

North Dakota Soybean Variety Trial Results for 2012 and Selection Guide

Hans Kandel, Ted Helms, Sam Markell, Chad Deplazes, Grant Mehring and Joel Ransom (NDSU Main Station); Blaine Schatz, Steve Schaubert, Tim Indergaard, Mike Ostlie, Bob Smith and Todd Ingebretson (Carrington Research Extension Center); Walter Albus and Leonard Besemann (Oakes Irrigation Site); Rick Olson (Hettinger Research Extension Center); Eric Eriksmoen, Angela Sebelius and James Tarasenko (North Central Research Extension Center, Minot); Bryan Hanson and Richard Wilhelmi (Langdon Research Extension Center); and Gordon Bradbury, Tyler Tjelde, Cameron Wahlstrom, Chelsey Penuel and Sara Loomer (Williston Research Extension Center).

ACKNOWLEDGEMENTS

We would like to thank the following producer cooperators for contributing their time, labor, land and other material to the 2012 soybean yield trial program in the central and southern Red River Valley sites.

- Gebeke Bros.Arthur, N.D.
- Jon McSparronGrandin, N.D.
- Jeff LeinenGreat Bend, N.D.
- Tyler Speich.....Milnor, N.D.
- Scott and Willard PedersenNorthwood, N.D.
- Allen Lutgen.....LaMoure, N.D.
- Dave and Scott Glauslow.....Walcott, N.D.

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, if appropriate footnotes are given, and if the order of the data is not rearranged and NDSU is credited for the data.

Trials are supported in part by fees collected from entrants of private varieties. We acknowledge the support from the North Dakota Soybean Council for Ted Helms' research project.

Research specialists and technicians helped with the field work and data compilation. Several secretaries assisted with this document by typing information. A special thank you goes to Lisa Johnson, Extension Plant Sciences secretary, for assisting in the compilation of this publication.

NDSU EXTENSION SERVICE

NDSU NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION

Fargo, North Dakota 58108

December 2012

List of Tables

- Table 1. Soil Test Report From Locations Used in Research Conducted by Ted Helms - 2012.
- Table 2. Locations and Planting Dates, 2012 North Dakota Soybean Trials.
- Table 3. Agronomic Characteristics of Public Soybean Varieties Suitable for North Dakota Production.
- Table 4. Full Company Name, Abbreviated Name Used in Tables and Website.
- Table 5. 2012 NDSU Roundup Ready Soybean Iron-deficiency Chlorosis Trial.
- Table 6. 2012 NDSU Conventional and Liberty Link Soybean Iron-deficiency Chlorosis Trial.
- Table 7. 2012 NDSU Soybean Iron-deficiency Chlorosis Yield Trial.
- Table 8. 2012 NDSU Combined Central Roundup Ready Soybean Locations in North Dakota.
- Table 9. 2012 NDSU Combined Central Conventional and Liberty Link Soybean Locations in North Dakota.
- Table 10. 2012 NDSU Combined Southern Roundup Ready Soybean Locations in North Dakota.
- Table 11. 2012 NDSU Combined Southern Conventional and Liberty Link Soybean Locations in North Dakota.
- Table 12. 2012 NDSU Fargo Soybean Saturated-soil Roundup Ready Experiment.
- Table 13. 2012 NDSU Soybean Cyst Nematode-infested Soil, Roundup Ready Soybean Variety Fee Test.
- Table 14. 2012 Soybean - Dryland, Roundup Ready - Carrington.
- Table 15. 2012 Soybean - Irrigated, Roundup Ready - Carrington.
- Table 16. 2012 Soybean - Dryland, Conventional and Liberty Link - Carrington.
- Table 17. 2012 Soybean - Irrigated, Conventional - Carrington.
- Table 18. 2012 Soybean - Dryland, Roundup Ready - Dazey (Carrington REC).
- Table 19. 2012 Soybean - Dryland, Conventional and Liberty Link - Dazey (Carrington REC).
- Table 20. 2012 Soybean - Dryland, Roundup Ready - LaMoure (Carrington REC).
- Table 21. 2012 Soybean - Dryland, Conventional and Liberty Link - LaMoure (Carrington REC).
- Table 22. 2012 Soybean - Dryland, Roundup Ready - Wishek (Carrington REC).
- Table 23. 2012 Soybean - Irrigated, Roundup Ready - Oakes (Carrington REC).
- Table 24. 2012 Soybean - Irrigated, Conventional - Oakes (Carrington REC).
- Table 25. 2012 Soybean - Roundup Ready - Langdon.
- Table 26. 2012 Soybean - Conventional and Liberty Link - Langdon.
- Table 27. 2012 Soybean - Roundup Ready - Cavalier (Langdon REC).
- Table 28. 2012 Soybean - Conventional and Liberty Link - Vesleyville (Langdon REC)
- Table 29. 2012 Soybean - Roundup Ready - Vesleyville (Langdon REC).
- Table 30. 2012 Soybean - Roundup Ready - Lakota (Langdon REC).
- Table 31. 2012 Soybean - Roundup Ready - Minot (North Central REC).
- Table 32. 2012 Soybean - Roundup Ready - McClusky (North Central REC).
- Table 33. 2012 Soybean - Conventional - Minot (North Central REC).
- Table 34. 2012 Soybean - Conventional - Hettinger.
- Table 35. 2012 Soybean - Dryland, Roundup Ready - Williston.
- Table 36. 2012 Soybean - Dryland, Conventional - Williston.
- Table 37. 2012 Soybean - Irrigated, Roundup Ready - Williston.
- Table 38. 2012 Soybean - Irrigated, Conventional - Williston.
- Table 39. 2012 Soybean - Combined Griggs and Steele Counties.

Soybean Variety Selection and Adaptation

Hans Kandel, hans.kandel@ndsu.edu, Extension Agronomist
Sam Markell, samuel.markell@ndsu.edu, Extension Plant Pathologist
Ted Helms, ted.helms@ndsu.edu, NDSU Soybean Breeder

Selection

Soybean variety selection should be based on maturity, yield, seed quality, lodging, iron-deficiency chlorosis tolerance and disease reaction. 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 cultivars 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 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. 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 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 is primarily 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 a variety that likely will yield well across different weather conditions. Selecting a variety that has performed well in dry and moist 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. Most varieties have phytophthora root rot-resistance genes. Each gene for resistance 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. According to a survey of phytophthora races done by NDSU's soybean pathologist, Berlin Nelson, races 3 and 4 are most common in North Dakota. However, numerous other races are found in the state. Based on these findings, resistance genes RPS 6 and RPS 1K (commonly called the K gene) are the most likely genes to provide resistance against the races common in North Dakota. Although selection of RPS 6 or RPS 1K does not guarantee control, selection of one of these two resistance genes will maximize the likelihood of some protection against phytophthora root rot. Because *Phytophthora* races capable of overcoming genes exist, monitoring your field for phytophthora root rot is very important. If the root rot is widespread, switch to a different gene the next time soybean is grown in that field.

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 past history of causing problems. The same pathogen causing white mold in soybeans causes white mold in other crops (dry bean, sunflower, pea, canola, etc.); therefore, recent white mold problems in any crop in that field should be noted.

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 flowering and pod-filling stages. However, IDC during the early vegetative stages can reduce yield 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 2012, IDC scores are provided in Tables 5-6.

Soybean Cyst Nematode

The soybean cyst nematode (SCN), *Heterodera glycines*, is a small parasitic roundworm that attacks the roots of soybeans. Soybean cyst nematode has been found and verified in Richland (2003), Cass (2007), Dickey (2009), LaMoure (2010), Ransom (2010), Barnes (2010), Grand Forks (2010), Traill (2011), Sargent (2011), Steele (2011), Pembina (2011) and Emmons (2011) counties of North Dakota. The soybean cyst nematode likely exists in other counties as well. Growers should consider testing their soils for SCN. Soybean cyst nematode causes yield losses in infested fields. Nematodes are often undetected because above-ground symptoms are uncommon until a 15 to 30 percent yield loss has occurred. Crop rotation and resistance are the most important practices growers must use to manage the disease. If a nematode problem is in the field, resistant soybean varieties should be planted.

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, 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.

Look for trends for the desired trait among different experimental sites and years. Table 4 provides the full company name, abbreviated company name used in the tables and a website for the company.

Table 1. Soil Test Report From Locations Used in Research Conducted by Ted Helms – 2012.

Location	N (lb/a)	P -----ppm-----	K	pH	EC (mmhos/cm)
Arthur	55	8	105	7.9	0.34
Grandin	15	14	320	6.8	0.35
Great Bend	38	20	230	6.9	1.40
Milnor	70	22	310	7.0	0.64
Northwood	49	23	240	5.5	0.24
Walcott	40	7	250	6.3	0.66

Soil sample: 0 to 6 inches.

Table 2. Locations and Planting Dates, 2012 North Dakota Soybean Trials.	
Location Author/Investigator	Material Tested/Planting Date
Arthur, N.D.Ted Helms	Roundup Ready and conventional.....May 14
Grandin, N.D.....Ted Helms	Roundup Ready and conventional.....May 11
Great Bend, N.D.....Ted Helms	Roundup ReadyMay 10
Milnor, N.D.Ted Helms	Roundup Ready and conventional.....May 12
Northwood, N.D.Ted Helms	Roundup Ready and conventional.....May 11
Walcott, N.D.Ted Helms	Roundup Ready and conventional.....May 14
SCN sites.....Ted Helms	Roundup Ready.....May 10,14 and16
IDC sites.....Ted Helms	Roundup Ready.....May 15,16 and 17
Carrington Research Extension Center..... Blaine Schatz, Mike Ostlie, Steve Schaubert and Bob Smith	Dryland, Roundup ReadyMay 14 Irrigated Roundup Ready and conventional.....May 14 Dryland Conventional..... May 14
Barnes County trials, Dazey, N.D.....Blaine Schatz, Mike Ostlie and Tim Indergaard	Dryland, Roundup Ready and conventional.....May 17
LaMoure County trials..... Ted Helms and Blaine Schatz	Roundup Ready and conventional.....May 7
Wishek, ND.....Blaine Schatz, Mike Ostlie and Tim Indergaard	Roundup Ready.....May 16
Oakes Research site.....Walter Albus, Blaine Schatz and Leonard Besemann	Irrigated Roundup Ready and conventional.....May 10
Langdon Research Extension CenterBryan Hanson and Richard Wilhelmi	Roundup Ready.....May 21 Conventional.....May 22
Pembina County, Cavalier, N.D..... Bryan Hanson and Richard Wilhelmi	Roundup Ready.....May 15
Walsh County, Vesleyville, N.D. Bryan Hanson and Richard Wilhelmi	Roundup Ready and conventional.....May 14
Nelson County, Lakota, N.D.....Bryan Hanson and Richard Wilhelmi	Roundup Ready.....May 17
North Central Research Extension Center, Minot, N.D. Eric Eriksmoen, Angela Sebelius and James Tarasenko	Roundup Ready.....May 15
Sheridan County, McClusky, N.D..... Eric Eriksmoen, Angela Sebelius and James Tarasenko	Roundup Ready.....May 10
Hettinger Research Extension Center.....Rick Olson	Roundup Ready and conventional.....April 16
Williston Research Extension Center.....Gordon Bradbury, Sara Loomer and Chelsea Penuel	Dryland Roundup Ready and conventional..... May 17 Irrigated Roundup Ready and conventional.....May 17
Griggs and Steele Counties...Grant Mehring, Chad Deplazes, Hans Kandel and Joel Ransom	Roundup Ready.....May 10

Table 3. Agronomic Characteristics of Public Soybean Varieties Suitable for North Dakota Production.

Variety	Maturity	Fargo Relative		Hilum Color	Remarks ¹
	Group	Maturity	Height		
Jim	00.6	early	short	yellow	7
Cavalier	00.7	early	short	yellow	1, 5
Traill	0.0	early med.	med.	yellow	1, 7
Walsh	0.0	early med.	med.	yellow	1, 5
Nornatto	0.3	med.	short	yellow	3, 7, 9
Nannonatto	0.3	med.	short	yellow	3, 7, 9
Ashtabula	0.4	med.	med.	yellow	1, 5
Prosoy	0.8	med. late	tall	yellow	4, 7, 10
Sheyenne	0.8	med. late	med.	yellow	1, 6
Hamlin	0.9	late	med.	black	1, 4, 5
Surge	0.9	late	med.	imp. black	1, 4
Deuel	1.0	late	med.	black	5
SD1093RR	1.0	late	med.	imp. black	2, 8

¹ Remarks 1 = Good iron chlorosis resistance, 2 = Moderate tolerance to iron chlorosis, 3 = Sensitive to iron chlorosis on high pH soils, 4 = Plant early, 5 = Resistant to races 1-4 of phytophthora root rot, 6 = Resistant to races 1, 2 and 3 of phytophthora root rot, 7 = Susceptible to phytophthora root rot, 8 = Roundup Ready variety, 9 = Natto bean, 10 = Tofu bean.

Table 4. Full Company Name, Abbreviated Name Used in Tables and Website.

Company	Abbreviated	Website
AgVenture Inc.	AgVenture	www.agventure.com
Asgrow	Asgrow	www.asgrowanddekalb.com
BioGene Seeds	BioGene	www.biogeneseeds.com
Channel Bio	Channel Bio	www.channelbio.com
Croplan Genetics Inc.	Croplan	www.croplangenetics.com
Dahlman Seeds	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
G2 Genetics	G2 Genetics	www.nutechseed.com
Gold Country Seed Inc.	Gold Cntry	www.goldcountryseed.com
Hefty Seed Co.	Hefty	www.heftyseed.com
Hyland Seeds	Hyland	www.hylandseeds.com
Integra Seed	Integra	www.integraseed.com
Kruger Seeds Inc.	Kruger	www.krugerseed.com
Legend Seeds Inc.	Legend	www.legendseeds.net
Mustang Brand Seeds	Mustang	www.mustangseeds.com
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/
NuTech Seed	NuTech	www.nutechseed.com
Peterson Farms Seed (PFS)	Peterson	www.petersonfarmsseed.com
Prairie Brand Seed	Prairie	www.prairiebrandseed.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
Roughrider Genetics	Roughrider	www.roughridergenetics.com
Seeds 2000	Seeds 2000	www.seeds2000.net
SoDak Genetics	SoDak	www.roughridergenetics.com/So_Dak.htm
South Dakota State University	SDSU	www.sdstate.edu/ps/sdfssd/index.cfm
Stine Seed Co.	Stine	www.stinseed.com
SunOpta	SunOpta	www.sunopta.com/foods/index.aspx
Syngenta NK Brand	Syng NK	www.nk-us.com
Terning Seed	Terning	www.terningseeds.com
Thunder Seed	Thunder	www.thunderseeds.com
Wensman Seed	Wensman	www.wensmanseed.com
Wolf River Valley Seed	Wolf River	www.wolfrivervalleyseeds.com/soybeans.htm

Table 5. 2012 NDSU Roundup Ready Soybean Iron-deficiency Chlorosis Trial - Author, T. Helms (Page 1 of 2).

Company	Variety	4-site	Company	Variety	4-site	Company	Variety	4-site
		Mean			Mean			Mean
		IDC ¹			IDC ¹			IDC ¹
Asgrow	AG00632	1.6	Dyna-Gro	39RY14	2.4	Kruger	K2-0101	1.4
Asgrow	AG00932	1.6	Dyna-Gro	S008RY43	1.2	Kruger	K2-0402	2.1
Asgrow	AG0202	2.0	Dyna-Gro	S04RY13	2.0	Kruger	K2-0503	2.4
Asgrow	AG0231	1.8	Dyna-Gro	S08RY23	2.3	Kruger	K2X0503A	2.4
Asgrow	AG0301	1.7	Dyna-Gro	S13RY83	2.3	Kruger	K2-0601	1.7
Asgrow	AG0430	1.9	G2 Genetics	0525	1.9	Kruger	K2-0701	2.2
Asgrow	AG0532	1.4	G2 Genetics	6025	2.4	Kruger	K2-0801	2.3
Asgrow	AG0732	1.9	G2 Genetics	6043	2.2	Kruger	K2-0901	2.5
Asgrow	AG0801	2.0	G2 Genetics	6052	1.4	Kruger	K2-1001	2.2
Asgrow	AG0803	2.0	G2 Genetics	6070	1.7	Kruger	K2-1102	2.0
Asgrow	AG0808	1.7	G2 Genetics	6088	2.7	Kruger	K2-1301	2.2
Asgrow	AG0832	2.1	G2 Genetics	6092	1.9	Legend	0.6 Advantage Stack	1.9
Asgrow	AG1132	1.9	G2 Genetics	6098	2.0	Legend	0.9 Advantage Stack	2.0
Asgrow	AG1233	1.9	G2 Genetics	6143	1.8	Legend	03R22	2.1
Asgrow	AG1431	2.6	G2 Genetics	6162	2.1	Legend	05R22N	2.0
Channel	00506RR2	1.6	G2 Genetics	7063	1.8	Legend	06R21	1.5
Channel	00806R2	1.8	G2 Genetics	7110	1.6	Legend	08R22N	2.4
Channel	0205R2	1.5	Gold Cntry	0140	1.7	Legend	09R20	2.2
Channel	0501R2	2.2	Gold Cntry	0241	1.5	Legend	13R21	1.7
Channel	0605R2	2.4	Gold Cntry	0442	2.0	Legend	14R22N	2.2
Channel	0906R2	2.2	Hefty	H004Y12	2.2	Mustang	00913	2.4
Channel	1105R2	2.0	Hefty	H007Y12	1.7	Mustang	00971	1.8
Channel	1405R2	2.6	Hefty	H008Y11	1.8	Mustang	01212	1.6
Dahlman	5108RR2Y	1.9	Hefty	H009Y12	2.0	Mustang	02311	2.7
Dahlman	5113NRR2Y	2.5	Hefty	H00Y12	1.5	Mustang	04403	2.0
Dahlman	5203RR2Y	2.1	Hefty	H02Y12	2.8	Mustang	06942	1.5
Dahlman	5206RR2Y	1.7	Hefty	H04Y11	2.2	Mustang	08733	2.1
Dairyland	DSR-0200/R2Y	1.5	Hefty	H04Y12	2.1	Mustang	12303	1.7
Dairyland	DSR-0404/R2Y	2.2	Hefty	H06Y11	1.4	Mycogen	5B005R2	1.6
Dairyland	DSR-0606/R2Y	1.9	Hefty	H07Y12	1.5	Mycogen	5B007R2	1.7
Dairyland	DSR-0747/R2Y	2.6	Hyland	HS 01RY02	1.7	Mycogen	5B024R2	1.5
Dairyland	DSR-0904/R2Y	2.3	Hyland	HS 04RY03	2.3	Mycogen	5B065R2	2.3
Dairyland	DSR-1215/R2Y	1.7	Hyland	HS 05RYS25	2.4	Mycogen	5B066R2	1.6
Dairyland	DSR-1370/R2Y	1.7	Hyland	HS 09RYS12	2.2	Mycogen	5B080R2	1.7
Dairyland	DSR-C506/R2Y	1.6	Integra	20810	1.8	Mycogen	5B130R2	1.5
Dairyland	DSR-C905/R2Y	1.3	Integra	21102	2.0	Mycogen	5G009R2	1.7
Dyna-Gro	30RY04	1.4	Integra	20090R2Y	2.1	Mycogen	5N110R2	2.1
Dyna-Gro	30RY07	1.6	Integra	20109R2Y	2.3	NorthStar	NS 0057R2	2.0
Dyna-Gro	31RY08	2.3	Integra	20300R2Y	2.1	NorthStar	NS 0077R2	1.6
Dyna-Gro	34RY03	1.6	Integra	20600R2Y	1.7	NorthStar	NS 0096R2	1.8
Dyna-Gro	37RY06	2.3	Integra	20820R2Y	2.3	NorthStar	NS 0098R2	2.4
Dyna-Gro	37RY10	2.2	Integra	78070R	2.6	NorthStar	NS 0108R2	2.3
Mean		2.0			2.0			2.0
LSD (0.10)		0.3			0.3			0.3

Table 5. 2012 NDSU Roundup Ready Soybean Iron-deficiency Chlorosis Trial - Author, T. Helms (Page 2 of 2).

Company	Variety	4-site	Company	Variety	4-site	Company	Variety	4-site
		Mean			Mean			Mean
		IDC ¹			IDC ¹			IDC ¹
NorthStar	NS 0187R2	1.5	Prairie	PB-0510R2	2.4	Seeds 2000	2121 RR2Y	1.8
NorthStar	NS 0318R2	2.2	Prairie	PB-0851R2	2.3	SoDak	SD1093RR	2.3
NorthStar	NS 0618R2	2.3	Prairie	PB-0863R2	2.2	SoDak	SD2091R2Y	2.7
NorthStar	NS 0626R2	2.2	Prairie	PB-0920R2	2.3	SoDak	SD2101R2Y	2.0
NorthStar	NS 0717R2	2.2	Prairie	PB-1061R2	1.7	Stine	01RC62	1.4
NorthStar	NS 0728R2	1.9	Prairie	PB-1266R2	1.9	Stine	01RD66	1.2
NorthStar	NS 0928NR2	2.2	Prairie	PB-X12061	2.0	Stine	02RD00	2.5
NorthStar	NS 1118R2	2.5	Proseed	P2 10-20	1.7	Stine	04RC08	2.2
NorthStar	NS 1257R2	1.9	Proseed	P2 10-80	2.2	Stine	05RC68	2.5
Peterson	11R01	1.8	Proseed	P2 11-07	1.4	Syng NK	S00-A7	1.6
Peterson	11R08	2.5	Proseed	P2 11-10	1.8	Syng NK	S02-B4	1.7
Peterson	11R10	2.0	Proseed	P2 11-110	2.6	Syng NK	S06-H5	2.2
Peterson	12R007	1.5	Proseed	P2 11-50	1.5	Syng NK	S06-R9	2.4
Peterson	12R03	2.3	Proseed	P2 11-60	1.7	Syng NK	S08-G1	2.2
Peterson	12R05	1.6	Proseed	P2 11-90	2.1	Syng NK	S10-G7	1.8
Peterson	12R06	2.5	Proseed	P2 12-70	2.0	Thunder	31009R2Y	1.8
Peterson	12R10	2.2	Proseed	P2 20-08	1.3	Thunder	3114R2Y	1.4
Peterson	12R12	2.0	Proseed	P2 20-30	2.0	Thunder	32005R2Y	1.7
Peterson	13R01	2.4	Proseed	P2 20-70	1.6	Thunder	3201R2Y	1.4
Peterson	13R03	2.0	Proseed	P2 20-90	2.3	Thunder	3202R2Y	2.3
Peterson	13R07	2.1	Proseed	P2 2-140	2.3	Thunder	3205R2Y	1.7
Peterson	13R08N	2.4	REA	53G32	1.7	Thunder	3208R2Y	2.0
Pioneer	90M80	2.5	REA	55G22	1.8	Thunder	3209R2YN	2.4
Pioneer	90Y01	1.6	REA	58G82	2.0	Thunder	3211R2Y	1.9
Pioneer	90Y21	1.8	REA	61G21	1.7	Thunder	33009R2YN	1.3
Pioneer	90Y41	2.0	REA	62G22	1.4	Thunder	3303R2Y	2.0
Pioneer	90Y50	2.3	REA	64G14	2.0	Thunder	3307R2Y	1.9
Pioneer	90Y51	1.9	REA	65G22	1.6	Wensman	W 30084R2	1.7
Pioneer	90Y70	1.7	REA	66G22	2.5	Wensman	W 30088R2	2.4
Pioneer	90Y71	1.7	REA	67G61	2.1	Wensman	W 30091R2	1.7
Pioneer	90Y80	2.2	REA	69G13	2.1	Wensman	W 30099R2	1.6
Pioneer	90Y81	1.7	REA	71G20	2.1	Wensman	W 3030R2	1.5
Pioneer	91Y01	1.9	REA	73G13	2.7	Wensman	W 3032R2	2.0
Pioneer	91Y30	2.0	Renk	RS033R2	2.2	Wensman	W 3050NR2	2.1
Prairie	PB-00560R2	1.5	Renk	RS050RR	2.0	Wensman	W 3058R2	2.4
Prairie	PB-00760R2	2.4	Renk	RS053R2	1.8	Wensman	W 3076R2	2.4
Prairie	PB-00844R2	1.4	Renk	RS082R2	2.4	Wensman	W 3090NR2	2.4
Prairie	PB-00950R2	1.9	Renk	RS122R2	2.3	Wensman	W 3099R2	2.0
Prairie	PB-0131R2	2.3	Seeds 2000	0091 RR2Y	2.0	Wensman	W 3101R2	2.0
Prairie	PB-0240R2	1.6	Seeds 2000	2051 RR2Y	1.6	Wensman	W 3108R2	1.7
Prairie	PB-0441R2	2.2	Seeds 2000	2092 RR2YN	1.8	Wensman	W 3120R2	2.2
Mean		2.0			2.0			2.0
LSD (0.10)		0.3			0.3			0.3

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

Table 6. 2012 NDSU Conventional and Liberty Link Soybean Iron-deficiency Chlorosis Trial - Author, T. Helms.

Company	Variety	4-site Mean IDC ¹	Company	Variety	4-site Mean IDC ¹
Check ²	A11 (early)	1.2	NuTech	3103L	1.9
Asgrow (RR) ³	AG0231	1.7	NuTech	3153L	2.1
Asgrow (RR) ³	AG0301	2.1	Peterson	L009-13	1.7
Asgrow (RR) ³	AG0732	2.1	Peterson	L03-12N	1.4
Asgrow (RR) ³	AG0732	1.8	Peterson	L05-11N	1.9
Asgrow (RR) ³	AG0808	1.6	Peterson	L08-11	2.0
Asgrow (RR) ³	AG0832	1.9	Peterson	L11-13N	1.6
Brushvale	BS 112	1.9	Proseed	LL10-81	1.9
Brushvale	BS 39	1.9	Proseed	LL11-110	2.2
Brushvale	BS 50	1.8	Proseed	LL11-51	1.9
Brushvale	BS 53	1.9	Proseed	LL11-61	1.9
Brushvale	BS 59	1.8	Richland	Challenger	2.0
Brushvale	BS 84	1.9	Richland	MK0205	1.8
G2 Genetics	6043	2.0	Richland	MK0249	2.2
G2 Genetics	6052	1.5	Richland	MK0508	1.5
Gold Cntry	0140	1.8	Richland	MK1016	2.3
Gold Cntry	0241	1.4	Richland	MK831	2.6
Hefty	H008L3	1.8	Richland	MK9101	2.2
Hefty	H0212L	1.7	Richland	Titan	1.8
Integra	30080	2.1	SDSU	Deuel	1.9
Legend	0522LLN	1.8	SDSU	Surge	2.3
Legend	1172LLN	2.1	Seeds 2000	2082L	1.9
NDSU	Ashtabula	1.7	SK Foods	SK 0007	2.5
NDSU	Cavalier	2.1	SK Foods	SK 0034	1.9
NDSU	Nannonatto	2.1	SK Foods	SK 0786	2.4
NDSU	ND1100S	1.2	SK Foods	SK 0796	2.3
NDSU	Nornatto	2.0	SK Foods	SK 095	2.1
NDSU	ProSoy	2.2	SK Foods	SK 918	1.6
NDSU	Sargent	2.8	SK Foods	SK 972	2.5
NDSU	Sargent(2)	2.9	SK Foods	SK 9801	2.5
NDSU	Sheyenne	1.9	SK Foods	SK 9814	2.2
NDSU	Traill	1.8	Stine	06LC26	1.7
NDSU	Traill(2)	1.7	SunOpta	Bravado	1.7
NorthStar	NS 0567NLL	2.2	SunOpta	Excalibur	1.9
NorthStar	NS 1076NLL	1.8	SunOpta	Kassidy	2.3
NorthStar	NS 1128NLL	1.7	SunOpta	Valor	1.7
NuTech	2062L	1.6	Thunder	5205NLL	2.1
NuTech	2088L	1.9	Thunder	5210NLL	1.7
Mean		1.9			1.9
LSD (0.10)		0.3			0.3

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

²A11 is not a commercially grown genotype.

³These RR types were included as additional checks for comparisons.

Table 7. 2012 NDSU Soybean Iron-deficiency Chlorosis Yield Trial, Author, T. Helms.

Company/Brand	Variety	Maturity (date)	IDC Score ¹ (1-5)	2012 Seed Yield			
				Galesburg	Leonard	Erie	Average
Channel	00506B2	9/12	1.7	22.8	29.1	28.2	26.7
Channel	0205R2	9/13	2.0	42.7	25.0	32.1	33.3
Dahlman	5206RR2Y	9/15	1.9	42.7	14.5	36.7	31.3
Dahlman	5203RR2Y	9/17	1.8	32.6	23.8	37.6	31.3
Dyna-Gro	37R06	9/19	1.8	30.2	24.3	24.9	26.5
Dyna-Gro	508RY23	9/20	1.6	0.2	25.1	31.7	19.0
G2 Genetics	6052	9/15	1.6	31.6	23.1	36.5	30.4
G2 Genetics	6070	9/17	1.8	38.2	18.3	31.5	29.3
Integra	20600	9/13	1.6	38.9	24.5	41.0	34.8
Integra	21102	9/19	1.8	25.3	28.2	36.6	30.0
Kruger	K2-0601	9/15	1.8	46.5	28.3	38.8	37.9
Kruger	K2-0402	9/16	1.7	11.0	25.6	33.5	23.4
Kruger	K2-0503	9/19	1.9	17.8	29.3	38.1	28.4
Legend	LS06R21	9/12	1.7	34.6	20.5	37.3	30.8
Legend	LS03R22	9/16	1.5	22.0	24.2	41.2	29.1
Monsanto	AG 0833	9/20	1.7	21.3	22.8	36.7	26.9
Monsanto	AG 0732	9/21	1.9	23.7	22.7	39.0	28.5
Mustang	01212	9/14	1.7	38.8	24.7	36.5	33.3
Mustang	06942	9/17	1.8	44.6	24.2	38.9	35.9
Mycogen	5B024R2	9/12	1.8	40.2	29.1	36.1	35.1
Mycogen	5B065R2	9/17	1.7	25.8	25.3	36.7	29.3
NorthStar	NS0626R2	9/18	1.7	18.7	26.7	32.7	26.0
NorthStar	NS0516R2	9/19	1.8	7.6	20.5	33.6	20.6
NorthStar	NS0717R2	9/21	2.0	12.7	21.9	34.2	22.9
Peterson	11R10	9/22	1.8	26.0	19.4	37.7	27.7
Pioneer	90Y01	9/14	1.6	15.6	24.0	26.8	22.1
Pioneer	90Y21	9/16	1.7	24.5	21.3	29.4	25.1
Proseed	P2 11-50	9/16	1.9	34.1	26.4	35.8	32.1
Proseed	P2 20-30	9/19	1.7	25.9	25.6	35.9	29.1
REA	65G22	9/17	1.7	41.1	25.7	44.8	37.2
REA	66G22	9/23	2.2	9.3	21.6	29.9	20.3
Seeds 2000	0091RR2Y	9/14	1.8	34.1	27.0	32.4	31.2
Seeds 2000	2051RR2Y	9/14	1.7	37.4	26.8	39.5	34.6
Stine	05RC68	9/18	1.8	13.0	20.4	31.9	21.8
Syng NK	S02-B4	9/12	1.6	29.8	27.7	37.8	31.8
Syng NK	S00-A7	9/14	1.8	26.7	20.8	33.1	26.9
Thunder	3205R2Y	9/15	1.8	50.5	25.4	41.8	39.2
Thunder	3201R2Y	9/16	2.0	34.7	22.3	39.5	32.2
Wensman	W 30091R2	9/11	1.7	32.9	27.5	33.0	31.1
Wensman	W 30099R2	9/14	1.6	27.5	25.3	34.6	29.1
Mean		9/16	1.8	28.3	24.2	35.9	29.5
CV %		9.7	30.7	42.7	22.7	19.2	22.9
LSD 0.10		3	0.3	14.3	6.5	8.0	5.1

¹Iron-deficiency chlorosis visual score: 1-best, 5-worst, based on one site.

Table 8. 2012 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			2012 Average	2-yr. Avg.
						Northwood	Arthur	Grandin		
						------(bu/a)-----				
Asgrow	AG0231	9/8	37	15.8	30.6	69.2	32.0	45.0	48.7	51.9
Asgrow	AG0430	9/8	31	16.9	30.7	72.7	40.1	53.9	55.6	55.7
Asgrow	AG0532	9/8	32	15.7	30.7	76.8	35.0	43.0	51.6	52.8
Asgrow	AG0202	9/11	36	15.8	30.7	71.2	32.4	43.8	49.1	--
Asgrow	AG0732	9/11	33	17.0	31.0	80.7	46.9	50.7	59.4	55.8
Channel	00806R2	9/5	35	15.8	32.3	67.8	41.0	45.0	51.3	--
Channel	0205R2	9/6	40	16.2	31.3	71.5	43.9	39.0	51.5	52.8
Channel	0501R2	9/9	35	16.3	31.1	70.6	26.1	40.5	45.7	49.3
Channel	0605R2	9/10	29	16.2	31.3	74.4	28.2	45.7	49.4	49.8
Dahlman	5203RR2Y	9/9	36	16.6	31.6	81.6	36.4	49.1	55.7	--
Dahlman	5206RR2Y	9/11	34	16.7	29.7	84.5	39.3	47.7	57.2	--
Dairyland	DSR-0200/R2Y	9/6	38	16.5	30.1	68.2	34.9	48.6	50.6	52.4
Dairyland	DSR-0404/R2Y	9/9	33	16.6	30.8	81.5	39.3	49.1	56.7	--
Dairyland	DSR-0606/R2Y	9/12	32	17.6	29.6	76.2	38.5	43.5	52.8	--
Dyna-Gro	34RY03	9/6	40	16.7	30.8	69.0	37.8	45.0	50.6	52.3
Dyna-Gro	37RY06	9/10	32	16.3	31.3	77.5	37.8	43.5	53.0	54.3
Dyna-Gro	S04RY13	9/10	36	16.8	31.6	75.6	42.1	47.9	55.2	--
G2 Genetics	6043	9/9	32	16.4	30.5	73.7	37.4	38.4	49.8	--
G2 Genetics	7063	9/9	30	17.2	29.4	71.5	36.7	47.7	52.0	--
G2 Genetics	6070	9/10	35	16.6	30.6	74.6	22.2	45.9	47.6	51.1
G2 Genetics	6052	9/11	36	16.7	30.6	68.2	35.9	41.7	48.6	--
Gold Cntry	0241	9/6	40	15.3	30.8	68.8	39.8	38.9	49.1	--
Gold Cntry	0442	9/9	35	16.7	31.3	69.7	40.9	47.0	52.6	--
Hyland	HS 05YS25	9/11	36	16.6	30.7	76.9	46.9	48.6	57.5	--
Integra	20600	9/11	34	17.0	30.7	81.0	47.6	44.8	57.8	54.0
Integra	78070R	9/13	30	17.8	30.6	85.7	34.3	51.1	57.0	--
Kruger	K2-0402	9/9	36	16.4	30.7	75.5	40.8	46.3	54.2	--
Kruger	K2-0503	9/10	32	16.2	31.4	76.2	38.6	48.5	54.4	--
Kruger	K2-0801	9/12	33	16.2	31.3	82.3	47.3	45.9	58.5	56.2
Kruger	K2-0901	9/12	34	17.1	30.9	73.0	39.6	50.0	54.2	--
Legend	LS 05R22N	9/8	36	17.4	30.3	70.4	36.3	44.9	50.5	--
Legend	LS 03R22	9/10	34	16.7	30.1	83.7	35.2	51.6	56.8	--
Legend	LS .6	9/11	35	16.8	29.7	74.7	41.7	47.7	54.7	--
Mustang	02311	9/6	38	16.9	31.4	62.0	23.1	42.7	42.6	44.8
Mustang	06942	9/9	36	16.2	29.9	79.7	31.2	44.2	51.7	52.5
Mustang	04403	9/11	34	15.4	29.2	86.7	49.7	42.0	59.4	--
Mycogen	5B065R2	9/9	33	17.0	31.2	76.0	42.9	47.5	55.5	55.3
Mycogen	5B066R2	9/10	35	16.2	30.4	81.5	43.4	42.8	55.9	--
NorthStar	NS 0318R2	9/10	37	16.1	31.7	85.3	44.6	49.6	59.9	--
NorthStar	NS 0618R2	9/10	33	17.2	31.5	70.2	48.8	42.3	53.8	--
NorthStar	NS 0626R2	9/12	34	16.7	31.2	74.3	36.6	46.9	52.6	51.7
Peterson	12R03	9/8	35	18.2	29.8	73.9	28.0	46.7	49.5	--
Mean		9/10	34	16.6	30.6	75.0	37.4	45.9	52.7	52.6
CV %		5.5	--	7	5.2	7.7	27.4	13.5	14.5	--
LSD 0.10		2	--	1.5	2.1	7.9	13.8	8.3	6	--

Table 8. 2012 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			2012 Average	2-yr. Avg.
						Northwood	Arthur	Grandin		
Peterson	13R07	9/9	31	16.1	31.9	71.2	44.7	44.0	53.3	--
Peterson	12R06	9/10	32	15.1	28.0	73.4	41.8	50.3	55.2	53.1
Peterson	12R05	9/11	35	15.8	30.3	76.6	36.5	47.8	53.7	54.0
Pioneer	90Y21	9/5	32	17.4	30.3	59.6	34.7	53.3	49.2	--
Pioneer	90Y41	9/9	28	18.4	29.7	64.1	29.1	54.2	49.1	--
Pioneer	90Y50	9/9	37	17.4	30.4	74.2	33.7	42.3	50.1	51.1
Pioneer	90Y51	9/11	32	17.4	29.8	68.0	36.7	39.7	48.1	--
Prairie	PB-0131R2	9/7	30	16.4	31.8	75.1	45.6	43.3	54.7	--
Prairie	PB-0240R2	9/7	38	16.2	30.6	67.8	36.3	42.7	48.9	--
Prairie	PB-0441R2	9/10	32	16.8	30.3	78.5	47.9	44.3	56.9	--
Prairie	PB-0510R2	9/11	33	13.3	30.0	80.0	36.4	47.4	54.6	--
Prairie	PB-0863R2	9/14	35	16.8	31.3	75.5	43.1	43.3	53.9	--
Proseed	P2 11-50	9/10	35	16.7	30.4	73.7	33.8	43.1	50.2	52.6
Proseed	P2 20-30	9/10	36	16.6	31.5	82.8	35.5	46.9	55.1	--
Proseed	P2 11-60	9/11	35	15.8	31.3	75.5	24.5	49.2	49.7	50.5
REA	64G14	9/8	37	18.8	27.8	72.6	26.9	48.7	49.4	--
REA	65G22	9/10	37	16.4	30.3	78.5	32.0	43.1	51.2	53.6
REA	66G22	9/10	31	16.2	32.1	78.8	26.8	41.3	48.9	52.2
REA	67G61	9/12	31	16.1	31.0	79.3	30.4	41.7	50.5	52.0
Seeds 2000	0091RR2Y	9/9	39	15.7	30.1	73.7	29.3	41.5	48.2	49.1
Seeds 2000	2051RR2Y	9/11	36	16.6	29.6	78.7	43.1	46.8	56.2	54.6
Stine	05RC68	9/9	31	15.6	30.0	75.1	28.7	47.0	50.3	51.8
Stine	04RC08	9/11	33	17.1	30.1	78.0	36.9	47.0	54.0	53.7
Syng NK	S02-B4	9/7	39	17.1	29.5	70.0	36.7	46.2	50.9	48.1
Syng NK	S06-R9	9/9	31	16.4	30.1	73.4	37.5	40.8	50.5	--
Syng NK	S06-H5	9/10	36	17.1	31.2	73.0	39.6	46.3	52.9	--
Thunder	3205R2Y	9/11	37	16.0	29.8	80.5	44.7	48.5	57.9	55.4
Thunder	3307R2Y	9/12	35	15.5	31.5	78.2	31.8	42.0	50.7	--
Wensman	W 3050NR2	9/9	35	16.5	31.0	67.0	39.2	43.3	49.8	--
Wensman	W 3058R2	9/9	32	17.3	30.1	75.9	37.1	57.2	56.7	55.3
Wensman	W 3090NR2	9/13	36	17.7	30.4	74.3	44.7	51.0	56.7	--
Wensman	W 3076R2	9/14	32	16.7	30.9	79.5	39.9	45.4	54.9	54.9
Mean		9/10	34	16.6	30.6	75.0	37.4	45.9	52.7	52.6
CV %		5.5	--	7	5.2	7.7	27.4	13.5	14.5	--
LSD 0.10		2	--	1.5	2.1	7.9	13.8	8.3	6	--

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

Table 9. 2012 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	2012 Average	2-yr. Avg.
						------(bu/a)-----				
Asgrow	AG0231 ²	9/8	36	15.8	30.6	66.6	41.6	39.6	49.3	--
Asgrow	AG0732 ²	9/13	31	18.0	30.5	75.1	48.1	42.0	55.0	--
NDSU	Cavalier	9/6	30	16.7	29.5	56.8	29.3	35.1	40.4	37.0
NDSU	Traill	9/6	33	17.1	32.0	54.0	30.2	36.1	40.1	36.5
NDSU	Nannonatto	9/7	30	15.3	31.3	46.7	26.3	34.4	35.8	31.0
NDSU	ND1100S	9/8	36	15.4	29.8	55.9	29.1	38.1	41.0	--
NDSU	Nornatto	9/8	39	14.6	30.5	55.8	33.3	32.5	40.5	35.1
NDSU	ND1005T	9/9	37	16.7	34.4	57.1	32.7	32.3	40.7	--
NDSU	Ashtabula	9/10	36	17.1	29.2	62.9	41.4	37.0	47.1	44.3
NDSU	Sheyenne	9/13	39	16.8	29.5	78.6	51.8	39.8	56.7	49.5
NDSU	ProSoy	9/14	37	16.3	33.9	66.3	47.9	35.5	49.9	44.3
NorthStar	NS 0567NLL	9/13	35	17.1	31.4	73.6	49.3	41.0	54.6	--
NuTech	2062L	9/13	30	14.7	31.4	70.9	46.5	36.6	51.3	50.4
NuTech	2088L	9/19	34	17.0	31.5	70.7	42.3	42.0	51.7	--
Peterson	L03-12N	9/8	30	17.3	31.2	61.1	42.5	39.2	47.6	46.3
Peterson	L05-11N	9/12	35	16.7	31.2	72.2	46.2	39.9	52.8	49.8
Proseed	LL11-51	9/13	37	16.9	30.9	70.8	49.9	40.9	53.9	--
Proseed	LL11-61	9/13	31	16.9	30.2	75.8	45.6	39.7	53.7	--
Proseed	LL10-81	9/14	33	16.2	31.4	75.9	56.1	37.7	56.6	--
Richland	MK0205	9/10	35	17.5	30.6	50.5	29.3	33.7	37.8	--
Richland	MK0508	9/15	36	15.7	30.3	69.8	33.3	35.9	46.3	--
SK Food	SK 0034	9/8	33	17.2	29.1	67.7	40.9	39.8	49.5	37.5
SK Food	SK 972	9/8	34	17.0	31.8	63.4	45.7	34.6	47.9	44.3
SK Food	SK 0786	9/10	36	15.6	34.4	61.2	41.3	40.0	47.5	--
SK Food	SK 918	9/12	35	18.0	31.1	67.2	43.2	40.0	50.1	41.1
Stine	06LC26	9/12	30	17.4	30.1	77.4	40.2	39.2	52.3	49.8
Sun Opta	Valor	9/5	34	16.6	31.5	62.4	31.7	39.1	44.4	41.4
Sun Opta	Excalibur	9/8	33	15.8	35.2	55.5	31.0	30.6	39.0	38.6
Sun Opta	Kassidy	9/10	36	15.2	33.9	65.0	36.4	36.9	46.1	--
SunOpta	Bravado	9/4	32	17.5	29.1	57.4	37.3	34.5	43.1	40.1
Thunder	5205NLL	9/12	35	17.6	30.3	72.3	54.8	40.8	56.0	--
Mean		9/10	34	16.6	31.2	65.0	40.5	37.6	47.7	42.2
CV %		4.7	--	8.2	3.8	8.0	18.5	7.1	11.5	--
LSD 0.10		3	--	1.8	1.6	7.1	4.2	3.6	4.3	--

¹Maturity is date of 95 percent brown or tan pods.²These two varieties are Roundup Ready and were included as checks.

Table 10. 2012 NDSU Combined Southern Roundup Ready Soybean Locations in North Dakota - Author, T. Helms (Page 1 of 2).

Company/ Brand	Variety	Maturity ¹ (date)	Lodging ² (0-5)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield			2012 Average	2-yr. Avg.
							Great Bend	Milnor	Walcott		
------(bu/a)-----											
Asgrow	AG0732	9/13	1.2	37	15.3	28.6	72.0	70.9	46.1	63.0	53.6
Asgrow	AG0832	9/16	1.7	41	17.4	31.8	76.3	71.8	57.3	68.5	--
Asgrow	AG1132	9/18	1.0	39	17.1	30.7	71.6	83.6	51.5	68.9	--
Asgrow	AG1431	9/19	1.5	41	17.5	30.8	72.0	77.0	48.1	65.7	56.8
Channel	0605R2	9/13	2.0	37	16.1	32.3	72.5	75.8	51.4	66.6	--
Channel	0906R2	9/15	1.5	36	17.2	30.9	78.7	69.2	53.0	67.0	--
Channel	1105R2	9/17	2.8	42	15.9	32.6	69.7	77.2	54.3	67.1	56
Channel	1405R2	9/20	1.8	41	17.1	31.5	76.2	76.5	51.6	68.1	--
Dahlman	5108RR2Y	9/15	1.5	39	16.6	31.5	66.8	72.5	56.1	65.1	--
Dahlman	5113RR2Y	9/20	1.0	40	16.6	31.2	73.9	77.4	48.0	66.4	--
Dairyland	DSR-0904/R2Y	9/13	1.5	38	17.0	31.5	71.0	72.0	56.3	66.4	--
Dairyland	DSR-606/R2Y	9/13	1.7	40	16.9	31.4	61.6	78.1	43.6	61.1	--
Dairyland	DSR-1215/R2Y	9/23	2.7	45	16.2	30.8	79.4	76.6	45.8	67.3	52.8
Dyna-Gro	31RY08	9/15	1.2	38	16.7	31.4	66.0	76.7	53.5	65.4	57.4
Dyna-Gro	37RY10	9/15	2.3	43	16.9	32.4	78.4	77.8	51.1	69.1	59.3
Dyna-Gro	S08RY23	9/15	1.5	38	17.1	30.9	76.4	75.5	54.8	68.9	--
Dyna-Gro	S13RY93	9/23	2.5	43	15.7	31.3	81.1	80.6	56.8	72.8	--
G2 Genetics	6098	9/13	1.3	41	19.6	30.9	65.3	70.5	33.7	56.5	47.2
G2 Genetics	6092	9/14	2.5	42	16.5	32.2	60.8	73.4	46.7	60.3	51.3
G2 Genetics	7110	9/15	1.5	41	16.7	31.6	68.1	68.7	46.5	61.1	--
G2 Genetics	6088	9/16	1.3	34	16.2	32.8	83.0	69.0	53.8	68.6	57.5
Hyland	HS 09RYS12	9/12	1.7	40	17.4	30.3	68.5	74.5	52.5	65.2	--
Integra	20810	9/14	1.0	39	16.6	31.5	70.7	70.7	53.2	64.8	58.9
Integra	21102	9/16	3.3	43	16.0	32.0	71.0	72.2	53.4	65.5	54.5
Kruger	K2-0601	9/12	2.3	39	16.4	31.2	72.2	68.8	55.0	65.3	55.8
Kruger	K2-0801	9/14	1.7	39	17.1	31.8	70.9	76.2	58.2	68.4	54.5
Kruger	K2-0901	9/15	1.2	38	17.9	30.3	70.6	78.9	55.0	68.2	--
Kruger	K2-1102	9/21	2.5	44	15.6	31.8	76.5	81.6	51.2	69.8	57.7
Legend	LS 08R22N	9/15	1.8	40	16.9	31.7	75.1	77.2	58.3	70.2	--
Legend	LS 09R20	9/16	2.2	40	17.3	31.1	67.9	76.5	56.8	67.1	--
Legend	LS 9	9/16	1.7	40	16.6	32.4	74.8	71.2	53.5	66.5	--
Legend	LS 13R21	9/24	2.3	42	14.8	27.7	89.2	77.9	46.3	71.1	--
Mustang	08733	9/14	1.8	38	15.5	33.1	68.5	72.4	54.6	65.2	--
Mycogen	5B080R2	9/9	1.8	40	16.6	31.0	67.1	67.7	47.5	60.8	50.7
Mycogen	5N110R2	9/16	2.2	44	16.1	31.2	65.0	76.1	44.6	61.9	--
Mycogen	5B130R2	9/24	3.5	43	15.7	31.8	76.7	85.5	40.5	67.6	56.5
NorthStar	NS 0717R2	9/14	1.5	38	16.9	30.7	66.1	78.0	50.8	65.0	49.7
NorthStar	NS 1257R2	9/17	1.8	39	17.2	30.9	69.3	69.5	51.4	63.4	51.6
NorthStar	NS 1118R2	9/18	1.7	42	16.6	32.4	80.6	77.0	51.3	69.6	--
Peterson	11R08	9/14	2.2	39	16.7	31.4	65.7	72.5	54.6	64.3	54.5
Peterson	11R10	9/15	2.2	41	16.5	31.7	74.4	73.6	54.6	67.5	55.4
Peterson	13R08N	9/15	1.5	42	17.3	30.3	73.1	79.7	55.8	69.6	--
Peterson	12R10	9/17	2.5	40	16.4	32.1	75.3	72.7	56.5	68.2	57.5
Mean		9/16	1.9	40	16.6	31.5	71.4	73.8	51.9	65.7	53.9
CV %		5.5	45.0	--	7.2	4	10.1	8.7	9.2	9.4	--
LSD 0.10		2	0.7	--	1.6	1.7	9.8	8.7	6.5	4.8	--

Table 10. 2012 NDSU Combined Southern Roundup Ready Soybean Locations in North Dakota - Author, T. Helms (Page 2 of 2).

Company/ Brand	Variety	Maturity ¹ (date)	Lodging ² (0-5)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield			2012 Average	2-yr. Avg.
							Great Bend	Milnor	Colfax		
Pioneer	90Y80	9/10	1.8	43	17.3	31.2	70.4	68.0	51.1	63.2	48.2
Pioneer	90Y70	9/12	1.5	38	17.0	31.0	65.1	69.2	50.8	61.7	46.6
Pioneer	90Y81	9/14	2.0	42	16.5	31.4	62.9	68.9	51.4	61.1	--
Pioneer	91Y01	9/15	2.2	40	17.0	31.5	69.0	62.7	49.0	60.3	--
Prairie	PB-0863R2	9/13	1.2	38	18.8	29.1	69.9	76.8	57.3	68.0	--
Prairie	PB-1040R2	9/16	2.0	39	16.0	31.6	69.1	68.5	51.0	62.9	--
Prairie	PB-0510R2	9/11	1.7	36	16.9	31.1	69.2	70.9	58.3	66.1	--
Prairie	PB-0851R2	9/16	1.8	37	15.2	32.4	76.7	77.4	56.8	70.3	--
Prairie	PB-0920R2	9/17	2.0	40	17.1	30.2	77.4	73.3	62.0	70.9	--
Prairie	PB-1061R2	9/20	2.5	44	16.1	32.3	73.8	79.0	61.5	71.4	--
Proseed	P2 20-90	9/14	3.2	35	16.0	32.0	72.4	65.1	52.8	63.4	--
Proseed	P2 11-90	9/15	1.5	39	16.7	31.5	59.8	74.0	55.7	63.2	53.8
Proseed	P2 11-110	9/17	2.2	40	16.5	32.1	68.2	78.7	60.1	69.0	--
Proseed	P2 2-140	9/21	1.3	42	17.2	30.8	68.6	78.1	52.6	66.4	--
REA	69G13	9/13	1.7	40	17.4	30.4	71.3	75.3	58.1	68.3	--
REA	71G20	9/17	2.3	42	16.4	31.1	78.4	76.1	51.1	68.5	52.1
REA	72G21	9/22	2.0	44	16.1	33.5	71.5	79.7	39.2	63.5	--
Renk	RS082R2	9/14	1.8	39	14.4	32.9	72.2	75.5	53.6	67.1	55.3
Renk	RS053R2	9/15	1.2	38	17.3	31.3	68.5	79.1	40.9	62.8	--
Renk	RS122R2	9/24	2.2	44	15.5	32.2	76.6	76.1	51.5	68.1	53.9
Seeds 2000	2051RR2Y	9/14	2.0	40	16.4	31.3	74.2	66.1	54.4	64.9	55.1
Seeds 2000	2091RR2Y	9/17	2.5	43	17.5	30.4	68.1	77.9	46.1	64.0	53
Seeds 2000	2121RR2Y	9/17	3.0	40	16.1	32.4	68.3	75.8	52.5	65.6	54.7
SoDak	SD1093RR	9/14	2.2	41	17.1	31.8	65.2	71.4	49.9	62.2	50.7
SoDak	SD2101R2Y	9/14	1.8	41	16.6	32.1	75.4	80.5	49.0	68.3	--
SoDak	SD2091R2Y	9/18	2.2	44	16.5	31.3	76.7	75.0	44.9	65.5	--
Syng NK	S08-G1	9/14	2.0	37	16.2	32.5	75.4	68.1	52.1	65.2	--
Syng NK	S06-H5	9/8	1.3	40	17.5	31.7	60.8	60.4	49.2	56.8	--
Syng NK	S06-R9	9/11	2.5	38	16.2	30.9	67.3	63.8	51.3	60.8	--
Syng NK	S10-G7	9/14	2.3	39	16.1	32.8	64.0	69.7	55.8	63.2	55.9
Thunder	3108R2Y	9/13	1.7	38	15.9	32.3	69.4	65.9	54.0	63.1	51.8
Thunder	3209R2Y	9/13	2.0	40	17.5	31.1	71.5	69.8	42.7	61.3	48.7
Thunder	3211R2Y	9/17	2.5	41	16.0	32.0	70.4	72.7	50.7	64.6	53.7
Wensman	W 3076R2	9/15	1.3	40	16.4	32.1	73.0	79.0	59.1	70.4	--
Wensman	W 3090NR2	9/15	1.2	39	16.9	31.0	72.7	71.3	52.8	65.6	--
Wensman	W 3108R2	9/15	2.5	40	16.9	31.5	69.0	68.6	54.2	63.9	53.8
Wensman	W 3099R2	9/17	1.5	40	16.5	32.1	65.7	77.9	54.0	65.9	58.4
Mean		9/16	1.9	40	16.6	31.5	71.4	73.8	51.9	65.7	53.9
CV %		5.5	45.0	--	7.2	4	10.1	8.7	9.2	9.4	--
LSD 0.10		2	0.7	--	1.6	1.7	9.8	8.7	6.5	4.8	--

¹Maturity is date of 95 percent brown or tan pods.²Lodging score: 1-upright, 5-flat on ground.

Table 11. 2012 NDSU Combined Southern Conventional and Liberty Link Soybean Locations in North Dakota - Author, T. Helms.

Company/ Brand	Variety	Maturity ¹ (date)	Lodging ² (0-5)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield			2012 Average	2-yr. Average
							Great Bend	Milnor	Walcott		
							------(bu/a)-----				
Asgrow	AG0732 ³	9/15	1.0	36	18.0	29.2	66.9	62.9	40.1	56.6	--
Asgrow	AG0808 ³	9/20	2.8	41	17.4	32.3	63.8	65.1	47.8	58.9	--
Asgrow	AG0832 ³	9/19	2.2	39	17.3	29.4	63.0	73.5	45.7	60.7	--
Brushvale	BS 39	9/17	1.7	35	15.8	30.6	52.7	56.9	9.5	39.7	--
Brushvale	BS 50	9/17	1.5	36	16.3	30.6	56.2	46.0	13.3	38.5	30.1
Brushvale	BS 53	9/18	2.7	39	15.0	32.3	39.9	54.3	23.7	39.3	--
Brushvale	BS 59	9/16	1.7	31	15.9	35.7	53.9	41.7	7.8	34.5	--
NDSU	Ashtabula	9/10	2.2	39	17.4	27.5	52.3	64.0	34.5	50.3	34.7
NDSU	Nannonatto	9/9	4.0	24	17.9	28.0	30.2	43.8	14.0	29.3	--
NDSU	ND1005T	9/12	2.8	36	15.2	29.6	45.2	47.8	42.9	45.3	--
NDSU	ND1100S	9/7	4.0	30	18.9	29.1	46.2	41.9	8.0	32.0	--
NDSU	Nornatto	9/7	3.7	32	17.1	34.0	40.3	44.4	18.0	34.3	--
NDSU	ProSoy	9/19	3.3	42	17.0	30.7	52.0	57.8	32.9	47.6	37.4
NDSU	Sheyenne	9/17	2.1	41	16.9	32.1	61.7	71.4	38.7	57.2	43.6
NorthStar	NS 1076NLL	9/20	2.3	38	16.1	31.9	69.0	72.6	47.2	62.9	48.4
NorthStar	NS 1128NLL	9/20	3.2	40	17.2	32.7	72.1	63.6	45.0	60.2	--
NuTech	3103L	9/17	2.3	39	17.0	31.0	56.5	61.4	46.9	54.9	--
NuTech	3153L	9/25	1.5	39	17.5	31.5	58.2	76.6	54.1	63.0	--
Peterson	L11-13N	9/21	3.3	38	16.7	31.6	65.2	66.2	42.8	58.0	--
Peterson	L08-11	9/17	2.7	40	17.3	32.0	67.1	73.2	43.5	61.3	46.6
Proseed	LL10-81	9/20	2.2	35	16.9	29.2	62.6	74.6	30.5	55.9	--
Proseed	LL11-110	9/19	1.8	40	17.4	30.4	66.6	72.6	28.9	56.0	--
Richland	Challenger	9/26	4.2	39	17.3	30.1	53.6	70.9	33.5	52.7	--
Richland	MK0508	9/16	2.7	38	16.6	32.2	39.1	53.4	25.5	39.4	--
Richland	MK831	9/12	2.2	34	16.0	30.2	44.5	50.6	19.5	38.2	--
Richland	Titan	9/13	1.2	40	17.7	34.0	64.6	68.6	28.9	54.0	--
SDSU	Deuel	9/23	2.5	43	17.7	32.5	65.7	77.7	32.4	58.6	43.3
SDSU	Surge	9/18	2.2	37	16.6	31.3	56.0	63.9	26.1	48.7	36.3
Seeds 2000	2082L	9/19	2.7	39	17.2	30.9	72.5	76.5	47.7	65.6	--
SK Food	SK 0786	9/15	2.7	40	16.0	35.2	52.1	56.1	35.1	47.8	--
SK Food	SK 0796	9/14	2.8	35	15.6	35.2	50.6	54.2	29.9	44.9	--
SK Food	SK 095	9/15	3.3	33	16.1	32.8	43.2	51.9	9.7	34.9	27.2
SK Food	SK 9801	9/17	2.3	38	16.1	32.2	54.1	66.5	43.9	54.8	42.4
Thunder	5210NLL	9/19	2.0	41	17.9	28.8	59.9	75.3	35.6	56.9	--
Mean		9/17	2.5	37.0	16.9	31.4	55.8	61.7	31.9	49.8	39.0
CV %		8.4	40.8	--	5.2	5.6	15.1	13.8	30.0	17.9	--
LSD 0.10		3	1.0	--	1.2	2.4	11.6	11.7	13.1	7.1	--

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

²Lodging score: 1-upright, 5-flat on ground.

³These three varieties are Roundup Ready and were included as checks.

Table 12. 2012 NDSU Fargo Soybean Saturated-soil Roundup Ready Experiment - Author, T. Helms.

Company/Brand	Variety	Maturity ¹ (date)	Seed Yield		
			Dry ²	Wet ³	Average
			------(bu/a)-----		
Pioneer	90Y21	9/8	25.1	18.8	22.0
Channel	00506R2	9/10	30.3	10.3	20.3
Pioneer	90Y01	9/10	31.6	17.5	24.6
Integra	20600	9/11	22.0	27.4	24.7
Peterson	11R08	9/11	27.1	35.3	31.2
Syng NK	S06-R9	9/11	34.5	28.1	31.3
Integra	20810	9/12	30.7	25.6	28.2
Kruger	K2-0402	9/12	32.2	25.8	29.0
Legend	LS03R2	9/12	37.5	44.6	41.0
NorthStar	0516R2	9/12	25.4	25.7	25.6
Seeds 2000	2051RR2Y	9/12	43.1	31.7	37.4
Stine	05RC68	9/12	29.6	36.1	32.9
Wensman	W 3050NR2	9/12	39.6	25.3	32.5
Wensman	W 3090NR2	9/12	29.6	28.6	29.1
Channel	00806R2	9/13	27.1	19.4	23.2
Dahlman	5206RR2Y	9/13	32.5	29.9	31.2
Dyna-Gro	37RY06	9/13	36.8	28.7	32.7
Mycogen	5B080R2	9/13	33.6	26.3	30.0
REA	65G22	9/13	39.9	29.0	34.4
REA	66G22	9/13	34.6	42.3	38.4
Wensman	W 3058R2	9/13	39.4	30.4	34.9
Dyna-Gro	S13RY93	9/14	27.1	14.6	20.9
Seeds 2000	0091RR2Y	9/14	28.4	20.0	24.2
Kruger	K2-0901	9/15	33.0	29.5	31.3
Mycogen	5B065R2	9/15	34.8	29.8	32.3
Peterson	12R06	9/15	39.9	27.6	33.7
Proseed	P2 11-60	9/15	31.6	36.4	34.0
REA	67G61	9/15	32.8	27.2	30.0
Seeds 2000	2091RR2Y	9/15	34.1	26.3	30.2
Syng NK	S06-H5	9/15	30.3	26.6	28.4
Pioneer	90Y50	9/16	30.1	32.6	31.3
Syng NK	S02-B4	9/16	34.6	11.8	23.2
Asgrow	AG 0833	9/17	33.1	16.8	25.0
NorthStar	0853RR	9/17	20.9	18.0	19.4
Proseed	P2 11-90	9/17	26.4	21.1	23.7
Dahlman	5108RR2Y	9/18	38.0	28.7	33.4
Proseed	P2 20-90	9/18	37.3	39.0	38.1
Asgrow	AG0832	9/20	34.7	36.1	35.4
Integra	20820	9/20	34.6	34.7	34.7
Mean		9/14	32.4	27.3	29.8
CV %		--	22.3	34.4	28.4
LSD 0.10		4	9.8	8.9	9.3

¹Maturity is date of 95 percent brown or tan pods.²Dry yield is rainfed without supplemental irrigation.³Wet yield is irrigated to simulate a wetter than average year.

Table 13. 2012 NDSU Soybean Cyst Nematode-infested Soil, Roundup Ready Soybean Variety Fee Test - Author, T. Helms.

Company	Variety	Maturity ¹ (date)	Lodging ² (1-5)	Arthur	Wyndmere	Wolverton	2012
				Yield	Yield	Yield	3-site
				------(bu/a)-----			
Mycogen	5H009R2	9/5	1.3	17.3	40.1	16.8	24.7
Dyna-Gro	S008RY43	9/5	1.0	17.1	26.5	14.2	19.3
Proseed	P2 20-08	9/6	1.0	17.9	33.6	11.0	20.8
Stine	01RC62	9/6	1.3	14.6	50.1	10.5	25.1
Asgrow	AG00932	9/7	1.3	49.5	59.3	19.3	42.7
Legend	LS 05R22N	9/7	1.3	26.1	41.9	18.8	28.9
Asgrow	AG0732	9/9	1.0	48.0	69.1	21.8	46.3
Integra	20902N	9/9	1.0	50.8	62.1	22.4	45.1
Syng NK	S06-H5	9/9	1.8	51.7	63.6	18.3	44.5
Kruger	K2-0402	9/10	1.0	29.8	59.9	17.5	35.7
REA	64G14	9/10	1.0	34.5	54.2	17.0	35.2
Pioneer	91Y10	9/10	1.0	51.5	61.2	26.8	46.5
Channel Bio	0906R2	9/10	1.0	36.8	67.8	20.6	41.7
Dyna-Gro	S04RY13	9/11	1.0	25.6	59.2	17.0	34.0
Syng NK	S08-G1	9/11	1.0	36.7	52.3	19.7	36.2
Pioneer	90Y41	9/11	1.0	41.5	53.0	18.3	37.6
Susceptible check ³	AG0801	9/11	1.5	21.4	34.5	13.0	23.0
Dyna-Gro	S08RY23	9/11	1.3	40.4	71.0	23.5	45.0
G2 Genetics	7063	9/11	1.3	46.6	63.6	25.8	45.3
Mycogen	5N090R2	9/11	2.3	42.8	66.7	24.0	44.5
Channel Bio	0501R2	9/12	1.3	47.4	59.3	22.7	43.1
Pioneer	90Y81	9/12	2.5	52.4	66.4	22.7	47.2
REA	69G13	9/12	1.5	40.2	69.4	24.2	44.6
Asgrow	AG0833	9/12	1.8	40.9	69.2	21.3	43.8
G2 Genetics	7110	9/12	1.3	45.6	61.6	23.2	43.5
Legend	LS 08R22N	9/12	1.3	42.6	69.2	22.0	44.6
G2 Genetics	6088	9/12	1.0	11.8	46.7	16.5	25.0
Kruger	K2-0901	9/12	1.0	41.0	68.4	22.5	44.0
Dahlman	5109NRR2Y	9/12	1.8	55.3	64.3	33.2	50.9
Mycogen	5N110R2	9/12	2.0	54.0	71.3	23.5	49.6
Peterson	13R08N	9/12	1.0	37.8	65.5	27.4	43.6
Proseed	P2 20-90	9/12	1.8	30.5	53.6	18.9	34.3
Seeds 2000	2092RR2YN	9/13	1.8	48.8	69.1	24.6	47.5
Peterson	13R13N	9/18	1.3	19.1	54.8	17.4	30.4
NorthStar	0928NR2	9/18	2.3	31.4	62.2	22.9	38.8
Proseed	P2 2-140	9/21	1.5	41.9	64.7	33.1	46.6
Average		9/11	1.4	37.1	58.5	20.7	38.8
CV %		8.8	50.9	18.9	12.8	27.7	16.7
LSD 0.10		3.0	0.8	8.0	8.6	6.5	4.4

¹Maturity date to 95% brown or tan pods.

²Lodging score: 1-upright, 5-flat on ground.

³Susceptible check: AG0801 has no resistance to SCN and was used for a comparison only.

Table 14. 2012 Soybean - Dryland, Roundup Ready - Carrington - Authors, B. Schatz, M. Ostlie and B. Smith (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	
											2012	3-yr. Avg. -----(bu/a)----
Asgrow	AG0430	0.4	9/7	12	27	0	3,009	19.1	33.4	56.5	49.0	53.9
Asgrow	AG0532	0.5	9/8	8	28	0	2,722	18.5	33.6	56.9	50.5	--
Dairyland	DSR-C905/R2Y	0.9	8/30	8	26	0	3,345	19.6	32.7	57.0	47.0	--
Dairyland	DSR-0200/R2Y	0.2	9/1	10	32	0	2,383	18.5	33.8	57.6	50.3	--
Dairyland	DSR-0404/R2Y	0.4	9/9	11	29	0	3,097	19.2	33.0	56.1	54.8	--
Dairyland	DSR-0606-R2Y	0.6	9/12	8	26	0.7	3,148	19.3	34.0	56.8	44.5	--
Dairyland	DSR-0747/R2Y	0.7	9/13	13	29	0	3,024	18.9	34.0	57.1	50.7	54.3
Dyna-Gro	34RY03	0.3	9/2	10	34	0	2,431	18.7	33.8	57.1	53.9	--
Dyna-Gro	S0RY13	0.4	9/7	12	27	0	2,741	19.3	33.5	56.6	45.4	--
Dyna-Gro	37RY06	0.6	9/9	10	26	0	3,048	19.3	33.7	56.1	49.8	--
Dyna-Gro	S08RY23	0.8	9/11	11	28	0	2,896	19.7	33.6	56.2	52.3	--
G2 Genetics	6025	0.2	9/2	9	28	0	2,804	19.5	33.6	56.4	47.4	--
G2 Genetics	6043	0.4	9/9	11	28	0.3	2,592	19.2	34.1	56.0	48.3	--
G2 Genetics	525	0.5	9/7	8	36	0	3,632	19.2	33.3	56.3	45.9	--
G2 Genetics	6052	0.5	9/9	11	35	0	2,925	19.5	34.1	57.1	49.7	--
G2 Genetics	7063	0.6	9/7	11	25	0	3,104	20.5	32	55.8	47.3	--
G2 Genetics	6070	0.7	9/9	10	28	0	2,916	19.4	33.3	56.6	44.7	51.2
G2 Genetics	6088	0.8	9/13	12	26	0.5	3,208	19.5	32.9	56.4	51.7	53.8
G2 Genetics	6092	0.9	9/9	14	31	0	3,024	19.4	32.6	57.5	45.4	--
G2 Genetics	6098	0.9	9/10	13	28	0	2,863	20.0	32.1	56.4	55.2	54.4
Hefty	H004Y12	0.4	9/10	10	30	0.3	2,766	19.3	33.6	56.1	51.9	--
Hefty	H00Y12	0.0	9/6	7	22	0	2,827	19.7	33.2	56.2	38.3	--
Hefty	H02Y12	0.2	9/2	11	34	0	2,652	19.0	34.9	57.1	51.3	--
Hefty	H04Y11	0.4	9/5	9	27	0	2,631	18.4	34.0	56.9	42.8	--
Hefty	H04Y12	0.4	8/30	8	29	0	3,018	20.3	32.3	56.5	43.9	--
Hefty	H06Y11	0.6	9/9	11	38	0.3	3,461	19.7	32.4	57.0	54.9	--
Hefty	H07Y12	0.7	9/12	11	30	0.3	2,831	19.8	33.0	56.3	55.4	--
Hyland	HS 01RY02	0.1	9/3	9	31	0	2,495	18.7	33.2	57.3	53.0	--
Hyland	HS 04RY03	0.4	9/4	11	27	0	2,652	17.9	34.8	57.2	48.0	53.5
Integra	20109 R2Y	0.1	9/7	11	22	0	2,581	18.5	34.7	57.2	48.3	--
Integra	20300 R2Y	0.3	9/10	10	26	0	3,018	19.4	32.9	56.3	59.8	--
Integra	20600 R2Y	0.6	9/9	11	29	0	2,868	18.9	32.9	56.7	49.7	--
Integra	20820 R2Y	0.8	9/11	11	25	0.3	2,861	19.5	33.6	56.0	50.0	--
Kruger	K2-0092	0.9	9/9	13	32	0	2,932	19.5	33.6	56.1	59.5	--
Kruger	K2-0101	0.1	9/2	10	35	0	2,422	18.7	34.4	57.4	49.3	--
Kruger	K2-0402	0.4	9/8	10	30	0	2,711	19.4	33.4	56.2	48.6	--
Kruger	K2-0503	0.5	9/9	11	27	0	3,016	19.3	33.2	55.8	50.3	--
Kruger	K2-0504	0.5	9/11	9	24	0.5	2,892	19.6	33.2	56.1	49.0	--
Kruger	K2-0601	0.6	9/9	11	32	0	2,821	18.9	33.7	56.5	55.1	--
Kruger	K2-0701	0.7	9/14	11	33	0.5	2,702	19.8	32.2	56.5	48.8	--
Kruger	K2-0801	0.8	9/11	9	28	0	2,918	19.5	33.3	56.8	56.8	54.7
Kruger	K2-0901	0.9	9/12	13	27	0	2,827	19.8	33.2	56.3	54.9	--
Kruger	K2-1001	1.0	9/11	14	32	0.8	2,910	19.1	33.7	56.6	58.4	55.4
Legend	LS 03R22	0.3	9/9	14	30	0	3,084	19.0	33.6	56.2	55.9	--
Legend	LS 04R22	0.4	9/12	9	28	0.3	2,775	19.0	33.4	56.0	60.9	--
Legend	LS 05R22N	0.5	9/8	13	31	0.3	2,689	19.3	33.7	56.5	47.7	--
Legend	0.6 Advantage Stack	0.6	9/10	12	32	0.3	2,885	19.1	33.0	56.3	56.3	--
Legend	LS 06R21	0.6	9/10	12	34	0	2,866	18.7	33.1	56.5	59.4	--
Mustang	04403	0.4	9/10	12	30	0	3,000	19.3	32.9	56.2	53.1	--
Mustang	6942	0.6	9/10	12	32	0.3	2,865	19.1	32.6	56.2	60.6	--

Table 14. 2012 Soybean - Dryland, Roundup Ready - Carrington - Authors, B. Schatz, M. Ostlie and B. Smith (Page 2 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	
											2012	3-yr. Avg. -----(bu/a)----
Mustang	08733	0.8	9/11	10	27	0	2,874	19.2	33.4	56.2	48.3	--
Mycogen	5B024R2	0.2	9/3	10	33	0	2,455	18.5	34.1	57.4	50.2	--
Mycogen	5B065R2	0.6	9/9	11	26	0	3,035	19.1	33.7	56.0	52.5	--
Mycogen	5B080R2	0.8	9/7	11	29	0	3,190	18.9	33.6	56.9	47.9	--
NorthStar	NS0187R2	0.2	9/4	8	24	0	2,781	19.6	33.7	56.6	45.5	--
NorthStar	NS0318R2	0.3	9/10	13	28	0	3,078	19.1	32.9	56.2	52.7	--
Peterson	12R03	0.3	9/7	12	27	0.3	3,029	19.4	33.7	56.7	56.6	--
Peterson	12R05	0.5	9/10	11	30	0	2,902	18.8	33.1	56.4	59.3	--
Peterson	12R06	0.6	9/10	10	24	0	2,998	19.4	33.7	55.5	49.0	--
Pioneer	90Y21	0.2	8/30	9	27	0	2,715	19.9	33.5	57.2	45.1	--
Pioneer	90Y41	0.4	9/8	8	24	0	2,643	20.9	31.9	55.7	42.3	--
Pioneer	90Y50	0.5	9/9	12	32	0	2,866	19.8	32.7	57.0	48.2	53.6
Pioneer	90Y70	0.7	9/11	11	25	0	2,679	20.7	32.0	56.7	52.7	52.4
Prairie	PB-0240R2	0.2	9/2	10	36	0	2,496	18.8	33.9	57.4	48.7	--
Prairie	PB-0441R2	0.3	9/9	12	28	0	3,116	19.5	33.0	56.0	52.1	--
Prairie	PB-0510R2	0.5	9/9	10	29	0	3,091	19.1	33.7	55.9	51.5	--
Prairie	PB-0863R2	0.8	9/11	12	27	0	2,945	19.7	33.1	56.2	49.9	--
Prairie	PB-1061R2	1.0	9/13	15	34	0.8	2,728	19.0	34.9	56.6	50.7	--
Prairie	PB-1120R2	1.1	9/17	12	32	0.3	2,531	18.8	33.9	55.5	43.3	--
Proseed	P2 10-08	0.8	9/9	12	27	0	3,119	19.1	33.4	57.0	50.5	--
Proseed	P2 20-00	0.0	9/9	13	27	0	2,856	19.7	33.3	56.5	49.1	--
Proseed	P2 11-10	0.1	9/7	7	22	0.3	2,860	20.2	32.6	56.1	45.5	--
Proseed	P2 10-20	0.2	9/3	9	31	0	2,588	18.6	33.4	57.5	48.1	53.9
Proseed	P2 20-30	0.3	9/9	13	21	0	2,965	19.3	32.8	56.3	50.4	--
Proseed	P2 11-50	0.5	9/9	14	30	0.3	2,921	19.0	32.6	56.5	59.7	--
REA	64G14	0.4	9/8	10	28	0	2,672	19.4	33.9	56.4	48.1	--
REA	65G22	0.5	9/8	13	30	0	2,874	18.9	33.3	56.4	55.7	--
REA	66G22	0.6	9/9	10	26	0	2,990	19.4	33.5	55.8	54.2	--
REA	67G61	0.7	9/11	12	28	0	2,967	19.5	33.5	56.5	52.5	53.5
Renk	RS033R2	0.3	9/10	11	30	0	3,122	19.2	32.8	56.2	56.4	--
Renk	RS050RR	0.5	9/9	12	32	0	3,224	19.9	32.9	56.4	49.8	51.9
Renk	RS053R2	0.5	9/12	9	27	0.5	2,760	20.2	31.8	56.3	59.5	--
Renk	RS082R2	0.8	9/11	11	29	0.3	2,935	19.7	33.2	56.8	51.2	--
Seeds 2000	2051 RR2Y	0.5	9/10	13	27	0	2,879	18.7	33.6	56.3	51.3	--
Stine	02RD00	0.2	9/9	11	27	0	2,572	18.6	34.6	56.9	50.0	--
Stine	03RD66	0.3	9/9	11	29	0	3,077	19.0	33.7	56.3	52.6	--
Thunder	31009R2Y	0.9	9/6	10	34	0	2,585	19.5	32.3	57.4	59.6	--
Thunder	33009R2YN	0.9	8/30	9	26	0	3,309	19.5	32.9	57.3	44.6	--
Thunder	3201R2Y	0.1	9/6	7	22	0	2,824	19.6	34.0	55.9	43.8	--
Thunder	3202R2Y	0.2	9/10	12	27	0	3,088	19.6	33.3	56.0	50.0	--
Thunder	3303R2Y	0.3	9/10	13	28	0	3,212	18.8	33.8	56.1	56.5	--
Thunder	3205R2Y	0.5	9/11	12	28	0	2,812	18.5	32.7	56.6	57.0	--
Wensman	W 3030R2	0.3	9/2	12	32	0	2,463	18.7	33.9	57.6	48.2	--
Wensman	W 3032R2	0.3	9/10	12	27	0	3,053	19.2	33.0	56.3	53.2	--
Wensman	W 3050NR2	0.5	9/8	12	33	0	2,764	19.3	33.7	56.4	46.5	--
Wensman	W 3058R2	0.5	9/9	11	24	0	2,976	19.3	33.9	55.9	52.8	--
Wensman	W 3090NR2	0.7	9/10	10	27	0	2,894	19.5	33.3	56.5	52.3	--
Wensman	W 3076R2	0.7	9/12	13	27	0.3	2,767	19.8	33.0	55.9	55.7	--
Mean			9/8	11	29	0.1	2,882	19.3	33.3	56.5	51.1	53.6
CV %			1.3	18.3	13.0	297	3.9	2.0	2.0	0.7	10.0	--
LSD 0.10			1.8	2.3	4.4	0.3	129	0.4	0.8	0.4	5.9	--

Planted: May 14. Harvested: Sept. 24. Previous crop: field pea.

¹Maturity is date of 95 percent brown or tan pods

²Lodging score: 1-upright, 5-flat on ground.

Table 15. 2012 Soybean - Irrigated, Roundup Ready - Carrington - Authors, B. Schatz, M. Ostlie and S. Schaubert (Page 1 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	2012	3-yr. Avg.	
		(date)		(cm)	(inch)	(0-9)	(seeds)	(%)	(%)	(lb/bu)	-----	(bu/a)	-----
Asgrow	AG0333	0.3	9/13	17	44.3	3.3	2,891	19.6	32.7	56.9	58.9	--	
Asgrow	AG0430	0.4	9/13	18	43.4	2.0	3,007	18.3	33.7	57.7	56.6	--	
Asgrow	AG0532	0.5	9/13	18	43.9	1.8	2,826	17.9	33.9	57.9	62.4	--	
Dairyland	DSR-0200/R2Y	0.2	9/7	10	45.7	1.8	2,268	19.1	32.2	58.0	52.9	--	
Dairyland	DSR-0404/R2Y	0.4	9/11	20	42.9	2.0	3,007	18.1	34.4	56.9	61.3	--	
Dairyland	DSR-0606-R2Y	0.6	9/14	13	40.6	2.5	3,149	18.9	33.1	57.4	65.0	--	
Dairyland	DSR-0747/R2Y	0.7	9/20	21	51.6	3.8	2,846	19.3	32.3	57.3	51.6	57.1	
Dairyland	DSR-C905/R2Y	00.9	9/3	8	43.6	2.3	3,341	17.9	33.8	57.1	56.4	--	
Dyna-Gro	34RY03	0.3	9/7	11	46.9	1.5	2,211	18.1	34.2	58.2	56.3	--	
Dyna-Gro	37RY06	0.6	9/13	17	41.9	2.0	2,849	18.7	33.7	57.4	60.7	--	
Dyna-Gro	S08RY23	0.8	9/19	18	42.6	2.0	2,744	18.1	33.8	56.8	62.9	--	
Dyna-Gro	S0RY13	0.4	9/12	15	45.6	3.0	2,529	19.1	32.7	57.3	60.3	--	
G2 Genetics	0525	0.5	9/12	10	50.4	1.8	3,391	20.1	33.5	57.3	56.8	--	
G2 Genetics	6025	0.2	9/9	11	39.6	1.3	2,640	19.2	33.1	56.7	55.0	--	
G2 Genetics	6043	0.4	9/12	19	40.7	1.0	2,494	19.5	32.6	57.3	53.4	--	
G2 Genetics	6052	0.5	9/15	23	50.4	2.3	2,681	19.6	33.4	57.8	53.5	--	
G2 Genetics	6070	0.7	9/15	18	42.7	1.8	2,743	19.2	32.0	56.6	59.0	59.4	
G2 Genetics	6088	0.8	9/20	21	40.4	1.8	3,077	19.1	33.7	57.1	57.4	58.1	
G2 Genetics	6092	0.9	9/17	19	46.1	2.8	2,814	18.4	34.0	58.1	60.9	--	
G2 Genetics	6098	0.9	9/16	18	46.7	1.8	2,795	19.0	32.9	57.3	58.2	60.1	
G2 Genetics	7063	0.6	9/14	17	43.8	2.5	3,081	19.0	31.8	57.3	56.4	--	
Hyland	HS 01RY02	0.1	9/9	12	49.2	2.5	2,462	18.2	32.9	57.7	55.6	--	
Hyland	HS 04RY03	0.4	9/11	18	46.9	2.3	2,649	18.4	34.0	57.6	57.7	60.7	
Kruger	K2-0092	00.9	9/13	15	43.1	3.3	2,838	19.6	32.7	56.8	55.9	--	
Kruger	K2-0101	0.1	9/8	9	45.5	2.0	2,281	18.3	34.2	58.3	51.0	--	
Kruger	K2-0402	0.4	9/11	19	45.3	3.0	2,552	18.7	33.4	57.3	62.0	--	
Kruger	K2-0503	0.5	9/13	18	39.2	3.0	2,865	18.6	33.6	57.3	67.6	--	
Kruger	K2-0504	0.5	9/16	23	41.5	1.5	2,634	18.8	33.4	57.1	64.7	--	
Kruger	K2-0601	0.6	9/16	19	44.3	3.0	2,681	18.7	32.9	57.5	56.6	--	
Kruger	K2-0701	0.7	9/20	14	47.2	3.0	2,745	18.9	32.6	57.2	58.5	--	
Kruger	K2-0801	0.8	9/13	23	38.1	2.0	2,778	18.6	33.1	57.6	66.2	63.1	
Kruger	K2-0901	0.9	9/17	19	42.3	2.0	2,733	19.3	33.3	56.9	66.6	--	
Kruger	K2-1001	1.0	9/18	19	47.3	3.3	2,823	18.4	33.4	57.1	56.1	59.2	
NorthStar	NS0187R2	0.2	9/6	12	37.6	1.8	2,784	19.3	33.4	57.1	59.7	--	
NorthStar	NS0318R2	0.3	9/10	23	41.9	1.8	3,136	18.6	33.3	57.2	62.5	--	
Peterson	12R03	0.3	9/10	20	42.7	3.5	3,120	19.0	32.9	57.2	61.7	--	
Peterson	12R06	0.6	9/14	19	38.8	2.8	2,930	18.3	34.1	57.5	65.0	--	
Pioneer	90Y21	0.2	9/9	17	42.5	1.8	2,565	19.9	33.1	57.3	57.3	--	
Pioneer	90Y41	0.4	9/9	10	33.1	1.0	2,649	21.2	31.5	56.1	56.9	--	
Pioneer	90Y50	0.5	9/14	18	47.0	2.3	2,874	19.1	33.2	57.6	55.8	59.2	
Pioneer	90Y70	0.7	9/15	14	45.1	2.3	2,684	19.2	32.6	57.5	60.8	61.6	
Prairie	PB-0441R2	0.3	9/11	21	42.1	2.0	3,044	18.9	32.9	57.2	65.2	--	
Prairie	PB-0510R2	0.5	9/14	20	42.7	2.5	2,805	18.6	33.6	57.3	62.3	--	
Prairie	PB-0863R2	0.8	9/17	20	42.3	2.0	2,718	19.2	33.0	56.8	61.4	--	
Prairie	PB-0920R2	0.9	9/18	24	42.5	2.3	2,867	19.3	33.3	56.6	55.3	--	
Prairie	PB-1061R2	1.0	9/20	22	44.1	2.8	2,517	18.6	34.9	57.3	49.9	--	
REA	64G14	0.4	9/13	18	46.7	2.0	2,514	18.6	33.7	57.4	57.5	--	
REA	65G22	0.5	9/14	16	45.9	2.3	2,814	19.0	32.1	57.1	63.7	--	
Mean			9/13	17.3	43.2	2.3	2,801	18.9	33.2	57.3	59.6	59.9	
CV %			--	24.7	5.2	25.1	2.8	1.9	1.4	0.5	8.2	--	
LSD 0.10			--	4.9	2.6	0.7	91	0.4	0.6	0.3	5.7	--	

Table 15. 2012 Soybean - Irrigated, Roundup Ready - Carrington - Authors, B. Schatz, M. Ostlie and S. Schaubert (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	2012	Avg.
				(cm)	(inch)	(0-9)	(seeds)	(%)	(%)	(lb/bu)	----- (bu/a) -----	
REA	66G22	0.6	9/14	19	38.8	2.3	2,850	18.8	33.7	57.4	70.9	--
REA	67G61	0.7	9/15	16	40.3	2.5	2,851	18.3	33.0	57.8	59.1	61.0
Renk	RS033R2	0.3	9/9	23	40.0	2.0	3,009	18.7	33.4	57.4	63.4	--
Renk	RS050RR	0.5	9/15	17	47.8	3.0	3,071	18.8	33.1	57.0	59.7	--
Renk	RS053R2	0.5	9/16	21	41.3	1.5	2,617	19.5	32.7	57.1	63.1	--
Renk	RS082R2	0.8	9/14	21	39.4	2.5	2,908	18.4	33.3	57.5	61.3	--
Seeds 2000	2051 RR2Y	0.5	9/14	20	44.4	2.3	2,686	18.6	32.8	57.0	63.3	--
Thunder	31009R2Y	0.9	9/5	12	46.3	2.5	2,485	18.5	33.5	57.9	48.6	--
Thunder	3201R2Y	0.1	9/6	13	36.6	1.3	2,727	19.2	32.5	57.1	59.3	--
Thunder	3202R2Y	0.2	9/15	22	42.5	2.0	3,303	19.4	33.5	57.0	58.4	--
Thunder	3205R2Y	0.5	9/15	15	44.5	2.8	2,724	19.1	33.1	57.2	62.4	--
Thunder	33009R2YN	0.9	9/5	12	41.8	2.5	3,265	18.3	33.7	57.0	58.3	--
Thunder	3303R2Y	0.3	9/11	20	43.9	2.8	2,993	18.3	32.6	57.1	64.5	--
Wensman	W 3032R2	0.3	9/10	23	41.1	1.5	3,017	18.8	33.2	57.3	63.6	--
Wensman	W 3050NR2	0.5	9/12	16	44.7	2.8	2,542	18.8	33.5	57.2	60.4	--
Wensman	W 3058R2	0.5	9/13	25	39.8	2.5	2,909	18.1	33.8	57.5	63.2	--
Wensman	W 3076R2	0.7	9/15	23	40.7	2.3	2,672	18.6	33.8	56.8	60.9	--
Wensman	W 3090NR2	0.9	9/18	19	41.9	2.3	2,740	19.3	32.8	56.9	60.9	--
Mean			9/13	17.3	43.2	2.3	2,801	18.9	33.2	57.3	59.6	59.9
CV %			--	24.7	5.2	25.1	2.8	1.9	1.4	0.5	8.2	--
LSD 0.10			--	4.9	2.6	0.7	91	0.4	0.6	0.3	5.7	--

Planted: May 14. Harvested: Sept. 27. Previous crop: soybean.

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

Table 16. 2012 Soybean - Dryland, Conventional and Liberty Link - Carrington -Authors, B. Schatz, M. Ostlie and B. Smith.

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	
										2012	3-yr. Avg.
Gold Cntry	0140	00.9	8/29	9	31.9	2,529	18.9	33.3	57.1	61.3	--
Gold Cntry	0241	0.2	8/30	11	30.1	2,492	18.7	33.6	57.3	56.5	--
Legend	LS 0522LLN	0.5	9/5	14	26.6	3,003	20.0	33.6	56.3	60.0	--
NDSU	Ashtabula	0.4	8/31	10	28.5	3,032	20.8	32.1	56.7	58.0	53.8
NDSU	Cavalier	00.9	8/24	8	26.8	2,761	19.4	33.1	57.6	55.4	48.8
NDSU	ND1005T	0.5	9/3	10	33.4	2,630	18.5	37.8	57.2	53.9	43.4
NDSU	ProSoy	0.8	9/6	17	31.6	2,793	18.8	35.8	56.1	53.0	44.0
NDSU	Sheyenne	0.7	9/5	13	31.3	3,183	19.8	31.7	56.5	58.1	50.1
NDSU	Traill	0.0	9/25	8	28.8	2,809	19.0	35.2	57.6	52.1	44.9
Peterson	L03-12N	0.3	9/3	11	22.4	3,256	19.6	34.6	57.1	51.5	--
Peterson	L05-11N	0.5	9/6	16	31.1	2,814	19.8	33.8	56.3	58.1	--
Pioneer	91M10	1.0	9/8	16	27.6	2,852	19.9	35.2	56.5	57.1	--
Richland	MK0205	0.2	9/4	8	28.0	5,405	19.7	34.1	57.8	43.0	36.8
Richland	MK0249	0.2	9/5	13	28.9	3,018	20.0	33.0	56.4	57.9	--
Richland	MK0508	0.8	9/9	15	32.1	5,393	18.3	33.8	57.1	50.0	42.4
Richland	MK831	0.8	9/3	11	28.7	3,440	18.6	35.8	57.6	49.2	--
SK Foods	SK 0007	000.4	8/19	7	23.3	2,725	18.8	36.4	58.1	41.2	--
SK Foods	SK 0034	0.0	9/2	11	26.6	4,492	19.2	33.5	56.9	55.3	--
SK Foods	SK 095	0.9	9/9	11	33.7	5,749	18.2	35.2	57.6	49.1	--
SK Foods	SK 0786	0.7	9/3	12	27.8	2,891	18.8	36.9	56.4	54.4	--
SK Foods	SK 0796	0.7	9/4	10	27.4	2,836	18.4	36.9	56.5	53.9	--
SK Foods	SK 918	0.5	9/7	11	27.6	3,851	20.0	33.3	56.5	57.7	--
SK Foods	SK 972	0.3	9/4	11	27.4	2,778	19.8	34.5	57.3	57.0	--
Mean			9/3	11	29	3,271	19.4	34.1	56.8	54.1	45.5
CV %			1.2	23.7	12.3	3.7	2.2	2.2	0.7	8.0	--
LSD 0.10			1.7	3.2	4.1	141	0.5	0.9	0.4	5.2	--

Planted: May 14. Harvested: Sept. 21. Previous crop: field pea.

¹Maturity is date of 95 percent brown or tan pods.**Table 17. 2012 Soybean - Irrigated, Conventional - Carrington - Authors, B. Schatz, M. Ostlie and S. Schaubert.**

Company/ Brand	Variety	Mat. Group	Maturity ¹ (date)	Seeds/ Pound (seeds)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield	
								2012	2-Yr Avg.
NDSU	Ashtabula	0.4	9/10	3,192	19.0	31.9	57.2	59.3	64.0
NDSU	Cavalier	00.9	9/5	2,779	17.7	34.1	58.1	55.4	57.7
NDSU	ND1005T	0.5	9/12	2,741	17.9	36.4	57.5	47.6	52.8
NDSU	ProSoy	0.8	9/18	2,919	17.4	37.1	56.4	38.8	49.0
NDSU	Sheyenne	0.7	9/14	3,164	18.2	32.5	57.5	56.8	64.1
NDSU	Traill	0.0	9/10	2,921	17.8	34.7	58.4	52.0	53.5
Pioneer	91M10	1.0	9/18	3,179	18.4	32.0	57.4	58.6	--
SunOpta	Bravado	0.2	9/10	3,414	18.4	33.7	57.1	48.7	59.0
SunOpta	Excalibur	0.5	9/11	2,754	17.0	38.3	57.7	54.0	55.4
SunOpta	Kassidy	0.6	9/14	2,946	16.9	37.1	57.6	47.3	--
SunOpta	Valor	0.3	9/11	3,087	17.2	34.8	57.6	55.8	58.0
Mean			9/13	3,065	18.1	34.1	57.5	52.2	57.1
CV %			1.0	2.7	3.2	3.7	0.5	10.2	--
LSD 0.10			1.5	98	0.7	1.8	0.3	6.4	--

Planted: May 17. Harvested: Sept. 26. Previous crop: soybean.

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

Table 18. 2012 Soybean - Dryland, Roundup Ready - Dazey (Carrington REC) - Authors, B. Schatz, M. Ostlie and T. Indergaard (Page 1 of 2).

Company/ Brand	Variety	Mat. Group	Pod Ht	Plant Ht	Maturity	Seeds/ Pound	Seed Oil	Seed Protein	Test Weight	Seed Yield		
										2012	2-yr. Avg.	3-yr. Avg.
										----- (bu/a) -----		
Channel Bio	0605 R2	0.6	19	28	9/1	3,261	19.1	32.2	56.2	60.8	--	--
Channel Bio	0906 R2	0.8	12	30	9/2	2,918	19.5	32.6	55.3	66.7	--	--
Dairyland	DSR-0200/R2Y	0.2	10	32	8/27	2,417	19.1	31.3	55.9	58.3	--	--
Dairyland	DSR-0404/R2Y	0.4	13	28	9/2	3,037	19.1	32.0	55.8	64.3	--	--
Dairyland	DSR-0606-R2Y	0.6	11	26	9/3	3,486	19.3	31.5	55.5	54.4	--	--
Dairyland	DSR-0747/R2Y	0.7	12	29	9/3	2,919	19.2	31.8	55.8	54.4	58.5	60.2
Dairyland	DSR-0904/R2Y	0.8	16	28	9/3	2,969	19.5	31.8	55.6	56.5	--	--
Dairyland	DSR-1215/R2Y	1.2	17	31	9/7	2,885	18.6	32.0	54.9	50.1	--	--
Dyna-Gro	37RY06	0.6	14	27	9/2	3,145	18.9	32.8	56.1	53.4	57.2	--
Dyna-Gro	S08RY23	0.8	12	28	9/3	2,925	19.6	31.8	55.4	59.9	--	--
Dyna-Gro	31RY08	0.8	15	27	9/2	3,021	19.1	32.2	55.3	51.2	57.8	--
Dyna-Gro	37RY10	1.0	16	30	9/3	3,041	18.9	32.8	55.4	54.7	58.6	--
G2 Genetics	525	0.5	11	32	8/31	3,517	19.1	31.3	55.9	51.2	--	--
G2 Genetics	6052	0.5	17	29	9/1	2,789	19.7	32.3	55.8	47.4	53.5	--
G2 Genetics	7063	0.6	14	25	8/31	3,236	19.9	31.2	55.7	50.1	--	--
G2 Genetics	6070	0.7	12	25	9/2	2,975	19.1	32.0	55.9	61.4	62.9	61.7
G2 Genetics	6088	0.8	14	26	9/5	3,291	18.8	32.0	54.6	53.3	56.7	59.5
G2 Genetics	6092	0.9	14	29	9/2	3,147	19.1	31.8	55.5	55.4	57.9	--
G2 Genetics	6098	0.9	14	29	9/2	2,897	20.0	30.5	56.6	57.0	60.0	59.9
Hyland	HS 04RY03	0.4	17	29	8/31	2,576	17.6	32.6	56.8	49.5	--	--
Hyland	HS 05RYS25	0.5	17	29	9/2	2,832	19.1	31.3	55.8	54.4	--	--
Integra	78070R	0.7	14	26	9/4	3,306	19.2	32.1	55.6	50.1	57.0	59.6
Integra	20810	0.8	13	27	9/5	3,035	18.7	32.2	56.3	58.3	62.4	--
Kruger	K2-0092	0.9	14	28	8/31	3,269	19.4	32.2	55.4	49.8	--	--
Kruger	K2-0101	0.1	11	32	8/28	2,572	18.9	31.3	56.0	55.3	60.8	--
Kruger	K2-0402	0.4	14	30	8/31	2,881	19.2	32.2	56.0	49.3	--	--
Kruger	K2-0503	0.5	16	27	9/1	3,134	19.2	32.0	56.0	57.1	--	--
Kruger	K2-0504	0.5	13	24	9/3	2,890	19.7	31.9	55.5	61.2	--	--
Kruger	K2-0601	0.6	17	29	9/1	3,063	18.1	32.0	56.2	53.5	58.6	--
Kruger	K2-0701	0.7	13	32	9/4	2,531	19.2	31.9	55.8	51.3	54.0	--
Kruger	K2-0801	0.8	15	28	9/2	3,020	19.2	32.2	55.7	54.6	59.8	58.8
Kruger	K2-0901	0.9	12	28	9/3	3,013	19.9	32.1	55.4	56.8	--	--
Kruger	K2-1001	1.0	16	27	9/6	2,789	19.0	32.4	54.8	63.8	61.1	62.7
Legend	LS 05R22N	0.5	15	30	8/31	2,893	18.9	32.5	56.3	53.4	--	--
Legend	Advantage Stack	0.6	16	28	9/1	3,071	18.5	32.2	56.0	54.9	--	--
Legend	LS 06R21	0.6	14	29	9/1	2,986	18.3	32.0	56.0	53.1	58.9	--
Legend	LS 08R22N	0.8	15	28	9/3	2,858	19.3	32.4	55.1	57.0	--	--
Mustang	4403	0.4	13	26	9/2	2,973	19.2	32.2	55.7	64.2	--	--
Mustang	6942	0.6	18	29	9/1	3,038	18.1	32.1	56.4	58.8	59.4	--
Mustang	8733	0.8	16	27	9/3	2,963	19.0	32.4	55.5	50.4	--	--
Mycogen	5B065R2	0.6	14	26	9/2	3,178	18.8	33.0	55.8	55.1	60.6	--
Mycogen	5B066R2	0.6	17	30	9/1	3,077	18.5	31.2	56.1	61.3	--	--
Mycogen	5B080R2	0.8	14	30	9/2	3,222	19.1	31.8	56.6	56.9	57.3	--
Mean			14	28	9/2	2,995	19.1	32.0	55.7	55.6	58.1	58.7
CV %			22.1	7.7	0.9	3.3	2.3	1.9	1.2	9.3	--	--
LSD 0.10			3.6	2.5	1.1	114	0.5	0.7	0.8	6.0	--	--

Table 18. 2012 Soybean - Dryland, Roundup Ready - Dazey (Carrington REC) - Authors, B. Schatz, M. Ostlie and T. Indergaard (Page 2 of 2).

Company/ Brand	Variety	Mat. Group	Pod Ht	Plant Ht	Maturity	Seeds/ Pound	Seed Oil	Seed Protein	Test Weight	Seed Yield		
										2012	2-yr. Avg.	3-yr. Avg.
			(cm)	(inch)	(date)	(seeds)	(%)	(%)	(lb/bu)	----- (bu/a) -----		
NorthStar	NS0626R2	0.6	15	28	9/2	2,905	19.1	32.0	56.2	58.4	60.1	60.2
NorthStar	NS0717R2	0.7	13	26	9/3	3,156	19.2	31.9	56.5	61.9	58.6	--
NorthStar	NS0728R2	0.7	17	27	9/2	2,981	19.1	31.9	55.6	54.9	--	--
Peterson	12R06	0.6	11	29	9/1	3,218	19.1	32.5	56.2	57.3	60.4	--
Peterson	13R07	0.7	15	28	8/31	2,449	18.6	33.3	55.8	59.4	--	--
Peterson	11R08	0.8	15	26	9/3	3,122	19.0	32.5	56.5	50.4	57.8	--
Pioneer	90Y70	0.7	15	27	9/3	3,068	19.4	33.0	55.5	52.4	58.1	57.6
Pioneer	90M80	0.8	16	32	9/2	3,413	20.1	30.3	56.7	56.6	56.2	--
Pioneer	90Y80	0.8	12	30	9/1	2,713	20.0	31.1	56.1	55.2	59.2	59.7
Pioneer	91Y01	1.0	18	30	9/4	2,690	19.7	31.1	55.8	55.4	--	--
Prairie	PB-0240R2	0.2	14	31	8/27	2,514	19.2	31.6	55.7	49.9	--	--
Prairie	PB-0441R2	0.3	12	27	8/31	3,020	19.2	31.3	56.1	66.2	--	--
Prairie	PB-0510R2	0.5	14	29	9/1	3,133	19.3	32.3	56.1	58.7	60.7	--
Prairie	X12061	0.6	15	30	9/2	2,890	18.5	32.4	55.9	50.8	--	--
Prairie	PB-0863R2	0.8	11	28	9/3	3,002	19.5	32.2	55.7	57.3	--	--
Prairie	PB-0851R2	0.8	12	25	9/3	2,949	19.4	31.7	55.4	56.0	--	--
Prairie	PB-0920R2	0.9	17	28	9/5	3,165	19.2	32.0	55.0	50.9	54.4	--
Prairie	PB-1061R2	1.0	18	33	9/6	2,617	19.1	33.1	52.4	54.7	--	--
Prairie	PB-1120R2	1.1	17	32	9/7	2,374	18.6	33.3	50.5	39.2	45.1	49.1
Proseed	P2 20-30 RR2Y	0.3	14	25	9/2	3,010	19.0	32.4	55.7	57.5	--	--
Proseed	P2 11-50	0.5	19	32	9/1	3,071	18.7	31.6	56.1	61.3	59.4	--
Proseed	P2 12-70	0.7	13	29	9/2	3,216	18.9	31.8	56.3	53.7	--	--
Proseed	P2 10-80	0.8	16	27	9/3	3,047	18.9	32.3	56.0	53.8	56.1	--
Proseed	P2 11-90	0.9	16	27	9/3	2,901	19.4	32.1	55.0	49.4	55.3	--
REA	64G14	0.4	14	29	9/1	2,754	19.3	32.3	56.3	53.5	--	--
REA	65G22	0.5	17	30	9/1	2,978	18.7	31.0	56.8	60.8	--	--
REA	66G22	0.6	11	26	9/1	3,178	19.2	32.7	55.7	57.9	--	--
REA	67G61	0.7	14	25	9/3	3,053	19.1	32.0	55.7	58.2	--	--
Renk	RS033R2	0.3	10	26	9/1	2,940	19.2	31.6	56.0	64.8	--	--
Renk	RS053R2	0.5	12	25	9/3	2,900	19.5	31.8	55.6	58.2	--	--
Renk	RS050RR	0.5	16	30	9/1	3,450	19.4	32.0	55.4	53.7	53.7	55.3
Renk	RS082R2	0.8	13	28	9/3	3,064	19.2	31.4	55.8	52.2	57.9	--
Seeds 2000	2051 RR2Y	0.5	15	28	9/1	2,972	18.9	31.6	55.9	58.1	59.2	--
Thunder	3303R2Y	0.3	16	27	9/1	3,032	18.7	32.7	56.3	57.7	--	--
Thunder	3205R2Y	0.5	17	27	9/1	3,052	18.6	31.5	56.2	58.9	59.4	--
Thunder	3307R2Y	0.7	12	32	9/2	2,850	18.8	33.3	55.7	61.8	--	--
Wensman	W 3032R2	0.3	16	28	9/1	3,086	19.3	31.2	55.8	58.8	--	--
Wensman	W 3050NR2	0.5	16	32	8/31	2,860	19.2	32.1	56.4	57.1	--	--
Wensman	W 3058R2	0.5	13	27	9/1	3,176	19.4	32.7	56.0	51.8	61.2	--
Wensman	W 3076R2	0.7	14	26	9/4	2,874	19.4	32.0	55.4	58.0	62.4	--
Wensman	W 3090NR2	0.9	13	27	9/2	3,028	19.7	32.3	55.9	54.8	--	--
Wensman	W 3099R2	0.9	17	29	9/5	3,105	18.9	32.7	55.2	50.9	57.7	--
Mean			14	28	9/2	2,995	19.1	32.0	55.7	55.6	58.1	58.7
CV %			22.1	7.7	0.9	3.3	2.3	1.9	1.2	9.3	--	--
LSD 0.10			3.6	2.5	1.1	114	0.5	0.7	0.8	6.0	--	--

Planted: May 17. Harvested: Sept. 19. Previous crop: wheat.

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

Table 19. 2012 Soybean - Dryland, Conventional and Liberty Link - Dazey (Carrington REC) - Authors, B. Schatz, M. Ostlie 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	
										2012	3-yr. Avg. (bu/a)
NDSU	Cavalier	0.9	8/28	12.0	29.9	2,731	18.1	32.9	53.8	43.4	50.6
NDSU	Ashtabula	0.4	8/31	13.0	30.2	3,091	19.4	31.7	55.5	59.9	60.0
NDSU	Traill	0.0	8/27	10.0	27.3	2,900	19.1	33.2	56.9	47.5	51.1
NDSU	Sheyenne	0.7	9/2	17.0	31.8	3,107	18.9	31.4	56.1	61.7	58.9
NDSU	ProSoy	0.8	9/2	11.0	29.4	2,834	18.3	35.2	55.3	49.9	51.6
NDSU	ND1005T	0.5	8/31	11.0	34.4	2,636	18	36.6	56.5	52.4	54.9
Pioneer	91M10	1.0	9/1	19.0	33.6	3,191	18.9	31.6	56.7	61.6	--
SK Food	SK 0786	0.7	9/1	9.0	26.8	2,843	18.5	35.0	56.4	56.4	--
SK Food	SK 918	0.5	9/1	15.0	28.3	3,789	18.8	33.0	56.2	51.8	--
SK Food	SK 0034	0.0	8/31	16	30	4,404	18.7	33.0	55.5	50.8	--
Richland	MK0205	0.2	8/31	13	29	5,133	18.5	32.5	56.5	47.5	49.0
Richland	MK0249	0.2	8/31	15	29	3,274	18.7	33.4	55.9	47.9	--
Richland	MK0508	0.8	9/2	19	33	5,092	17.0	34.1	56.9	57.3	52.5
Richland	MK831	0.8	9/3	14	32	3,556	17.4	35.0	57.7	40.1	--
Richland	MK1016	1.0	9/2	17	36	5,410	17.4	34.2	56.6	44.3	--
Richland	MK9101	1.0	9/2	19	34	2,464	17.3	35.9	54.6	39.9	--
Richland	Titan	1.0	9/3	13	29	2,787	17.8	34.4	55.8	51.8	--
Legend	LS 0522LLN	0.5	9/2	13	26	3,046	18.9	33.4	55.9	57.1	--
Seeds 2000	2082 L	0.8	9/3	19	29	2,972	18.2	33.5	56.5	57.1	--
Mean			9/1	14	30	3,350	18.5	33.5	56.2	52.7	53.6
CV %			1.1	23.8	10.3	4.3	1.6	1.7	2.2	11.5	--
LSD 0.10			1.6	4.0	3.7	198	0.4	0.7	NS	7.2	--

Planted: May 17. Harvested: Sept. 19. Previous crop: spring wheat.

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

Table 20. 2012 Soybean - Dryland, Roundup Ready - LaMoure (Carrington REC) - Authors, B. Schatz and T. Helms (Page 1 of 2).

Company/ Brand	Variety	Maturity		Seed Oil (%)	Seed Protein (%)	Seed Yield		
		Group	Maturity ¹ (date)			2012	2-yr. Avg. (bu/a)	3-yr. Avg.
Asgrow	AG0732	0.7	9/7	17.4	29.8	42.2	33.9	--
Asgrow	AG0832	0.8	9/7	17.3	31.4	41.6	34.3	--
Asgrow	AG1233	1.2	9/7	16.9	29.8	40.7	--	--
Dairyland	DSR-0747/R2Y	0.7	9/5	17.4	30.5	40.4	--	--
Dairyland	DSR-0904/R2Y	0.8	9/6	17.0	31.4	41.9	--	--
Dairyland	DSR-1215/R2Y	1.2	9/6	15.9	30.9	42.3	--	--
Dairyland	DSR-1370/R2Y	1.3	9/8	16.5	29.8	36.4	--	--
Dyna-Gro	31RY08	0.8	9/8	18.5	28.9	44.9	35.8	--
Dyna-Gro	37RY06	0.6	9/8	16.6	31.9	39.8	32.7	--
Dyna-Gro	37RY10	1.0	9/9	17.1	30.8	42.0	35.2	39.6
Dyna-Gro	S08RY23	0.8	9/8	16.8	30.6	40.6	--	--
G2 Genetics	6070	0.7	9/6	16.3	30.9	34.2	30.1	--
G2 Genetics	6088	0.8	9/9	16.1	32.8	42.0	37.4	40.9
G2 Genetics	6092	0.9	9/5	16.4	31.1	39.4	35.2	--
G2 Genetics	6098	0.9	9/10	16.2	30.9	39.7	35.9	38.8
G2 Genetics	6143	1.4	9/8	16.7	31.3	49.7	--	--
G2 Genetics	7063	0.6	9/8	16.5	31.5	42.9	--	--
G2 Genetics	7110	1.1	9/8	17.2	31.8	34.7	--	--
Hyland	HS 09RYS12	0.9	9/6	16.6	30.4	35.2	--	--
Integra	20810	0.8	9/9	16.6	30.5	48.6	--	--
Integra	21102	1.1	9/8	16.2	30.1	36.1	--	--
Integra	78070R	0.7	9/8	16.9	30.9	43.5	37.1	40.5
Kruger	K2-0101	0.1	9/7	17.5	29.9	39.6	33.4	--
Kruger	K2-0402	0.4	9/6	16.9	31.1	33.9	30.8	--
Kruger	K2-0503	0.5	9/9	16.6	31.2	41.5	36.9	--
Kruger	K2-0504	0.5	9/6	15.5	32.0	41.1	--	--
Kruger	K2-0601	0.6	9/7	15.4	31.0	38.5	34.6	--
Kruger	K2-0701	0.7	9/10	16.9	30.9	33.7	33.4	--
Kruger	K2-0801	0.8	9/8	17.7	30.7	39.9	32.7	36.6
Kruger	K2-0901	0.9	9/6	15.9	31.5	40.9	--	--
Kruger	K2-1001	1.0	9/8	16.6	31.4	43.9	36.0	40.3
Kruger	K2-1102	1.1	9/9	16.1	31.4	43.5	35.3	--
Legend	0.9 Advantage Stack	0.9	9/8	17.5	30.3	48.6	--	--
Legend	LS 08R22N	0.8	9/6	14.9	30.9	43.4	--	--
Mustang	08733	0.8	9/8	15.4	33.1	35.1	--	--
Mustang	12303	1.2	9/8	17.6	28.6	34.8	--	--
Mycogen	5B066R2	0.6	9/10	17.3	29.3	43.0	--	--
Mycogen	5B080R2	0.8	9/6	17.2	30.8	39.3	32.8	--
NorthStar	NS0626R2	0.6	9/7	16.8	30.9	36.3	--	--
NorthStar	NS0717R2	0.7	9/8	17.1	29.6	39.0	--	--
NorthStar	NS0728R2	0.7	9/8	16.7	31.3	37.8	--	--
NorthStar	NS0928NR2	0.9	9/8	14.8	31.9	37.5	--	--
Peterson	11R08	0.8	9/6	16.4	32.3	35.3	28.5	--
Peterson	11R10	1.0	9/8	16.7	30.8	44.8	36.8	--
Peterson	12R10	1.0	9/7	17.3	30.6	38.5	33.3	--
Peterson	13R08N	0.8	9/8	17.0	30.6	35.7	--	--
Pioneer	90M80	0.8	9/9	16.9	28.6	42.2	34.2	--
Pioneer	90Y70	0.7	9/9	15.3	31.9	37.2	35.1	--
Pioneer	90Y80	0.8	9/6	17.2	30.1	38.3	35.1	37.4
Mean			9/9	16.6	31.2	39.3	33.4	38.1
CV %			21.4	--	--	15.1	--	--
LSD 0.10			2.5	--	--	8.0	--	--

Table 20. 2012 Soybean - Dryland, Roundup Ready - LaMoure (Carrington REC) - Authors, B. Schatz and T. Helms (Page 2 of 2).

Company/ Brand	Variety	Maturity		Seed Oil (%)	Seed Protein (%)	Seed Yield		
		Group	Maturity ¹ (date)			2012	2-yr. Avg.	3-yr. Avg.
Pioneer	91Y01	1.0	9/8	18.9	28.4	35.2	--	--
Pioneer	91Y10	1.1	9/6	16.1	30.4	48.1	--	--
Pioneer	91Y30	1.3	9/8	16.5	29.1	42.4	--	--
Proseed	P2 10-80	0.8	9/10	15.7	31.7	41.9	30.6	34.6
Proseed	P2 11-90	0.9	9/9	16.3	31.6	38.8	31.0	--
Proseed	P2 11-110	1.1	9/6	15.7	32.9	37.6	--	--
Proseed	P2 2-140	1.4	9/7	18.1	30.6	40.4	--	--
REA	66G22	0.6	9/9	16.3	32.2	37.9	32.1	--
REA	67G61	0.7	9/8	16.7	31.7	35.8	29.8	34.4
REA	69G13	0.9	9/8	17.8	30.5	36.8	--	--
REA	71G20	1.1	9/7	16.7	30.7	43.1	36.7	--
Renk	RS033R2	0.3	9/8	16.5	31.3	37.7	--	--
Renk	RS053R2	0.5	9/6	16.6	30.9	44.7	--	--
Renk	RS082R2	0.8	9/7	16.6	30.7	35.6	27.4	--
Seeds 2000	2092RR2YN	0.9	9/8	17.1	30.6	38.8	--	--
Seeds 2000	2121 RR2Y	1.2	9/9	14.9	32.9	42.2	34.2	--
Thunder	3209R2YN	0.9	9/7	15.7	32.1	34.2	29.6	--
Thunder	3211R2Y	1.1	9/10	17.2	31.8	37.1	30.8	--
Thunder	3114R2Y	1.4	9/13	15.5	33.0	44.5	--	--
Wensman	W 3050NR2	0.5	9/8	17.2	30.8	34.1	--	--
Wensman	W 3058R2	0.5	9/8	16.9	31.6	32.5	31.6	--
Wensman	W 3076R2	0.7	9/6	16.5	32.5	32.7	29.7	--
Wensman	W 3090NR2	0.9	9/7	17.4	29.4	35.6	--	--
Wensman	W 3099R2	0.9	9/7	16.7	30.7	40.6	35.7	--
Mean			9/9	16.6	31.2	39.3	33.4	38.1
CV %			21.4	--	--	15.1	--	--
LSD 0.10			2.5	--	--	8.0	--	--

Planted: May 7. Harvested: Sept. 25.

¹Maturity is date of 95 percent brown or tan pods.**Table 21. 2012 Soybean - Dryland, Conventional and Liberty Link - LaMoure (Carrington REC) - Authors, B. Schatz and T. Helms.**

Company/ Brand	Variety	Maturity		Seed Oil (%)	Seed Protein (%)	Seed Yield		
		Group	Maturity ¹ (date)			2012	3-yr. Avg.	
Asgrow	AG0732		0.7	9/11	17.9	31.8	31.9	--
Asgrow	AG0808		0.8	9/11	17.8	29.2	29.2	--
NDSU	Ashtabula		0.4	9/5	19.2	27.8	24.6	29.6
NDSU	Cavalier		0.7	9/4	16.8	31.7	24.8	--
NDSU	ND1005T		0.5	9/6	17.2	34.7	28.9	--
NDSU	ND1100S		--	9/4	16.2	30.2	29.6	--
NDSU	Nornatto		0.3	9/4	15.2	30.3	27.1	--
NDSU	Sheyenne		0.8	9/8	18.1	28.1	37.9	34.6
Peterson	L08-11	LL ²	0.8	9/12	18.1	30.6	37.2	--
Peterson	L11-13N	LL	1.1	9/14	16.5	33.4	34.3	--
Richland	Challenger		1.3	9/15	15.9	34.4	30.1	--
Richland	MK0508		0.8	9/10	15.7	30.3	32.2	28.8
Richland	MK1016		1.0	9/9	16.1	28.8	26.7	27.2
Richland	MK831		0.8	9/8	16.3	30.1	32.5	--
Richland	MK9101		1.0	9/12	15.2	31.8	27.3	--
Richland	Titan		1.0	9/8	16.1	32.2	31.4	--
Seeds 2000	2082 L	LL	0.8	9/12	17.1	30.5	33.5	--
Mean				9/9	16.8	30.9	30.5	30.1
CV %				4.3	--	--	10.3	--
LSD .10				2.3	--	--	6.9	--

Planted: May 7. Harvested: Sept. 25.

¹Maturity is date of 95 percent brown or tan pods.²LL = Liberty Link.

Table 22. 2012 Soybean - Dryland, Roundup Ready - Wishek (Carrington REC) - Authors, B. Schatz, M. Ostlie and T. Indergaard (Page 1 of 2).

Company/Brand	Variety	Maturity		Seed Oil (%)	Seed Protein (%)	Seeds/Pound	Test Weight (lb/bu)	Seed Yield (bu/a)
		Group	Maturity ¹ (date)					
G2 Genetics	6070	0.7	9/3	18.1	33.3	3,229	56.5	39.0
G2 Genetics	6088	0.8	9/6	18.2	33.2	3,800	55.6	32.2
G2 Genetics	6092	0.9	9/4	18.2	33.1	3,101	56.7	37.7
G2 Genetics	6098	0.9	9/3	19.0	32.2	2,979	56.9	35.9
G2 Genetics	6143	1.4	9/6	18.3	33.5	3,429	56.5	33.7
G2 Genetics	6162	1.5	9/9	18.2	33.2	3,546	56.1	29.5
G2 Genetics	7110	1.1	9/5	17.9	33.9	2,959	57.4	30.8
Integra	20810	0.9	9/4	18.4	33.2	3,295	57.3	35.3
Integra	20600 R2Y	0.6	9/2	18.0	33.0	3,243	56.6	38.5
Integra	20900 R2Y	0.9	9/6	18.3	32.9	3,060	57.1	36.8
Integra	20902N	0.9	9/4	18.4	33.7	3,081	56.7	45.9
Kruger	K2-0101	0.1	8/28	18.4	32.5	2,699	56.9	31.8
Kruger	K2-0402	0.4	8/30	18.7	33.0	3,114	56.6	37.1
Kruger	K2-0503	0.5	8/31	18.6	33.6	3,352	56.6	30.9
Kruger	K2-0504	0.5	9/5	18.5	33.5	3,231	55.9	35.0
Kruger	K2-0601	0.6	9/2	18.0	32.7	3,286	57.0	41.0
Kruger	K2-0701	0.7	9/5	18.1	33.4	3,015	56.2	40.4
Kruger	K2-0801	0.8	9/4	18.5	33.6	3,318	56.2	32.6
Kruger	K2-0901	0.9	9/5	18.3	33.9	3,475	56.4	33.6
Kruger	K2-1001	1.0	9/6	17.5	34.3	3,348	56.6	41.5
Kruger	K2-1102	1.1	9/8	18.4	33.7	3,020	56.2	35.6
Kruger	K2-1301	1.3	9/9	17.8	33.3	3,540	56.8	33.2
Mycogen	5B080R2	0.8	9/4	18.4	32.9	3,488	57.1	52.3
Mycogen	5N110R2	1.1	9/4	18.1	33.7	3,313	57.0	31.8
Northstar	NS1257R2	1.1	9/5	17.9	33.7	3,455	56.4	38.8
Peterson	11R08	0.8	9/5	17.9	33.6	3,415	56.0	33.9
Peterson	12R06	0.6	9/2	18.3	33.9	3,460	55.6	40.7
Pioneer	90Y70	0.7	9/3	18.8	33.5	3,346	56.4	34.5
Pioneer	91Y01	1.0	9/5	18.6	33.1	3,029	57.0	37.4
Pioneer	91Y10	1.1	9/4	17.2	33.1	3,218	56.3	29.0
Proseed	P2 10-80	0.8	9/4	18.2	33.3	3,391	56.5	40.9
Proseed	P2 11-50	0.5	9/2	18.0	32.8	3,201	57.1	43.6
Proseed	P2 12-70	0.7	9/3	19.0	33.2	3,253	55.9	38.3
Proseed	P2 20-30 RR2Y	0.3	9/1	18.5	33.5	3,367	56.2	38.4
REA	66G22	0.6	9/2	18.4	33.9	3,407	56.1	35.8
REA	67G61	0.7	9/2	18.1	33.5	3,425	56.1	39.7
REA	69G13	0.9	9/4	18.7	33.6	3,292	57.3	33.7
REA	71G20	1.1	9/5	17.7	34.4	3,226	56.2	39.1
Renk	RS053R2	0.5	9/4	18.6	33.7	3,130	55.7	41.2
Renk	RS082R2	0.8	9/4	18.2	33.2	3,317	56.7	29.9
Mean			9/4	18.3	33.4	3285	56.5	36.2
CV %			1.0	2.3	1.3	7.2	1.3	16.9
LSD 0.10			1.3	0.6	0.5	275	0.8	7.2

Table 22. 2012 Soybean - Dryland, Roundup Ready - Wishek (Carrington REC) - Authors, B. Schatz, M. Ostlie and T. Indergaard (Page 2 of 2).

Company/Brand	Variety	Maturity Group	Maturity ¹ (date)	Seed Oil (%)	Seed Protein (%)	Seeds/ Pound	Test Weight (lb/bu)	Seed Yield (bu/a)
Seeds 2000	2091RR2Y	0.9	9/6	18.4	33.0	3,093	56.7	31.4
Seeds 2000	2121 RR2Y	1.2	9/7	18.4	33.1	3,171	56.7	34.5
Thunder	3211R2Y	1.1	9/6	18.1	33.4	3,472	55.7	28.8
Thunder	3114R2Y	1.4	9/9	18.3	33.1	3,516	54.8	33.1
Thunder	3114R2Y	1.4	9/4	18.2	33.3	3,363	56.9	31.5
Wensman	W 3076R2	0.7	9/4	17.7	33.6	3,778	56.8	38.4
Wensman	W 3090NR2	0.9	9/4	18.8	33.4	3,286	56.2	35.3
Wensman	W 3099R2	0.9	9/6	18.4	33.9	3,417	56.8	35.0
Wensman	W 3108R2	1.0	9/5	18.4	33.5	3,117	56.5	39.2
Wensman	W 3120R2	1.2	9/8	18.0	33.9	3,154	56.5	36.2
Mean			9/4	18.3	33.4	3285	56.5	36.2
CV %			1.0	2.3	1.3	7.2	1.3	16.9
LSD 0.10			1.3	0.6	0.5	275	0.8	7.2

Planted: May 16. Harvested: Sept. 20. Previous crop: spring wheat.

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

Table 23. 2012 Soybean - Irrigated, Roundup Ready - Oakes (Carrington REC) - Authors, W. Albus, L. Besemann and B. Schatz (Page 1 of 2).

Company/ Brand	Variety	Maturity Group	Maturity ¹ (date)	Plant Lodge ² (0-9)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield	
								2012	2-yr. Avg. ------(bu/a)-----
Dairyland	DSR-0747/R2Y	0.7	9/17	3	18.0	34.0	58.5	77.3	--
Dairyland	DSR-0904/R2Y	0.8	9/11	3	19.0	33.4	58.1	76.6	--
Dairyland	DSR-1215/R2Y	1.2	9/16	3	17.7	33.5	58.4	84.4	72.7
Dairyland	DSR-1370/R2Y	1.3	9/18	5	18.0	33.1	58.0	76.4	71.8
Dyna-Gro	31RY08	0.8	9/12	2	18.3	34.6	57.8	68.3	--
Dyna-Gro	37RY10	1.0	9/11	3	18.5	34.6	58.1	71.0	--
Dyna-Gro	39RY14	1.4	9/15	1	18.3	33.1	58.0	82.9	--
Dyna-Gro	S13RY93	1.3	9/16	1	19.0	30.7	57.8	74.0	--
G2 Genetics	6070	0.7	9/9	2	18.3	34.8	58.5	72.2	--
G2 Genetics	6088	0.8	9/13	2	18.6	34.2	57.9	79.5	74.0
G2 Genetics	6092	0.9	9/13	4	18.3	34.5	59.2	72.4	--
G2 Genetics	6098	0.9	9/10	2	19.0	32.4	58.8	76.4	70.9
G2 Genetics	6143	1.4	9/13	2	17.9	34.2	59.0	74.5	--
G2 Genetics	6162	1.5	9/15	3	18.6	32.6	58.4	69.2	--
G2 Genetics	7110	1.1	9/11	3	18.8	33.2	58.3	72.1	67.1
Integra	20810	0.8	9/11	2	18.1	33.0	59.1	72.5	--
Integra	21102	1.1	9/14	5	17.8	34.9	58.4	68.3	--
Integra	78070R	0.7	9/11	1	18.7	34.0	58.2	71.1	70.7
Kruger	K2-0101	0.1	8/31	3	17.6	35.0	59.0	64.9	--
Kruger	K2-0402	0.4	9/5	3	18.2	34.4	58.2	67.0	--
Kruger	K2-0503	0.5	9/9	3	17.8	34.9	58.0	71.5	--
Kruger	K2-0504	0.5	9/9	1	18.4	33.8	58.5	74.5	--
Kruger	K2-0601	0.6	9/7	4	18.0	33.7	58.2	67.5	--
Kruger	K2-0701	0.7	9/14	3	19.0	31.7	58.4	76.5	--
Kruger	K2-0801	0.8	9/10	3	18.3	33.9	58.4	74.3	--
Kruger	K2-0901	0.9	9/10	2	19.1	33.2	58.3	71.0	--
Kruger	K2-1001	1.0	9/13	6	18.3	33.3	58.7	71.0	66.8
Kruger	K2-1102	1.1	9/17	5	17.9	34.4	58.6	73.4	--
Kruger	K2-1301	1.3	9/17	3	17.5	34.2	58.7	81.5	--
Legend	LS 13R21	1.3	9/16	4	17.7	33.5	58.2	80.5	--
Legend	LS 14R22N	1.4	9/15	3	19.1	33.1	58.4	83.1	--
NorthStar	NS1257R2	1.1	9/14	5	17.9	34.7	58.4	67.7	--
Peterson	12R10	1.0	9/12	2	18.6	34.6	57.9	69.3	--
Peterson	12R12	1.1	9/14	4	18.1	34.6	58.4	65.8	--
Pioneer	90M80	0.8	9/12	4	19.8	31.5	58.4	63.7	--
Pioneer	90Y70	0.7	9/13	3	19.0	33.4	58.7	67.6	--
Pioneer	90Y80	0.8	9/9	3	19.4	33.4	58.1	73.1	70.1
Pioneer	91Y01	1.0	9/10	6	19.1	32.2	58.4	56.5	--
Pioneer	91Y10	1.1	9/12	3	18.3	33.6	58.7	64.9	--
Pioneer	91Y30	1.3	9/13	3	19.4	31.8	57.7	71.8	--
Prairie	PB-0441 R2	0.4	9/2	2	18.3	33.8	58.2	77.6	--
Prairie	PB-0863R2	0.8	9/9	2	19.1	33.2	57.9	77.4	--
Proseed	P2 11-110	1.1	9/13	4	18.5	34.7	58.6	67.8	--
Mean			9/12	3	18.4	33.7	58.3	72.0	70.0
CV %			--	35.6	0.9	0.9	0.7	6.8	--
LSD 0.10			--	1	0.2	0.3	0.5	5.7	--

Table 23. 2012 Soybean - Irrigated, Roundup Ready - Oakes (Carrington REC) - Authors, W. Albus, L. Besemann and B. Schatz (Page 2 of 2).

Company/ Brand	Variety	Maturity Group	Maturity ¹ (date)	Plant Lodge ² (0-9)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield	
								2012	2-yr. Avg. ----- (bu/a)-----
Proseed	P2 11-90	0.9	9/13	2	18.5	34.5	57.8	68.4	69.9
Proseed	P2 20-90 RR2Y	0.9	9/13	4	18.3	34.1	58.5	69.9	--
Proseed	P2 2-140	1.4	9/17	3	19.0	33.3	58.6	68.4	--
REA	66G22	0.6	9/9	4	17.9	34.6	58.5	64.2	--
REA	67G61	0.7	9/9	3	18.6	33.5	58.7	69.4	--
REA	69G13	0.9	9/9	3	19.1	33.3	58.1	77.7	--
REA	71G20	1.1	9/12	4	18.2	33.3	58.5	70.6	--
Seeds 2000	2091RR2Y	0.9	9/15	3	18.2	33.8	58.6	76.8	70.4
Seeds 2000	2121 RR2Y	1.2	9/14	4	17.8	35.2	58.6	69.8	68.5
Thunder	3114R2Y	1.4	9/19	5	17.9	33.8	57.9	82.0	--
Thunder	3211R2Y	1.1	9/13	4	18.0	35.1	57.9	71.2	67.4
Wensman	W 3050NR2	0.5	9/6	3	18.3	34.4	58.0	63.1	--
Wensman	W 3076R2	0.7	9/11	2	18.2	34.4	58.4	73.6	--
Wensman	W 3090NR2	0.9	9/12	3	19.0	33.5	58.2	73.4	--
Wensman	W 3099R2	0.9	9/11	3	18.4	35.0	58.3	69.5	69.8
Wensman	W 3101R2	1.0	9/12	1	18.0	35.1	58.8	72.4	--
Mean			9/12	3	18.4	33.7	58.3	72.0	70.0
CV %			--	35.6	0.9	0.9	0.7	6.8	--
LSD 0.10			--	1	0.2	0.3	0.5	5.7	--

Planted: May 10. Harvested: Oct. 25. Previous crop: corn.

¹Maturity is date of 95 percent brown or tan pods.²Lodging is from 0 to 9; 0 is erect, 9 is flat.**Table 24. 2012 Soybean - Irrigated, Conventional - Oakes (Carrington REC) - Authors, W. Albus, L. Besemann and B. Schatz.**

Company/Brand	Variety	Mat. Group	Maturity ¹ (date)	Plant Lodge ² (0-9)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield	
								2012	2-yr. Avg. ----- (bu/a)-----
Legend	LS1172LLN	1.1	9/14	8	18.9	32.1	57.4	67.0	--
Richland	MK0508	0.5	9/15	8	16.9	33.1	59.0	54.9	43.8
Richland	MK831	0.8	9/10	6	17.8	33.8	59.5	60.4	56.4
Richland	MK1016	1.0	9/14	7	16.6	35.6	59.3	59.2	58.4
Richland	MK9101	1.0	9/14	5	20.4	35.3	57.3	70.9	--
Richland	Titan	1.0	9/8	3	17.6	34.2	58.2	83.3	--
Richland	Challenger	1.3	9/19	8	13.4	28.0	56.2	57.6	--
Seeds 2000	2082 L	0.8	9/14	5	18.5	33.6	58.5	85.0	--
SK Food	SK 0786	0.7	9/12	8	17.6	37.5	58.4	60.0	--
SK Food	SK 0796	0.7	9/13	8	17.6	37.7	57.3	58.3	--
SK Food	SK 095	0.9	9/16	8	16.4	36	59.5	51.7	--
SK Food	SK 9814	1.4	9/17	6	21	34.4	57.2	71.1	--
Mean			9/14	6	17.7	34.3	58.1	64.9	58.4
CV %			--	10.9	14.8	15.7	1.2	10.5	--
LSD 0.10			--	0.8	3.2	NS	0.8	8.2	--

Planted: May 10. Harvested: Sept. 25. Previous crop: corn.

¹Maturity is date of 95 percent brown or tan pods.²Lodging is from 0 to 9; 0 is erect, 9 is flat.

Table 25. 2012 Soybean - Roundup Ready - Langdon - Authors, B. Hanson and R. Wilhelm (Page 1 of 2).

Company/ Brand	Variety	Maturity		Plant Height	Seed Oil	Seed Protein	Seed Yield	
		Group	Maturity ¹ (date)				----(bu/a)----	
Asgrow	AG00632	00.6	9/5	36	18.5	32.0	40.1	51.2
Asgrow	AG00932	00.9	9/4	37	18.6	30.7	40.3	53.4
BioGene	BG 7007	00.7	9/4	34	18.6	32.1	41.4	--
BioGene	BG 7009	00.9	9/5	36	18.1	31.2	39.0	--
Channel Bio	00506 RR2	00.5	9/4	33	19.3	31.2	42.0	--
Croplan	R2T0041	00.4	9/5	36	19.3	31.1	48.5	--
Croplan	R2T00832	00.8	9/5	37	18.7	31.1	44.5	--
Croplan	R2T0091	00.9	9/5	38	19.2	29.5	44.4	56.8
Croplan	R2T0231	0.2	9/6	39	18.5	31.2	46.3	--
Dyna-Gro	30RY04	00.4	9/4	34	18.9	32.3	42.5	53.5
Dyna-Gro	30RY07	00.7	9/5	35	18.3	32.6	45.0	54.9
Dyna-Gro	34RY03	0.2	9/5	39	18.8	30.9	44.4	--
Dyna-Gro	S008RY43	00.8	9/4	36	18.8	30.1	44.7	--
G2 Genetics	6009	00.9	9/6	34	19.3	30.9	42.9	55.1
G2 Genetics	0090	00.9	9/5	34	18.7	33.4	41.8	53.3
G2 Genetics	6005	00.4	9/3	28	19.9	30.3	40.7	49.4
G2 Genetics	6012	0.1	9/6	37	18.8	31.2	37.5	49.6
Gold Cntry	0140	0.1	9/7	36	18.7	31.3	42.7	55.0
Gold Cntry	0241	0.2	9/6	37	18.7	31.0	43.2	--
Hefty	H007Y12	00.7	9/5	34	18.8	32.3	42.6	50.4
Hefty	H009Y12	00.9	9/5	35	18.0	32.0	42.2	--
Hefty	H00Y12	0.0	9/6	29	19.4	31.7	42.9	52.4
Hyland	HS 006RYS24	00.6	9/4	39	17.7	31.8	45.8	--
Hyland ²	DAS007R3	00.7	9/3	35	18.9	30.4	43.1	--
Hyland ²	HX 007RY32	00.7	9/5	35	18.5	31.1	47.5	--
Integra	20031	00.3	9/4	37	18.3	30.7	40.0	--
Integra	20052	00.5	9/2	36	17.9	31.5	44.1	51.0
Integra	20080	00.8	9/4	35	18.4	30.7	41.3	--
Integra	20090	00.9	9/6	37	18.5	31.5	41.8	55.3
Integra	20109	0.1	9/15	34	17.8	34.0	41.9	--
Mustang	00913	00.9	9/12	31	17.9	32.8	39.9	53.5
Mustang	00971	00.9	9/6	39	18.0	32.4	40.6	55.7
Mustang	01212	0.1	9/6	30	18.1	33.1	42.3	52.1
Mycogen	5B005R2	00.5	9/3	34	19.1	31.6	44.5	54.7
Mycogen	5B007R2	00.7	9/4	37	19.3	31.8	48.3	57.3
Mycogen	5G009R2	00.9	9/6	38	17.9	31.7	43.1	--
NorthStar	NS0057R2	00.5	9/2	34	17.9	31.5	48.6	52.4
NorthStar	NS0077R2	00.7	9/5	33	19.0	32.5	47.3	53.0
Peterson	11R01	0.1	9/5	37	19.8	29.3	42.8	54.4
Peterson	12R007	00.7	9/5	33	18.7	32.8	38.1	49.9
Peterson	13R01	0.1	9/14	33	18.4	32.2	41.3	--
Pioneer	900Y81	00.8	9/7	36	18.4	30.0	37.0	48.1
Pioneer	90Y01	0.0	9/5	38	19.3	29.8	42.2	--
Prairie	PB-00560R2	00.5	9/5	34	19.7	31.0	49.1	--
Prairie	PB-00760R2	00.7	9/4	37	18.5	31.6	44.7	--
Prairie	PB-00844R2	00.8	9/4	35	18.8	29.8	44.3	--
Prairie	PB-0131R2	0.1	9/13	33	17.0	34.7	42.7	--
Prairie	PB-0240R2	0.2	9/5	38	18.7	30.3	41.7	--
Proseed	P2 10-08	00.8	9/7	41	18.3	31.3	40.9	53.9
Proseed	P2 11-05	00.5	9/3	34	19.3	30.8	47.7	53.5
Mean			9/6	35	18.5	31.6	42.7	53.1
CV %			1.4	7.2	2.8	2.6	11.4	--
LSD 0.10			1.8	3.0	0.9	1.3	5.7	--

Table 25. 2012 Soybean - Roundup Ready - Langdon - Authors, B. Hanson and R. Wilhelmi (Page 2 of 2).

Company/ Brand	Variety	Maturity		Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
		Group	Maturity ¹ (date)				2012	2-yr. Avg. ----(bu/a)----
Proseed	P2 11-07	00.7	9/4	35	18.3	33.1	42.6	52.5
Proseed	P2 20-00	0.0	9/14	31	17.8	34.4	41.6	--
Proseed	P2 20-08	00.8	9/5	35	18.1	31.0	45.5	--
REA	53G32	00.3	9/4	30	18.9	32.1	44.7	51.9
REA	55G22	00.5	9/4	36	18.5	33.2	42.8	53.7
REA	58G82	00.8	9/5	36	18.5	30.7	42.4	53.6
REA	61G21	0.1	9/5	36	18.7	29.9	43.6	--
Seeds 2000	0091 RR2Y	00.9	9/6	39	17.3	32.4	36.3	53.5
Syng NK	S00-A7	00.7	9/4	35	19.1	31.9	46.7	--
Syng NK	S02-B4	0.2	9/4	35	19.0	29.8	38.8	53.0
Thunder	31009R2Y	00.9	9/6	37	18.0	32.2	39.5	52.8
Thunder	32005R2Y	00.5	9/2	37	18.4	32.5	49.0	53.6
Thunder	3201R2Y	0.1	9/6	30	18.8	31.9	42.4	52.5
Thunder	3202R2Y	0.2	9/16	35	16.8	34.3	34.2	--
Thunder	33009R2YN	00.9	9/4	37	18.3	30.9	47.2	--
Wensman	W 30084R2	00.8	9/5	37	17.5	33.2	36.8	52.9
Wensman	W 30088R2	00.8	9/13	33	18.4	32.4	40.1	--
Wensman	W 30091R2	00.9	9/5	36	18.9	29.9	41.8	54.4
Wensman	W 30099R2	00.9	9/9	39	19.1	30.4	42.9	--
Mean			9/6	35	18.5	31.6	42.7	53.1
CV %			1.4	7.2	2.8	2.6	11.4	--
LSD 0.10			1.8	3.0	0.9	1.3	5.7	--

Planted: May 21. Harvested: Sept. 27.

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).²All lines are commercially available except those designated experimental.**Table 26. 2012 Soybean - Conventional and Liberty Link - Langdon - Authors, B. Hanson and R. Wilhelmi.**

Company/ Brand	Variety	Maturity		Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
		Group	Maturity ¹ (date)				2012	2-yr. Avg. ----(bu/a)----
Hefty	H008L3 ²	00.8	9/12	34	18.5	31.3	57.3	--
Hefty	H0212L ²	0.2	9/17	33	19.0	30.1	46.6	45.5
Integra	300803	00.8	9/11	35	18.6	31.3	58.4	--
NDSU	Ashtabula	0.4	9/22	41	19.0	30.9	51.3	--
NDSU	Cavalier	00.9	9/10	38	18.4	31.3	52.5	45.7
NDSU	Trail	0.0	9/14	36	18.3	31.9	47.7	44.6
Peterson	L009-13 ²	00.9	9/11	34	18.3	31.1	55.5	--
SK Food	SK 0007	000.4	9/5	33	17.8	32.9	42.4	40.0
SK Food	SK 0034	0.0	9/23	36	18.3	29.8	39.1	--
SunOpta	Bravado	00.9	9/14	39	18.8	30.1	53.0	50.9
SunOpta	Valor	0.1	9/16	42	18.1	31.8	41.0	--
Mean			9/15	37	18.5	31.1	48.0	44.6
CV %			1.6	4.8	1.3	1.5	8.2	--
LSD 0.10			2.1	2.1	0.4	0.8	4.7	--

Planted: May 22. Harvested: Sept. 28.

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).²Liberty Link.

Table 27. 2012 Soybean - Roundup Ready - Cavalier (Langdon REC) - Authors, B. Hanson and R. Wilhelmi (Page 1 of 2).

Company/ Brand	Variety	Maturity Group	Maturity ¹ (date)	Seed Oil (%)	Seed Protein (%)	Seed Yield ----(bu/a)----	
						2012	2-yr. Avg.
Asgrow	AG00632	00.6	9/11	20.2	29.7	45.0	46.6
Asgrow	AG00932	00.9	9/14	19.7	29.4	45.0	47.6
Dyna-Gro	30RY04	00.4	9/12	20.4	30.1	39.6	44.4
Dyna-Gro	30RY07	00.7	9/13	20.1	30.0	43.9	47.9
Dyna-Gro	S008RY43	00.8	9/13	19.4	29.6	41.4	--
Dyna-Gro	34RY03	0.2	9/15	19.5	30.3	46.2	--
G2 Genetics	6005	00.4	9/15	20.4	29.2	47.5	47.7
G2 Genetics	0090	00.9	9/16	20.2	30.3	48.0	49.1
G2 Genetics	6009	00.9	9/9	20.3	30.0	46.3	45.1
G2 Genetics	6012	0.1	9/12	20.2	29.0	43.8	46.2
Hefty	H007Y12	00.7	9/12	19.9	31.3	43.8	46.2
Hefty	H009Y12	00.9	9/16	19.1	29.7	50.5	--
Hefty	H00Y12	0.0	9/15	19.7	30.6	42.1	43.2
Hyland	HS 006RYS24	00.6	9/12	19.1	30.0	50.1	--
Hyland ²	HX 007RY32	00.7	9/12	19.8	29.8	47.8	--
Hyland ²	DAS007R3	00.7	9/13	19.5	29.8	46.7	--
Integra	20031	00.3	9/17	19.4	30.2	51.8	--
Integra	20080	00.8	9/12	20.2	29.3	39.8	--
Integra	20109	0.1	9/20	19.1	31.4	44.6	--
Integra	97001	00.3	9/12	21.0	29.5	44.4	--
Integra	97014	0.1	9/17	19.7	31.2	48.6	--
Mycogen	5B005R2	00.5	9/11	20.4	30.4	49.2	--
Mycogen	5B007R2	00.7	9/13	20.4	29.8	51.0	--
Mycogen	5G009R2	00.9	9/15	20.0	29.7	46.4	--
NorthStar	NS0057R2	00.5	9/10	18.9	30.1	48.8	47.1
NorthStar	NS0077R2	00.7	9/9	20.2	30.2	45.0	45.2
Peterson	12R007	00.7	9/17	20.1	30.3	46.1	44.9
Peterson	11R01	0.1	9/18	19.7	29.2	46.4	49.4
Peterson	13R01	0.1	9/20	19.0	30.3	40.6	--
Pioneer	90Y01	0.0	9/16	20.6	28.4	47.4	--
Pioneer	900Y81	00.8	9/17	19.1	30.1	40.5	45.3
Prairie	PB-00560R2	00.5	9/11	20.3	30.2	49.8	50.2
Prairie	PB-00760R2	00.7	9/15	19.8	29.2	52.3	--
Prairie	PB-00844R2	00.8	9/11	19.6	29.4	42.7	--
Prairie	PB-0131R2	0.1	9/19	18.7	31.5	42.7	--
Prairie	PB-0240R2	0.2	9/15	19.4	30.5	43.7	49.7
Proseed	P2 11-05	00.5	9/10	20.3	28.9	41.8	41.2
Proseed	P2 11-07	00.7	9/11	20.4	29.9	48.7	47.6
Proseed	P2 10-08	00.8	9/16	19.8	28.8	39.8	42.7
Proseed	P2 20-08	00.8	9/12	19.8	29.2	40.0	--
Proseed	P2 20-00	0.0	9/21	19.4	30.5	45.1	--
REA	53G32	00.3	9/9	20.9	29.0	42.6	43.2
REA	55G22	00.5	9/11	20.8	29.7	46.2	46.1
REA	58G82	00.8	9/17	19.7	28.2	44.0	45.2
Mean			9/14	19.9	29.8	45.5	46.8
CV %			2.1	2.0	2.5	14.0	--
LSD 0.10			2.9	0.7	1.3	7.4	--

Table 27. 2012 Soybean - Roundup Ready - Cavalier (Langdon REC) - Authors, B. Hanson and R. Wilhelmi (Page 2 of 2).

Company/ Brand	Variety	Maturity Group	Maturity ¹ (date)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2012 2-yr. Avg. ----(bu/a)----	
REA	61G21	0.1	9/17	20.1	29.1	48.2	45.2
Seeds 2000	0091 RR2Y	00.9	9/18	20.0	28.9	49.1	51.7
Stine	01RC62	00.9	9/13	19.7	29.8	41.5	45.4
Stine	01RD66	00.9	9/19	19.8	30.4	44.2	--
Syng NK	S00-A7	00.7	9/10	20.7	29.4	49.9	--
Syng NK	S02-B4	0.2	9/16	20.1	28.4	49.5	54.1
Thunder	33009R2YN	00.9	9/11	19.9	28.5	41.6	--
Thunder	3201R2Y	0.1	9/19	19.6	31.1	51.9	47.1
Thunder	3202R2Y	0.2	9/21	18.8	31.6	42.6	--
Thunder	31009R2Y	00.9	9/17	18.9	29.9	45.1	47.7
Thunder	32005R2Y	00.5	9/11	20.0	30.0	51.3	50.0
Wensman	W 30084R2	00.8	9/17	19.4	29.5	44.8	47.0
Wensman	W 30088R2	00.8	9/19	19.1	31.0	46.1	--
Wensman	W 30091R2	00.9	9/18	19.8	29.0	54.1	--
Wensman	W 30099R2	00.9	9/18	19.9	29.0	45.4	--
Mean			9/14	19.9	29.8	45.5	46.8
CV %			2.1	2.0	2.5	14.0	--
LSD 0.10			2.9	0.7	1.3	7.4	--

Planted: May 15. Harvested: Oct. 1.

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

²All lines are commercially available except those designated experimental.

Table 28. 2012 Soybean - Conventional and Liberty Link - Vesleyville (Langdon REC) - Authors, B. Hanson and R. Wilhelmi.

Company/ Brand	Variety	Maturity Group	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2012 2-yr. avg. ----- (bu/a) -----	
Hefty	H008L3 ²	0.8	8/31	32	19.9	31.1	56.6	--
Hefty	H0212L ²	0.2	9/4	28	20.1	30.4	50.7	48.5
Integra	300803	0.8	9/3	31	19.8	30.7	56.3	--
NDSU	Ashtabula	0.4	9/9	36	20.8	28.6	48.0	--
NDSU	Traill	0	8/31	36	19.9	30.7	54.5	50.6
Peterson	L009-13 ²	0.9	9/2	33	19.5	30.9	53.8	--
Peterson	L03-12N4 ²	0.3	9/6	33	19.9	30.5	48.8	49.1
Richland	M0205	0.2	9/8	32	19.4	30.8	39.6	38.3
SK Food	SK 0007	000.4	8/22	22	18.3	34.2	30.0	--
SK Food	SK 0034	0.0	9/6	33	19.7	29.3	51.7	--
SunOpta	Bravado	00.9	8/25	33	19.9	28.7	46.1	47.9
SunOpta	Valor	0.1	9/3	38	19.4	30.8	52.3	--
Mean			9/2	33	19.8	30.4	48.2	46.9
CV %			1.6	6.6	1.6	2.2	11.7	--
LSD 0.10			3.0	3.8	0.5	1.1	9.7	--

Planted: May 14. Harvested: Sept. 18.

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

²Liberty Link.

Table 29. 2012 Soybean - Roundup Ready - Vesleyville (Langdon REC) - Authors, B. Hanson and R. Wilhelmi (Page 1 of 2).

Company/ Brand	Variety	Maturity Group	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield ------(bu/a)----- 2012 2-yr. Avg.	
Asgrow	AG00632	00.6	8/25	33	19.8	29.8	48.8	49.3
Asgrow	AG00932	00.9	8/28	35	19.3	30.4	52.4	51.4
Asgrow	AG0231	0.2	8/29	34	18.9	30.4	52.9	53.2
Asgrow	AG0333	0.3	9/8	33	19.6	30.5	61.1	--
Biogene	BG 7009	00.9	8/29	33	19.4	29.6	41.7	--
Biogene	BG 7007	00.7	8/25	32	20.8	30.1	48.3	--
Dyna-Gro	30RY04	00.4	8/25	30	20.7	29.6	50.6	50.2
Dyna-Gro	30RY07	00.7	8/25	32	20.9	29.6	52.5	51.3
Dyna-Gro	S008RY43	00.8	8/28	34	20.0	29.0	52.4	--
Dyna-Gro	34RY03	0.2	8/29	34	19.8	29.7	51.7	--
G2 Genetics	0090	00.9	8/29	32	20.5	30.6	47.1	49.4
G2 Genetics	6009	00.9	8/29	31	20.4	29.2	45.4	47.5
G2 Genetics	6012	0.1	8/29	33	20.2	29.8	43.9	44.9
G2 Genetics	6025	0.2	8/31	32	20.0	30.9	45.5	46.5
Hefty	H007Y12	00.7	8/26	31	20.5	30.5	48.3	48.2
Hefty	H009Y12	00.9	8/28	32	19.3	30.4	48.6	--
Hefty	H00Y12	0.0	9/2	27	20.4	29.9	54.9	52.0
Hefty	H04Y12	0.4	9/5	30	19.7	30.9	47.4	--
Hyland	HS 006RYS24	00.6	8/25	35	19.1	30.5	48.2	--
Hyland	HS 01RY02	0.1	8/28	33	19.9	29.9	48.2	48.0
Hyland ²	HX 007RY32	00.7	8/27	33	19.7	30.3	58.0	--
Hyland ²	DAS007R3	00.7	8/28	32	19.6	30.1	54.4	--
Integra	20031	00.3	8/26	33	19.8	29.3	47.0	--
Integra	20080	00.8	8/28	33	19.7	29.1	50.6	--
Integra	20090	00.9	8/28	31	19.3	30.7	41.9	45.9
Integra	20109	0.1	9/3	28	19.5	30.8	46.9	--
Integra	97014	0.1	8/29	32	20.6	30.4	50.3	50.5
Mustang	00971	00.9	8/29	33	19.8	29.7	46.8	49.3
Mustang	00913	00.9	9/2	28	19.2	30.8	52.6	51.7
Mustang	01212	0.1	9/1	28	20.2	30.5	57.0	54.7
Mycogen	5G009R2	00.9	8/27	33	19.3	30.5	43.0	--
Mycogen	5B024R2	0.2	8/29	34	19.6	29.9	55.8	55.5
NorthStar	NS0096R2	00.9	8/27	33	20.2	28.5	49.8	49.2
NorthStar	NS0098R2	00.9	9/4	29	19.2	30.8	52.8	--
NorthStar	NS0108R2	0.1	9/2	27	19.1	31.0	44.8	--
NorthStar	NS0187R2	0.1	8/30	27	20.6	30.4	55.3	--
Peterson	12R007	00.7	8/25	30	20.9	29.6	48.5	46.8
Peterson	11R01	0.1	8/28	34	20.0	28.7	48.1	49.8
Peterson	12R03	0.3	9/1	31	19.2	30.9	47.5	--
Peterson	13R03	0.3	9/6	32	19.6	30.3	50.3	--
Pioneer	90Y01	0.0	8/31	37	20.5	29.6	45.8	--
Pioneer	900Y81	00.8	8/31	32	19.2	29.0	46.2	48.2
Prairie	PB-00760R2	00.7	9/27	33	19.7	30.8	52.1	--
Prairie	PB-00844R2	00.8	8/27	34	20.0	29.6	53.8	--
Prairie	PB-0131R2	0.1	9/4	29	19.2	31.2	48.3	--
Mean			8/29	32	19.8	30.0	49.3	49.7
CV %			1.2	6.7	1.3	1.5	11.3	--
LSD 0.10			1.5	2.5	0.4	0.8	6.5	--

Table 29. 2012 Soybean - Roundup Ready - Vesleyville (Langdon REC) - Authors, B. Hanson and R. Wilhelmi (Page 2 of 2).

Company/ Brand		Maturity Group	Maturity ¹ (date)	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield ----- (bu/a) ----- 2012 2-yr. Avg.	
Prairie	PB-0240R2	0.2	8/27	35	19.6	30.5	56.9	55.5
Prairie	PB-00950R2	00.9	8/28	33	19.5	30.4	50.0	51.9
Proseed	P2 10-08	00.8	8/30	34	19.6	30.4	46.8	--
Proseed	P2 20-08	00.8	8/28	32	20.1	28.6	46.0	--
Proseed	P2 20-00	0.0	9/3	28	19.1	30.7	52.3	--
Proseed	P2 11-10	0.1	9/1	26	20.1	30.3	49.2	49.4
Proseed	P2 10-20	0.2	8/29	34	19.5	29.8	47.1	47.7
REA	55G22	00.5	8/25	31	20.6	30.1	49.5	49.4
REA	58G82	00.8	8/28	32	19.5	29.7	51.9	52.2
REA	61G21	0.1	8/26	33	20.2	28.6	41.8	45.3
REA	62G22	0.2	8/28	34	19.5	30.0	49.8	53.3
REA	64G14	0.4	9/5	33	20.1	30.2	47.8	--
Seeds 2000	0091 RR2Y	00.9	8/30	33	19.5	30.1	44.0	46.2
Stine	02RD00	0.2	9/3	29	19.2	30.6	47.0	--
Syng NK	S00-A7	00.7	8/24	29	20.4	30.6	48.5	--
Syng NK	S02-B4	0.2	8/26	33	19.8	29.7	44.2	47.5
Thunder	32005R2Y	00.5	8/24	30	20.6	29.5	48.3	46.1
Thunder	33009R2YN	00.9	8/28	32	19.7	29.1	48.5	--
Thunder	3201R2Y	0.1	9/1	28	20.2	30.0	55.3	51.5
Thunder	3202R2Y	0.2	9/5	28	19.7	30.6	47.6	--
Thunder	31009R2Y	00.9	8/29	34	19.3	30.1	52.0	51.0
Wensman	W 30084R2	00.8	8/29	34	19.4	29.6	48.9	50.9
Wensman	W 30088R2	00.8	9/3	27	19.2	30.8	49.2	--
Wensman	W 30091R2	00.9	8/28	33	19.8	28.9	41.3	46.0
Wensman	W 30099R2	00.9	8/31	35	20.0	28.5	54.5	--
Mean			8/29	32	19.8	30.0	49.3	49.7
CV %			1.2	6.7	1.3	1.5	11.3	--
LSD 0.10			1.5	2.5	0.4	0.8	6.5	--

Planted: May 14. Harvested: Sept. 18.

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).²All lines are commercially available except those designated experimental.

Table 30. 2012 Soybean - Roundup Ready - Lakota (Langdon REC) - Authors, B. Hanson and R. Wilhelmi (Page 1 of 2).

Company/ Brand	Variety	Maturity		Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
		Group	Maturity ¹ (date)				2012	2-yr. Avg. -----(bu/a)-----
Asgrow	AG00932	00.9	9/1	32	18.6	30.6	65.1	55.2
Asgrow	AG0231	0.2	9/4	33	18.8	30.5	70.9	61.0
Asgrow	AG0333	0.3	9/12	31	18.5	32.3	63.3	--
Asgrow	AG0430	0.4	9/9	30	18.9	30.6	64.3	53.8
Channel Bio	00806R2	00.8	9/1	28	19.3	30.5	65.6	--
Channel Bio	0205 R2	0.2	9/3	34	18.7	30.9	72.0	--
Dairyland	DSR-C506/R2Y	00.5	8/31	28	20.0	31.0	68.3	--
Dairyland	DSR-C905/R2Y	00.8	9/2	28	19.6	30.0	63.2	--
Dairyland	DSR-0200/R2Y	0.2	9/3	33	19.4	30.2	68.5	--
Dairyland	DSR-0404/R2Y	0.4	9/12	30	19.2	30.9	66.8	--
Dyna-Gro	30RY04	00.4	8/30	26	20.2	31.1	59.1	52.4
Dyna-Gro	30RY07	00.7	9/1	27	20.0	31.2	64.0	55.5
Dyna-Gro	S008RY43	00.8	9/4	31	19.7	30.3	61.7	--
Dyna-Gro	34RY03	0.2	9/3	34	19.2	30.0	66.7	--
G2 Genetics	0090	00.9	9/3	27	20.6	30.1	57.3	--
G2 Genetics	6009	00.9	9/7	28	20.2	31.1	59.7	51.1
G2 Genetics	6012	0.1	9/8	33	19.0	31.5	56.1	48.9
G2 Genetics	6025	0.2	9/7	28	19.3	31.0	56.9	50.0
Hefty	H007Y12	00.7	9/1	28	19.5	32.6	58.9	--
Hefty	H009Y12	00.9	9/5	32	18.3	32.0	67.7	--
Hefty	H00Y12	0.0	9/7	26	19.6	31.2	63.9	53.5
Hefty	H04Y12	0.4	9/11	28	19.3	32.1	56.8	48.5
Hyland	HS 006RYS24	00.6	8/30	31	18.9	30.3	63.5	--
Hyland ²	HX 007RY32	00.7	9/1	28	19.0	31.5	63.7	--
Hyland ²	DAS007R3	00.7	9/2	27	19.4	30.7	61.2	--
Integra	20031	00.3	9/1	31	19.2	30.0	68.4	--
Integra	20052	00.5	8/31	27	18.5	31.1	60.7	52.0
Integra	20080	00.8	9/4	28	20.0	29.8	61.4	--
Integra	20090	00.9	9/4	31	19.4	29.4	63.4	54.9
Integra	20109	0.1	9/11	26	18.5	31.7	64.6	--
Mycogen	5G009R2	00.9	9/4	33	18.9	30.5	65.9	--
Mycogen	5B024R2	0.2	9/2	33	19.2	30.1	65.8	55.8
NorthStar	NS0096R2	00.9	9/3	32	19.8	28.8	64.8	54.2
NorthStar	NS0098R2	00.9	9/10	26	18.5	31.6	64.8	--
NorthStar	NS0108R2	0.1	9/7	28	18.7	31.3	63.7	--
NorthStar	NS0187R2	0.1	9/6	24	19.4	32.0	63.2	--
Peterson	12R007	00.7	9/1	27	20.4	30.9	60.3	51.1
Peterson	11R01	0.1	9/3	33	19.4	30.2	66.3	55.4
Peterson	12R03	0.3	9/11	27	19.0	31.5	69.3	--
Peterson	13R03	0.3	9/12	29	19.0	31.3	63.4	--
Pioneer	90Y01	0.0	9/6	33	19.7	29.7	58.3	--
Pioneer	900Y81	00.8	9/6	29	18.7	30.4	58.4	51.7
Prairie	PB-00760R2	00.7	9/4	27	18.8	31.7	60.2	--
Prairie	PB-00844R2	00.8	9/3	28	19.8	30.1	69.8	--
Prairie	PB-0131R2	0.1	9/11	26	18.5	31.9	65.9	--
Mean			9/5	30	19.2	30.8	63.9	54.1
CV %			1.8	6.7	1.9	2.3	6.8	--
LSD 0.10			2.3	2.3	0.6	1.2	5.1	--

Table 30. 2012 Soybean - Roundup Ready - Lakota (Langdon REC) - Authors, B. Hanson and R. Wilhelmi (Page 2 of 2).

Company/ Brand	Variety	Maturity		Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Seed Yield	
		Group	Maturity (date) ¹				2012	2-yr. Avg.
Prairie	PB-0240R2	0.2	9/4	32	18.6	31.1	71.1	--
Prairie	PB-00950R2	00.9	9/3	33	18.7	31.0	66.3	--
Proseed	P2 20-00	0.0	9/9	25	18.5	31.6	64.2	--
Proseed	P2 11-10	0.1	9/6	25	19.8	31.3	62.7	52.8
Proseed	P2 10-20	0.2	9/4	31	18.8	29.9	64.6	54.2
Proseed	P2 20-30	0.3	9/12	30	19.0	31.1	65.1	--
Proseed	P2 11-50	0.4	9/11	33	19.5	29.4	68.5	56.5
REA	55G22	00.5	9/1	26	20.3	30.6	63.0	--
REA	58G82	00.8	9/3	30	18.9	30.4	61.0	54.1
REA	61G21	0.1	9/3	29	19.5	29.8	63.8	54.8
REA	62G22	0.2	9/4	32	18.9	30.3	65.3	55.1
REA	64G14	0.4	9/10	32	18.9	31.3	63.4	--
Seeds 2000	0091 RR2Y	00.9	9/4	32	18.8	30.5	65.1	58.2
Syng NK	S00-A7	00.7	8/29	26	20.3	31.4	58.5	--
Syng NK	S02-B4	0.2	9/3	31	19.4	30.3	65.5	56.2
Thunder	32005R2Y	00.5	8/29	29	20.0	30.8	66.3	55.1
Thunder	33009R2YN	00.9	9/3	30	19.3	30.7	68.9	--
Thunder	3201R2Y	0.1	9/6	26	19.1	32.7	64.6	53.6
Thunder	3202R2Y	0.2	9/12	32	18.5	32.8	62.7	--
Thunder	31009R2Y	00.9	9/5	33	18.8	31.3	66.0	55.1
Wensman	W 30084R2	00.8	9/4	31	19.2	30.1	65.9	55.5
Wensman	W 30088R2	00.8	9/10	27	18.5	32.0	63.8	--
Wensman	W 30091R2	00.9	9/4	31	19.4	29.9	67.7	56.5
Wensman	W 30099R2	0.9	9/5	32	20.0	29.6	64.1	--
Mean			9/5	30	19.2	30.8	63.9	54.1
CV %			1.8	6.7	1.9	2.3	6.8	--
LSD 0.10			2.3	2.3	0.6	1.2	5.1	--

Planted: May 17. Harvested: Sept. 24.

¹Days to physiological maturity at R7 stage (one brown pod on the main stem obtains mature brown or tan color).²All lines are commercially available except those designated experimental.

Table 31. 2012 Soybean - Roundup Ready - Minot (North Central REC) - Authors, E. Eriksmoen, A. Sebelius and J. Tarasenko.

Company/Brand	Variety	Maturity		Test	Seed	Seed	Seed Yield
		Group	Lodging ¹ (0-9)	Weight (lb/bu)	Oil (%)	Protein (%)	2012 (bu/a)
Asgrow	AG00632	00.6	1	57.1	20.0	29.0	38.0
Asgrow	AG00932	00.9	1	57.2	20.1	28.3	38.9
Asgrow	AG0231	0.2	1	57.1	20.2	28.0	45.4
Asgrow	AG0333	0.3	0	57.2	20.8	28.5	37.8
Channel Bio	00506R2	00.5	0	57.6	21.2	29.0	38.5
Channel Bio	00806R2	00.8	1	57.2	20.5	28.1	43.9
Dyna-Gro	30RY04	00.4	0	57.3	21.1	28.8	47.0
Dyna-Gro	30RY07	00.7	0	57.3	21.6	27.3	44.3
Dyna-Gro	S008RY43	00.8	1	57.1	20.1	28.6	47.8
G2 Genetics	6005	00.4	1	57.2	21.0	28.7	53.5
G2 Genetics	90	00.9	1	57.3	20.7	30.9	45.3
G2 Genetics	6009	00.9	0	57.2	21.2	28.2	48.6
G2 Genetics	6012	0.1	0	57.2	21.6	26.4	42.3
G2 Genetics	6025	0.2	0	57.0	21.1	28.6	45.4
Hefty	H004Y12	00.4	0	57.4	21.5	28.3	45.8
Hefty	H007Y12	00.7	0	57.4	21.6	28.1	42.5
Hefty	H00Y12	00.0	1	57.2	20.7	29.7	55.0
Hefty	H02Y12	0.2	0	56.4	20.5	29.8	46.3
Hefty	H008Y11	00.8	1	56.8	20.4	28.1	49.2
Integra	20080 R2Y	00.8	1	57.1	19.9	28.3	49.3
Integra	20090 R2Y	00.9	1	56.7	20.1	28.8	53.2
Integra	20109 R2Y	0.1	2	56.9	19.9	30.0	39.9
Integra	20300 R2Y	0.3	1	56.1	20.2	29.2	67.5
Mycogen	5B005R2	00.5	1	57.3	21.0	29.1	57.1
Mycogen	5B007R2	00.7	1	57.4	20.8	29.0	55.2
Mycogen	5G009R2	00.9	1	56.8	20.0	28.8	53.4
Mycogen	5B0024R2	0.2	1	57.0	20.1	29.0	53.4
NorthStar	NS0057R2	00.5	1	57.1	19.3	30.3	54.8
NorthStar	NS0077R2	00.7	2	56.8	20.4	30.5	54.6
NorthStar	NS0096R2	00.9	2	57.1	20.3	28.1	57.8
NorthStar	NS0098R2	00.9	2	56.8	19.8	30.4	53.1
Pioneer	900Y71	00.0	0	57.2	20.6	28.7	47.6
Pioneer	900Y81	00.0	1	56.4	20.2	28.1	41.7
Pioneer	90Y01	00.1	0	57.1	21.4	27.4	44.0
Proseed	P2 10-08	00.8	1	56.6	20.6	27.4	42.0
Proseed	P2 20-08	00.8	0	57.2	20.9	27.4	48.6
Proseed	P2 11-07	00.7	0	57.1	20.6	29.8	56.4
Proseed	P2 10-20	0.2	1	57.0	20.7	28.2	36.7
Proseed	P2 11-10	0.1	0	57.3	20.7	30.1	46.5
Proseed	P2 20-00	0.0	2	57.0	20.1	29.8	43.6
Seeds 2000	0091 RR2Y	00.9	1	56.7	20.2	27.9	43.0
Thunder	32005R2Y	00.5	1	57.1	20.8	28.9	53.4
Thunder	31009R2Y	00.9	0	57.2	20.5	27.8	49.1
Thunder	33009R2YN	00.9	1	57.2	20.7	27.8	41.1
Thunder	3201R2Y	0.1	1	57.2	20.5	29.4	47.9
Thunder	3202R2Y	0.2	2	56.2	20.0	29.5	49.2
Thunder	3303R2Y	0.3	1	56.8	20.2	28.5	47.9
Mean			1	57.0	20.5	28.7	47.8
CV %			129	0.7	2.9	3.5	5.9
LSD 0.10			1	0.4	0.7	1.2	3.3

Planted: May 15 with a seeding rate of 200,000 pure live seed. Harvested: Sept. 25.

¹Lodging: 0 = none, 9 = lying flat on the ground.

Table 32. 2012 Soybean - Roundup Ready - McClusky (North Central REC) - Authors, E. Eriksmoen, A. Sebelius and J. Tarasenko.

Company/Brand	Variety	Maturity Group	Plant Height (inch)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2012 (bu/a)
G2 Genetics	90	00.9	33	58.7	21.0	29.5	57.5
G2 Genetics	6009	00.9	36	58.9	21.5	27.6	54.3
G2 Genetics	6012	0.1	36	58.5	20.9	28.6	56.6
G2 Genetics	6025	0.2	37	58.2	20.6	29.4	56.3
G2 Genetics	6043	0.3	33	58.0	20.4	28.7	59.1
G2 Genetics	6052	0.4	34	55.2	20.9	29.0	56.9
Integra	20090 R2Y	00.9	36	57.6	19.8	29.1	60.1
Integra	20109 R2Y	0.1	35	58.6	19.7	30.3	63.5
Integra	20300 R2Y	0.3	35	57.1	20.5	28.1	64.4
NorthStar	NS0108R2	0.1	32	58.2	19.5	30.1	66.2
NorthStar	NS0187R2	0.1	35	58.2	20.9	28.6	63.4
NorthStar	NS0216R2	0.2	36	56.9	20.3	28.4	62.5
NorthStar	NS0318R2	0.3	35	56.9	20.5	27.6	65.5
Peterson	12R007	00.7	32	59.1	21.2	28.8	57.7
Peterson	11R01	0.1	40	58.9	20.6	28.9	52.8
Peterson	12R03	0.3	35	57.9	20.5	28.5	71.2
Pioneer	90Y01	00.1	36	58.6	21.0	28.6	57.1
Proseed	P2 10-08	00.8	34	58.2	20.3	28.3	60.3
Proseed	P2 20-08	00.8	33	58.8	20.7	27.5	61.0
Proseed	P2 11-07	00.7	29	59.4	21.2	28.9	55.2
Proseed	P2 10-20	0.2	37	58.3	20.8	27.6	49.3
Proseed	P2 11-10	0.1	36	58.7	21.2	28.0	63.2
Proseed	P2 20-00	0.0	35	56.5	19.7	30.3	65.8
Seeds 2000	0091 RR2Y	00.9	37	57.0	20.2	28.2	55.6
Thunder	32005R2Y	00.5	30	59.4	20.7	29.3	55.9
Thunder	31009R2Y	00.9	34	57.4	20.4	27.4	61.7
Thunder	33009R2YN	00.9	36	58.6	20.6	27.9	54.9
Thunder	3201R2Y	0.1	33	58.5	21.3	27.2	58.9
Thunder	3202R2Y	0.2	34	55.9	20.5	27.9	64.1
Thunder	3303R2Y	0.3	38	57.1	19.9	28.7	74.8
Mean			35	58.0	20.6	28.6	60.2
CV %			11.6	1.5	2.2	3.6	7.5
LSD 0.10			NS	1.1	0.5	1.2	5.3

Planted: May 10 with a seeding rate of 200,000 pure live seeds. Harvested: Sept. 26.

Table 33. 2012 Soybean - Conventional - Minot (North Central REC) - Authors, E. Eriksmoen, A. Sebelius and J. Tarasenko.

Company/ Brand	Variety	Maturity Group	Plant Height (inch)	Lodging ¹ (0-9)	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2012 (bu/a)
Gold Cntry	140	00.0	39	1	56.4	20.6	28.0	45.1
Gold Cntry	241	00.0	39	0	56.8	20.5	28.1	36.9
Integra	30300N	0.3	33	1	57.1	20.8	29.8	51
NDSU	Ashtabula	0.4	39	0	57.1	21.8	26.0	44.1
NDSU	Cavalier	00.7	37	1	56.9	20.3	28.3	45.1
NDSU	ProSoy	0.8	40	3	55.5	19.9	30.2	34.3
NDSU	Sheyenne	0.8	33	1	56.9	20.8	26.9	49.1
NDSU	Traill	00.0	34	0	56.8	20.3	29.7	36.1
Peterson	L009-13	00.9	34	1	57.4	20.6	28.8	39.5
Peterson	L03-12N	0.3	30	1	56.9	20.9	28.7	48.4
SK Food	SK0007	00.0	30	0	57.3	19.9	30.0	36.0
SK Food	SK0034	0.0	36	1	57.2	20.3	27.0	37.3
SK Food	SK918	0.4	33	1	56.9	21.1	27.9	44.7
Mean			35.0	1	56.8	20.6	28.6	42.3
CV %			10	112	0.6	2.7	3.4	6.3
LSD 0.10			4.0	1.0	0.4	0.7	1.2	3.1

Planted: May 15 with a seeding rate of 200,000 pure live seeds. Harvested: Sept. 25.

¹Lodging: 0 = none, 9 = lying flat on the ground.

Table 34. 2012 Soybean - Conventional - Hettinger - Author, R. Olson.

Company/ Brand	Variety	Maturity Group	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed 2012 (bu/a)	Yield 3-Yr. Avg. (bu/a)
NDSU	Ashtabula	0.4	54.1	20.5	27.8	33.6	33.2
NDSU	Cavalier	00.7	54.3	18.6	30.3	30.5	31.5
NDSU	ND1005T	0.5	55.0	19.1	33.3	30.1	--
NDSU	ProSoy	0.8	54.3	18.6	31.5	34.4	31.5
NDSU	Sheyenne	0.8	55.0	19.3	28.9	38.5	38.5
NDSU	Traill	00.0	55.7	19	30.8	22.6	29.0
Mean			54.7	19.2	30.4	31.6	32.7
CV %			1.8	2.2	2.0	4.9	--
LSD 0.10			NS	0.5	0.8	1.9	--

Planted: April 16. Harvested: Sept. 4. Previous crop: oat.

Table 35. 2012 Soybean - Dryland, Roundup Ready - Williston - Authors, G. Bradbury, C. Penuel and S. Loomer.

Company/ Brand	Variety	Days to Flower (DAP) ¹	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed Yield 2012 ---(bu/a)---	
Croplan	R2T00832	56	15	22.2	29.8	56.3	16.0	
Croplan	R2T0091	58	16	22.2	29.8	57.6	13.1	
Croplan	R2T0231	58	18	22.1	30.3	57.5	16.4	
G2 Genetics	0090	56	17	22.6	31.7	56.7	15.0	
G2 Genetics	6009	57	16	22.3	32.0	56.1	18.4	
G2 Genetics	6012	57	16	22.6	29.0	57.0	16.0	
G2 Genetics	6025	56	16	21.6	31.7	57.4	12.8	
G2 Genetics	6043	59	15	22.2	31.3	57.2	15.7	
Hefty	H004Y12	56	17	22.4	30.2	56.6	15.6	
Hefty	H007Y12	55	16	22.9	30.0	56.5	19.1	
Hefty	H008Y11	57	18	22.2	29.8	57.0	17.7	
Hefty	H00Y12	56	15	22.1	31.3	56.0	13.5	
Peterson	12R03	59	18	21.6	30.8	57.0	20.7	
Peterson	12R06	61	15	21.6	31.5	56.5	16.0	
Proseed	P2 10-08	55	19	22.3	29.6	57.4	17.6	
Proseed	P2 11-07	58	16	22.5	30.9	56.4	16.9	
Proseed	P2 20-08	56	15	22.4	29.1	56.5	17.4	
Syng NK	S00-A7	59	15	21.8	31.5	56.6	16.7	
Syng NK	S02-B4	60	16	22.1	29.9	57.7	13.8	
Syng NK	S06-H5	60	18	22.3	31.4	56.9	15.3	
Syng NK	S06-R9	60	15	21.4	31.3	57.6	12.8	
Mean		58	16	22.2	30.6	56.9	16.0	
CV %		2.3	12.5	1.4	2.5	0.5	12.8	
LSD 0.10		1.6	2.4	0.5	1.3	0.4	2.4	

Planted: May 17. Harvested: Sept. 25.

¹DAP = Days after planting.**Table 36. 2012 Soybean - Dryland, Conventional - Williston - Authors, G. Bradbury, C. Penuel and S. Loomer.**

Company/ Brand	Variety	Days to Flower (DAP) ¹	Plant Height (inch)	Seed Oil (%)	Seed Protein (%)	Test Weight (lb/bu)	Seed yield 2012 3-yr. Avg. ------(bu/a)-----	
NDSU	Ashtabula	59	15	21.1	32.0	57.3	12.6	13.1
NDSU	Cavalier	56	14	20.3	32.8	57.6	10.2	11.7
NDSU	ND1005T	55	17	20.3	36.7	58.0	13.3	13.5
NDSU	ProSoy	62	13	20.3	35.0	56.5	9.9	13.3
NDSU	Sheyenne	60	15	21.1	31.6	57.8	14.5	14.3
NDSU	Traill	60	14	20.2	34.3	57.2	9.9	12.8
Mean		59	15	20.5	33.7	57.4	11.7	13.1
CV %		1.4	7.6	2.4	2.4	0.5	17.9	--
LSD 0.10		1.0	1.4	1.0	1.6	0.6	156	--

Planted: May 17. Harvested: Sept. 25. Previous crop: durum.

¹DAP = Days after planting.

Table 37. 2012 Soybean - Irrigated, Roundup Ready - Williston - Authors, T. Tjelde and C. Wahlstrom.

Company/ Brand	Variety	Days to	Plant	Seed	Seed	Test	Seed Yield	
		Flower (DAP) ¹	Height (inch)	Protein (%)	Oil (%)	Weight (lb/bu)	2012	---
Croplan	R2T0085	43	33	29.5	18.4	56.7	59.1	
Croplan	R2T0091	43	33	30.6	17.4	57.3	61.7	
Croplan	R2T0231	43	37	32.3	16.9	57.8	54.0	
NuTech	90	43	33	31.7	18.7	56.7	54.0	
NuTech	6009	47	32	32.0	18.3	56.5	52.1	
NuTech	6012	47	30	30.5	18.3	57.0	54.1	
NuTech	6025	47	31	32.1	18.2	56.7	57.0	
NuTech	6043	47	31	31.9	17.6	57.0	58.8	
Peterson	12R03	50	32	31.2	17.6	57.4	57.8	
Peterson	12R06	49	30	32.4	17.1	57.2	53.8	
Proseed	50-07	43	32	30.7	18.5	56.8	47.1	
Proseed	P2 10-08	43	35	30.7	17.2	57.5	60.4	
Proseed	P2 11-07	47	28	31.3	18.2	56.3	50.4	
Proseed	P2 20-08	43	32	30.4	17.6	56.4	47.0	
Syng NK	S00-A7	43	31	32.2	18.2	56.0	54.5	
Syng NK	S02-B4	47	32	30.6	18.0	57.5	55.0	
Syng NK	S06-H5	49	34	32.3	17.7	57.3	58.3	
Syng NK	S06-R9	49	32	31.1	17.5	57.6	62.7	
Syng NK	S06W2	49	33	31.9	16.9	57.2	55.3	
Mean		46	32	31.3	17.8	57.0	55.4	
CV %		0.4	7.4	1.6	1.5	0.4	11.1	
LSD 0.10		0.3	4.2	0.8	0.5	0.4	7.3	

Planted: May 23. Harvested: Oct. 9. Previous crop: sunflower.

¹DAP = Days after planting.**Table 38. 2012 Soybean - Irrigated, Conventional - Williston - Authors, T. Tjelde and C. Wahlstrom.**

Company/ Brand	Variety	Days to	Plant	Seed	Seed	Test	Seed yield	
		Flower (DAP) ¹	Height (inch)	Protein (%)	Oil (%)	Weight (lb/bu)	2012	3-yr. Avg.
NDSU	Ashtabula	49	41	27.9	19.0	57.0	54.0	54.7
NDSU	Cavalier	43	34	27.4	17.9	57.7	48.5	50.1
NDSU	ND1005T	43	41	31.0	18.1	57.7	44.3	48.4
NDSU	ProSoy	49	38	32.6	17.2	57.4	41.5	45.6
NDSU	Sheyenne	49	40	29.1	17.4	57.6	66.5	60.6
NDSU	Traill	47	34	31.1	17.8	58.3	48.5	51.4
SK Food	SK 0007	43	27	30.2	18.0	58.6	33.2	--
SK Food	SK 0034	52	31	26.1	18.4	56.9	41.6	--
SK Food	SK 0786	47	35	32.5	17.2	57.4	45.5	--
SK Food	SK 0796	47	36	32.1	17.5	57.0	42.0	--
SK Food	SK 972	43	40	29.1	18.0	57.8	59.0	53.4
Mean		47	36	29.9	17.9	57.6	47.7	52.0
CV %		--	5.2	3.4	3	0.6	12.6	--
LSD 0.10		--	3.5	1.8	1	0.7	7.3	--

Planted: May 23. Harvested: Oct 9. Previous crop: wheat.

¹DAP = Days after planting.²Roundup Ready check.

Table 39. 2012 Soybean - Roundup Ready - Combined Griggs and Steele Counties - Authors, H. Kandel, J. Ransom, G. Mehring and C. Deplazes.

Company/Brand	Variety	Maturity Group	Test Weight (lb/bu)	Seed Oil (%)	Seed Protein (%)	Seed Yield 2012 (bu/a)
Asgrow	AG0333	0.3	55.7	18.3	33.8	47.2
Asgrow	AG0430	0.4	57.3	18.3	33.7	42.8
Asgrow	AG0732	0.7	57.6	18.4	34.0	42.7
Asgrow	AG0832	0.8	56.5	18.5	34.2	44.0
Croplan	R2T0231	0.2	56.2	18.3	33.7	40.0
Croplan	R2T0451	0.4	55.3	18.3	34.4	44.4
Croplan	R2T0601	0.6	57.3	18.0	34.1	44.2
Dairyland	0200 R2Y	0.2	56.3	18.3	33.4	40.6
Dairyland	0404 R2Y	0.4	56.6	18.4	34.4	43.8
Gold Cntry	0241	0.2	55.9	18.5	33.6	40.3
Hyland	01RY02	0.1	57.1	18.3	33.0	43.6
Hyland	04RY03	0.4	56.8	17.7	34.4	40.4
Hyland	03RY33	0.3	56.6	17.7	33.9	37.4
Integra	20600	0.6	56.7	17.4	34.2	45.6
Integra	78070R	0.7	55.4	18.4	34.2	42.0
NorthStar	0318R2	0.3	56.8	17.6	34.1	48.6
NorthStar	0537R2	0.5	58.2	17.4	33.8	49.5
NorthStar	0618R2	0.6	56.1	17.8	34.3	43.9
NorthStar	0626R2	0.6	57.4	18.4	33.9	49.8
Peterson	13R03	0.3	57.3	18.0	34.4	42.9
Peterson	12R05	0.5	57.6	17.7	33.9	47.3
Peterson	12R06	0.6	57.4	18.7	33.7	41.7
Pioneer	90Y50	0.5	57.7	18.4	33.8	45.3
Pioneer	90Y51	0.5	55.6	18.8	33.8	41.3
Pioneer	90Y81	0.8	58.1	18.6	33.6	42.6
Pioneer	90Y70	0.7	56.3	18.6	34.2	38.7
Stine	03RD66	0.3	55.4	18.1	34.4	43.3
Stine	05RC68	0.5	57.9	18.1	33.9	43.7
Thunder	31009R2Y	0.9	58.3	18.7	32.8	43.9
Thunder	3303R2Y	0.3	56.8	17.9	34.4	45.4
Thunder	3205R2Y	0.5	55.8	17.6	34.0	45.4
Mean			56.8	18.2	33.9	43.6
CV %			1.5	2.0	1.2	8.1
LSD 0.10			1.4	0.6	0.7	NS

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