plant Lodge <sup>2</sup> (0-9)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2017 2-yr. Avg. <sup>3</sup> ----- (bu/a) -----	
Prairie	PB-0146R2	0.1	9/13	34	1	17.3	30.6	50.6	60.7
Prairie	PB-0397R2	0.3	9/18	38	2	15.5	32.6	57.0	64.8
Proseed	50-08N	00.8	9/13	37	1	15.7	32.5	57.4	--
Proseed	XT 60-09	00.9	9/11	35	0	14.9	32.2	53.7	60.4
Proseed	70-08 XN	00.8	9/11	34	1	16.4	31.0	50.9	--
Proseed	30-20	0.2	9/16	37	1	15.7	32.8	53.7	63.7
Proseed	50-10	0.1	9/11	33	1	16.6	31.8	54.3	--
REA	RX0228	0.2	9/14	35	0	16.1	32.2	55.3	--
REA	RX0327	0.3	9/16	37	0	15.8	33.4	60.8	--
Syng GH	GH0391	0.3	9/17	34	1	15.8	32.0	54.9	--
Syng NK	S03-S6X	0.3	9/13	32	0	15.5	31.9	50.1	--
Thunder	SB88007N	00.7	9/10	35	1	16.3	31.6	54.1	--
Thunder	36008 R2Y	00.8	9/14	35	1	15.7	32.3	53.5	57.2
Thunder	SB87009	00.9	9/15	39	1	15.3	31.8	54.8	--
Thunder	3503 R2Y	0.3	9/19	37	2	15.5	33.5	54.7	--
Thunder	SB8703	0.4	9/16	41	2	16.1	31.4	55.6	--
Thunder	3601 R2Y	0.1	9/15	39	4	17.0	31.6	54.8	64.2
Wensman	W10063NRX	00.6	9/10	31	1	15.9	31.4	53.8	--
Wensman	W1011RX	0.1	9/16	37	2	15.6	33.3	57.5	--
Wensman	W1039NRX	0.3	9/19	36	2	15.1	31.9	55.9	--
Wensman	W30099R2	00.9	9/12	35	1	15.9	32.4	54.0	60.1
Mean			9/14	35	1	16.0	32.0	54.5	63.2
CV %			8.7	7.4	106	2.1	1.6	8.0	--
LSD 0.05			1.7	3.6	1.5	0.7	1.0	6.1	--
LSD 0.10			1.4	3.0	1.2	0.6	0.8	5.1	--

Planted: May 24 . Harvested: Oct. 9.

<sup>1</sup>Date of physiological maturity at R7 stage (one brown pod on the main stem is mature brown or tan color).<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.**Table 32. 2017 Soybean - Conventional and Liberty Link - Park River (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry.**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup>	Plant Lodge <sup>2</sup>	Plant Height	Seed Oil	Seed Protein	Seed Yield	
			(date)	(0-9)	(inch)	(%)	(%)	2017	2-yr. Avg.
<b>Conventional</b>								----(bu/a)----	
NDSU	ND Henson	0.0	9/15	0.3	30	16.9	31.2	52.0	58.3
Richland	MK0249	0.2	9/20	0.8	29	15.9	30.7	45.6	53.9
<b>Liberty Link</b>									
Integra	30208NLL	0.2	9/12	0	34	15.8	32.4	59.3	--
NuTech	3022L	0.2	9/14	0	32	15.9	32.8	54.5	--
Stine	01LH22	0.1	9/12	0	30	15.9	32.3	51.1	56.6
Stine	02LC26	0.2	9/15	0	29	16.7	30.8	63.1	64.2
Stine	03LH26	0.3	9/20	1.8	34	16.5	32.0	52.0	--
Thunder	5401LL	0.1	9/13	0	29	16.0	32.4	59.3	64.4
Thunder	5803 LL	0.3	9/21	2.8	34	16.4	31.8	56.3	--
Mean			9/15	0.6	31	16.2	31.8	54.8	59.5
CV %			8.3	169	8.5	1.6	1.3	7.7	--
LSD 0.05			1.8	1.2	3.8	0.5	0.9	5.8	--
LSD 0.10			1.5	1.0	3.2	0.4	0.7	4.8	--

Planted: May 24. Harvested: Oct. 9.

<sup>1</sup>Date of physiological maturity at R7 stage (one pod on the main stem is mature brown or tan color).<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.

**Table 33. 2017 Soybean - Roundup Ready - Cavalier (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry (1 of 2).**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2017      2-yr. Avg. ------(bu/a)-----	
Allegiant	005X17	00.5	9/4	15.5	32.1	44.8	--
Allegiant	008X30N	00.8	9/11	16.0	31.9	40.4	--
Allegiant	009X08	00.9	9/14	15.3	33.3	50.3	--
Allegiant	01R80	0.1	9/10	16.4	32.9	44.7	--
Dahlman	68008XN	00.8	9/10	15.2	32.5	41.4	--
Dahlman	67009X	00.9	9/9	15.6	33.3	44.8	--
Dahlman	56009NRR2Y	00.9	9/12	15.4	33.3	50.6	--
Dahlman	5601RR2Y	0.1	9/7	16.8	32.6	43.2	--
Dyna-Gro	S005RY87	00.5	9/5	15.9	33.3	47.5	57.7
Dyna-Gro	S005XT38	00.5	9/6	15.7	31.8	52.9	--
Dyna-Gro	S006RY97	00.6	9/8	15.6	32.5	53.8	--
Dyna-Gro	S007XT27	00.7	9/7	15.5	32.8	56.8	61.7
Dyna-Gro	S009XT68	00.9	9/10	14.6	33.5	57.9	--
Hefty	H005X8	00.5	9/6	15.2	33.6	37.0	--
Hefty	H007X7	00.7	9/8	14.9	32.2	46.4	50.8
Hefty	H008R6	00.8	9/11	15.0	34.0	50.5	61.4
Hefty	H009X7	00.9	9/8	14.8	32.9	43.6	55.6
Hefty	H00R6	0.0	9/8	15.9	32.6	46.0	63.2
Integra	20062	00.6	9/5	16.1	33.1	47.8	--
Integra	20087	00.8	9/11	14.9	33.3	59.6	70.1
Integra	20097	00.9	9/11	15.8	33.3	53.4	67.2
Integra	50069	00.6	9/5	15.2	32.9	49.1	--
Legacy	LS-00538 RR2X	00.5	9/6	15.5	32.9	48.0	--
Legacy	LS-00738N RR2X	00.7	9/6	15.3	32.7	54.5	--
Legacy	LS-00937 RR2X	00.9	9/9	14.4	33.0	52.4	63.0
Legacy	LS-0135 RR2	00.9	9/11	16.7	32.6	50.9	65.0
Legacy	LS-0214 RR2	0.2	9/12	15.4	33.8	47.9	66.4
Legacy	LS-0237N RR2X	0.2	9/13	15.3	33.4	50.4	65.1
Mustang	00X698	00.6	9/5	15.3	32.8	49.9	--
Mustang	00X828	00.8	9/11	15.5	32.5	47.3	--
Mustang	02356	0.2	9/10	16.4	31.9	51.2	--
Mustang	02311	0.2	9/13	14.8	34.3	50.5	--
NDSU	ND17009GT	00.9	9/9	15.9	35.4	50.5	--
NorthStar	NS 60053XR2	00.5	9/5	14.9	32.7	51.0	--
NorthStar	NS0052R2	00.5	9/5	15.9	33.0	49.9	56.6
NorthStar	NS0072R2	00.7	9/13	15.5	33.9	49.9	60.0
NorthStar	NS 60083NXR2	00.8	9/11	15.3	33.0	54.2	--
NuTech	6502	00.5	9/2	16.1	33.3	54.4	--
NuTech	6008R2	00.8	9/10	15.3	32.4	57.0	57.1
Peterson	18X008N	00.8	9/9	15.9	32.7	40.1	--
Peterson	17X009	00.9	9/10	14.9	33.5	43.6	59.9
Peterson	16R008N	00.8	9/12	14.7	33.6	50.8	60.0
Peterson	16R01	0.1	9/11	15.7	33.7	44.3	62.0
Prairie	PB-00856R2	00.9	9/12	15.1	33.2	46.7	59.6
Prairie	PB-00928R2	00.9	9/13	15.7	33.0	57.9	--
Prairie	PB-0146R2	0.1	9/11	15.7	33.4	43.8	62.1
Proseed	30-07	00.7	9/5	14.8	33.3	49.5	--
Mean			9/9	15.5	33.0	50.7	61.7
CV %			15.8	3.3	2.6	6.4	--
LSD 0.05			1.9	1.0	NS	4.4	--
LSD 0.10			1.6	0.8	NS	3.7	--

**Table 33. 2017 Soybean - Roundup Ready - Cavalier (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry (2 of 2).**

Company/ Brand		Maturity Group	Maturity <sup>1</sup>	Seed Oil	Seed Protein	Seed Yield	
Variety		Group	(date)	(%)	(%)	2017	2-yr. Avg.
						----- (bu/a) -----	
Proseed	40-07	00.7	9/2	14.7	31.7	53.8	57.2
Proseed	50-08N	00.8	9/13	15.2	32.9	57.7	66.3
Proseed	XT 60-09	00.9	9/10	15.4	32.2	54.3	63.6
Proseed	70-08 XN	00.8	9/12	15.4	32.6	50.7	--
REA	R00727	00.7	9/8	15.1	33.6	57.9	62.9
REA	RX00738	00.7	9/10	15.5	32.2	51.6	--
REA	RX0228	0.2	9/13	16.0	32.9	52.5	--
Syng GH	GH00866	00.8	9/9	16.6	32.1	60.4	--
Syng NK	S009-J1	00.9	9/9	16.1	32.7	67.0	--
Thunder	SB88005	00.5	9/2	15.3	34.9	46.8	--
Thunder	SB88007N	00.7	9/10	15.6	32.1	58.2	--
Thunder	36008 R2Y	00.8	9/13	15.4	33.3	56.4	63.1
Thunder	37004 R2Y	00.4	9/8	15.8	33.0	54.3	--
Thunder	SB87009	00.9	9/11	14.7	33.1	50.6	--
Thunder	3601 R2Y	0.1	9/11	15.8	33.0	51.3	66.5
Wensman	W10042RX	00.4	9/6	15.7	33.3	47.9	--
Wensman	W10063NRX	00.6	9/6	14.7	33.5	56.7	62.1
Wensman	W1011RX	0.1	9/14	15.8	33.7	51.3	--
Wensman	W30085R2	00.8	9/12	14.9	33.5	56.7	--
Mean			9/9	15.5	33.0	50.7	61.7
CV %			15.8	3.3	2.6	6.4	--
LSD 0.05			1.9	1.0	NS	4.4	--
LSD 0.10			1.6	0.8	NS	3.7	--

Planted: May 19. Harvested: Oct. 6.

<sup>1</sup>Date of physiological maturity at R7 stage (one pod on the main stem is mature brown or tan color).



**Table 34. 2017 Soybean - Roundup Ready - Pekin (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry (1 of 2).**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Plant Lodge <sup>2</sup> (0-9)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2017      2-yr. Avg. ----- (bu/a) -----	
Allegiant	01R80	0.1	9/5	1.4	37	15.9	33.7	70.3	--
Allegiant	02X03	0.2	9/9	1.9	39	15.2	33.1	67.9	--
Allegiant	04X08N	0.4	9/12	2.0	34	15.2	35.0	71.7	--
Channel	00717R2X	00.7	9/5	1.3	33	14.6	33.8	70.6	--
Channel	0218R2X	0.2	9/7	0.6	37	15.3	33.6	64.0	--
Dairyland	DSR-C918/2Y	00.9	9/7	1.4	30	14.2	35.3	64.9	67.6
Dairyland	DST00-003/R2Y	0.0	9/7	1.5	32	15.5	32.8	70.0	--
Dairyland	DST-0225/R2Y	0.2	9/6	2.4	37	16.2	33.0	70.2	--
Dairyland	DSR-0305/R2Y	0.3	9/10	1.2	33	15.5	33.2	70.2	72.4
Dairyland	DSR-0404/R2Y	0.4	9/11	1.2	32	14.5	34.8	70.8	68.8
Dairyland	DSR-0418/R2Y	0.4	9/13	0.9	32	14.6	35.4	66.7	--
Dyna-Gro	S01RY86	0.1	9/4	1.3	37	16.3	32.9	70.7	71.8
Dyna-Gro	S03RY36	0.3	9/9	1.6	33	14.9	34.9	72.0	72.3
Dyna-Gro	S04XT77	0.4	9/10	1.7	33	15.8	33.9	69.9	73.1
Hefty	H02R3	0.2	9/11	1.6	35	14.7	34.9	73.0	73.1
Hefty	H02X7	0.2	9/10	2.7	40	15.2	33.1	68.8	70.3
Hefty	H03X7	0.3	9/11	1.4	33	15.6	33.8	69.8	68.7
Hefty	H03X8	0.3	9/12	1.6	38	15.3	32.3	67.2	--
Integra	20087	00.8	9/6	1.2	29	14.3	35.5	69.7	69.2
Integra	20097	00.9	9/5	2.8	37	15.9	33.3	71.5	70.7
Integra	20126	0.1	9/10	1.3	38	15.1	35.1	71.3	72.2
Integra	50069	00.6	9/3	1.0	33	15.2	32.2	66.0	--
Legacy	LS-0135 RR2	00.9	9/6	2.4	39	16.3	33.4	73.1	71.5
Legacy	LS-0214 RR2	0.2	9/8	1.8	35	15.3	34.3	73.0	71.1
Legacy	LS-0237N RR2X	0.2	9/12	2.0	37	14.8	34.0	71.8	72.7
Legacy	LS-0334 RR2	0.3	9/14	1.4	36	14.8	34.8	69.7	75.1
Legacy	LS 0337N RR2X	0.3	9/11	1.4	32	14.7	35.2	72.9	71.3
Legacy	LS-0438N RR2X	0.4	9/13	1.2	33	15.4	34.6	70.2	--
NDSU	ND17009GT	00.9	9/5	1.7	37	15.4	35.8	60.1	--
NorthStar	NS 0111R2	0.1	9/6	2.4	35	15.9	33.2	67.0	68.4
NorthStar	NS 60393NXR2	0.3	9/12	0.5	36	15.2	32.3	66.2	--
NorthStar	NS 60442NXR2	0.4	9/10	0.6	32	15.5	33.9	67.5	--
NorthStar	NS 60092XR2	00.9	9/6	1.4	38	14.1	34.2	71.5	--
NuTech	6048	0.4	9/9	1.3	38	14.7	36.0	64.4	--
Peterson	16R01	0.1	9/5	2.0	39	15.1	34.6	73.4	72.6
Peterson	17X04N	0.4	9/9	0.5	33	15.0	34.5	69.1	--
Prairie	PB-00928R2	00.9	9/8	0.8	32	15.6	33.4	69.7	--
Prairie	PB-0146R2	0.1	9/4	1.7	37	16.1	32.9	70.1	71.7
Prairie	PB-0397R2	0.3	9/11	1.4	34	14.9	34.3	68.6	68.8
Proseed	30-20	0.2	9/9	1.2	35	15.0	34.8	69.2	71.4
Proseed	20-30	0.3	9/12	1.0	33	14.4	35.0	68.3	--
Proseed	XT 604	0.4	9/10	1.3	32	15.7	33.6	68.1	71.6
Proseed	50-60N	00.6	9/12	0.3	32	14.8	35.3	69.2	--
REA	RX0228	0.2	9/8	1.4	39	15.3	33.6	66.7	--
REA	RX0327	0.3	9/10	0.9	26	15.3	34.2	66.9	--
Stine	03RD66	0.3	9/12	0.5	33	14.5	34.9	71.1	--
Mean			9/8	1.5	35	15.2	34.0	69.1	70.8
CV %			16.6	58	8.2	2.7	1.8	5.4	--
LSD 0.05			1.9	1	4.0	0.8	1.2	5.2	--
LSD 0.10			1.6	1	3.3	0.7	1.0	4.4	--

**Table 34. 2017 Soybean - Roundup Ready - Pekin (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry (2 of 2).**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Plant Lodge <sup>2</sup> (0-9)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield ----- (bu/a) ----- 2017      2-yr. Avg.	
Syng GH	GH0391	0.3	9/12	1.9	32	15.1	33.6	70.5	--
Syng NK	S03-S6X	0.3	9/6	1.7	33	14.5	33.0	68.9	--
Thunder	SB88007N	00.7	9/5	1.7	36	15.6	33.0	67.4	--
Thunder	36008 R2Y	00.8	9/9	1.4	33	15.0	34.1	65.2	59.0
Thunder	SB87009	00.9	9/10	1.8	39	13.8	34.6	65.2	--
Thunder	3503 R2Y	0.3	9/11	1.4	32	14.8	35.2	69.5	72.7
Thunder	SB8703	0.4	9/11	1.4	39	14.9	33.2	67.1	--
Thunder	3601 R2Y	0.1	9/7	2.8	38	15.6	33.7	71.0	72.0
Wensman	W10063NRX	00.6	9/5	0.7	32	15.0	33.1	71.2	--
Wensman	W1011RX	0.1	9/10	1.5	36	15.9	33.7	65.5	--
Wensman	W1039NRX	0.3	9/12	1.2	37	14.7	32.8	68.4	--
Wensman	W1048NRX	0.4	9/10	1.6	33	15.1	34.4	71.0	--
Mean			9/8	1.5	35	15.2	34.0	69.1	70.8
CV %			16.6	58	8.2	2.7	1.8	5.4	--
LSD 0.05			1.9	1	4.0	0.8	1.2	5.2	--
LSD 0.10			1.6	1	3.3	0.7	1.0	4.4	--

Planted: May 24. Harvested: Oct. 5.

<sup>1</sup>Date of physiological maturity at R7 stage (one pod on the main stem is mature brown or tan color).<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.

**Table 35. 2017 Soybean - Roundup Ready - Minot (North Central REC) - Authors, E. Eriksmoen and J. Effertz (Pg. 1 of 2).**

Company/ Brand	Variety	Maturity	IDC	Maturity	Plant	Test	Seed	Seed	Seed Yield	
		Group	Rating <sup>1</sup>						2017	2-yr. Avg.
			(1-5)	(date)	(inches)	(lb/bu)	(%)	(%)	----(bu/a)----	
Dairyland	DSR-0225/R2Y	0.2	2.1	9/6	32	56.0	18.5	28.5	36.2	44.2
Dairyland	DSR-C918/R2Y	00.9	2.2	9/12	31	56.4	17.7	27.5	33.4	40.6
Dairyland	DST00-003/R2Y	0.0	2.6	9/12	33	57.0	17.9	29.2	47.0	--
Dyna-Gro	S009RY56	00.9	2.1	9/10	32	56.6	17.9	27.6	32.6	40.8
Dyna-Gro	S009XT68	00.9	2.1	9/9	35	56.4	17.2	28.1	34.0	--
Dyna-Gro	S03RY36	0.3	1.8	9/11	30	57.1	18.1	28.4	45.0	--
Hefty	H005x8	00.5	2.1	9/4	29	57.2	17.5	28.1	34.2	--
Hefty	H007x7	00.7	2.1	9/1	25	57.1	16.8	30.1	34.7	36.0
Hefty	H008x8	00.8	2.3	9/8	32	56.9	17.5	29.8	39.1	--
Hefty	H009x7	00.9	1.9	9/7	30	56.0	17.3	28.9	34.6	40.0
Hefty	H03x7	0.3	2.1	9/12	31	57.0	17.6	30.1	33.4	40.6
Hefty	H05x7	0.5	2.4	9/14	31	57.5	17.2	30.3	30.6	40.4
Integra	20062	00.6	2.2	9/3	28	56.2	18.1	29.1	29.6	--
Integra	20097	00.9	2.1	9/6	33	56.6	18.8	27.6	29.8	40.1
Integra	20126	0.1	2.1	9/10	30	57.1	18.4	29.2	31.4	42.0
Integra	20215	00.9	2.2	9/8	33	56.4	17.5	28.1	29.4	38.8
Legacy	LS-00538N RR2X	00.5	2.0	9/8	29	57.1	17.7	27.6	33.6	--
Legacy	LS-00737N RR2X	00.7	2.0	9/6	30	56.6	17.2	28.2	38.5	--
Legacy	LS-00834 RR2	00.7	2.1	9/1	29	56.2	16.3	29.3	27.8	--
Legacy	LS-00835N RR2	00.8	2.3	9/9	32	56.2	18.2	27.2	29.8	--
Legacy	LS-00937 RR2X	00.9	1.9	9/8	34	56.8	17.4	26.8	31.0	--
Legacy	LS-0135 RR2	00.9	1.9	9/9	36	56.3	18.7	27.4	32.4	--
Legacy	LS-0214 RR2	0.2	2.1	9/10	33	56.4	18.3	29.0	38.7	--
Legacy	LS-0237 RR2X	0.2	2.3	9/10	37	57.0	18.1	27.4	31.7	--
Legacy	LS-0337N RR2X	0.3	2.1	9/12	30	57.5	18.1	27.6	33.1	--
Legend	LS 005X853	00.5	2.1	9/6	32	57.5	18.2	26.1	25.6	--
Legend	LS 006R760N	00.6	1.9	9/1	24	55.1	18.6	27.2	22.2	--
Legend	LS 009X852N	00.9	1.9	9/8	31	56.5	18.6	25.8	34.3	--
Legend	LS 01X850	0.1	1.8	9/8	28	57.4	17.6	27.8	26.3	--
NDSU	ND17009GT	00.9	2.7	9/7	31	58.1	19.0	28.4	27.4	35.0
NorthStar	NS 0072R2	00.7	2.0	9/11	35	56.8	18.0	29.5	32.7	39.7
NorthStar	NS 0081NR2	00.8	2.0	9/11	33	57.1	18.3	27.4	34.0	44.8
NorthStar	NS 0111R2	0.1	1.9	9/7	33	56.5	18.8	27.5	31.2	39.4
NorthStar	NS 60082NXR2	00.8	1.9	9/6	28	55.9	17.9	27.3	30.7	--
NorthStar	NS 60092XR2	00.9	1.7	9/10	34	56.7	17.2	28.0	29.4	--
NorthStar	NS 60442NXR2	0.4	2.2	9/11	27	56.7	18.6	27.1	26.7	--
Peterson	16R008N	00.8	2.0	9/8	31	56.6	18.3	26.8	32.8	39.1
Peterson	16R01	0.1	2.1	9/8	37	55.9	18.5	27.1	41.9	46.6
Peterson	17x009	00.7	2.0	9/9	33	57.1	17.3	28.4	37.5	44.1
Peterson	18X008N	00.8	2.0	9/6	32	57.1	17.8	28.6	38.8	--
Prairie	PB-00856R2	00.9	2.3	9/10	31	56.8	17.9	28.1	33.9	--
Prairie	PB-00928R2	00.9	2.7	9/12	30	57.2	18.1	29.0	40.7	--
Prairie	PB-0146R2	0.1	2.1	9/8	31	55.8	18.8	27.8	38.6	44.8
Prairie	PB-0397R2	0.3	2.1	9/12	31	57.3	18.2	26.8	37.2	--
Proseed	10-08	00.8	1.9	9/8	34	57.6	17.9	27.6	38.1	40.6
Proseed	20-30	0.3	2.1	9/11	32	56.5	17.6	29.4	33.5	42.4
Proseed	30-07	00.7	1.9	9/2	25	56.5	17.0	27.8	25.8	--
Proseed	30-20	0.2	1.9	9/8	32	55.4	18.4	29.2	34.6	42.3
Proseed	50-08	00.8	2.4	9/10	32	57.3	17.5	29.5	35.0	--
Proseed	XT 60-09	00.9	2.1	9/9	35	57.1	17.3	28.4	34.1	42.4
REA	R00727	00.7	1.9	9/7	34	55.2	17.6	27.3	41.8	43.5
Mean			2.2	9/8	32	56.7	17.9	28.1	34.3	41.1
CV %			21	17	5.9	1.3	2.7	4.7	11.0	--
LSD 0.05			0.3	2.0	3.0	1.2	0.8	2.1	6.1	--
LSD 0.10			0.2	2.0	3.0	1.0	0.6	1.8	5.1	--

**Table 35. 2017 Soybean - Roundup Ready - Minot (North Central REC) - Authors, E. Eriksmoen and J. Effertz (Pg. 2 of 2).**

Company/ Brand	Variety	Maturity Group	IDC Rating <sup>1</sup>	Maturity	Plant Height	Test Weight	Seed Oil	Seed Protein	Seed Yield	
			(1-5)	(date)	(inches)	(lb/bu)	(%)	(%)	2017	2-yr Avg.
									----- (bu/a) -----	
REA	RX00738	00.7	2.2	9/7	35	56.8	17.3	27.4	39.0	--
REA	RX0228	0.2	1.5	9/9	34	56.3	18.6	26.3	34.9	--
REA	RX0327	0.3	2.2	9/11	30	57.4	18.4	27.7	31.7	--
Thunder	34006 R2Y	00.6	2.4	9/9	33	55.4	17.9	28.4	34.7	--
Thunder	36008 R2YN	00.8	2.3	9/10	33	56.9	17.5	29.8	38.8	--
Thunder	3601 R2Y	0.1	2.0	9/11	36	56.0	18.1	28.7	39.8	--
Thunder	37004 R2Y	00.4	2.3	9/6	29	56.0	17.8	29.7	32.1	--
Thunder	Astro	00.8	1.8	9/12	33	57.5	16.9	29.3	40.5	--
Thunder	SB87009	00.9	1.8	9/10	30	57.2	16.9	30.2	34.1	--
Thunder	SB8703	0.3	2.1	9/11	34	57.1	18.5	26.1	38.5	--
Thunder	SB88007N	00.7	2.2	9/5	32	57.8	18.0	27.7	36.3	--
Wensman	W10063NRX	00.6	2.1	9/5	30	55.8	17.9	26.8	38.8	--
Wensman	W1011RX	0.1	2.3	9/10	36	57.3	18.3	27.4	41.8	--
Wensman	W30085NR2	00.8	2.3	9/9	31	57.2	17.9	28.1	33.7	39.3
Wensman	W3024R2	0.2	2.3	9/9	30	56.6	17.3	29.1	39.0	--
Mean			2.2	9/8	32	56.7	17.9	28.1	34.3	41.1
CV %			21	17	5.9	1.3	2.7	4.7	11.0	--
LSD 0.05			0.3	2.0	3.0	1.2	0.8	2.1	6.1	--
LSD 0.10			0.2	2.0	3.0	1.0	0.6	1.8	5.1	--

Planted: May 17. Harvested: Sept. 30. Previous crop: barley.

<sup>1</sup>Iron deficiency chlorosis rating: 1-green, 3-yellow, 5-dead tissue.<sup>2</sup>Maturity is date of 95 percent brown or tan pods.**Table 36. 2017 Soybean - Conventional - Minot (North Central REC) - Authors, E. Eriksmoen and J. Effertz.**

Company/ Brand	Variety	Maturity Group	IDC Rating <sup>1</sup>	Maturity	Plant Height	Test Weight	Seed Oil	Seed Protein	Seed Yield	
			(1-5)	(date)	(inches)	(lb/bu)	(%)	(%)	2017	2-yr. Avg.
									----- (bu/a) -----	
Integra	30080	00.8	--	9/6	31	54.6	17.6	29.1	31.9	--
Integra	30208N	0.2	2.0	9/9	31	54.0	17.8	27.6	33.1	--
NDSU	ND Benson	0.4	1.7	9/14	36	54.9	18.7	27.9	31.4	37.7
NDSU	ND Bison	0.7	1.8	9/12	30	55.5	18.0	26.6	35.0	38.0
NDSU	ND Henson	0.0	2.3	9/8	28	56.5	19.2	25.7	22.0	35.4
NDSU	ND Stutsman	0.7	1.9	9/12	36	56.0	18.1	26.6	37.2	40.2
RR check	AG 00632	00.6	--	9/5	31	55.1	16.9	28.8	27.4	31.6
RR check	AG 00932	00.9	--	9/6	33	54.4	16.6	28.4	28.2	35.3
Mean			2.0	9/8	31	55.0	18.1	27.3	28.5	--
CV %			21	17	6.9	1.2	2.6	6.1	19.0	--
LSD 0.05			0.3	2.0	3.0	1.1	0.8	2.7	9.0	--
LSD 0.10			0.2	2.0	3.0	0.9	0.6	2.3	7.5	--

Planted: May 17. Harvested: Sept. 30. Previous crop: barley.

<sup>1</sup>Iron deficiency chlorosis rating: 1-green, 3-yellow, 5-dead tissue.<sup>2</sup>Maturity is date of 95 percent brown or tan pods.

**Table 37. 2017 Soybean - Roundup Ready - Mohall (North Central REC) - Authors, E. Eriksmoen and J. Effertz (Pg. 1 of 2).**

Company/ Brand	Variety	Maturity Group	IDC Rating <sup>1</sup> (1-5)	Plant Height (inch)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
								2017	2-yr. Avg.
								----- (bu/a) -----	
Asgrow	AG00835	00.8	--	28	56.7	16.3	29.7	36.8	--
Croplan	R2T0091	00.9	--	29	57.4	17.5	28.5	35.0	--
Croplan	RX00926	00.9	--	30	56.7	16.8	29.6	40.2	--
Dyna-Gro	S005XT38	00.5	1.8	30	57.0	17.3	29.8	39.8	--
Dyna-Gro	S006RY97	00.6	2.0	29	56.9	17.0	31.3	39.9	45.6
Dyna-Gro	S009RY56	00.9	2.1	33	57.3	17.0	31.4	39.2	46.3
Dyna-Gro	S009XT68	00.9	2.1	31	57.0	16.8	29.2	37.8	--
Hefty	H005x8	00.5	2.1	30	58.1	17.6	28.2	36.6	--
Hefty	H007x7	00.7	2.1	29	56.9	16.0	31.4	40.9	--
Hefty	H008x8	00.8	2.3	31	57.8	17.1	30.0	32.1	--
Hefty	H009x7	00.9	1.9	32	57.3	16.3	30.4	42.3	--
Hefty	H03x7	0.3	2.1	29	57.4	17.4	31.3	38.0	46.1
Hefty	H05x7	0.5	2.4	30	57.7	16.6	31.8	43.3	48.5
Integra	20062	00.6	2.2	32	56.6	16.8	32.6	42.3	--
Integra	20097	00.9	2.1	31	56.5	17.5	31.7	39.8	43.2
Integra	20215	00.9	2.2	29	57.2	16.4	32.0	36.8	44.5
Integra	50098	00.9	2.1	33	56.4	15.9	31.9	41.2	--
Legacy	LS-00538N RR2X	00.5	1.9	30	58.1	17.5	29.1	35.7	--
Legacy	LS-00737N RR2X	00.7	2.0	28	56.6	16.2	30.8	42.0	--
Legacy	LS-00834 RR2	00.7	2.1	27	55.7	16.3	29.7	35.5	42.2
Legacy	LS-00835N RR2	00.8	2.0	33	56.8	16.6	32.1	45.3	49.2
Legacy	LS-00937 RR2X	00.9	1.9	32	57.3	16.3	30.3	39.5	--
Legacy	LS-0135 RR2	00.9	1.9	35	56.6	17.7	30.9	45.2	51.5
Legacy	LS-0214 RR2	0.2	2.1	33	57.6	17.4	32.3	41.0	48.7
Legacy	LS-0237 RR2X	0.2	2.3	35	57.7	17.4	30.3	40.6	--
Legacy	LS-0337N RR2X	0.3	2.1	30	57.5	17.5	31.2	35.4	--
Legend	LS 005X853	00.5	2.1	32	57.6	16.9	30.0	36.3	--
Legend	LS 006R760N	00.6	1.9	27	57.2	16.9	31.3	30.9	--
NDSU	ND17009GT	00.9	2.7	33	58.4	17.5	32.5	39.2	--
NorthStar	NS 0012R2	00.1	2.5	27	56.4	16.8	30.4	34.4	41.8
NorthStar	NS 0052R2	00.5	2.1	34	56.3	17.3	30.9	40.9	41.9
NorthStar	NS 0072R2	00.7	1.9	33	57.7	17.3	31.5	41.9	42.4
NorthStar	NS 0081NR2	00.8	2.0	31	56.2	16.8	31.6	37.5	44.3
NorthStar	NS 60053XR2	00.5	2.1	33	57.2	17.0	30.7	41.2	--
NorthStar	NS 60092XR2	00.9	1.7	33	57.0	16.3	30.0	40.6	--
Peterson	16R008N	00.8	2.0	32	56.5	16.7	31.2	38.8	43.5
Peterson	17x009	00.7	2.0	31	57.2	16.1	31.4	39.0	45.4
Prairie	PB-00856R2	00.9	2.3	30	56.2	16.7	31.4	40.3	47.4
Prairie	PB-00928R2	00.9	2.7	33	57.2	17.5	30.7	44.7	--
Prairie	PB-0146R2	0.1	2.1	31	56.1	17.5	31.1	39.7	50.8
Proseed	10-08	00.8	1.9	33	57.6	16.4	30.9	45.2	47.9
Proseed	20-30	0.3	2.1	32	58.3	16.9	31.8	37.1	--
Proseed	30-07	00.7	1.9	26	54.8	16.1	31.2	29.2	--
Proseed	30-20	0.2	1.9	34	57.0	17.5	31.3	41.1	--
Proseed	50-08	00.8	2.4	30	57.3	16.9	31.1	42.7	--
Proseed	XT 60-09	00.9	2.1	32	57.2	16.0	31.4	41.7	47.0
REA	R00727	00.7	1.9	28	56.0	17.5	29.2	37.6	45.9
Mean				31	57.1	16.9	30.8	39.1	46.0
CV %				9	1.1	3.3	5.0	8.5	--
LSD 0.05				4.0	0.9	0.8	2.2	4.6	--
LSD 0.10				3.0	0.7	0.7	1.8	3.8	--

**Table 37. 2017 Soybean - Roundup Ready - Mohall (North Central REC) - Authors, E. Eriksmoen and J. Effertz (Pg. 2 of 2).**

Company/ Brand	Variety	Maturity Group	IDC Rating <sup>1</sup> (1-5)	Plant Height (inch)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
								2017	2-yr. Avg.
								----- (bu/a) -----	
REA	RX00738	00.7	2.2	31	57.7	15.9	31.0	39.0	--
REA	RX0228	0.2	1.5	33	57.3	17.2	31.0	41.2	--
Thunder	34006 R2Y	00.6	2.4	30	57.3	17.0	30.3	33.9	--
Thunder	36008 R2YN	00.8	2.3	33	57.0	17.1	30.7	42.1	--
Thunder	3601 R2Y	0.1	2.0	33	56.6	17.2	31.6	35.4	--
Thunder	37004 R2Y	00.4	2.3	32	57.3	16.9	31.7	36.7	--
Thunder	Astro	00.8	1.8	34	57.5	16.1	31.6	39.7	--
Thunder	SB87009	00.9	1.8	32	56.9	16.5	31.0	31.2	--
Thunder	SB8703	0.3	2.1	36	57.2	17.5	29.8	34.7	--
Thunder	SB88007N	00.7	1.9	32	57.9	16.6	31.3	42.4	--
Wensman	W10063NRX	00.6	2.1	30	57.1	16.2	30.9	41.1	47.3
Wensman	W1011RX	0.1	2.3	30	57.5	17.8	29.7	38.7	--
Wensman	W30085NR2	00.8	2.3	31	57.2	17.2	29.9	39.7	46.9
Wensman	W30099R2	00.9	1.9	33	57.8	17.0	30.3	44.0	--
Wensman	W3024R2	0.2	2.3	31	56.7	16.4	31.4	40.4	47.0
Mean				31	57.1	16.9	30.8	39.1	46.0
CV %				8.5	1.1	3.3	5.0	8.5	--
LSD 0.05				4.0	0.9	0.8	2.2	4.6	--
LSD 0.10				3.0	0.7	0.7	1.8	3.8	--

Planted: May 20. Harvested: Oct. 3. Previous crop: durum.

<sup>1</sup>Iron deficiency chlorosis rating: 1-green, 3-yellow, 5-dead tissue.**Table 38. 2017 Soybean - Roundup Ready - Hettinger - Author, J. Rickertsen.**

Company/ Brand	Variety	Maturity Group	Maturity <sup>1</sup> (date)	Plant Height (inch)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
								2017	2-yr. Avg.
								----- (bu/a) -----	
Integra	20300	0.3	9/17	21	54.3	16.2	33.9	25.2	26.1
Integra	20617N	0.6	9/23	22	55.0	16.4	33.3	26.0	--
Integra	50319N R2X	0.3	9/17	21	53.9	16.9	32.3	21.9	--
Integra	50629N R2X	0.6	9/25	22	55.2	16.3	32.8	22.8	--
Proseed	30-20	0.2	9/13	23	52.3	17.9	32.6	26.3	26.6
Proseed	40-07	0.07	9/6	18	52.8	17.1	30.1	17.4	--
Proseed	40-50	0.5	9/21	23	54.9	16.1	34.1	24.5	--
Proseed	50-10	0.1	9/14	23	53.5	18.0	31.1	25.1	--
Proseed	50-60	0.6	9/23	22	54.5	16.2	33.7	24.5	--
REA	RX0628	0.6	9/23	22	54.5	17.9	31.4	23.4	--
REA	RX1027	1	9/26	20	55.8	16.3	33.2	21.3	--
REA	RX0327	0.3	9/17	21	53.4	17.3	31.4	23.5	--
Mean			9/19	22	54.2	16.9	32.5	23.5	26.3
CV %			0.1	6.2	1.2	2.4	2.6	11.0	--
LSD 0.05			1.2	1.9	0.9	0.6	1.2	3.7	--
LSD 0.10			1.0	2.0	0.8	0.5	1.0	3.1	--

Planted: May 23. Harvested: Sept. 28, Oct. 4. Previous crop: canola.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 39. 2017 Soybean - Wilton (North Central REC) - Authors, E. Eriksmoen and J. Effertz.**

Company/ Brand	Variety	Herbicide System <sup>1</sup>	Maturity Group	IDC	Plant Height	Test Weight	Seed Oil	Seed Protein	Seed Yield	
				Rating <sup>2</sup>					2017	2-yr. Avg.
				(1-5)	(inch)	(lb/bu)	(%)	(%)	----- (bu/a) -----	
Dyna-Gro	S03RY36	RR	0.3	1.8	26	56.4	15.6	33.5	55.9	--
Dyna-Gro	S05XT88	XT	0.5	2.3	28	55.8	16.3	32.7	45.5	--
Hefty	H005x8	XT	00.5	2.1	27	55.5	16.2	30.7	43.1	--
Hefty	H007x7	XT	00.7	2.1	24	56.5	15.7	32.2	42.8	--
Hefty	H008x8	XT	00.8	2.3	28	55.3	16.3	31.7	43.4	--
Hefty	H009x7	XT	00.9	1.9	30	56.5	14.9	32.7	50.3	48.6
Hefty	H00R6	RR	0.0	--	30	55.7	16.7	32.4	48.6	--
Hefty	H03x7	XT	0.3	2.1	27	56.2	15.9	32.9	49.5	48.7
Hefty	H05x7	XT	0.5	2.4	30	56.1	15.3	33.1	49.6	52.2
Integra	20126	RR	0.1	2.1	28	55.5	16.1	32.4	53.7	--
Integra	20215	RR	00.9	2.2	27	55.8	15.6	31.8	46.6	47.7
Integra	20300	RR	0.3	--	28	56.3	15.6	32.8	47.5	50.4
Integra	50319N	XT	0.3	--	29	56.5	15.4	32.1	43.5	--
Legacy	LS-00538N RR2X	XT	00.5	2.0	30	55.8	16.2	30.5	46.8	--
Legacy	LS-00737N RR2X	XT	00.7	2.0	26	55.9	15.5	32.1	46.1	--
Legacy	LS-00834 RR2	RR	00.8	2.1	23	54.4	15.0	32.1	43.9	--
Legacy	LS-00835N RR2	RR	00.8	2.3	29	55.0	15.7	33.0	46.7	46.9
Legacy	LS-00937 RR2X	XT	00.9	1.9	30	56.2	14.9	32.9	54.1	--
Legacy	LS-0135 RR2	RR	00.9	1.9	30	55.6	16.4	32.4	48.2	48.6
Legacy	LS-0214 RR2	RR	0.2	2.1	28	55.3	16.1	32.6	56.8	--
Legacy	LS-0237 RR2X	XT	0.2	2.3	33	55.9	15.7	31.8	54.4	--
Legacy	LS-0334 RR2	RR	0.3	2.2	31	56.5	15.4	34.0	53.3	56.1
Legacy	LS-0337N RR2X	XT	0.3	2.1	26	56.2	16.1	32.3	48.9	49.4
Legacy	LS-0438 RR2X	XT	0.4	2.1	28	55.7	16.2	32.5	48.0	--
NDSU	ND17009GT	RR1	00.9	2.7	27	57.5	16.4	34.0	41.5	--
Proseed	11-50	RR	0.5	--	30	56.5	15.7	32.1	55.3	--
Proseed	20-30	RR	0.3	2.1	27	56.0	15.7	32.8	50.5	54.4
Proseed	30-20	RR	0.2	1.9	27	55.6	16.1	32.7	58.0	--
Proseed	XT 605	XT	0.5	--	29	55.2	15.7	33.3	43.8	--
REA	RX0327	XT	0.3	2.2	27	56.0	16.3	32.4	49.0	--
REA	RX0516	XT	0.5	2.6	27	56.5	14.8	32.7	48.8	--
Thunder	34006 R2Y	RR	00.6	2.4	26	55.0	16.0	32.2	42.4	--
Thunder	36008 R2YN	RR	00.8	2.3	27	55.7	15.7	33.0	39.9	--
Thunder	3601 R2Y	RR	0.1	2.0	30	55.6	16.6	32.7	49.1	--
Thunder	37004 R2Y	RR	00.4	2.3	26	55.6	16.2	32.8	44.4	--
Thunder	Astro	RR	00.8	1.8	25	55.8	15.1	33.0	41.5	--
Thunder	SB87009	XT	00.9	1.8	28	56.1	14.8	32.8	47.3	--
Thunder	SB8703	XT	0.3	2.1	33	56.0	15.9	31.8	55.2	--
Thunder	SB88007N	XT	00.7	1.9	29	55.7	16.3	31.7	45.4	--
Wensman	W1011RX	XT	0.1	2.3	29	55.8	16.2	32.7	53.7	--
Wensman	W1039NRX	XT	0.3	2.3	30	55.6	15.5	32.0	42.8	--
Wensman	W1048NRX	XT	0.4	2.0	28	56.4	16.2	32.3	51.3	--
Wensman	W3024R2	RR	0.2	2.3	29	56.1	15.7	31.8	50.8	45.7
Mean				2.2	28	55.9	15.8	32.5	47.7	49.9
CV %				21.4	7.7	1.1	1.8	1.5	8.6	--
LSD 0.05				0.3	3.0	0.9	0.4	0.7	5.8	--
LSD 0.10				0.2	3.0	0.7	0.3	0.6	4.8	--

Planted: May 19. Harvested: Oct. 2. Previous crop: spring wheat.

<sup>1</sup>RR = Roundup Ready and XT = Extend<sup>2</sup>Iron deficiency chlorosis rating: 1-green, 3-yellow, 5-dead tissue.



**Table 40. 2017 Soybean - Dryland, Roundup Ready - Williston - Authors, J. Bergman, G. Pradhan, E. Link and A. Link.**

Company/ Brand	Variety	Maturity		Plant Height	Test Weight	Seed Oil	Seed Protein	Seed Yield	
		Group	Maturity <sup>1</sup> (date)					2017	2-Yr. Avg.
				(inch)	(lb/bu)	(%)	(%)	----- (bu/a) -----	
Integra	20097	0.9	9/14	19	55.7	17.7	35.8	29.3	25.1
Integra	20126	0.1	9/14	19	55.7	17.4	35.9	30.1	--
Integra	50319N RR2X	0.3	9/21	20	56.6	16.9	36.1	24.6	--
NDSU	ND17009GT	0.9	9/13	20	58.0	17.0	37.1	30.3	--
NuTech	6008R2	0.08	9/7	16	55.3	18.2	33.1	26.0	22.0
NuTech	6048	0.4	9/14	17	56.5	16.8	37.3	28.1	--
NuTech	6502	0.05	9/10	15	55.4	17.2	35.7	26.8	--
REA	RX0327	0.3	9/15	18	56.3	17.1	36.7	30.9	--
REA	RX0516	0.5	9/21	19	56.1	16.4	37.1	31.1	--
REA	RX0628	0.6	9/18	20	56.2	16.9	36.2	30.5	--
Mean			9/14	18	56.2	17.1	36.1	28.8	23.6
CV %			1.1	5.7	0.6	1.0	1.2	11.4	--
LSD 0.05			1.9	1.5	0.5	0.3	0.6	4.7	--
LSD 0.10			1.6	1.3	0.4	0.2	0.5	3.9	--

Planted: May 18. Harvested: Oct. 5. Previous crop: durum.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.**Table 41. 2017 Soybean - Dryland, Conventional - Williston - Authors, J. Bergman, G. Pradhan, E. Link and A. Link.**

Company/ Brand	Variety	Maturity		Plant Height	Seed Oil	Seed Protein	Seed Yield	
		Group	Maturity <sup>1</sup> (date)				2017	2-Yr. Avg.
				(inch)	(%)	(%)	----- (bu/a) -----	
Asgrow (RR Check)	AG 00632	0.6	9/8	14	17.0	36.0	19.0	22.3
Asgrow (RR Check)	AG 00932	0.9	9/10	15	17.0	35.1	25.7	21.8
NDSU	ND Bison	0.7	9/21	19	17.1	35.2	23.8	--
NDSU	ND Henson	0.0	9/11	16	17.4	35.2	26.9	24.7
Mean			9/12	16	17.1	35.4	23.9	22.9
CV %			1.2	7.4	1.7	1.7	13.7	--
LSD 0.05			2.0	1.8	0.4	0.8	4.8	--
LSD 0.10			1.7	1.5	0.3	0.7	4.0	--

Planted: May 18. Harvested: Oct. 5. Previous crop: durum.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 42. 2017 Soybean - Roundup Ready - McKenzie County (Williston) - Authors, J. Bergman, G. Pradhan, E. Link and A. Link.**

Company/ Brand	Variety	Maturity Group	Test Weight	Seed Oil	Seed Protein	Seed Yield	
						2017	2-Yr. Avg.
			(lb/bu)	(%)	(%)	----- (bu/a) -----	
Integra	20097	0.9	54.9	17.9	32.4	20.5	23.6
Integra	20126	0.1	53.1	17.8	32.5	26.3	--
NDSU	ND17009GT	0.9	58.3	17.8	31.5	26.2	--
NuTech	6008R2	0.8	54.9	18.3	29.7	25.4	24.4
NuTech	6048	0.4	55.8	17.0	33.8	28.0	--
NuTech	6502	0.5	54.8	17.4	31.1	22.4	--
REA	RX0327	0.3	54.3	17.3	33.0	23.5	--
REA	RX0516	0.5	55.7	17.0	32.8	28.4	--
REA	RX0628	0.6	54.8	17.6	31.3	23.6	--
Mean			55.2	17.6	32.0	24.9	--
CV %			1.0	3.9	6.3	17.2	--
LSD 0.05			1.0	NS	NS	NS	--
LSD 0.10			0.8	NS	NS	NS	--

Planted: May 18. Harvested: Oct. 5. Previous crop: durum.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

**Table 43. 2017 Soybean - Irrigated, Roundup Ready - Nesson Valley (Williston REC) - Authors, J. Jacobs and T. Tjelde.**

Company/ Brand	Variety	Maturity		Plant Height	Plant Lodge <sup>2</sup>	Test Weight	Seed Oil	Seed Protein	Seed Yield	
		Group	Maturity <sup>1</sup>						2017	2-Yr. Avg.
			(date)	(inch)	(0-9)	(lb/bu)	(%)	(%)	----- (bu/a) -----	
Integra	20300 R2Y	0.3	9/18	35	1.0	56.6	14.6	36.2	80.4	--
Integra	20617N R2Y	0.6	9/20	33	1.5	56.9	14.4	37.6	71.3	--
Integra	50319N	0.3	9/20	36	2.0	57.3	14.7	35.1	67.9	--
NDSU	ND17009GT	00.9	9/9	35	3.0	57.9	14.9	37.8	67.7	62.7
NuTech	6048	0.4	9/18	34	2.3	56.9	14.6	37.4	61.0	--
NuTech	6502	00.5	9/10	23	1.0	56.4	15.3	35.1	50.9	--
NuTech	6008R2	00.8	9/13	33	2.0	56.6	15.5	33.0	49.6	55.0
REA	R00727	00.7	9/9	36	1.3	56.0	14.7	35.3	80.4	75.4
REA	RX00738	00.7	9/12	33	2.0	57.2	14.6	35.4	73.4	--
REA	RX0228	0.2	9/12	38	1.5	57.2	14.8	36.0	77.5	--
REA	RX0327	0.3	9/16	32	1.8	56.7	14.8	36.7	78.3	--
REA	RX0516	0.5	9/21	35	2.5	56.6	14.1	35.8	70.5	--
REA	RX0628	0.6	9/20	36	1.3	56.2	15.1	35.7	79.7	--
Mean			9/15	34	1.8	56.8	14.8	35.9	69.9	64.4
CV %			2.2	9.2	35.8	0.7	0.9	0.9	9.3	--
LSD 0.05			3.9	4.5	0.9	0.6	0.5	0.5	9.2	--
LSD 0.10			3.2	3.7	0.8	0.5	0.4	0.4	7.7	--

Planted: May 17. Harvested: Oct. 6. Previous crop: durum.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.

**Table 44. 2017 Soybean - Irrigated, Conventional - Nesson Valley (Williston REC) - Authors, J. Jacobs and T. Tjelde.**

Company/ Brand		Maturity		Plant	Plant	Test	Seed	Seed	Seed Yield	
	Variety	Group	Maturity <sup>1</sup>	Height	Lodge <sup>2</sup>	Weight	Oil	Protein	2017	2-Yr. Avg.
			(date)	(inch)	(0-9)	(lb/bu)	(%)	(%)	----- (bu/a) -----	
NDSU	Ashtabula	0.4	9/17	31	1.0	57.3	14.9	35.1	45.5	61.8
NDSU	ND Benson	0.4	9/15	30	1.3	57.3	14.9	36.1	46.6	55.0
NDSU	ND Bison	0.7	9/24	31	1.3	55.1	14.6	35.2	40.5	60.6
NDSU	ND Henson	0.0	9/23	29	1.3	55.1	14.5	35.9	43.4	62.9
NDSU	Sheyenne	0.7	9/21	30	1.5	57.0	14.9	35.8	44.7	57.9
Mean				30	1.3	56.4	14.7	35.6	44.1	59.6
CV %				11.3	40.7	3.0	2.1	2.5	18.9	--
LSD 0.05				5.3	0.8	2.6	0.5	1.4	12.9	--
LSD 0.10				4.3	0.6	2.1	0.4	1.1	10.5	--

Planted: May 17. Harvested: Oct. 6. Previous crop: durum.

<sup>1</sup>Maturity is date of 95 percent brown or tan pods.

<sup>2</sup>Lodging score: 1-upright, 9-flat on ground.

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