

North Dakota Soybean Variety Trial Results for 2014 and Selection Guide

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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.

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Soybean Variety Selection and Adaptation

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Selection

Soybean variety selection should be based on maturity, yield, seed quality, lodging, iron-deficiency chlorosis tolerance and disease reaction. 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 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 manage 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 season long 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 non-hosts, such as wheat, barley or corn, are preferred for white mold management.

Fungicides are labeled for management/suppression of white mold, but applications must be made on a preventative 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-trifoliolate-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 2014, IDC scores are provided in Tables 4-5.

Soybean Cyst Nematode

The 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. By 2012, SCN was confirmed in 12 counties in North Dakota. In 2013, the North Dakota Soybean Council began covering the cost of analyzing SCN soil samples that were submitted by growers.

To date, five additional counties tested positive for SCN (these are considered unconfirmed until laboratory confirmation). Growers are strongly urged to test their soils for SCN. If a positive sample for SCN is found, growers should begin actively managing SCN.

Crop rotation and resistance are the most important management tools against the disease. Two sources of resistance to SCN can be found in North Dakota. They are PI88788 and Peking. To the best of our knowledge, they are effective in the state. A minimum of a two-year rotation is critical for SCN management, although a rotation of two to three years is beneficial. Dry edible beans are susceptible to SCN and should not be used as a rotation crop when managing SCN.

General Information About the Tables

Variety trial data from all NDSU Research Extension Centers for all crops can be found at 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 value, it means that with 90 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 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 3 provides the full company name, abbreviated company name used in the tables and a website for the company.

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

Variety	Maturity Group	Fargo Relative Maturity	Height	Hilum Color	Remarks ¹
Jim	00.6	early	short	yellow	5
Ashtabula	0.4	med.	med.	yellow	1, 3
Prosoy	0.8	med. late	tall	yellow	2, 5, 6
Sheyenne	0.8	med. late	med.	yellow	1, 4
Hamlin	0.9	late	med.	black	1, 2, 3
Surge	0.9	late	med.	imp. black	1, 2
Deuel	1.0	late	med.	black	3

¹ Remarks 1 = Good iron chlorosis resistance; 2 = Plant early; 3 = Resistant to races 1-4 of phytophthora root rot; 4 = Resistant to races 1, 2 and 3 of phytophthora root rot; 5 = Susceptible to phytophthora root rot; 6 = Tofu bean.

Table 2. Locations and Planting Dates, 2014 North Dakota Soybean Trials.			
Location	Author/Investigator	Material Tested	Planting Date
Arthur, N.D.	Ted Helms	Roundup Ready and conventional	May 24
Grandin, N.D.	Ted Helms	Roundup Ready and conventional	May 18
Milnor, N.D.	Ted Helms	Roundup Ready and conventional	May 22
Northwood, N.D.	Ted Helms	Roundup Ready and conventional	May 29
Walcott, N.D.	Ted Helms	Roundup Ready and conventional	May 30
SCN sites	Ted Helms	Roundup Ready	May 22
IDC sites	Ted Helms	Roundup Ready	June 4
Carrington Research Extension Center	Mike Ostlie, Blaine Schatz, Kelly Bjerke, Lindy Berg Steve Schaubert, Steve Zwinger	Dryland and irrigated Roundup Ready Dryland and irrigated conventional Dryland organic	May 23 May 30 May 21
Barnes County trials, Dazey, N.D.	Mike Ostlie, Blaine Schatz, Tim Indergaard	Dryland Roundup Ready and conventional	May 24
LaMoure County trials	Ted Helms and Blaine Schatz	Roundup Ready and conventional	May 17
Wishek, N.D.	Mike Ostlie, Blaine Schatz, Tim Indergaard	Roundup Ready	May 22
Oakes research site	Blaine Schatz, Leonard Besemann, Tim Indergaard	Irrigated Roundup Ready and conventional	May 21
Langdon Research Extension Center	Bryan Hanson, Travis Hakanson, Lawrence Henry	Roundup Ready, conventional and Liberty Link	May 24
Pembina County, Cavalier, N.D.	Bryan Hanson, Travis Hakanson, Lawrence Henry	Roundup Ready	May 29
Walsh County, Park River, N.D.	Bryan Hanson, Travis Hakanson, Lawrence Henry	Roundup Ready, conventional and Liberty Link	May 27
Nelson County, Pekin, N.D.	Bryan Hanson, Travis Hakanson, Lawrence Henry	Roundup Ready	May 28
North Central Research Extension Center, Minot, N.D.	Eric Eriksmoen, James Tarasenko, Joe Effertz	Roundup Ready and conventional	May 23
Garrison and Mohall, N.D.	Eric Eriksmoen, James Tarasenko, Joe Effertz	Roundup Ready, Garrison Roundup Ready, Mohall	May 29 May 28
Hettinger Research Extension Center	John Rickertsen, Rick Olson	Roundup Ready and conventional	May 21
Williston Research Extension Center	Jerry Bergman, Gautam Pradhan, Diana Amiot, Bubba Lamolinare, Tyler Tjelde	Dryland Roundup Ready and conventional Irrigated	May 23 May 22
Ransom County	Brian Zimprich, Grant Mehring, Chad Deplazes, Hans Kandel	Roundup Ready	May 22
Cass County	Grant Mehring Hans Kandel, Chad Deplazes	Roundup Ready	May 29
Steele County	Alicia Harstad, Grant Mehring, Chad Deplazes, Hans Kandel	Roundup Ready	May 22

Table 3. Full Company Name, Abbreviated Name Used in Tables and Website.

Company	Abbreviated	Website
AgVenture	AgVenture	www.agventure.com
Asgrow	Asgrow	www.asgrowanddekalb.com
Brushvale Seed Inc.	Brushvale	www.brushvalseed.com
Channel Bio	Channel	www.channelbio.com
Dahlman Seed Co.	Dahlman	www.dahlmanseed.com
Dairyland Seed Co. Inc.	Dairyland	www.dairylandseed.com
DuPont Pioneer	Pioneer	www.pioneer.com
Dyna-Gro Seed	Dyna-Gro	www.dynagroseed.com
Hefty Seed Co.	Hefty	www.heftyseed.com
Hyland Seeds	Hyland	www.hylandseeds.com
Integra Fortified Seed	Integra	www.integraseed.com
Legacy Seeds Inc.	Legacy	www.legacyseeds.com
Legend Seeds Inc.	Legend	www.legendseeds.net
Mycogen Seeds	Mycogen	www.mycogen.com
NorthStar Genetics	NorthStar	www.northstargenetics.com
N.D. Foundation Seed	NDSU	www.ag.ndsu.nodak.edu/aginfo/seedstock/fss/
Nuseed	Nuseed	www.nuseed.com
NuTech Seed	NuTech	www.nutechseed.com
Partners Brand Seed LLC	Partners	www.partnersbrandseed.com
Peterson Farms Seed (PFS)	Peterson	www.petersonfarmsseed.com
Prairie Brand Seed	Prairie	www.prairiebrandseed.com
Producers Hybrids	Producer	www.producershybrids.com
Proseed Inc.	Proseed	www.proseed.net
REA Hybrids	REA	www.rea-hybrids.com
Renk Seeds	Renk	www.renkseed.com
Richland Organics	Richland	www.richlandorganics.com
SoDak Genetics	SoDak	www.roughridergenetics.com/So_Dak.htm
South Dakota State University	SDSU	www.sdstate.edu/ps/sdfssd/index.cfm
Soyko International	Soyko	www.circlecseeds.com
Stine Seed Co.	Stine	www.stinseed.com
SunOpta	Sunopta	www.sunopta.com
Syngenta NK Brand	Syng NK	www.syngenta.com/global/corporate/en/products-and-innovation/key-crops/Pages/soybean.aspx
Terning Seed	Terning	www.terningseeds.com
Thunder Seed Inc.	Thunder	www.thunderseeds.com
Wensman Seed	Wensman	www.wensmanseed.com
WinField Croplan	Croplan	www.winfield.com/Farmer/Croplan/FindSeed/Soybean/

Table 4. 2014 NDSU Roundup Ready Soybean Iron-deficiency Chlorosis Trial - Author, T. Helms (Page 1 of 2).

Company	Variety	3-site		3-site		3-site		
		Mean	Company	Mean	Company	Mean	Company	
		IDC ¹		IDC ¹			IDC ¹	
Legend	LS 03R22	1.3	Thunder	Astro	1.6	Renk	RS055NR2	1.8
Northstar	NS 0090R2	1.3	Dairyland	DSR-1340/R2Y	1.7	NuTech	6021	1.8
Dyna-Gro	34RY03	1.3	Legend	LS 009R20	1.7	NuTech	7063	1.8
Legend	LS 02R21	1.3	Syng NK	NKS02-B4	1.7	Integra	20646N	1.8
Croplan	R2T0091	1.4	Wensman	W 30099R2	1.7	Legacy	0214RR2	1.8
Dyan-Gro	S008RY43	1.4	Dyna-Gro	S006RY75	1.7	Pioneer	P008T22R2	1.8
Mycogen	5B024R2	1.4	Hefty	H007Y12	1.7	Proseed	P2 20-70	1.8
Prairie	PB-0240R2	1.4	Mycogen	5G009R2	1.7	Proseed	P2 20-30	1.8
Wensman	W 3030R2	1.4	Proseed	P2 11-07	1.7	Dyna-Gro	S14RY95	1.8
Proseed	P2 11-05	1.4	Wensman	W 30061NR2	1.7	Legend	LS 06R24N	1.8
Thunder	31009R2Y	1.5	Wensman	W 30084R2	1.7	Mycogen	5B066R2	1.8
Thunder	3503R2Y	1.5	Thunder	3205R2Y	1.7	Proseed	30-07	1.8
AgVenture	12B2	1.5	Dyna-Gro	S06RY24	1.7	Northstar	NS 006R2	1.8
Prairie	PB-00844R2	1.5	Integra	20031	1.7	Channel	0508R2	1.8
Dairyland	DSR-C905/R2Y	1.5	Integra	20090	1.7	Dyna-Gro	S007RY44	1.8
Hyland	HS 01RY02	1.5	Legend	LS 10R551N	1.7	NuTech	6007	1.8
Hyland	HX 10RY43	1.5	Mycogen	X54G007R2	1.7	NuTech	6143	1.8
Legend	LS 008R560N	1.5	Northstar	NS 1040NR2	1.7	NuTech	7104	1.8
Prairie	PB-00950R2	1.5	Peterson	14R06N	1.7	NuTech	6084R2	1.8
REA	140	1.5	Prairie	PB-00766R2	1.7	Integra	20126	1.8
REA	58G82	1.5	Stine	03RD66	1.7	Syng NK	NKS07-B6	1.8
REA	62G22	1.5	Wensman	W 3062NR2	1.7	Integra	20600	1.8
Dyna-Gro	30RY04	1.5	Dairyland	DSR-0305/R2Y	1.7	Legend	LS 007R550N	1.8
Syng NK	NKS00-A7	1.5	Integra	201B1	1.7	Mycogen	5B005R2	1.8
Northstar	NS 0080R2	1.5	Peterson	13R03	1.7	Legacy	LS0334RR2	1.9
Northstar	NS 0088R2	1.5	Proseed	30-11	1.7	AgVenture	08E5	1.9
Syng NK	NKS009-J1	1.6	Thunder	3307R2Y	1.7	Dyna-Gro	S07RY45	1.9
Peterson	14R008	1.6	Wensman	W 3031NR2	1.7	Integra	20076N	1.9
Asgrow	AG 00932(check)	1.6	AgVenture	05B2	1.8	Integra	21115N	1.9
Hefty	H008R3	1.6	Croplan	R2T0041	1.8	Peterson	14R02	1.9
Northstar	NS 0537R2	1.6	NuTech	6000	1.8	Asgrow	AG 0832(check)	1.9
Northstar	NS 0096R2	1.6	Hyland	HS 06RY26	1.8	NuTech	G2 6036	1.9
Thunder	3303R2Y	1.6	Integra	20300	1.8	NuTech	G2 6112	1.9
Legacy	LS1134NRR2	1.6	Legacy	LS00734NRR2	1.8	Hefty	H007R4	1.9
Mycogen	5B012R2	1.6	Legacy	LS00834RR2	1.8	Hefty	H01R4	1.9
Mycogen	5B033R2	1.6	Nuseed	2051RR2Y	1.8	Legend	LS 003R21	1.9
Proseed	P2 10-08	1.6	Peterson	15R006N	1.8	Legend	LS 003R24N	1.9
Proseed	P2 20-08	1.6	Peterson	15R07N	1.8	Proseed	P2 10-20	1.9
Thunder	3114R2Y	1.6	Proseed	P2 11-50	1.8	Terning	TS0503N	1.9
Nuseed	2034RR2YN	1.6	REA	REA 55G14	1.8	Syng NK	NKS007-Y4	1.9
Thunder	32005R2Y	1.6	REA	REA 64G94	1.8	Channel	1108R2	1.9
Thunder	3511R2YN	1.6	REA	REA 65G22	1.8	Integra	20915N	1.9
Mean		1.9	Mean		1.9	Mean		1.9
LSD (0.05)		0.34	LSD (0.05)		0.34	LSD (0.05)		0.34
CV		21.9	CV		21.9	CV		21.9

Table 4. 2014 NDSU Roundup Ready Soybean Iron-deficiency Chlorosis Trial - Author, T. Helms (Page 2 of 2).

Company	Variety	3-site	Company	Variety	3-site	Company	Variety	3-site
		Mean			Mean			Mean
		IDC ¹			IDC ¹			IDC ¹
Mycogen	5N110R2	1.9	Dairyland	DST02-001/R2Y	2.0	Nuseed	2074RR2YN	2.2
Nuseed	0074RR2YN	1.9	Mycogen	X54J009R2	2.0	Pioneer	P05T24R	2.2
Prairie	PB-0598R2	1.9	Prairie	PB-0291R2	2.0	REA	REA 69G13	2.2
Proseed	30-20	1.9	REA	REA 69G14	2.0	Renk	RS033R2	2.2
Legend	LS 005R24	1.9	Hyland	HX 01RY41	2.1	Hyland	HS 05RYS25	2.2
Wensman	W 3121NR2	1.9	AgVenture	04E4	2.1	Nuseed	2093RR2YN	2.2
Thunder	34006R2Y	1.9	Dairyland	DSR-0711/R2Y	2.1	REA	REA 71G14	2.2
Thunder	35007R2YN	1.9	Hyland	HS 09RYS12	2.1	Stine	08RE30	2.2
Asgrow	AG 0430(check)	1.9	Legend	LS 09R23N	2.1	Prairie	PB-0777R2	2.2
Asgrow	AG 0732(check)	1.9	Nuseed	2122RR2YN	2.1	Wensman	W 3024R2	2.2
Dyna-Gro	S12RY44	1.9	Wensman	W 3076R2	2.1	Pioneer	P01T23R	2.3
Legend	LS 06R565N	1.9	Dyna-Gro	S09RY64	2.1	Proseed	30-09	2.3
Northstar	NS 0480NR2	1.9	Northstar	NS 0949R2	2.1	Wensman	W 3090NR2	2.3
Peterson	14R11N	1.9	Proseed	30-60	2.1	Legacy	LS0833NRR2	2.3
NuTech	6083	2.0	REA	REA R1215	2.1	Legacy	LS0134RR2	2.3
Pioneer	P06T28R	2.0	Thunder	33009R2YN	2.1	Legacy	LS1314NRR2	2.3
Wensman	W 3080NR2	2.0	Legacy	LS0634NRR2	2.1	REA	REA 66G14	2.3
Northstar	NS 0318R2	2.0	Thunder	3506R2YN	2.1	Thunder	3408R2YN	2.3
Wensman	W 3032R2	2.0	Dairyland	DSR-C918/R2Y	2.1	Legend	08R22N	2.3
Legacy	LS0214RR2	2.0	Hefty	H02R3	2.1	Syng NK	NKS09-K4	2.3
Legend	LS 04R560N	2.0	Mycogen	5B040R2	2.1	SoDak Genetics	SD2091R2Y	2.3
Northstar	NS 0060R2	2.0	Syng NK	NKS05-M8	2.1	Dyna-Gro	S08RY23	2.4
REA	REA R0815	2.0	Proseed	30-70	2.1	Integra	20815N	2.4
Croplan	R2T00800	2.0	Hyland	HX 05RYS25	2.1	Peterson	14R13	2.4
Dairyland	DSR-0404/R2Y	2.0	Integra	20456N	2.1	REA	REA 61G24	2.4
Dairyland	DSR-0514/R2Y	2.0	Northstar	NS 0629NR2	2.1	Stine	11RD00	2.4
Dyna-Gro	S02RY74	2.0	Proseed	P2 20-90	2.1	Dahlman	5309NRR2Y	2.4
Legend	LS 04R560	2.0	Stine	06RE02	2.1	Proseed	30-80	2.4
Peterson	15R04	2.0	Terning	TS0622N	2.1	Terning	TS0812N	2.4
Pioneer	P03T68R2	2.0	SoDak Genetic	SD2101R2Y	2.2	Syng NK	NKS12-H2	2.4
REA	REA 53G32	2.0	Stine	01RE00	2.2	Prairie	PB-0863R2	2.4
Thunder	3201R2Y	2.0	Dairyland	DSR-0904/R2Y	2.2	NuTech	G2 7157	2.5
Wensman	W 3102NR2	2.0	Dyna-Gro	S04RY55	2.2	Syng NK	NKS10-P9	2.5
AgVenture	09E1	2.0	Legacy	LS0944NRR2	2.2	Integra	20109	2.5
Legend	LS 12R24N	2.0	Legend	LS 0634N	2.2	Hefty	H009R3	2.5
Mycogen	5B081R2	2.0	Mycogen	5N122R2	2.2	Hyland	HX 08RY51	2.5
Peterson	14R09N	2.0	Mycogen	X54070NR2	2.2	Dairyland	DSR-1120/R2Y	2.8
Peterson	15R05N	2.0	Integra	20215	2.2	Syng NK	NKS04-D3	2.8
Prairie	PB-0441R2	2.0	Mycogen	5N091R2	2.2	Susceptible check	Stine 0480#	2.9
Proseed	30-12	2.0	Dahlman	5311NRR2Y	2.2			
Mean		1.9	Mean		1.9	Mean		1.9
LSD (0.05)		0.34	LSD (0.05)		0.34	LSD (0.05)		0.34
CV		21.9	CV		21.9	CV		21.9

¹IDC score was 1-5 with 1-green, 5-dead tissue.

Table 5. 2014 NDSU Conventional and Liberty Link Soybean Iron-deficiency Chlorosis Trial - Author, T. Helms.

Company	Variety	3-site Mean IDC ¹	Company	Variety	3-site Mean IDC ¹
Asgrow ²	AG 00932	1.3	Hefty	H008L3	2.0
Northstar	NS 0095LL	1.5	Thunder	5303LLN	2.0
NuTech	2062L	1.5	Peterson	L05-11N	2.0
Integra	30080	1.6	Richland	MK 0249	2.0
NDSU	ND1100S	1.6	Asgrow ²	AG 0732	2.0
NDSU	Traill	1.6	NuTech	3103L	2.0
NuTech	2047L	1.7	Thunder	5205LLN	2.0
Asgrow ²	AG 0433	1.7	Brushvale	BS 53	2.1
Thunder	5401LL	1.7	Richland	MK 0205	2.1
SDSU	Duel	1.8	Richland	MK 0508	2.1
Dyna-Gro	S08LL84	1.8	Peterson	L08-14	2.1
Hefty	H0212	1.8	Proseed	LLPX405LL	2.1
Peterson	L13-15N	1.8	Richland	MK 9101	2.1
Dyna-Gro	S05LL34	1.8	NDSU	Ashtabula	2.1
Peterson	L11-13N	1.8	SDSU	Surge	2.2
Proseed	PX413NLL	1.8	Dyna-Gro	S08RY23	2.2
NDSU	Sheyenne	1.8	NuTech	2088L	2.2
Asgrow ²	AG 0832	1.8	Brushvale	BS 78	2.3
Dyna-Gro	S06RY24	1.8	Dyna-Gro	S04RY55	2.3
NDSU	ProSoy	1.8	NDSU	Cavalier	2.3
Stine	01LE06	1.8	Brushvale	BS 149	2.4
Northstar	NS 0129LL	1.9	Richland	MK 1016	2.4
Thunder	5411LLN	1.9	NDSU	ND1406HP	2.4
Integra	30300	1.9	Proseed	LL3014LL	2.4
Brushvale	BS 1408	1.9	SDSU	Roberts	2.7
SDSU	Codington	2.0	Susceptible check	Sargent ³	2.7
Dyna-Gro	S09RY64	2.0			
Mean		2.0	Mean		2.0
LSD (0.05)		0.3	LSD (0.05)		0.3
CV		21.8	CV		21.8

¹IDC score was 1-5 with 1-green, 5-dead tissue.

²Roundup Ready Asgrow Seed check varieties.

Table 6. 2014 NDSU Soybean Iron-deficiency Chlorosis Yield Trial, Author, T. Helms.

Company/Brand	Variety	Maturity (date)	IDC Score ¹ (1-5)	2014 Seed Yield (bu/a)			
				Erie	Leonard	Galesburg	Average
Channel	0508R2	9/24	2.6	28.0	13.0	3.8	14.9
Channel	1108R2	10/3	1.8	37.1	19.8	4.4	20.4
Dahlman	52009RR2Y	9/20	2.3	7.4	7.7	1.1	5.4
Dahlman	5203RR2Y	9/22	2.5	33.3	16.4	5.9	18.5
Dahlman	5405NRR2Y	9/21	2.7	27.1	15.0	3.1	15.1
Dyna-Gro	S04RY55	9/22	3.1	24.0	6.0	1.7	10.6
Dyna-Gro	S06RY24	9/23	2.5	25.7	15.5	5.4	15.5
Dyna-Gro	S07RY45	9/29	2.6	37.1	20.4	9.5	22.3
Integra	20600	9/23	1.7	25.8	17.3	7.5	16.8
Integra	20815N	9/28	3.0	31.2	15.7	1.0	15.9
Integra	20915N	10/1	2.8	33.7	15.9	4.3	18.0
Integra	21115N	10/2	2.5	34.5	20.7	5.9	20.4
Legacy	0634 NRR2	9/25	3.0	30.8	16.5	2.1	16.5
Legacy	0833 NRR2	10/1	3.0	28.6	9.6	0.9	13.0
Legacy	1134 NRR2	10/3	1.9	37.8	22.5	5.3	21.9
Mycogen	5B024R2	9/17	1.8	26.1	20.4	7.3	17.9
Mycogen	5B066R2	9/21	2.0	32.5	22.9	15.2	23.5
Mycogen	5B080R2	9/21	2.0	25.8	21.5	4.5	17.4
Mycogen	5B081R2	9/22	2.7	24.2	13.5	1.5	13.0
Nuseed	2034RR2YN	9/21	2.4	29.4	17.8	2.5	16.5
Nuseed	2051RR2Y	9/22	2.2	32.2	20.6	9.0	20.6
Nuseed	2074RR2YN	9/24	2.8	33.2	17.7	3.1	18.0
NuTech	6000	9/17	2.5	14.6	16.8	1.8	11.1
NuTech	6007	9/14	2.9	18.4	11.1	1.6	10.4
NuTech	6036	9/23	2.8	27.9	13.4	3.4	14.9
Peterson	14R09N	9/30	3.0	36.5	16.7	2.5	18.6
Peterson	14R11N	10/2	2.6	25.2	17.5	4.3	15.7
Peterson	15R07N	9/30	2.7	33.2	22.4	2.0	19.2
Proseed	11-07	9/14	2.2	5.5	11.0	0.9	5.8
Proseed	20-08	9/16	1.8	6.4	11.6	0.7	6.3
Proseed	30-07	9/16	2.7	7.4	11.9	0.8	6.7
Syng NK	NKS007-Y4	9/10	2.5	18.0	11.2	1.8	10.3
Syng NK	NKS02-B4	9/14	2.0	24.4	16.2	6.1	15.5
Syng NK	NKS06-H5	9/22	2.8	25.6	20.6	2.0	16.1
Thunder	3205R2Y	9/21	2.2	24.8	17.0	6.9	16.2
Thunder	33009R2YN	9/20	1.8	4.9	11.8	1.7	6.2
Thunder	3503R2Y	9/20	1.9	27.0	19.5	7.9	18.1
Wensman	W 30099R2	9/19	2.4	15.7	17.1	2.3	11.7
Wensman	W 3030R2	9/15	2.0	18.7	18.1	4.9	13.9
Wensman	W 3080NR2	9/30	2.7	39.5	17.0	8.0	21.5
Average		9/22	2.4	25.5	16.2	4.1	15.3
CV %		3.7	16.8	22.4	32.9	88.2	32.6
LSD (0.05)		2	0.23	6.7	6.3	4.3	2.9

¹Iron-deficiency chlorosis visual score based on one site: 1-green, 3-yellow, 5-dead tissue.

Table 7. 2014 Soybean Cyst Nematode Yield and Greenhouse Resistance - Authors, T. Helms, B. Nelson and S. Jain.

Company	Variety	Maturity (date)	Yield			Female Index ²	Resistance ³ HG type 0 ⁴
			Galesburg ¹	Wyndmere ¹	2-site Avg.		
Asgrow ⁵	AG 0832	9/30	43.0	72.3	57.7	--	--
Channel	0508R2	9/30	37.7	69.8	53.8	8	HR
Channel	1108R2	10/3	65.7	70.6	68.1	6	HR
Dahlman	5309NRR2Y	10/1	49.9	77.1	63.5	7	HR
Dahlman	5311NRR2Y	10/3	43.6	71.1	57.4	9	HR
Dahlman	5405NRR2Y	9/27	49.7	74.7	62.2	3	HR
Dyna-Gro	S008RY43	9/16	25.8	62.7	44.3	76	S
Dyna-Gro	S04RY55	9/22	42.5	70.7	56.6	4	HR
Dyna-Gro	S06RY24	9/27	52.9	76.8	64.8	6	HR
Integra	20600	9/26	47.9	68.7	58.3	55	LR
Integra	20815N	9/30	57.4	73.5	65.4	6	HR
Integra	20915N	10/3	56.8	73.1	64.9	4	HR
Legacy	0634 NRR2	9/29	44.7	73.2	59.0	5	HR
Legacy	0833NRR2	10/2	46.1	80.7	63.4	15	R
Legacy	1134 NRR2	10/5	53.0	69.6	61.3	6	HR
Mycogen	X54050NR2	9/24	50.6	78.3	64.5	7	HR
Mycogen	X54070NR2	9/30	39.3	63.6	51.8	3	HR
Nuseed	2034RR2YN	9/23	51.3	68.9	60.1	9	HR
Nuseed	2074RR2YN	9/30	49.2	75.9	62.5	10	R
NuTech	7063	9/26	40.1	74.0	57.0	2	HR
NuTech	7104	10/3	46.5	70.0	58.2	7	HR
NuTech	6084R2	9/28	24.4	66.0	45.2	72	S
Peterson	14R09N	10/3	54.7	77.4	66.0	11	R
Peterson	15R07N	10/1	47.9	74.0	60.9	15	R
Peterson	14R06N	9/28	32.3	67.4	49.8	19	R
Proseed	30-60	9/29	48.5	75.5	62.0	11	R
Proseed	30-80	9/29	56.1	78.1	67.1	10	R
Proseed	P2 20-90	9/29	46.5	74.2	60.4	53	LR
Syng NK	NKS06-H5	9/29	38.2	68.3	53.3	7	HR
Syng NK	NKS09-K4	9/28	45.9	71.9	58.9	4	HR
Syng NK	NKS12-H2	10/5	56.6	73.4	65.0	3	HR
Terning	TS 4055N	9/27	41.9	71.0	56.4	NT ⁶	--
Terning	TS 4063N	9/29	32.5	66.3	49.4	NT ⁶	--
Terning	TS 4085N	10/1	41.0	76.4	58.7	NT ⁶	--
Thunder	35007R2YN	9/15	23.6	54.4	39.0	13	R
Thunder	3506R2YN	9/30	56.3	73.4	64.8	3	HR
Wensman	W 3031NR2	9/23	43.8	70.2	57.0	5	HR
Wensman	W 3062NR2	9/27	42.8	73.3	58.1	7	HR
Wensman	W 3080NR2	10/2	57.9	75.3	66.6	5	HR
Susceptible ⁷	Barnes	--	--	--	--	100	--
Mean		9/28	45.0	72.0	58.4	--	--
CV %		3.6	15.0	7.1	10.3	--	--
LSD 0.10		3	8.1	6.0	5.0	--	--

¹The average egg count at Galesburg was 13,840 eggs per 100 cc soil and at Wyndmere it was 1,300 eggs per 100 cc soil. At Galesburg, strong female nematode development on the plants roots was observed, whereas at Wyndmere, there was almost no female development on the roots.

²Female Index (FI) = numbers of females on the test variety divided by the number of females on the susceptible check Barnes times 100.

³Illinois system for classifying resistance: FI <10 = Highly resistant (HR), FI 10-24 = Resistant (R), FI 25-39 = Moderately resistant (MR), FI 40-59 = Low resistance (LR), FI >60 = No resistance = Susceptible (S).

⁴HG type 0 is the same as Race 3, the most common SCN in North Dakota. Testing conducted under controlled conditions in greenhouse.

⁵Check variety that lacks genetic resistance to SCN.

⁶Variety not tested in greenhouse

⁷Barnes is the standard susceptible check but was not included in SCN field tests.

Table 8. 2014 NDSU Combined Central Roundup Ready Soybean Locations in North Dakota - Author, T. Helms (Page 1 of 2).

Company/ Brand	Variety	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield				
						Northwood	Arthur	Grandin	2014 Average	2-yr. Avg.
Channel	0508R2	9/27	29	17.6	33.1	56.7	51.8	58.1	55.5	--
Dairyland	DSR-0404/R2Y	9/26	29	16.6	34.9	55.6	64.6	61.4	60.5	53.3
Dairyland	DSR-0514/R2Y	9/26	30	16.9	34.8	59.5	62.6	57.0	59.7	--
Dairyland	DSR-0711/R2Y	10/1	29	17.3	33.1	63.3	53.2	56.0	57.5	--
Dairyland	DST02-001/R2Y	9/22	25	16.8	34.0	58.0	61.5	51.1	56.8	--
Dyna-Gro	S04RY55	9/24	29	16.9	34.4	51.8	60.3	53.2	55.1	--
Dyna-Gro	S06RY24	9/27	30	16.0	36.0	55.8	66.1	58.6	60.2	58.3
Dyna-Gro	S07RY45	9/30	33	17.6	32.4	54.8	65.1	69.0	63.0	--
Hyland	HS 05RYS25	9/26	29	16.9	34.0	60.5	62.9	59.8	61.1	--
Hyland	HS 06RY26	9/28	34	17.2	32.9	50.0	67.4	68.5	61.9	--
Integra	20600	9/28	33	17.3	32.9	55.2	63.6	69.4	62.7	57.0
Integra	20646N	9/28	32	16.6	35.2	52.5	63.9	58.4	58.3	--
Legacy	LS0214RR2	9/20	30	18.2	32.6	55.1	63.0	51.4	56.5	--
Legacy	LS0334 RR2	9/27	26	16.0	35.0	52.2	65.1	59.8	59.0	--
Legacy	LS0633 NRR2	9/29	30	17.1	33.3	47.7	58.5	58.9	55.0	--
Legacy	LS0634 NRR2	9/30	31	17.2	33.5	47.8	65.4	59.5	57.5	--
Mycogen	5B033R2	9/24	30	17.8	33.6	58.0	60.8	57.8	58.9	--
Mycogen	5B040R2	9/26	30	16.9	34.0	55.2	61.8	58.2	58.4	54.4
Mycogen	5B066R2	9/27	29	17.5	32.7	51.5	73.9	59.7	61.7	53.4
Mycogen	X54070NR2	9/19	24	17.2	34.2	60.9	60.0	46.7	55.9	--
NorthStar	NS0480NR2	9/26	30	17.4	33.1	58.8	60.7	56.7	58.7	--
NorthStar	NS0537R2	9/28	30	17.4	34.0	55.1	66.2	61.4	60.9	55.7
NorthStar	NS0629NR2	9/29	25	17.5	33.1	55.6	64.7	52.3	57.5	--
NorthStar	NS0318R2	9/25	29	17.4	33.0	54.7	60.2	58.1	57.6	--
Nuseed	2034RR2YN	9/24	34	17.0	33.9	50.9	57.2	52.3	53.5	--
Nuseed	2051RR2Y	9/27	31	17.0	33.0	57.5	67.1	63.0	62.5	--
NuTech	6000	9/18	22	18.5	32.7	54.7	52.2	50.6	52.5	--
NuTech	6007	9/16	24	17.9	33.9	46.7	44.9	46.7	46.1	--
NuTech	6036	9/26	26	19.0	32.4	57.2	59.6	50.7	55.8	--
NuTech	7063	9/26	26	18.3	31.6	57.2	63.8	52.6	57.9	48.0
Peterson	14R06N	9/28	27	16.8	34.2	51.7	58.5	57.9	56.0	--
Peterson	15R04	9/27	29	16.7	35.3	47.3	64.6	61.6	57.8	--
Peterson	15R05N	9/26	29	17.6	33.0	56.9	57.4	54.3	56.2	--
Peterson	14R02	9/25	29	17.2	34.5	53.6	54.2	57.9	55.2	--
Proseed	30-60	9/30	25	17.4	32.9	60.9	62.9	56.3	60.1	--
Proseed	30-80	10/1	30	17.4	33.4	55.8	70.1	56.8	60.9	--
Proseed	P2 11-50	9/28	32	17.2	32.9	56.1	67.6	63.8	62.5	58.7
Proseed	P2 20-70	9/28	28	16.5	35.0	53.4	60.2	55.6	56.4	51.3
Stine	03RD66	9/24	30	17.8	33.4	57.7	57.4	59.6	58.2	51.9
Stine	08RE30	9/27	28	17.3	33.5	61.7	70.0	59.6	63.8	--
Syng NK	NK S04-D3	9/20	27	17.7	33.0	50.4	56.7	50.0	52.3	51.5
Syng NK	NK S05-M8	9/26	25	17.3	33.8	50.7	64.2	52.4	55.7	50.9
Mean		9/25	29	17.2	33.7	54.5	60.9	56.9	57.4	53.6
CV %		2.0	3.0	0.6	1.5	7.3	8.0	6.3	4.2	--
LSD 0.10		2.9	7.6	2.1	2.5	9.9	9.7	8.1	9.3	--

Table 8. 2014 NDSU Combined Central Roundup Ready Soybean Locations in North Dakota - Author, T. Helms (Page 2 of 2).

Company/ Brand	Variety	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield				
						Northwood	Arthur	Grandin	2014 Average	2-yr. Avg.
Syng NK	NK S07-B6	9/28	26	17.4	33.4	61.5	60.3	54.9	58.9	--
Terning	TS 4055N	9/25	29	17.4	33.7	49.3	57.9	56.0	54.4	--
Terning	TS 4063N	9/30	30	17.3	33.2	48.4	61.9	58.8	56.4	--
Thunder	3205R2Y	9/28	32	17.0	33.8	56.4	66.2	65.1	62.6	54.7
Thunder	33009R2YN	9/18	23	17.6	32.8	48.7	37.5	39.5	41.9	--
Thunder	3503R2Y	9/26	29	17.1	35.1	56.6	64.1	61.2	60.6	--
Thunder	3506R2YN	9/30	32	16.7	34.2	51.9	64.6	66.9	61.1	--
Wensman	W 30099R2	9/22	26	18.0	32.3	48.8	52.3	48.6	49.9	--
Wensman	W 3030R2	9/21	29	17.4	33.7	55.0	51.1	48.0	51.3	--
Wensman	W 3031NR2	9/23	35	16.5	35.0	53.1	59.7	53.0	55.3	--
Wensman	W 3062NR2	9/27	29	16.3	35.4	52.2	59.2	58.7	56.7	50.7
Mean		9/25	29	17.2	33.7	54.5	60.9	56.9	57.4	53.6
CV %		2.0	3.0	0.6	1.5	7.3	8.0	6.3	4.2	--
LSD 0.10		2.9	7.6	2.1	2.5	9.9	9.7	8.1	9.3	--

¹Maturity is date of 95 percent brown or tan pods.

Table 9. 2014 NDSU Combined Central Conventional and Liberty Link Soybean Locations in North Dakota - Author, T. Helms.

Company/ Brand	Variety	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield				
						Northwood	Arthur	Grandin	2014 Average	2-yr. Avg.
Asgrow ²	AG 00932	9/14	24	17.4	33.2	46.8	27.9	36.9	37.2	--
Asgrow ²	AG 0732	9/30	27	17.3	33.8	55.0	40.7	54.7	50.1	44.0
Dyna-Gro	S04RY55	9/25	30	16.6	35.0	54.9	43.1	55.3	51.1	--
Dyna-Gro	S05LL34	9/29	28	18.0	32.9	53.8	42.8	55.8	50.8	--
Dyna-Gro	S06RY24	9/28	29	16.2	35.6	52.8	54.9	55.6	54.4	--
NDSU	Ashtabula	9/28	30	18.5	31.5	53.3	34.8	54.0	47.4	43.0
NDSU	Cavalier	9/16	23	18.2	33.2	43.7	30.7	37.7	37.4	35.8
NDSU	ProSoy	9/30	32	17.1	35.6	42.8	38.6	49.4	43.6	42.4
NDSU	Sheyenne	9/29	29	17.5	32.9	52.5	37.1	48.7	46.1	48.1
NuTech	2062L	9/27	28	18.1	32.9	54.9	51.8	53.0	53.2	--
Peterson	L05-11N	9/28	31	17.4	34.7	51.3	41.3	52.0	48.2	46.7
Richland	MK 0205	9/25	27	17.3	34.3	39.9	26.6	47.7	38.1	35.5
Richland	MK 0249	9/22	24	17.6	32.0	49.6	20.6	46.3	38.8	33.6
Richland	MK 0508	9/30	26	17.1	32.7	42.4	29.7	46.9	39.7	38.3
Thunder	5205LL	9/27	30	18.2	33.7	47.7	51.6	51.9	50.4	46.1
Thunder	5303LL	9/24	26	17.8	35.4	50.1	41.7	40.8	44.1	43.7
Thunder	5401LL	9/24	23	18.3	31.9	41.1	24.8	30.6	32.2	--
Mean		9/27	28	17.5	33.7	49.1	38.2	48.8	45.3	41.6
CV %		3.0	3.0	0.5	1.4	6.4	7.9	6.5	6.9	--
LSD 0.10		3.6	7.4	1.6	2.4	9.5	15.2	9.9	11.2	--

¹Maturity is date of 95 percent brown or tan pods.

²These two varieties are Roundup Ready and were included as checks.

Table 10. 2014 NDSU Combined Southern Roundup Ready Soybean Locations in North Dakota - Author, T. Helms (Page 1 of 2).

Company/ Brand	Variety	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	2014		2-yr. Avg.	
						Milnor	Walcott		
						Average			
						----- (bu/a) -----			
Channel	1108R2	10/5	32	17.3	34.4	55.7	52.6	54.1	--
Dahlman	5309NRR2Y	9/29	32	17.3	34.2	66.9	37.4	52.1	54.6
Dahlman	5311NRR2Y	10/2	28	17.7	34.4	56.8	29.5	43.1	49.6
Dairyland	DSR-0904/R2Y	9/30	31	17.4	33.6	66.7	38.5	52.6	54.4
Dairyland	DSR-0711/R2Y	10/1	27	17.6	33.1	61.9	27.9	44.9	--
Dyna-Gro	S08RY23	9/30	29	17.4	34.6	64.6	44.1	54.4	--
Dyna-Gro	S12RY44	10/1	28	17.4	35.2	52.3	42.9	47.6	54.2
Dyna-Gro	S09RY64	10/2	30	17.0	34.0	59.4	40.4	49.9	54.4
Hyland	HS 09RYS12	9/28	28	17.6	33.5	69.2	36.9	53.0	53.4
Hyland	HX 08RY51	10/2	28	17.1	32.9	58.2	38.7	48.6	--
Integra	20815N	9/29	29	16.9	34.5	61.7	37.6	49.6	52.5
Integra	21115N	10/1	32	16.8	36.2	59.6	45.6	52.6	56.0
Integra	20915N	10/3	29	16.9	34.0	57.0	39.2	48.1	--
Legacy	LS0834 NRR2	9/30	27	17.3	34.2	62.1	32.6	47.3	--
Legacy	LS0833 NRR2	9/30	31	17.5	34.1	58.0	37.8	47.9	--
Legacy	LS1134 NRR2	10/2	33	17.2	35.1	53.5	48.4	50.9	--
Legacy	LS1314 NRR2	10/2	29	17.1	32.9	58.6	36.9	47.7	--
Legend	08R22N	9/30	27	17.3	34.5	57.2	37.3	47.2	48.8
Legend	09R23N	10/1	33	16.9	34.1	62.7	39.6	51.1	54.2
Legend	12R24N	10/2	28	16.9	35.4	61.8	42.6	52.2	51.8
Legend	10R551N	10/4	31	17.8	34.1	54.5	49.9	52.2	--
Mycogen	5B081R2	9/27	28	16.7	34.7	61.7	28.5	45.1	50.7
Mycogen	5N091R2	9/29	30	17.6	34.3	66.9	41.0	53.9	56.7
Mycogen	5N122R2	10/2	29	17.2	35.1	48.6	45.4	47.0	-
Mycogen	5N110R2	10/3	31	16.7	34.7	58.2	40.3	49.2	--
NorthStar	NS0537R2	9/27	31	17.5	34.0	62.3	39.4	50.9	--
NorthStar	NS0629NR2	9/29	26	17.4	34.2	55.2	36.6	45.9	--
NorthStar	NS0949R2	10/1	29	17.7	34.9	55.9	46.7	51.2	--
NorthStar	NS1040NR2	10/6	30	17.5	34.6	47.9	49.5	48.7	--
Nuseed	2051 RR2Y	9/28	29	17.3	33.8	49.2	43.4	46.3	--
Nuseed	2074 RR2YN	9/30	27	16.6	35.6	59.7	38.3	49.0	--
Nuseed	2093 RR2YN	9/30	29	17.3	34.2	62.1	43.8	53.0	56.9
Nuseed	2122 RR2YN	10/3	25	17.6	34.6	61.1	42.1	51.6	57.1
NuTech	7063	9/25	26	17.8	32.6	58.7	38.8	48.7	52.2
NuTech	6036	9/26	25	18.3	33.7	64.3	27.0	45.6	--
NuTech	6084R2	9/29	29	16.9	35.1	57.2	24.5	40.9	--
NuTech	7104	10/3	27	17.8	34.8	57.2	35.2	46.2	--
Peterson	15R07N	9/29	29	17.4	33.5	63.0	38.7	50.8	--
Peterson	14R11N	10/1	32	16.6	36.0	60.5	37.8	49.1	--
Peterson	14R13	10/1	30	16.7	34.7	63.4	31.7	47.6	--
Peterson	14R09N	10/1	30	16.8	34.2	57.7	41.7	49.7	52.0
Proseed	P2 20-90	9/29	29	16.5	35.5	67.7	40.6	54.2	54.1
Proseed	30-80	9/29	30	17.0	34.8	58.3	37.3	47.8	--
Mean		9/30	29	17.1	34.5	59.7	38.1	48.9	52.6
CV %		2.0	5.0	0.8	1.3	9.6	7.6	6.1	--
LSD 0.10		2.7	11.9	2.3	1.8	11.9	14.6	13	--

Table 10. 2014 NDSU Combined Southern Roundup Ready Soybean Locations in North Dakota - Author, T. Helms (Page 2 of 2).

Company/ Brand	Variety	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	2014		2-yr. Avg.	
						Milnor	Colfax		
						Average			
						------(bu/a)-----			
Proseed	30-11	9/30	29	17.3	34.1	65.4	39.0	52.2	--
Proseed	30-12	10/3	29	17.7	35.1	56.0	32.7	44.3	--
SoDak	SD2101R2Y	9/29	28	17.0	34.7	56.1	32.5	44.3	45.8
SoDak	SD2091R2Y	9/30	25	16.4	34.5	54.9	16.1	35.5	40.7
Stine	06RE02	9/28	26	17.0	34.4	63.0	34.4	48.7	--
Stine	11RD00	9/30	30	15.9	35.3	54.6	38.9	46.7	--
Syng NK	NK S09-K4	9/28	22	18.2	32.2	64.7	29.8	47.2	--
Syng NK	NK S10-P9	9/29	26	16.6	34.6	60.7	37.4	49.0	52.1
Syng NK	NK S12-H2	10/2	27	16.2	35.8	61.0	28.5	44.7	--
Terning	TS 4055N	9/27	26	16.9	35.0	64.4	40.7	52.6	--
Terning	TS 4063N	9/28	31	16.4	35.6	58.1	36.7	47.4	--
Terning	TS 4085N	9/30	29	17.2	34.0	67.2	39.3	53.2	--
Thunder	3408R2YN	9/29	32	17.5	33.8	61.0	31.9	46.4	--
Thunder	3307R2Y	9/30	29	16.0	36.1	59.3	29.4	44.4	48
Thunder	3511R2YN	10/3	33	17.4	34.4	50.0	48.9	49.4	--
Thunder	3114R2Y	10/4	31	16.5	34.9	55.3	43.0	49.1	52.4
Wensman	W 3062NR2	9/27	28	16.5	36.8	58.9	39.1	49.4	53.2
Wensman	W 3080NR2	9/30	28	17.2	34.3	66.5	41.9	54.2	--
Wensman	W 3090NR2	10/1	27	17.2	34.5	66.6	44.3	55.5	56.7
Wensman	W 3121NR2	10/2	26	16.9	35.3	62.9	33.7	48.3	54
Mean		9/30	29	17.1	34.5	59.7	38.1	48.9	52.6
CV %		2.0	5.0	0.8	1.3	9.6	7.6	6.1	--
LSD 0.10		2.7	11.9	2.3	1.8	11.9	14.6	13	--

¹Maturity is date of 95 percent brown or tan pods.

Table 11. 2014 NDSU Combined Southern Conventional and Liberty Link Soybean Locations in North Dakota - Author, T. Helms.

Company/ Brand	Variety	Maturity ¹ (date)	Seed Oil (%)	Seed Protein (%)	Seed Yield			
					Milnor	Walcott	2014 Average	2-yr. Average
					------(bu/a)-----			
Asgrow ²	AG 0434	9/23	17.4	33.5	57.3	32.6	45.0	--
Asgrow ²	AG 0832	9/30	17.1	34.7	54.1	40.7	47.4	--
Brushvale	BS 1408	9/27	16.8	35.2	46.7	30.1	38.4	--
Brushvale	BS 149	10/5	15.6	36.7	49.5	31.4	40.4	--
Brushvale	BS 53	10/1	15.3	40.1	45.9	29.9	37.9	42.2
Brushvale	BS 78	9/30	16.7	36.5	51.8	28.6	40.2	--
Dyna-Gro	S08LL84	10/1	16.9	34.9	58.1	26.2	42.2	--
Dyna-Gro	S08RY23	9/30	17.2	34.3	60.3	34.3	47.3	--
Dyna-Gro	S09RY64	9/30	17.2	33.2	59.3	40.6	50.0	--
NDSU	Ashtabula	9/24	18.7	32.2	60.3	24.5	42.4	45.0
NDSU	ProSoy	9/30	16.3	37.4	47.8	25.7	36.8	42.3
NDSU	Sheyenne	9/28	17.3	33.3	60.2	31.9	46.0	49.9
NuTech	2062L	9/27	18.2	33.6	58.6	40.6	49.6	--
NuTech	2088L	10/2	17.5	35.2	61.3	30.2	45.7	--
NuTech	3103L	10/4	17.2	34.8	57.5	36.4	47.0	--
Peterson	L11-13N	10/4	17.0	35.4	50.2	37.3	43.8	48.7
Peterson	L13-15N	10/4	16.3	34.6	59.8	35.6	47.7	--
Peterson	L08-14	10/1	16.7	34.4	52.3	32.2	42.3	48.0
Proseed	LL3014LL	10/6	16.6	35.8	58.5	42.5	50.5	--
Proseed	PX413NLL	10/4	16.2	35.0	58.0	36.7	47.3	--
Richland	MK 1016	9/28	16.2	35.0	49.0	24.6	36.8	38.7
Richland	MK 9101	10/1	15.9	36.3	36.8	20.6	28.7	--
Richland	MK 0508	9/27	16.7	33.2	48.2	16.4	32.3	36.3
SDSU	Codington	9/29	17.4	35.9	49.3	29.1	39.2	43.8
SDSU	Duel	10/2	17.2	35.2	47.7	31.9	39.8	46.9
SDSU	Roberts	9/29	17.3	35.3	51.2	33.4	42.3	46.5
SDSU	Surge	9/28	17.0	36.6	50.9	25.3	38.1	39.9
Thunder	5411LL	10/2	17.4	34.9	55.5	37.5	46.5	49.8
Mean		9/30	16.9	35.1	53.4	31.7	42.5	44.5
CV %		2.0	1.2	1.4	7.3	9.5	8.4	--
LSD 0.10		2.5	3.2	1.9	10.1	22.6	14.8	--

¹Maturity is date of 95 percent brown or tan pods.

²These two varieties are Roundup Ready and were included as checks.

Table 12. 2014 Soybean - Dryland, Roundup Ready - Carrington - Authors, M. Ostlie, B. Schatz, K. Bjerke and L. Berg (Page 1 of 2).

Company/ Brand	Variety	Mat. Group	Maturity ¹ (date)	Pod Ht (cm)	Plant Ht (inch)	Seeds/ Pound (seeds)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield	
										2014	3-yr. Avg.
AgVenture	04E4	0.4	9/21	9	27	2,594	15.9	33.4	56.6	57.6	--
AgVenture	05B2	0.5	9/19	7	25	3,071	16.8	31.2	56.4	53.1	--
Channel	0508 R2	0.5	9/20	8	29	2,970	15.4	33.1	56.7	61.8	--
Dairyland	DSR-0305/R2Y	0.3	9/19	8	26	3,064	15.9	32.8	56.8	64.7	--
Dairyland	DSR-0514/R2Y	0.5	9/20	8	28	2,948	15.3	34.6	56.4	61.8	--
Dairyland	DSR-0711/R2Y	0.7	9/21	6	25	2,713	16.0	33.0	57.1	59.4	--
Dairyland	DSR-C918/R2Y	00.9	9/15	6	25	2,993	15.5	33.8	56.4	60.1	--
Dairyland	DST02-001/R2Y	0.2	9/19	7	23	3,091	15.9	33.1	56.7	58.6	--
Dyna-Gro	S02RY74	0.2	9/13	9	28	2,828	15.9	33.9	56.9	61.2	--
Dyna-Gro	S04RY55	0.4	9/20	7	30	2,846	15.0	34.5	56.5	61.0	--
Dyna-Gro	S06RY24	0.6	9/21	11	28	2,876	14.7	35.4	57.1	61.4	--
Hyland	HS 06RY26	0.6	9/20	13	28	2,939	15.0	33.2	57.4	58.8	--
Hyland	HX 01RY41	0.1	9/18	8	25	3,084	15.5	33.7	56.4	60.4	--
Hyland	HS 01RY02	0.1	9/19	7	30	2,548	15.5	32.8	57.6	59.7	44.7
Integra	20109	0.1	9/19	10	25	2,591	15.2	34.6	57.7	63.8	46.7
Integra	20300	0.3	9/19	9	28	2,926	15.1	34.1	56.9	64.0	50.8
Integra	20600	0.6	9/20	12	28	2,883	15.2	33.3	57.3	63.4	49.9
Integra	20456N	0.4	9/20	10	28	3,273	15.9	32.9	57.1	63.0	--
Integra	20646N	0.6	9/23	9	28	2,863	14.6	35.9	57.1	61.5	--
Legacy	LS0633 NRR2	0.6	9/22	9	26	3,163	14.9	34.2	56.6	55.6	--
Legacy	LS0634 NRR2	0.6	9/22	9	28	3,174	15.0	34.0	56.6	58.2	--
Legacy	LS0833 NRR2	0.8	9/24	8	31	2,908	15.3	33.5	56.6	58.7	--
Legacy	LS0834 NRR2	0.8	9/23	8	30	2,897	15.4	34.0	56.7	58.0	--
Legacy	LS0334 RR2	0.3	9/20	11	28	3,057	15.5	34.2	57.1	62.2	--
Legend	LS 04R560	0.4	9/20	12	28	3,227	16.0	33.2	57.6	62.2	--
Legend	LS 06R24N	0.6	9/22	9	27	2,922	14.8	35.2	56.9	54.7	--
Legend	LS 06R565N	0.6	9/19	8	27	3,003	15.5	33.6	56.3	56.1	--
Legend	LS03 R21	0.3	9/20	10	28	2,996	15.5	33.7	57.2	62.9	--
Legend	LS04R560N	0.4	9/19	11	26	3,308	16.1	33.4	57.4	62.1	--
Legend	LS 02R21	0.2	9/13	6	30	2,285	15.6	34.0	57.8	59.8	--
Mycogen	5B033R2	0.3	9/19	7	27	2,933	16.0	32.8	57.0	68.5	--
Mycogen	5B040R2	0.4	9/19	11	27	2,875	15.6	34.1	57.0	70.2	--
Mycogen	5B066R2	0.6	9/20	12	31	3,005	15.0	32.8	57.1	68.1	--
Mycogen	5B024R2	0.2	9/15	8	29	2,327	15.9	33.7	57.4	59.0	44.8
Nuseed	2051 RR2Y	0.5	9/20	11	30	2,932	15.2	32.9	57.1	67.9	--
Nuseed	2074 RR2YN	0.7	9/22	8	28	3,118	14.7	34.3	56.3	62.9	--
NuTech	6021	0.2	9/16	7	23	2,434	16.1	34.1	57.0	57.6	--
NuTech	6036	0.3	9/20	8	27	2,915	16.2	33.7	57.2	57.3	--
NuTech	6083	0.8	9/20	9	26	2,797	15.9	33.2	57.2	61.4	--
NuTech	7063	0.6	9/19	7	22	3,032	16.6	31.5	56.8	56.8	45.1
NuTech	6084R2	0.8	9/21	10	26	2,459	15.4	34.6	57.0	62.4	--
Peterson	13R03	0.3	9/19	9	25	2,963	15.2	33.5	57.2	65.4	--
Peterson	14R02	0.2	9/19	9	26	2,874	14.9	34.4	57.0	61.6	--
Peterson	14R06N	0.6	9/22	12	28	2,981	14.5	35.4	56.6	57.4	--
Peterson	15R04	0.4	9/21	10	27	3,320	15.9	32.6	56.9	60.3	--
Pioneer	PO08T22R2	00.8	9/15	6	27	2,569	16.3	33.9	57.0	47.0	--
Pioneer	PO1T23R	0.1	9/11	9	25	2,623	16.9	32.2	57.4	60.9	--
Mean			9/19	9	27	2,866	15.5	33.7	57.0	61.3	--
CV %			1.5	20.3	9.9	2.9	2.0	1.3	1.0	8.0	--
LSD 0.10			2.1	2	3	95	0.4	0.5	0.7	5.7	--

Table 12. 2014 Soybean - Dryland, Roundup Ready - Carrington - Authors, M. Ostlie, B. Schatz, K. Bjerke and L. Berg (Page 2 of 2).

Company/ Brand	Variety	Mat. Group	Maturity ¹ (date)	Pod		Seeds/ Pound (seeds)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield	
				Ht (cm)	Plant Ht (inch)					2014 ----- (bu/a)	3-yr. Avg. -----
Pioneer	PO3T68R2	0.3	9/16	10	25	2,762	15.5	33.4	57.1	61.3	--
Pioneer	PO5T24R	0.5	9/20	12	29	2,579	15.7	32.8	57.6	65.3	--
Pioneer	PO6T28R	0.6	9/20	10	29	2,675	16.1	34.0	57.5	60.5	--
Proseed	30-20	0.2	9/15	9	29	2,807	16.4	33.1	56.6	60.9	--
Proseed	30-60	0.6	9/20	8	25	2,737	15.6	33.6	57.5	59.2	--
Proseed	P2 11-50	0.5	9/20	12	30	2,933	15.4	32.9	57.1	69.7	54.6
Proseed	P2 20-30	0.3	9/20	9	28	2,938	15.3	33.7	56.8	64.2	--
REA	64G94	0.4	9/19	9	30	2,776	17.1	32.2	56.3	64.8	--
REA	65G22	0.5	9/20	11	30	2,989	14.9	33.1	56.9	65.8	--
REA	66G14	0.6	9/22	8	29	3,121	14.9	33.7	56.3	63.3	--
REA	62G22	0.2	9/11	10	30	2,305	15.8	33.5	57.5	56.0	--
Renk	RS033 R2	0.3	9/20	11	28	3,003	15.1	34.2	56.7	63.3	49.8
Renk	RS055 NR2	0.5	9/21	7	25	2,958	15.5	34.1	56.7	56.2	--
Thunder	3201 R2Y	0.1	9/11	9	30	2,474	16.0	32.9	57.0	62.5	44.0
Thunder	3205 R2Y	0.5	9/20	10	31	2,889	15.3	33.1	57.1	66.4	53.4
Thunder	33009 R2YN	00.9	9/15	5	22	3,356	16.7	31.8	56.9	53.0	41.5
Thunder	3303 R2Y	0.3	9/20	9	27	2,930	15.2	34.1	56.6	65.7	48.8
Thunder	3307 R2Y	0.7	9/18	11	26	2,474	14.8	35.4	57.6	64.7	--
Thunder	3503 R2Y	0.3	9/17	11	26	2,553	15.5	34.6	56.9	65.7	--
Thunder	3506 R2YN	0.6	9/22	8	27	3,092	14.9	34.3	56.5	63.6	--
Wensman	W 3024R2	0.2	9/14	10	27	2,851	15.6	34.1	57.3	62.3	--
Wensman	W 3032R2	0.4	9/20	10	27	3,007	15.1	33.8	56.4	65.1	50.1
Wensman	W 3062NR2	0.6	9/21	10	29	2,810	14.6	35.6	56.8	71.1	--
Wensman	W 30084R2	00.8	9/13	8	29	2,521	15.5	33.2	57.5	61.0	--
Mean			9/19	9	27	2,866	15.5	33.7	57.0	61.3	--
CV %			1.5	20.3	9.9	2.9	2.0	1.3	1.0	8.0	--
LSD 0.10			2.1	2	3	95	0.4	0.5	0.7	5.7	--

Planted: May 23. Harvested: Oct. 3. Previous crop: flax.

¹Maturity is date of 95 percent brown or tan pods

Table 13. 2014 Soybean - Irrigated, Roundup Ready - Carrington - Authors, M. Ostlie, B. Schatz, K. Bjerke and L. Berg (Page 1 of 2).

Company/ Brand	Variety	Mat. Group	Maturity ¹ (date)	Pod Ht (cm)	Plant Ht (inch)	Plant Lodge ² (0-9)	Seeds/ Pound (seeds)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield	
											2014	3-yr. Avg.
AgVenture	04E4	0.4	10/2	7	30	0	2,829	14.2	35.6	57.7	43.1	--
AgVenture	05B2	0.5	10/2	5	29	1	3,621	14.2	34.8	57.9	34.9	--
Channel	0508 R2	0.5	10/1	4	30	1	3,172	14.4	34.7	57.8	49.0	--
Dairyland	DSR-0404/R2Y	0.4	9/24	10	33	1	3,593	14.0	35.5	57.2	53.9	62.6
Dairyland	DSR-0514/R2Y	0.5	9/26	10	32	1	3,350	14.5	35.1	57.4	58.6	--
Dairyland	DSR-0711/R2Y	0.7	9/28	10	31	1	3,135	14.4	34.4	57.8	52.9	--
Dairyland	DSR-C918/R2Y	00.9	9/21	6	27	0	3,307	14.2	35.7	56.6	55.7	--
Dairyland	DST02-001/R2Y	0.2	9/26	7	28	0	3,553	13.9	35.5	57.1	51.4	--
Dyna-Gro	S02RY74	0.2	9/23	6	29	0	3,250	14.4	34.9	57.5	55.3	--
Dyna-Gro	S04RY55	0.4	9/27	8	33	0	3,252	14.0	36.0	57.3	57.4	--
Dyna-Gro	S06RY24	0.6	9/29	9	32	0	3,209	13.6	37.2	57.2	55.8	--
Integra	20300	0.3	9/25	7	29	0	3,417	14.2	35.3	57.3	50.8	--
Integra	20600	0.6	9/30	11	32	1	3,164	14.0	34.5	57.5	49.9	--
Integra	20456N	0.4	10/1	11	35	1	3,699	14.2	35.3	58.1	56.2	--
Integra	20646N	0.6	9/29	9	31	0	3,108	13.5	36.8	57.4	60.1	--
Legacy	LS0633 NRR2	0.6	10/5	6	30	4	3,583	13.8	35.6	57.6	40.0	--
Legacy	LS0634 NRR2	0.6	10/6	9	30	2	3,591	13.6	36.1	57.8	38.0	--
Legacy	LS0833 NRR2	0.8	10/6	7	32	2	3,045	13.6	35.6	58.3	38.4	--
Legacy	LS0834 NRR2	0.8	10/4	6	34	2	3,110	13.9	35.4	57.8	42.4	--
Legacy	LS0334 RR2	0.3	10/1	7	30	1	3,488	14.1	35.8	57.4	50.0	--
Nuseed	2051 RR2Y	0.5	9/27	11	36	1	3,100	13.9	34.8	57.6	58.0	--
Nuseed	2074 RR2YN	0.7	10/2	9	32	1	3,700	13.5	36.2	57.3	48.2	--
NuTech	6021	0.2	9/22	6	25	0	2,815	14.3	35.8	57.5	45.9	--
NuTech	6036	0.3	9/29	6	31	0	3,334	14.7	35.4	57.2	46.1	--
NuTech	6083	0.8	10/3	6	32	0	3,405	14.4	35.5	58.9	46.9	--
NuTech	7063	0.6	9/28	6	29	1	3,601	14.2	34.7	57.9	39.7	51.6
NuTech	6084R2	0.8	10/4	9	27	0	2,750	13.8	36.8	57.9	45.1	--
Peterson	13R03	0.3	9/28	8	30	1	3,443	14.1	35.3	57.4	48.6	--
Peterson	14R02	0.2	9/30	6	29	0	2,989	13.8	35.9	57.4	44.8	--
Peterson	14R06N	0.6	10/4	9	31	1	3,167	13.5	36.9	57.9	46.5	--
Peterson	15R04	0.4	10/3	7	29	2	3,463	14.4	35.2	58.2	45.2	--
Prairie	PB-0291R2	0.2	9/25	8	28	0	3,079	13.8	35.7	57.5	55.8	--
Prairie	PB-0441R2	0.4	9/24	10	33	1	3,558	14.1	35.2	57.2	55.4	60.7
Prairie	PB-0598R2	0.5	9/25	8	32	1	3,364	14.0	35.7	57.3	51.8	--
Prairie	PB-0777R2	0.7	10/5	7	35	2	3,090	13.5	36.2	58.0	54.3	--
REA	62G22	0.2	9/23	8	34	0	2,540	14.4	34.9	58.1	52.3	--
REA	64G94	0.4	9/30	6	31	4	3,191	15.1	34.8	57.9	40.5	--
REA	65G22	0.5	9/30	8	33	2	3,079	14.0	34.7	57.3	56.3	61.5
REA	66G14	0.6	10/3	9	26	2	3,499	13.4	35.5	58.0	41.7	--
Renk	RS033 R2	0.3	9/27	8	29	1	3,413	13.9	35.7	57.6	46.7	60.3
Renk	RS055 NR2	0.5	9/30	11	31	1	3,177	14.3	35.2	57.5	50.0	--
Thunder	3201 R2Y	0.1	9/20	9	35	1	2,785	14.6	34.2	57.9	61.1	60.4
Thunder	3205 R2Y	0.5	9/30	10	32	1	3,089	14.2	34.9	57.7	55.5	62.1
Thunder	33009 R2YN	00.9	9/19	6	30	1	3,727	14.9	33.6	57.6	50.2	55.3
Thunder	3303 R2Y	0.3	9/24	8	31	0	3,487	13.9	35.6	57.6	56.0	59.7
Thunder	3307 R2Y	0.7	10/1	9	31	1	2,795	13.2	37.0	57.9	57.1	--
Thunder	3503 R2Y	0.3	9/24	10	31	0	2,726	13.5	36.9	57.2	59.0	--
Thunder	3506 R2YN	0.6	10/3	10	31	1	3,631	13.4	36.4	57.6	47.8	--
Mean			9/28	7.8	31	1	3,261	14.0	35.5	57.6	50.2	59.6
CV %			2	34.2	9.4	105	3.1	2.1	1.3	0.6	10.2	--
LSD 0.10			2.8	3.1	3	1	118	0.3	0.5	0.4	5.9	--

Table 13. 2014 Soybean - Irrigated, Roundup Ready - Carrington - Authors, M. Ostlie, B. Schatz, K. Bjerke and L. Berg (Page 2 of 2).

Company/ Brand	Variety	Mat.		Pod	Plant	Plant	Seeds	Seed	Seed	Test	Seed Yield	
		Group	Maturity ¹	Ht	Ht	Lodge ²	Pound	Oil	Protein	Weight	2014	3-yr Avg.
				(cm)	(inch)	(0-9)	(seeds)	(%)	(%)	(lb/bu)	---(bu/a)---	
Wensman	W 3009R2	00.9	9/22	8	30	1	3,310	14.7	34.1	57.8	62.7	--
Wensman	W 3024R2	0.2	9/21	6	28	0	3,259	14.0	35.2	57.1	50.8	--
Wensman	W 3032R2	0.4	9/25	7	30	0	3,501	13.9	35.4	57.2	53.4	62.0
Wensman	W 3062NR2	0.6	9/30	7	29	1	3,159	13.7	36.9	57.6	51.2	--
Mean			9/28	7.8	31	1	3,261	14.0	35.5	57.6	50.2	59.6
CV %			2.0	34.2	9.4	105	3.1	2.1	1.3	0.6	10.2	--
LSD 0.10			2.8	3.1	3	1	118	0.3	0.5	0.4	5.9	--

Planted: May 30. Harvested: Oct. 21. Previous crop: barley.

¹Maturity is date of 95 percent brown or tan pods.²Lodging score: 1-upright, 9-flat on ground.**Table 14. 2014 Soybean - Dryland, Conventional and Liberty Link - Carrington - Authors, M. Ostlie, B. Schatz, K. Bjerke and L. Berg.**

Company/ Brand	Variety	Mat.		Pod	Plant	Seeds/	Seed	Seed	Test	Seed Yield	
		Group	Maturity ¹	Ht	Ht	Pound	Oil	Protein	Weight	2014	3-yr Avg.
			(date)	(cm)	(inch)	(seeds)	(%)	(%)	(lb/bu)	---(bu/a)---	
Asgrow ²	AG 00932	00.9	9/14	9	31	2,718	14.6	33.9	56.9	49.0	--
NDSU	Astabula	0.4	9/18	9	32	3,072	16.4	32.8	57.0	54.1	47.5
NDSU	Cavalier	00.9	9/14	6	26	2,736	15.4	33.2	57.3	44.8	43.5
NDSU	ND1406HP	0.6	9/18	7	27	2,718	14.2	37.1	57.4	41.8	--
NDSU	Sheyenne	0.7	9/20	7	31	3,134	15.5	33.0	57.6	44.2	45.0
NDSU	Traill	0.0	9/16	7	27	2,885	15.3	34.6	57.6	42.2	40.7
Richland	MK0205	0.2	9/21	6	28	5,771	15.9	32.8	57.2	37.3	30.9
Richland	MK0249	0.2	9/20	6	23	4,535	15.1	32.6	56.3	43.3	44.5
Richland	MK0508	0.8	9/24	10	27	5,965	14.6	33.1	57.1	41.0	41.3
Thunder	5205 LLN	0.5	9/20	7	25	2,619	15.0	35.1	57.6	52.6	--
Thunder	5303 LLN	0.3	9/18	8	26	2,657	15.5	35.4	57.0	52.1	--
Thunder	5401 LL	0.1	9/19	9	28	2,701	15.2	33.7	56.3	47.0	--
Thunder	5411 LLN	1.1	9/24	9	31	2,776	15.2	35.4	56.2	51.6	--
Mean			9/18	8	27	3,305	15.5	33.7	57.0	46.5	41.9
CV %			1.3	27.0	9.5	5.7	2.0	2.8	0.6	8.8	--
LSD 0.10			1.7	NS	3	224	0.4	1.1	0.4	4.9	--

Planted: May 28. Harvested: Oct. 7. Previous crop: flax.

¹Maturity is date of 95 percent brown or tan pods.²Asgrow AG 00932 included as a Roundup Ready check.**Table 15. 2014 Soybean - Irrigated, Conventional - Carrington - Authors, M. Ostlie, B. Schatz, K. Bjerke and L. Berg.**

Company/ Brand	Variety	Mat.		Pod	Plant	Seeds/	Seed	Seed	Test	Seed Yield	
		Group	Maturity ¹	Ht	Ht	Pound	Oil	Protein	Weight	2014	3-Yr Avg.
			(date)	(cm)	(inch)	(seeds)	(%)	(%)	(lb/bu)	---(bu/a)---	
Asgrow ²	AG 00932	00.9	9/20	6	34	2,860	14.2	35.1	58.5	49.1	--
NDSU	Astabula	0.4	9/23	7	37	3,423	15.4	33.9	57.8	53.7	57.1
NDSU	Cavalier	00.9	9/20	7	35	2,881	14.7	34.7	57.6	47.5	53.5
NDSU	ND1406HP	0.6	9/28	6	35	2,750	13.4	38.5	57.3	38.5	--
NDSU	Sheyenne	0.7	9/29	7	37	3,195	14.6	35.1	57.8	44.4	56.2
NDSU	Traill	00.0	9/20	5	33	3,074	14.4	35.9	58.9	48.1	52.5
Mean			9/23	6	35	3,184	14.7	35.2	57.9	46.9	54.8
CV %			1.2	29.1	5.1	3.4	1.7	1	0.7	8.8	--
LSD 0.10			1.7	2.1	2.1	129	0.3	0.4	0.5	4.9	--

Planted: May 30. Harvested: Oct. 8. Previous crop: soybean.

¹Maturity is date of 95 percent brown or tan pods.²Asgrow AG 00932 included as a Roundup Ready check.

Table 16. 2014 Soybean - Dryland, Roundup Ready - Dazey (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard (Page 1 of 2).

Company/ Brand	Variety	Mat. Group	Pod Ht (cm)	Plant Ht (inch)	Maturity (date)	Seeds/ Pound (seeds)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield		
										2014	2-yr. Avg.	3-yr. Avg.
										----- (bu/a) -----		
AgVenture	04E4	0.4	5	25	9/19	2,421	15.8	33.8	56.8	51.1	--	--
AgVenture	08E5	0.8	6	25	9/23	2,663	15.5	34.6	57.4	51.0	--	--
AgVenture	05B2	0.5	5	24	9/20	2,790	16.2	32.1	56.5	51.6	--	--
Chanel	0508 R2	0.5	7	25	9/20	2,809	15.3	34.1	56.7	48.8	--	--
Dairyland	DSR-0514/R2Y	0.5	6	25	9/19	2,769	15.4	34.6	56.8	55.2	--	--
Dairyland	DSR-0711/R2Y	0.7	5	27	9/21	2,566	15.7	34.1	56.0	47.1	--	--
Dairyland	DSR-0904/R2Y	0.9	5	27	9/22	2,608	15.3	34.4	56.6	62.6	57.3	57.1
Dyna-Gro	S07RY45	0.7	5	27	9/23	2,851	15.2	34.5	56.8	59.3	--	--
Dyna-Gro	S08RY23	0.8	6	26	9/23	2,652	15.3	34.3	56.9	59.0	56.7	57.8
Dyna-Gro	S09RY64	0.9	7	28	9/24	2,789	15.0	34.4	57.4	61.2	56.9	--
Hyland	HS 06RY26	0.6	8	31	9/19	2,701	14.9	34.1	57.0	60.0	--	--
Hyland	HX 05RYS25	0.5	7	29	9/19	2,631	15.0	33.8	56.8	60.4	55.7	55.3
Integra	20600	0.6	6	27	9/20	2,780	15.1	33.5	57.1	60.2	--	--
Integra	20815N	0.8	5	28	9/23	2,618	14.8	35.4	56.3	59.4	58.7	--
Integra	20915N	0.9	5	28	9/24	2,867	14.8	34.3	57.3	61.3	--	--
Legacy	LS0633 NRR2	0.6	6	27	9/20	2,881	14.8	34.8	56.4	54.2	--	--
Legacy	LS0634 NRR2	0.6	5	27	9/21	2,913	14.8	34.7	56.6	52.6	--	--
Legacy	LS0833 NRR2	0.8	5	29	9/24	2,657	15.1	34.7	57.3	55.6	--	--
Legacy	LS0834 NRR2	0.8	7	29	9/24	2,700	14.9	34.8	57.0	58.5	--	--
Legacy	LS1134 NRR2	1.1	7	32	9/25	2,749	15.1	34.6	57.3	55.4	--	--
Legacy	LS1314 NRR2	1.3	7	29	9/26	2,660	14.7	34.4	56.0	54.5	--	--
Mycogen	5B040R2	0.4	7	23	9/18	2,773	15.2	34.3	56.5	55.1	54.3	--
Mycogen	5B066R2	0.6	7	27	9/20	2,690	15.1	33.4	56.9	59.3	57.6	58.9
Mycogen	5B081R2	0.8	6	28	9/21	2,519	14.0	35.8	57.3	50.1	--	--
Nuseed	2051 RR2Y	0.5	6	29	9/20	2,694	14.9	34.3	57.0	57.6	--	--
Nuseed	2074 RR2YN	0.7	6	24	9/20	2,864	15.0	34.9	56.2	52.7	--	--
NuTech	6083	0.8	7	25	9/21	2,581	15.7	34.4	57.4	55.2	--	--
NuTech	7063	0.6	6	23	9/18	2,726	16.5	31.9	56.8	53.7	48.2	48.8
NuTech	7104	1.0	6	26	9/24	2,400	15.7	35.2	56.4	55.7	--	--
NuTech	6084R2	0.8	6	24	9/22	2,310	15.3	34.9	57.0	48.7	--	--
Peterson	14R06N	0.6	6	28	9/21	2,667	14.3	36.4	57.0	55.4	--	--
Peterson	14R09N	0.9	5	30	9/24	2,812	14.6	34.9	57.1	60.4	--	--
Peterson	15R04	0.4	7	29	9/21	3,132	15.3	34.1	57.2	57.9	--	--
Peterson	15R07N	0.7	5	27	9/22	2,945	15.4	34.3	57.1	57.7	--	--
Prairie	PB-0441R2	0.4	5	25	9/18	2,705	15.3	34.0	56.7	55.7	52.6	57.1
Prairie	PB-0598R2	0.5	6	27	9/19	2,721	15.4	34.7	56.7	56.4	--	--
Prairie	PB-0777R2	0.7	6	28	9/24	2,705	15.3	34.0	57.2	56.8	52.3	--
Prairie	PB-0863R2	0.8	6	28	9/23	2,721	15.4	34.7	57.0	60.2	59.4	58.7
Proseed	30-60	0.6	5	25	9/22	2,609	15.0	35.0	57.1	53.9	--	--
Proseed	30-80	0.8	6	29	9/24	2,700	14.7	35.3	57.5	60.7	--	--
Proseed	P2 11-50	0.5	6	28	9/19	2,707	15.0	34.1	56.8	59.4	55.4	57.4
Proseed	P2 20-30	0.3	5	24	9/19	2,845	15.2	34.1	56.8	52.4	52.4	54.1
REA	64G94	0.4	6	26	9/19	2,540	17.0	32.4	56.3	49.8	--	--
Mean			6	27	9/21	2,704	15.1	34.4	56.9	55.7	54.5	55.0
CV %			24.3	8.8	0.9	2.8	1.7	1.5	0.8	7.2	--	--
LSD 0.10			NS	2.7	1.3	89	0.3	0.6	0.5	4.7	--	--

Table 16. 2014 Soybean - Dryland, Roundup Ready - Dazey (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard (Page 2 of 2).

Company/ Brand	Variety	Mat. Group	Pod Ht (cm)	Plant Ht (inch)	Maturity (date)	Seeds/ Pound (seeds)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield		
										2014	2-yr. Avg. (bu/a)	3-yr. Avg.
REA	65G22	0.5	7	28	9/20	2,736	15.1	33.5	56.6	57.2	52.9	55.6
REA	66G14	0.6	6	28	9/22	2,869	14.8	34.5	56.7	54.1	52.3	--
REA	69G13	0.9	5	25	9/22	2,640	15.2	34.4	56.7	56.1	51.2	--
REA	69G14	0.9	7	28	9/24	2,573	15.2	34.3	56.9	62.2	58.3	--
REA	R0815	0.8	6	26	9/23	2,791	15.3	34.4	56.9	60.4	--	--
Renk	RS033 R2	0.3	6	25	9/19	2,889	14.9	34.6	57.2	51.8	51.1	55.7
Renk	RS055 NR2	0.5	7	27	9/20	2,803	15.2	34.3	56.9	54.0	--	--
Thunder	3205 R2Y	0.5	5	26	9/20	2,699	15.0	33.6	56.8	57.3	55.0	56.3
Thunder	3307 R2Y	0.7	6	25	9/22	2,304	14.3	35.8	56.8	52.1	51.6	55.0
Thunder	3408 R2YN	0.8	6	28	9/23	2,626	14.8	34.9	57.2	63.9	59.4	--
Thunder	3506 R2YN	0.6	5	25	9/21	2,940	14.9	34.4	56.5	55.3	--	--
Wensman	W 3032R2	0.4	6	26	9/19	2,713	15.0	34.6	57.1	53.4	51.1	53.7
Wensman	W 3062NR2	0.6	5	28	9/21	2,631	14.1	36.5	57.1	53.0	52.9	--
Wensman	W 3080NR2	0.8	6	29	9/23	2,826	15.1	34.8	56.9	57.1	--	--
Wensman	W 3090NR2	0.8	6	27	9/22	2,615	15.1	34.6	56.8	53.7	54.2	54.4
Mean			6	27	9/21	2,704	15.1	34.4	56.9	55.7	54.5	55.0
CV %			24.3	8.8	0.9	2.8	1.7	1.5	0.8	7.2	--	--
LSD 0.10			NS	2.7	1.3	89	0.3	0.6	0.5	4.7	--	--

Planted: May 24. Harvested: Oct. 15. Previous crop: spring wheat.

¹Maturity is date of 95 percent brown or tan pods.

Table 17. 2014 Soybean - Dryland, Conventional and Liberty Link - Dazey (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard.

Company/ Brand	Variety	Mat. Group	Maturity ¹ (date)	Pod Ht (cm)	Plant Ht (inch)	Seeds/ Pound (seeds)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield	
										2014	3-yr. Avg. (bu/a)
Asgrow ²	AG 00932	00.9	9/10	6	27	2,478	15.3	35.1	57.1	47.5	--
NDSU	Astabula	0.4	9/18	7	26	2,702	17.2	32.7	56.6	56.8	47.8
NDSU	Cavalier	00.9	9/11	5	22	2,546	16.5	33.5	56.8	39.5	39.4
NDSU	ND1406HP	0.6	9/18	7	26	2,556	14.9	37.0	56.9	41.7	--
NDSU	Sheyenne	0.7	9/19	6	27	2,817	15.8	33.7	57.4	60.1	51.9
NDSU	Traill	00.0	9/14	4	24	2,694	15.6	35.2	57.5	45.6	40.1
Richland	MK0205	0.2	9/19	5	27	4,956	15.6	35.1	57.9	47.2	42.1
Richland	MK0249	0.2	9/15	6	25	4,122	16.3	32.2	56.7	48.9	42.1
Richland	MK0508	0.8	9/21	5	27	5,076	14.8	34.0	57.6	44.3	46.5
Richland	MK1016	1.0	9/20	6	30	5,389	14.6	34.6	57.6	47.4	40.0
Mean			9/16	6	25	3,213	16.0	34.1	56.9	48.1	43.7
CV %			0.9	19.0	11.2	2.7	1.6	1.4	0.9	8.0	--
LSD 0.10			1.2	1.3	3.3	104	0.3	0.6	0.6	4.6	--

Planted: May 24. Harvested: Oct. 15. Previous crop: spring wheat.

¹Maturity is date of 95 percent brown or tan pods.

²Asgrow AG 00932 included as a Roundup Ready check.

Table 18. 2014 Soybean - Dryland, Conventional, Organic - Carrington - Authors, S. Zwinger and S. Schaubert.

Company/ Brand	Variety	Mat. Group	Plant Lodge ¹ (0-9)	Pod Height (cm)	Plant Height (inch)	Seeds/ Pound (seeds)	Test Weight (lb/bu)	Seed Yield	
								2014	2-Yr. Avg.
NDSU	Ashtabula	0.4	1	8	30	3,081	57.8	42.0	32.1
NDSU	Cavalier	0.9	1	6	24	2,936	57.4	29.3	27.6
NDSU	ND1406HP	0.6	1	9	27	2,740	58.4	35.9	--
NDSU	Sheyenne	0.7	0	9	29	3,054	58.2	36.2	29.4
NDSU	Traill	0	1	6	25	2,852	58.5	29.0	25.8
Mean			1	7	26	3,415	58.2	36.5	28.7
CV %			108.2	17.4	9.4	12.4	0.6	10.2	--
LSD 0.10			0.9	1.5	3	513	0.4	4.5	--

Planted: May 21. Harvested: Oct. 8. Previous crop: spring wheat.

¹Lodging score: 0-upright, 9-flat on ground.

Table 19. 2014 Soybean - Dryland, Roundup Ready - LaMoure (Carrington REC) - Authors, T. Helms and B. Schatz (Page 1 of 2).

Company/ Brand	Variety	Maturity		Seed Oil (%)	Seed Protein (%)	Seed Yield		
		Group	Maturity ¹ (date)			2014	2-yr. Avg.	3-yr. Avg.
						----- (bu/a) -----		
AgVenture	04E4	0.4	9/23	17.8	33.2	49.5	--	--
AgVenture	08E5	0.8	9/24	18.1	33.1	59.1	--	--
AgVenture	09E1	0.9	10/3	17.6	35.7	72.4	--	--
AgVenture	05B2	0.5	9/22	18.2	32.7	46.3	--	--
AgVenture	12B2	1.2	9/29	17.7	34.2	65.5	--	--
Channel	1108 R2	1.1	10/4	16.9	34.1	76.0	--	--
Dairyland	DSR-0711/R2Y	0.7	9/24	18.2	33.2	58.8	--	--
Dairyland	DSR-0904/R2Y	0.9	9/26	17.4	33.1	72.6	48.5	46.3
Dairyland	DSR-1120/R2Y	1.1	10/2	18.0	33.7	68.9	47.6	--
Dyna-Gro	S07RY45	0.7	9/28	17.9	33.1	77.3	--	--
Dyna-Gro	S08RY23	0.8	9/28	17.5	33.6	59.8	--	--
Dyna-Gro	S09RY64	0.9	10/2	16.8	33.2	78.2	53.1	--
Integra	20815N	0.8	9/29	16.6	35.8	64.6	43.8	--
Integra	20915N	0.9	9/30	16.9	34.2	64.5	--	--
Integra	21115N	1.1	9/27	16.9	35.6	71.4	--	--
Legacy	LS1134 NRR2	1.1	10/5	17.2	34.8	77.5	--	--
Legacy	LS1314 NRR2	1.3	10/4	17.4	32.3	70.8	--	--
Legacy	LS0634 NRR2	0.6	9/23	16.9	34.6	57.4	--	--
Legacy	LS0833 NRR2	0.8	10/2	17.1	35.7	74.0	--	--
Mycogen	5B066R2	0.6	9/24	16.9	34.9	59.0	43.0	43.0
Mycogen	5B081R2	0.8	9/24	16.2	36.1	69.7	--	--
Mycogen	5B040R2	0.4	9/23	18.0	33.5	72.5	47.8	--
Nuseed	2074 RR2YN	0.7	9/24	15.7	35.8	52.6	--	--
Nuseed	2093 RR2YN	0.9	9/28	16.8	35.6	75.8	51.7	--
Nuseed	2122 RR2YN	1.2	9/29	17.5	34.8	66.3	46.0	--
NuTech	6083	0.8	9/24	18.2	33.9	72.3	--	--
NuTech	6112	1.1	10/2	15.8	35.4	69.8	--	--
NuTech	7063	0.6	9/22	18.9	31.8	50.3	37.2	39.1
NuTech	7104	1.0	10/3	18.0	35.0	65.5	--	--
NuTech	6084R2	0.8	9/25	17.1	36.0	57.5	--	--
Peterson	14R06N	0.6	9/25	16.6	36.0	63.1	--	--
Peterson	14R09N	0.9	10/4	17.3	33.5	81.1	--	--
Peterson	14R11N	1.1	10/2	17.6	35.3	75.1	48.4	--
Peterson	15R07N	0.7	10/1	18.0	32.9	84.8	--	--
Proseed	30-60	0.6	9/25	18.0	34.5	51.1	--	--
Proseed	30-80	0.8	9/28	17.2	34.2	68.7	--	--
Proseed	P2 11-50	0.5	9/24	17.1	34.0	77.2	51.4	--
REA	66G14	0.6	9/24	16.9	33.5	67.6	46.2	--
REA	69G13	0.9	9/27	17.4	33.2	66.9	45.5	42.6
REA	69G14	0.9	10/2	16.9	34.9	76.2	51.1	--
REA	71G14	1.1	9/29	17.6	35.1	62.9	44.4	--
REA	R0815	0.8	9/29	17.5	33.7	70.3	--	--
REA	R1215	1.2	10/4	16.7	34.6	76.3	--	--
Thunder	3114 R2Y	1.4	10/4	16.8	34.9	76.3	51.1	48.9
Thunder	3307 R2Y	0.7	9/24	17.1	33.5	68.8	--	--
Thunder	3408 R2YN	0.8	9/27	16.8	35.9	69.0	--	--
Thunder	3506 R2YN	0.6	9/24	17.2	34.2	68.2	--	--
Thunder	3511 R2YN	1.1	10/1	17.1	34.8	61.3	--	--
Mean			9/28	17.3	34.3	68.1	47.8	44.5
CV %			3.0	--	--	15.1	--	--
LSD 0.10			3.9	--	--	16.3	--	--

Table 19. 2014 Soybean - Dryland, Roundup Ready - LaMoure (Carrington REC) - Authors, T. Helms and B. Schatz (Page 2 of 2).

Company/ Brand	Variety	Maturity		Seed Oil	Seed Protein	Seed Yield		
		Group	Maturity ¹ (date)			2014	2-yr. Avg.	3-yr. Avg.
Wensman	W 3062NR2	0.6	9/24	16.6	35.6	67.3	46.5	--
Wensman	W 3080NR2	0.8	9/28	17.4	34.1	69.3	--	--
Wensman	W 3090NR2	0.8	10/1	17.1	33.8	78.9	53.0	47.2
Wensman	W 3102NR2	1.0	10/1	16.7	34.5	73.6	--	--
Wensman	W 3121NR2	1.2	10/3	16.9	34.5	76.7	52.4	--
Mean			9/28	17.3	34.3	68.1	47.8	44.5
CV %			3.0	--	--	15.1	--	--
LSD 0.10			3.9	--	--	16.3	--	--

Planted: May 17. Harvested: Oct. 16.

¹Maturity is date of 95 percent brown or tan pods.**Table 20. 2014 Soybean - Dryland, Conventional and Liberty Link - LaMoure (Carrington REC) - Authors, T. Helms and B. Schatz.**

Company/ Brand	Variety	Maturity		Seed Oil	Seed Protein	Seed Yield	
		Group	Maturity ¹ (date)			2014	3-yr. Avg.
Asgrow ²	AG 0434 RR	0.4	9/17	16.9	34.3	52.0	--
Asgrow ²	AG 0832 RR	0.8	9/30	17.7	34.0	75.7	--
NDSU	Ashtabula	0.4	9/20	19.7	32.5	56.4	35.4
NDSU	ND1100S	0.0	9/15	18.5	32.0	56.4	--
NDSU	ND1406HP	0.6	9/21	16.2	38.2	53.9	35.0
NDSU	ProSoy	0.8	9/26	16.2	38.2	52.8	--
NDSU	Sheyenne	0.7	9/23	18.1	33.1	64.6	44.2
Richland	MK0249	0.2	9/19	18.5	31.9	50.5	--
Richland	MK0508	0.8	9/23	17.5	32.8	42.5	31.2
Richland	MK1016	1.0	9/23	17.3	33.6	57.0	34.7
Richland	MK9101	1.1	10/4	16.3	35.9	56.5	35.9
Mean			9/23	17.5	34.2	56.2	36.1
CV %			8.5	--	--	10.7	--
LSD .10			2.7	--	--	8.6	--

Planted: May 17. Harvested: Oct. 16.

¹Maturity is date of 95 percent brown or tan pods.²Asgrow AG 0434 and AG 0832 included as a Roundup Ready checks.

Table 21. 2014 Soybean - Dryland, Roundup Ready - Wishek (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard.

Company/ Brand	Variety	Maturity Group	Seed Oil (%)	Seed Protein (%)	Seeds/ Pound	Test Weight (lb/bu)	Seed Yield ----- (bu/a) -----	3-yr. Avg.
Channel	1108 R2	1.1	14.8	35.2	3,136	56.9	56.2	--
Integra	20600	0.6	14.7	34.5	2,919	56.3	68.3	43.3
Integra	20646N	0.6	14.3	36.7	2,987	56.2	58.6	--
Integra	20815N	0.8	14.9	35.4	2,912	56.6	61.2	--
Integra	20915N	0.9	14.7	35.1	3,227	56.5	54.9	--
Mycogen	5B081R2	0.8	14.8	34.9	2,835	57.0	51.4	--
Mycogen	5N091R2	0.9	14.6	35.5	2,833	56.4	64.9	--
Mycogen	5B066R2	0.6	15.3	35.4	2,901	56.3	60.3	--
Nuseed	2051 RR2Y	0.5	14.7	34.6	2,844	56.4	57.5	--
Nuseed	2074 RR2YN	0.7	14.7	36.2	3,301	55.9	59.4	--
Nuseed	2093 RR2YN	0.9	15.2	35.0	2,927	56.2	56.2	--
NuTech	6083	0.8	16.7	32.4	2,809	56.6	56.0	--
NuTech	6112	1.1	16.2	34.0	3,081	57.4	53.1	--
NuTech	6143	1.4	15.2	35.7	3,159	57.2	57.7	38.2
NuTech	7104	1.0	15.5	35.1	2,889	56.0	55.1	--
NuTech	7157	1.5	13.9	35.3	3,098	56.6	54.1	--
NuTech	6084R2	0.8	14.7	34.9	2,545	56.5	57.9	--
NuTech	7063	0.6	15.4	33.6	2,876	55.5	52.9	--
Peterson	14R06N	0.6	14.3	36.6	3,118	56.6	55.2	--
Peterson	14R09N	0.9	14.7	35.4	3,268	56.7	54.8	--
Peterson	14R11N	1.1	14.8	34.6	3,130	57.1	56.5	--
Peterson	15R07N	0.7	14.6	36.4	3,348	56.6	59.3	--
Proseed	30-60	0.6	14.5	34.8	2,885	56.8	57.6	--
Proseed	30-80	0.8	15.4	34.8	2,908	56.6	59.4	--
Proseed	P2 11-50	0.5	15.0	35.3	2,848	56.3	63.9	44.5
REA	69G13	0.9	14.7	35.3	2,854	56.4	64.9	39.6
REA	69G14	0.9	15.0	34.5	2,801	56.4	65.7	--
REA	71G14	1.1	14.8	35.0	2,889	57.2	63.5	--
REA	R0815	0.8	14.9	34.6	3,278	56.4	57.3	--
REA	R1215	1.2	14.8	35.3	3,467	57.0	62.7	--
REA	66G14	0.6	14.3	35.4	3,267	56.1	54.4	--
Thunder	3114 R2Y	1.4	14.9	34.1	3,385	57.1	57.0	38.7
Thunder	3205 R2Y	0.5	14.7	35.4	2,903	56.6	64.0	--
Thunder	3307 R2Y	0.7	14.1	35.7	2,554	56.6	64.0	--
Thunder	3408 R2YN	0.8	14.9	35.0	2,923	56.4	64.5	--
Thunder	3506 R2YN	0.6	15.2	35.0	3,316	56.0	54.3	--
Thunder	3511 R2YN	1.1	14.4	35.1	3,178	56.9	53.7	--
Wensman	W 3076R2	0.7	14.3	36.8	2,944	56.3	57.1	43.2
Wensman	W 3080NR2	0.8	15.0	35.4	3,247	56.6	58.6	--
Wensman	W 3090NR2	0.8	14.9	34.6	2,807	56.7	58.3	41.0
Wensman	W 3102NR2	1	15.2	35.4	3,237	56.7	61.9	--
Wensman	W 3121NR2	1.2	14.4	35.2	3,190	57.2	51.8	--
Wensman	W 3062NR2	0.6	14.5	36.7	2,970	56.3	63.2	--
Mean			14.9	35.2	3,013	56.6	58.2	41.2
CV %			2.8	1.8	4.2	0.7	12.5	--
LSD 0.10			0.5	0.7	149	0.5	8.6	--

Planted: May 22. Harvested: Oct. 21. Previous crop: spring wheat.

Table 22. 2014 Soybean - Irrigated, Roundup Ready - Oakes (Carrington REC) - Authors, B. Schatz, L. Besemann and T. Indergaard (Page 1 of 2).

Company/ Brand	Variety	Maturity		Plant Height	Plant Lodge ²	Seed Oil	Seed Protein	Test Weight	Seed Yield	
		Group	Maturity ¹ (date)						2014	2-yr. Avg.
Channel	1108 R2	1.1	9/24	24	3	18.4	34.8	55.6	57.3	--
Dairyland	DSR-0711/R2Y	0.7	9/20	35	0	18.8	33.5	56.1	63.3	--
Dairyland	DSR-0904/R2Y	0.9	9/20	32	0	18.3	34.3	55.6	69.6	73.7
Dairyland	DSR-1120/R2Y	1.1	9/25	30	4	18.6	34.7	55.3	63.2	--
Dairyland	DSR-1340/R2Y	1.3	9/24	30	3	17.5	34.1	55.2	67.7	--
Dyna-Gro	S09RY64	0.9	9/24	29	2	17.6	34.4	55.9	67.4	--
Dyna-Gro	S12RY44	1.2	9/23	28	1	17.7	35.5	56.0	68.5	--
Dyna-Gro	S14RY95	1.4	9/23	32	1	18.4	34.0	55.8	65.8	--
Integra	20815N	0.8	9/23	26	2	17.7	34.4	56.1	70.2	--
Integra	20915N	0.9	9/24	33	1	17.8	34.3	55.4	73.7	--
Integra	21115N	1.1	9/23	25	1	17.6	35.7	56.0	66.0	--
Legacy	LS0634 NRR2	0.6	9/21	35	0	17.8	35.3	54.9	66.3	--
Legacy	LS0833 NRR2	0.8	9/23	27	2	18.0	34.2	56.1	70.6	--
Legacy	LS1134 NRR2	1.1	9/25	24	4	18.4	34.5	55.6	59.4	--
Legacy	LS1314 NRR2	1.3	9/25	31	2	18.0	33.9	54.9	68.2	--
Nuseed	2074 RR2YN	0.7	9/21	34	0	17.7	35.0	54.9	67.2	--
Nuseed	2093 RR2YN	0.9	9/23	29	1	17.8	34.5	56.2	69.9	--
Nuseed	2122 RR2YN	1.2	9/23	29	1	18.0	35.8	56.4	64.7	--
NuTech	6083	0.8	9/19	30	0	18.6	34.6	56.1	69.1	--
NuTech	6112	1.1	9/23	30	1	17.2	35.2	56.3	65.5	--
NuTech	6143	1.4	9/24	30	2	17.2	35.1	56.0	64.5	--
NuTech	7104	1.0	9/23	29	3	18.8	35.1	55.2	61.9	--
NuTech	7157	1.5	9/23	32	2	18.9	34.3	55.2	66.5	--
NuTech	6084R2	0.8	9/20	36	0	18.3	35.2	55.3	67.9	--
NuTech	7063	0.6	9/20	30	0	18.7	32.6	55.3	70.0	--
Peterson	14R09N	0.9	9/25	27	2	17.7	34.0	55.3	67.6	--
Peterson	14R11N	1.1	9/23	29	1	17.8	35.2	56.0	68.1	--
Peterson	14R13	1.3	9/22	39	0	18.1	34.5	56.0	67.6	--
Proseed	30-11	1.1	9/22	34	1	17.9	35.0	55.5	70.5	--
Proseed	30-12	1.2	9/23	31	1	18.3	35.2	55.3	67.7	--
Proseed	P2 20-90	0.9	9/24	26	3	17.8	35.0	55.8	62.6	69.2
REA	69G13	0.9	9/21	34	0	18.2	34.3	55.6	69.1	73.1
REA	66G14	0.6	9/20	34	0	17.8	34.7	55.0	63.2	--
REA	69G14	0.9	9/23	29	1	18.1	34.1	55.7	68.8	--
REA	71G14	1.1	9/24	27	2	18.0	34.5	56.3	65.9	--
REA	R0815	0.8	9/22	26	1	18.2	34.2	55.8	69.4	--
REA	R1215	1.2	9/25	29	2	17.1	35.5	55.3	65.8	--
Thunder	3114 R2Y	1.4	9/25	31	5	17.1	35.1	55.5	65.3	73.9
Thunder	3307 R2Y	0.7	9/21	27	0	17.3	35.7	56.0	71.6	--
Thunder	3408 R2YN	0.8	9/23	28	1	18.0	34.4	55.9	71.4	--
Thunder	3506 R2YN	0.6	9/21	33	0	17.8	35.1	54.9	70.6	--
Thunder	3511 R2YN	1.1	9/24	24	5	18.3	34.7	56.0	60.4	--
Wensman	W 3062NR2	0.6	9/19	25	0	16.8	36.9	55.3	64.5	--
Mean			9/23	30	1	17.9	34.7	55.6	67.1	72.3
CV %			1.0	1.9	25.9	0.9	0.7	1.0	5.9	--
LSD 0.10			1.4	2	1	0.2	0.3	0.65	4.6	--

Table 22. 2014 Soybean - Irrigated, Roundup Ready - Oakes (Carrington REC) - Authors, B. Schatz, L. Besemann and T. Indergaard (Page 2 of 2)

Company/ Brand	Variety	Maturity Group	Maturity ¹ (date)	Plant Height (inch)	Plant Lodge ² (0-9)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield	
									2014	2-yr. Avg. ------(bu/a)-----
Wensman	W 3080NR2	0.8	9/22	25	2	18.1	34.1	55.3	68.4	--
Wensman	W 3090NR2	0.8	9/21	37	0.0	18.2	34.3	55.5	68.4	71.8
Wensman	W 3102NR2	1.0	9/25	28	3	17.6	34.0	55.2	72.9	--
Wensman	W 3121NR2	1.2	9/23	29	0.9	17.6	35.4	56.5	69.1	--
Mean			9/23	30	1	17.9	34.7	55.6	67.1	72.3
CV %			1.0	6.7	25.9	0.9	0.7	1.0	5.9	--
LSD 0.10			1.4	2	1	0.2	0.3	0.7	4.6	--

Planted: May 21. Harvested: Oct. 9. Previous crop: field corn.

¹Maturity is date of 95 percent brown or tan pods.

²Lodging is from 0 to 9; 0 is erect, 9 is flat.

Table 23. 2014 Soybean - Roundup Ready - Langdon - Authors, B. Hanson, T. Hakanson and L. Henry. (1 of 2)

Company/ Brand	Variety	Maturity Group	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield ----(bu/a)----	
							2014	2-yr. Avg.
Croplan	R2T0041	00.4	f	24	15.4	32.9	38.7	43.4
Croplan	R2T00800	00.8	f	22	16.0	32.7	40.9	--
Croplan	R2T0091	00.9	f	24	15.7	32.2	39.4	47.7
Dyna-Gro	30RY04	00.4	9/8	20	16.2	32.6	37.7	44.4
Dyna-Gro	S006RY75	00.6	9/7	23	15.4	31.8	34.8	--
Dyna-Gro	S007RY44	00.7	9/9	20	15.8	32.4	40.1	45.7
Dyna-Gro	S02RY74	0.2	f	23	14.9	32.8	44.4	50.0
Hefty	H007R4	00.7	9/9	22	15.3	32.9	41.0	--
Hefty	H007Y12	00.7	9/8	21	16.3	33.1	39.6	45.6
Hefty	H008R3	00.8	f	21	15.9	31.3	37.5	45.2
Hefty	H009R3	00.9	f	22	14.6	33.1	46.8	--
Hefty	H01R4	0.1	f	24	14.4	33.0	37.1	--
Integra	20031	00.7	f	25	15.2	32.2	39.8	48.2
Integra	20090	00.9	f	26	15.6	31.3	39.2	48.2
Integra	20215	0.0	f	24	15.2	32.1	43.0	--
Integra	20076N	00.7	9/7	23	15.0	32.3	35.5	--
Legacy	LS00734 NRR2	00.7	9/8	27	15.6	32.0	35.3	--
Legacy	LS00834 RR2	00.8	9/10	20	15.4	32.9	37.6	--
Legacy	LS0134 RR2	0.1	f	21	15.0	32.7	41.9	--
Legacy	LS0214 RR2	0.2	f	28	15.1	32.7	41.9	--
Legend	LS 003R21	00.3	9/11	20	15.9	32.1	34.0	--
Legend	LS 003R24N	00.3	9/9	25	15.4	32.7	40.1	--
Legend	LS 005R24	00.5	9/10	25	14.5	33.6	41.8	--
Legend	LS 007R550N	00.7	9/8	25	15.0	32.2	36.5	--
Mycogen	5B005R2	00.5	9/8	21	16.2	33.2	40.2	47.9
Mycogen	5G009R2	00.9	9/12	25	15.1	32.5	43.9	49.7
Mycogen	X54G007R2	00.7	f	20	15.5	32.8	38.7	--
Mycogen	X54J009R2	00.9	9/9	21	14.9	32.6	42.3	--
NorthStar	NS 0060NR2	00.6	9/8	26	15.4	32.2	38.0	--
NorthStar	NS 0080R2	00.6	9/12	23	15.1	32.7	39.1	50.0
Nuseed	0074 RR2YN	00.7	9/6	23	15.5	31.8	36.6	--
NuTech	6000	0.0	f	21	16.2	32.3	42.7	--
NuTech	6007	00.7	f	21	15.7	33.4	38.9	--
Peterson	14R008	00.8	9/11	19	15.7	32.5	39.1	44.8
Peterson	14R02	0.2	f	22	14.5	32.9	42.0	45.4
Peterson	15R006N	00.6	9/8	24	15.4	31.1	35.2	--
Prairie	PB-00766R2	00.7	9/8	25	15.6	31.9	39.6	--
Prairie	PB-00844R2	00.8	f	23	16.1	31.7	43.0	47.5
Prairie	PB-00950R2	00.9	f	25	15.5	32.7	40.6	50.2
Prairie	PB-0240R2	0.1	f	25	15.3	33.2	43.3	--
Prairie	PB-0291R2	0.1	f	22	14.2	33.4	35.9	43.7
Proseed	30-07	00.7	9/11	21	15.2	32.2	35.9	--
Proseed	P2 10-08	00.8	9/12	25	15.5	32.5	40.4	48.5
Proseed	P2 11-05	00.5	9/10	22	16.1	32.2	39.4	44.6
Proseed	P2 11-07	00.7	9/11	21	16.4	32.1	42.4	45.2
Proseed	P2 20-08	00.8	f	22	16.0	31.7	39.8	47.2
REA	0140	0.1	9/11	24	15.3	32.2	42.6	--
REA	53G32	00.3	9/8	18	16.2	32.2	31.7	39.5
REA	55G14	00.5	f	24	15.6	31.8	38.5	42.6
REA	58G82	00.8	f	26	14.8	31.6	35.4	41.6
REA	61G24	0.1	f	22	14.6	33.4	43.2	--
Stine	01RE00	0.1	f	24	14.9	32.6	43.8	--
Syng NK	NK S007-Y4	00.7	9/9	20	16.4	31.6	41.1	--
Syng NK	NK S009-J1	00.9	f	19	16.2	33.1	36.6	--
Thunder	31009 R2Y	00.9	9/11	22	15.3	32.6	40.6	--
Thunder	32005 R2Y	00.5	9/10	19	16.0	32.5	35.1	--
Thunder	33009 R2YN	00.9	f	20	16.0	30.3	35.7	--
Mean			9/9	23	15.4	32.4	39.6	46.6
CV %			0.9	9.0	1.8	1.6	8.2	--
LSD 0.10			1.1	3	0.5	0.9	4.5	--

Table 23. 2014 Soybean - Roundup Ready - Langdon - Authors, B. Hanson, T. Hakanson and L. Henry. (2 of 2)

Company/		Maturity		Plant	Seed	Seed	Seed Yield	
Brand	Variety	Group	Maturity ¹	Height	Oil	Protein	2014	2-yr. Avg.
			(date)	(inch)	(%)	(%)	----(bu/a)----	
Thunder	35007 R2YN	00.7	9/10	23	14.9	32.6	39.0	--
Thunder	Astro	00.8	f	25	14.6	32.4	43.8	--
Wensman	W 30061NR2	00.6	9/8	24	15.4	31.6	38.8	--
Wensman	W 30084R2	00.8	f	25	15.5	31.8	43.7	52.2
Wensman	W 30099R2	00.9	f	24	15.6	31.9	39.5	46.4
Wensman	W 3024R2	0.2	f	22	14.8	33.1	43.6	50.8
Wensman	W 3030R2	0.2	f	27	15.1	32.9	39.7	47.6
Mean			9/9	23	15.4	32.4	39.6	46.6
CV %			0.9	9.0	1.8	1.6	8.2	--
LSD 0.10			1.1	2.9	0.5	0.9	4.5	--

Planted: May 24. Harvested: Oct. 8.

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).

A freeze occurred on Sept. 12 with temperatures ranging from 28 to 32 degrees F for five hours. An "f" indicates the variety did not reach the R7 stage in 3 of 4 replications prior to the freeze. However, all varieties were harvestable and had no distinctly green seeds in the sample.

Table 24. 2014 Soybean - Liberty Link - Langdon - Authors, B. Hanson, T. Hakanson and L. Henry.

Company/		Maturity		Plant	Seed	Seed	Seed Yield	
Brand	Variety	Group	Maturity ¹	Height	Oil	Protein	2014	2-yr. Avg.
			(date)	(inch)	(%)	(%)	----(bu/a)----	
Hefty	H008L3	00.8	9/9	21	16.0	33.5	37.3	37.3
Hefty	H0212L	0.2	f	22	16.2	32.6	35.2	--
Integra	30080	00.8	9/10	21	16.3	33.8	38.7	38.7
NorthStar	NS 0095LL	00.9	9/10	21	16.2	33.6	38.3	45.1
NorthStar	NS 0129LL	0.1	f	22	16.4	32.4	39.1	--
Stine	01LE06	0.1	f	22	16.2	33	41.4	--
Thunder	5401LL	0.1	f	22	15.9	32.5	34.8	--
Mean			9/10	22	16.1	33	37.8	40.4
CV %			1.6	5.6	0.7	0.9	4.4	--
LSD 0.10			NS	NS	0.2	0.6	2.1	--

See footnotes below.

Table 25. 2014 Soybean - Conventional - Langdon - Authors, B. Hanson, T. Hakanson and L. Henry.

Company/		Maturity		Plant	Seed	Seed	Seed Yield	
Brand	Variety	Group	Maturity ¹	Height	Oil	Protein	2014	2-yr. Avg.
			(date)	(inch)	(%)	(%)	----(bu/a)----	
Asgrow ²	AG 00932	00.9	9/10	24	15.0	33.5	39.5	46.9
NDSU	Ashtabula	0.4	f	24	16.6	30.6	42.1	46.9
NDSU	Cavalier	00.9	9/5	21	15.8	33.8	35.6	41.8
NDSU	Traill	0.0	9/9	23	15.3	34.2	34.3	39.4
Richland	MK0205	0.2	f	25	15.5	31.5	29.8	--
Richland	MK0249	0.2	f	21	15.3	31.0	35.8	39.4
Mean			9/8	23	15.6	32.4	36.2	43.7
CV %			1.2	8.9	1.3	0.7	5.5	--
LSD 0.10			1.7	NS	0.4	0.4	2.5	--

Planted: May 24. Harvested: Oct. 8.

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).

A freeze occurred on Sept. 12 with temperatures ranging from 28 to 32 degrees F for five hours. An "f" indicates the variety did not reach the R7 stage in 3 of 4 replications prior to the freeze. However, all varieties were harvestable and had no distinctly green seeds in the sample.

²Asgrow AG 00932 included as a Roundup Ready check.

Table 26. 2014 Soybean - Roundup Ready - Cavalier (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry.

Company/ Brand	Variety	Maturity Group	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield ------(bu/a)-----	
							2014	2-yr. Avg.
Dyna-Gro	30RY04	00.4	9/15	23	16.1	33.3	53.5	55.5
Dyna-Gro	S006RY75	00.6	9/9	23	14.9	33.8	50.3	--
Dyna-Gro	S007RY44	00.7	9/15	23	15.4	33.1	49.6	54.1
Dyna-Gro	S02RY74	0.2	9/22	27	15.0	33.6	60.1	63.0
Hefty	H007Y12	00.7	9/14	24	16.1	34.0	57.5	59.4
Hefty	H007R4	00.7	9/14	22	15.6	33.3	52.8	--
Hefty	H008R3	00.8	9/19	21	15.8	32.4	53.4	56.1
Hefty	H009R3	00.9	9/24	28	14.4	34.2	60.1	--
Hefty	H01R4	0.1	9/24	28	14.9	33.5	56.2	--
Integra	20031	00.7	9/21	27	15.3	32.7	52.0	58.6
Integra	20076N	00.7	9/11	23	15.3	33.1	47.9	--
Integra	20090	00.9	9/20	24	15.5	33.4	55.8	57.2
Integra	20215	0.0	9/22	27	14.8	33.7	61.3	--
Legacy	LS00734 NRR2	00.7	9/10	25	15.4	33.1	48.6	--
Legacy	LS00834 RR2	00.8	9/16	22	15.5	33.3	50.6	--
Legacy	LS0214 RR2	0.2	9/23	30	15.5	33.5	59.8	--
Legacy	LS0134 RR2	0.1	9/25	30	14.9	33.5	61.2	--
Mycogen	5B005R2	00.5	9/16	25	16.4	33.0	54.3	55.7
Mycogen	5G009R2	00.9	9/19	29	15.7	32.4	56.5	58.6
Mycogen	X54J009R2	00.9	9/22	26	15.1	33.6	59.1	--
Mycogen	X54G007R2	00.7	9/17	21	15.5	33.0	53.7	--
Mycogen	5B012R2	0.1	9/22	27	15.6	33.7	61.5	--
Northstar	NS 0060NR2	00.6	9/10	26	15.4	32.6	46.7	--
Northstar	NS 0080R2	00.6	9/21	29	15.5	33.0	57.3	60.1
Nuseed	0074 RR2YN	00.7	9/11	26	15.2	32.7	48.6	--
NuTech	6007	00.7	9/19	24	16.2	33.8	54.6	--
NuTech	6000	0.0	9/22	23	15.9	34.0	53.5	--
Peterson	15R006N	00.6	9/9	25	15.4	32.5	48.7	--
Peterson	14R008	00.8	9/16	22	15.7	33.2	52.0	53.5
Peterson	14R02	0.2	9/25	30	14.3	34.9	55.0	60.3
Prairie	PB-00766R2	00.7	9/10	27	14.9	34.0	50.3	--
Prairie	PB-00844R2	00.8	9/18	23	16.1	32.4	57.7	56.9
Prairie	PB-00950R2	00.9	9/21	28	15.4	33.1	56.3	62.1
Prairie	PB-0240R2	0.1	9/20	29	15.6	33.9	59.6	--
Prairie	PB-0291R2	0.1	9/23	30	14.3	34.6	56.5	59.4
Proseed	P2 11-05	00.5	9/15	24	15.7	33.2	52.7	53.5
Proseed	P2 11-07	00.7	9/17	25	16.0	33.7	55.6	57.4
Proseed	30-07	00.7	9/18	25	15.7	33.1	51.9	--
Proseed	P2 10-08	00.8	9/20	28	15.7	32.9	60.6	59.7
Proseed	P2 20-08	00.8	9/17	25	16.0	32.4	59.9	61.0
REA	0140	0.1	9/21	26	15.4	33.5	57.6	--
REA	53G32	00.3	9/15	22	16.3	32.5	40.2	46.4
REA	55G14	00.5	9/16	24	15.1	33.3	42.8	49.9
REA	58G82	00.8	9/21	26	15.0	33.2	46.8	52.4
REA	61G24	0.1	9/25	28	14.5	34.6	56.1	--
Syng NK	NK S007-Y4	00.7	9/12	19	16.9	31.4	49.3	--
Syng NK	NK S009-J1	00.9	9/15	20	16.9	33.2	51.5	--
Thunder	32005 R2Y	00.5	9/15	24	16.3	32.7	49.4	--
Thunder	Astro	00.8	9/21	27	14.9	33.8	55.2	--
Thunder	35007 R2YN	00.7	9/10	25	15.5	32.5	50.8	--
Thunder	31009 R2Y	00.9	9/20	28	15.5	32.9	57.2	--
Thunder	33009 R2YN	00.9	9/20	22	15.9	32.5	50.4	--
Wensman	W 30061NR2	00.6	9/10	26	15.4	32.9	45.7	--
Wensman	W 30084R2	00.8	9/21	27	15.6	33.1	55.3	57.7
Wensman	W 30099R2	00.9	9/21	29	15.8	33.2	60.2	62.3
Wensman	W 3024R2	0.2	9/22	27	14.9	33.8	56.7	60.7
Mean			9/18	25	15.5	33.3	53.9	57.3
CV %			1.6	8.5	1.7	1.5	6.3	--
LSD 0.10			2.1	2.5	0.4	0.9	4.0	--

Planted: May 29. Harvested: Oct. 15.

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).

Table 27. 2014 Soybean - Liberty Link - Park River (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry.

Brand	Variety	Maturity		Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
		Group	Maturity ¹ (date)				2014	2-yr. avg. (bu/a)
Hefty	H008L3	00.8	9/7	30	17.1	33	65.9	57.9
Hefty	H0212L	0.2	9/18	28	16.7	33	60.8	--
Integra	30080	00.8	9/7	31	16.5	33	64.1	57.3
NorthStar	NS 0095LL	00.9	9/8	31	16.8	33.1	64.4	--
NorthStar	NS 0129LL	0.1	9/14	31	16.5	32.4	67.9	66.8
Thunder	5303LL	0.3	9/19	31	16.5	34.5	67.4	--
Thunder	5401LL	0.1	9/15	32	16.6	32.0	59.9	--
Mean			9/13	31	16.6	33.0	64.4	60.6
CV %			1.0	5.2	1.5	1.8	5.9	--
LSD 0.10			1.4	2	NS	1.2	4.7	--

Planted: May 27. Harvested: Oct. 7.

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).**Table 28. 2014 Soybean - Conventional - Park River (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry.**

Brand	Variety	Maturity		Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
		Group	Maturity ¹ (date)				2014	2-yr. avg. (bu/a)
Asgrow ²	AG 00932	00.9	9/7	30	16.2	32.2	65.9	59.8
NDSU	Ashtabula	0.4	9/16	31	17.7	31.4	66.1	59.3
NDSU	Cavalier	00.9	9/4	28	16.3	33.5	56.5	54.4
NDSU	Traill	0.0	9/6	30	15.9	33.9	58.9	54.6
Richland	MK0205	0.2	9/19	35	16.5	33.2	52.4	--
Richland	MK0249	0.2	9/19	29	16.1	31.1	56.4	50.9
Mean			9/14	30	16.5	32.55	59.4	55.8
CV %			1.8	11.4	1.4	1.2	8.6	--
LSD 0.10			2.3	NS	0.4	0.7	6.5	--

Planted: May 27. Harvested: Oct. 7.

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).²Asgrow AG 00932 included as a Roundup Ready check.

Table 29. 2014 Soybean - Roundup Ready - Park River (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry.

Company/ Brand	Variety	Maturity		Plant	Seed	Seed	Seed Yield	
		Group	Maturity ¹ (date)	Height (inch)	Oil (%)	Protein (%)	2014 -----	2-yr. Avg. -----
Dyna-Gro	30RY04	00.4	9/2	25	16.8	32.9	53.3	48.1
Dyna-Gro	S006RY75	00.6	9/2	31	16.2	32.3	54.2	--
Dyna-Gro	S007RY44	00.7	9/5	24	17.0	31.6	59.0	51.0
Dyna-Gro	S02RY74	0.2	9/10	29	16.3	32.3	62.7	55.4
Hefty	H007Y12	00.7	9/3	25	17.0	33.1	51.6	49.3
Hefty	H007R4	00.7	9/3	23	17.0	32.1	56.2	--
Hefty	H008R3	00.8	9/5	27	17.0	31.0	56.8	52.5
Hefty	H009R3	00.9	9/18	26	16.2	32.5	64.4	--
Hefty	H01R4	0.1	9/16	26	15.6	33.0	60.4	--
Integra	20031	00.7	9/7	29	16.6	31.5	58.5	53.3
Integra	20076N	00.7	9/2	31	16.0	32.3	54.2	--
Integra	20215	0.0	9/10	27	16.4	32.0	62.5	--
Integra	20126	0.1	9/14	33	16.8	31.7	63.1	--
Integra	20109	0.2	9/18	27	15.9	32.7	64.3	58.6
Legacy	LS00734 NRR2	00.7	9/2	27	15.6	32.7	47.4	--
Legacy	LS00834 RR2	00.8	9/4	24	16.4	32.0	55.7	--
Legacy	LS0214 RR2	0.2	9/17	34	16.6	32.2	66.3	--
Legacy	LS0334 RR2	0.3	9/19	30	16.0	32.3	63.8	--
Legacy	LS0134 RR2	0.1	9/18	26	16.0	32.7	64.5	--
Mycogen	5G009R2	00.9	9/6	30	16.7	30.9	61.5	55.2
Mycogen	X54J009R2	00.9	9/9	25	16.1	32.2	62.8	--
Mycogen	X54G007R2	00.7	9/4	25	16.7	32.1	57.1	--
Mycogen	5B012R2	0.1	9/5	28	16.8	32.7	60.7	55.0
Northstar	NS 0088R2	00.9	9/6	25	16.7	30.9	56.0	53.2
Northstar	NS 0096R2	00.9	9/6	31	16.9	31.0	61.9	56.7
Nuseed	0074 RR2YN	00.7	9/1	28	16.2	32.0	48.1	--
Nuseed	2034 RR2YN	0.3	9/16	36	16.3	31.7	64.4	--
NuTech	6007	00.7	9/6	26	16.7	32.4	57.0	--
NuTech	6000	0.0	9/12	23	17.2	31.3	56.7	--
NuTech	6021	0.2	9/13	24	16.4	32.8	58.0	54.7
Peterson	14R02	0.2	9/18	27	15.3	33.1	61.6	56.9
Peterson	15R04	0.4	9/19	30	16.1	31.5	63.9	--
Prairie	PB-00766R2	00.7	9/1	28	16.1	32.3	55.4	--
Prairie	PB-00844R2	00.8	9/6	26	16.5	31.3	60.8	54.9
Prairie	PB-00950R2	00.9	9/5	29	17.1	31.1	58.8	54.1
Prairie	PB-0240R2	0.1	9/6	31	16.5	32.0	57.2	--
Prairie	PB-0291R2	0.1	9/18	27	15.1	32.9	64.9	59.2
Proseed	P2 10-08	00.8	9/5	30	16.8	31.8	60.9	56.3
Proseed	30-20	0.2	9/14	32	16.6	32.1	68.0	--
Proseed	P2 20-30	0.3	9/15	32	16.7	31.7	66.8	59.2
REA	0140	0.1	9/6	31	16.8	31.5	61.6	--
REA	58G82	00.8	9/12	29	16.8	30.7	53.3	54.2
REA	61G24	0.1	9/18	26	15.8	32.3	62.5	--
REA	62G22	0.2	9/7	32	17.0	31.2	59.2	52.3
REA	64G94	0.4	9/17	28	18.0	29.6	59.3	--
Stine	01RE00	0.1	9/12	28	16.4	31.5	62.6	--
Syng NK	NK S007-Y4	00.7	9/1	25	17.4	31.2	49.9	--
Syng NK	NK S009-J1	00.9	9/8	24	17.3	31.8	59.8	--
Thunder	32005 R2Y	00.5	9/3	26	16.8	32.2	51.6	--
Thunder	Astro	00.8	9/9	30	16.2	31.8	61.7	--
Thunder	35007 R2YN	00.7	9/1	28	16.2	32.5	51.4	--
Thunder	31009 R2Y	00.9	9/7	30	16.7	31.2	62.8	--
Thunder	33009 R2YN	00.9	9/6	27	16.9	31.5	52.3	--
Wensman	W 30061NR2	00.6	9/1	27	16.1	32.6	50.9	--
Wensman	W 30084R2	00.8	9/5	29	16.7	30.8	57.1	--
Wensman	W 30099R2	00.9	9/9	29	16.8	31.4	67.2	61.1
Wensman	W 3024R2	0.2	9/9	27	16.6	32.2	60.0	56.8
Wensman	W 3030R2	0.2	9/7	31	16.6	32.2	57.0	52.6
Mean			9/9	28	16.5	32.0	58.1	54.8
CV %			1.5	8.1	1.7	1.6	7.1	--
LSD 0.10			1.8	2.7	0.5	0.8	4.8	--

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).

Table 30. 2014 Soybean - Roundup Ready - Pekin (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry (Page 1 of 2).

Company/ Brand	Variety	Maturity Group	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield ------(bu/a)----- 2014 2-yr. Avg.	
Dairyland	DSR-0305/R2Y	0.3	9/21	33	14.9	34.3	66.5	61.6
Dairyland	DSR-404/R2Y	0.4	9/22	31	14.2	34.3	57.1	56.9
Dairyland	DSR-C905/R2Y	00.9	9/18	30	15.7	32.8	60.1	53.5
Dairyland	DSR-C918/R2Y	00.9	9/20	27	15.3	33.1	62.8	--
Dairyland	DST02-001/R2Y	0.2	9/21	28	14.9	34.2	57.9	--
Dyna-Gro	30RY04	00.4	9/15	29	15.5	34.3	57.7	50.5
Dyna-Gro	S006RY75	00.6	9/10	29	14.8	34.7	54.3	--
Dyna-Gro	S007RY44	00.7	9/13	27	15.2	33.9	57.9	49.5
Dyna-Gro	S02RY74	0.2	9/20	28	14.6	34.9	57.1	54.6
Hefty	H009R3	00.9	9/21	30	14.6	34.4	60.3	--
Hefty	H01R4	0.1	9/21	28	14.4	34.5	52.1	--
Hefty	H02R3	0.2	9/21	32	14.4	33.6	54.4	55.2
Integra	20031	00.7	9/16	31	15.4	32.9	57.3	53.0
Integra	20109	0.2	9/20	28	14.8	34.2	57.9	--
Integra	20126	0.1	9/20	36	15.5	33.3	64.8	--
Integra	20215	0.0	9/18	28	14.8	34.8	57.4	--
Integra	20076N	00.7	9/10	28	15.3	33.6	50.3	--
Legacy	LS00734 NRR2	00.7	9/10	28	15.3	33.4	48.8	--
Legacy	LS00834 RR2	00.8	9/13	24	15.5	33.4	54.7	--
Legacy	LS0134 RR2	0.1	9/21	30	14.7	34.2	62.7	--
Legacy	LS0214 RR2	0.2	9/19	34	15.1	33.8	64.3	--
Legacy	LS0334 RR2	0.3	9/24	34	14.5	35.2	64.9	--
Mycogen	5B012R2	0.1	9/17	30	15.8	33.7	54.4	51.9
Mycogen	5B024R2	0.2	9/18	32	15.3	34.1	59.2	52.4
Mycogen	5G009R2	00.9	9/15	31	15.2	33.9	58.3	--
Mycogen	X54J009R2	00.9	9/19	28	14.7	34.5	59.1	--
NorthStar	NS 0088R2	00.9	9/17	27	15.3	33.6	55.7	49.1
NorthStar	NS 0096R2	00.9	9/16	31	16.0	32.7	55.2	51.6
Nuseed	0074 RR2YN	00.7	9/7	26	15.4	32.9	47.8	--
Nuseed	2034 RR2YN	0.3	9/20	34	14.8	34.3	56.4	--
NuTech	6000	0.0	9/19	25	15.8	33.5	54.2	--
NuTech	6007	00.7	9/15	24	15.7	33.9	49.4	--
NuTech	6021	0.2	9/19	24	15.4	34.6	55.4	49.8
Peterson	14R02	0.2	9/21	29	14.6	34.1	58.6	58.2
Peterson	15R04	0.4	9/23	35	14.9	34.0	63.6	--
Prairie	PB-00766R2	00.7	9/9	29	15.5	33.4	49.0	--
Prairie	PB-00844R2	00.8	9/17	27	16.3	31.9	57.4	48.8
Prairie	PB-00950R2	00.9	9/16	29	15.4	32.8	59.5	58.2
Prairie	PB-0240R2	0.1	9/16	33	15.0	34.6	61.5	--
Prairie	PB-0291R2	0.1	9/22	29	14.0	35.3	55.8	53.9
Proseed	30-20	0.2	9/22	30	15.5	33.3	57.8	--
Proseed	P2 20-30	0.3	9/19	33	15.1	34.5	64.4	59.3
REA	0140	0.1	9/16	30	15.3	32.9	59.5	--
REA	58G82	00.8	9/18	26	14.9	33.2	45.9	46.4
REA	61G24	0.1	9/21	27	14.6	34.7	61.1	--
Mean			9/17	29	15.2	33.7	55.8	53.3
CV %			1.8	9.3	2.0	2.0	7.8	--
LSD 0.10			2.3	3.2	0.5	1.1	5.1	--

Table 30. 2014 Soybean - Roundup Ready - Pekin (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry (Page 2 of 2).

Company/ Brand	Variety	Maturity		Plant Height	Seed Oil	Seed Protein	Seed Yield	
		Group	Maturity (date) ¹				2014	2-yr. Avg.
REA	62G22	0.2	9/18	34	15.0	34.4	55.8	52.0
REA	64G94	0.4	9/22	36	15.8	33.4	53.3	--
Syng NK	NK S007-Y4	00.7	9/15	27	15.9	32.7	57.7	--
Syng NK	NK S009-J1	00.9	9/15	24	16.5	33.3	53.7	--
Thunder	32005 R2Y	00.5	9/13	26	16.2	33.0	48.5	--
Thunder	Astro	00.8	9/17	30	15.0	33.4	60.0	--
Thunder	35007 R2YN	00.7	9/8	28	15.8	33.1	50.8	--
Thunder	31009 R2Y	00.9	9/16	32	15.7	32.6	60.2	--
Thunder	33009 R2YN	00.9	9/18	27	15.6	32.3	52.5	--
Wensman	W 30084R2	00.8	9/16	32	15.3	33.0	62.7	--
Wensman	W 30099R2	00.9	9/20	32	15.7	32.7	59.3	52.9
Wensman	W 3024R2	0.2	9/17	25	15.1	34.0	58.2	56.8
Wensman	W 3030R2	0.2	9/18	31	15.0	34.1	52.7	49.9
Mean			9/17	29	15.2	33.7	55.8	53.3
CV %			1.8	9.3	2.0	2.0	7.8	--
LSD 0.10			2.3	3.2	0.5	1.1	5.1	--

Planted: May 28. Harvested: Oct. 14.

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).

Table 31. 2014 Soybean - Roundup Ready - Minot (North Central REC) - Authors, E. Eriksmoen, J. Tarasenko and J. Effertz (Page 1 of 2).

Company/ Brand	Variety	Maturity Group	IDC Rating ¹	Maturity ² (date)	Plant Height (inches)	Seed Protein (%)	Seed Oil (%)	Test Weight (lb/bu)	Seed Yield 2014 ----
AgVenture	04E4	0.4	2.1	9/26	29	29.9	15.9	57.2	41.1
AgVenture	009E3RR	00.9	--	9/19	25	27.2	16.6	57.0	39.2
AgVenture	EX200RR	0.0	--	9/16	31	27.5	16.4	56.9	41.7
AgVenture	EX202RR	0.2	--	9/19	27	26.4	17.0	56.3	42.3
AgVenture	006Z6RR	00.6	--	9/15	28	26.4	17.0	56.8	38.0
Dyna-Gro	34RY03	0.3	1.3	9/16	32	28.6	15.6	57.8	38.4
Dyna-Gro	S008RY43	00.8	1.4	9/15	27	27.1	16.6	56.2	46.3
Dyna-Gro	S02RY74	0.2	2.0	9/17	28	28.0	15.6	57.6	39.4
Integra	20031	00.5	1.7	9/21	31	30.2	15.1	57.2	41.9
Integra	20090	00.9	1.7	9/17	29	28.5	16.0	57.1	36.2
Integra	20109	0.1	2.5	9/25	28	29.3	15.4	57.9	42.5
Integra	20126	0.1	1.8	9/19	29	29.0	16.5	56.6	41.3
Integra	20215	0.1	2.2	9/21	26	30.3	15.5	56.6	55.1
Integra	201B1	00.9	1.7	9/15	32	27.9	16.3	56.7	40.7
Legacy	LS00834	00.8	1.7	9/13	24	28.6	15.9	56.7	37.3
Legacy	LS0134	0.1	2.3	9/24	25	28.9	15.5	57.0	39.1
Legacy	LS0214	0.2	1.8	9/21	26	28.3	16.5	56.3	43.5
Legacy	LS0334	0.3	1.7	9/24	29	28.2	16.3	56.5	39.9
Legacy	LS00734	00.7	1.8	9/13	30	27.9	16.5	56.7	34.1
Legend	LS 003R24N	00.3	1.9	9/14	30	28.1	16.6	56.2	35.8
Legend	LS 005R24	00.5	1.9	9/15	30	29.9	15.2	57.1	46.0
Legend	LS 008R560N	00.8	1.5	9/24	26	26.9	16.2	56.4	38.2
Legend	LS 009R20	00.9	1.7	9/15	28	27.6	16.5	57.3	40.7
Legend	LS 003R21	00.3	1.5	9/15	27	31.4	16.5	56.6	46.2
Mycogen	5G009R2	00.9	1.7	9/15	32	28.1	16.0	57.7	40.0
Mycogen	X54G007R2	00.7	1.7	9/14	24	29.4	15.8	56.4	39.1
Mycogen	X54J009R2	00.9	2	9/22	25	27.4	15.9	56.5	39.6
Mycogen	5B005R2	00.5	1.8	9/13	26	27.6	17.0	56.8	38.8
NorthStar	NS 0096R2	00.9	1.6	9/15	30	27.7	16.4	56.5	39.8
NorthStar	NS 0318R2	0.3	2.0	9/24	29	29.8	15.6	56.0	52.1
NorthStar	NS 0080R2	00.6	1.5	9/16	30	28.8	15.7	56.8	37.7
Nuseed	0074 RR2YN	00.7	1.9	9/13	29	26.2	16.6	57.2	32.7
Nuseed	2034 RR2YN	0.3	1.6	9/21	33	28.8	16.0	57.9	44.7
Peterson	14R008	00.8	1.6	9/15	25	28.5	15.8	56.6	37.6
Peterson	14R02	0.2	1.9	9/28	25	29.8	15.8	57.1	39.4
Peterson	15R006N	00.6	1.8	9/14	28	27.6	16.3	56.4	30.0
Prairie	PB-00844R2	00.8	1.5	9/15	26	28.6	16.4	55.6	41.7
Prairie	PB-0240R2	0.1	1.4	9/16	28	28.9	16.3	57.2	39.9
Prairie	PB-00766R2	00.7	1.7	9/13	26	29.7	16.0	56.5	36.1
Prairie	PB-00950R2	00.9	1.5	9/16	28	27.2	16.0	57.5	36.4
Prairie	PB-0291R2	0.1	2	9/23	28	28.0	15.9	57.2	41.9
Proseed	30-07	00.7	1.8	9/16	26	29.0	15.6	56.8	35.1
Proseed	30-20	0.2	1.9	9/19	31	27.0	16.8	56.7	49.3
Proseed	P2 10-08	00.8	1.6	9/17	31	30.1	15.8	58.3	44.7
Proseed	P2 11-07	00.7	1.7	9/15	29	29.1	16.8	56.6	41.1
Proseed	P2 20-08	00.8	1.6	9/15	29	29.9	16.2	55.9	49.1
Proseed	P2 20-30	0.3	1.8	9/25	27	27.0	15.8	57.3	44.1
REA	55G14	00.5	1.8	9/15	32	26.2	16.1	56.8	36.0
REA	58G82	00.8	1.5	9/18	28	29.3	15.6	57.4	44.0
REA	61G24	0.1	2.4	9/27	28	34.0	14.5	57.6	58.7
REA	62G22	0.2	1.5	9/16	33	29.3	15.8	57.2	35.3
Mean				9/17	29	28.6	16.1	56.9	41.2
CV %				1.3	5.6	4.4	1.9	0.8	7.9
LSD 0.10				2	2	1.5	0	0.6	3.8

Table 31. 2014 Soybean - Roundup Ready - Minot (North Central REC) - Authors, E. Eriksmoen, J. Tarasenko and J. Effertz (Page 2 of 2).

Company/ Brand	Variety	Maturity Group	IDC Rating ¹	Maturity ² (date)	Plant Height (inches)	Seed Protein (%)	Seed Oil (%)	Test Weight (lb/bu)	Seed Yield 2014	
REA	53G32	00.3	2	9/14	26	29.2	16.5	56.8	38.4	
Thunder	31009 R2Y	00.9	1.5	9/18	36	28.5	15.6	57.2	48.1	
Thunder	33009 R2YN	00.9	2.1	9/18	23	28.4	16.2	56.0	42.5	
Thunder	34006 R2Y	00.6	1.9	9/13	28	27.0	16.5	57.0	34.5	
Thunder	35007 R2YN	00.7	1.9	9/13	31	29.1	15.8	57.0	43.6	
Thunder	3503 R2Y	0.3	1.5	9/20	31	31.3	15.3	57.5	53.3	
Thunder	Astro	00.8	1.6	9/19	33	29.6	15.5	56.9	43.8	
Thunder	32005 R2Y	00.5	1.6	9/14	26	29.2	16.5	56.8	46.2	
Wensman	W 30084R2	00.8	1.6	9/18	29	27.6	15.9	57.2	34.8	
Wensman	W 30099R2	00.9	1.7	9/17	34	27.2	16.5	57.1	39.1	
Wensman	W 3024R2	0.2	2.2	9/18	28	29.8	15.5	56.9	47.1	
Wensman	W 30061NR2	00.6	1.7	9/13	30	27.1	16.6	57.0	34.9	
Mean				9/17	29	28.6	16.1	56.9	41.2	
CV %				1.3	5.6	4.4	1.9	0.8	7.9	
LSD 0.10				2	2	1.5	0	0.6	3.8	

Planted: May 23 with a seeding rate of 200,000 pure live seed. Harvested: Oct. 21.

¹IDC rating = Iron deficiency chlorosis rating: 1 - green, 3 - yellow, 5 - dead tissue.

²Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).

Table 32. 2014 Soybean - Conventional - Minot (North Central REC) - Authors, E. Eriksmoen, J. Tarasenko and J. Effertz.

Company/ Brand	Variety	Maturity Group	IDC Rating ¹	Maturity ² (date)	Plant Height (inches)	Seed Protein (%)	Seed Oil (%)	Test Weight (lb/bu)	Seed Yield 2014 2-yr. Avg. ------(bu/a)-----	
Integra	30080	00.8	1.6	9/17	27	26.9	17.0	56.3	32.7	41.9
Integra	30300	0.3	1.9	9/19	27	26.8	17.6	55.6	41.9	44.6
NDSU	Ashtabula	0.4	2.2	9/22	29	25.2	17.1	56.6	51.7	45.5
NDSU	Cavalier	00.9	2.3	9/14	28	27.7	16.9	56.0	32.3	36.4
NDSU	Sheyenne	0.7	1.8	9/24	31	25.7	16.8	57.6	39.5	40.4
NDSU	Traill	0.0	1.6	9/19	28	29.5	16.3	58.3	45.1	44.4
NorthStar	0095LL	00.9	1.5	9/15	28	26.9	16.9	56.5	39.3	45.2
NorthStar	0129LL	0.1	1.9	9/20	29	25.8	17.5	56.1	43.3	--
Thunder	5205LL	0.5	2.0	9/24	36	27.9	16.4	57.1	47.5	--
Thunder	5303 LL	0.3	2.0	9/21	27	28.9	17.1	56.4	48.6	--
Thunder	5401LL	0.1	1.7	9/17	29	26.6	17.0	55.0	32.3	--
Mean				9/20	29	27.2	17.0	56.7	41.7	42.6
CV %				0.8	5.8	1.0	1.5	1.4	8.8	--
LSD 0.10				1	2.0	0.3	0.3	0.9	4.4	--

Planted: May 23 with a seeding rate of 200,000 pure live seeds. Harvested: Oct. 21.

¹IDC rating = Iron deficiency chlorosis rating: 1 - green, 3 - yellow, 5 - dead tissue.

²Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).

Table 33. 2014 Soybean - Roundup Ready - Garrison (North Central REC) - Authors, E. Eriksmoen, J. Tarasenko and J. Effertz

Company/ Brand	Variety	Maturity Group	IDC Rating ¹	Plant Height	Seed Protein	Seed Oil	Test Weight	Seed Yield 2014
			(1-5)	(inches)	(%)	(%)	(lb/bu)	(bu/a)
AgVenture	009E3RR	00.9	--	13	31.2	16.4	57.6	33.3
AgVenture	04E4	0.4	2.1	19	32.5	15.9	57.4	33.3
AgVenture	006Z6RR	00.6	--	13	31.3	16.4	57.4	33.8
AgVenture	EX202RR	0.0	--	14	31.2	16.3	57.6	30.8
Asgrow	AG0231	0.2	2.2	18	32.3	15.3	58.2	25.5
Integra	20090	00.9	1.7	16	31.7	15.9	57.8	39.9
Integra	20109	0.1	2.5	17	33.0	15.7	57.6	22.6
Integra	20126	0.1	1.8	20	32.9	15.7	57.1	38.3
Integra	20215	0.1	2.2	18	31.4	15.1	58.2	42.5
Legacy	LS00834	00.8	1.7	16	32.2	15.2	57.8	43.0
Legacy	LS0134	0.1	2.3	16	32.7	15.8	57.5	27.8
Legacy	LS0214	0.2	1.8	18	33.0	15.7	57.1	42.4
Legacy	LS0334	0.3	1.7	20	32.8	15.6	57.3	32.2
Legacy	LS00734	00.7	1.8	17	32.0	15.4	57.3	35.5
NorthStar	NS 0096R2	00.9	1.6	18	32.1	15.7	57.9	46.6
NorthStar	NS 0318R2	0.3	1.9	20	33.0	15.1	57.7	36.9
Nuseed	0074 RR2YN	00.7	1.9	16	32.0	15.8	57.1	29.7
Nuseed	2034 RR2YN	0.3	1.6	21	33.6	15.1	58.2	34.8
Peterson	13R03	0.3	1.7	17	32.5	15.3	57.6	31.3
Peterson	15R04	0.4	2.0	17	33.3	15.6	55.9	28.0
Peterson	14R02	0.2	1.9	15	32.2	15.2	57.9	29.0
Proseed	30-07	00.7	1.8	13	32.7	15.1	57.7	24.7
Proseed	30-20	0.2	1.9	19	32.7	15.9	57.5	45.0
Proseed	P2 10-08	00.8	1.6	17	31.9	15.9	57.9	45.2
Proseed	P2 11-07	00.7	1.7	14	33.6	16.1	57.5	40.3
Proseed	P2 20-08	00.8	1.6	13	31.2	16.1	57.4	37.6
Proseed	P2 20-30	0.3	1.8	21	32.6	15.4	57.4	44.7
REA	61G24	0.1	2.4	18	33.5	15.3	57.4	30.3
REA	62G22	0.2	1.5	20	34.4	14.9	57.9	40.9
REA	58G82	00.8	1.5	15	32.1	15.3	57.4	31.2
Thunder	31009 R2Y	00.9	1.5	18	32.1	15.4	58.0	46.1
Thunder	33009 R2YN	00.9	2.1	12	31.7	15.8	57.4	23.5
Thunder	34006 R2Y	00.6	1.9	15	32.7	15.5	57.5	34.3
Thunder	35007 R2YN	00.7	1.9	16	32.4	15.2	57.7	30.5
Thunder	3503 R2Y	0.3	1.5	17	32.1	15.5	57.7	45.7
Thunder	Astro	00.8	1.6	18	32.6	15.0	57.8	41.3
Thunder	32005 R2Y	00.5	1.6	14	32.5	16.4	57.3	31.6
Wensman	W 30099R2	00.9	1.7	19	33.0	15.5	57.9	49.4
Wensman	W 3024R2	0.2	2.2	18	32.0	14.9	58.1	41.7
Wensman	W 3032R2	0.4	2.1	18	32.5	15.6	57.5	41.5
Wensman	W 30061NR2	00.6	1.7	14	32.0	15.5	57.1	32.6
Mean				17	32.4	15.6	57.6	36.0
CV %				14.2	1.5	1.7	0.4	11.5
LSD 0.10				3.0	0.6	0.3	0.3	4.8

Planted: May 29 with a seeding rate of 200,000 pure live seed. Harvested: Oct. 16. Previous crop: sunflower.

¹IDC rating = Iron deficiency chlorosis rating: 1 - green, 3 - yellow, 5 - dead tissue.

Table 34. 2014 Soybean - Roundup Ready - Mohall (North Central REC) - Authors, E. Eriksmoen, J. Tarasenko and J. Effertz.

Company/ Brand	Variety	Maturity Group	IDC Rating ¹ (1-5)	Plant Height (inch)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2014 (bu/a)
AgVenture	006Z6RR	00.6	--	22	58.2	15.3	33.4	31.2
AgVenture	009E3RR	00.9	--	22	57.7	14.7	33.7	35.2
Asgrow	AG0231	0.2	2.2	28	59.0	13.6	34.8	32.2
Integra	20031	00.5	1.7	31	58.4	13.8	33.7	35.6
Integra	20090	00.9	1.7	30	58.1	13.8	33.8	43.4
Integra	20215	0.1	2.2	30	58.6	14.7	32.9	45.8
Integra	20076N	00.7	1.9	26	58.0	13.6	34.5	34.5
Integra	201B1	00.9	1.7	26	58.5	14.6	33.4	38.2
Legacy	LS00734	00.7	1.8	26	58.1	13.4	33.8	31.5
Legacy	LS00834	00.8	1.7	22	58.9	13.3	34.4	34.9
Legacy	LS0134	0.1	2.3	25	59.1	14.4	34.7	33.4
Legacy	LS0214	0.2	1.8	28	58.2	14.3	32.9	40.6
Legacy	LS0334	0.3	1.7	27	58.8	13.5	34.1	25.3
NorthStar	NS 0080R2	00.6	1.5	25	58.3	14.1	33.6	33.3
NorthStar	NS 0096R2	00.9	1.6	26	58.1	14.5	33.5	35.9
Nuseed	0074 RR2YN	00.7	1.9	27	58.3	13.6	34.8	28.7
Nuseed	2034 RR2YN	0.3	1.6	32	59.3	13.4	34.3	35.2
Peterson	14R008	00.8	1.6	21	58.3	13.5	33.7	38.9
Peterson	15R006N	00.6	1.8	25	58.3	13.5	34.1	32.9
Prairie	PB-00766R2	00.7	1.7	25	58.6	14.0	33.4	31.9
Prairie	PB-00844R2	00.8	1.5	25	57.8	14.9	33.3	34.2
Prairie	PB-00950R2	00.9	1.5	28	59.6	13.7	34.6	42.5
Prairie	PB-0240R2	0.1	1.4	32	59.4	13.4	34.4	30.4
Prairie	PB-0291R2	0.1	2.0	25	58.6	13.6	34.5	27.8
Proseed	30-07	00.7	1.8	27	58.3	14.0	33.5	37.0
Proseed	30-20	0.2	1.9	27	58.1	14.4	33.4	42.9
Proseed	P2 10-08	00.8	1.6	28	58.9	13.2	34.5	45.3
Proseed	P2 11-07	00.7	1.7	28	58.0	14.8	34.5	39.0
Proseed	P2 20-08	00.8	1.6	30	58.0	14.5	34.2	43.2
Proseed	P2 20-30	0.3	1.8	25	58.7	14.2	33.2	35.4
REA	53G32	00.3	2.0	20	57.6	13.5	34.5	31.3
REA	55G14	00.5	1.8	26	58.4	14.8	33.5	31.4
Thunder	31009 R2Y	00.9	1.5	29	58.9	14.4	34.1	42.2
Thunder	32005 R2Y	00.5	1.6	22	58.3	14.4	34.1	30.7
Thunder	33009 R2YN	00.9	2.1	26	58.0	13.7	33.3	34.8
Thunder	34006 R2Y	00.6	1.9	27	58.1	14.0	33.5	45.5
Thunder	35007 R2YN	00.7	1.9	26	58.0	14.1	33.4	32.3
Thunder	3503 R2Y	0.3	1.5	27	58.8	14.9	32.9	46.3
Thunder	Astro	00.8	1.6	29	58.7	14.1	34.5	43.1
Wensman	W 30061NR2	00.6	1.7	25	58.1	13.5	33.8	30.9
Wensman	W 30084R2	0.08	1.6	26	58.8	14.0	33.7	45.3
Wensman	W 30099R2	0.09	1.7	30	59.1	14.4	33.6	42.6
Wensman	W 3024R2	0.2	2.2	27	59.0	13.4	34.2	41.2
Mean				26	58.5	14.0	33.9	36.6
CV %				6.9	0.7	2.6	2.5	11.7
LSD 0.10				0.5	0.5	0.4	1.0	5.0

Planted: May 28 with a seeding rate of 200,000 pure live seeds. Harvested: Oct. 20.

¹IDC rating = Iron deficiency chlorosis rating: 1 - green, 3 - yellow, 5 - dead tissue.

Table 35. 2014 Soybean - Conventional - Hettinger - Authors, J. Rickertsen and R. Olson.

Company/ Brand	Variety	Maturity Group	Plant Height	Test Weight	Seed Oil	Seed Protein	Seed 2014	Yield 3-Yr. Avg.
			(inch)	(lb/bu)	(%)	(%)	-----	(bu/a)-----
NDSU	Ashtbula	0.4	31	54.6	16.6	33.5	48.0	42.6
NDSU	Cavalier	00.9	32	53.5	15.7	34.8	41.9	38.3
NDSU	Sheyenne	0.7	31	55.6	15.8	33.7	50.8	45.5
NDSU	Trall	00.0	31	55	15	36.9	42.5	36.5
Mean			32	54.7	15.6	35.3	44.4	40.7
CV %			2.7	1.2	1.8	1.5	5.5	--
LSD 0.10			1.1	0.8	0.3	0.7	3.0	--

Planted: May 21. Harvested: Oct. 7. Previous crop: winter wheat.

Table 36. 2014 Soybean - Roundup Ready - Hettinger - Authors, J. Rickertsen and R. Olson.

Company/ Brand	Variety	Maturity Group	Plant Height	Test Weight	Seed Oil	Seed Protein	Seed 2014	Yield 2-Yr. Avg.
			(inch)	(lb/bu)	(%)	(%)	-----	(bu/a)-----
AgVenture	04E4RR	0.4	28	53.2	15.2	34.2	47.0	--
AgVenture	05B5RR	0.5	28	53.5	16.4	32.4	50.0	--
AgVenture	08E5RR	0.8	27	55.2	15.5	33.5	41.6	--
AgVenture	09E1RR	0.9	30	54.5	15.1	34.8	38.2	--
AgVenture	12B2RR	1.2	30	54.9	14.6	33.5	41.4	--
Integra	20300	0.3	27	54.0	14.4	35.3	46.4	43.5
Integra	20456	0.4	28	54.5	15.1	34.5	49.9	--
Integra	20600	0.6	31	53.7	14.9	33.8	50.4	46.8
Integra	20646N	0.6	30	53.8	14.3	36.1	48.5	--
Legacy	LS-0134	0.1	25	54.8	14.5	35.3	49.5	--
Legacy	LS-0214	0.2	30	53.0	15.6	35.1	50.6	--
Legacy	LS-0334	0.3	29	53.8	14.7	35.7	49.5	--
Legacy	LS-0634N	0.6	28	53.9	14.6	35.3	46.3	--
Legacy	LS-0833N	0.8	31	54.3	14.6	34.6	46.6	--
Legacy	LS-1134N	1.1	31	54.5	14.6	34.5	39.6	--
NuTech	7063	0.6	28	53.7	15.9	33.1	46.6	--
NuTech	6084R	0.8	26	54.4	14.6	35.5	42.3	--
Peterson	14R06N	0.6	28	53.9	14.1	36.2	47.3	--
Peterson	15R04	0.4	29	54.6	14.9	34.9	48.3	--
Proseed	11-50	0.5	32	53.7	14.8	33.9	51.2	--
Proseed	30-20	0.2	31	53.0	15.8	35.0	53.4	--
Mean			29	54.0	15.0	34.6	46.9	45.2
CV %			5.4	0.9	2.6	2.0	5.7	--
LSD 0.10			1.8	0.6	0.5	0.8	3.2	--

Planted: May 21. Harvested: Oct. 7. Previous crop: winter wheat.

Table 37. 2014 Soybean - Dryland, Roundup Ready - Williston - Authors, J. Bergman, G. Pradhan and D. Amiot.

Company/ Brand	Variety	Maturity Group	Days to Flower (DAP) ¹	Plant Height (inch)	Seed Protein (%)	Seed Oil (%)	Seed Yield 2014 ---(bu/a)---
Dyna-Gro	S02RY74	0.2	33	17	31.9	14.7	27.7
Dyna-Gro	S04RY55	0.4	33	19	33.0	14.4	29.5
Dyna-Gro	S06RY24	0.6	35	17	33.2	14.1	23.4
Integra	20090	00.9	32	17	31.3	15.6	29.5
Integra	20109	0.1	34	15	32.4	14.8	23.8
Integra	20126	0.1	36	19	31.8	15.1	26.2
Legacy	LS00734 NRR2	00.7	32	15	32.8	15.4	22.9
Legacy	LS00834 RR2	00.8	32	15	32.1	15.3	23.6
Legacy	LS0134 RR2	0.1	36	15	33.8	14.4	27.5
Legacy	LS0214 RR2	0.2	35	19	31.7	15.3	27.9
Legacy	LS0334 RR2	0.3	37	21	31.7	14.4	29.6
NuTech	6000	0.0	34	12	31.4	15.9	17.6
NuTech	6007	00.7	32	29	32.8	15.9	18.9
NuTech	6021	0.2	32	13	32.2	15.5	23.6
NuTech	6036	0.3	33	20	31.2	15.2	22.6
NuTech	7063	0.6	32	16	29.9	15.9	32.0
Peterson	14R008	00.8	32	13	31.8	15.3	22.1
Peterson	14R02	0.2	35	17	31.6	14.7	25.9
Peterson	15R04	0.4	35	19	31.1	14.6	24.2
REA	55G14	00.5	32	15	33.5	15.2	24.5
REA	58G82	00.8	32	16	31.6	15.2	21.0
Syng NK	S00-A7	00.7	32	12	32.9	16.2	25.2
Syng NK	S02-B4	0.2	32	17	31.2	15.6	26.5
Syng NK	S04-D3	0.4	32	17	32.6	14.9	29.5
Mean			33	16	32.0	15.2	25.1
CV %			2.7	8.6	2.8	1.3	12
LSD 0.10			1.1	1.6	1.0	0.2	3.5

Planted: May 23. Harvested: Sept. 29. Previous crop: durum.

¹DAP = Days after planting.

Table 38. 2014 Soybean - Irrigated, Roundup Ready - Nesson Valley (Williston REC) - Authors, J. Bergman, B. Lamolinare and T. Tjelde.

Company/ Brand	Variety	Maturity Group	Days to Flower (DAP) ¹	Seed Protein (%)	Seed Oil (%)	Seed Yield 2014 ---(bu/a)---
Dyna-Gro	S02RY74	0.2	30	36.1	13.5	49.1
Dyna-Gro	S06RY24	0.6	30	36.4	13.4	28.8
Integra	20090	00.9	29	32.1	13.6	43.1
Integra	20109	0.1	30	35.0	13.5	38.5
Integra	20215	0.1	30	35.9	13.2	49.1
Integra	20300	0.3	30	36.1	14.0	38.5
Legacy	LS00734 NRR2	00.7	29	34.0	13.3	43.6
Legacy	LS0134 RR2	0.1	30	36.6	14.1	40.8
Legacy	LS0214 RR2	0.2	29	36.4	13.5	43.1
Legacy	LS0334 RR2	0.3	29	36.3	13.7	35.5
Legacy	LS00834 RR2	00.8	30	35.8	13.4	49.6
NuTech	6000	0.0	31	34.3	13.2	38.7
NuTech	6007	00.7	30	35.4	13.9	41.0
NuTech	6021	0.2	30	36.4	13.2	42.7
NuTech	6036	0.3	30	35.3	13.8	34.3
NuTech	7063	0.6	30	33.2	13.4	44.8
Peterson	14R02	0.2	30	35.7	14.0	38.4
Peterson	15R04	0.4	30	36.1	13.6	40.6
Peterson	14R008	00.8	29	35.1	13.5	49.5
REA	58G82	00.8	30	33.3	13.8	40.6
REA	61G24	0.1	30	36.5	13.8	45.0
REA	62G22	0.2	28	33.7	13.8	38.1
REA	55G14	00.5	30	34.6	14.0	45.9
Syng NK	S00-A7	00.7	30	34.8	13.4	51.1
Syng NK	S02-B4	0.2	29	33.8	13.5	49.8
Syng NK	S04-D3	0.4	30	34.4	13.3	42.9
Mean			29.7	34.9	13.5	43.1
CV %			2.9	1.9	4.4	8.2
LSD 0.10			1.2	0.9	0.8	4.9

Planted: May 22. Harvested: Oct. 7. Previous crop: barley.

¹DAP = Days after planting.

Table 39. 2014 Soybean - Irrigated, Conventional - Nesson Valley (Williston REC) - Authors, J. Bergman, B. Lamolinare and T. Tjelde.

Company/ Brand	Variety	Maturity Group	Days to Flower (DAP) ¹	Seed Protein (%)	Seed Oil (%)	Seed Yield 2014 ---(bu/a)---
NDSU	Ashtabula	0.4	23	32.2	14.3	31.1
NDSU	Cavalier	00.7	22	31.2	14.4	29.0
NDSU	Sheyenne	0.8	22	31.1	13.9	26.2
NDSU	Trails	0.0	22	33.9	13.8	28.3
Mean			22	32.9	13.9	26.0
CV %			5.7	2.3	1.2	11.2
LSD 0.10			1.9	1.1	0.2	4.3

Planted: May 22. Harvested: Oct. 7. Previous crop: barley.

¹DAP = Days after planting.

Table 40. 2014 Soybean - Roundup Ready - Ransom, Clay/Wilkin and Otter Tail counties - (1 of 2)
Authors, B. Zimprich, G. Mehring, H. Kandel and C. Deplazes.

Company/ Brand	Variety	Maturity Group	-----Ransom-----			2014 Seed Yield	
			Seed Protein	Test Weight	Seed Oil	Ransom County	Avg. 3 location
Early			(%)	(lb/bu)	(%)	------(bu/a)-----	
Dahlman	5405NRR2Y	0.5	33.7	49.3	17.6	52.8	57.9
Dairyland	DSR-0711/R2Y	0.7	32.3	52.3	18.6	54.9	60.6
Hyland	HS 06RY26	0.6	32.8	50.6	18.0	59.4	63.4
Legacy	LS 0634 NRR2	0.6	32.8	51.9	18.0	53.8	57.4
Northstar	NS 629NR2	0.6	32.9	53.9	17.8	55.4	58.1
Nuseed	2051 RR2Y	0.5	32.2	50.8	18.2	61.6	64.2
Nuseed	2074 RR2YN	0.7	32.9	51.7	17.8	55.4	59.8
Stine	06RE02	0.6	32.7	55.6	18.1	48.9	55.5
Thunder	3205 R2Y	0.5	32.8	51.0	17.9	60.8	63.1
Mean			32.8	51.9	18.0	55.9	60.0
CV %			0.8	4.4	0.8	3.8	5.9
LSD 0.10			0.6	NS	0.3	5.3	4.4

Company/ Brand	Variety	Maturity Group	-----Ransom-----			2014 Seed Yield	
			Seed Protein	Test Weight	Seed Oil	Ransom County	Avg. 3 location
Medium			(%)	(lb/bu)	(%)	------(bu/a)-----	
Channel	0807R2	0.8	33.4	54.7	17.7	58.2	59.0
Dahlman	5309NRR2Y	0.9	34.1	53.9	17.5	57.7	55.6
Hefty	H 09R4	0.9	33.9	57.1	17.5	55.5	53.9
Hefty	H 10R4	1.0	32.0	55.3	18.4	56.1	56.7
Hyland	HS 09RYS12	0.9	32.7	54.5	18.1	54.3	56.0
Integra	20815N	0.8	33.7	55.5	17.5	56.8	54.9
Integra	20915N	0.9	32.5	54.6	17.7	61.7	62.3
Legacy	LS 0833 NRR2	0.8	33.3	53.8	17.9	58.3	57.8
Legend	LS 10R551N	1.0	32.7	55.9	18.3	57.9	58.6
Mycogen	5N091R2	0.9	32.7	53.4	18.0	59.3	54.8
Northstar	NS 0839NR2	0.8	33.5	54.2	17.8	57.9	58.2
Northstar	NS 0949R2	0.9	33.6	52.3	18.1	66.2	60.4
Northstar	NS 1040NR2	1.0	32.7	55.4	18.4	55.7	59.3
Nuseed	2093 RR2YN	0.9	34.1	55.6	17.6	56.0	52.4
NuTech	G2 6084 R2	0.8	33.3	53.9	18.5	49.6	53.4
NuTech	G2 6093	0.9	34.4	56.7	17.7	52.6	48.5
NuTech	G2 7104 R2	1.0	34.3	55.8	18.0	59.1	52.9
Peterson	14R09N	0.9	32.6	53.0	17.6	59.5	53.9
Proseed	30-80	0.8	33.3	50.9	18.0	55.9	54.8
REA	69G13	0.9	32.5	55.6	17.9	62.0	61.5
REA	69G14	0.9	31.9	56.2	18.6	57.8	62.3
REA	R0815	0.8	32.0	55.9	17.9	59.3	58.3
Thunder	3408 R2YN	0.8	32.5	56.8	18.3	58.0	59.4
Wensman	W 3080NR2	0.8	32.3	56.7	18.1	58.0	58.7
Wensman	W 3090NR2	0.8	32.5	53.0	17.7	59.8	61.7
Wensman	W 3102NR2	1.0	33.0	54.7	17.6	61.2	62.7
Mean			33.1	54.8	17.9	57.9	57.2
CV %			1.5	2.9	1.3	3.0	5.8
LSD 0.10			1.3	NS	0.6	3.7	7.1

Table 40. 2014 Soybean - Roundup Ready - Ransom, Clay/Wilkin and Otter Tail counties - (2 of 2)
Authors, B. Zimprich, G. Mehring, H. Kandel and C. Deplazes.

Company/ Brand	Variety	Maturity Group	-----Ransom-----			2014 Seed Yield	
			Seed Protein (%)	Test Weight (lb/bu)	Seed Oil (%)	Ransom County	Avg. 3 location (bu/a)
Dairyland	DSR-1340/R2Y	1.3	33.1	51.7	17.2	61.8	52.4
Hefty	H 14R3	1.4	33.5	55.4	17.8	65.1	57.3
Hyland	HS 11RY07	1.4	33.7	54.6	16.9	63.2	53.4
Hyland	HS 15RYS45	1.5	31.8	56.4	18.3	63.5	54.2
Integra	21115N	1.1	34.1	53.4	17.4	62.1	56.0
Legacy	LS 1134 NRR2	1.1	33.5	57.4	18.0	60.7	52.1
Legacy	LS 1314 NRR2	1.3	31.4	53.5	18.0	61.0	52.1
Legend	LS 12R24N	1.2	34.2	57.1	17.7	61.2	58.5
Legend	LS 13R556N	1.3	31.9	48.8	18.3	62.0	57.9
Mycogen	5N122R2	1.2	32.5	54.9	18.5	54.2	48.4
Nuseeds	2122 RR2YN	1.2	32.6	55.3	18.6	58.3	54.7
NuTech	G2 6143	1.4	32.7	56.0	17.6	54.5	50.0
Peterson	14R11N	1.1	34.0	53.2	17.4	63.2	58.2
Peterson	14R13	1.3	33.2	49.9	17.4	64.0	53.4
Peterson	15R14N	1.4	32.8	56.5	17.9	64.4	55.2
Proseed	P2 30-12	1.2	34.3	55.3	18.1	61.8	55.4
REA	R1215	1.2	32.8	54.4	17.2	62.5	58.8
Stine	Stine 11RD00	1.1	33.2	54.9	16.7	56.3	51.2
Thunder	3114 R2Y	1.4	33.3	55.2	17.1	60.6	57.6
Thunder	3511 R2YN	1.1	32.4	54.4	18.3	58.8	53.0
Mean			33.1	54.4	17.7	61.0	54.5
CV %			1.3	1.9	1.2	2.8	8.5
LSD 0.10			1.0	4.2	0.5	4.0	6.4

Table 41. 2014 Soybean - Roundup Ready - Prosper in Cass County, Becker/Mahnomen and Norman counties - (1 of 2)
Authors, G. Mehring, H. Kandel and C. Deplazes.

Company/ Brand	Variety	Maturity Group	-----Prosper-----			2014 Seed Yield	
			Seed Ptoein	Test Weight	Seed Oil	Prosper Cass Co.	Avg. 3 location
			(%)	(lb/bu)	(%)	------(bu/a)-----	
Early							
Dahlman	5203RR2Y	0.3	33.0	56.5	16.6	57.4	54.5
Hefty	02R3	0.2	33.2	56.5	16.7	60.6	53.3
Hyland	HS 01RY02	0.1	32.8	57.2	17.0	59.4	46.9
Integra	20300	0.3	32.9	56.2	17.0	62.6	46.7
Legacy	0214 RR2	0.2	33.0	56.7	17.0	66.0	46.2
Legacy	0334 RR2	0.3	34.1	56.6	16.6	65.0	56.7
Northstar	0318R2	0.3	32.8	56.5	16.7	56.2	48.1
Northstar	0480NR2	0.2	33.3	56.7	16.8	63.0	52.0
Nuseed	2034 RR2YN	0.3	33.2	57.1	16.4	58.3	50.5
Peterson	13R03	0.3	33.1	56.6	16.7	55.7	50.1
Producers	0301R2	0.3	33.2	56.4	16.7	61.1	51.6
Thunder	33009 R2YN	00.9	31.1	57.0	17.7	53.9	38.1
Thunder	3503 R2Y	0.3	35.2	56.8	16.5	58.7	49.7
Mean			33.1	56.7	16.8	59.8	49.6
CV %			1.1	0.4	1	5.1	9.7
LSD 0.10			0.8	NS	0.4	7.2	8.2

Company/ Brand	Variety	Maturity Group	-----Prosper-----			2014 Seed Yield	
			Seed Ptoein	Test Weight	Seed Oil	Prosper Cass Co.	Avg. 3 location
			(%)	(lb/bu)	(%)	------(bu/a)-----	
Medium							
Channel	0707R2	0.7	32.3	56.1	16.7	54.3	47.5
Dahlman	5405NRR2Y	0.5	32.8	56.7	17.0	50.4	48.8
Dairyland	DSR-0514/R2Y	0.5	32.7	56.8	16.8	56.9	47.5
Dairyland	DSR-0711/R2Y	0.7	32.2	56.1	16.9	63.4	53.4
Dyna-Gro	S06RY24	0.6	34.2	56.5	16.2	63.6	56.0
Dyna-Gro	S07RY45	0.7	31.8	56.7	17.1	59.3	52.3
Hefty	H 06Y12	0.6	31.8	56.3	17.1	58.4	51.1
Hyland	HS 05RYS25	0.5	32.0	56.9	16.8	58.2	53.5
Hyland	HS 06RY26	0.6	31.5	56.1	17.1	54.5	53.6
Integra	20600	0.6	31.8	56.4	17.1	61.2	53.5
Legacy	LS 0634 NRR2	0.6	32.9	56.4	16.4	57.4	47.8
Mycogen	5B066R2	0.6	31.8	56.1	17.0	58.4	50.6
Northstar	NS 0537NR2	0.5	31.9	56.5	16.9	66.4	52.5
Nuseed	2051 RR2Y	0.5	31.9	56.5	16.9	61.2	53.6
Nuseed	2074 RR2YN	0.7	33.0	56.2	16.5	52.3	48.4
NuTech	G2 7063	0.6	30.6	56.4	17.8	49.0	50.2
Peterson	14R06N	0.6	33.9	56.4	16.2	60.6	51.4
Peterson	15R05N	0.5	32.6	56.9	17.0	51.4	48.8
Prairie	PB-0777R2	0.7	32.8	56.3	16.7	61.7	50.7
Producers	0602NR2	0.6	34.3	56.5	15.8	52.4	49.4
Proseed	30-60	0.6	32.0	56.1	17.1	64.6	51.1
REA	64G94	0.4	30.5	56.1	18.7	49.2	49.3
REA	66G14	0.6	32.4	56.5	16.7	46.0	44.4
Syng NK	NK S07-B6	0.7	31.4	56.5	17.1	59.0	51.4
Thunder	3205 R2Y	0.5	31.6	56.6	17.2	57.0	52.4
Wensman	W 3032R2	0.4	32.0	56.6	16.9	58.1	53.2
Wensman	W 3062NR2	0.6	34.4	56.9	16.2	57.2	52.8
Mean			32.3	56.4	16.9	57.1	50.9
CV %			0.9	0.4	0.8	6.9	8.2
LSD 0.10			0.6	0.5	0.3	9.4	NS

Table 41. 2014 Soybean - Roundup Ready - Prosper in Cass County, Becker/Mahnomen and Norman counties - (2 of 2)
Authors, G. Mehring, H. Kandel and C. Deplazes.

Company/ Brand	Variety	Maturity Group	Prosper			2014 Seed Yield	
			Seed Ptoein (%)	Test Weight (lb/bu)	Seed Oil (%)	Prosper Cass Co. (bu/a)	Avg. 3 location
Late							
Channel	0807R2	0.8	32.6	55.6	16.7	62.0	49.2
Dyna-Gro	S08RY23	0.8	32.8	56.0	16.7	58.4	52.5
Dyna-Gro	S09RY64	0.9	32.7	55.9	16.4	65.9	57.2
Hyland	HS 09RYS12	0.9	32.5	54.9	17.0	64.4	53.7
Legacy	LS 0833 NRR2	0.8	32.8	55.9	16.6	60.6	52.0
Legend	LS 09R23N	0.9	32.4	55.0	16.6	62.7	51.3
Legend	LS 10R551N	1.0	33.2	54.3	16.6	61.6	52.9
Mycogen	5B081R2	0.8	33.1	56.5	16.3	50.0	49.0
Mycogen	5N091R2	0.9	32.6	56.4	16.7	56.7	53.6
Northstar	NS 0839NR2	0.8	32.6	56.0	17.0	56.3	46.2
NuTech	G2 6083	0.8	32.8	57.2	17.1	56.9	49.8
NuTech	G2 6084 R2	0.8	33.1	56.5	16.9	51.0	44.8
NuTech	G2 6093	0.9	34.6	56.7	16.5	51.1	48.3
Peterson	14R09N	0.9	32.4	55.5	16.6	60.2	55.4
Prairie	PB-0863R2	0.8	32.4	55.7	17.1	56.6	51.4
Proseed	30-80	0.8	32.4	54.8	17.0	70.8	56.1
REA	69G14	0.9	32.4	57.1	17.0	56.2	51.1
REA	R0815	0.8	32.5	56.4	16.7	55.0	53.8
Renk	RS084R2	0.8	32.6	57.0	17.0	58.5	50.0
Syng NK	NK S09-K4	0.9	30.9	57.1	17.1	54.9	48.8
Thunder	3408 R2YN	0.8	33.0	56.2	16.7	63.5	54.8
Wensman	W 3080NR2	0.8	32.6	56.1	16.9	58.6	50.8
Mean			32.7	56.0	16.8	58.7	51.5
CV %			0.7	1.2	0.8	6.7	9.0
LSD 0.10			0.5	1.6	0.3	8.6	5.6

Table 42. 2014 Soybean - Roundup Ready - Steele, Polk and Red Lake/Pennington counties - (1 of 2)
Authors, A. Harstad, G. Mehring, C. Deplazes and H. Kandel.

Company/ Brand	Variety	Maturity Group	-----Steele-----			2014 Seed Yield	
			Seed Ptein	Seed Oil	Test Weight	Steele County	Avg. 3 location
			(%)	(%)	(lb/bu)	------(bu/a)-----	
Early							
Hefty	H 007R4	00.7	31.9	18.1	53.8	28.3	41.8
Hefty	H 008R3	00.8	30.4	19.0	56.3	30.0	41.6
Hyland	HS 006RYS24	00.6	31.5	18.6	58.3	31.3	40.9
Northstar	NS 0080R2	00.6	31.0	18.7	56.6	31.0	41.6
Nuseed	0074 RR2YN	00.7	31.1	18.3	55.2	26.8	38.0
Proseed	30-07	00.7	31.9	17.9	55.6	27.2	39.7
REA	58G82	00.8	32.5	18.1	56.5	26.0	43.6
Syng NK	NK S007-Y4	00.7	30.5	18.9	55.2	30.0	37.6
Thunder	34006 R2Y	00.6	31.9	17.8	57.1	29.5	41.4
Thunder	35007 R2YN	00.7	32.2	18.4	54.2	27.4	40.5
Thunder	Astro R2Y	00.8	30.6	18.4	52.8	37.4	48.3
Mean			31.4	18.4	55.6	29.5	41.4
CV %			1.4	1.7	3.6	10.8	15.3
LSD 0.10			1.1	NS	NS	NS	4.5

Company/ Brand	Variety	Maturity Group	-----Steele-----			2014 Seed Yield	
			Seed Ptein	Seed Oil	Test Weight	Steele County	Avg. 3 location
			(%)	(%)	(lb/bu)	------(bu/a)-----	
Medium							
Dahlman	52009RR2Y	00.9	31.3	18.7	56.5	30.5	35.8
Dahlman	5203RR2Y	0.3	31.9	17.2	56.5	35.0	47.0
Dyna-Gro	34RY03	0.3	31.2	17.9	56.5	37.9	46.0
Hefty	H 01R4	0.1	32.4	17.3	50.8	32.5	43.7
Hefty	H 02R3	0.2	31.2	18.2	56.9	36.3	48.8
Hyland	HS 01RY02	0.1	31.8	17.9	53.7	31.7	44.5
Integra	20126	0.1	32.8	16.8	55.5	30.9	42.9
Integra	20215	0.2	31.5	17.5	56.6	29.9	44.3
Legacy	LS 0134 RR2	0.1	31.7	17.3	57.4	40.4	49.5
Legacy	LS 0214 RR2	0.2	32.1	16.9	54.9	36.1	46.2
Legacy	LS 0334 RR2	0.3	31.6	17.0	56.8	44.9	54.4
Mycogen	5B033R2	0.3	31.2	17.4	54.5	35.1	47.3
Northstar	NS 0096R2	00.9	32.8	16.8	56.7	33.3	41.8
Northstar	NS 0318R2	0.3	31.9	17.3	55.7	35.1	44.9
Northstar	NS 0480NR2	0.2	31.9	17.2	54.3	37.9	48.9
Nuseed	2034 RR2YN	0.3	32.4	16.9	53.1	38.4	47.0
NuTech	G2 6000	0.0	31.6	16.9	56.1	33.6	44.7
NuTech	G2 6021	0.2	32.3	16.9	55.6	33.0	45.4
NuTech	G2 6036	0.3	30.6	17.9	56.7	33.9	46.3
Partners	PB00941R2	00.9	31.5	17.5	56.2	27.4	40.3
Partners	PB0251R2	0.2	32.8	16.9	54.0	32.7	46.9
Partners	PB0351R2	0.3	31.7	17.1	55.0	33.1	46.8
Prairie	PB-0131R2	0.2	31.5	17.2	54.7	31.0	47.9
Producers	0301R2	0.3	32.1	16.6	56.6	42.9	50.4
Proseed	30-20	0.2	32.1	16.8	56.3	36.3	47.4
Proseed	P2 20-30	0.3	32.7	16.6	53.0	36.2	49.6
Renk	RS033R2	0.3	30.7	17.7	57.3	36.2	48.1
Stine	03RD66	0.3	32.4	16.9	56.4	36.6	46.1
Syng NK	NK S009-J1	00.9	32.4	16.9	54.3	36.0	45.8
Thunder	3503 R2Y	0.3	32.2	17.0	56.4	37.8	52.1
Wensman	W 30099R2	00.9	33.4	16.5	57.1	34.6	45.8
Wensman	W 3024R2	0.2	32.0	16.8	56.4	31.6	46.4
Wensman	W 3030R2	0.2	32.6	16.8	57.1	33.6	40.3
Mean			31.9	17.2	55.6	34.9	46.2
CV %			1.6	1.8	3.0	8.7	14.3
LSD 0.10			1.2	0.7	NS	5.9	4.6

Table 42. 2014 Soybean - Roundup Ready - Steele, Polk and Red Lake/Pennington counties - (2 of 2)
Authors, A. Harstad, G. Mehring, C. Deplazes and H. Kandel.

Company/ Brand	Variety	Maturity Group	-----Steele-----			2014 Seed Yield	
			Seed Ptoein	Seed Oil	Test Weight	Steele County	Avg. 3 location
			(%)	(%)	(lb/bu)	------(bu/a)-----	
Channel	0507R2	0.5	31.4	18.2	55.8	36.6	44.6
Channel	0508R2	0.5	30.9	18.3	55.5	37.0	45.3
Dairyland	DSR-0514/R2Y	0.5	31.4	18.2	55.8	36.1	50.5
Dairyland	DSR-0711/R2Y	0.7	31.6	18.1	56.2	39.5	49.3
Dyna-Gro	S04RY55	0.4	30.8	18.5	56.0	39.9	49.5
Dyna-Gro	S06RY24	0.6	31.3	18.3	57.6	40.4	50.7
Dyna-Gro	S07RY45	0.7	31.3	18.0	55.0	41.9	53.2
Hyland	HS 05RYS25	0.5	31.2	18.0	56.3	39.1	50.9
Hyland	HS 06RY26	0.6	31.4	18.1	56.1	46.6	51.1
Integra	20456	0.4	31.0	17.8	56.3	38.1	48.2
Legacy	LS 0634 NRR2	0.6	31.6	18.0	58.7	41.0	48.6
Mycogen	5B040R2	0.4	32.3	17.5	56.0	44.7	51.9
Mycogen	X54070NR2	0.7	31.2	18.1	55.7	43.1	52.8
Nuseed	2051 RR2Y	0.5	31.7	17.5	55.9	47.5	53.3
NuTech	G2 7063	0.6	31.1	17.7	54.9	31.9	45.9
Peterson	14R06N	0.6	31.8	17.8	55.6	40.5	49.0
Peterson	15R04	0.4	30.2	18.9	56.1	36.7	46.7
Peterson	15R05N	0.5	31.2	17.8	56.6	33.5	44.4
Peterson	15R07N	0.7	31.0	18.5	55.2	41.1	44.5
Prairie	PB-0291R2	0.4	32.3	17.7	55.4	36.5	47.5
Prairie	PB-0441R2	0.5	31.3	18.1	56.1	42.6	48.5
Prairie	PB-0598R2	0.5	31.2	18.3	55.4	42.5	48.8
Producers	0602NR2	0.6	31.2	17.3	56.0	38.3	50.7
Proseed	P2 11-50	0.5	31.4	17.7	56.3	46.8	53.4
REA	64G94	0.4	31.8	17.3	57.8	46.6	51.7
REA	65G22	0.5	30.5	18.4	55.3	39.3	48.4
Stine	04RF36	0.4	30.6	18.1	56.0	38.5	45.5
Stine	06RE02	0.6	31.1	18.4	55.8	33.7	45.5
Mean			31.3	18.0	56.0	40.0	48.9
CV %			1.5	2.3	1.5	8.0	10.7
LSD 0.10			NS	NS	NS	7.5	NS

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