

2016 NORTHERN REGIONAL SOYBEAN CYST NEMATODE TESTS

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2016 NORTHERN REGIONAL SCN TESTS

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INTRODUCTION

The purpose of the Northern Regional Soybean Cyst Nematode (SCN) Tests is to evaluate the best experimental SCN resistant soybean lines developed by public researchers in the U. S. and Canada and to provide soybean breeders with a source of genetically diverse germplasm for continued progress in the release of well adapted, SCN resistant breeding lines and varieties. Participants are encouraged to exchange germplasm within the legal guidelines pertaining to transgenic strains.

Tests are established for each maturity group 00 to IV. Transgenic (ie. Roundup Ready) entries are established in separate tests from conventional strains. Experimental strains are evaluated in Preliminary Tests grown at a limited number of locations for one year before they are entered in Uniform Tests. Uniform Tests are grown at more locations with more replications than Preliminary Tests.

POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Northern Regional SCN Tests

- 1) Participants must be willing and able to conduct separate tests for conventional strains and strains containing proprietary and/or transgenic traits. However, all participants are not required to evaluate both; and, placement of entries in tests depends on whether the entries are transgenic or non-transgenic.
- 2) Participants are individually responsible to ensure that any proprietary and/or transgenic strains that they submit are approved for human consumption and are cleared for sale as commodity seed.
- 3) Participants must disclose pedigrees to the Uniform Test Coordinator for publication with performance data in Uniform Soybean Test Report unless contract arrangements prohibit disclosure of information.
- 4) It is recommended that breeders obtain written permission for the use of privately developed varieties or strains as parents in the development of lines included in the Uniform Tests.

Use of Northern Regional SCN Test Entries in Soybean Breeding and Research

- 1) Seed of Uniform test entries is for evaluation in the Uniform tests only and may not be distributed to non-participants of these tests without prior approval by the originator of the entry.
- 2) Uniform Test participants must obtain written approval before using any entry, other than their own, in any breeding or genetic studies, or for any other research.
- 3) Experimental strains entered in the Uniform Tests should be labeled "Experimental Strain" and should not be identified by strain designation when grown in demonstration plots or when the Uniform Tests are shown on field days or farm tours.
- 4) Seed of any transgenic entry must not be used for further evaluation without written permission from the originator of the entry, and must be discarded at the end of the season, except for crossing purposes, subject to the restrictions outlined in the preceding section two.

Release of Northern Regional SCN Test Entries

- 1) Entries in the Northern Regional SCN Tests are released according to the policies and procedures of the originating institution.
- 2) Restricted or contractual releases cannot impose any restriction on the prior use of an entry as a parent by SCN Test Participants.

METHODS

Regional SCN Uniform Tests and Preliminary Tests are planted in multiple-row plots with the center rows used for data collection and harvested for yield. Plots in the Uniform Tests are generally replicated three times while plots in the Preliminary Tests are generally replicated twice. The coefficient of variability (CV) is reported for replicated data at each location. Yield data with a CV value of greater than 15 is generally not included in the test means.

Descriptive Code is abbreviated as underlined below.

Flower color: Purple, White, M indicates mixed flower color

Pubescence color: Tawny, Gray, Light tawny, M indicates mixed pubescence color

Hilum color: black, imp perfect black, brown, buff, gray, yellow

Previous testing is the number of previous years in the same SCN Uniform Test or a reference to the previous year's test, abbreviated to SCN PIII for SCN Preliminary Test III, for example.

Yield is measured after the seeds have been dried to a uniform moisture content and is recorded in bushels (60 pounds) per acre.

Maturity is the date when 95% of the pods have ripened. Delayed leaf drop and green stems are not considered in assigning maturity. Maturity is expressed as days earlier (-) or later (+) than the reference variety.

Height is the average length in inches from the ground to the tip of the main stem at maturity.

Lodging is rated at maturity according to the following scores:

1 = Almost all plants erect.

2 = All plants leaning slightly or a few plants down.

3 = All plants leaning moderately (45 degrees), or 25 to 50% of the plants down.

4 = All plants leaning considerably, or 50 to 80% of the plants down.

5 = Almost all plants down.

Seed quality is rated according to the following scores considering the amount and degree of wrinkling, defective seed coat (growth cracks), greenishness, and moldy or rotten seeds. Threshing or handling damage is not included, nor is mottling or other pigment.

1 = Very good 2 = Good 3 = Fair 4 = Poor 5 = Very poor

Seed size is recorded in grams per 100 seeds based on a 100 or 200 seed sample.

Seed Composition is measured on samples submitted to the University of Minnesota. A 25-gram sample of clean seed is prepared by taking an equal volume or weight of seed from each replication. Protein and oil content is measured on these samples using infrared reflectance and is reported as dry-weight percentage values. The values listed in this report have been converted to a 13% moisture basis.

Shattering is scored at a specified time after maturity and is based on estimates of the percent of open pods as follows:

- 1 no shattering
- 2 1 to 10% shattered
- 3 10 to 25% shattered
- 4 25 to 50% shattered
- 5 over 50% shattered

Minnesota Iron Chlorosis scores (IDC) Scores are the mean of 2 reps and 2 observation and are based on the amount and severity of chlorosis (leaf yellowing). Scale; 1 = no chlorosis to 5 = severe chlorosis, leaf necrosis and possibly plant death. Data was collected from Lake Lillian and Wilkin Co. Minnesota.

ISU Iron Chlorosis scores (IDC) Each variety was planted in a hill plot consisting of five seeds per hill, with two replications per variety, at two high pH field locations in central Iowa. Locations were chosen by identifying IDC symptoms on soybeans growing in each field at the end of June. Prior to planting the experiments, the soybeans growing at each location were removed. Notes were taken for IDC symptoms at each location approximately four weeks after planting and again at five weeks after planting. Varieties were rated on a scale of “1” to “5” with a “1” indicating no symptoms of IDC present and a “5” indicating plant death due to IDC. Ratings from the two scores were averaged for each plot. The scores from each location then were averaged. Eight or more entries of a variety highly resistant to IDC (A11) and 8 or more entries of a variety highly susceptible to IDC (Dwight) also were included in each rep of the experiment as checks. The average score of all resistant plots and susceptible plots are listed on the tables under R= and S=, respectively.

Green Stem is a rating of delayed green stem at time of plant maturity (R8 = 95% of the pods have reached mature pod color). The condition is rated according to the following scores.

- 1 = almost all plant stems yellowing or have ripened, as indicated by their mature stem color.
- 2 = 1 - 10% plants with green stems
- 3 = 11 - 25% plants with green stems
- 4 = 26 - 50% plants with green stems
- 5 = > 50% plants with green stems.

ISU Emergence Scores – Emergence was assessed by counting all plants in 1 random meter of the inner two rows of each plot 35-40 days after planting. Plots were planted at a rate of 10 seeds per foot. Emergence scores are listed as percent stand.

Missouri Frogeye Leaf Spot (FELS) was rated by Dr. Allen Wrather at Portageville, MO on a 0 to 9 scale with 0=no frogeye and 9=severe.

Missouri Rootknot Nematode (RKNT) was rated on 2 reps on a 1 to 5 scale with 1=no galls and 5=severe galls at 2 locations in plantings behind potatoes near Bertrand, MO.

SCN/DISEASE SCREENING

Illinois SCN greenhouse test: Seed of each entry is germinated in germination paper placed in an incubator at 27° C for three days. One healthy seedling of each entry is then placed in an individual container of sterilized sandy soil and inoculated with 1,000 eggs. Each entry is replicated three times. Infected seedlings are grown in a greenhouse in a water bath system that maintains a constant 27° C soil temperature. After 30 days, female cysts are washed from the roots of each seedling and counted. A female index (FI) is calculated for each entry by dividing the mean number of cysts on the entry by the mean number of cysts on the susceptible check Lee 74 and multiplying by 100. Entries are then rated as highly resistant (HR), resistant (R), moderately resistant (MR), low resistance (LR) or no effective resistance (NR) based on the FI number as follows:

HR = FI of < 10

R = FI of 10 to 24

MR = FI of 25 to 39

LR = FI of 40 to 59

NR = FI of > 60

nd = not determined FI>10, CV>35

Illinois Sudden Death Syndrome rating: Plots were scored in the field by Southern Illinois University. All disease scores were interpolated to the R 6.2 growth stage.

DX = SDS Disease Index (DI*DS/9)

DI = SDS Disease Incidence (% of plants with visible symptoms).

DS = SDS Disease Severity (1 = mild chlorosis, 5 = severe leaf scorch, 9=premature plant death).

Heterodera glycines (HG) Type testing: Cooperators submit soil samples taken in the spring from SCN infested locations. Initial egg counts are made on a 250cc soil sample. Samples containing fewer than 1,000 eggs/100cc soil are planted to Essex for cyst increase. Seed of each indicator line is germinated in rag dolls and placed in an incubator at 27° C for three days. One healthy seedling of each line is then placed in an individual container of sterilized sandy soil and inoculated with 1,000 eggs. Each line is replicated six times. Infected seedlings are grown in a greenhouse under 16 hour light in a water bath system that maintains a constant 27° C soil temperature. After 30 days, female cysts are washed from the roots of each seedling and counted. A female index (FI) is calculated for each indicator line by dividing the mean number of cysts on the entry by the mean number of cysts on the susceptible check Lee 74 and multiplying by 100. A FI greater than or equal to 10 is considered a positive (+) response on each indicator line. HG Type classifications of the SCN populations are determined using the following table:

Indicator line	HG Type							
	0	1	2	3	4	5	6	7
PI 548404 (Peking)		+						
PI 88788			+					
PI 90763				+				
PI 437654					+			
PI 209332						+		
PI 89772							+	
PI 548316 (Cloud)								+

STRAIN DESIGNATIONS

Experimental (i.e. unreleased) strains are identified by a number with a state or province code letter prefix. The code letters have been agreed upon in meetings of experiment station agronomists with the U.S. Department of Agriculture. Additional code letters may be used to designate the individual within a state or province that developed the strain.

A	Iowa
C	Purdue (Indiana)
D	Mississippi
E	Michigan
HC	Ohio (Cooper)
HF	Ohio (Fioritto)
HS	Ohio (St. Martin)
K	Kansas
Ky	Kentucky
L	Illinois (Bernard)
LN	Illinois (Nickell)
LG	Illinois (Nelson)
LD	Illinois (Diers)
LS	Southern Illinois University
M	Minnesota
Md	Maryland
ORC	Ridgetown, Ontario
S	Missouri (Shannon)
SA	Missouri (Scaboo)
SS	Missouri (Sleper)
SD	South Dakota
TN	Tennessee
U	Nebraska
UD	Delaware
V	Virginia
W	Wisconsin

2016 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
235.T	line from Schillinger Seed Co.
236FHP	
435.TCS	line from Schillinger Seed Co.
A00-711022	A95-485020 x IA2036
A00-711024	A95-485020 x IA2036
A04-543037	Dairyland 98822 x A00-711024
A04-545045	Pioneer 93B86 x A00-711022
A1	Anoka x Mack
A13	Selection from AP9 Fe(S1) C7
A20	BSR101 x CN210
A29	1% linolenic plant selection developed by Iowa State University
A55-5629-4	Roanoke x Hawkeye
A72-507	Amsoy x Wayne
A76-103022	AP6
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A77-211021	Beeson x A72-507
A81-356022	Century x A76-304020
A82-161034	A76-103002 x A77-211021
A86-301024	A81-356022 x Hack
A87-395012	Fayette x Asgrow A3659
A91-701035	A86-301024 x Dekalb 226
A92-526007	A20 x Asgrow A2234
A94-773014	Pioneer P9303 x A87-395012
A95-485020	(Pioneer P7273 x A13) x Jack
A95-684043	Jacques J285 x (Archer x (Cordell x Asgrow A2234))
A96-492041	Northrup King S24-92 x Northrup King S19-90
A97-553017	Pioneer YB280 x (Pioneer YB280 x A29)
A98-781041	Pioneer P9204 x Pioneer P9281
A99-216031	A94-773014 x Agripro AP1995
Agripro 97284-N00-47977	
Agripro AP 26	Beeson x Calland
Agripro AP1989	Agripro AP26 x Vickery
Agripro AP1995	Agripro AP 1989 x Asgrow A3427
AP6	Crop Sci. 15:739 1975
AP68-1016	Clark(5) x PI 84.946-2
AR02-101001	Pioneer P9233 x A96-591033
AR03-161009	(PI 507354 x Marcus) x IA1008
AR03-161013	
AR05-150119	
AR05-150139	Loda x SOY02-2
AR05-250101	Syngenta S10-F2 x Pana

2016 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
AR06-165058	Golden Harvest H-2632 x GarstAgripro 97023-A99-03284
AR06-365042	Golden Harvest H-2632 x Syngenta S18-N5
AR06-365076	GarstAgripro 96349-A99-30264 x Golden Harvest H-2632
AR07-175036	A95-684043 x Soygenetics 95-34480
AR07-175064	Golden Harvest X33686 x Syngenta S18-N5
AR07-176090	Ag03-1 x Ag03-3
AR07-176119	
AR07-276077	
AR09-291001	Agripro 97284-N00-47977 x AR02-101001
AR09-391017	Syngenta SJ833009 x AR03-161013
AR1	IA2039BC x IA2021
AR10-305198	SS02-11958 x AR05-150119
AR16SCN	
AR2	
AR3	
Asgrow A1564	Hark x C1453
Asgrow A2234	[(Calland X Amsoy) x (Century(3) X Williams 82)]
Asgrow A2943	Asgrow A1564 x Asgrow A3127
Asgrow A3127	Williams x Essex
Asgrow A3237	
Asgrow A3427	Asgrow X3836 x Asgrow A3127
Asgrow A3659	Williams x Essex
Asgrow A3733	Elf x Asgrow A3127
Asgrow A3860	Williams x Essex
Asgrow A3935	MO474C x Asgrow A3127
Asgrow A4009	Asgrow A3860 x Fayette
Asgrow A4138	Asgrow A4595 x Asgrow A4009
Asgrow A4595	Douglas x Asgrow A3127
Asgrow A4715	Asgrow A5474 x (Douglas x Asgorw A3127)
Asgrow A5474	(Tracy x D71-6234) x J74-122
Asgrow X3836	Williams x Mack
AX19286-4-7	
AX19287-1-5	
AX19288-1-11	
C1079	Lincoln x Ogden
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1079
C1423	C1266R(8) x C1253
C1453	C1266R x C1253
CL04-13234	
CL05-32415	
CL06-121119	IA3017

2016 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
CM304	Unknown
D49-2491	S100 x CNS = sister line of Lee
D61-2624	D49-2491(4) x PI 174.862 high protein
D61-3505	D49-2491(2) x PI 174.862 high protein
D66-7398	D61-3505 x (PI 96.035 x D61-2624)
D71-6234	D66-7398 x PI 95.560
Dairyland 75213-72	Dairyland 98820-33 x Asgrow A3237
Dairyland 75334	
Dairyland 75358-74	
Dairyland 88504	
Dairyland 98820-33	
Dairyland 98822	
Dairyland 99540	Stine 2660 x DSR-275
Dairyland 99753-81	88504 x P93B82
Dairyland DSR 365	
Dairyland DSR-275	
Dekalb 226	
Dekalb 339c	
Dekalb 420c	
DS-880	
E00003	
E05181-T	Loda x IA2053
E05226-T	
E05276-T	
E06161	OAC 98-12 x Skylla
E06936	PI494182 x Skylla
E07048	IA3017 x Loda
E07051	IA3017 x Loda
E09014	AxN-1-55 x A00-711003
E10906	
E10928	
E11358	
E11955	
GarstAgriPro 96349-A99-30264	
GarstAgriPro 97023-A99-03284	
GarstAgriPro 98180-A01-06131	
Golden Harvest H-2632	
Golden Harvest H-2632	
Golden Harvest X33686	
IAR2001BSR	
IAR2101	
IVR 1120	Provar x (AX56P64-1 x PI 191.110-1)

2016 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
J74-122	
Jacques J285	
JTN-5203	
K07-1633	IA3023 x LD00-3309
K08-5026	K03-2399 x LS01-1987
L15	Wayne(6) x Clark 63
L46-2132	Lincoln(2) x Richland
L57-0034	L46-2132 x Adams
L66L-154	Wayne x L57-0034
L69-4143	[L15(5) x ((Clark(6) x T201) x (Clark(6) x T145))] x (Wayne(10) x Kanrich)
L73-4673	Corsoy x L66L-154(Williams sib)
L77-906	Williams X PI209.332
L77-994	Williams x PI88.788
L85P-558	L73-4673 X Fayette
LD00-1938	Pana x Savoy
LD00-2187	324 3B x Olympus
LD00-2817	Ina x Dwight
LD00-3296	LN95-5724 x Pana
LD00-3309	Maverick x Dwight
LD00-4970	Maverick x Dwight
LD01-5907	Ina x IA3010
LD01-7323	LN95-5454 x Dwight
LD02-4485	M90-184111 x IA3010
LD02-5320	IA2052 x Dwight
LD02-5868	Macon x LN93-13684
LD03-10504	LN97-26569 x A98-781041
LD03-6566	LN95-6446 x SS96-5637
LD04-11056	U96-2208 x Syngenta S38-T8
LD04-11056W	White flowered reselection from LD04-11056
LD04-12754	IA3023 x U98-311442
LD04-13265	Syngenta S32-Z3 x U98-205355
LD04-13296	Syngenta S32-Z3 x U98-311442
LD04-8782	Syngenta S32-Z3 x Dwight
LD05-1540	Syngenta S25-J5 x SS98-3403
LD05-16638	Dwight(3) x (Dowling x Loda)
LD05-30578a	LD00-3309(2) x [LD00-4970(2) x (Dowling x Loda)]
LD05-30588a	LD00-3309(2) x (LD00-4970(2) x (Dowling x Loda))
LD05-3171	U97-201128 x Syngenta S42-H1
LD05-3230	Syngenta S25-J5 x LD00-3296
LD06-7596	IA3023 x LD00-3309
LD06-7620	IA3023 x LD00- 3309
LD06-7648	IA3023 x LD00-3309

2016 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
LD06-7862	DSR-305 x LD00-3309
LD06-7984	Macon x LD01-5907
LD07-2192	IA3023 x LD02-4485
LD07-3395	Syngenta WW115926 x LD00-2817
LD07-3419	WW115926 x LD00-2817
LD07-5065	(Dwight x SCN soja BC3F1)
LD08-12430a	LD02-4485(2) x (Ina x PI 200538)
LD08-12438a	LD02-4485(2) x (Ina x PI 200538)
LD08-12446a	LD02-4485(2) x (Ina x PI 200538)
LD08-3936	LD02-5868 x LD00-4970
LD08-4767a	LD02-5320 x [LD00-3309(3) x (LD00-4970(2) x (Dowling x Dwight))]
LD09-13023a	LD05-3230 x (LD02-4485(2) x (Ina x PI 200538))
LD09-15077	LD02-4485(6) x (Ina x PI 200538)
LD09-15464	LD04-8782(3) x [LD03-6566 x (LD02-4485 x (Ina x PI 200538))]
LD09-15487	LD04-8782(3) x [LD03-6566 x (LD02-4485 x (Ina x PI 200538))]
LDX01-1-65	A81-356022(5) x PI468916
LDX07-178a-1-7	LD05-16638 x (Dwight x (Ina x PI 200538))
LG00-3372	PI 561.319A x PI 574.477
LG04-4468	
LG04-5372	Rend x LG97-9301
LG05-2359	
LG06-5920	LG00-3372 x LD00-3309
LG88-8959	PI 253.665D x PI 283.331
LG89-7793	PI 391.594 x Century
LG97-9301	LG89-7793 x LG88-8959
LN93-13684	Jack x Chapman
LN94-14862-97-2	Jack x Hartwig
LN95-5454	Jack x IA3003
LN95-5724	Jack x IA3003
LN95-6446	Jack x Iroquois
LN97-26569	Yale x Macon
LS00-4221	LS92-3660 x Asgrow 4138
LS01-1158	LS92-4173 x Dekalb 339c
LS01-1734	LS93-0375 x IA3005
LS01-1804	
LS01-3450	LS93-0375 X Dekalb 420c
LS01-3615	LS93-0375 x Mustang
LS02-0425	LN93-11632 x IA1008
LS02-2213	LS93-0375 x SS94-4337
LS03-4294	
LS05-0202	SS98-3403 x U98-307917
LS05-3229	LS93-0375 x Ina

2016 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
LS07-3125	SS98-7851 x LD00-3309
LS92-3660	Resnik x Asgrow A5474
LS92-4173	Flyer x Pyramid
LS93-0375	Asgrow A3935 x Pioneer P9402
LS97-3617	Flyer x Asgrow A4138
LS98-0582	Northrup King S46-44 x Asgorw A4138
LSX1207	
M00-116161	MN0901 x MN0902CN
M00-351195	MN0902CN x M95-123116
M00-365137	Jim x LN94-14862-97-2
M00-365181	Jim x LN94-14862-97-2
M01-213045	
M01-314114	MN0902CN x M95-123116
M01-315029	A99-216031 x M95-123023
M02-141020	MN0302 x F1(M01-303)
M02-383122	MN0902CN x MN0091
M02-385091	MN0902CN x M95-255017
M02-391112	IA1008 x M96-356062
M03-176076	M97-205062 X MN1404SP
M03-914036	MN0902CN x B00497B016
M04-212034	M98-240104 x MN0902CN
M04-212108	M98-240104 x MN0902CN
M04-254003	
M04-336008	M98-240104 x IA2064
M60-406	Blackhawk X Harosoy
M68-303	M60-406 X Beeson
M71-148	Clay x Evans
M75-89	Corsoy X M68-303
M85-23	M71-148 x Simson
M85-647	Ozzie x Fayette
M86-1973	L77-906 x M75-89
M86-1973	L77-906 X M75-89
M87-227	A82-161034 X Dawson
M87-349	
M90-1437	Dawson X HM8536
M90-178161	M85-23 x A20
M90-184111	L85P-558 X M86-1973
M92-1525	M85-647 x Bell
M92-1631	Fairbault x Bell
M92-1708	Kato x Bell
M92-270029	M87-227 x M87-349
M92-674	Agassiz x Ozzie

2016 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
M93-313135	Agassiz x M90-1437
M95-123023	Parker x M92-1631
M95-123116	Parker x M92-1631
M95-255017	M92-1525 x A92-526007
M96-356062	M92-674 x M92-1708
M99-286047	IA1008 x Pioneer 9234
MN03-7556	
MSC10-567	
ND01-2765	
ND03-5441	Barnes x MN0602CN
ND03-5672	Barnes x SD96-33
ND03-7267	
ND03-7566	Barnes x MN0602CN
ND04-11111	OAC Atwood x (Barnes x IA1009)
ND04-11421	MN0902CN x (SD96-702 x Loda)
ND04-11603	(IA1009 x Sargent) x MN0902CN
ND04-11730	MN161045 x (Barnes x IA1009)
ND04-12689	Sargent x MN0902CN
ND06-25513	MN1006CN x ND01-2765
ND07-4635	MN1006CN x Walsh
NE0900094	
Northrup King S1346	A55-5629-4 x PI 257.435
Northrup King S19-90	Pride B152 x Pella
Northrup King S24-92	
Northrup King S35-35	Northrup King S39-99 x Asgrow A3127
Northrup King S39-11	Fayette x Northrup King S42-30
Northrup King S39-99	S1492 x Mack
Northrup King S42-30	Essex x Agripro 35
Northrup King S42-32	MO2050 x Asgrow A5474
Northrup King S46-44	Asgrow A5474 x Asgrow A3127
OAC 98-12	
OAC06-02	
OT92-8	Baron x Maple Donovan
OX-802	
Pioneer 9234	SCN resistant line from Peking
Pioneer 93B82	
Pioneer 93B86	
Pioneer P1677	Corsoy(2) x Rampage
Pioneer P2981	S20 x Hark
Pioneer P9004	Maple Ridge x Lakota
Pioneer P9061	Wells x Pioneer P1677
Pioneer P9071	Pioneer P9061 x Pioneer P9181

2016 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
Pioneer P9181	Beeson x Williams
Pioneer P9204	
Pioneer P9273	Pioneer 2981 x Asgrow A3127
Pioneer P9281	Hark x (Corsoy x Calland)
Pioneer P92B12	
Pioneer P9303	Asgrow A2943 x Asgrow A5474
Pioneer P9341	CM304 x Asgrow A3127
Pioneer P9362	Asgrow A2943 x Asgrow A5474
Pioneer P9381	(Essex x L69-4143) x Sprite
Pioneer P9402	(L77-994 x Asgrow A3127) x L77-994
Pioneer YB280	
Pioneer YB33A99	
PR33	rust resistant line from Georgia
Pride B152	Northrup King S1346(6) x Mack
RxEF59-70	
RxEF59-70	
S05-11400	S00-9925-10 x S98-3403
S05-11482	S99-2281 x S00-9985-03
S08-17361	LG04-5196 x S00-9925-10
S20	L15 x C1423
S88-1318	Peking x Elf
S91-5371-17	Williams(2) x (Forrest x PI 437.654)
SD487	
SD96-33	
Soy02-2	
Soygenetics 95-34480	
SS02-11958	Hamilton x PI438489B
SS94-4337	Jack x Pioneer P9341
SS96-5637	S88-1318 x S91-5371-17
SS98-3403	
SS98-7851	Pioneer P9362 x Magellan
Stine 2660	
Syngenta 03JR101916	
Syngenta 03JR313108	
Syngenta 03JR321088	
Syngenta 04BR307588	BPR4316N x 95678-B98-51401
Syngenta 04RM819800	
Syngenta 05BR006009	SG801122200 x 96601-B99-17498
Syngenta 05JR200591	
Syngenta 06NB203585	30240-B02-15187 x 97199-A00-10391
Syngenta 06NB204846	WW115926 x 98211-A01-36153
Syngenta BN0800009	

2016 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
Syngenta S10-F2	
Syngenta S18-N5	
Syngenta S18-N5	
Syngenta S25-J5	
Syngenta S32-Z3	
Syngenta S32-Z3	
Syngenta S38-T8	
Syngenta S42-H1	
Syngenta SJ0800020	
Syngenta SJ833009	
Syngenta WN0800105	
Syngenta WW115926	
T145	
T180	F3 sib of T181
T181	Non-nodulating rjl mutant in Lincoln(2) x Richland
T201	T181 x T180
U01-390489	IA1008 x NE3001
U02-242055	
U03-100612	
U03-100612	U99-009019 x Pioneer P92B12
U03-300134	NE3202 x Pioneer P92B12
U05-226055	
U07-336229	
U09-105007	
U94-2306	Holt x Dairyland DSR 304
U96-2208	Colfax x A91-701035
U97-201128	U94-2306 x UP1Fe-95-9
U98-205355	A94-773014 x Bell
U98-307917	
U98-311442	A94-773014 x Bell
U99-009019	MSBP6S4 (Intermated population)
Var 75881	

2016 NORTHERN REGIONAL SCN TEST LOCATIONS

			SCN*	Uniform Tests						Preliminary Tests				
Location	Cooperator	00		0	I	II	III	IV	0	I	II	III	IV	
IA	Mason City	S. Cianzio	I			X					X			
IA	Arlington	S. Cianzio	I			X					X			
IA	Moorhead	S. Cianzio	I				X					X		
IA	Boone	S. Cianzio	I				X					X		
IA	Glenwood	S. Cianzio	I					X					X	
IA	Muscatine	S. Cianzio	I					X					X	
IL	Pontiac	B. Diers	NI				X					X		
IL	Arthur	B. Diers	I					X					X	
IL	Neoga	B. Diers	I						X					X
IL	Urbana	B. Diers	I			X	X	X	X		X	X	X	X
IL	Carbondale	S. Kantartzi	I						X					X
IN	West Lafayette	G. Nowling	I				X	X						
KS	Manhattan	W. Schapaugh	I					X	X				X	X
KS	Onaga	W. Schapaugh	NI					X	X					X
KS	Ottawa	W. Schapaugh	NI					X	X					X
MI	Decatur	D. Wang	I				X					X		
MN	Gary	A. Lorenz	I	X										
MN	Downer	A. Lorenz	I	X										
MN	Rosemount	A. Lorenz	I		X					X				
MN	Danvers	A. Lorenz	I		X					X				
MN	Fairfax	A. Lorenz	I		X	X	X			X	X	X		
MN	Waseca	A. Lorenz	I			X	X				X	X		
MN	Lamberton	A. Lorenz	I			X	X				X	X		
MO	Novelty	A. Scaboo	I					X	X**				X	X
MO	Rock Port	A. Scaboo	I					X	X					
MO	Clarkton	G. Shannon	I					X	X					X
MO	Portageville	G. Shannon	NI					X	X					
ND	Absaraka	T. Helms	I	X**	X**					X**				
ND	Wyndmere	T. Helms	I	X	X					X				
NE	Auburn	G. Graef	I				X	X				X	X	
NE	Columbus	G. Graef	I				X	X				X	X	
OH	Hoytville	L. McHale	NI				X	X						
OH	Plain City	L. McHale	I					X						
ON	Ridgetown	M. Eskandari	I			X								
ON	Ottawa	E. Cober	NI	X	X									
ON	St. Pauls	I. Rajcan	NI		X									
ON	Woodstock	I. Rajcan	NI		X					X				
ON	Chatham	T. Welacky	I			X	X							
ON	Harrow	T. Welacky	I			X	X							
TN	Jackson	P. Arelli	I						X					X
Total Tests				5	8	9	14	16	11	6	6	10	8	9

Special observation plots				00	0	I	II	III	IV	0	I	II	III	IV
MN	Iron chlorosis	J. H. Orf	IDC	X	X	X	X			X	X	X		
IA	Iron chlorosis	C. Cianzio	IDC			X	X	X			X	X	X	
IL	SDS field screening	A. Korando	SDS			X	X	X	X					
IL	SCN Greenhouse	A. Colgrove	SCN	X	X	X	X	X	X	X	X	X	X	X

* I = infested, NI = non-infested, ** Data not submitted

2016 NORTHERN REGIONAL SCN TESTS LOCATIONS
Characteristics of *Heterodera glycines* populations

				Female Index (% of Lee 74)								
		Eggs/	HG 1	HG 2	HG 3	HG 4	HG 5	HG 6	HG 7			
Location	HG Type	100cc	Peking	88788	90763	437654	209332	89772	Cloud	438489B	Pickett	
IA Mason City	1960	2.3.5.6.7	7	19	13	0	21	11	20	9	24	
IA Arlington	200	2.5.7	1	39	0	0	30	0	35	37	20	
IA Moorhead	4400	2.5.7	0	17	0	0	15	0	23	59	3	
IA Boone	240	1.2.5.7	18	38	3	0	46	2	40	48	64	
IA Glenwood	1120	1.2.5.7	11	16	0	0	22	0	45	67	15	
IA Muscatine	2320	2.5.7	0	44	7	0	35	0	38	23	0	
IL Pontiac	0	NI										
IL Arthur	560	2.5.7	5	13	8	0	21	5	29	48	18	
IL Neoga	1920	2.5.7	0	17	0	0	27	0	37	10	0	
IL Urbana	40	2.5.7	4	38	1	0	48	1	50	52	43	
IL Carbondale		I	7	19	13	0	21	11	20	9	24	
IN West Lafayette		I	Testing incomplete at time of publication									
KS Manhattan		I										
KS Onaga		NI										
KS Ottawa		NI										
MI Decatur	3920	2.5.7	2	39	0	0	39	1	35	25	34	
MN Gary		I										
MN Downer		I										
MN Rosemount	2960	2.5.7	1	17	0	0	19	0	25	7	7	
MN Danvers	2080	2.5.7	0	44	0	0	37	0	52	57	37	
MN Fairfax	16240	1.2.5.7	25	36	3	0	45	5	44	38	55	
MN Waseca	560	2.5.7	3	13	9	0	12	0	28	53	21	
MN Lamberton		I										
MO Novelty	520	2.5.7	6	26	2	0	42	2	70	74	54	
MO Rock Port	240	2.5.7	0	25	0	0	40	0	43	31	5	
MO Clarkton	80	2.5.7	5	25	1	0	21	0	36	5	41	
MO Portageville		NI										
ND Absaraka	6160	5.7	0	7	0	0	17	0	21	48	5	
ND Wyndmere	1240	0	0	4	0	0	7	0	9	.	0	
NE Auburn	3440	2.5.7	0	17	0	0	20	0	41	13	21	
NE Columbus	1360	0	0	2	1	0	2	0	2	10	9	
OH Hoytville	0	NI										
OH Plain City	160		Testing incomplete at time of publication									
ON Ridgetown		I										
ON Ottawa		NI										
ON St. Pauls		NI										
ON Woodstock		NI										
ON Chatham	4880	2.5.7	0	23	0	0	15	0	26	34	4	
ON Harrow	7120	2.5.7	3	13	0	0	10	1	17	20	23	
TN Jackson	133	1.2.5.7	data provided by cooperator									

2016 NORTHERN REGIONAL SCN TESTS SCN SCREENING

HG 0		initial		retest	
6 reps		Mean	FI	Mean	FI
Lee		272		182	
Essex		218		151	
HG1	PI548402	0	0	0	0
HG2	PI88788	11	4	10	5
HG3	PI90763	0	0	0	0
HG4	PI437654	0	0	0	0
HG5	PI209332	10	4	8	4
HG6	PI89772	0	0	0	0
HG7	PI548316	21	8	17	9
PI438489B				58	32
Pickett		1	0	3	2

HG 2.5.7		initial		retest	
6 reps		Mean	FI	Mean	FI
Lee		320		222	
Essex		289		176	
HG1	PI548402	0	0	0	0
HG2	PI88788	103	32	83	37
HG3	PI90763	0	0	0	0
HG4	PI437654	0	0	0	0
HG5	PI209332	142	44	90	41
HG6	PI89772	0	0	0	0
HG7	PI548316	174	54	109	49
PI438489B				69	31
Pickett		11	4	3	2

*=small root

**=rep data too variable to rate

		HG 0				
Test	ent.	Strain	mean	cv	FI	rating
U00	1	MN0071 (00)	163	16	60	NR
U00	2	Henson	199	27	73	NR
U00	3	MN0095	111	80	41	retest
	3	MN0095	64	27	35	MR
U00	4	MN0208CN	30	30	11	R
U00	5	M07-292111	30	10	11	R
	5	M07-292111				
U00	6	M08-359176	86	93	32	retest
	6	M08-359176	36		20	R
U00	7	ND13-5619	214	35	79	NR
U00	8	ND13-7727	231	28	85	NR
U00	9	ND13-7968	51	14	19	R
	9	ND13-7968				
U0,I	1	Sheyenne	226	15	83	NR
U0,I	2	MN1410	146	20	54	L
U0	4	MN0606CN	22		8	HR
	4	MN0606CN				
U0	5	M08-151025	15		5	HR
U0	6	M08-354011	36		13	R
U0	7	M08-357102	87	123	32	retest
	7	M08-357102	55	70	30	**
U0	8	M08-359053	60	70	22	retest
	8	M08-359053	85	30	47	LR

HG 2.5.7				SCN Resistance source
mean	cv	FI	rating	
201	7	63	NR	none
211	7	66	NR	none
228	13	71	NR	none
181	5	57	LR	PI 88788
183	3	57	retest	PI 88788
154	6	69	NR	
222	7	70	NR	PI 88788,209332
194	10	61	NR	PI 88788
250	13	78	NR	PI 88788
223	20	70	retest	PI 88788
101	14	46	LR	
255	26	80	NR	none
221	10	69	NR	none
198	26	62	retest	PI 88788
163	6	73	NR	
264	21	83	NR	PI 88788
198	13	62	NR	PI 88788
220	27	69	NR	PI 88788
206	14	64	NR	PI 88788,209332

2016 NORTHERN REGIONAL SCN TESTS SCN SCREENING

Test	ent.	Strain	HG 0				HG 2.5.7				SCN Resistance source
			mean	cv	FI	rating	mean	cv	FI	rating	
U0	9	M08-362045	19		7	HR	167	14	52	LR	PI 88788, Peking
U0	10	M09-269045	27		10	R	222	10	70	NR	PI 88788,209332
U0	11	M09-274025	249	20	92	NR	259	12	81	NR	PI 88788
U0	12	M09-274049	178	29	66	NR	223	27	70	NR	PI 88788,209332
U0	13	ND09-5798	204	12	75	NR	219	7	69	NR	PI 88788
U0	14	ND10-2763	205	33	75	NR	220	26	69	NR	PI 88788
U0	15	ND10-3464	24	24	9	HR	202	11	63	NR	PI 88788
P0	5	M10-181003	24	38	9	HR	215	12	67	retest	PI 88788
	5	M10-181003					161	3	72	NR	
P0	6	M10-181020	42		15	R	198	16	62	NR	PI 88788
P0	7	M10-181025	30		11	R	216	23	68	NR	PI 88788
P0	8	M10-181060	45		17	R	191	20	60	NR	PI 88788
P0	9	M10-181065	22		8	HR	191	18	60	NR	PI 88788
P0	10	M10-181070	33		12	R	261	10	82	NR	PI 88788
P0	11	M10-186021	8		3	HR	177	18	55	LR	PI 88788
P0	12	M10-187011	9		3	HR	207	17	65	LR	PI 88788
P0	13	M10-187121	4		2	HR	201		63	retest	PI 88788
	13	M10-187121					106	18	48	LR	
P0	14	M10-221048	42		16	R	195	22	61	NR	PI 88788
P0	15	M10-221067	232	34	85	NR	256	4	80	NR	PI 88788
P0	16	M10-221090	253	8	93	NR	223	23	70	NR	PI 88788
P0	17	M10-221099	131	62	48	retest	220	7	69	NR	PI 88788
	17	M10-221099	54	7	30	MR					
P0	18	M10-249041	186	28	68	NR	221	11	69	NR	PI 561389B
P0	19	M11-108078	99	31	36	MR	246	17	77	NR	PI 88788
P0	20	MSC10-561019	121	85	45	retest	215	16	67	NR	PI 629013
	20	MSC10-561019	86	5	47	LR					
P0	21	ND12-13257	222	5	82	NR	212	6	66	NR	PI 88788
P0	22	ND13-4453	162	19	60	NR	213	14	67	NR	PI 88788
P0	23	ND13-5752	262	14	96	NR	191	1	60	retest	PI 88788
	23	ND13-5752					172	9	78	NR	
P0	24	ND13-7728	202	29	74	NR	249	39	78	retest	PI 88788
	24	ND13-7728					143	19	64	NR	
P0	25	ND13-7810	215	34	79	NR	213	4	67	NR	PI 88788
P0	26	ND13-7831	235	4	86	NR	238	23	74	NR	PI 88788
P0	27	ND13-7974	82	28	30	MR	235	30	74	NR	PI 88788
P0	28	ND13-8443	216	34	80	NR	242	12	76	NR	PI 88788

2016 NORTHERN REGIONAL SCN TESTS SCN SCREENING

Test	ent.	Strain	HG 0				HG 2.5.7				SCN Resistance source
			mean	cv	FI	rating	mean	cv	FI	rating	
P0	29	ND13-8522	193	14	71	NR	243	32	76	NR	PI 88788
P0	30	ND13-8691	232	25	85	NR	149	30	47	LR	PI 88788
U I,II	2	IA1022 (SCN)	72	22	26	MR	171	20	54	LR	PI88788
U I	4	U11-917032	30		11	R	201	23	63	NR	PI 88788
U I	5	AR13-131003	17		6	HR	182	2	57	retest	PI 567516C,88788
	5	AR13-131003					105	8	47	LR	
U I	6	M07-209037	14		5	HR	120	18	37	MR	PI 88788
U I	7	M08-359087	33	81	12	retest	185	21	58	LR	PI 88788,209332
	7	M08-359087	14		8	HR					
U I	8	M09-269079	35		13	R	183	4	57	retest	PI 88788,209332
	8	M09-269079					126	6	57	LR	
U I	9	M09-278026	18		7	HR	136	26	43	retest	PI 88788
	9	M09-278026					130	26	59	LR	
U I	10	M09-278134	22		8	HR	172	21	54	LR	PI 88788
U I	11	M09-285032	61		23	R	229	23	72	NR	PI 88788,209332
U I	12	M09-285056	24		9	HR	180	12	56	LR	PI 88788,209332
U I	13	M09-285149	18		7	HR	164	13	51	LR	PI 88788,209332
U I	14	MSC09-774074	11		4	HR	201	35	63	retest	PI 567516C
	14	MSC09-774074					134	8	60	NR	
U I	15	MSC09-774089	6		2	HR	174	4	55	LR	PI 567516C
U I	16	MSC09-778027	7		2	HR	156	24	49	LR	PI 438489B
U I	17	ORC 3713N	50	60	19	retest	262	1	82	NR	PI 88788
	17	ORC 3713N	15		8	HR					
P I	5	AR15-158003	12		4	HR	213	9	67	NR	PI 88788
P I	6	AR15-158006	17		6	HR	183	15	57	LR	PI 88788
P I	7	AR15-158038	13		5	HR	220	32	69	NR	Peking
P I	8	AR15-158043	103	155	38	retest	17		5	HR	Peking
	8	AR15-158043	43	169	24	**					
P I	9	AR15-158057	30		11	R	237	4	74	NR	PI 88788
P I	10	AR15-158072	25		9	HR	214	25	67	NR	PI 88788
P I	11	M10-176042	92	41	34	retest	209	7	65	NR	PI 88788
	11	M10-176042	61	65	33	**					
P I	12	M10-208034	61	84	23	retest	232	4	73	NR	PI 88788
	12	M10-208034	135	105	74	**					
P I	13	M10-254090	155	13	57	retest	186	13	58	LR	PI 88788
	13	M10-254090	27	115	15	**					
P I	14	M11-108030	136	75	50	retest	249	26	78	NR	PI 88788
	14	M11-108030	146	14	80	NR					

2016 NORTHERN REGIONAL SCN TESTS SCN SCREENING

Test	ent.	Strain	HG 0				HG 2.5.7				SCN Resistance source
			mean	cv	FI	rating	mean	cv	FI	rating	
P I	15	M11-108079	55		20	R	236	4	74	NR	PI 88788
P I	16	M11-108083	69	26	26	MR	244		76	retest	PI 88788
	16	M11-108083					135	18	61	NR	
P I	17	M11-117005	148	87	54	retest	213	9	67	NR	
	17	M11-117005	110	20	60	NR					
P I	18	M11-125033	66	112	24	retest	213	13	67	NR	PI 88788
	18	M11-125033	41	90	23	**					
P I	19	M11-125046	16		6	HR	228	10	71	NR	PI 88788
P I	20	M11-125077	18	74	7	retest	213	8	67	NR	PI 88788
	20	M11-125077	25		14	R					
P I	21	MSC10-559061	45		16	R	235	34	74	NR	PI 507471
P I	22	MSC10-567015	7		3	HR	104		33	retest	PI 633736
	22	MSC10-567015					71	25	32	MR	
P I	23	MSC10-578011	197	14	73	NR	205	11	64	NR	
P I	24	MSC10-578025	43		16	R	168	34	52	retest	
	24	MSC10-578025					66	72	30	**	
P I	25	MSC10-578046	207	22	76	NR	238	5	74	NR	
P I	26	OAC 14-36C-SCN	32		12	R	206	9	64	NR	
P I	27	OAC 14-37C-SCN	76	49	28	retest	255	2	80	retest	
	27	OAC 14-37C-SCN	23	3	12	R					
	27	OAC 14-37C-SCN					149	16	67	NR	
P I	28	OAC 14-39C-SCN	252	6	93	NR	225	23	70	NR	
P I	29	OAC 14-40C-SCN	202	59	74	retest	202	8	63	NR	
	29	OAC 14-40C-SCN	189	5	104	NR					
P I	30	ORC 1404N	24		9	HR	229	7	72	NR	PI 88788
U II	1	IA2102	49		18	R	214	38	67	NR	None
U II	3	LD02-4485	25		9	HR	169	38	53	retest	PI 88788
	3	LD02-4485					101	9	46	LR	
U II,III	4	U11-920017	201	28	74	NR	137	52	43	retest	None
	4	U11-920017					109	7	49	LR	
U II	5	AR14-247080	1		0	HR	67	133	21	retest	PI 606749,507354,88788
	5	AR14-247080					3	22	1	HR	
U II	6	E12076	40		15	R	238	6	74	NR	PI 88788
U II	7	E13100	30		11	R	145	14	45	LR	PI 88788
U II	8	E13212	49		18	R	224	19	70	NR	PI 88788
U II	9	E13370	183	20	67	retest	257	5	80	NR	PI 88788
	9	E13370	131	11	72	NR					
U II	10	LD10-10198	17		6	HR	195	22	61	NR	PI 88788

2016 NORTHERN REGIONAL SCN TESTS SCN SCREENING

Test	ent.	Strain	HG 0				HG 2.5.7				SCN Resistance source
			mean	cv	FI	rating	mean	cv	FI	rating	
U II	11	LD12-459	11		4	HR	146	9	46	retest	PI 88788
	11	LD12-459					128	7	58	LR	
U II	12	LD12-6010a	102	8	37	retest	207	17	65	NR	PI 88788
	12	LD12-6010a	66	12	36	MR					
U II	13	M08-365100	36		13	R	234	7	73	NR	PI 88788
U II	14	M09-269012	24		9	HR	196	15	61	NR	PI 88788,209332
U II	15	M09-278112	11		4	HR	152	14	48	LR	PI 88788
U II	16	M09-281011	12		5	HR	194	0	61	retest	PI 88788,209332
	16	M09-281011					130	5	58	LR	
U II	17	M09-281100	20		7	HR	190	21	59	retest	PI 88788,209332
	17	M09-281100					156	29	70	NR	
U II	18	MSC09-777143	26	54	10	retest	182	9	57	LR	PI 438489B
	18	MSC09-777143	6		3	HR					
U II	19	ORC 8412N	37		14	R	179	11	56	LR	PI 88788
U II	20	U11-911079	15		6	HR	167	4	52	LR	PI 88788
P II	5	AR15-158020	4		1	HR	9		3	HR	Peking
P II	6	AR15-258003	31	81	11	retest	178	13	56	LR	PI 88788
	6	AR15-258003	4		2	HR					
P II	7	AR15-258006	10		4	HR	167	18	52	LR	PI 88788
P II	8	AR15-258027	38		14	R	207	8	65	NR	PI 88788
P II	9	AR15-258048	2		1	HR	11	31	4	HR	Peking
P II	10	AR15-258069	33		12	R	224	8	70	NR	Peking
P II	11	AR15-258102	70	75	26	retest	207	15	65	NR	PI 88788
	11	AR15-258102	22		12	R					
P II	12	E13901	70		26	R	242	9	76	NR	PI 88788
P II	13	E13902	95	50	35	retest	221	2	69	NR	PI 88788
	13	E13902	31		17	R					
P II	14	E13903	203	35	75	NR	190	37	60	NR	PI 88788
P II	15	E14077	22		8	HR	251	22	78	NR	PI 88788
P II	16	E14141	192	29	71	NR	216	21	68	NR	PI 88788
P II	17	E14143	206	49	76	retest	244	12	76	NR	PI 88788
	17	E14143	160	10	88	NR					
P II	18	E14148	11		4	HR	205	21	64	NR	PI 88788
P II	19	E14208	222	22	82	NR	202	35	63	retest	PI 88788
	19	E14208					109	75	49	**	
P II	20	E14273	81	84	30	retest	232	19	73	NR	PI 88788
	20	E14273	91	54	50	**					

2016 NORTHERN REGIONAL SCN TESTS SCN SCREENING

Test	ent.	Strain	HG 0				HG 2.5.7				SCN Resistance source
			mean	cv	FI	rating	mean	cv	FI	rating	
P II	21	E14309	183	48	67	retest	245	7	77	NR	PI 88788
	21	E14309	131	66	72	**					
P II	22	E14314	15		6	HR	217	1	68	retest	PI 88788
	22	E14314					170	17	77	NR	
P II	23	LD13-1429	12		5	HR	210	3	66	retest	PI 88788,437654
	23	LD13-1429					103	45	46	**	
P II	24	LD13-5120a	36		13	R	202	30	63	NR	PI 88788
P II	25	LD13-5131a	25		9	HR	196	13	61	NR	PI 88788
P II	26	LD13-5789	17		6	HR	166	27	52	LR	PI 88788
P II	27	LD13-6640	24		9	HR	194	0	61	retest	PI 88788,437654
	27	LD13-6640					179	33	81	NR	
P II	28	LD13-6678	74	106	27	retest	204		64	retest	PI 88788,437654
	28	LD13-6678	29		16	R	163	7	74	NR	
P II	29	MSC10-562070	27	68	10	retest	48		48	retest	PI 629013
	29	MSC10-562070	8		4	HR	62	19	28	MR	
P II	30	MSC10-570022	194	26	71	NR	234	14	73	NR	PI 633736
P II	31	ORC 0516N	45		16	R	189	30	59	retest	PI 88788
	31	ORC 0516N					181	4	81	**	
P II	32	ORC 0616N	32		12	R	229		72	retest	PI 88788
	32	ORC 0616N					133	6	60	**	
U III	1	IA3023	179	61	66	NR	97	126	30	retest	None
	1	IA3023					141	4	64	NR	
U III	2	IA3048	4		2	HR	219	11	69	NR	PI 88788
U III,IV	3	LD07-3395bf	4		1	HR	90	8	28	retest	PI 88788,437654
	3	LD07-3395bf					71	25	32	MR	
U III	5	AR13-331019	1		0	HR	11		3	HR	PI 606749
U III	6	AR13-331023	40		15	R	185	33	58	LR	PI 507354,88788
U III	7	LD11-2170	46		17	R	177	22	55	LR	PI 88788
U III	8	LD12-1843	55		20	R	219	34	69	NR	PI 88788
U III	9	LD12-3903	19		7	HR	201	11	63	NR	PI 88788
U III	10	LD12-12701a	10		4	HR	172	21	54	LR	PI 88788
P III	5	AR15-258093	86	36	32	retest	231	9	72	NR	PI 88788
	5	AR15-258093	37		20	R					
P III	6	AR15-358011	17	117	6	retest	194	13	61	NR	PI 428489B
	6	AR15-358011	11		6	HR					
P III	7	AR15-358029	54		20	R	178	17	56	LR	PI 88788
P III	8	AR15-358030	0		0	HR	12		4	HR	Peking

2016 NORTHERN REGIONAL SCN TESTS SCN SCREENING

Test	ent.	Strain	HG 0				HG 2.5.7				SCN Resistance source
			mean	cv	FI	rating	mean	cv	FI	rating	
P III	9	AR15-358063	22		8	HR	169	20	53	LR	PI 428489B
P III	10	LD13-843	36		13	R	183	27	57	LR	PI 88788
P III	11	LD13-1750	49	90	18	retest	205	23	64	NR	PI 88788,437654
	11	LD13-1750	64	31	35	MR					
P III	12	LD13-2000	32		12	R	245	2	77	NR	PI 88788
P III	13	LD13-2008	29		11	R	231	14	72	NR	PI 88788
P III	14	LD13-2594	64	62	24	retest	254	23	79	NR	PI 88788
	14	LD13-2594	43		24	R					
P III	15	LD13-2850	63	59	23	retest	203	7	64	NR	PI 88788
	15	LD13-2850	72	137	40	**					
P III	16	LD13-3483	81	49	30	retest	128		40	retest	PI 88788,437654
	16	LD13-3483	6		3	**	68	125	31	**	
P III	17	LD13-4542a	23		9	HR	222	28	70	NR	PI 88788
P III	18	LD13-5290a	14		5	HR	204	13	64	NR	PI 88788
P III	19	LD13-5775a	15		6	HR	122	14	38	MR	PI 88788,437654
P III	20	LD13-6152	185	22	68	NR	226	17	71	NR	PI 88788,437654
P III	21	LD13-6628	106	90	39	retest	215	9	67	NR	PI 88788,437654
	21	LD13-6628	114	36	63	NR					
P III	22	LD13-6813	152	10	56	LR	217	43	68	retest	PI 88788
	22	LD13-6813					134	4	60	NR	
U IV	1	LD06-7620	47		17	R	198	20	62	NR	PI 88788
U IV	3	LD00-2817P	3		1	HR	7		2	retest	PI 88788,437654
	3	LD00-2817P					5		2	HR	
U IV	4	K11-2363	52	57	19	retest	198	13	62	NR	PI 88788
	4	K11-2363	36		20	R					
U IV	5	K13-1515	26		10	R	198	9	62	NR	PI 88788
U IV	6	K13-1615	54		20	R	297	27	93	NR	PI 88788
U IV	7	LD12-8677	17		6	HR	171	11	54	LR	PI 88788
U IV	8	LD12-10534	188	36	69	retest	168	20	52	LR	PI 88788
	8	LD12-10534	111	28	61	NR					
P IV	4	AR15-358031	2		1	HR	82	160	26	retest	Peking
	4	AR15-358031					5		2	HR	
P IV	5	K14-1094	34	72	13	retest	223	16	70	NR	PI 88788
	5	K14-1094	10		6	HR					
P IV	6	K14-1140	27	76	10	retest	201	18	63	NR	PI 88788
	6	K14-1140	17		9	HR					
P IV	7	K14-1141	31		12	R	188	5	59	retest	PI 88788
	7	K14-1141					167	2	75	NR	

2016 NORTHERN REGIONAL SCN TESTS SCN SCREENING

			HG 0					HG 2.5.7				
Test	ent.	Strain	mean	cv	FI	rating		mean	cv	FI	rating	SCN Resistance source
P IV	8	K14-1153	26		10	R		172	5	54	NR	PI 88788
P IV	9	K14-1263	24		9	HR		238	5	74	NR	PI 88788
P IV	10	K14-1266	24		9	HR		161	6	50	LR	PI 88788
P IV	11	K14-1267	14		5	HR		178	20	56	LR	PI 88788
P IV	12	K14-1277	17		6	HR		202	11	63	NR	PI 88788
P IV	13	K14-1404	25		9	HR		247	16	77	NR	PI 88788
P IV	14	K14-1405	31		11	R		209	18	65	NR	PI 88788
P IV	15	LD13-3673	27		10	R		236	12	74	NR	PI 88788
P IV	16	LD13-7015	4		1	HR		80	15	25	MR	PI 88788,437654
P IV	17	LD13-7022	49		18	R		198	6	62	NR	PI 88788,437654
P IV	18	LD13-8466	45		16	R		116	9	36	MR	PI 88788,437654,468916
P IV	19	LD13-8769	5		2	HR		137	16	43	LR	PI 88788
P IV	20	SIU13-0012	62		23	R		167	23	52	LR	

2016 SCN UNIFORM TEST 00

Strain		Descriptive code	Parentage	Previous testing
1	MN0071 (00)	PTbr	Harmony x OT92-8	2
2	Henson	PTbl	ND03-5672 x Hamlin	1
3	MN0095	PGibl	M92-270029 x M93-313135	2
4	MN0208CN	WTy	MN0902CN X MN0201	2
5	M07-292111	WTgr	M01-315029 x MN1106CN	1
6	M08-359176	WTy	M02-391112 x MN1701CN	2
7	ND13-5619	P+WLTbf	M01-213045 x [Ashtabula x Sheyenne]	New
8	ND13-7727	WGy	MN03-7556 x ND06-25513	New
9	ND13-7968	PGbf	ND06-25513 x ND03-5441	New

Strain		Gen comp	SCN res source	Traits
1	MN0071 (00)	F5	none	Rps1
2	Henson	F4	none	Rps6
3	MN0095	F5	none	Rps1
4	MN0208CN	F5	PI 88788	Rps1a
5	M07-292111	F5	PI 88788	
6	M08-359176	F5	PI 88788,209332	
7	ND13-5619	F4	PI 88788	
8	ND13-7727	F4	PI 88788	Rps6
9	ND13-7968	F4	PI 88788	Rps6

Strain	IL SCN screen				MN IDC
	HG Type 0		HG Type 2.5.7		Danvers
	FI	rating	FI	rating	score
1 MN0071 (00)	60	NR	63	NR	2.3
2 Henson	73	NR	66	NR	1.5
3 MN0095	35	MR	71	NR	1.0
4 MN0208CN	11	R	57	LR	1.5
5 M07-292111	11	R	69	NR	1.3
6 M08-359176	20	R	70	NR	1.0
7 ND13-5619	79	NR	61	NR	2.0
8 ND13-7727	85	NR	78	NR	1.3
9 ND13-7968	19	R	46	LR	1.0

2016 SCN UNIFORM TEST 00

Summary

Strain		Yield								Seed				
		All		Infested		Non-infested		Maturity date	Lodging score	Height inches	quality score	weight g/100	protein @13%	oil @13%
		bu/a	rank	bu/a	rank	bu/a	rank							
Locations		4		3		1		4	4	4	3	3	3	3
1	MN0071 (00)	25.8	9	25.3	9	27.1	8	9/03	1.3	24	1.8	15.5	35.8	19.1
2	Henson	39.7	7	44.4	6	25.7	9	7	1.2	24	1.9	16.9	35.2	19.1
3	MN0095	45.5	5	50.8	5	30.2	6	7	1.1	23	1.7	13.9	35.7	18.9
4	MN0208CN	53.6	1	61.6	1	30.4	5	14	1.2	27	1.7	14.0	37.5	18.0
5	M07-292111	51.6	3	56.9	4	35.6	1	13	1.0	27	1.9	13.6	36.2	18.5
6	M08-359176	51.7	2	58.8	2	31.2	3	12	1.2	27	1.9	15.8	36.8	17.9
7	ND13-5619	39.4	8	42.4	8	30.5	4	10	1.2	26	2.0	15.1	35.3	18.1
8	ND13-7727	40.9	6	43.4	7	33.6	2	9	1.3	29	1.9	15.3	35.3	18.0
9	ND13-7968	51.0	4	58.4	3	28.8	7	9	1.3	30	1.8	14.6	34.5	19.8
Mean		44.4		49.1		30.3		11.8	1.2	26.3	1.9	15.0	35.8	18.6
LSD(.05)		4.7		5.8		5.9		1.2	0.1	1.5				
C.V. %		12.9		12.5		10.8		12.3	12.2	6.1				
Replications		12		9		3		12	12	9				

2 Year Summary

Strain		Yield								Seed				
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
Locations		8		5		3		8	8	6	6	6	6	6
1	MN0071 (00)	27.3	6	25.3	6	30.7	6	9/04	1.3	22.0	1.9	15.6	35.0	19.5
2	Henson	35.1	5	36.3	5	33.3	5	6	1.2	23.2	1.9	16.9	34.6	19.0
3	MN0208CN	45.6	1	50.9	1	36.7	3	6	1.2	22.6	1.7	13.6	35.1	19.2
4	M07-292111	43.2	2	46.3	3	38.1	2	10	1.3	26.4	1.8	14.0	36.8	18.3
5	M08-359176	42.4	3	46.4	2	35.6	4	10	1.1	25.7	1.6	13.7	36.0	18.6
6	MN0095	40.8	4	41.2	4	40.2	1	9	1.3	25.8	2.0	15.5	36.8	18.2

2016 SCN UNIFORM TEST 00

Yield (bu/a)

SCN HG Type		Gary MN I	Downer MN I	Wyndmere ND 0	Ottawa ON NI
Strain					
1	MN0071 (00)	9.2	31.3	35.4	24.7
2	Henson	18.9	59.6	47.2	26.4
3	MN0095	34.5	55.4	56.8	32.8
4	MN0208CN	79.4	59.0	53.3	30.4
5	M07-292111	62.3	48.1	60.1	34.2
6	M08-359176	61.9	56.3	57.9	30.2
7	ND13-5619	23.0	57.7	50.8	28.6
8	ND13-7727	23.5	58.1	48.8	30.6
9	ND13-7968	59.0	57.0	59.3	32.8
Average		41.3	53.6	52.2	30.1
LSD(.05)		8.4	10.9	6.5	6.0
C.V. %		10.3	11.8	7.8	4.9
Replications		3	3	3	3
Row width (in.)		30	30	30	15

Yield (rank)

SCN HG Type		Gary MN I	Downer MN I	Wyndmere ND 0	Ottawa ON NI
Strain					
1	MN0071 (00)	9	9	9	8
2	Henson	8	1	8	9
3	MN0095	5	7	4	6
4	MN0208CN	1	2	5	5
5	M07-292111	2	8	1	1
6	M08-359176	3	6	3	3
7	ND13-5619	7	4	6	4
8	ND13-7727	6	3	7	2
9	ND13-7968	4	5	2	7

2016 SCN UNIFORM TEST 00

Maturity

SCN HG Type		Gary MN I	Downer MN I	Wyndmere ND 0	Ottawa ON NI
Strain					
1	MN0071 (00)	9/2	9/9	8/29	8/31
2	Henson	7	0	10	14
3	MN0095	7	0	11	13
4	MN0208CN	7	20	14	17
5	M07-292111	14	13	14	17
6	M08-359176	14	13	14	10
7	ND13-5619	7	7	11	18
8	ND13-7727	7	7	10	18
9	ND13-7968	7	7	10	14
Planted		5/14	5/12	5/7	5/16

Lodging (score)

SCN HG Type		Gary MN I	Downer MN I	Wyndmere ND 0	Ottawa ON NI
Strain					
1	MN0071 (00)	1.0	1.0	1.0	2.1
2	Henson	1.0	1.0	1.0	1.6
3	MN0095	1.0	1.0	1.0	1.3
4	MN0208CN	1.0	1.0	1.0	1.7
5	M07-292111	1.0	1.0	1.0	1.0
6	M08-359176	1.0	1.0	1.0	2.0
7	ND13-5619	1.0	1.0	1.0	1.7
8	ND13-7727	1.0	1.0	1.0	2.0
9	ND13-7968	1.0	1.0	1.0	2.0

2016 SCN UNIFORM TEST 00

Height (inches)

SCN HG Type		Gary MN I	Downer MN I	Wyndmere ND 0	Ottawa ON NI
Strain					
1	MN0071 (00)	16	22		31
2	Henson	17	26		31
3	MN0095	17	23		28
4	MN0208CN	23	24		36
5	M07-292111	21	27		31
6	M08-359176	20	25		34
7	ND13-5619	19	27		31
8	ND13-7727	20	32		35
9	ND13-7968	24	31		35

Seed Quality (score)

SCN HG Type		Gary MN I	Downer MN I	Wyndmere ND 0	Ottawa ON NI
Strain					
1	MN0071 (00)	1.3	2.0		2.2
2	Henson	1.3	2.0		2.3
3	MN0095	1.3	2.0		1.8
4	MN0208CN	1.0	2.0		2.2
5	M07-292111	1.3	2.0		2.4
6	M08-359176	1.3	2.0		2.5
7	ND13-5619	1.7	2.0		2.4
8	ND13-7727	1.3	2.3		2.0
9	ND13-7968	1.0	2.3		2.0

2016 SCN UNIFORM TEST 00

Seed Weight (g/100)

SCN HG Type		Gary MN I	Downer MN I	Wyndmere ND 0	Ottawa ON NI
Strain					
1	MN0071 (00)	13.7	16.2		16.6
2	Henson	15.9	16.8		18.1
3	MN0095	12.0	14.2		15.5
4	MN0208CN	12.0	13.5		16.5
5	M07-292111	11.4	12.7		16.8
6	M08-359176	13.5	17.1		16.7
7	ND13-5619	13.4	14.8		17.0
8	ND13-7727	13.8	14.8		17.3
9	ND13-7968	12.4	15.3		16.0

Protein (%)

SCN HG Type		Gary MN I	Downer MN I	Wyndmere ND 0	Ottawa ON NI
Strain					
1	MN0071 (00)	35.1	36.8		35.4
2	Henson	35.9	34.6		35.1
3	MN0095	36.2	35.0		35.9
4	MN0208CN	37.1	36.4		39.0
5	M07-292111	36.3	35.5		36.9
6	M08-359176	36.4	36.9		37.0
7	ND13-5619	36.4	33.8		35.5
8	ND13-7727	36.1	34.9		35.0
9	ND13-7968	35.2	34.5		33.7

Oil (%)

SCN HG Type		Gary MN I	Downer MN I	Wyndmere ND 0	Ottawa ON NI
Strain					
1	MN0071 (00)	18.8	18.9		19.5
2	Henson	18.6	19.2		19.4
3	MN0095	18.7	18.8		19.2
4	MN0208CN	17.8	18.0		18.2
5	M07-292111	18.9	18.5		18.0
6	M08-359176	17.7	17.6		18.4
7	ND13-5619	17.4	18.0		19.0
8	ND13-7727	17.6	17.3		19.3
9	ND13-7968	19.3	19.7		20.3

2016 SCN UNIFORM TEST 0

	Strain	Descriptive code	Parentage	Previous testing
1	Sheyenne	PGy	Pioneer 9071 x A96-492041	8
2	MN1410	WGbf	Unknown	11
3	MN0095	PGibl	M92-270029 x M93-313135	6
4	MN0606CN	WTy	MN0901 x MN0902CN	11
5	M08-151025	WGy	M00-116161 x M99-286047	2
6	M08-354011	P+WTy	ND03-7566 x MN1413CN	1
7	M08-357102	P+WT+Gy	M02-383122 x IA1022	1
8	M08-359053	P+WT+Gy	M02-391112 x MN1710CN	1
9	M08-362045	WLtbl+y	MN0606CN x U03-100612	1
10	M09-269045	PTy	MN0908CN x LD02-4485	15 SCN P 0
11	M09-274025	PGbf	MN0208CN x LD02-4485	15 SCN P 0
12	M09-274049	PTbr	MN0208CN x LD02-4485	15 SCN P I
13	ND09-5798	PTy	ND03-7267 x Sheyenne	15 SCN P 0
14	ND10-2763	WGy	Sheyenne x ND03-5441	2
15	ND10-3464	WGbf	ND03-7566 x [ND03-5441 x LaMoure]	2

	Strain	Gen comp	SCN res source	Traits
1	Sheyenne	F4	none	Rsp1-c
2	MN1410	F5	none	
3	MN0095	F5	none	Rps1
4	MN0606CN	F4	PI 88788	
5	M08-151025	F5	PI 88788	
6	M08-354011	F5	PI 88788	
7	M08-357102	F5	PI 88788	
8	M08-359053	F5	PI 88788,209332	
9	M08-362045	F5	PI 88788, Peking	
10	M09-269045	F5	PI 88788,209332	
11	M09-274025	F5	PI 88788	
12	M09-274049	F5	PI 88788,209332	
13	ND09-5798	F4	PI 88788	Rps6
14	ND10-2763	F4	PI 88788	Rps6
15	ND10-3464	F4	PI 88788	Rps6

2016 SCN UNIFORM TEST 0

	IL SCN screen				MN IDC
	HG Type 0		HG Type 2.5.7		Danvers
Strain	FI	rating	FI	rating	score
1 Sheyenne	83	NR	80	NR	3.5
2 MN1410	54	L	69	NR	2.8
3 MN0095	35	MR	71	NR	2.5
4 MN0606CN	8	HR	73	NR	4.5
5 M08-151025	5	HR	83	NR	3.8
6 M08-354011	13	R	62	NR	3.3
7 M08-357102	30	**	69	NR	3.3
8 M08-359053	47	LR	64	NR	3.8
9 M08-362045	7	HR	52	LR	4.3
10 M09-269045	10	R	70	NR	3.8
11 M09-274025	92	NR	81	NR	3.5
12 M09-274049	66	NR	70	NR	4.3
13 ND09-5798	75	NR	69	NR	4.0
14 ND10-2763	75	NR	69	NR	3.5
15 ND10-3464	9	HR	63	NR	2.8

**rep data too variable to rate

Ave. 3.6

LSD 1.3

2016 SCN UNIFORM TEST 0 Summary

Summary														
		Yield						Seed						
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
Strain		bu/a	rank	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
Locations		7		4		3		7	7	6	6	6	6	6
1	Sheyenne	44.1	9	41.2	10	48.0	4	9/16	1.4	34	2.2	17.7	35.6	19.1
2	MN1410	46.2	5	41.2	10	52.9	1	7	1.4	34	1.7	19.7	37.5	18.2
3	MN0095	35.6	14	33.0	14	39.1	15	-6	1.4	27	1.7	14.0	35.7	18.9
4	MN0606CN	46.1	6	49.1	4	42.1	11	3	1.6	32	1.7	16.8	36.4	18.3
5	M08-151025	46.7	4	46.0	6	47.5	5	5	1.4	32	1.6	17.4	36.2	18.1
6	M08-354011	45.5	8	44.7	7	46.6	7	2	1.5	32	1.6	16.6	36.3	18.6
7	M08-357102	48.6	3	50.4	3	46.2	9	3	1.6	34	1.6	18.6	36.7	18.5
8	M08-359053	44.0	10	46.6	5	40.5	13	2	1.7	35	2.6	17.8	36.6	18.3
9	M08-362045	50.2	2	52.2	1	47.4	6	4	1.5	33	2.1	17.1	36.7	18.6
10	M09-269045	50.6	1	51.1	2	49.9	2	2	1.4	32	1.6	16.1	35.9	18.4
11	M09-274025	34.7	15	31.3	15	39.2	14	-1	1.3	29	1.8	19.0	37.8	18.3
12	M09-274049	43.4	11	41.0	13	46.5	8	2	1.3	31	1.3	17.5	37.0	17.6
13	ND09-5798	43.2	12	41.2	10	45.8	10	2	1.1	29	1.7	18.3	35.2	19.4
14	ND10-2763	45.6	7	43.3	8	48.6	3	-2	1.3	30	2.1	15.4	35.3	19.4
15	ND10-3464	42.3	13	43.2	9	41.2	12	-1	1.3	29	2.0	16.7	37.7	18.1
Mean		44.4		43.7		45.4		17.6	1.4	31.6	1.8	17.2	36.4	18.5
LSD(.05)		3.9		6.1		4.1		1.3	0.2	1.4				
C.V. %		14.2		17.1		9.6		12.3	20.1	6.9				
Replications		21		12		9		19	19	16				

2 Year Summary

2 Year Summary														
Strain		Yield								Seed				
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank							
Locations		14		8		6		14	14	12	12	12	12	12
1	Sheyenne	43.5	7	41.9	8	45.7	2	9/17	1.5	33	2.1	17.1	35.5	18.6
2	MN1410	45.3	3	41.1	9	50.9	1	7	1.5	35	1.7	18.6	36.7	18.3
3	MN0095	35.5	11	33.8	11	37.9	11	-5	1.5	27	1.8	13.7	36.0	18.8
4	MN0606CN	44.1	5	45.4	3	42.5	8	3	1.6	31	1.8	16.2	36.3	18.2
5	M08-151025	43.6	6	43.7	6	43.4	7	4	1.6	32	1.7	16.6	36.5	18.0
6	M08-354011	44.2	4	43.8	5	44.8	3	3	1.7	32	1.6	15.8	36.1	18.7
7	M08-357102	45.8	2	46.7	2	44.5	4	3	1.6	32	1.7	17.7	36.6	18.3
8	M08-359053	42.2	8	44.0	4	39.7	9	1	1.7	33	2.3	17.2	36.8	18.4
9	M08-362045	46.7	1	48.5	1	44.2	5	3	1.7	30	2.0	16.3	36.8	18.6
14	ND10-2763	41.6	9	39.8	10	44.0	6	-1	1.4	30	2.1	15.8	35.1	19.0
15	ND10-3464	41.0	10	42.2	7	39.5	10	0	1.5	29	1.9	16.2	37.5	18.0

2016 SCN UNIFORM TEST 0

Yield (bu/a)

		Yield (bu/a)						
		Davners MN	Fairfax MN	Rosemount MN	Wyndmere ND	Ottawa ON	St. Pauls ON	Woodstock ON
SCN HG Type		2.5.7	1.2.5.7	2.5.7	0	NI	NI	NI
Strain								
1	Sheyenne	51.5	28.3	36.9	53.7	48.7	48.1	47.3
2	MN1410	36.8	28.6	34.8	64.6	57.0	48.7	53.1
3	MN0095	42.5	12.0	26.9	49.8	35.8	39.7	41.7
4	MN0606CN	51.8	43.9	40.1	65.3	45.2	37.3	43.7
5	M08-151025	46.8	33.6	36.4	67.4	47.6	44.4	50.5
6	M08-354011	52.5	36.4	33.0	56.3	46.2	44.7	48.9
7	M08-357102	57.5	42.9	43.2	57.9	49.2	44.1	45.4
8	M08-359053	57.9	33.9	34.4	59.8	43.1	42.6	37.2
9	M08-362045	58.7	43.3	43.2	63.2	52.9	45.8	43.6
10	M09-269045	56.8	38.5	42.5	66.5	51.3	48.4	50.1
11	M09-274025	31.0	18.4	32.1	35.6	39.8	39.1	39.9
12	M09-274049	46.9	32.3	38.4	53.1	46.7	50.3	42.4
13	ND09-5798	54.9	29.7	34.5	46.3	49.2	47.6	40.5
14	ND10-2763	55.6	24.2	35.8	57.6	46.2	49.7	49.8
15	ND10-3464	51.1	34.9	29.6	56.9	43.2	32.9	47.5
Average		50.2	32.1	36.1	59.6	46.8	44.2	45.4
LSD(.05)		10.2	7.3	10.2	10.1	5.6	9.8	6.8
C.V. %		12.1	13.1	16.5	11.0	5.3	13.2	9.0
Replications		3	3	3	3	3	3	3
Row width (in.)		30	30	30	30	15	14	14

2016 SCN UNIFORM TEST 0

Yield (rank)

		Yield (rank)						
		Davners MN	Fairfax MN	Rosemount MN	Wyndmere ND	Ottawa ON	St. Pauls ON	Woodstock ON
SCN HG Type		2.5.7	1.2.5.7	2.5.7	0	NI	NI	NI
Strain								
1	Sheyenne	9	12	6	11	6	5	7
2	MN1410	14	11	9	4	1	3	1
3	MN0095	13	15	15	13	15	12	12
4	MN0606CN	8	1	4	3	11	14	9
5	M08-151025	12	8	7	1	7	9	2
6	M08-354011	7	5	12	10	10	8	5
7	M08-357102	3	3	2	7	5	10	8
8	M08-359053	2	7	11	6	12	11	15
9	M08-362045	1	2	1	5	2	7	10
10	M09-269045	4	4	3	2	3	4	3
11	M09-274025	15	14	13	15	14	13	14
12	M09-274049	11	9	5	12	8	1	11
13	ND09-5798	6	10	10	14	4	6	13
14	ND10-2763	5	13	8	8	9	2	4
15	ND10-3464	10	6	14	9	13	15	6

2016 SCN UNIFORMTEST 0

Maturity

		Davners MN 2.5.7	Fairfax MN 1.2.5.7	Rosemount MN 2.5.7	Wyndmere ND 0	Ottawa ON NI	St. Pauls ON NI	Woodstock ON NI
SCN HG Type								
Strain								
1	Sheyenne	9/10	9/10	9/12	9/12	9/25	9/22	9/22
2	MN1410	12	6	9	12	9	8	5
3	MN0095	-1	0	-18	-6	-12	-7	-2
4	MN0606CN	5	7	3	5	0	2	-1
5	M08-151025	3	5	5	8	6	3	3
6	M08-354011	5	6	5	3	-1	-1	0
7	M08-357102	5	8	5	1	-1	0	2
8	M08-359053	7	8	-3	-1	-3	2	0
9	M08-362045	6	6	6	5	3	0	0
10	M09-269045	3	7	5	3	0	-2	0
11	M09-274025	-1	0	0	-2	-2	-2	-3
12	M09-274049	1	6	3	5	2	-1	0
13	ND09-5798	1	4	4	2	0	0	0
14	ND10-2763	0	1	-1	-2	-2	-7	-1
15	ND10-3464	0	4	-1	-4	-2	-1	-2
Planted		5/16	5/26	5/31	5/7	5/16	5/20	5/26

2016 SCN UNIFORMTEST 0

Lodging (score)

		Davners	Fairfax	Rosemount	Wyndmere	Ottawa	St. Pauls	Woodstock
		MN	MN	MN	ND	ON	ON	ON
		2.5.7	1.2.5.7	2.5.7	0	NI	NI	NI
SCN HG Type								
Strain								
1	Sheyenne	2.0	1.0	2.3	1.0	2.0	1.0	1.2
2	MN1410	1.0	1.0	2.7	1.0	2.0	1.0	1.3
3	MN0095	1.0	1.0	2.3	1.0	1.7	1.0	1.7
4	MN0606CN	1.0	1.0	3.7	1.0	2.0	1.0	1.2
5	M08-151025	1.0	1.0	2.7	1.0	2.0	1.0	1.3
6	M08-354011	1.0	1.0	3.3	1.0	2.0	1.0	1.2
7	M08-357102	1.0	1.0	3.3	1.0	2.0	1.0	1.5
8	M08-359053	1.0	1.0	3.0	1.0	3.0	1.0	1.5
9	M08-362045	1.0	1.0	3.3	1.0	2.0	1.0	1.3
10	M09-269045	1.0	1.0	3.0	1.0	2.0	1.0	1.0
11	M09-274025	1.0	1.0	2.0	1.0	2.0	1.0	1.2
12	M09-274049	1.0	1.0	2.0	1.0	2.0	1.0	1.0
13	ND09-5798	1.0	1.0	1.7	1.0	1.0	1.0	1.0
14	ND10-2763	1.0	1.0	2.3	1.0	2.0	1.0	1.0
15	ND10-3464	2.0	1.0	2.3	1.0	1.3	1.0	1.0

Height (inches)

		Davners	Fairfax	Rosemount	Wyndmere	Ottawa	St. Pauls	Woodstock
		MN	MN	MN	ND	ON	ON	ON
		2.5.7	1.2.5.7	2.5.7	0	NI	NI	NI
SCN HG Type								
Strain								
1	Sheyenne	38	29	31		34	39	33
2	MN1410	42	31	34		35	31	35
3	MN0095	35	20	24		30	30	26
4	MN0606CN	33	27	33		33	29	31
5	M08-151025	37	33	31		32	33	29
6	M08-354011	36	31	32		32	31	31
7	M08-357102	39	34	33		33	33	32
8	M08-359053	37	34	32		39	37	30
9	M08-362045	40	29	32		34	33	32
10	M09-269045	39	31	32		30	29	29
11	M09-274025	33	24	27		33	32	28
12	M09-274049	36	28	30		30	30	31
13	ND09-5798	34	29	26		28	31	25
14	ND10-2763	33	27	30		36	29	29
15	ND10-3464	32	28	28		30	28	28

2016 SCN UNIFORMTEST 0

Seed Quality (score)

		Davners	Fairfax	Rosemount	Wyndmere	Ottawa	St. Pauls	Woodstock
		MN	MN	MN	ND	ON	ON	ON
		2.5.7	1.2.5.7	2.5.7	0	NI	NI	NI
SCN HG Type								
Strain								
1	Sheyenne	1.0	2.7	2.7		2.0	3.0	2.0
2	MN1410	1.0	1.7	2.3		2.0	1.5	1.5
3	MN0095	1.0	1.7	2.3		2.0	1.5	1.5
4	MN0606CN	1.0	2.0	1.7		2.0	1.5	2.0
5	M08-151025	1.0	1.7	1.7		2.3	1.5	1.5
6	M08-354011	1.0	1.3	2.0		2.0	1.5	1.5
7	M08-357102	1.0	1.3	2.0		2.0	1.5	2.0
8	M08-359053	1.0	2.0	2.3		3.0	4.0	3.0
9	M08-362045	1.0	2.0	1.7		2.3	3.0	2.5
10	M09-269045	1.0	1.7	1.7		2.0	1.5	2.0
11	M09-274025	1.0	1.7	2.0		2.0	2.5	1.5
12	M09-274049	1.0	1.0	1.0		2.0	1.5	1.5
13	ND09-5798	1.0	1.7	2.0		2.7	1.5	1.5
14	ND10-2763	1.0	2.7	2.7		2.0	2.0	2.5
15	ND10-3464	1.0	2.0	2.3		2.3	2.5	2.0

Seed Weight (g/100)

		Davners	Fairfax	Rosemount	Wyndmere	Ottawa	St. Pauls	Woodstock
		MN	MN	MN	ND	ON	ON	ON
		2.5.7	1.2.5.7	2.5.7	0	NI	NI	NI
SCN HG Type								
Strain								
1	Sheyenne	16.2	15.6	13.6		20.7	21.1	18.8
2	MN1410	15.7	18.1	14.4		23.8	23.9	22.1
3	MN0095	13.0	11.2	10.6		16.8	17.2	15.1
4	MN0606CN	14.3	15.3	13.5		19.8	19.6	18.2
5	M08-151025	15.2	16.0	14.3		20.4	19.2	19.4
6	M08-354011	13.8	14.3	13.1		20.7	18.8	18.6
7	M08-357102	16.6	15.8	15.1		22.5	20.3	21.2
8	M08-359053	15.0	15.5	13.4		21.2	20.8	20.7
9	M08-362045	14.7	15.0	13.4		21.1	19.4	18.7
10	M09-269045	14.2	14.2	13.6		19.2	18.2	17.1
11	M09-274025	16.3	16.7	14.6		21.2	23.1	21.9
12	M09-274049	15.3	16.8	14.0		19.8	19.6	19.7
13	ND09-5798	15.6	15.6	14.3		22.1	21.5	21.0
14	ND10-2763	13.0	12.8	12.0		19.9	17.6	17.2
15	ND10-3464	13.4	13.6	12.6		20.6	20.0	20.0

2016 SCN UNIFORMTEST 0

Protein (%)

		Davners MN 2.5.7	Fairfax MN 1.2.5.7	Rosemount MN 2.5.7	Wyndmere ND 0	Ottawa ON NI	St. Pauls ON NI	Woodstock ON NI
SCN HG Type								
Strain								
1	Sheyenne	35.7	36.0	36.3		34.6	35.8	35.1
2	MN1410	35.5	36.2	38.2		38.1	38.8	38.3
3	MN0095	35.9	34.6	35.6		35.0	37.4	35.7
4	MN0606CN	35.7	35.8	36.1		35.8	38.6	36.1
5	M08-151025	35.0	35.5	37.1		36.9	37.0	35.6
6	M08-354011	35.4	33.8	36.6		37.5	38.2	36.6
7	M08-357102	35.6	35.4	37.1		37.3	37.8	37.3
8	M08-359053	35.8	35.0	36.7		37.7	38.0	36.5
9	M08-362045	35.1	35.7	37.0		37.4	38.1	36.9
10	M09-269045	34.8	34.7	37.5		35.4	37.4	35.3
11	M09-274025	35.8	37.8	37.8		39.2	38.8	37.2
12	M09-274049	35.6	35.7	37.2		38.5	37.9	36.8
13	ND09-5798	33.7	34.3	35.1		35.4	36.6	35.8
14	ND10-2763	34.8	33.8	36.2		35.5	36.5	35.1
15	ND10-3464	35.4	35.0	38.1		39.9	40.2	37.7

Oil (%)

		Davners MN 2.5.7	Fairfax MN 1.2.5.7	Rosemount MN 2.5.7	Wyndmere ND 0	Ottawa ON NI	St. Pauls ON NI	Woodstock ON NI
SCN HG Type								
Strain								
1	Sheyenne	18.6	20.5	19.3		19.0	18.3	18.6
2	MN1410	18.5	18.1	18.0		18.7	17.7	18.0
3	MN0095	18.2	19.4	18.1		20.0	18.3	19.3
4	MN0606CN	18.6	18.6	17.7		18.5	17.6	18.6
5	M08-151025	18.6	20.1	17.5		16.5	17.7	18.4
6	M08-354011	18.6	19.4	18.0		18.9	17.9	18.6
7	M08-357102	18.4	20.0	18.7		18.2	17.7	18.0
8	M08-359053	17.7	19.9	18.0		18.4	17.7	18.3
9	M08-362045	19.3	19.6	17.8		18.5	17.7	18.4
10	M09-269045	18.5	18.3	17.8		19.0	17.9	18.6
11	M09-274025	19.1	19.1	18.4		17.5	17.5	18.2
12	M09-274049	17.8	18.5	16.6		17.0	17.7	18.0
13	ND09-5798	20.3	20.6	19.4		18.7	18.4	19.1
14	ND10-2763	19.4	21.0	20.3		18.8	18.4	18.8
15	ND10-3464	18.7	19.9	18.0		17.2	17.0	17.8

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2016 SCN PRELIMINARY TEST 0

	Strain	Descriptive code	Parentage	Gen. Comp.	SCN res source	Traits
1	Sheyenne	PGy	Pioneer 9071 x A96-492041	F4	none	Rsp1-c
2	MN1410	WGbf	Unknown	F5	none	
3	MN0095	PGibl	M92-270029 x M93-313135	F5	none	Rps1
4	MN0606CN	WTy	MN0901 x MN0902CN	F4	PI 88788	
5	M10-181003	PTbl	AR07-175064 x ND04-11421	F5	PI 88788	
6	M10-181020	PTlbr	AR07-175064 x ND04-11421	F5	PI 88788	
7	M10-181025	PGgr	AR07-175064 x ND04-11421	F5	PI 88788	
8	M10-181060	PT+Ltbl	AR07-175064 x ND04-11421	F5	PI 88788	
9	M10-181065	PTy	AR07-175064 x ND04-11421	F5	PI 88788	
10	M10-181070	PTbr	AR07-175064 x ND04-11421	F5	PI 88788	
11	M10-186021	PTbl	M02-385091 x LD02-4485	F5	PI 88788	
12	M10-187011	PTbl	M04-336008 x M03-914036	F5	PI 88788	
13	M10-187121	PTbl	M04-336008 x M03-914036	F5	PI 88788	
14	M10-221048	PTbl	MN0606CN x LD05-16638	F5	PI 88788	APHID
15	M10-221067	WTgr	MN0606CN x LD05-16638	F5	PI 88788	APHID
16	M10-221090	PTbr	MN0606CN x LD05-16638	F5	PI 88788	APHID
17	M10-221099	WTbr	MN0606CN x LD05-16638	F5	PI 88788	APHID
18	M10-249041	PGbf	MN1410 x PI561389B	F5	PI 561389B	PHY
19	M11-108078	P+WGy	LD05-1540 x M04-254003	F5	PI 88788	WILT
20	MSC10-561019	PGibl	MN0095 x PI629013	F5	PI 629013	IDC
21	ND12-13257	PGy	ND04-11730 x Ashtabula	F4	PI 88788	
22	ND13-4453	PGy	SD487 x [ProSoy x ND03-5441]	F4	PI 88788	
23	ND13-5752	PGbf	Sheyenne x [ND03-5441 x Sheyenne]	F4	PI 88788	
24	ND13-7728	P+WGibl/bf	ND03-7556 x ND06-25513	F4	PI 88788	Rps6
25	ND13-7810	PGibl	ND03-7556 x ND06-25513	F4	PI 88788	Rps6
26	ND13-7831	P+WGibl/bf	ND03-7556 x ND06-25513	F4	PI 88788	Rps6
27	ND13-7974	WGbf	ND06-25513 x ND03-5441	F4	PI 88788	Rps6
28	ND13-8443	P+WGy	Asthabula x ND03-5441	F4	PI 88788	Rps6
29	ND13-8522	PGy	Sheyenne x ND03-5441	F4	PI 88788	
30	ND13-8691	PGbf	ND06-25513 x [Ashtabula x Sheyenne]	F4	PI 88788	

2016 SCN PRELIMINARY TEST 0

	IL SCN screen				MN IDC
	HG Type 0		HG Type 2.5.7		Danvers
Strain	FI	rating	FI	rating	score
1 Sheyenne	83	NR	80	NR	1.8
2 MN1410	54	L	69	NR	3.3
3 MN0095	35	MR	71	NR	1.5
4 MN0606CN	8	HR	73	NR	3.0
5 M10-181003	9	HR	72	NR	3.3
6 M10-181020	15	R	62	NR	2.0
7 M10-181025	11	R	68	NR	1.8
8 M10-181060	17	R	60	NR	3.0
9 M10-181065	8	HR	60	NR	3.8
10 M10-181070	12	R	82	NR	3.8
11 M10-186021	3	HR	55	LR	2.3
12 M10-187011	3	HR	65	LR	3.5
13 M10-187121	2	HR	48	LR	3.5
14 M10-221048	16	R	61	NR	2.5
15 M10-221067	85	NR	80	NR	1.5
16 M10-221090	93	NR	70	NR	1.5
17 M10-221099	30	MR	69	NR	3.3
18 M10-249041	68	NR	69	NR	1.8
19 M11-108078	36	MR	77	NR	2.8
20 MSC10-561019	47	LR	67	NR	3.5
21 ND12-13257	82	NR	66	NR	1.5
22 ND13-4453	60	NR	67	NR	2.5
23 ND13-5752	96	NR	78	NR	4.0
24 ND13-7728	74	NR	64	NR	1.3
25 ND13-7810	79	NR	67	NR	4.3
26 ND13-7831	86	NR	74	NR	2.8
27 ND13-7974	30	MR	74	NR	3.3
28 ND13-8443	80	NR	76	NR	4.0
29 ND13-8522	71	NR	76	NR	4.3
30 ND13-8691	85	NR	47	LR	3.3

**rep data too variable to rate

Ave. 2.8

LSD 1.2

2016 SCN PRELIMINARY TEST 0

Summary

Strain		Yield								Seed				
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
Locations		5		4		1		4	4	3	4	4	4	4
1	Sheyenne	37.2	20	33.9	23	50.3	1	9/13	1.3	29	2.6	16.1	34.8	19.1
2	MN1410	45.6	4	45.0	6	48.9	5	7	1.4	34	1.5	18.1	36.2	18.4
3	MN0095	30.4	27	30.4	27	34.9	28	-4	1.5	26	1.9	13.9	35.5	19.3
4	MN0606CN	46.4	3	48.4	3	40.4	21	4	1.6	33	1.8	16.0	35.9	18.5
5	M10-181003	49.3	1	52.1	1	42.8	18	2	1.3	29	1.5	18.5	35.8	18.3
6	M10-181020	42.7	8	42.5	7	48.3	7	1	1.3	29	1.9	19.2	36.1	19.3
7	M10-181025	40.8	11	40.0	12	45.4	8	0	1.3	27	1.9	18.4	36.7	19.0
8	M10-181060	43.6	7	42.3	8	50.3	1	4	1.6	33	1.4	16.7	36.3	18.2
9	M10-181065	44.6	6	45.4	5	41.3	19	2	1.3	28	1.5	19.4	36.1	18.6
10	M10-181070	45.6	4	46.0	4	45.1	10	4	1.5	32	1.6	19.5	36.5	18.8
11	M10-186021	46.8	2	49.0	2	38.8	27	3	1.5	29	1.4	16.4	35.1	18.9
12	M10-187011	41.2	10	40.4	11	44.9	12	2	1.5	32	1.8	15.0	34.8	19.2
13	M10-187121	37.3	18	37.3	17	40.6	20	3	1.4	29	2.0	17.6	35.7	18.8
14	M10-221048	38.4	16	38.8	14	39.0	25	2	1.5	28	1.9	17.6	36.7	19.2
15	M10-221067	38.6	15	38.2	15	45.0	11	4	1.4	28	1.6	18.9	36.7	18.9
16	M10-221090	32.1	26	30.7	26	38.7	26	1	1.5	28	2.6	17.6	35.2	18.8
17	M10-221099	36.8	21	36.5	19	42.9	17	1	1.6	30	1.9	17.2	37.1	18.5
18	M10-249041	37.3	18	36.1	20	43.9	13	2	1.5	32	2.0	17.8	36.4	18.6
19	M11-108078	37.5	17	37.0	18	43.0	15	3	1.2	26	2.5	17.5	35.7	18.9
20	MSC10-561019	41.6	9	41.0	10	45.2	9	2	1.6	29	2.3	15.3	35.8	18.7
21	ND12-13257	27.0	30	24.6	30	34.9	28	-7	1.1	23	2.0	14.5	33.9	20.0
22	ND13-4453	30.2	28	28.3	28	40.1	23	-3	1.6	28	2.4	16.4	36.2	18.2
23	ND13-5752	40.5	12	38.9	13	49.4	4	6	1.4	36	2.4	17.1	34.4	20.0
24	ND13-7728	30.2	28	26.6	29	43.3	14	-2	1.3	29	2.6	14.7	35.4	18.9
25	ND13-7810	36.4	22	33.4	24	50.1	3	-1	1.5	30	2.3	13.6	33.8	19.4
26	ND13-7831	35.1	23	34.3	22	40.3	22	-2	1.2	27	2.1	14.8	35.5	19.3
27	ND13-7974	34.4	24	35.6	21	33.7	30	-1	1.5	27	2.0	14.0	35.4	20.1
28	ND13-8443	32.6	25	31.3	25	39.7	24	1	1.2	30	1.8	15.7	35.2	18.7
29	ND13-8522	40.4	13	41.3	9	43.1	16	3	1.4	30	2.4	16.1	35.4	18.6
30	ND13-8691	39.8	14	37.6	16	48.4	6	4	1.3	32	1.9	16.2	35.6	18.9
Mean		38.7		38.1		43.1		14.3	1.4	29.5	2.0	16.7	35.7	18.9
LSD(.05)		5.3		6.2		7.2		1.6	0.2	2.2				
C.V. %		18.9		20.1		8.2		15.6	22.7	7.5				
Replications		11		9		2		9	9	6				

2016 SCN PRELIMINARY TEST 0

		Yield (bu/a)				
		Davners MN 2.5.7	Fairfax MN 1.2.5.7	Rosemount MN 2.5.7	Wyndmere ND 0	Woodstock ON NI
SCN HG Type						
Strain						
1	Sheyenne	25.8	27.6	34.5	55.7	50.3
2	MN1410	55.3	31.3	35.4	63.2	48.9
3	MN0095	31.9	17.2	26.5	49.6	34.9
4	MN0606CN	46.6	41.9	40.1	69.0	40.4
5	M10-181003	56.2	47.2	43.6	65.2	42.8
6	M10-181020	43.0	37.8	34.1	58.9	48.3
7	M10-181025	47.4	43.3	34.4	62.6	45.4
8	M10-181060	38.0	40.1	29.6	65.7	50.3
9	M10-181065	39.9	40.0	54.0	64.3	41.3
10	M10-181070	49.6	37.3	38.4	63.1	45.1
11	M10-186021	46.0	52.3	38.6	63.0	38.8
12	M10-187011	41.4	32.7	40.4	62.0	44.9
13	M10-187121	29.8	35.8	32.5	54.7	40.6
14	M10-221048	31.9	36.6	32.1	58.8	39.0
15	M10-221067	38.6	39.8	33.8	51.0	45.0
16	M10-221090	33.0	15.6	21.7	56.7	38.7
17	M10-221099	27.2	30.7	33.3	59.0	42.9
18	M10-249041	30.7	26.8	36.9	54.0	43.9
19	M11-108078	40.3	35.8	23.9	65.2	43.0
20	MSC10-561019	39.7	30.2	37.4	60.5	45.2
21	ND12-13257	28.0	4.6	25.4	44.6	34.9
22	ND13-4453	28.5	19.8	19.1	50.4	40.1
23	ND13-5752	40.8	31.7	32.0	55.2	49.4
24	ND13-7728	18.5	19.5	28.2	47.5	43.3
25	ND13-7810	45.3	17.4	36.6	57.5	50.1
26	ND13-7831	33.6	23.2	32.4	51.7	40.3
27	ND13-7974	27.8	25.5	32.1	61.5	33.7
28	ND13-8443	27.1	24.3	33.0	54.3	39.7
29	ND13-8522	28.3	42.5	38.1	60.2	43.1
30	ND13-8691	33.2	32.8	37.2	62.8	48.4
Average		36.8	31.4	33.8	58.3	43.1
LSD(.05)		26.0	9.8	11.8	6.8	7.2
C.V. %		31.9	14.6	16.0	7.2	8.2
Replications		2	2	2	3	2
Row width (in.)		30	30	30	30	14

2016 SCN PRELIMINARY TEST 0

Yield (rank)

		Yield (rank)				
SCN HG Type	Strain	Davners	Fairfax	Rosemount	Wyndmere	Woodstock
		MN 2.5.7	MN 1.2.5.7	MN 2.5.7	ND 0	ON NI
	1	29	20	13	20	1
	2	2	17	12	6	5
	3	20	28	26	28	28
	4	5	5	4	1	21
	5	1	2	2	4	18
	6	8	9	15	16	7
	7	4	3	14	10	8
	8	15	6	24	2	1
	9	12	7	1	5	19
	10	3	10	6	7	10
	11	6	1	5	8	27
	12	9	15	3	11	12
	13	22	13	19	22	20
	14	19	11	21	17	25
	15	14	8	16	26	11
	16	18	29	29	19	26
	17	27	18	17	15	17
	18	21	21	10	24	13
	19	11	12	28	3	15
	20	13	19	8	13	9
	21	25	30	27	30	28
	22	23	25	30	27	23
	23	10	16	23	21	4
	24	30	26	25	29	14
	25	7	27	11	18	3
	26	16	24	20	25	22
	27	26	22	22	12	30
	28	28	23	18	23	24
	29	24	4	7	14	16
	30	17	14	9	9	6

2016 SCN PRELIMINARY TEST 0

Maturity

		Davners MN 2.5.7	Fairfax MN 1.2.5.7	Rosemount MN 2.5.7	Wyndmere ND 0	Woodstock ON NI
SCN HG Type						
Strain						
1	Sheyenne	9/8	9/10	9/12	9/14	9/21
2	MN1410	8	4	9	10	8
3	MN0095	0	-2	-12	-9	-11
4	MN0606CN	6	6	3	6	-1
5	M10-181003	2	4	3	2	-2
6	M10-181020	2	4	3	0	-1
7	M10-181025	4	6	0	-2	-4
8	M10-181060	4	7	6	4	0
9	M10-181065	2	6	3	2	-3
10	M10-181070	4	6	6	4	-2
11	M10-186021	2	6	9	2	-1
12	M10-187011	4	8	-2	0	-2
13	M10-187121	2	6	3	5	1
14	M10-221048	2	6	3	3	-3
15	M10-221067	4	8	6	3	0
16	M10-221090	2	4	3	1	-4
17	M10-221099	2	6	3	-2	-2
18	M10-249041	0	-2	6	7	0
19	M11-108078	4	8	2	2	3
20	MSC10-561019	6	0	2	4	0
21	ND12-13257	0	-2	-9	-10	-14
22	ND13-4453	0	-2	-6	-3	-3
23	ND13-5752	6	4	8	10	3
24	ND13-7728	0	0	-2	-6	-5
25	ND13-7810	0	0	0	-1	-1
26	ND13-7831	-2	0	-2	-5	0
27	ND13-7974	2	2	-2	-3	-4
28	ND13-8443	0	2	5	0	-4
29	ND13-8522	4	0	6	4	2
30	ND13-8691	4	0	8	7	-1
Planted		5/16	5/26	5/31	5/7	5/26

2016 SCN PRELIMINARY TEST 0

Lodging (score)

		Davners	Fairfax	Rosemount	Wyndmere	Woodstock
		MN	MN	MN	ND	ON
		2.5.7	1.2.5.7	2.5.7	0	NI
SCN HG Type						
Strain						
1	Sheyenne	1.0	1.0	2.5	1.0	1.0
2	MN1410	1.0	1.0	3.0	1.0	1.0
3	MN0095	1.0	1.0	3.0	1.0	1.8
4	MN0606CN	1.0	1.0	3.5	1.0	1.5
5	M10-181003	1.0	1.0	2.5	1.0	1.0
6	M10-181020	1.0	1.0	2.5	1.0	1.3
7	M10-181025	1.0	1.0	2.5	1.0	1.3
8	M10-181060	2.0	1.0	3.0	1.0	1.3
9	M10-181065	1.0	1.0	2.5	1.0	1.0
10	M10-181070	2.0	1.0	2.5	1.0	1.0
11	M10-186021	1.0	1.0	3.5	1.0	1.0
12	M10-187011	1.0	1.0	3.0	1.0	1.5
13	M10-187121	1.0	1.0	3.0	1.0	1.3
14	M10-221048	1.0	1.0	3.0	1.0	1.5
15	M10-221067	1.0	1.0	3.0	1.0	1.3
16	M10-221090	1.0	1.0	3.0	1.0	1.8
17	M10-221099	1.0	1.0	3.5	1.0	1.5
18	M10-249041	1.0	1.0	3.0	1.0	1.5
19	M11-108078	1.0	1.0	1.5	1.0	1.5
20	MSC10-561019	1.0	1.0	3.5	1.0	1.5
21	ND12-13257	1.0	1.0	1.5	1.0	1.0
22	ND13-4453	1.0	1.0	3.5	1.0	1.5
23	ND13-5752	1.0	1.0	3.0	1.0	1.3
24	ND13-7728	1.0	1.0	2.5	1.0	1.3
25	ND13-7810	1.0	1.0	3.0	1.0	1.8
26	ND13-7831	1.0	1.0	2.0	1.0	1.3
27	ND13-7974	1.0	1.0	3.5	1.0	1.0
28	ND13-8443	1.0	1.0	2.0	1.0	1.3
29	ND13-8522	1.0	1.0	3.0	1.0	1.0
30	ND13-8691	1.0	1.0	2.5	1.0	1.0

2016 SCN PRELIMINARY TEST 0

Height (inches)

		Davners	Fairfax	Rosemount	Wyndmere	Woodstock
		MN	MN	MN	ND	ON
		2.5.7	1.2.5.7	2.5.7	0	NI
SCN HG Type						
Strain						
1	Sheyenne	23	26	36		33
2	MN1410	35	31	36		34
3	MN0095	24	22	29		31
4	MN0606CN	34	31	34		32
5	M10-181003	34	28	30		28
6	M10-181020	31	29	30		28
7	M10-181025	24	25	28		30
8	M10-181060	34	34	32		35
9	M10-181065	30	29	29		23
10	M10-181070	36	32	31		29
11	M10-186021	29	32	31		25
12	M10-187011	32	33	31		32
13	M10-187121	29	30	28		29
14	M10-221048	24	30	30		31
15	M10-221067	24	28	30		33
16	M10-221090	23	28	32		32
17	M10-221099	21	36	34		32
18	M10-249041	30	31	35		35
19	M11-108078	29	22	25		30
20	MSC10-561019	25	29	30		30
21	ND12-13257	25	16	25		23
22	ND13-4453	27	26	30		32
23	ND13-5752	36	36	36		39
24	ND13-7728	22	31	32		31
25	ND13-7810	33	25	33		30
26	ND13-7831	28	26	29		28
27	ND13-7974	26	29	29		22
28	ND13-8443	34	25	33		30
29	ND13-8522	24	35	33		31
30	ND13-8691	25	34	36		31

2016 SCN PRELIMINARY TEST 0

Seed Quality (score)

		Davners	Fairfax	Rosemount	Wyndmere	Woodstock
		MN	MN	MN	ND	ON
		2.5.7	1.2.5.7	2.5.7	0	NI
SCN HG Type						
Strain						
1	Sheyenne	1.5	3.0	2.5		3.5
2	MN1410	1.5	1.5	1.5		1.5
3	MN0095	2.0	2.0	1.5		2.0
4	MN0606CN	2.0	2.0	1.0		2.0
5	M10-181003	1.0	1.5	1.5		2.0
6	M10-181020	1.0	1.5	1.5		3.5
7	M10-181025	1.0	2.0	2.0		2.5
8	M10-181060	1.5	1.0	1.0		2.0
9	M10-181065	1.5	1.0	1.5		2.0
10	M10-181070	1.0	1.0	1.5		3.0
11	M10-186021	1.5	1.0	1.0		2.0
12	M10-187011	1.5	2.0	1.5		2.0
13	M10-187121	2.0	2.0	2.0		2.0
14	M10-221048	2.0	2.0	1.5		2.0
15	M10-221067	1.0	1.5	1.5		2.5
16	M10-221090	2.0	2.5	1.5		4.5
17	M10-221099	1.5	2.0	1.0		3.0
18	M10-249041	2.5	2.0	1.0		2.5
19	M11-108078	2.5	1.5	1.5		4.5
20	MSC10-561019	2.0	2.5	2.5		2.0
21	ND12-13257	2.0	2.5	1.5		2.0
22	ND13-4453	2.5	2.5	2.5		2.0
23	ND13-5752	1.0	2.5	1.5		4.5
24	ND13-7728	2.5	2.5	2.0		3.5
25	ND13-7810	1.5	2.5	2.5		2.5
26	ND13-7831	2.0	2.5	2.0		2.0
27	ND13-7974	1.5	2.0	2.0		2.5
28	ND13-8443	1.5	1.5	1.5		2.5
29	ND13-8522	2.0	1.0	2.0		4.5
30	ND13-8691	2.0	1.5	1.5		2.5

2016 SCN PRELIMINARY TEST 0

Seed Weight (g/100)

		Davners MN 2.5.7	Fairfax MN 1.2.5.7	Rosemount MN 2.5.7	Wyndmere ND 0	Woodstock ON NI
SCN HG Type						
Strain						
1	Sheyenne	14.7	15.8	14.6		19.2
2	MN1410	16.4	17.6	14.7		23.8
3	MN0095	15.5	12.5	11.7		15.7
4	MN0606CN	15.3	15.6	14.1		19.1
5	M10-181003	17.7	18.5	17.0		20.7
6	M10-181020	19.6	18.0	15.9		23.2
7	M10-181025	18.0	17.7	15.6		22.2
8	M10-181060	16.3	15.9	14.4		20.1
9	M10-181065	19.2	19.5	17.0		21.8
10	M10-181070	19.3	19.0	17.1		22.7
11	M10-186021	15.6	15.3	14.4		20.5
12	M10-187011	14.6	15.3	11.7		18.6
13	M10-187121	16.9	17.4	14.7		21.5
14	M10-221048	17.5	16.6	15.2		21.3
15	M10-221067	17.5	17.9	17.6		22.5
16	M10-221090	17.6	16.3	15.1		21.6
17	M10-221099	17.0	15.3	15.6		21.1
18	M10-249041	16.9	17.0	14.9		22.3
19	M11-108078	17.2	16.5	14.7		21.4
20	MSC10-561019	16.0	13.6	13.0		18.8
21	ND12-13257	14.8	12.6	12.6		18.1
22	ND13-4453	17.1	13.5	14.1		20.8
23	ND13-5752	16.2	16.7	15.0		20.7
24	ND13-7728	15.2	13.5	12.9		17.4
25	ND13-7810	13.7	12.1	11.8		16.9
26	ND13-7831	15.8	13.3	12.9		17.2
27	ND13-7974	14.1	12.6	12.8		16.3
28	ND13-8443	15.7	14.4	13.9		18.7
29	ND13-8522	14.5	16.1	14.9		19.0
30	ND13-8691	15.7	14.9	14.5		19.8

2016 SCN PRELIMINARY TEST 0

Protein (%)					
SCN HG Type	Davners MN 2.5.7	Fairfax MN 1.2.5.7	Rosemount MN 2.5.7	Wyndmere ND 0	Woodstock ON NI
Strain					
1 Sheyenne	33.9	34.8	35.9		34.5
2 MN1410	35.1	35.4	36.9		37.6
3 MN0095	35.4	35.6	36.2		34.8
4 MN0606CN	35.5	36.1	36.5		35.7
5 M10-181003	35.0	34.8	37.2		36.4
6 M10-181020	35.7	35.6	37.1		35.9
7 M10-181025	36.6	36.2	38.0		36.1
8 M10-181060	35.2	35.3	37.7		36.9
9 M10-181065	36.1	35.1	37.5		35.7
10 M10-181070	35.4	37.0	37.3		36.2
11 M10-186021	33.1	34.2	37.0		36.1
12 M10-187011	34.9	35.2	35.2		34.0
13 M10-187121	35.3	35.1	36.3		36.1
14 M10-221048	35.9	36.7	37.5		36.7
15 M10-221067	36.0	36.3	37.1		37.1
16 M10-221090	33.8	34.6	36.4		35.9
17 M10-221099	36.6	37.1	37.5		37.1
18 M10-249041	33.5	37.1	37.7		37.5
19 M11-108078	33.8	35.9	36.7		36.5
20 MSC10-561019	34.4	35.9	36.8		36.2
21 ND12-13257	34.2	33.0	34.5		33.9
22 ND13-4453	35.5	34.8	37.3		37.2
23 ND13-5752	33.6	33.7	35.6		34.7
24 ND13-7728	35.2	35.8	35.4		35.1
25 ND13-7810	34.0	33.2	34.4		33.8
26 ND13-7831	35.4	36.1	35.2		35.3
27 ND13-7974	35.0	35.6	36.7		34.2
28 ND13-8443	34.9	34.8	35.8		35.4
29 ND13-8522	33.9	35.8	36.3		35.7
30 ND13-8691	34.5	36.3	35.1		36.5

2016 SCN PRELIMINARY TEST 0

Oil (%)

		Davners MN 2.5.7	Fairfax MN 1.2.5.7	Rosemount MN 2.5.7	Wyndmere ND 0	Woodstock ON NI
SCN HG Type						
Strain						
1	Sheyenne	19.3	19.4	18.9		19.0
2	MN1410	18.3	19.2	18.0		18.3
3	MN0095	19.5	20.0	18.4		19.5
4	MN0606CN	18.3	19.5	17.5		18.8
5	M10-181003	18.4	19.3	17.5		18.2
6	M10-181020	19.4	20.5	18.4		18.7
7	M10-181025	18.7	20.3	18.2		18.7
8	M10-181060	18.3	18.1	17.8		18.4
9	M10-181065	18.2	20.0	17.7		18.5
10	M10-181070	18.9	19.5	18.3		18.4
11	M10-186021	19.1	19.9	17.7		18.7
12	M10-187011	18.9	19.4	19.0		19.5
13	M10-187121	19.5	19.4	17.7		18.7
14	M10-221048	19.4	19.8	18.8		18.8
15	M10-221067	19.2	19.0	18.9		18.4
16	M10-221090	18.2	20.1	18.3		18.5
17	M10-221099	18.5	18.2	18.5		18.9
18	M10-249041	18.7	19.5	17.8		18.3
19	M11-108078	19.8	19.7	17.9		18.3
20	MSC10-561019	18.5	19.6	18.3		18.5
21	ND12-13257	20.4	20.6	19.0		20.0
22	ND13-4453	17.9	19.0	18.2		17.8
23	ND13-5752	20.2	21.3	19.4		19.0
24	ND13-7728	18.9	19.0	19.1		18.4
25	ND13-7810	19.4	19.8	19.2		19.4
26	ND13-7831	19.6	19.9	18.8		18.7
27	ND13-7974	19.7	20.6	20.3		19.8
28	ND13-8443	18.6	19.2	18.5		18.4
29	ND13-8522	19.6	18.2	18.4		18.4
30	ND13-8691	18.8	19.8	18.4		18.8

2016 SCN UNIFORM TEST I

Strain		Descriptive code	Parentage	Previous testing
1	MN1410	WGbf	Unknown	11
2	IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024	9
3	Sheyenne (0)	PGy	Pioneer 9071 x A96-492041	8
4	U11-917032	PTbl	LD02-4485 x U03-100612	2
5	AR13-131003	PGibl	AR05-250101 x PI 567516C	1
6	M07-209037	WGy	M90-184111 x MN0606CN	3
7	M08-359087	WTy	M02-391112 x MN1701CN	1
8	M09-269079	PGibl	MN0908CN x LD02-4485	15 SCN P I
9	M09-278026	P+WGy	M90-184111 x E06936	15 SCN P I
10	M09-278134	WGy	M90-184111 x E06936	15 SCN P II
11	M09-285032	PGy	MN1701CN x E06936	15 SCN P I
12	M09-285056	PGy	MN1701CN x E06936	15 SCN P II
13	M09-285149	PGbf	MN1701CN x E06936	15 SCN P I
14	MSC09-774074	PTbr	Sheyenne x PI567516C	15 SCN P I
15	MSC09-774089	WGy	Sheyenne x PI567516C	15 SCN P I
16	MSC09-778027	PTy/br	IA2073 x PI438489B	15 SCN P II
17	ORC 3713N	PGy	Starfield x SC 2307	15 SCN P I

Strain		Gen comp	SCN res source	Traits
1	MN1410	F5	None	
2	IA1022 (SCN)	F5	PI88788	
3	Sheyenne (0)	F4	None	Rsp1-c
4	U11-917032	F6	PI 88788	
5	AR13-131003	F5	PI 567516C,88788	IDC
6	M07-209037	F5	PI 88788	
7	M08-359087	F5	PI 88788,209332	
8	M09-269079	F5	PI 88788,209332	
9	M09-278026	F5	PI 88788	
10	M09-278134	F5	PI 88788	
11	M09-285032	F5	PI 88788,209332	
12	M09-285056	F5	PI 88788,209332	
13	M09-285149	F5	PI 88788,209332	
14	MSC09-774074	F5	PI 567516C	
15	MSC09-774089	F5	PI 567516C	
16	MSC09-778027	F5	PI 438489B	1% linolenic
17	ORC 3713N	F5	PI 88788	

2016 SCN UNIFORM TEST I

	IL SCN screen				ISU IDC	MN IDC	SIU SDS
	HG Type 0		HG Type 2.5.7		Bruner	Danvers	Monmouth
Strain	FI	rating	FI	rating	score	score	DX
1 MN1410	54	LR	69	NR	2.5	5.0	0.2
2 IA1022 (SCN)	26	MR	54	LR	2.0	4.3	0.2
3 Sheyenne (0)	83	NR	80	NR	1.8	4.5	0.0
4 U11-917032	11	R	63	NR	3.8	5.0	0.0
5 AR13-131003	6	HR	47	LR	1.5	4.5	8.3
6 M07-209037	5	HR	37	MR	2.5	3.5	3.4
7 M08-359087	8	HR	58	LR	3.0	4.0	0.9
8 M09-269079	13	R	57	LR	2.3	3.5	0.1
9 M09-278026	7	HR	59	LR	3.8	3.8	0.1
10 M09-278134	8	HR	54	LR	3.0	4.5	3.4
11 M09-285032	23	R	72	NR	3.0	5.0	0.0
12 M09-285056	9	HR	56	LR	2.3	4.3	8.3
13 M09-285149	7	HR	51	LR	2.3	4.3	0.0
14 MSC09-774074	4	HR	60	NR	1.3	3.8	6.7
15 MSC09-774089	2	HR	55	LR	2.3	4.5	0.1
16 MSC09-778027	2	HR	49	LR	2.0	4.3	6.1
17 ORC 3713N	8	HR	82	NR	3.5	4.5	10.0

Ave. 2.4 Ave. 4.3 Int 8.4
LSD 2.2 LSD 1.1 Sus 5.3
LSD na

2016 SCN UNIFORM TEST I

Summary

Strain		Yield						Maturity date	Lodging score	Height inches	Seed			
		All		Infested		Non-infested					quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank				score	g/100	@13%	@13%
Locations		9		9				8	9	9	8	8	7	7
1	MN1410	42.4	16	42.4	16			9/15	2.2	34	1.7	16.6	36.1	18.4
2	IA1022 (SCN)	51.8	15	51.8	15			4	2.3	35	1.3	16.4	32.9	20.0
3	Sheyenne (0)	42.4	16	42.4	16			-7	2.0	31	2.3	15.9	35.3	19.3
4	U11-917032	60.2	5	60.2	5			4	2.4	35	1.3	17.3	33.5	19.9
5	AR13-131003	58.2	12	58.2	12			5	2.2	37	1.2	18.3	34.6	19.1
6	M07-209037	60.8	2	60.8	2			4	2.7	35	1.6	17.4	33.6	19.4
7	M08-359087	57.4	13	57.4	13			4	2.6	40	1.5	16.3	35.0	19.0
8	M09-269079	58.2	11	58.2	11			3	2.3	41	1.3	16.5	35.8	19.0
9	M09-278026	58.8	8	58.8	8			4	2.1	39	1.4	15.4	34.4	18.6
10	M09-278134	59.4	6	59.4	6			5	2.2	40	1.3	15.7	34.7	18.4
11	M09-285032	60.9	1	60.9	1			3	2.1	38	1.7	16.6	34.8	18.9
12	M09-285056	56.9	14	56.9	14			6	1.6	35	1.4	16.3	33.8	19.0
13	M09-285149	60.5	3	60.5	3			5	2.2	37	1.2	16.1	35.2	18.6
14	MSC09-774074	60.4	4	60.4	4			5	1.9	35	1.5	15.8	32.1	19.9
15	MSC09-774089	59.4	6	59.4	6			4	2.4	40	1.5	16.1	35.2	18.8
16	MSC09-778027	58.3	10	58.3	10			4	2.0	35	1.7	17.1	33.8	18.9
17	ORC 3713N	58.6	9	58.6	9			5	2.1	41	1.2	19.2	34.6	19.9
Mean		56.7		56.7				18.8	2.2	37.0	1.5	16.6	34.4	19.1
LSD(.05)		3.0		3.0				1.8	0.2	1.7				
C.V. %		9.9		9.9				17.1	19.8	8.6				
Replications		24		24				21	23	23				

2 Year Summary

Strain		Yield						Maturity date	Lodging score	Height inches	Seed			
		All		Infested		Non-infested					quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank				score	g/100	@13%	@13%
Locations		19		19		0		17	18	19	17	17	16	16
1	MN1410	45.8	6	45.8	6			9/16	1.8	32.8	1.7	16.2	36.1	18.6
2	IA1022 (SCN)	54.9	5	54.9	5			5	1.9	33.1	1.4	16.1	33.0	20.1
3	Sheyenne (0)	40.1	7	40.1	7			-6	1.6	28.3	2.2	15.6	35.4	19.0
4	U11-917032	60.4	2	60.4	2			6	2.0	32.3	1.3	16.9	33.6	19.9
5	AR13-131003	59.6	3	59.6	3			6	1.9	34.5	1.1	18.0	34.3	19.4
6	M07-209037	61.3	1	61.3	1			4	2.1	32.2	1.5	16.5	33.1	19.7
7	M08-359087	56.9	4	56.9	4			4	2.2	36.0	1.5	16.1	35.0	19.1

2016 SCN UNIFORM TEST I

Yield (bu/a)

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410	36.6	75.8	57.8	31.2	42.0	43.6
2	IA1022 (SCN)	26.6	79.8	63.8	51.5	57.0	51.2
3	Sheyenne (0)	45.8	67.5	56.6	24.1	39.0	48.0
4	U11-917032	73.1	81.1	75.0	54.6	51.9	43.5
5	AR13-131003	64.0	78.1	67.6	53.2	47.0	40.8
6	M07-209037	66.9	83.7	66.7	58.1	52.3	55.9
7	M08-359087	51.1	77.0	63.2	62.6	45.5	58.3
8	M09-269079	62.9	75.9	56.8	51.4	53.3	52.1
9	M09-278026	67.4	75.6	65.1	51.6	52.2	49.6
10	M09-278134	65.5	74.8	64.9	54.8	52.1	51.8
11	M09-285032	70.8	78.8	65.8	48.7	51.1	51.9
12	M09-285056	59.5	69.3	66.0	53.0	51.3	55.8
13	M09-285149	68.9	71.6	67.4	56.9	47.5	43.4
14	MSC09-774074	65.6	76.9	74.5	52.4	48.6	47.8
15	MSC09-774089	67.7	77.7	61.9	57.4	51.4	53.5
16	MSC09-778027	61.5	69.4	69.5	53.1	50.1	43.1
17	ORC 3713N	64.1	74.8	65.5	52.6	43.9	45.7
Average		59.9	75.7	65.2	51.0	49.2	49.2
LSD(.05)		9.4	6.1	6.6	7.1	9.1	14.4
C.V. %		7.4	3.8	4.8	8.4	11.1	15.0
Replications		2	2	2	3	3	3
Row width (in.)		30	30	30	30	30	30

2016 SCN UNIFORM TEST I

Yield (bu/a)

		Yield (bu/a)		
SCN HG Type		Ridgetown ON I	Chatham ON 2.5.7	Harrow ON 2.5.7
Strain				
1	MN1410	77.0	3.3	20.2
2	IA1022 (SCN)	71.0	37.9	38.0
3	Sheyenne (0)	61.0	7.4	10.5
4	U11-917032	79.9	53.1	33.9
5	AR13-131003	76.9	58.2	39.9
6	M07-209037	73.5	59.9	40.7
7	M08-359087	64.9	51.6	38.1
8	M09-269079	72.7	56.1	43.3
9	M09-278026	74.0	59.8	37.7
10	M09-278134	71.8	56.5	39.0
11	M09-285032	76.5	59.6	43.3
12	M09-285056	78.5	55.1	43.2
13	M09-285149	71.2	60.2	49.1
14	MSC09-774074	81.2	64.3	40.7
15	MSC09-774089	72.8	54.6	42.3
16	MSC09-778027	71.8	55.9	41.8
17	ORC 3713N	82.0	56.1	44.5
Average		73.9	50.0	38.0
LSD(.05)		10.1	8.1	10.5
C.V. %		10.8	8.1	13.7
Replications		3	3	3
Row width (in.)		30	24	24

2016 SCN UNIFORM TEST I

Yield (rank)

		Yield (rank)					
		Arlington IA	Mason City IA	Urbana IL	Fairfax MN	Lamberton MN	Waseca MN
SCN HG Type		2.5.7	2.3.5.6.7	2.5.7	1.2.5.7	I	2.5.7
Strain							
1	MN1410	16	10	15	16	16	13
2	IA1022 (SCN)	17	3	12	13	1	8
3	Sheyenne (0)	15	17	17	17	17	10
4	U11-917032	1	2	1	6	6	14
5	AR13-131003	10	5	4	7	13	17
6	M07-209037	6	1	6	2	3	2
7	M08-359087	14	7	13	1	14	1
8	M09-269079	11	9	16	14	2	5
9	M09-278026	5	11	10	12	4	9
10	M09-278134	8	12	11	5	5	7
11	M09-285032	2	4	8	15	9	6
12	M09-285056	13	16	7	9	8	3
13	M09-285149	3	14	5	4	12	15
14	MSC09-774074	7	8	2	11	11	11
15	MSC09-774089	4	6	14	3	7	4
16	MSC09-778027	12	15	3	8	10	16
17	ORC 3713N	9	12	9	10	15	12

2016 SCN UNIFORM TEST I

Yield (rank)

		Yield (rank)		
SCN HG Type		Ridgetown ON I	Chatham ON 2.5.7	Harrow ON 2.5.7
Strain				
1	MN1410	5	17	16
2	IA1022 (SCN)	15	15	13
3	Sheyenne (0)	17	16	17
4	U11-917032	3	13	15
5	AR13-131003	6	6	10
6	M07-209037	9	3	9
7	M08-359087	16	14	12
8	M09-269079	11	8	3
9	M09-278026	8	4	14
10	M09-278134	12	7	11
11	M09-285032	7	5	4
12	M09-285056	4	11	5
13	M09-285149	14	2	1
14	MSC09-774074	2	1	8
15	MSC09-774089	10	12	6
16	MSC09-778027	13	10	7
17	ORC 3713N	1	9	2

2016 SCN UNIFORM TEST I

Maturity

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410		9/22	8/29	9/24	9/21	9/21
2	IA1022 (SCN)		0	8	6	7	5
3	Sheyenne (0)		-14	0	-13	-5	-7
4	U11-917032		3	9	5	7	5
5	AR13-131003		2	8	5	7	5
6	M07-209037		-1	8	4	6	3
7	M08-359087		1	7	3	7	4
8	M09-269079		0	9	3	9	6
9	M09-278026		3	8	2	6	2
10	M09-278134		4	9	5	7	5
11	M09-285032		1	7	3	0	2
12	M09-285056		1	8	6	8	4
13	M09-285149		-1	9	5	7	3
14	MSC09-774074		3	10	4	9	3
15	MSC09-774089		0	7	4	6	1
16	MSC09-778027		2	8	5	9	4
17	ORC 3713N		-1	9	7	4	6
Planted		5/9	5/5	5/21	5/26	5/18	6/2

2016 SCN UNIFORM TEST I

Maturity

		Ridgetown ON I	Chatham ON 2.5.7	Harrow ON 2.5.7
SCN HG Type				
Strain				
1	MN1410	9/24	9/16	9/15
2	IA1022 (SCN)	6	3	2
3	Sheyenne (0)	-5	-5	-11
4	U11-917032	3	7	1
5	AR13-131003	6	9	3
6	M07-209037	10	-5	1
7	M08-359087	13	-7	-1
8	M09-269079	6	8	3
9	M09-278026	14	6	-3
10	M09-278134	14	6	-2
11	M09-285032	7	5	-1
12	M09-285056	8	7	3
13	M09-285149	14	7	1
14	MSC09-774074	5	8	2
15	MSC09-774089	13	6	2
16	MSC09-778027	6	6	0
17	ORC 3713N	10	7	2
Planted		5/27	6/3	5/27

2016 SCN UNIFORM TEST I

Lodging (score)

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410	3.8	3.0	3.0	1.0	1.7	2.3
2	IA1022 (SCN)	3.0	2.5	4.0	1.5	2.0	2.7
3	Sheyenne (0)	3.3	3.0	2.5	1.0	1.3	2.3
4	U11-917032	2.8	3.3	2.5	1.5	2.7	2.3
5	AR13-131003	2.8	3.0	2.8	1.1	2.3	2.3
6	M07-209037	3.5	2.8	3.5	2.5	2.7	3.0
7	M08-359087	3.5	3.0	3.8	2.0	2.7	3.3
8	M09-269079	3.3	3.0	3.0	1.1	2.0	2.3
9	M09-278026	3.5	2.8	3.0	1.0	2.0	2.3
10	M09-278134	3.3	2.0	3.5	2.0	2.0	2.3
11	M09-285032	3.0	3.0	3.3	1.0	1.7	2.3
12	M09-285056	2.0	2.5	1.8	1.0	1.3	2.0
13	M09-285149	2.5	2.8	2.5	1.5	2.7	2.3
14	MSC09-774074	2.0	2.5	2.5	1.5	2.3	2.7
15	MSC09-774089	3.0	3.0	4.0	1.0	2.7	2.7
16	MSC09-778027	2.0	3.0	2.5	1.0	2.3	2.7
17	ORC 3713N	2.8	3.0	2.8	1.5	2.0	2.0

2016 SCN UNIFORM TEST I

Lodging (score)

		Ridgetown ON I	Chatham ON 2.5.7	Harrow ON 2.5.7
SCN HG Type				
Strain				
1	MN1410	2.3	1.0	1.0
2	IA1022 (SCN)	2.7	1.0	1.0
3	Sheyenne (0)	2.3	1.0	1.0
4	U11-917032	4.0	1.0	1.0
5	AR13-131003	3.7	1.0	1.0
6	M07-209037	3.7	1.0	1.0
7	M08-359087	3.0	1.0	1.0
8	M09-269079	3.7	1.0	1.0
9	M09-278026	2.3	1.0	1.0
10	M09-278134	2.0	1.0	1.0
11	M09-285032	2.3	1.0	1.0
12	M09-285056	1.3	1.0	1.0
13	M09-285149	3.0	1.0	1.0
14	MSC09-774074	1.3	1.0	1.0
15	MSC09-774089	2.7	1.0	1.0
16	MSC09-778027	2.3	1.0	1.0
17	ORC 3713N	2.3	1.0	1.0

2016 SCN UNIFORM TEST I

Height (inches)

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410	33	39	39	34	35	42
2	IA1022 (SCN)	32	40	39	35	38	39
3	Sheyenne (0)	27	34	38	29	33	38
4	U11-917032	36	39	35	37	37	38
5	AR13-131003	36	41	37	39	35	41
6	M07-209037	31	32	38	37	34	39
7	M08-359087	36	39	43	41	40	42
8	M09-269079	35	45	45	42	40	44
9	M09-278026	39	39	38	43	35	43
10	M09-278134	36	44	41	44	40	46
11	M09-285032	33	39	35	39	39	44
12	M09-285056	36	39	35	33	35	41
13	M09-285149	37	40	37	39	38	40
14	MSC09-774074	33	39	32	33	36	40
15	MSC09-774089	38	41	37	41	45	45
16	MSC09-778027	34	38	33	34	39	41
17	ORC 3713N	40	44	41	44	41	38

2016 SCN UNIFORM TEST I

Height (inches)

SCN HG Type		Ridgetown ON I	Chatham ON 2.5.7	Harrow ON 2.5.7
Strain				
1	MN1410	48	19	19
2	IA1022 (SCN)	46	28	21
3	Sheyenne (0)	45	21	15
4	U11-917032	43	31	21
5	AR13-131003	47	34	24
6	M07-209037	49	32	21
7	M08-359087	54	37	25
8	M09-269079	49	40	28
9	M09-278026	52	37	25
10	M09-278134	51	37	22
11	M09-285032	47	39	28
12	M09-285056	45	30	21
13	M09-285149	49	32	23
14	MSC09-774074	49	29	21
15	MSC09-774089	49	36	25
16	MSC09-778027	45	29	20
17	ORC 3713N	54	37	29

2016 SCN UNIFORM TEST I

Seed Quality (score)

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410		1.0	2.0	1.7	1.7	1.0
2	IA1022 (SCN)		1.0	2.0	1.3	1.7	1.0
3	Sheyenne (0)		2.0	3.0	2.0	2.7	1.7
4	U11-917032		1.0	2.0	1.3	1.0	1.0
5	AR13-131003		1.0	2.0	1.0	1.0	1.0
6	M07-209037		1.0	2.0	1.7	1.3	1.3
7	M08-359087		1.0	2.0	1.7	1.3	1.7
8	M09-269079		1.0	2.0	1.0	1.0	1.3
9	M09-278026		1.0	2.0	1.0	1.3	1.0
10	M09-278134		1.0	2.0	1.3	1.0	1.3
11	M09-285032		1.0	3.0	1.7	1.7	1.0
12	M09-285056		1.0	2.0	1.3	1.3	1.0
13	M09-285149		1.0	2.0	1.0	1.0	1.0
14	MSC09-774074		2.0	2.0	1.0	1.0	1.0
15	MSC09-774089		2.0	2.0	1.0	2.3	1.0
16	MSC09-778027		1.0	3.0	1.7	1.7	1.3
17	ORC 3713N		1.0	2.0	1.0	1.3	1.0

2016 SCN UNIFORM TEST I

Seed Quality (score)

		Ridgetown ON I	Chatham ON 2.5.7	Harrow ON 2.5.7
SCN HG Type				
Strain				
1	MN1410	1.0	3.0	2.3
2	IA1022 (SCN)	1.0	1.3	1.3
3	Sheyenne (0)	1.0	2.0	4.3
4	U11-917032	1.0	1.0	2.3
5	AR13-131003	1.0	1.0	1.3
6	M07-209037	1.0	1.3	3.0
7	M08-359087	1.0	1.3	2.0
8	M09-269079	1.0	1.3	2.0
9	M09-278026	1.0	1.3	2.3
10	M09-278134	1.0	1.0	2.0
11	M09-285032	1.0	1.7	2.3
12	M09-285056	1.0	2.0	1.7
13	M09-285149	1.0	1.0	1.7
14	MSC09-774074	1.0	1.7	2.3
15	MSC09-774089	1.0	1.3	1.7
16	MSC09-778027	1.0	1.7	2.3
17	ORC 3713N	1.0	1.0	1.0

2016 SCN UNIFORM TEST I

Seed Weight (g/100)

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410		16.1	16.9	16.9	17.0	16.6
2	IA1022 (SCN)		15.3	15.5	16.5	16.7	15.7
3	Sheyenne (0)		16.2	17.2	16.2	16.1	16.1
4	U11-917032		17.1	17.1	17.1	17.4	16.4
5	AR13-131003		15.8	16.9	19.2	18.1	18.7
6	M07-209037		14.9	17.5	17.3	16.4	15.7
7	M08-359087		14.6	15.3	16.8	15.6	15.9
8	M09-269079		12.7	16.2	16.4	16.1	16.0
9	M09-278026		13.9	14.5	14.9	14.2	15.1
10	M09-278134		14.9	14.3	15.2	14.5	15.0
11	M09-285032		13.4	16.9	16.8	16.0	16.4
12	M09-285056		14.8	15.4	15.8	15.6	15.0
13	M09-285149		13.5	16.1	16.3	15.8	15.3
14	MSC09-774074		14.9	15.5	15.3	15.0	14.7
15	MSC09-774089		14.5	15.8	16.3	16.3	15.2
16	MSC09-778027		19.1	16.1	16.2	16.2	16.4
17	ORC 3713N		15.3	19.7	19.4	18.6	20.0

2016 SCN UNIFORM TEST I

Seed Weight (g/100)

SCN HG Type		Ridgetown ON I	Chatham ON 2.5.7	Harrow ON 2.5.7
Strain				
1	MN1410	21.2	11.8	16.4
2	IA1022 (SCN)	19.5	13.7	18.1
3	Sheyenne (0)	18.2	12.7	14.8
4	U11-917032	20.2	16.6	16.5
5	AR13-131003	20.9	18.1	19.0
6	M07-209037	20.9	18.0	18.9
7	M08-359087	18.8	16.3	16.9
8	M09-269079	19.6	17.7	17.3
9	M09-278026	18.9	15.6	16.2
10	M09-278134	19.5	15.7	16.5
11	M09-285032	18.6	17.9	17.0
12	M09-285056	20.2	16.3	17.2
13	M09-285149	18.5	16.9	16.6
14	MSC09-774074	19.0	16.3	15.4
15	MSC09-774089	19.1	16.6	15.4
16	MSC09-778027	19.5	16.9	16.2
17	ORC 3713N	24.4	19.1	17.0

2016 SCN UNIFORM TEST I

Protein (%)

		Mason City IA	Fairfax MN	Lamberton MN	Waseca MN	Ridgetown ON	Chatham ON	Harrow ON
SCN HG Type		2.3.5.6.7	1.2.5.7	I	2.5.7	I	2.5.7	2.5.7
Strain								
1	MN1410	34.2	35.5	36.1	33.4	38.7	37.1	37.4
2	IA1022 (SCN)	30.9	33.0	32.8	31.4	35.4	33.1	33.5
3	Sheyenne (0)	34.4	34.5	35.1	34.3	36.3	36.0	36.3
4	U11-917032	30.8	33.4	33.7	32.3	36.4	34.7	33.6
5	AR13-131003	33.9	35.1	34.6	33.2	35.8	34.6	35.1
6	M07-209037	33.3	33.7	32.2	33.0	35.6	33.6	34.0
7	M08-359087	32.3	35.1	35.1	34.1	37.5	36.2	34.8
8	M09-269079	34.2	35.0	35.7	35.5	38.0	36.5	35.9
9	M09-278026	31.6	34.5	32.9	33.8	37.3	35.6	35.0
10	M09-278134	32.5	34.6	34.5	34.2	37.1	35.2	34.8
11	M09-285032	32.8	34.4	34.2	34.3	37.3	35.8	34.5
12	M09-285056	32.0	33.5	33.8	32.5	35.8	34.4	35.0
13	M09-285149	32.7	35.1	35.2	34.1	37.5	36.2	35.3
14	MSC09-774074	29.0	32.3	32.4	30.6	33.6	33.4	33.6
15	MSC09-774089	33.8	35.5	35.2	33.3	37.8	35.9	34.6
16	MSC09-778027	32.1	33.5	32.7	33.2	35.9	34.3	34.7
17	ORC 3713N	32.0	35.0	34.4	34.4	37.0	35.0	34.3

2016 SCN UNIFORM TEST I

Oil (%)

		Mason City IA 2.3.5.6.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7	Ridgetown ON I	Chatham ON 2.5.7	Harrow ON 2.5.7
SCN HG Type								
Strain								
1	MN1410	17.2	20.0	18.2	19.0	17.9	18.1	18.8
2	IA1022 (SCN)	18.5	19.3	19.6	20.5	18.8	21.4	21.9
3	Sheyenne (0)	18.1	20.4	19.1	19.5	19.6	18.8	19.4
4	U11-917032	18.9	19.0	19.4	20.1	19.4	20.7	21.8
5	AR13-131003	17.4	20.0	18.8	19.0	18.2	20.2	20.4
6	M07-209037	17.8	19.7	18.9	19.4	18.2	21.0	20.9
7	M08-359087	18.1	19.4	18.7	19.0	17.6	19.7	20.4
8	M09-269079	17.6	19.4	18.2	18.8	18.7	19.7	20.4
9	M09-278026	17.5	19.1	18.5	18.4	17.7	19.2	19.7
10	M09-278134	16.2	18.7	17.9	18.3	18.6	19.1	19.8
11	M09-285032	17.8	19.7	18.8	18.4	17.5	19.9	20.5
12	M09-285056	17.3	19.8	18.5	18.6	18.4	20.3	20.2
13	M09-285149	18.2	19.0	17.5	18.2	17.5	19.5	20.0
14	MSC09-774074	18.9	20.3	19.5	19.9	19.1	20.6	21.0
15	MSC09-774089	16.9	17.6	18.7	19.2	18.8	19.9	20.5
16	MSC09-778027	17.6	19.3	18.1	18.3	18.5	20.3	20.5
17	ORC 3713N	19.8	19.8	20.4	18.9	18.4	20.9	21.2

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2016 SCN PRELIMINARY TEST I

	Strain	Descriptive code	Parentage	Gen. Comp.	SCN res source	Traits
1	MN1410	WGbf	Unknown	F5	None	
2	IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024	F5	PI88788	
3	Sheyenne (0)	PGy	Pioneer 9071 x A96-492041	F4	None	Rsp1-c
4	U11-917032	PTbl	LD02-4485 x U03-100612	F6	PI 88788	
5	AR15-158003	PT+Ltbl	AX19286-4-7 x AR06-165058	F5	PI 88788	
6	AR15-158006	WTbr	AX19287-1-5 x AR06-165058	F5	PI 88788	
7	AR15-158038	PGibl/bf	IAR1902 SCN x ND07-4635	F3	Peking	
8	AR15-158043	PGy	ND03-5441 x IAR1902 SCN	F3	Peking	
9	AR15-158057	PT+Ltbl/gr	ND07-4635 x AR16SCN	F3	PI 88788	
10	AR15-158072	PLtbr/bl	AR16SCN x U09-105007	F3	PI 88788	
11	M10-176042	WGy/bf	M04-212034 x OAC06-02	F5	PI 88788	
12	M10-208034	WGbf	M04-212108 x MN0605SP	F5	PI 88788	
13	M10-254090	WGy	M04-217116 x MN2001SP	F5	PI 88788	
14	M11-108030	WTy/br	LD05-1540 x M04-254003	F5	PI 88788	WILT
15	M11-108079	Wmm	LD05-1540 x M04-254003	F5	PI 88788	WILT
16	M11-108083	WT+Ggr	LD05-1540 x M04-254003	F5	PI 88788	WILT
17	M11-117005	WT+Gbflbr	MN1410 x F1 MSC10-567	F5		
18	M11-125033	PTgr	MN0606CN x 236FHP	F5	PI 88788	
19	M11-125046	PTgr	MN0606CN x 236FHP	F5	PI 88788	
20	M11-125077	PTbr	MN0606CN x 236FHP	F5	PI 88788	
21	MSC10-559061	P+WGy	Sheyenne x PI507471	F5	PI 507471	
22	MSC10-567015	WGbf	MN1410 x PI633736	F5	PI 633736	
23	MSC10-578011	P+WT+Gbflbr	DS-880 x Sheyenne	F5		
24	MSC10-578025	PLtbl	DS-880 x Sheyenne	F5		
25	MSC10-578046	PGgr/y	DS-880 x Sheyenne	F5		
26	OAC 14-36C-SCN	PGy		F5		
27	OAC 14-37C-SCN	PGy		F5		
28	OAC 14-39C-SCN	PGy		F5		
29	OAC 14-40C-SCN	PGy		F5		
30	ORC 1404N	PGy	HDC Goshen x OX-802	F5	PI 88788	

2016 SCN PRELIMINARY TEST I

	IL SCN screen				ISU IDC	MN IDC
	HG Type 0		HG Type 2.5.7		Bruner	Danvers
Strain	FI	rating	FI	rating	score	score
1 MN1410	54	LR	69	NR	2.5	1.5
2 IA1022 (SCN)	26	MR	54	LR	2.0	1.3
3 Sheyenne (0)	83	NR	80	NR	1.8	1.3
4 U11-917032	11	R	63	NR	3.8	2.3
5 AR15-158003	4	HR	67	NR	3.3	1.5
6 AR15-158006	6	HR	57	LR	2.3	1.5
7 AR15-158038	5	HR	69	NR	2.0	1.5
8 AR15-158043	24	**	5	HR	1.5	1.3
9 AR15-158057	11	R	74	NR	2.8	1.8
10 AR15-158072	9	HR	67	NR	2.5	1.3
11 M10-176042	33	**	65	NR	1.0	1.5
12 M10-208034	74	**	73	NR	1.3	1.0
13 M10-254090	15	**	58	LR	3.8	2.8
14 M11-108030	80	NR	78	NR	2.3	1.3
15 M11-108079	20	R	74	NR	1.8	1.3
16 M11-108083	26	MR	61	NR	2.3	2.3
17 M11-117005	60	NR	67	NR	2.3	1.5
18 M11-125033	23	**	67	NR	1.5	1.0
19 M11-125046	6	HR	71	NR	2.3	2.0
20 M11-125077	14	R	67	NR	2.3	1.3
21 MSC10-559061	16	R	74	NR	1.3	1.8
22 MSC10-567015	3	HR	32	MR	2.3	1.8
23 MSC10-578011	73	NR	64	NR	2.0	2.0
24 MSC10-578025	16	R	30	**	2.0	1.5
25 MSC10-578046	76	NR	74	NR	1.8	1.3
26 OAC 14-36C-SCN	12	R	64	NR	3.8	1.8
27 OAC 14-37C-SCN	12	R	67	NR	3.0	2.5
28 OAC 14-39C-SCN	93	NR	70	NR	2.3	1.5
29 OAC 14-40C-SCN	104	NR	63	NR	2.8	2.5
30 ORC 1404N	9	HR	72	NR	1.8	1.0

**rep data too variable to rate

Ave. 2.4

Ave. 1.6

LSD 2.2

LSD 0.8

2016 SCN PRELIMINARY TEST I

Summary

Strain		Yield						Seed						
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank							
Locations		6		6		0		5	6	6	5	5	4	6
1	MN1410	45.2	26	45.2	26			9/13	2.4	34	2.0	16.2	35.4	45.2
2	IA1022 (SCN)	51.2	18	51.2	18			9	2.4	35	1.5	15.9	31.8	51.2
3	Sheyenne (0)	43.1	30	43.1	30			-4	2.2	31	2.8	16.3	34.1	43.1
4	U11-917032	64.8	2	64.8	2			10	2.4	32	1.7	16.4	32.7	64.8
5	AR15-158003	57.3	8	57.3	8			10	2.4	40	1.4	17.9	34.6	57.3
6	AR15-158006	62.5	6	62.5	6			10	1.7	34	1.7	17.5	33.1	62.5
7	AR15-158038	62.7	4	62.7	4			11	2.0	38	1.7	16.0	32.3	62.7
8	AR15-158043	52.9	14	52.9	14			10	2.8	39	1.7	16.7	35.1	52.9
9	AR15-158057	62.7	4	62.7	4			13	2.1	38	1.4	18.1	34.5	62.7
10	AR15-158072	65.7	1	65.7	1			8	1.5	31	1.8	17.4	33.4	65.7
11	M10-176042	58.2	7	58.2	7			4	2.1	34	1.9	15.5	31.9	58.2
12	M10-208034	51.2	18	51.2	18			-1	2.5	31	2.2	16.9	35.6	51.2
13	M10-254090	55.5	10	55.5	10			6	2.8	39	1.8	18.4	35.9	55.5
14	M11-108030	51.7	16	51.7	16			0	2.4	35	2.2	17.3	35.0	51.7
15	M11-108079	47.9	23	47.9	23			8	2.3	40	2.6	18.5	34.8	47.9
16	M11-108083	44.3	28	44.3	28			0	2.1	31	1.9	16.0	34.7	44.3
17	M11-117005	45.0	27	45.0	27			-1	2.9	33	1.8	14.8	32.3	45.0
18	M11-125033	50.3	21	50.3	21			-2	1.9	30	1.7	14.5	34.9	50.3
19	M11-125046	52.1	15	52.1	15			0	2.4	33	1.6	14.9	34.4	52.1
20	M11-125077	46.4	24	46.4	24			0	2.7	34	1.5	15.0	36.4	46.4
21	MSC10-559061	54.5	11	54.5	11			6	3.0	41	2.0	15.2	33.9	54.5
22	MSC10-567015	51.6	17	51.6	17			7	2.3	33	1.6	15.9	35.1	51.6
23	MSC10-578011	43.8	29	43.8	29			0	2.1	34	1.8	16.3	34.5	43.8
24	MSC10-578025	64.8	2	64.8	2			11	1.9	38	1.5	17.3	34.7	64.8
25	MSC10-578046	48.2	22	48.2	22			-1	1.9	31	2.5	17.4	33.0	48.2
26	OAC 14-36C-SCN	53.3	12	53.3	12			-5	3.3	34	1.8	17.9	34.1	53.3
27	OAC 14-37C-SCN	50.9	20	50.9	20			-2	2.5	38	1.7	17.5	34.2	50.9
28	OAC 14-39C-SCN	55.9	9	55.9	9			6	2.6	34	2.0	16.4	32.6	55.9
29	OAC 14-40C-SCN	45.7	25	45.7	25			0	2.2	32	1.6	17.0	32.1	45.7
30	ORC 1404N	53.2	13	53.2	13			0	2.7	38	1.6	17.7	34.4	53.2
Mean		53.1		53.1				16.8	2.3	34.9	1.8	16.6	34.0	53.1
LSD(.05)		7.1		7.1				1.7	0.3	2.2				7.1
C.V. %		16.6		16.6				11.8	17.7	8.0				16.6
Replications		12		12				10	12	12				12

2016 SCN PRELIMINARY TEST I

Yield (bu/a)							
		Arlington IA	Mason City IA	Urbana IL	Fairfax MN	Lamberton MN	Waseca MN
SCN HG Type		2.5.7	2.3.5.6.7	2.5.7	1.2.5.7	I	2.5.7
Strain							
1	MN1410	33.2	63.5	53.2	27.0	48.7	46.4
2	IA1022 (SCN)	30.9	74.1	57.3	52.7	55.4	57.5
3	Sheyenne (0)	47.3	59.7	52.9	21.5	58.5	36.4
4	U11-917032	80.5	82.3	68.8	44.6	38.6	41.9
5	AR15-158003	61.5	76.2	65.3	45.2	45.1	50.8
6	AR15-158006	69.2	82.4	69.1	52.1	54.8	47.9
7	AR15-158038	58.2	81.6	72.7	42.5	50.5	52.3
8	AR15-158043	56.2	59.2	54.9	43.0	55.1	48.9
9	AR15-158057	52.3	73.8	73.1	53.1	65.3	58.6
10	AR15-158072	64.6	81.5	73.1	55.2	64.9	54.8
11	M10-176042	54.4	76.3	64.5	50.6	53.2	49.8
12	M10-208034	57.4	63.3	53.8	46.4	45.9	40.2
13	M10-254090	71.2	72.2	61.9	48.6	35.0	43.7
14	M11-108030	44.8	66.0	57.4	40.6	52.3	49.2
15	M11-108079	41.8	65.6	54.5	34.2	44.2	46.4
16	M11-108083	36.8	59.8	52.9	32.0	45.3	39.2
17	M11-117005	33.2	69.3	47.2	32.2	53.8	35.2
18	M11-125033	50.0	67.0	55.0	48.9	38.0	43.2
19	M11-125046	61.2	64.8	55.2	38.6	52.1	40.7
20	M11-125077	34.5	65.5	51.7	46.5	40.0	40.6
21	MSC10-559061	48.3	69.4	56.5	50.9	52.9	49.3
22	MSC10-567015	31.2	68.8	57.8	48.7	49.5	53.7
23	MSC10-578011	42.9	57.7	54.9	37.0	38.0	44.2
24	MSC10-578025	61.8	78.6	73.8	60.0	57.5	56.9
25	MSC10-578046	57.9	67.2	60.3	19.2	43.9	41.1
26	OAC 14-36C-SCN	55.7	60.6	51.2	45.4	60.4	46.1
27	OAC 14-37C-SCN	47.0	68.5	55.8	31.3	52.1	50.6
28	OAC 14-39C-SCN	54.4	71.4	63.5	52.8	37.5	55.6
29	OAC 14-40C-SCN	52.9	67.9	44.4	29.5	37.9	42.2
30	ORC 1404N	57.3	70.7	57.6	45.2	38.4	50.7
Average		51.6	69.5	59.0	42.5	48.8	47.1
LSD(.05)		14.6	6.5	5.1	16.1	24.7	14.6
C.V. %		13.8	4.6	4.2	18.2	23.2	15.2
Replications		2	2	2	2	2	2
Row width (in.)		30	30	30	30	30	30

2016 SCN PRELIMINARY TEST I

Yield (rank)							
		Arlington IA	Mason City IA	Urbana IL	Fairfax MN	Lamberton MN	Waseca MN
SCN HG Type		2.5.7	2.3.5.6.7	2.5.7	1.2.5.7	I	2.5.7
Strain							
1	MN1410	27	24	24	28	17	17
2	IA1022 (SCN)	30	8	15	5	6	2
3	Sheyenne (0)	20	28	25	29	4	29
4	U11-917032	1	2	6	17	24	23
5	AR15-158003	6	7	7	15	20	8
6	AR15-158006	3	1	5	6	8	15
7	AR15-158038	8	3	4	19	15	7
8	AR15-158043	12	29	20	18	7	14
9	AR15-158057	17	9	2	3	1	1
10	AR15-158072	4	4	2	2	2	5
11	M10-176042	14	6	8	8	10	11
12	M10-208034	10	25	23	13	18	27
13	M10-254090	2	10	10	11	30	20
14	M11-108030	22	20	14	20	12	13
15	M11-108079	24	21	22	23	21	16
16	M11-108083	25	27	25	25	19	28
17	M11-117005	27	14	29	24	9	30
18	M11-125033	18	19	19	9	26	21
19	M11-125046	7	23	18	21	14	25
20	M11-125077	26	22	27	12	23	26
21	MSC10-559061	19	13	16	7	11	12
22	MSC10-567015	29	15	12	10	16	6
23	MSC10-578011	23	30	20	22	27	19
24	MSC10-578025	5	5	1	1	5	3
25	MSC10-578046	9	18	11	30	22	24
26	OAC 14-36C-SCN	13	26	28	14	3	18
27	OAC 14-37C-SCN	21	16	17	26	13	10
28	OAC 14-39C-SCN	14	11	9	4	29	4
29	OAC 14-40C-SCN	16	17	30	27	28	22
30	ORC 1404N	11	12	13	16	25	9

2016 SCN PRELIMINARY TEST I

Maturity

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410		9/12	8/28	9/15	9/23	9/17
2	IA1022 (SCN)		8	7	15	7	8
3	Sheyenne (0)		-4	1	-3	-9	-6
4	U11-917032		10	9	16	6	9
5	AR15-158003		10	10	16	7	9
6	AR15-158006		11	11	15	6	8
7	AR15-158038		15	13	16	5	7
8	AR15-158043		12	9	15	7	8
9	AR15-158057		16	15	16	11	9
10	AR15-158072		6	11	11	5	6
11	M10-176042		6	5	8	0	3
12	M10-208034		-1	0	2	-5	-3
13	M10-254090		7	9	9	3	3
14	M11-108030		-2	2	4	-4	-1
15	M11-108079		10	10	14	6	2
16	M11-108083		2	1	3	-1	-3
17	M11-117005		-3	-2	3	-2	-2
18	M11-125033		-4	1	0	-4	-1
19	M11-125046		-2	3	3	-3	2
20	M11-125077		-2	1	5	-1	0
21	MSC10-559061		7	8	13	2	2
22	MSC10-567015		11	5	11	3	7
23	MSC10-578011		2	5	1	-5	0
24	MSC10-578025		14	11	16	7	7
25	MSC10-578046		5	1	-3	-4	-3
26	OAC 14-36C-SCN		-4	-3	-2	-10	-5
27	OAC 14-37C-SCN		-4	0	0	-7	-4
28	OAC 14-39C-SCN		8	7	13	0	3
29	OAC 14-40C-SCN		-1	0	3	-3	2
30	ORC 1404N		-1	3	3	-6	0
Planted		5/9	5/5	5/21	5/26	5/18	6/2

2016 SCN PRELIMINARY TEST I

Lodging (score)

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410	3.5	2.8	3.0	1.0	1.5	2.5
2	IA1022 (SCN)	2.8	2.3	3.3	1.0	2.0	3.0
3	Sheyenne (0)	2.8	2.3	2.8	1.0	1.5	3.0
4	U11-917032	2.8	3.0	2.5	1.0	2.0	3.0
5	AR15-158003	3.0	2.8	2.8	.	2.0	2.5
6	AR15-158006	2.5	1.5	2.0	1.0	1.5	1.5
7	AR15-158038	3.3	2.3	2.0	1.0	1.5	2.0
8	AR15-158043	4.0	3.3	3.3	1.0	2.5	2.5
9	AR15-158057	2.5	2.8	2.5	1.0	2.0	2.0
10	AR15-158072	2.0	1.5	1.5	1.0	1.5	1.5
11	M10-176042	3.0	2.5	2.5	1.0	2.0	1.5
12	M10-208034	3.5	3.0	2.8	1.0	2.0	2.5
13	M10-254090	3.0	3.3	4.0	1.0	2.0	3.5
14	M11-108030	3.0	3.3	2.8	1.0	2.0	2.5
15	M11-108079	2.8	2.3	3.5	1.0	2.0	2.0
16	M11-108083	2.5	2.5	2.5	1.0	2.0	2.0
17	M11-117005	3.8	3.3	4.0	1.0	2.5	3.0
18	M11-125033	2.5	2.3	2.3	1.0	2.0	1.5
19	M11-125046	3.0	2.8	3.0	1.0	2.0	2.5
20	M11-125077	3.3	3.0	3.5	1.0	2.5	3.0
21	MSC10-559061	3.5	3.8	3.5	1.0	3.0	3.0
22	MSC10-567015	3.3	2.8	2.5	1.0	2.0	2.0
23	MSC10-578011	3.0	2.0	2.8	1.0	2.0	2.0
24	MSC10-578025	2.5	2.0	2.0	1.0	2.0	2.0
25	MSC10-578046	2.5	2.3	2.3	1.0	2.0	1.5
26	OAC 14-36C-SCN	3.8	3.8	4.0	1.0	3.0	4.0
27	OAC 14-37C-SCN	3.3	2.8	3.0	1.0	2.0	3.0
28	OAC 14-39C-SCN	2.8	3.3	3.5	1.0	2.0	3.0
29	OAC 14-40C-SCN	2.8	2.5	2.5	1.0	2.0	2.5
30	ORC 1404N	4.0	2.8	3.5	1.0	2.5	2.5

2016 SCN PRELIMINARY TEST I

Height (inches)

		Arlington IA		Mason City IA		Urbana IL		Fairfax MN		Lamberton MN		Waseca MN	
SCN HG Type		2.5.7		2.3.5.6.7		2.5.7		1.2.5.7		I		2.5.7	
Strain													
1	MN1410	33		36		38		35		31		34	
2	IA1022 (SCN)	33		38		35		38		36		34	
3	Sheyenne (0)	29		30		37		34		28		31	
4	U11-917032	34		35		35		32		31		27	
5	AR15-158003	39		39		39		41		42		39	
6	AR15-158006	33		35		35		36		34		30	
7	AR15-158038	38		41		38		39		37		33	
8	AR15-158043	36		43		37		41		42		39	
9	AR15-158057	35		40		36		39		40		41	
10	AR15-158072	26		32		34		31		28		34	
11	M10-176042	28		32		37		40		32		35	
12	M10-208034	30		32		33		33		28		31	
13	M10-254090	32		39		44		39		37		41	
14	M11-108030	31		35		42		36		30		37	
15	M11-108079	38		41		40		41		42		41	
16	M11-108083	31		32		35		30		30		32	
17	M11-117005	30		34		36		34		32		33	
18	M11-125033	27		32		34		32		29		30	
19	M11-125046	29		36		38		35		30		34	
20	M11-125077	31		35		35		37		34		35	
21	MSC10-559061	39		39		41		41		42		42	
22	MSC10-567015	31		36		35		35		28		36	
23	MSC10-578011	32		37		40		34		31		32	
24	MSC10-578025	37		39		38		38		37		36	
25	MSC10-578046	30		31		36		29		31		32	
26	OAC 14-36C-SCN	27		33		38		38		33		37	
27	OAC 14-37C-SCN	35		37		39		40		37		41	
28	OAC 14-39C-SCN	32		39		38		34		30		35	
29	OAC 14-40C-SCN	28		32		36		33		32		33	
30	ORC 1404N	36		38		40		38		37		41	

2016 SCN PRELIMINARY TEST I

Seed Quality (score)

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410		2.0	3.0	2.0	2.0	1.0
2	IA1022 (SCN)		2.0	1.0	1.0	1.5	2.0
3	Sheyenne (0)		2.0	4.0	4.0	2.0	2.0
4	U11-917032		2.0	2.0	1.5	2.0	1.0
5	AR15-158003		1.0	1.0	1.0	2.5	1.5
6	AR15-158006		2.0	3.0	1.0	1.5	1.0
7	AR15-158038		2.0	2.0	1.0	2.0	1.5
8	AR15-158043		2.0	3.0	1.0	1.5	1.0
9	AR15-158057		1.0	2.0	1.5	1.5	1.0
10	AR15-158072		3.0	2.0	1.5	1.5	1.0
11	M10-176042		2.0	2.0	2.0	2.0	1.5
12	M10-208034		3.0	2.0	2.0	2.5	1.5
13	M10-254090		1.0	2.0	2.5	2.0	1.5
14	M11-108030		3.0	2.0	2.0	2.5	1.5
15	M11-108079		2.0	3.0	2.5	3.5	2.0
16	M11-108083		1.0	2.0	2.0	3.0	1.5
17	M11-117005		2.0	2.0	1.5	2.0	1.5
18	M11-125033		1.0	2.0	2.0	1.5	2.0
19	M11-125046		1.0	2.0	1.5	2.5	1.0
20	M11-125077		2.0	1.0	1.5	2.0	1.0
21	MSC10-559061		2.0	3.0	1.0	2.5	1.5
22	MSC10-567015		2.0	2.0	1.0	2.0	1.0
23	MSC10-578011		1.0	3.0	1.5	2.0	1.5
24	MSC10-578025		2.0	2.0	1.5	1.0	1.0
25	MSC10-578046		4.0	2.0	2.5	2.5	1.5
26	OAC 14-36C-SCN		2.0	2.0	1.5	2.0	1.5
27	OAC 14-37C-SCN		2.0	2.0	1.0	2.5	1.0
28	OAC 14-39C-SCN		2.0	2.0	2.0	2.5	1.5
29	OAC 14-40C-SCN		1.0	2.0	1.5	2.0	1.5
30	ORC 1404N		2.0	2.0	1.0	2.0	1.0

2016 SCN PRELIMINARY TEST I

Seed Weight (g/100)

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410		14.4	15.5	17.0	18.1	15.9
2	IA1022 (SCN)		14.9	14.2	17.3	17.4	15.6
3	Sheyenne (0)		15.6	17.8	15.0	17.2	15.8
4	U11-917032		17.5	16.1	16.2	15.8	16.6
5	AR15-158003		17.4	17.9	18.7	17.5	18.1
6	AR15-158006		15.3	17.2	18.7	19.0	17.2
7	AR15-158038		15.2	15.4	16.8	17.4	15.2
8	AR15-158043		17.0	15.4	17.3	17.9	16.2
9	AR15-158057		16.9	17.4	19.2	18.9	18.2
10	AR15-158072		14.5	18.3	17.9	18.3	18.0
11	M10-176042		16.3	15.7	15.0	16.1	14.6
12	M10-208034		19.1	18.0	16.8	14.8	16.0
13	M10-254090		16.4	20.5	20.7	15.8	18.5
14	M11-108030		17.6	17.9	17.0	16.3	17.6
15	M11-108079		16.4	19.3	19.1	19.7	18.2
16	M11-108083		14.3	16.2	16.7	16.6	16.0
17	M11-117005		13.9	14.7	16.6	15.4	13.5
18	M11-125033		14.6	14.9	14.8	14.3	14.2
19	M11-125046		12.8	16.6	15.4	15.5	14.3
20	M11-125077		12.8	15.3	15.4	17.8	13.9
21	MSC10-559061		15.0	15.7	14.8	16.6	14.2
22	MSC10-567015		15.1	17.5	16.2	15.1	15.7
23	MSC10-578011		16.3	17.7	15.6	15.8	16.0
24	MSC10-578025		15.6	17.9	18.7	16.7	17.8
25	MSC10-578046		18.8	18.5	16.5	17.6	15.7
26	OAC 14-36C-SCN		18.0	18.7	18.1	17.1	17.6
27	OAC 14-37C-SCN		15.7	18.2	18.6	16.3	19.1
28	OAC 14-39C-SCN		16.0	16.0	16.2	17.3	16.5
29	OAC 14-40C-SCN		17.5	16.4	16.7	17.0	17.3
30	ORC 1404N		15.4	19.1	19.1	17.5	17.6

2016 SCN PRELIMINARY TEST I

Protein (%)							
		Arlington IA	Mason City IA	Urbana IL	Fairfax MN	Lamberton MN	Waseca MN
SCN HG Type		2.5.7	2.3.5.6.7	2.5.7	1.2.5.7	I	2.5.7
Strain							
1	MN1410		35.8		36.4	35.5	33.8
2	IA1022 (SCN)		31.0		33.1	33.0	30.0
3	Sheyenne (0)		34.2		36.3	33.8	32.2
4	U11-917032		32.1		34.3	33.8	30.7
5	AR15-158003		34.8		36.1	34.1	33.3
6	AR15-158006		32.2		35.3	33.8	31.1
7	AR15-158038		32.0		34.0	33.0	30.1
8	AR15-158043		34.0		35.4	37.5	33.4
9	AR15-158057		32.8		35.7	35.6	33.9
10	AR15-158072		32.1		34.7	34.0	32.7
11	M10-176042		29.2		33.4	32.6	32.3
12	M10-208034		35.9		36.2	36.3	34.2
13	M10-254090		36.4		35.4	37.3	34.4
14	M11-108030		33.5		36.0	36.3	34.1
15	M11-108079		35.0		35.5	35.6	32.9
16	M11-108083		35.3		35.0	35.9	32.5
17	M11-117005		33.6		34.5	35.3	25.9
18	M11-125033		36.1		35.6	35.3	32.8
19	M11-125046		33.9		34.8	35.7	33.1
20	M11-125077		36.6		37.4	35.6	35.9
21	MSC10-559061		31.7		34.8	36.3	32.8
22	MSC10-567015		36.5		34.7	35.6	33.5
23	MSC10-578011		33.3		35.3	36.0	33.5
24	MSC10-578025		35.0		34.5	36.4	32.7
25	MSC10-578046		32.2		34.9	34.0	30.9
26	OAC 14-36C-SCN		35.0		35.0	34.5	32.1
27	OAC 14-37C-SCN		33.7		34.5	35.6	32.7
28	OAC 14-39C-SCN		29.6		34.0	35.9	30.8
29	OAC 14-40C-SCN		29.1		33.2	34.1	32.0
30	ORC 1404N		33.2		35.1	35.4	33.8

2016 SCN PRELIMINARY TEST I

Oil (%)

		Arlington IA 2.5.7	Mason City IA 2.3.5.6.7	Urbana IL 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7
SCN HG Type							
Strain							
1	MN1410		17.2		19.3	17.8	19.4
2	IA1022 (SCN)		19.2		20.4	19.0	22.1
3	Sheyenne (0)		17.7		20.0	19.3	20.2
4	U11-917032		18.3		20.0	19.1	19.5
5	AR15-158003		16.5		18.7	18.9	19.9
6	AR15-158006		18.8		18.9	17.8	19.6
7	AR15-158038		18.2		18.4	19.0	19.8
8	AR15-158043		17.3		18.4	17.0	19.7
9	AR15-158057		19.0		19.0	17.6	18.4
10	AR15-158072		19.1		20.6	18.3	20.9
11	M10-176042		19.2		19.8	18.4	20.6
12	M10-208034		16.3		19.8	17.9	20.2
13	M10-254090		17.2		19.0	17.0	19.7
14	M11-108030		19.4		19.8	19.1	20.6
15	M11-108079		18.7		20.1	18.8	21.2
16	M11-108083		18.4		19.8	19.1	21.2
17	M11-117005		18.1		19.3	18.4	20.9
18	M11-125033		17.6		19.6	18.9	20.5
19	M11-125046		18.3		20.5	18.4	20.8
20	M11-125077		16.8		19.4	17.7	18.9
21	MSC10-559061		18.7		19.0	17.8	20.8
22	MSC10-567015		16.1		19.4	18.2	19.9
23	MSC10-578011		17.9		19.5	18.9	19.8
24	MSC10-578025		17.0		19.1	18.1	19.7
25	MSC10-578046		18.7		19.9	19.2	20.0
26	OAC 14-36C-SCN		17.6		20.0	19.3	21.2
27	OAC 14-37C-SCN		17.9		19.6	19.1	20.4
28	OAC 14-39C-SCN		19.2		19.8	17.9	21.2
29	OAC 14-40C-SCN		18.9		18.7	18.6	20.1
30	ORC 1404N		16.4		18.0	17.9	19.3

2016 SCN UNIFORM TEST II

Strain		Descriptive code	Parentage	Previous testing
1	IA2102	WGy	A04-545045 x AgriPro 98180-A01-06131	4
2	IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024	8
3	LD02-4485	PGbf	M90-184111 x IA3010	11
4	U11-920017	PLtbr	HS5-3417 x LD02-4485	15 UT II
5	AR14-247080	PT+Ltbr	AR07-176090 x (PI 606749 x AR03-161009)	15 SCN P II
6	E12076	WGy	LD01-7323 x U01-390489	1
7	E13100	WGy	LD01-7323 x U01-390489	15 SCN P II
8	E13212	PGibl	E06161 x E07051	15 SCN P II
9	E13370	WTbl	E07051 x E10928	15 SCN P II
10	LD10-10198	PGy	LD05-3230 x LD00-3309	2
11	LD12-459	PGibl	LD02-4485 x LD06-7620	15 SCN P II
12	LD12-6010a	WLtbl	Syngenta 06NB204846 x LD09-15464	15 SCN P II
13	M08-365100	PGibl	M90-184111 x U03-100612	15 SCN U I
14	M09-269012	WTy	MN0908CN x LD02-4485	15 SCN P II
15	M09-278112	PGy	M90-184111 x E06936	15 SCN P II
16	M09-281011	PTy	MN1701CN x LD02-4485	15 SCN P II
17	M09-281100	WTy	MN1701CN x LD02-4485	15 SCN P II
18	MSC09-777143	WGbf+y	IA2073 x PI438489B	15 SCN P II
19	ORC 8412N	PGy	HD Goshen x A04-543037	15 SCN P II
20	U11-911079	PLtbl	LD02-4485 x U03-300134	1

2016 SCN UNIFORM TEST II

Strain		Gen comp	SCN res source	Traits
1	IA2102	F4	None	
2	IA1022 (SCN)	F5	PI 88788	
3	LD02-4485	F5	PI 88788	
4	U11-920017	F6	None	Rps res.
5	AR14-247080	F3	PI 606749,507354,88788	
6	E12076	F5	PI 88788	
7	E13100	F5	PI 88788	
8	E13212	F5	PI 88788	
9	E13370	F5	PI 88788	
10	LD10-10198	F5	PI 88788	
11	LD12-459	F5	PI 88788	
12	LD12-6010a	F5	PI 88788	Rag 2
13	M08-365100	F5	PI 88788	
14	M09-269012	F5	PI 88788,209332	
15	M09-278112	F5	PI 88788	
16	M09-281011	F5	PI 88788,209332	
17	M09-281100	F5	PI 88788,209332	
18	MSC09-777143	F5	PI 438489B	1% linolenic
19	ORC 8412N	F5	PI 88788	
20	U11-911079	F6	PI 88788	

2016 SCN UNIFORM TEST II

	IL SCN screen				ISU IDC	MN IDC	SIU SDS
	HG Type 0		HG Type 2.5.7		Bruner	Danvers	Monmouth
Strain	FI	rating	FI	rating	score	score	DX
1 IA2102	18	R	67	NR	2.5	3.0	1.2
2 IA1022 (SCN)	26	MR	54	LR	2.0	3.8	3.3
3 LD02-4485	9	HR	46	LR	1.8	4.0	14.2
4 U11-920017	74	NR	49	LR	1.5	4.5	0.4
5 AR14-247080	0	HR	1	HR	4.0	4.0	5.2
6 E12076	15	R	74	NR	3.8	5.0	0.3
7 E13100	11	R	45	LR	3.3	4.3	0.3
8 E13212	18	R	70	NR	3.0	4.0	12.2
9 E13370	72	NR	80	NR	3.3	4.0	2.7
10 LD10-10198	6	HR	61	NR	2.5	4.3	1.2
11 LD12-459	4	HR	58	LR	2.3	4.3	6.7
12 LD12-6010a	36	MR	65	NR	3.0	5.0	1.8
13 M08-365100	13	R	73	NR	3.8	4.5	3.4
14 M09-269012	9	HR	61	NR	3.0	4.8	0.0
15 M09-278112	4	HR	48	LR	3.0	3.0	0.8
16 M09-281011	5	HR	58	LR	2.0	3.0	3.9
17 M09-281100	7	HR	70	NR	2.5	4.3	2.0
18 MSC09-777143	3	HR	57	LR	1.3	2.3	1.4
19 ORC 8412N	14	R	56	LR	2.3	4.0	0.0
20 U11-911079	6	HR	52	LR	3.0	4.3	0.7

Ave. 2.4 Ave. 4.3 sus 1.8
LSD 2.2 LSD 1.1 Res 1.0
LSD 11.2

2016 SCN UNIFORM TEST II

Summary

Strain		Yield									Seed			
		All		Infested		Non-infested		Maturity date	Lodging score	Height inches	quality score	weight g/100	protein @13%	oil @13%
		bu/a	rank	bu/a	rank	bu/a	rank							
Locations		14		12		2		11	13	13	12	12	9	9
1	IA2102	63.4	5	63.0	5	65.5	7	9/25	2.5	37	1.7	17.1	34.4	18.8
2	IA1022 (SCN)	52.9	20	53.9	19	47.2	20	-5	2.1	35	1.7	15.8	33.1	20.2
3	LD02-4485	65.3	2	65.6	2	63.5	10	0	2.2	38	1.8	15.6	32.4	19.5
4	U11-920017	54.5	19	52.3	20	67.7	3	1	1.9	34	1.9	17.0	32.5	19.9
5	AR14-247080	63.3	6	62.9	6	66.1	6	4	3.0	48	1.7	15.3	34.7	18.3
6	E12076	56.0	18	55.5	17	59.3	16	4	2.0	34	1.9	17.0	34.3	18.8
7	E13100	57.3	16	56.8	16	60.6	15	-2	2.3	38	1.9	19.4	34.2	19.7
8	E13212	58.0	15	57.9	15	58.7	17	1	2.1	33	2.1	19.1	35.3	19.4
9	E13370	56.6	17	55.2	18	64.9	8	0	2.0	34	1.6	15.9	34.9	18.7
10	LD10-10198	63.0	7	62.0	8	69.5	2	1	1.9	37	1.6	15.2	34.3	18.6
11	LD12-459	69.7	1	68.5	1	77.4	1	3	2.1	37	2.3	15.7	33.5	18.5
12	LD12-6010a	61.4	10	60.5	11	67.3	5	-2	2.1	35	1.4	15.8	35.1	18.6
13	M08-365100	60.3	11	60.9	10	56.8	18	-6	2.2	34	1.6	16.8	34.0	20.2
14	M09-269012	62.6	8	62.9	6	61.1	14	-3	2.2	38	1.7	14.2	33.5	19.9
15	M09-278112	59.0	13	58.6	14	61.6	12	-7	1.7	34	1.5	15.6	33.1	19.7
16	M09-281011	62.0	9	61.7	9	63.5	10	-2	1.9	36	1.6	15.7	32.7	19.6
17	M09-281100	58.9	14	60.4	12	50.1	19	-4	2.3	37	1.7	14.9	33.7	19.6
18	MSC09-777143	64.0	4	63.9	4	64.6	9	0	2.3	37	2.3	15.6	32.4	20.1
19	ORC 8412N	60.2	12	60.0	13	61.6	13	-3	2.1	36	1.4	18.7	33.9	19.7
20	U11-911079	65.2	3	64.8	3	67.4	4	-2	1.4	38	1.2	13.8	33.3	18.8
Mean		60.7		60.4		62.7		23.9	2.1	36.5	1.7	16.2	33.8	19.3
LSD(.05)		3.6		3.8		9.1		1.1	0.2	1.6				
C.V. %		13.9		13.7		12.6		9.7	24.0	9.6				
Replications		35		30		5		28	32	32				

2016 SCN UNIFORM TEST II

2 Year Summary

Strain		Yield								Seed				
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank				score	g/100	@13%	@13%
Locations		27		25		2		22	24	25	24	24	20	20
1	IA2102	62.1	4	61.7	4	65.5	3	9/26	2.2	36	1.6	17	34.5	18.8
2	IA1022 (SCN)	55.3	6	55.8	6	47.2	6	-5	1.9	34	1.7	16	33.0	20.3
3	LD02-4485	64.4	2	64.3	1	63.5	4	-1	1.9	36	1.7	15	32.5	19.4
6	E12076	57.7	5	57.4	5	59.3	5	6	2.1	33	1.7	17	34.5	18.8
10	LD10-10198	64.6	1	64.1	2	69.5	1	2	1.6	36	1.6	15	34.2	18.5
20	U11-911079	63.5	3	63.0	3	67.4	2	-1	1.4	35	1.3	14	33.6	18.7

2016 SCN UNIFORM TEST II

Yield (bu/a)								
		Boone IA	Moorhead IA	Urbana IL	West Lafayette IN	Decatur MI	Fairfax MN	Lamberton MN
SCN HG Type		1.2.5.7	2.5.7	2.5.7	I	2.5.7	1.2.5.7	I
Strain								
1	IA2102	73.2	64.3	75.5	63.8	52.3	55.2	60.6
2	IA1022 (SCN)	71.3	46.2	67.4	54.0	34.4	62.2	62.3
3	LD02-4485	71.4	67.8	81.3	66.6	57.1	55.0	66.2
4	U11-920017	77.3	52.9	70.1	57.3	36.7	52.0	32.7
5	AR14-247080	69.0	63.6	67.8	64.4	71.3	53.8	45.4
6	E12076	69.7	63.3	64.9	56.4	30.6	52.8	54.5
7	E13100	74.1	70.7	59.1	62.0	46.7	55.4	45.3
8	E13212	72.4	59.0	76.0	65.2	45.2	49.8	56.4
9	E13370	76.1	57.8	66.8	57.7	41.1	50.1	50.5
10	LD10-10198	69.9	60.2	82.0	60.3	45.0	62.0	49.1
11	LD12-459	76.4	68.2	86.6	69.6	64.7	62.4	69.1
12	LD12-6010a	68.2	59.9	75.8	61.3	44.9	56.8	54.4
13	M08-365100	71.6	71.4	66.7	60.9	60.0	48.3	62.0
14	M09-269012	72.1	74.4	72.6	63.1	53.7	54.9	63.7
15	M09-278112	69.4	62.1	73.7	62.4	56.9	39.0	56.2
16	M09-281011	65.8	64.6	75.5	58.7	59.4	58.7	55.6
17	M09-281100	73.3	68.4	71.1	58.5	64.9	56.7	53.5
18	MSC09-777143	74.6	67.9	74.8	63.1	64.3	52.2	70.2
19	ORC 8412N	76.9	69.0	71.2	63.1	56.5	58.1	56.3
20	U11-911079	70.5	60.8	84.8	69.9	65.9	59.9	54.6
Average		72.2	63.6	73.2	61.9	52.6	54.8	55.9
LSD(.05)		6.0	7.3	5.8	7.8	17.2	11.4	18.9
C.V. %		4.0	5.5	3.8	8.0	12.9	12.5	20.5
Replications		2	2	2	3	2	3	3
Row width (in.)		30	30	30	30	30	30	30

2016 SCN UNIFORM TEST II

Yield (bu/a)

		Waseca MN 2.5.7	Auburn NE 2.5.7	Columbus NE 0	Chatham ON 2.5.7	Harrow ON 2.5.7	Pontiac IL NI	Hoytville OH NI
SCN HG Type								
Strain								
1	IA2102	60.3	69.3	65.1	70.3	53.7	73.6	61.3
2	IA1022 (SCN)	58.5	45.9	37.4	56.5	47.9	64.0	34.2
3	LD02-4485	59.8	69.2	76.0	64.7	58.7	71.5	59.3
4	U11-920017	56.9	62.8	46.0	41.9	38.3	77.7	61.4
5	AR14-247080	47.4	72.3	69.4	66.9	63.2	70.8	65.3
6	E12076	55.4	53.4	42.7	61.5	59.1	61.8	60.5
7	E13100	58.5	57.5	45.9	59.8	50.6	64.5	60.5
8	E13212	58.1	64.8	41.9	60.5	42.0	70.9	50.2
9	E13370	57.6	54.9	48.2	46.5	46.9	69.5	64.2
10	LD10-10198	65.9	65.3	55.3	67.1	61.6	76.4	66.3
11	LD12-459	59.4	70.4	64.2	69.5	74.6	84.4	74.2
12	LD12-6010a	62.7	72.8	46.0	64.1	55.9	73.2	65.1
13	M08-365100	53.0	58.2	56.6	71.6	48.5	62.5	54.9
14	M09-269012	53.0	68.0	52.6	62.7	57.1	69.8	56.1
15	M09-278112	58.0	51.8	59.3	62.7	49.6	68.1	59.0
16	M09-281011	51.8	63.2	65.9	63.6	56.0	72.1	58.5
17	M09-281100	61.9	63.8	48.3	65.6	44.5	67.0	37.0
18	MSC09-777143	60.4	57.4	68.4	65.0	54.7	66.4	66.5
19	ORC 8412N	58.8	44.1	49.0	61.5	51.4	71.4	55.4
20	U11-911079	59.4	72.9	62.9	67.7	54.5	75.3	63.4
Average		57.8	61.9	55.1	62.5	53.4	70.5	58.7
LSD(.05)		12.8	17.8	29.8	11.4	13.0	4.9	15.5
C.V. %		12.3	11.7	22.0	9.2	12.2	3.3	16.0
Replications		3	2	2	3	3	2	3
Row width (in.)		30	30	30	24	24	30	30

2016 SCN UNIFORM TEST II

Yield (rank)								
		Boone	Moorhead	Urbana	West	Decatur	Fairfax	Lamberton
		IA	IA	IL	Lafayette	MI	MN	MN
SCN HG Type		1.2.5.7	2.5.7	2.5.7	IN	2.5.7	1.2.5.7	I
Strain								
1	IA2102	8	10	7	6	12	10	7
2	IA1022 (SCN)	13	20	16	20	19	2	5
3	LD02-4485	12	8	4	3	8	11	3
4	U11-920017	1	19	14	18	18	16	20
5	AR14-247080	18	11	15	5	1	13	18
6	E12076	16	12	19	19	20	14	13
7	E13100	6	3	20	11	13	9	19
8	E13212	9	17	5	4	14	18	8
9	E13370	4	18	17	17	17	17	16
10	LD10-10198	15	15	3	14	15	3	17
11	LD12-459	3	6	1	2	4	1	2
12	LD12-6010a	19	16	6	12	16	7	14
13	M08-365100	11	2	18	13	6	19	6
14	M09-269012	10	1	11	7	11	12	4
15	M09-278112	17	13	10	10	9	20	10
16	M09-281011	20	9	7	15	7	5	11
17	M09-281100	7	5	13	16	3	8	15
18	MSC09-777143	5	7	9	7	5	15	1
19	ORC 8412N	2	4	12	7	10	6	9
20	U11-911079	14	14	2	1	2	4	12

2016 SCN UNIFORM TEST II

Yield (rank)

		Waseca	Auburn	Columbus	Chatham	Harrow	Pontiac	Hoytville
		MN	NE	NE	ON	ON	IL	OH
		2.5.7	2.5.7	0	2.5.7	2.5.7	NI	NI
SCN HG Type								
Strain								
1	IA2102	5	5	5	2	11	5	9
2	IA1022 (SCN)	11	19	20	18	16	18	19
3	LD02-4485	6	6	1	9	5	8	11
4	U11-920017	15	12	16	20	20	2	8
5	AR14-247080	20	3	2	6	2	11	4
6	E12076	16	17	18	14	4	20	10
7	E13100	10	14	17	17	13	17	10
8	E13212	12	9	19	16	19	10	17
9	E13370	14	16	14	19	17	13	6
10	LD10-10198	1	8	10	5	3	3	3
11	LD12-459	7	4	6	3	1	1	1
12	LD12-6010a	2	2	16	10	8	6	5
13	M08-365100	17	13	9	1	15	19	16
14	M09-269012	18	7	11	13	6	12	14
15	M09-278112	13	18	8	12	14	14	12
16	M09-281011	19	11	4	11	7	7	13
17	M09-281100	3	10	13	7	18	15	18
18	MSC09-777143	4	15	3	8	9	16	2
19	ORC 8412N	9	20	12	15	12	9	15
20	U11-911079	8	1	7	4	10	4	7

2016 SCN UNIFORM TEST II

Maturity

		Maturity						
		Boone IA	Moorhead IA	Urbana IL	West Lafayette IN	Decatur MI	Fairfax MN	Lamberton MN
SCN HG Type		1.2.5.7	2.5.7	2.5.7	I	2.5.7	1.2.5.7	I
Strain								
1	IA2102	9/29		9/12	9/15		10/3	10/7
2	IA1022 (SCN)	-10		-6	-3		-3	-7
3	LD02-4485	-4		1	3		-1	0
4	U11-920017	1		2	1		2	0
5	AR14-247080	3		8	5		3	0
6	E12076	9		6	8		0	2
7	E13100	-5		1	2		-4	-5
8	E13212	-1		3	4		0	-1
9	E13370	1		0	2		-2	-4
10	LD10-10198	-3		2	0		3	2
11	LD12-459	6		6	3		2	1
12	LD12-6010a	-7		-3	-1		1	-4
13	M08-365100	-12		-8	-4		-2	-11
14	M09-269012	-6		-5	1		-4	-8
15	M09-278112	-8		-6	-3		-15	-16
16	M09-281011	-5		-1	0		0	-2
17	M09-281100	-8		-5	0		-2	-5
18	MSC09-777143	-2		1	2		2	2
19	ORC 8412N	-6		-3	-4		-2	-7
20	U11-911079	-4		0	1		-1	-4
Planted		5/17	5/16	5/21	5/22	5/23	5/26	5/18

2016 SCN UNIFORM TEST II

Maturity

		Waseca MN 2.5.7	Auburn NE 2.5.7	Columbus NE 0	Chatham ON 2.5.7	Harrow ON 2.5.7	Pontiac IL NI	Hoytville OH NI
SCN HG Type								
Strain								
1	IA2102	10/4		9/20	10/3	9/23	9/16	9/25
2	IA1022 (SCN)	-7		-6	-7	-3	-6	-1
3	LD02-4485	-2		-1	-1	1	-3	1
4	U11-920017	0		-2	-3	2	2	4
5	AR14-247080	4		2	3	6	6	9
6	E12076	3		-5	7	10	4	8
7	E13100	-5		-5	-1	0	-1	2
8	E13212	0		-6	3	3	0	4
9	E13370	-2		-3	-3	5	-2	2
10	LD10-10198	-1		-2	1	2	-1	1
11	LD12-459	1		0	4	6	3	5
12	LD12-6010a	-4		-3	-2	2	-4	3
13	M08-365100	-8		-9	-6	-5	-6	-3
14	M09-269012	-6		1	-5	-4	-6	0
15	M09-278112	-16		-5	-3	-2	-6	0
16	M09-281011	-7		-1	-1	1	-5	1
17	M09-281100	-8		-5	-3	-5	-4	-3
18	MSC09-777143	-3		-2	-1	3	-5	3
19	ORC 8412N	-5		-2	-5	-3	-6	1
20	U11-911079	-5		-2	-3	1	-6	0
Planted		6/2	6/6	5/19	6/3	5/27	5/20	5/28

2016 SCN UNIFORM TEST II

Lodging (score)

		Boone	Moorhead	Urbana	West	Decatur	Fairfax	Lamberton
		IA	IA	IL	Lafayette	MI	MN	MN
		1.2.5.7	2.5.7	2.5.7	IN	2.5.7	1.2.5.7	I
SCN HG Type								
Strain								
1	IA2102	2.8	4.3	3.5	4.7	1.0	2.0	2.7
2	IA1022 (SCN)	2.8	3.8	3.5	2.3	1.0	1.0	2.0
3	LD02-4485	2.5	3.5	2.8	3.0	1.0	2.0	2.7
4	U11-920017	2.5	3.3	2.3	2.3	1.0	1.0	1.3
5	AR14-247080	3.5	4.0	3.8	3.5	3.0	3.0	3.3
6	E12076	2.3	2.5	3.0	1.8	1.0	1.0	2.3
7	E13100	3.0	3.8	3.8	2.7	1.0	1.0	1.7
8	E13212	2.5	3.5	2.8	2.7	1.0	2.0	2.0
9	E13370	2.8	3.0	2.8	2.0	1.0	1.0	2.0
10	LD10-10198	2.5	3.5	1.8	1.8	1.0	1.0	2.3
11	LD12-459	2.8	3.8	2.3	3.5	1.0	1.0	2.3
12	LD12-6010a	2.3	4.0	1.5	3.8	1.0	1.0	1.7
13	M08-365100	2.5	3.5	3.0	3.3	2.0	1.0	1.3
14	M09-269012	3.0	3.0	2.5	4.2	1.0	2.0	2.0
15	M09-278112	2.3	3.0	2.0	1.7	1.0	1.0	2.3
16	M09-281011	2.5	3.0	2.0	1.8	1.0	2.0	2.3
17	M09-281100	3.0	3.3	3.3	3.0	1.0	2.0	2.3
18	MSC09-777143	2.8	3.5	3.0	2.7	1.0	3.0	2.3
19	ORC 8412N	2.5	3.5	2.8	2.7	1.0	1.0	2.0
20	U11-911079	1.8	2.5	1.5	1.5	1.0	1.0	1.3

2016 SCN UNIFORM TEST II

Lodging (score)

		Waseca	Auburn	Columbus	Chatham	Harrow	Pontiac	Hoytville
		MN	NE	NE	ON	ON	IL	OH
		2.5.7	2.5.7	0	2.5.7	2.5.7	NI	NI
SCN HG Type								
Strain								
1	IA2102	3.0		2.0	1.0	1.0	3.0	1.0
2	IA1022 (SCN)	2.3		2.0	1.0	1.0	3.0	1.0
3	LD02-4485	3.0		2.5	1.2	1.0	2.5	1.0
4	U11-920017	2.7		2.5	1.0	1.0	2.5	1.0
5	AR14-247080	3.3		3.5	1.7	1.0	3.5	2.0
6	E12076	3.0		2.0	2.0	1.0	3.3	1.0
7	E13100	2.3		3.5	1.3	1.0	3.5	1.0
8	E13212	3.0		2.0	1.3	1.0	2.8	1.0
9	E13370	3.0		1.5	1.3	1.0	2.8	1.0
10	LD10-10198	2.7		1.5	1.2	1.0	2.0	1.0
11	LD12-459	3.0		1.5	1.8	1.0	3.0	1.0
12	LD12-6010a	3.0		3.0	1.0	1.0	1.5	1.0
13	M08-365100	2.7		2.0	1.2	1.0	3.5	1.0
14	M09-269012	3.0		1.5	1.3	1.0	3.5	1.0
15	M09-278112	2.7		1.0	1.0	1.0	1.8	1.0
16	M09-281011	3.0		1.0	1.2	1.0	2.3	1.0
17	M09-281100	3.0		1.5	1.7	1.0	3.8	1.0
18	MSC09-777143	3.0		2.5	1.0	1.0	3.5	1.0
19	ORC 8412N	3.0		1.5	1.2	1.0	3.0	1.0
20	U11-911079	2.0		1.0	1.0	1.0	1.5	1.0

2016 SCN UNIFORM TEST II

Height (inches)

		Height (inches)						
		Boone	Moorhead	Urbana	West	Decatur	Fairfax	Lamberton
		IA	IA	IL	Lafayette	MI	MN	MN
		1.2.5.7	2.5.7	2.5.7	IN	2.5.7	1.2.5.7	I
SCN HG Type								
Strain								
1	IA2102	45	42	40	43	33	34	34
2	IA1022 (SCN)	41	44	41	37	27	31	38
3	LD02-4485	45	48	38	41	33	39	33
4	U11-920017	41	44	39	39	28	35	27
5	AR14-247080	56	57	48	53	46	41	49
6	E12076	38	36	34	37	25	35	30
7	E13100	45	48	40	44	31	42	37
8	E13212	37	40	37	35	26	35	28
9	E13370	41	38	36	38	31	39	28
10	LD10-10198	41	48	38	39	28	43	39
11	LD12-459	43	41	38	40	32	41	34
12	LD12-6010a	40	43	37	37	25	34	33
13	M08-365100	39	40	39	38	29	35	32
14	M09-269012	51	49	38	45	29	38	32
15	M09-278112	39	42	37	36	28	33	31
16	M09-281011	38	47	39	40	32	33	36
17	M09-281100	43	39	39	41	32	40	40
18	MSC09-777143	37	47	39	41	32	28	34
19	ORC 8412N	42	46	39	41	31	35	35
20	U11-911079	44	47	42	42	34	37	35

2016 SCN UNIFORM TEST II

Height (inches)

		Waseca	Auburn	Columbus	Chatham	Harrow	Pontiac	Hoytville
		MN	NE	NE	ON	ON	IL	OH
		2.5.7	2.5.7	0	2.5.7	2.5.7	NI	NI
SCN HG Type	Strain							
1	IA2102	41		34	39	26	43	29
2	IA1022 (SCN)	39		28	38	23	40	23
3	LD02-4485	44		34	42	28	42	29
4	U11-920017	38		31	31	23	43	24
5	AR14-247080	56		41	47	34	54	40
6	E12076	38		29	39	26	43	28
7	E13100	46		35	41	23	43	27
8	E13212	37		32	35	22	38	24
9	E13370	41		26	33	23	38	26
10	LD10-10198	44		30	39	25	41	28
11	LD12-459	43		33	41	26	43	27
12	LD12-6010a	40		31	36	26	38	26
13	M08-365100	44		30	39	26	36	23
14	M09-269012	45		28	42	26	49	27
15	M09-278112	42		28	35	24	38	23
16	M09-281011	41		28	37	26	42	23
17	M09-281100	43		31	40	25	47	27
18	MSC09-777143	41		37	39	27	42	28
19	ORC 8412N	43		28	38	26	40	26
20	U11-911079	44		30	41	27	43	25

2016 SCN UNIFORM TEST II

Seed Quality (score)

		Boone	Moorhead	Urbana	West	Decatur	Fairfax	Lamberton
		IA	IA	IL	Lafayette	MI	MN	MN
		1.2.5.7	2.5.7	2.5.7	IN	2.5.7	1.2.5.7	I
SCN HG Type								
Strain								
1	IA2102	1.0		2.0	3.0		1.3	1.7
2	IA1022 (SCN)	1.0		2.0	2.0		1.3	2.0
3	LD02-4485	1.0		2.0	3.0		1.3	1.0
4	U11-920017	2.0		3.0	3.0		1.3	1.7
5	AR14-247080	1.0		2.0	2.0		1.3	1.7
6	E12076	1.0		3.0	2.0		1.3	2.0
7	E13100	1.0		3.0	4.0		1.0	1.3
8	E13212	2.0		2.0	2.0		1.7	2.3
9	E13370	2.0		1.0	1.0		1.3	1.0
10	LD10-10198	2.0		2.0	1.0		1.3	2.0
11	LD12-459	3.0		3.0	3.0		1.3	2.3
12	LD12-6010a	2.0		1.0	1.0		1.0	1.7
13	M08-365100	1.0		2.0	1.5		1.0	1.0
14	M09-269012	2.0		2.0	2.0		1.0	1.0
15	M09-278112	1.0		2.0	1.0		1.7	1.3
16	M09-281011	2.0		2.0	2.0		1.3	1.7
17	M09-281100	2.0		2.0	2.0		1.3	2.3
18	MSC09-777143	2.0		3.0	3.0		1.3	2.0
19	ORC 8412N	1.0		2.0	1.0		1.7	2.0
20	U11-911079	1.0		2.0	1.0		1.3	1.1

2016 SCN UNIFORM TEST II

Seed Quality (score)

		Waseca MN 2.5.7	Auburn NE 2.5.7	Columbus NE 0	Chatham ON 2.5.7	Harrow ON 2.5.7	Pontiac IL NI	Hoytville OH NI
SCN HG Type								
Strain								
1	IA2102	1.7	2.0	1.0	1.3	2.0	2.0	1.0
2	IA1022 (SCN)	1.3	2.0	1.0	1.0	2.7	2.0	2.0
3	LD02-4485	1.7	2.0	2.0	1.0	2.7	2.0	2.0
4	U11-920017	1.3	2.0	2.0	1.3	1.7	2.0	1.0
5	AR14-247080	2.3	2.0	2.0	1.0	2.0	2.0	1.0
6	E12076	2.0	2.0	2.0	1.0	2.0	2.0	2.0
7	E13100	1.0	2.0	2.0	1.3	2.3	2.0	2.0
8	E13212	3.0	2.0	2.0	1.7	2.7	2.0	2.0
9	E13370	1.3	2.0	2.0	1.0	2.0	2.0	2.0
10	LD10-10198	1.3	2.0	1.0	1.3	2.0	2.0	1.0
11	LD12-459	2.0	2.0	2.0	2.0	2.7	2.0	2.0
12	LD12-6010a	1.0	2.0	1.0	1.0	1.7	2.0	2.0
13	M08-365100	1.0	2.0	2.0	1.0	3.0	2.0	2.0
14	M09-269012	1.7	2.0	1.0	1.3	2.0	2.0	2.0
15	M09-278112	1.7	2.0	1.0	1.0	2.7	2.0	1.0
16	M09-281011	1.7	1.0	1.0	1.0	2.3	2.0	1.0
17	M09-281100	1.7	2.0	1.0	1.3	2.0	2.0	1.0
18	MSC09-777143	2.0	2.0	2.0	3.0	2.7	2.0	2.0
19	ORC 8412N	1.7	1.0	1.0	1.0	2.0	2.0	1.0
20	U11-911079	1.0	1.0	1.0	1.0	1.3	2.0	1.0

2016 SCN UNIFORM TEST II

Seed Weight (g/100)

		Seed Weight (g/100)						
		Boone IA	Moorhead IA	Urbana IL	West Lafayette IN	Decatur MI	Fairfax MN	Lamberton MN
SCN HG Type		1.2.5.7	2.5.7	2.5.7	I	2.5.7	1.2.5.7	I
Strain								
1	IA2102	14.9		18.2	18.1		16.2	17.1
2	IA1022 (SCN)	13.5		15.1	16.9		17.0	16.8
3	LD02-4485	13.8		15.7	15.7		16.2	16.5
4	U11-920017	16.0		16.9	17.2		17.7	18.2
5	AR14-247080	14.0		14.8	16.0		16.2	16.6
6	E12076	16.8		17.4	18.2		17.0	17.6
7	E13100	19.2		18.2	22.2		19.1	20.3
8	E13212	16.8		18.5	20.7		20.3	20.6
9	E13370	15.0		15.7	15.3		16.6	16.7
10	LD10-10198	13.3		15.2	15.6		16.4	15.1
11	LD12-459	14.1		15.3	16.4		15.3	16.3
12	LD12-6010a	13.7		15.5	16.2		16.6	16.5
13	M08-365100	15.3		15.2	18.7		17.3	17.3
14	M09-269012	13.1		13.7	14.2		14.6	14.4
15	M09-278112	14.0		15.1	16.5		14.8	15.2
16	M09-281011	11.4		16.6	16.9		16.5	16.4
17	M09-281100	13.5		14.2	16.1		15.3	15.7
18	MSC09-777143	14.0		16.2	16.7		15.7	15.2
19	ORC 8412N	16.4		19.3	20.2		19.2	19.1
20	U11-911079	12.2		13.9	14.7		14.1	15.3

2016 SCN UNIFORM TEST II

Seed Weight (g/100)

		Waseca MN 2.5.7	Auburn NE 2.5.7	Columbus NE 0	Chatham ON 2.5.7	Harrow ON 2.5.7	Pontiac IL NI	Hoytville OH NI
SCN HG Type								
Strain								
1	IA2102	17.9	16.2	15.0	19.6	18.2	16.8	17.0
2	IA1022 (SCN)	16.0	14.5	13.9	16.8	17.6	15.0	16.8
3	LD02-4485	15.4	14.5	13.6	17.2	17.7	13.9	16.8
4	U11-920017	18.4	17.0	14.1	16.9	18.1	15.6	18.1
5	AR14-247080	16.7	14.5	13.4	16.3	17.2	12.7	15.7
6	E12076	19.6	16.8	12.4	17.8	17.8	15.9	16.9
7	E13100	20.6	18.3	16.6	20.5	19.6	18.6	19.8
8	E13212	20.0	18.3	14.6	20.9	20.4	18.3	19.7
9	E13370	17.9	14.7	13.0	15.5	17.8	15.3	16.9
10	LD10-10198	16.3	14.1	12.5	16.5	17.1	14.4	15.7
11	LD12-459	17.1	14.8	12.9	17.5	17.0	14.6	16.6
12	LD12-6010a	17.5	15.1	13.1	17.8	16.3	15.7	15.9
13	M08-365100	17.7	15.0	14.0	18.8	19.3	15.5	17.7
14	M09-269012	15.3	12.8	13.5	15.8	15.4	13.6	14.5
15	M09-278112	15.7	13.9	14.4	18.6	17.7	14.3	17.5
16	M09-281011	16.3	14.5	14.2	17.3	17.2	15.1	16.1
17	M09-281100	15.4	13.9	13.6	16.6	15.7	14.3	15.0
18	MSC09-777143	16.3	14.1	14.2	17.5	16.1	14.3	16.5
19	ORC 8412N	18.7	16.5	16.4	20.3	21.4	17.6	18.9
20	U11-911079	14.2	13.2	12.0	15.3	14.4	12.6	14.2

2016 SCN UNIFORM TEST II

Protein (%)

		Boone IA 1.2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7	Auburn NE 2.5.7	Columbus NE 0	Chatham ON 2.5.7	Harrow ON 2.5.7	Hoytville OH NI
SCN HG Type										
Strain										
1	IA2102	33.2	35.1	35.2	34.1	33.1	35.4	36.0	35.8	31.9
2	IA1022 (SCN)	31.8	33.8	34.2	32.7	31.5	32.4	33.2	34.6	33.3
3	LD02-4485	31.3	32.7	34.1	31.9	31.0	31.4	33.9	33.6	31.5
4	U11-920017	31.2	32.4	33.9	33.2	30.0	31.9	33.2	35.3	31.1
5	AR14-247080	33.3	34.8	35.4	33.8	34.2	35.2	34.9	36.8	33.4
6	E12076	33.2	34.0	33.8	34.1	34.2	33.2	35.4	36.9	33.4
7	E13100	33.2	33.7	34.2	34.5	32.9	34.0	35.4	35.9	34.1
8	E13212	34.3	34.9	35.4	35.6	34.0	35.0	36.1	37.5	34.8
9	E13370	33.5	35.8	36.1	34.3	32.6	34.1	36.1	37.7	34.1
10	LD10-10198	33.7	33.9	34.9	34.2	33.9	34.5	35.7	35.8	32.2
11	LD12-459	31.4	34.5	34.3	32.9	32.0	33.4	35.2	36.1	32.0
12	LD12-6010a	35.6	36.1	35.2	35.0	32.9	32.6	37.1	37.3	34.4
13	M08-365100	33.2	35.0	35.2	34.4	32.2	33.2	35.0	35.6	32.5
14	M09-269012	31.9	33.4	33.8	34.2	32.2	33.6	34.9	34.5	33.4
15	M09-278112	32.3	32.9	33.2	33.3	31.6	32.9	34.5	34.6	32.7
16	M09-281011	30.9	33.6	33.6	33.8	31.2	31.7	33.8	34.8	31.1
17	M09-281100	33.1	34.6	34.9	34.0	31.9	32.8	35.3	34.8	32.1
18	MSC09-777143	30.4	34.1	33.3	32.4	31.2	32.3	33.2	33.5	31.8
19	ORC 8412N	33.6	34.0	34.2	33.1	32.4	33.7	34.7	34.9	34.1
20	U11-911079	32.7	34.4	33.8	33.7	31.0	32.1	34.7	35.1	32.1

2016 SCN UNIFORM TEST II

Oil (%)

		Boone IA 1.2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7	Auburn NE 2.5.7	Columbus NE 0	Chatham ON 2.5.7	Harrow ON 2.5.7	Hoytville OH NI
SCN HG Type										
Strain										
1	IA2102	16.6	18.5	18.3	18.2	19.8	18.9	19.0	19.5	20.6
2	IA1022 (SCN)	18.3	19.8	18.9	19.6	21.3	20.9	21.1	21.3	20.7
3	LD02-4485	18.3	19.2	18.9	17.9	21.0	20.3	19.6	20.4	19.8
4	U11-920017	17.2	20.1	18.2	19.5	21.0	21.3	20.3	20.3	21.4
5	AR14-247080	15.9	18.1	17.7	19.0	18.9	18.0	19.3	18.5	19.2
6	E12076	16.6	19.7	18.9	17.6	18.7	19.3	19.1	19.0	20.3
7	E13100	17.8	20.9	19.0	19.0	20.2	20.1	19.5	20.0	20.6
8	E13212	17.2	19.6	18.8	19.0	19.8	20.8	19.5	19.3	20.3
9	E13370	17.0	18.3	17.3	19.2	19.9	19.5	18.8	18.4	20.0
10	LD10-10198	16.2	18.4	18.5	18.9	19.0	19.1	18.5	19.1	19.6
11	LD12-459	16.5	18.5	17.5	17.4	19.8	19.7	18.6	18.7	19.3
12	LD12-6010a	15.9	17.5	17.8	18.6	19.9	20.3	18.6	19.0	19.7
13	M08-365100	18.1	19.7	19.0	19.5	20.9	21.1	20.6	20.8	22.5
14	M09-269012	18.5	18.5	18.1	20.0	21.6	21.1	19.9	20.6	21.1
15	M09-278112	17.4	18.0	19.1	18.9	21.4	21.4	20.0	20.6	20.9
16	M09-281011	18.0	18.9	18.0	18.2	20.5	20.8	20.0	20.3	21.3
17	M09-281100	17.9	19.8	18.1	18.5	20.8	21.0	19.4	20.4	20.8
18	MSC09-777143	19.0	19.6	19.3	19.5	20.5	20.7	20.5	20.8	21.0
19	ORC 8412N	16.9	20.1	18.5	18.9	20.9	20.3	20.3	20.7	20.8
20	U11-911079	16.2	18.4	18.4	18.5	20.4	19.8	19.0	19.0	19.8

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2016 SCN PRELIMINARY TEST II

	Strain	Descriptive code	Parentage	Gen. Comp.	SCN res source	Traits
1	IA2102	WGy	A04-545045 x AgriPro 98180-A01-06131	F4	None	
2	IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024	F5	PI 88788	
3	LD02-4485	PGbf	M90-184111 x IA3010	F5	PI 88788	
4	U11-920017	PLtbr	HS5-3417 x LD02-4485	F6	None	Rps res.
5	AR15-158020	PGbf	IAR1902 SCN x AR3	F3	Peking	
6	AR15-258003	PLtbl	AX19287-1-5 x AR06-165058	F5	PI 88788	
7	AR15-258006	PLtbl	AX19288-1-11 x AR06-165058	F5	PI 88788	
8	AR15-258027	PGibl	AR16SCN x RxEF59-70	F3	PI 88788	
9	AR15-258048	WT+Ltbr	IAR1902 SCN x ND07-4635	F3	Peking	
10	AR15-258069	P+WLtbr	ND03-5441 x IAR1902 SCN	F3	Peking	
11	AR15-258102	WGbf	AR16SCN x U09-129007	F3	PI 88788	
12	E13901	WTbl	E11955 x E07051	F4	PI 88788	
13	E13902	P+WGibl/bf	E11955 x E07051	F4	PI 88788	
14	E13903	WT+Gbr/bf/bl/y	E11955 x LD08-12430a	F4	PI 88788	
15	E14077	PLtbl	U03-300134 x E07051	F5	PI 88788	
16	E14141	WTbl	LG04-4468 x U02-242055	F5	PI 88788	
17	E14143	WTbl	LG04-4468 x U02-242055	F5	PI 88788	
18	E14148	PGibl	LG05-2359 x U03-100612	F5	PI 88788	
19	E14208	PTgr	E10906 x E07048	F5	PI 88788	
20	E14273	PGgr	E05226-T x E09014	F5	PI 88788	
21	E14309	WGbf	E07051 x E11358	F5	PI 88788	
22	E14314	WGbf	E07051 x E11358	F5	PI 88788	
23	LD13-1429	WLtbl	LD07-3395 x NE0900094	F5	PI 88788,437654	
24	LD13-5120a	PGgr	LD08-3936 x LD09-13023a	F5	PI 88788	Rag 2
25	LD13-5131a	PGibl	LD08-3936 x LD09-13023a	F5	PI 88788	Rag 2
26	LD13-5789	PGgr	LD05-1540 x LD02-4485	F5	PI 88788	
27	LD13-6640	PLtbl	LD07-3395 x NE0900094	F5	PI 88788,437654	
28	LD13-6678	PLtbl	LD07-3395 x NE0900094	F5	PI 88788,437654	
29	MSC10-562070	WGibl	MN1410 X PI629013	F5	PI 629013	
30	MSC10-570022	WTbl	IA2073 X PI633736	F5	PI 633736	
31	ORC 0516N	WGy	OAC Thames x HC 1912N	F5	PI 88788	
32	ORC 0616N	WGy	OAC Thames x HC 1912N	F5	PI 88788	

2016 SCN PRELIMINARY TEST II

	IL SCN screen				ISU IDC	MN IDC
	HG Type 0		HG Type 2.5.7		Bruner	Danvers
Strain	FI	rating	FI	rating	score	score
1 IA2102	18	R	67	NR	2.5	4.5
2 IA1022 (SCN)	26	MR	54	LR	2.0	4.3
3 LD02-4485	9	HR	46	LR	1.8	4.3
4 U11-920017	74	NR	49	LR	1.5	3.5
5 AR15-158020	1	HR	3	HR	2.5	4.5
6 AR15-258003	2	HR	56	LR	1.5	4.0
7 AR15-258006	4	HR	52	LR	2.0	4.0
8 AR15-258027	14	R	65	NR	2.0	5.0
9 AR15-258048	1	HR	4	HR	1.3	4.8
10 AR15-258069	12	R	70	NR	2.0	5.0
11 AR15-258102	12	R	65	NR	3.3	4.8
12 E13901	26	R	76	NR	3.5	5.0
13 E13902	17	R	69	NR	3.5	5.0
14 E13903	75	NR	60	NR	3.3	4.3
15 E14077	8	HR	78	NR	3.8	4.8
16 E14141	71	NR	68	NR	3.0	4.8
17 E14143	88	NR	76	NR	2.8	4.3
18 E14148	4	HR	64	NR	1.5	4.8
19 E14208	82	NR	49	**	2.5	4.8
20 E14273	50	**	73	NR	4.3	5.0
21 E14309	72	**	77	NR	2.3	4.5
22 E14314	6	HR	77	NR	3.0	4.3
23 LD13-1429	5	HR	46	**	4.3	4.8
24 LD13-5120a	13	R	63	NR	3.8	5.0
25 LD13-5131a	9	HR	61	NR	1.5	4.5
26 LD13-5789	6	HR	52	LR	1.8	3.8
27 LD13-6640	9	HR	81	NR	2.5	4.3
28 LD13-6678	16	R	74	NR	3.0	5.0
29 MSC10-562070	4	HR	28	MR	4.0	4.5
30 MSC10-570022	71	NR	73	NR	3.0	4.8
31 ORC 0516N	16	R	81	**	3.3	4.5
32 ORC 0616N	12	R	60	**	2.5	4.5

**rep data too variable to rate

Ave. 2.4

Ave. 4.5

LSD 2.2

LSD 0.5

2016 SCN PRELIMINARY TEST II

Summary

Strain		Yield								Seed				
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	10		9		1		6	9	9	8	8	6	6
1	IA2102	63.5	7	62.1	7	76.5	8	9/24	2.6	39	1.6	16.6	33.9	18.8
2	IA1022 (SCN)	51.8	29	50.2	29	67.0	23	-4	2.4	35	1.4	15.2	32.2	20.0
3	LD02-4485	65.3	5	64.3	4	74.2	14	0	2.3	39	1.6	14.3	32.1	19.3
4	U11-920017	58.2	16	55.7	19	80.5	2	2	2.0	36	1.8	16.8	31.7	19.7
5	AR15-158020	60.7	11	59.6	10	70.2	18	3	2.8	44	1.7	15.7	34.5	18.8
6	AR15-258003	60.3	12	58.8	13	73.6	16	3	2.4	41	1.6	15.5	34.2	18.5
7	AR15-258006	59.4	14	58.9	12	64.4	27	2	2.7	46	1.6	16.2	35.0	18.4
8	AR15-258027	63.8	6	62.6	6	74.4	13	2	2.1	40	1.7	15.5	35.3	18.3
9	AR15-258048	67.3	1	66.2	1	76.5	8	1	2.4	41	1.6	15.6	32.7	20.0
10	AR15-258069	58.2	17	57.3	15	65.7	25	2	2.0	42	1.6	16.9	35.9	18.2
11	AR15-258102	57.1	19	55.9	18	67.8	20	2	2.2	36	2.0	16.2	34.6	19.0
12	E13901	53.9	23	52.8	23	63.6	28	0	2.8	40	1.7	18.4	34.9	19.1
13	E13902	55.3	22	54.7	21	60.1	29	1	1.6	36	1.8	17.8	35.0	18.6
14	E13903	39.7	32	38.9	32	46.9	32	-3	1.7	37	1.8	15.7	34.6	18.5
15	E14077	62.6	9	60.7	9	79.1	5	3	2.1	39	1.3	16.8	33.8	19.3
16	E14141	52.8	26	51.1	26	67.8	21	-4	2.0	36	1.3	16.0	34.9	18.7
17	E14143	53.2	25	50.8	27	74.9	12	-1	1.7	33	1.6	16.3	34.8	19.8
18	E14148	61.4	10	59.3	11	80.1	3	2	2.7	40	1.5	15.3	34.0	19.3
19	E14208	52.0	28	50.1	30	69.4	19	1	2.0	38	1.5	15.1	34.1	18.4
20	E14273	53.8	24	52.4	24	66.2	24	-5	1.9	35	1.5	19.4	35.5	18.7
21	E14309	57.0	20	55.0	20	75.1	11	5	2.4	38	1.5	16.3	33.4	18.0
22	E14314	58.1	18	56.7	17	70.6	17	-2	2.4	37	1.6	17.3	33.0	19.8
23	LD13-1429	67.3	1	65.9	2	79.9	4	2	2.3	37	1.6	18.0	34.7	18.9
24	LD13-5120a	59.0	15	57.1	16	75.3	10	3	2.3	37	1.4	15.1	33.0	18.9
25	LD13-5131a	62.9	8	61.2	8	78.5	7	0	2.2	38	1.6	15.7	33.7	18.7
26	LD13-5789	60.1	13	58.5	14	74.1	15	-1	1.9	41	1.3	15.6	34.2	18.6
27	LD13-6640	66.2	3	64.8	3	78.6	6	2	2.1	37	1.3	16.8	31.8	19.7
28	LD13-6678	65.9	4	64.0	5	83.2	1	2	2.3	37	1.6	17.3	33.9	19.1
29	MSC10-562070	55.4	21	54.1	22	67.6	22	-6	3.4	38	1.4	15.8	35.7	19.0
30	MSC10-570022	51.0	31	49.5	31	64.7	26	3	1.9	37	1.5	16.4	34.4	19.1
31	ORC 0516N	52.2	27	52.0	25	54.6	30	-3	2.3	38	1.9	18.2	36.6	17.7
32	ORC 0616N	51.1	30	50.7	28	54.1	31	-3	2.3	36	2.2	20.1	36.8	17.7
Mean														
LSD(.05)		58.0		56.6		70.5		23.9	2.3	38.3	1.6	16.5	34.2	18.9
C.V. %		3.9		4.3		7.1		1.8	0.3	1.8				
Replications		10.8		11.4		4.9		10.3	19.8	7.2				

2016 SCN PRELIMINARY TEST II

Yield (bu/a)

		Boone IA 1.2.5.7	Moorhead IA 2.5.7	Urbana IL 2.5.7	Decatur MI 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7	Auburn NE 2.5.7	Columbus NE 0	Pontiac IL NI
SCN HG Type											
Strain											
1	IA2102	69.6	71.6	80.3	54.8	58.0	44.5	50.0	65.9	64.3	76.5
2	IA1022 (SCN)	66.9	51.6	65.4	10.4	54.7	50.6	53.6	51.9	45.6	67.0
3	LD02-4485	63.1	75.6	79.1	61.1	48.3	51.0	60.4	64.6	75.5	74.2
4	U11-920017	66.1	54.7	78.4	37.3	42.4	40.6	61.2	66.7	53.9	80.5
5	AR15-158020	67.6	54.8	75.5	55.4	57.4	53.2	51.3	70.0	51.4	70.2
6	AR15-258003	62.2	62.5	75.9	47.9	55.3	53.7	49.1	62.9	60.1	73.6
7	AR15-258006	62.2	56.7	70.4	57.1	52.2	50.8	52.3	73.8	54.1	64.4
8	AR15-258027	70.7	54.1	73.6	40.7	61.2	50.7	60.1	79.4	73.6	74.4
9	AR15-258048	73.0	70.9	75.4	75.0	57.5	51.1	55.8	64.6	73.3	76.5
10	AR15-258069	61.4	49.7	70.4	41.6	50.8	53.3	52.3	65.8	70.6	65.7
11	AR15-258102	65.0	51.4	71.7	44.6	42.9	47.3	56.3	63.1	61.4	67.8
12	E13901	67.2	68.3	69.7	33.8	50.3	40.8	41.9	53.1	49.6	63.6
13	E13902	71.7	64.6	65.8	43.0	38.9	41.8	50.7	55.5	61.1	60.1
14	E13903	54.5	50.3	48.0	28.2	28.6	32.9	38.1	32.2	37.6	46.9
15	E14077	70.7	58.2	79.8	41.2	58.5	53.4	61.2	63.6	59.6	79.1
16	E14141	68.5	54.9	72.9	35.0	37.9	42.2	42.6	59.9	45.7	67.8
17	E14143	68.2	58.2	68.3	34.0	38.5	29.8	52.2	59.7	48.9	74.9
18	E14148	64.1	65.4	76.4	65.0	43.6	42.2	48.6	67.3	61.7	80.1
19	E14208	61.0	56.3	70.5	32.6	48.7	33.1	47.4	56.4	45.2	69.4
20	E14273	63.1	58.8	66.1	41.6	48.9	37.2	49.6	56.5	49.9	66.2
21	E14309	75.3	62.8	74.3	45.8	42.2	44.0	45.5	52.8	52.3	75.1
22	E14314	66.0	64.5	74.0	57.8	50.5	50.0	48.0	60.5	39.3	70.6
23	LD13-1429	71.3	69.0	70.7	65.7	55.3	51.4	61.1	76.0	71.9	79.9
24	LD13-5120a	66.4	59.7	70.2	54.1	53.8	39.6	49.0	59.5	62.3	75.3
25	LD13-5131a	65.8	60.7	78.8	58.4	56.2	52.9	58.3	55.0	64.2	78.5
26	LD13-5789	63.9	65.5	73.8	53.3	49.7	47.8	47.2	56.5	68.6	74.1
27	LD13-6640	71.3	67.7	81.3	55.3	58.3	51.1	64.8	70.9	62.5	78.6
28	LD13-6678	63.8	64.6	83.3	58.0	57.5	60.4	49.0	69.6	69.1	83.2
29	MSC10-562070	68.7	57.0	49.1	59.0	48.6	41.1	51.4	52.2	59.4	67.6
30	MSC10-570022	64.5	56.1	61.0	32.6	37.1	41.4	45.4	60.7	46.8	64.7
31	ORC 0516N	63.8	59.7	61.8	41.7	47.0	33.7	45.8	55.6	58.7	54.6
32	ORC 0616N	64.4	56.3	62.4	35.9	49.9	41.7	49.9	43.7	52.2	54.1
Average		66.3	60.4	71.1	47.8	49.4	45.5	51.6	60.8	57.8	70.5
LSD(.05)		12.2	8.8	6.7	19.2	12.1	10.5	10.2	21.3	22.0	7.1
C.V. %		9.0	7.2	4.6	16.7	12.0	11.3	9.7	14.2	15.4	4.9
Replications		2	2	2	2	2	2	2	2	2	2
Row width (in.)		30	30	30	30	30	30	30	30	30	30

2016 SCN PRELIMINARY TEST II

Yield (rank)

		Boone	Moorhead	Urbana	Decatur	Fairfax	Lamberton	Waseca	Auburn	Columbus	Pontiac
		IA	IA	IL	MI	MN	MN	MN	NE	NE	IL
		1.2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	I	2.5.7	2.5.7	0	NI
SCN HG Type											
Strain											
1	IA2102	8	2	3	12	4	17	17	9	8	8
2	IA1022 (SCN)	14	29	27	32	11	13	10	30	29	23
3	LD02-4485	26	1	5	4	22	10	5	12	1	14
4	U11-920017	16	27	7	24	26	26	2	8	20	2
5	AR15-158020	12	26	10	10	7	5	15	5	23	18
6	AR15-258003	28	13	9	15	10	2	20	15	15	16
7	AR15-258006	28	21	20	9	13	11	11	3	19	27
8	AR15-258027	6	28	15	23	1	12	6	1	2	13
9	AR15-258048	2	3	11	1	5	8	9	12	3	8
10	AR15-258069	30	32	20	20	14	4	12	10	5	25
11	AR15-258102	19	30	17	17	25	16	8	14	13	20
12	E13901	13	5	23	28	16	25	31	27	25	28
13	E13902	3	9	26	18	28	21	16	25	14	29
14	E13903	32	31	32	31	32	31	32	32	32	32
15	E14077	6	18	4	22	2	3	3	13	16	5
16	E14141	10	25	16	26	30	20	30	18	28	20
17	E14143	11	18	24	27	29	32	13	19	26	12
18	E14148	22	8	8	3	24	19	23	7	12	3
19	E14208	31	22	19	29	20	30	25	23	30	19
20	E14273	27	17	25	21	19	28	19	22	24	24
21	E14309	1	12	12	16	27	18	28	28	21	11
22	E14314	17	11	13	8	15	14	24	17	31	17
23	LD13-1429	4	4	18	2	9	7	4	2	4	4
24	LD13-5120a	15	15	22	13	12	27	22	20	11	10
25	LD13-5131a	18	14	6	6	8	6	7	26	9	7
26	LD13-5789	23	7	14	14	18	15	26	22	7	15
27	LD13-6640	4	6	2	11	3	9	1	4	10	6
28	LD13-6678	24	9	1	7	6	1	21	6	6	1
29	MSC10-562070	9	20	31	5	21	24	14	29	17	22
30	MSC10-570022	20	24	30	30	31	23	29	16	27	26
31	ORC 0516N	24	15	29	19	23	29	27	24	18	30
32	ORC 0616N	21	23	28	25	17	22	18	31	22	31

2016 SCN PRELIMINARY TEST II

Maturity

		Boone	Moorhead	Urbana	Decatur	Fairfax	Lamberton	Waseca	Auburn	Columbus	Pontiac
		IA	IA	IL	MI	MN	MN	MN	NE	NE	IL
SCN HG Type		1.2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	I	2.5.7	2.5.7	0	NI
Strain											
1	IA2102	9/24		9/12		10/2	10/6	9/28		9/19	9/14
2	IA1022 (SCN)	-4		-7		-2	-9	-3		-3	-4
3	LD02-4485	1		0		-1	1	1		1	0
4	U11-920017	0		3		2	2	6		0	4
5	AR15-158020	6		5		0	2	7		1	3
6	AR15-258003	3		3		2	2	6		-1	5
7	AR15-258006	8		4		2	4	8		2	5
8	AR15-258027	4		1		0	1	6		0	3
9	AR15-258048	2		-1		2	-5	5		0	1
10	AR15-258069	4		-1		2	2	6		1	2
11	AR15-258102	4		2		3	1	5		-1	2
12	E13901	3		0		2	-4	-1		0	0
13	E13902	4		1		2	1	3		1	-2
14	E13903	1		-6		-2	-5	0		-3	-3
15	E14077	7		2		1	-1	7		0	4
16	E14141	-3		-3		-2	-7	-3		-4	-2
17	E14143	2		0		-2	-4	-1		-4	0
18	E14148	0		2		2	0	6		0	5
19	E14208	5		2		1	-1	0		-1	3
20	E14273	-8		-6		-4	-8	-3		-4	-3
21	E14309	13		6		3	3	6		1	7
22	E14314	-1		0		-2	-5	0		-3	0
23	LD13-1429	3		2		2	-1	6		2	2
24	LD13-5120a	3		2		2	3	4		1	4
25	LD13-5131a	4		-1		0	-4	1		1	2
26	LD13-5789	-1		-2		0	-6	0		1	-2
27	LD13-6640	3		1		3	-1	4		0	2
28	LD13-6678	4		1		3	2	3		1	2
29	MSC10-562070	-6		-7		-4	-8	-3		-6	-6
30	MSC10-570022	4		3		2	3	5		2	4
31	ORC 0516N	-1		-3		-1	-6	-1		-7	-2
32	ORC 0616N	-1		-4		-1	-7	-1		-3	-3
Planted		5/17	5/16	5/21	5/23	5/26	5/18	5/18	6/2	5/19	5/20

2016 SCN PRELIMINARY TEST II

Lodging (score)

		Boone	Moorhead	Urbana	Decatur	Fairfax	Lamberton	Waseca	Auburn	Columbus	Pontiac
		IA	IA	IL	MI	MN	MN	MN	NE	NE	IL
SCN HG Type		1.2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	I	2.5.7	2.5.7	0	NI
Strain											
1	IA2102	3.0	3.8	3.0	1.0	1.0	2.5	3.0		3.0	3.5
2	IA1022 (SCN)	2.8	3.5	3.3	1.0	2.0	2.5	3.0		1.0	3.0
3	LD02-4485	2.8	3.0	2.3	1.0	1.0	2.5	3.0		2.0	3.0
4	U11-920017	2.0	2.8	2.5	1.0	1.0	2.5	2.5		1.0	2.8
5	AR15-158020	3.5	4.0	3.0	1.5	1.0	2.0	4.0		3.0	3.5
6	AR15-258003	2.3	3.8	2.8	1.0	2.0	2.0	3.0		1.5	3.3
7	AR15-258006	3.0	3.3	3.3	1.5	1.0	3.0	3.5		3.0	2.8
8	AR15-258027	2.0	3.3	1.8	1.0	2.0	2.0	2.5		2.0	2.3
9	AR15-258048	2.5	4.3	2.0	1.0	1.0	2.0	3.0		3.0	2.5
10	AR15-258069	2.3	4.0	2.0	1.0	1.0	2.0	2.5		1.0	2.5
11	AR15-258102	2.5	3.8	2.5	1.0	1.0	2.0	2.5		2.0	2.8
12	E13901	3.5	3.5	3.0	1.0	2.0	3.0	3.5		3.0	2.8
13	E13902	2.0	2.8	1.3	1.0	1.0	1.5	2.0		1.5	1.5
14	E13903	2.0	2.5	1.5	1.0	1.0	2.0	2.0		1.0	2.0
15	E14077	2.3	3.5	2.0	1.0	1.0	2.0	2.5		2.0	2.5
16	E14141	2.5	3.0	2.5	1.0	1.0	2.0	2.0		1.5	2.8
17	E14143	2.0	2.8	2.0	1.0	1.0	1.0	2.5		1.0	2.0
18	E14148	2.5	4.3	3.0	2.0	1.0	2.5	3.0		2.5	3.3
19	E14208	2.3	2.8	2.3	1.0	3.0	2.0	2.0		1.5	1.5
20	E14273	2.3	2.5	1.8	1.0	1.0	2.0	3.0		1.0	2.5
21	E14309	2.8	3.5	2.3	1.5	1.0	2.5	3.5		2.0	2.8
22	E14314	2.5	3.8	2.8	1.0	2.0	2.0	3.0		1.5	3.0
23	LD13-1429	2.3	3.5	2.3	1.0	2.0	2.5	3.0		2.5	2.0
24	LD13-5120a	2.8	3.3	2.3	1.0	2.0	3.0	2.5		1.5	2.3
25	LD13-5131a	2.3	3.5	2.3	1.0	1.0	2.0	2.5		3.0	2.0
26	LD13-5789	2.5	3.0	2.3	1.0	1.0	2.0	2.5		1.0	2.0
27	LD13-6640	2.3	3.5	2.0	1.0	1.0	2.5	3.0		1.5	2.5
28	LD13-6678	2.3	3.5	2.3	1.0	2.0	2.5	3.0		2.0	2.0
29	MSC10-562070	4.0	4.3	4.0	1.0	3.0	3.0	4.0		3.5	4.0
30	MSC10-570022	2.0	2.5	1.8	1.0	1.0	2.5	3.0		1.0	2.0
31	ORC 0516N	3.0	3.0	2.8	1.0	1.0	2.5	2.5		2.0	2.8
32	ORC 0616N	3.0	4.3	2.8	1.0	1.0	2.5	2.5		1.5	2.5

2016 SCN PRELIMINARY TEST II

Height (inches)

		Boone	Moorhead	Urbana	Decatur	Fairfax	Lamberton	Waseca	Auburn	Columbus	Pontiac
		IA	IA	IL	MI	MN	MN	MN	NE	NE	IL
		1.2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	I	2.5.7	2.5.7	0	NI
SCN HG Type											
Strain											
1	IA2102	42	47	41	32	36	38	39		33	42
2	IA1022 (SCN)	38	42	38	20	35	37	37		29	41
3	LD02-4485	43	47	39	33	37	41	40		35	41
4	U11-920017	41	45	41	27	32	38	38		29	38
5	AR15-158020	50	54	44	37	46	43	49		39	40
6	AR15-258003	48	52	44	32	41	41	40		32	43
7	AR15-258006	50	56	44	39	50	47	47		34	51
8	AR15-258027	40	47	42	30	39	42	41		36	42
9	AR15-258048	46	50	42	36	39	40	46		35	37
10	AR15-258069	49	52	43	27	40	42	44		37	45
11	AR15-258102	40	44	37	27	34	35	39		31	37
12	E13901	46	48	41	27	38	43	43		33	40
13	E13902	37	45	38	28	34	34	38		31	37
14	E13903	36	47	40	28	33	40	41		27	40
15	E14077	43	48	42	29	38	37	44		34	41
16	E14141	39	42	41	27	35	37	39		26	40
17	E14143	35	42	39	23	34	30	36		26	37
18	E14148	44	48	44	36	37	36	46		34	41
19	E14208	43	46	36	29	38	37	40		31	40
20	E14273	39	45	37	27	32	33	40		29	36
21	E14309	44	42	39	29	33	43	41		32	39
22	E14314	37	48	38	30	36	40	40		30	40
23	LD13-1429	42	47	38	29	34	42	39		30	36
24	LD13-5120a	41	44	41	31	36	33	39		34	40
25	LD13-5131a	42	47	39	32	35	40	40		31	40
26	LD13-5789	45	51	43	35	35	39	45		33	43
27	LD13-6640	41	44	42	28	36	38	41		29	40
28	LD13-6678	38	45	38	29	35	38	41		32	37
29	MSC10-562070	39	45	43	35	37	40	38		28	42
30	MSC10-570022	44	48	38	27	36	41	37		25	40
31	ORC 0516N	42	47	38	31	39	40	40		32	40
32	ORC 0616N	41	42	36	28	33	37	38		32	37

2016 SCN PRELIMINARY TEST II

Seed Quality (score)

		Boone	Moorhead	Urbana	Decatur	Fairfax	Lamberton	Waseca	Auburn	Columbus	Pontiac
		IA	IA	IL	MI	MN	MN	MN	NE	NE	IL
SCN HG Type		1.2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	I	2.5.7	2.5.7	0	NI
Strain											
1	IA2102	2.0		2.0		1.5	1.5	1.0	2.0	1.0	2.0
2	IA1022 (SCN)	1.0		2.0		1.5	1.5	1.5	1.0	1.0	2.0
3	LD02-4485	1.0		2.0		1.0	1.5	1.5	2.0	2.0	2.0
4	U11-920017	2.0		3.0		1.0	2.5	1.5	1.0	1.0	2.0
5	AR15-158020	2.0		2.0		1.0	1.5	2.0	2.0	1.0	2.0
6	AR15-258003	1.0		2.0		1.5	1.0	1.5	2.0	2.0	2.0
7	AR15-258006	2.0		2.0		1.5	1.5	2.0	2.0	1.0	1.0
8	AR15-258027	2.0		1.0		1.5	1.5	1.5	2.0	2.0	2.0
9	AR15-258048	1.0		2.0		1.0	1.5	2.0	1.0	2.0	2.0
10	AR15-258069	1.0		3.0		1.5	1.5	1.0	2.0	1.0	2.0
11	AR15-258102	2.0		3.0		1.5	1.5	2.0	2.0	2.0	2.0
12	E13901	2.0		2.0		1.0	1.5	2.0	2.0	1.0	2.0
13	E13902	2.0		2.0		1.5	1.5	1.5	2.0	2.0	2.0
14	E13903	2.0		2.0		1.0	1.5	1.5	2.0	2.0	2.0
15	E14077	2.0		1.0		1.0	1.0	1.5	2.0	1.0	1.0
16	E14141	1.0		1.0		1.5	1.0	1.5	1.0	1.0	2.0
17	E14143	2.0		2.0		1.0	2.0	1.5	1.0	1.0	2.0
18	E14148	2.0		2.0		1.0	1.0	2.0	1.0	1.0	2.0
19	E14208	1.0		2.0		1.5	1.5	2.0	1.0	1.0	2.0
20	E14273	1.0		2.0		1.0	1.5	1.5	2.0	1.0	2.0
21	E14309	2.0		2.0		1.0	1.5	1.5	1.0	1.0	2.0
22	E14314	2.0		2.0		1.0	1.5	1.0	1.0	2.0	2.0
23	LD13-1429	2.0		2.0		1.0	1.5	1.0	2.0	1.0	2.0
24	LD13-5120a	1.0		2.0		1.0	2.0	1.0	1.0	1.0	2.0
25	LD13-5131a	1.0		2.0		1.5	3.0	1.5	1.0	1.0	2.0
26	LD13-5789	1.0		2.0		1.0	1.0	1.5	1.0	1.0	2.0
27	LD13-6640	1.0		1.0		1.0	1.5	1.5	1.0	1.0	2.0
28	LD13-6678	2.0		2.0		1.0	1.5	1.0	2.0	1.0	2.0
29	MSC10-562070	1.0		2.0		1.0	1.0	1.5	2.0	1.0	2.0
30	MSC10-570022	1.0		2.0		1.0	1.5	1.5	2.0	1.0	2.0
31	ORC 0516N	1.0		3.0		2.0	2.0	2.5	1.0	2.0	2.0
32	ORC 0616N	2.0		3.0		2.0	2.5	2.0	2.0	1.0	3.0

2016 SCN PRELIMINARY TEST II

Seed Weight (g/100)

		Boone IA 1.2.5.7	Moorhead IA 2.5.7	Urbana IL 2.5.7	Decatur MI 2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7	Auburn NE 2.5.7	Columbus NE 0	Pontiac IL NI
SCN HG Type											
Strain											
1	IA2102	15.4		16.9		17.2	17.9	16.1	16.8	15.0	17.1
2	IA1022 (SCN)	13.1		15.0		17.1	16.9	14.6	15.0	15.2	15.1
3	LD02-4485	12.6		13.7		15.0	16.2	15.7	14.1	14.0	13.5
4	U11-920017	15.2		16.3		16.8	17.9	18.9	17.3	15.2	17.2
5	AR15-158020	14.9		15.6		16.5	16.2	17.4	15.7	14.5	15.1
6	AR15-258003	15.8		15.3		16.1	15.5	17.1	15.4	13.3	15.5
7	AR15-258006	15.2		15.9		16.7	17.7	18.5	17.0	13.8	15.2
8	AR15-258027	14.1		14.3		16.7	17.1	16.8	15.3	14.3	15.6
9	AR15-258048	14.5		15.1		17.1	16.5	16.9	15.0	14.8	15.1
10	AR15-258069	15.9		16.8		17.7	18.0	17.8	17.1	15.5	16.6
11	AR15-258102	15.6		16.5		15.7	17.5	17.2	16.4	14.9	15.9
12	E13901	18.3		17.1		18.9	18.8	18.0	18.5	19.3	18.0
13	E13902	18.2		17.0		19.2	18.2	18.1	16.6	17.8	17.0
14	E13903	14.8		14.8		15.9	18.3	16.3	15.7	15.1	15.0
15	E14077	15.8		16.6		18.6	17.4	18.1	16.4	15.2	16.2
16	E14141	15.4		16.7		17.2	16.9	15.0	16.3	13.9	16.9
17	E14143	16.1		16.4		16.7	16.7	16.7	16.1	15.0	16.9
18	E14148	14.1		14.9		16.6	16.3	16.3	15.1	13.9	14.9
19	E14208	15.0		14.6		16.4	15.9	14.6	14.7	14.5	15.5
20	E14273	19.0		18.8		20.1	19.8	20.1	19.5	18.8	19.4
21	E14309	15.7		16.5		16.8	19.3	15.5	15.7	14.3	16.4
22	E14314	16.8		18.7		18.9	18.2	17.0	16.1	15.3	17.5
23	LD13-1429	16.9		17.7		19.6	18.1	19.8	17.3	17.4	17.4
24	LD13-5120a	14.6		15.3		16.8	16.6	15.0	13.6	14.0	14.9
25	LD13-5131a	14.6		15.1		17.3	17.9	17.0	14.6	14.9	14.5
26	LD13-5789	14.7		15.4		16.2	17.1	15.6	15.0	15.3	15.5
27	LD13-6640	15.1		16.5		17.5	18.9	18.6	16.1	14.9	16.9
28	LD13-6678	15.2		17.4		18.4	18.5	18.7	16.8	16.8	17.0
29	MSC10-562070	16.5		15.0		18.2	16.6	15.2	14.8	15.6	14.5
30	MSC10-570022	14.7		16.1		17.6	17.7	17.1	16.4	15.9	15.4
31	ORC 0516N	17.0		17.9		20.4	18.0	19.7	17.0	18.5	17.1
32	ORC 0616N	18.0		20.5		22.5	20.6	21.1	18.5	20.0	20.0

2016 SCN PRELIMINARY TEST II

		Protein (%)					
		Boone IA 1.2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7	Auburn NE 2.5.7	Columbus NE 0
SCN HG Type							
Strain							
1	IA2102	33.0	34.9	35.4	31.9	33.5	34.7
2	IA1022 (SCN)	30.3	33.5	33.2	31.5	31.1	33.5
3	IA3024	29.5	33.0	33.3	32.6	30.9	33.3
4	LD02- 4485	29.2	32.4	32.8	32.3	31.9	31.4
5	AR13-231003	35.5	34.6	35.1	34.5	32.9	34.6
6	AR13-231004	34.6	34.2	34.9	34.5	33.5	33.6
7	AR14-247026	33.9	35.3	36.6	34.5	33.9	35.6
8	AR14-247037	33.3	35.0	36.8	35.0	36.7	35.0
9	AR14-247080	32.0	33.0	34.1	32.1	31.8	33.2
10	E13021T	35.1	36.1	37.3	35.9	35.4	35.8
11	E13036T	34.3	34.7	35.3	35.4	33.0	34.7
12	E13100	35.8	35.0	36.0	34.5	34.1	34.2
13	E13139	34.9	34.7	35.2	35.3	34.7	35.2
14	E13212	34.6	35.4	35.5	35.5	33.1	33.8
15	E13268	33.3	34.5	35.2	33.3	32.0	34.4
16	E13364	34.5	36.8	36.3	33.8	33.6	34.6
17	E13367	34.4	35.5	36.3	33.7	33.9	34.8
18	E13369	33.4	35.4	35.2	33.5	32.5	33.7
19	E13370	32.8	35.4	34.8	34.1	32.5	35.0
20	LD12-65	33.5	36.4	37.2	36.2	34.3	35.4
21	LD12-459	32.1	34.6	34.9	33.5	31.7	33.8
22	LD12-5750a	30.6	33.6	34.0	33.6	31.7	34.5
23	LD12-5816a	33.5	35.2	36.1	34.2	33.9	35.2
24	LD12-6010a	32.4	33.4	34.3	33.6	32.0	32.7
25	LD12-12701a	33.3	34.4	35.1	32.7	33.0	33.7
26	M09-269012	33.6	35.6	34.9	34.5	31.9	34.5
27	M09-278112	30.1	32.9	32.0	32.1	32.0	31.9
28	M09-278134	33.3	35.3	35.0	34.3	32.5	33.0
29	M09-281011	34.3	36.3	36.8	35.8	34.8	36.0
30	M09-281100	32.2	35.5	35.3	34.6	32.8	36.1
31	M09-285056	37.5	37.4	37.7	35.4	35.4	36.3
32	MSC09-776046	37.2	38.0	37.5	36.5	34.7	36.7

2016 SCN PRELIMINARY TEST II

Oil (%)

		Boone IA 1.2.5.7	Fairfax MN 1.2.5.7	Lamberton MN I	Waseca MN 2.5.7	Auburn NE 2.5.7	Columbus NE 0
SCN HG Type							
Strain							
1	IA2102	17.5	18.5	18.2	20.2	19.3	18.9
2	IA1022 (SCN)	18.8	20.4	18.9	19.8	21.7	20.5
3	IA3024	18.6	19.2	17.9	20.2	20.4	19.4
4	LD02- 4485	19.5	19.0	18.6	19.9	20.7	20.7
5	AR13-231003	16.4	18.9	17.7	19.3	20.6	19.7
6	AR13-231004	15.7	18.8	17.1	19.3	19.7	20.3
7	AR14-247026	16.7	17.6	17.0	20.1	20.0	18.7
8	AR14-247037	17.3	19.4	17.3	18.1	18.4	19.4
9	AR14-247080	17.8	20.1	19.6	20.4	21.1	20.8
10	E13021T	16.8	18.4	17.0	19.1	19.2	18.9
11	E13036T	17.8	18.3	18.0	19.5	20.5	20.1
12	E13100	17.2	19.1	18.0	20.3	19.9	20.2
13	E13139	16.7	18.9	17.9	19.8	18.9	19.5
14	E13212	16.4	18.6	18.0	18.9	19.5	19.4
15	E13268	18.4	19.0	17.8	20.3	20.8	19.6
16	E13364	16.5	18.4	18.1	19.4	20.3	19.7
17	E13367	18.4	19.6	18.2	21.0	20.5	21.0
18	E13369	17.6	19.0	18.2	20.4	19.9	20.4
19	E13370	17.4	18.4	17.9	18.5	19.7	18.7
20	LD12-65	18.5	18.1	17.1	19.2	20.5	18.9
21	LD12-459	15.7	18.0	16.6	19.5	19.6	18.5
22	LD12-5750a	19.2	20.6	18.5	20.9	20.7	19.1
23	LD12-5816a	17.1	19.1	18.1	19.4	20.0	19.6
24	LD12-6010a	16.7	19.1	18.2	19.4	19.9	19.8
25	LD12-12701a	16.4	19.0	17.6	19.3	19.8	20.0
26	M09-269012	16.5	18.2	17.9	19.4	20.3	19.6
27	M09-278112	19.0	19.6	18.9	19.7	20.7	20.7
28	M09-278134	16.6	19.0	19.0	19.7	20.3	19.7
29	M09-281011	17.4	19.3	19.1	19.8	19.3	19.0
30	M09-281100	18.2	18.8	18.5	19.8	19.9	19.3
31	M09-285056	15.5	17.7	16.3	18.9	19.1	18.6
32	MSC09-776046	16.3	17.5	17.1	18.1	18.5	18.8

2016 SCN UNIFORM TEST III

	Strain	Descriptive code	Parentage	Previous testing
1	IA3023	WLtbl	Dairyland DSR-365 x Pioneer P9381	14
2	IA3048	WGy	Dairyland 99540 x IA2068	6
3	LD07-3395bf	WGbf	LD07-3395 RESELECTION	1
4	U11-920017	PTbr	HS5-3417 x LD02-4485	15 UT II
5	AR13-331019	WGbf	PI 606749 x AR3	15 SCN U IV
6	AR13-331023	P+WT+Gbl/bf/ibl	AR03-161009 x AR06-365076	15 SCN P III
7	LD11-2170	PLtbr	Syngenta 03JR313108 x LD05-3171	1
8	LD12-1843	WTbl	LD04-11056W x Shillinger 432.TCS	15 SCN P III
9	LD12-3903	PT+Ltbl	LD06-7620 x Syngenta 05BR006009	15 SCN P III
10	LD12-12701a	PGbf	LD08-12446a x LD05-30588a	15 SCN P II

	Strain	Gen comp	SCN res source	Traits
1	IA3023	F5	None	
2	IA3048	F4	PI 88788	
3	LD07-3395bf	F5	PI 88788,437654	
4	U11-920017	F6	None	Rps res.
5	AR13-331019	F4	PI 606749	IDC
6	AR13-331023	F5	PI 507354,88788	
7	LD11-2170	F5	PI 88788	
8	LD12-1843	F5	PI 88788	
9	LD12-3903	F5	PI 88788	
10	LD12-12701a	F5	PI 88788	Rag1+2

2016 SCN UNIFORM TEST III

	IL SCN screen				ISU IDC	SIU SDS	SIU SDS
	HG Type 0		HG Type 2.5.7		Bruner	Shawneetown	Valmeyer
Strain	FI	rating	FI	rating	score	score	DX
1 IA3023	66	NR	64	NR	2.8	2.8	0.0
2 IA3048	2	HR	69	NR	3.0	6.7	0.0
3 LD07-3395bf	1	HR	32	MR	4.0	0.6	0.0
4 U11-920017	74	NR	49	LR	1.5	0.3	0.0
5 AR13-331019	0	HR	3	HR	1.8	0.1	0.0
6 AR13-331023	15	R	58	LR	2.8	6.9	0.3
7 LD11-2170	17	R	55	LR	3.8	3.9	0.0
8 LD12-1843	20	R	69	NR	3.5	0.1	0.3
9 LD12-3903	7	HR	63	NR	1.8	2.8	0.0
10 LD12-12701a	4	HR	54	LR	3.3	1.9	0.0

Ave. 2.4 Sus 17.8 sus 1.7

LSD 2.2 Res 0.0 Res 0.0

LSD 8.1 LSD 1.3

2016 SCN UNIFORM TEST III

Summary

Strain		Yield									Seed			
		All		Infested		Non-infested		Maturity date	Lodging score	Height inches	quality score	weight g/100	protein @13%	oil @13%
		bu/a	rank	bu/a	rank	bu/a	rank							
Locations		15*		11*		4		14	15	15	16	16	8	8
1	IA3023	63.4	7	61.5	9	68.6	2	9/24	1.9	36.5	1.7	15.2	32.4	19.9
2	IA3048	67.3	5	67.8	5	66.1	5	0	2.4	37.6	1.7	14.5	34.1	19.3
3	LD07-3395bf	69.5	3	70.2	3	67.8	4	2	2.2	34.7	2.1	15.6	31.7	20.2
4	U11-920017	57.7	10	58.1	10	56.6	10	-5	1.8	32.8	2.1	15.9	31.2	21.1
5	AR13-331019	63.1	8	63.7	7	61.7	9	3	3.3	46.3	2.2	13.1	33.9	19.3
6	AR13-331023	62.1	9	62.0	8	62.5	7	1	3.1	44.1	2.2	14.7	34.2	19.4
7	LD11-2170	72.9	1	72.8	2	73.5	1	-2	1.8	35.1	1.9	15.3	33.8	20.4
8	LD12-1843	68.4	4	69.3	4	66.1	6	1	2.1	37.8	2.0	16.8	35.3	19.5
9	LD12-3903	72.8	2	74.7	1	68.2	3	1	1.5	34.0	1.7	16.4	33.4	20.0
10	LD12-12701a	64.1	6	64.9	6	61.8	8	-3	2.4	36.3	2.1	14.9	34.0	19.8
Mean		66.1		66.5		65.3		23.9	2.2	37.5	2.0	15.2	33.4	19.9
LSD(.05)		2.4		2.9		4.1		0.8	0.2	1.1				
C.V. %		8.7		9.1		7.8		7.5	21.5	7.2				
Replications		39		27		12		38	40	40				

* Clarkton, MO not included due to high CV.

2 Year Summary

2 Year Summary														
		Yield						Seed						
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
Strain		bu/a	rank	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
Locations		28		21		7		24	27	27	28	28	16	16
1	IA3023	58.7	4	57.5	4	62.4	3	9/23	1.7	33.3	1.7	15.3	32.8	19.7
2	IA3048	64.0	3	65.0	3	60.9	4	0	2.1	34.7	1.8	14.9	34.5	19.2
3	LD07-3395bf	66.1	2	66.9	2	63.7	2	3	1.8	32.6	2.0	15.6	32.0	20.2
7	LD11-2170	68.3	1	68.9	1	66.2	1	-1	1.6	33.3	1.9	15.3	34.2	20.4

2016 SCN UNIFORM TEST III

Yield (bu/a)

		Glenwood	Muscatine	Arthur	Urbana	West Lafayette	Manhattan	Clarkton	Novelty
		IA	IA	IL	IL	IN	KS	MO	MO
SCN HG Type		1.2.5.7	2.5.7	2.5.7	2.5.7	I	I	2.5.7	2.5.7
Strain									
1	IA3023	68.2	34.4	80.0	73.7	61.5	65.6	14.1	30.5
2	IA3048	64.0	49.2	81.2	81.3	62.7	67.6	21.8	74.9
3	LD07-3395bf	64.2	54.0	89.9	85.6	70.7	68.4	20.5	58.7
4	U11-920017	58.8	25.1	82.4	71.5	59.3	60.7	9.4	47.4
5	AR13-331019	62.3	55.6	72.3	73.7	64.0	65.2	11.5	55.9
6	AR13-331023	61.6	51.4	75.9	70.6	53.6	58.0	6.9	56.3
7	LD11-2170	68.8	50.1	90.2	84.2	64.3	71.0	19.0	76.3
8	LD12-1843	69.0	28.3	89.8	82.3	66.0	70.4	7.1	73.4
9	LD12-3903	71.8	40.4	94.2	92.9	78.1	60.2	13.7	83.8
10	LD12-12701a	65.4	48.3	74.7	73.5	60.6	59.2	6.6	72.1
Average		65.4	43.7	83.1	78.9	64.1	64.6	13.1	62.9
LSD(.05)		9.3	12.0	8.9	7.1	7.1	7.2	13.5	6.1
C.V. %		6.3	12.2	5.4	4.4	7.8	6.5	49.6	5.6
Replications		2	2	2	2	3	3	3	3
Row width (in.)		30	30	30	30	30	30	30	30

Yield (rank)

		Glenwood	Muscatine	Arthur	Urbana	West Lafayette	Manhattan	Clarkton	Novelty
		IA	IA	IL	IL	IN	KS	MO	MO
SCN HG Type		1.2.5.7	2.5.7	2.5.7	2.5.7	I	I	2.5.7	2.5.7
Strain									
1	IA3023	4	8	7	6	7	5	4	10
2	IA3048	7	5	6	5	6	4	1	3
3	LD07-3395bf	6	2	3	2	2	3	2	6
4	U11-920017	10	10	5	9	9	7	7	9
5	AR13-331019	8	1	10	6	5	6	6	8
6	AR13-331023	9	3	8	10	10	10	9	7
7	LD11-2170	3	4	2	3	4	1	3	2
8	LD12-1843	2	9	4	4	3	2	8	4
9	LD12-3903	1	7	1	1	1	8	5	1
10	LD12-12701a	5	6	9	8	8	9	10	5

2016 SCN UNIFORM TEST III

Yield (bu/a)

		Rock Port	Auburn	Columbus	Plain	Ottawa	Onaga	Portageville	Hoytville
		MO	NE	NE	City	KS	KS	MO	OH
		2.5.7	2.5.7	0	OH	NI	NI	NI	NI
SCN HG Type					I				
Strain									
1	IA3023	77.6	74.8	43.8	65.6	67.6	65.9	65.8	74.9
2	IA3048	72.1	60.6	73.1	63.1	66.5	66.8	55.6	75.3
3	LD07-3395bf	81.4	67.9	62.1	69.9	74.6	68.2	59.7	68.5
4	U11-920017	63.8	65.9	50.9	56.2	63.8	59.1	41.1	62.2
5	AR13-331019	72.7	61.3	64.1	61.7	67.5	61.4	51.2	66.6
6	AR13-331023	69.3	66.4	61.7	58.6	65.2	60.8	55.8	68.1
7	LD11-2170	79.0	75.9	77.4	70.6	73.7	70.3	69.4	80.6
8	LD12-1843	75.3	79.4	67.7	62.6	67.0	65.9	60.9	70.5
9	LD12-3903	87.6	74.4	73.4	65.4	71.8	66.4	62.5	72.0
10	LD12-12701a	75.9	66.7	57.4	65.0	62.1	60.7	52.7	71.7
Average		75.5	69.3	61.8	63.9	68.0	64.6	57.5	71.1
LSD(.05)		11.9	9.4	37.9	9.1	5.9	7.5	10.3	13.1
C.V. %		9.2	5.4	21.9	8.1	5.0	6.7	8.6	12.0
Replications		3	2	2	3	3	3	3	3
Row width (in.)		30	30	30	30	30	30	30	30

Yield (rank)

		Rock Port	Auburn	Columbus	Plain	Ottawa	Onaga	Portageville	Hoytville
		MO	NE	NE	City	KS	KS	MO	OH
		2.5.7	2.5.7	0	OH	NI	NI	NI	NI
SCN HG Type					I				
Strain									
1	IA3023	4	3	10	3	4	5	2	3
2	IA3048	8	10	3	6	7	3	7	2
3	LD07-3395bf	2	5	6	2	1	2	5	7
4	U11-920017	10	8	9	10	9	10	10	10
5	AR13-331019	7	9	5	8	5	7	9	9
6	AR13-331023	9	7	7	9	8	8	6	8
7	LD11-2170	3	2	1	1	2	1	1	1
8	LD12-1843	6	1	4	7	6	5	4	6
9	LD12-3903	1	4	2	4	3	4	3	4
10	LD12-12701a	5	6	8	5	10	9	8	5

2016 SCN UNIFORM TEST III

Maturity

		Glenwood	Muscatine	Arthur	Urbana	West Lafayette	Manhattan	Clarkton	Novelty
		IA	IA	IL	IL	IN	KS	MO	MO
SCN HG Type		1.2.5.7	2.5.7	2.5.7	2.5.7	I	I	2.5.7	2.5.7
Strain									
1	IA3023	9/30		9/23	9/18	9/26	9/28	9/8	9/20
2	IA3048	-6		-2	1	-1	0	2	3
3	LD07-3395bf	-1		1	5	-1	1	5	3
4	U11-920017	4		-6	-5	-1	-8	-12	1
5	AR13-331019	-6		3	8	8	0	1	4
6	AR13-331023	-3		1	6	0	-1	1	1
7	LD11-2170	-3		-3	1	0	-4	1	1
8	LD12-1843	-1		3	7	3	1	-1	2
9	LD12-3903	-6		1	6	0	0	1	3
10	LD12-12701a	-2		-7	-4	-2	-8	-5	1
Planted		5/18	4/25	5/18	5/21	5/24	6/2	5/13	5/24

Lodging (score)

		Glenwood	Muscatine	Arthur	Urbana	West Lafayette	Manhattan	Clarkton	Novelty
		IA	IA	IL	IL	IN	KS	MO	MO
SCN HG Type		1.2.5.7	2.5.7	2.5.7	2.5.7	I	I	2.5.7	2.5.7
Strain									
1	IA3023	2.3	2.3	3.3	2.3	1.2	2.3	1.0	1.7
2	IA3048	2.8	1.8	3.3	2.8	2.3	3.0	1.0	3.7
3	LD07-3395bf	3.3	1.8	3.3	2.8	2.0	2.0	1.0	4.2
4	U11-920017	3.5	2.0	2.0	2.0	2.5	1.7	1.0	2.7
5	AR13-331019	3.5	3.0	4.3	3.5	4.3	3.3	1.0	4.2
6	AR13-331023	3.8	2.5	4.3	4.0	3.7	3.3	1.0	4.3
7	LD11-2170	2.8	2.0	2.0	1.8	1.2	2.0	1.0	3.8
8	LD12-1843	2.8	2.3	3.3	2.3	1.5	2.3	1.0	3.7
9	LD12-3903	2.3	2.0	2.3	1.8	1.2	1.0	1.0	2.0
10	LD12-12701a	3.8	2.0	2.8	3.0	3.7	3.0	1.0	4.0

2016 SCN UNIFORM TEST III

Maturity

		Rock Port	Auburn	Columbus	Plain	Ottawa	Onaga	Portageville	Hoytville
		MO	NE	NE	City	KS	KS	MO	OH
		2.5.7	2.5.7	0	OH	NI	NI	NI	NI
SCN HG Type					I				
Strain									
1	IA3023	10/10		9/19	10/2	9/24	9/21	9/12	10/7
2	IA3048	-1		3	-4	1	-1	-3	1
3	LD07-3395bf	0		8	0	4	1	1	4
4	U11-920017	-1		0	-10	-6	-7	-12	-8
5	AR13-331019	-1		7	1	3	3	0	4
6	AR13-331023	0		6	-1	3	-1	-1	3
7	LD11-2170	-1		1	-6	-1	-4	-3	-1
8	LD12-1843	0		4	-1	0	0	0	2
9	LD12-3903	-1		7	-1	3	1	0	3
10	LD12-12701a	-1		1	-6	-4	-6	-8	0
Planted									
		6/2	6/6	5/19	5/16	6/6	5/10	5/9	5/28

Lodging (score)

		Rock Port	Auburn	Columbus	Plain	Ottawa	Onaga	Portageville	Hoytville
		MO	NE	NE	City	KS	KS	MO	OH
		2.5.7	2.5.7	0	OH	NI	NI	NI	NI
SCN HG Type					I				
Strain									
1	IA3023	1.7		2.0	1.2	2.0	1.3	2.7	1.0
2	IA3048	2.2		3.5	1.2	3.0	1.3	2.3	1.0
3	LD07-3395bf	2.2		2.0	1.2	2.3	1.0	2.3	1.0
4	U11-920017	1.5		1.0	1.4	1.3	1.0	2.7	1.0
5	AR13-331019	2.8		4.0	2.9	3.3	3.0	3.7	2.0
6	AR13-331023	2.3		3.5	2.3	3.3	3.0	3.3	1.7
7	LD11-2170	1.7		1.0	1.3	2.3	1.0	2.0	1.0
8	LD12-1843	1.5		2.5	1.2	2.0	1.3	2.3	1.0
9	LD12-3903	1.5		1.0	1.2	1.0	1.0	2.3	1.0
10	LD12-12701a	2.0		1.5	1.2	3.0	1.3	3.0	1.0

2016 SCN UNIFORM TEST III

Height (inches)

		Glenwood	Muscatine	Arthur	Urbana	West Lafayette	Manhattan	Clarkton	Novelty
		IA	IA	IL	IL	IN	KS	MO	MO
		1.2.5.7	2.5.7	2.5.7	2.5.7	I	I	2.5.7	2.5.7
SCN HG Type									
Strain									
1	IA3023	47	23	40	42	44	43	25	41
2	IA3048	48	26	45	42	42	44	25	42
3	LD07-3395bf	44	23	40	38	42	40	22	39
4	U11-920017	44	17	39	39	41	38	20	38
5	AR13-331019	53	33	52	50	52	53	26	54
6	AR13-331023	54	28	48	47	52	54	26	47
7	LD11-2170	45	21	43	41	39	41	23	38
8	LD12-1843	50	23	45	44	45	45	22	42
9	LD12-3903	45	23	41	39	43	37	23	39
10	LD12-12701a	46	24	44	42	44	41	21	39

Seed Quality (score)

		Glenwood	Muscatine	Arthur	Urbana	West Lafayette	Manhattan	Clarkton	Novelty
		IA	IA	IL	IL	IN	KS	MO	MO
		1.2.5.7	2.5.7	2.5.7	2.5.7	I	I	2.5.7	2.5.7
SCN HG Type									
Strain									
1	IA3023	2.0	2.0	1.0	1.0	1.0	2.0	2.3	1.7
2	IA3048	1.0	1.0	2.0	2.0	1.0	2.0	2.3	1.5
3	LD07-3395bf	2.0	2.0	2.0	2.0	1.5	2.0	3.7	1.5
4	U11-920017	2.0	2.0	2.0	2.0	2.0	3.0	2.3	1.5
5	AR13-331019	2.0	2.0	2.0	2.0	1.5	3.0	2.3	1.7
6	AR13-331023	2.0	2.0	2.0	2.0	1.5	3.0	2.3	2.3
7	LD11-2170	2.0	2.0	2.0	2.0	1.0	2.0	2.7	3.0
8	LD12-1843	2.0	2.0	2.0	2.0	1.5	2.0	2.0	1.5
9	LD12-3903	1.0	1.0	2.0	2.0	1.0	2.0	2.3	1.7
10	LD12-12701a	2.0	2.0	2.0	2.0	1.5	3.0	3.3	1.5

2016 SCN UNIFORM TEST III

Height (inches)

		Rock Port	Auburn	Columbus	Plain	Ottawa	Onaga	Portageville	Hoytville
		MO	NE	NE	City	KS	KS	MO	OH
		2.5.7	2.5.7	0	OH	NI	NI	NI	NI
SCN HG Type					I				
Strain									
1	IA3023	39		37	29	36	36	35	32
2	IA3048	42		41	33	37	37	32	29
3	LD07-3395bf	40		33	30	37	35	32	27
4	U11-920017	36		30	30	35	33	29	26
5	AR13-331019	56		42	43	50	50	40	42
6	AR13-331023	51		44	37	49	48	39	39
7	LD11-2170	39		38	29	36	36	33	29
8	LD12-1843	40		39	31	37	38	37	31
9	LD12-3903	35		37	29	34	32	32	28
10	LD12-12701a	43		33	31	38	37	35	28

Seed Quality (score)

		Rock Port	Auburn	Columbus	Plain	Ottawa	Onaga	Portageville	Hoytville
		MO	NE	NE	City	KS	KS	MO	OH
		2.5.7	2.5.7	0	OH	NI	NI	NI	NI
SCN HG Type					I				
Strain									
1	IA3023	1.8	2.0	1.0	1.4	3.0	2.0	1.7	1.0
2	IA3048	1.5	2.0	1.0	1.9	2.0	3.0	1.7	2.0
3	LD07-3395bf	2.3	2.0	1.0	2.4	3.0	3.0	2.7	1.0
4	U11-920017	1.7	2.0	2.0	1.3	3.0	3.0	3.0	1.0
5	AR13-331019	2.7	2.0	1.0	2.9	3.0	3.0	2.5	2.0
6	AR13-331023	2.2	2.0	1.0	2.4	3.0	3.0	2.7	1.0
7	LD11-2170	2.0	1.0	1.0	1.6	2.0	3.0	2.0	1.0
8	LD12-1843	1.5	2.0	1.0	1.8	3.0	4.0	2.0	1.0
9	LD12-3903	2.0	1.0	1.0	1.6	2.0	3.0	2.0	1.0
10	LD12-12701a	2.8	1.0	1.0	1.9	3.0	3.0	2.3	2.0

2016 SCN UNIFORM TEST III

Seed Weight (g/100)

		Glenwood	Muscatine	Arthur	Urbana	West	Manhattan	Clarkton	Novelty
		IA	IA	IL	IL	Lafayette	KS	MO	MO
		1.2.5.7	2.5.7	2.5.7	2.5.7	IN	I	2.5.7	2.5.7
SCN HG Type						I	I		
Strain									
1	IA3023	14.6	14.6	15.4	15.2	14.1	17.4	10.8	11.5
2	IA3048	13.7	13.7	14.8	15.9	15.2	16.0	11.1	13.9
3	LD07-3395bf	15.8	15.8	15.4	16.4	16.6	16.1	11.4	13.7
4	U11-920017	15.1	15.1	15.7	16.8	17.2	16.6	10.2	15.1
5	AR13-331019	14.1	14.1	12.9	13.2	14.0	14.1	10.0	11.4
6	AR13-331023	14.3	14.3	14.2	15.7	14.4	15.4	10.5	13.2
7	LD11-2170	14.4	14.4	16.1	15.3	15.6	16.1	10.9	14.7
8	LD12-1843	16.7	16.7	16.8	17.6	17.7	16.2	11.4	15.7
9	LD12-3903	15.5	15.5	16.9	17.8	17.5	15.8	11.4	15.2
10	LD12-12701a	13.0	13.0	15.5	15.8	16.7	14.6	11.1	14.3

2016 SCN UNIFORM TEST III

Seed Weight (g/100)

		Rock Port	Auburn	Columbus	Plain	Ottawa	Onaga	Portageville	Hoytville
		MO	NE	NE	City	KS	KS	MO	OH
		2.5.7	2.5.7	0	OH	NI	NI	NI	NI
SCN HG Type					I				
Strain									
1	IA3023	17.6	16.5	12.9	17.5	18.1	16.2	14.2	17.2
2	IA3048	16.0	13.6	13.7	16.1	16.1	13.9	11.4	17.7
3	LD07-3395bf	17.7	15.3	15.6	16.7	18.0	15.0	13.1	17.9
4	U11-920017	17.2	16.5	15.1	16.9	16.8	17.3	14.8	18.0
5	AR13-331019	14.1	13.6	11.7	14.0	14.1	12.7	10.5	15.2
6	AR13-331023	16.6	15.3	13.6	16.8	15.9	13.9	12.7	17.9
7	LD11-2170	17.4	15.6	14.2	16.7	17.3	15.5	13.6	17.3
8	LD12-1843	18.4	17.4	15.6	18.6	17.7	17.1	15.2	19.8
9	LD12-3903	18.3	17.3	13.6	18.6	19.7	17.0	14.4	17.9
10	LD12-12701a	15.9	14.9	14.3	16.3	15.6	15.8	12.6	18.5

2016 SCN UNIFORM TEST III

Protein (%)

		Glenwood IA 1.2.5.7	Clarkton MO 2.5.7	Novelty MO 2.5.7	Rock Port MO 2.5.7	Auburn NE 2.5.7	Columbus NE 0	Plain City OH I	Hoytville OH NI
SCN HG Type									
Strain									
1	IA3023	30.8	32.8	33.4	32.8	31.3	33.1	32.4	32.6
2	IA3048	33.1	34.4	35.3	35.7	34.3	33.9	33.6	32.5
3	LD07-3395bf	30.6	33.3	32.5	32.3	29.6	32.9	32.4	30.3
4	U11-920017	31.0	31.9	32.3	31.5	29.5	33.2	29.9	30.3
5	AR13-331019	32.8	35.0	34.9	35.5	33.9	33.8	34.0	31.5
6	AR13-331023	33.6	33.6	36.9	34.3	34.5	34.5	32.9	33.5
7	LD11-2170	32.6	33.4	34.2	35.6	34.6	34.2	34.1	31.9
8	LD12-1843	34.7	34.7	34.5	36.7	35.0	36.0	35.6	35.1
9	LD12-3903	34.0	33.6	33.4	33.3	33.4	32.7	32.7	33.8
10	LD12-12701a	35.0	34.1	33.8	34.5	33.8	34.7	32.7	33.4

Oil (%)

		Glenwood IA 1.2.5.7	Clarkton MO 2.5.7	Novelty MO 2.5.7	Rock Port MO 2.5.7	Auburn NE 2.5.7	Columbus NE 0	Plain City OH I	Hoytville OH NI
SCN HG Type									
Strain									
1	IA3023	18.5	21.5	20.0	19.6	19.7	19.9	19.7	20.3
2	IA3048	17.2	20.8	19.4	18.5	18.4	19.0	20.0	20.9
3	LD07-3395bf	18.7	21.3	20.1	19.5	20.9	20.0	20.2	20.9
4	U11-920017	19.1	22.7	21.0	20.3	21.1	19.7	22.2	22.2
5	AR13-331019	17.9	19.8	19.4	19.3	19.7	19.5	18.9	20.2
6	AR13-331023	17.6	21.4	19.1	19.6	19.2	18.9	20.3	19.5
7	LD11-2170	18.6	22.7	20.4	19.8	20.0	19.5	20.6	21.9
8	LD12-1843	17.5	21.9	20.3	19.2	18.8	18.6	19.9	19.8
9	LD12-3903	18.1	22.2	19.6	20.4	19.4	19.7	20.5	20.3
10	LD12-12701a	17.3	21.3	20.3	19.1	19.9	18.7	21.0	20.9

2016 SCN PRELIMINARY TEST III

	Strain	Descriptive code	Parentage	Gen. Comp.	SCN res source	Traits
1	IA3023	WLtbl	Dairyland DSR-365 x Pioneer P9381	F5	None	
2	IA3048	WGy	Dairyland 99540 x IA2068	F4	PI 88788	
3	LD07-3395bf	WGbf	LD07-3395 RESELECTION	F5	PI 88788,437654	
4	U11-920017	PTbr	HS5-3417 x LD02-4485	F6	None	Rps res.
5	AR15-258093	PT+Gbr/bl/y/bf	ND07-4635 x AR16SCN	F3	PI 88788	
6	AR15-358011	PTbl	AR10-305198 x RxEF59-70	F3	PI 428489B	
7	AR15-358029	PTbl	AR16SCN x Var 75881	F3	PI 88788	
8	AR15-358030	PGibl	JTN-5203 x IAR1902 SCN	F3	Peking	
9	AR15-358063	PTgr	AR10-305198 x ND07-4635	F3	PI 438489B	
10	LD13-843	PLtbr	CL05-32415 x 75358-74	F5	PI 88788	
11	LD13-1750	PLtbl	LD07-3395 x LD06-7596	F5	PI 88788,437654	
12	LD13-2000	PTbl	WN0800105 x LD06-7862	F5	PI 88788	Rag 2
13	LD13-2008	WLtbl	WN0800105 x LD06-7862	F5	PI 88788	
14	LD13-2594	WLtbl	SJ0800020 x CL06-121119	F5	PI 88788	
15	LD13-2850	P+WLtbr	WN0800105 x LD07-2192	F5	PI 88788	
16	LD13-3483	WGbf	LD07-3395 x CL06-121119	F5	PI 88788,437654	
17	LD13-4542a	PLtbl/br	LD08-12430a x NE0900094	F5	PI 88788	Rag 2
18	LD13-5290a	PGibl	LD09-30224 x LD08-12438a	F5	PI 88788	Rag 1+2
19	LD13-5775a	WTbr	AR09-291001 x LD08-4767a	F5	PI 88788,437654	Rag 1
20	LD13-6152	PGibl	LD06-7984 x NE0900094	F5	PI 88788,437654	
21	LD13-6628	P+WLtbl	LD07-3395 x NE0900094	F5	PI 88788,437654	
22	LD13-6813	PLtbl	LD04-13265 x 75358-74	F5	PI 88788	

2016 SCN PRELIMINARY TEST III

	IL SCN screen				ISU IDC
	HG Type 0		HG Type 2.5.7		Bruner
Strain	FI	rating	FI	rating	score
1 IA3023	66	NR	64	NR	2.8
2 IA3048	2	HR	69	NR	3.0
3 LD07-3395bf	1	HR	32	MR	4.0
4 U11-920017	74	NR	49	LR	1.5
5 AR15-258093	20	R	72	NR	2.8
6 AR15-358011	6	HR	61	NR	3.0
7 AR15-358029	20	R	56	LR	3.3
8 AR15-358030	0	HR	4	HR	2.3
9 AR15-358063	8	HR	53	LR	2.3
10 LD13-843	13	R	57	LR	3.0
11 LD13-1750	35	MR	64	NR	4.3
12 LD13-2000	12	R	77	NR	4.0
13 LD13-2008	11	R	72	NR	2.5
14 LD13-2594	24	R	79	NR	2.3
15 LD13-2850	40	**	64	NR	3.3
16 LD13-3483	3	**	31	**	3.3
17 LD13-4542a	9	HR	70	NR	2.5
18 LD13-5290a	5	HR	64	NR	1.5
19 LD13-5775a	6	HR	38	MR	2.0
20 LD13-6152	68	NR	71	NR	3.5
21 LD13-6628	63	NR	67	NR	2.3
22 LD13-6813	56	LR	60	NR	3.3

**rep data too variable to rate

Ave. 2.4

LSD 2.2

2016 SCN PRELIMINARY TEST III

Summary

Strain		Yield								Seed				
		All		Infested		Non-infested		Maturity date	Lodging score	Height inches	quality score	weight g/100	protein @13%	oil @13%
		bu/a	rank	bu/a	rank	bu/a	rank							
Locations		8		8		0		5	7	7	8	8	4	4
1	IA3023	60.2	20	60.2	20			9/22	2.4	38	1.7	14.2	32.6	19.5
2	IA3048	68.6	7	68.6	7			0	2.9	40	1.8	13.9	34.0	19.1
3	LD07-3395bf	72.7	1	72.7	1			3	2.9	37	2.1	15.1	31.6	20.2
4	U11-920017	62.2	18	62.2	18			-3	2.3	36	2.2	15.9	31.7	20.5
5	AR15-258093	63.3	17	63.3	17			-4	3.5	38	2.4	15.2	34.3	20.1
6	AR15-358011	58.2	22	58.2	22			0	3.3	40	1.9	14.4	36.7	18.0
7	AR15-358029	65.8	13	65.8	13			-2	3.1	36	2.1	15.4	35.7	19.8
8	AR15-358030	69.7	5	69.7	5			0	3.6	44	2.5	13.9	34.3	19.8
9	AR15-358063	58.5	21	58.5	21			2	3.3	43	2.2	16.1	33.9	18.6
10	LD13-843	64.7	15	64.7	15			1	2.8	43	2.1	15.6	32.1	19.5
11	LD13-1750	64.8	14	64.8	14			3	3.4	41	2.0	15.7	33.5	19.1
12	LD13-2000	68.5	8	68.5	8			1	2.3	36	2.0	16.3	34.7	18.1
13	LD13-2008	65.9	12	65.9	12			0	2.9	38	1.9	15.7	35.5	17.7
14	LD13-2594	68.3	9	68.3	9			5	2.4	42	2.1	15.5	35.1	18.1
15	LD13-2850	71.5	2	71.5	2			2	2.7	42	1.7	16.1	33.0	18.2
16	LD13-3483	69.8	4	69.8	4			2	2.9	36	2.3	14.6	33.8	18.2
17	LD13-4542a	66.1	11	66.1	11			-1	3.0	38	1.9	17.3	33.0	20.1
18	LD13-5290a	69.5	6	69.5	6			-3	1.8	38	1.8	13.7	32.7	19.6
19	LD13-5775a	70.0	3	70.0	3			1	2.8	45	1.8	13.7	33.3	19.4
20	LD13-6152	67.5	10	67.5	10			0	2.1	37	1.8	16.0	33.9	20.2
21	LD13-6628	63.9	16	63.9	16			-1	2.7	38	2.1	14.0	32.8	19.6
22	LD13-6813	60.8	19	60.8	19			2	2.9	42	2.0	16.1	34.2	19.3
Mean		65.9		65.9				22.7	2.8	39.6	2.0	15.2	33.7	19.2
LSD(.05)		3.9		3.9				2.4	0.4	1.6				
C.V. %		8.5		8.5				12.9	17.8	5.5				
Replications		16		16				12	14	14				

2016 SCN PRELIMINARY TEST III

Yield (bu/a)									
		Glenwood IA 1.2.5.7	Muscatine IA 2.5.7	Arthur IL 2.5.7	Urbana IL 2.5.7	Manhattan KS I	Novelty MO 2.5.7	Auburn NE 2.5.7	Columbus NE 0
SCN HG Type									
Strain									
1	IA3023	57.5	40.9	80.0	73.7	54.2	53.1	77.8	45.9
2	IA3048	62.6	45.8	81.2	81.3	63.6	77.5	58.9	77.8
3	LD07-3395bf	65.3	49.2	89.9	85.6	74.7	73.8	67.4	75.8
4	U11-920017	61.0	34.8	82.4	71.5	53.7	73.0	76.1	46.1
5	AR15-258093	61.9	47.3	67.5	73.1	59.3	65.7	61.7	69.9
6	AR15-358011	55.5	26.4	73.3	70.5	50.1	65.5	62.3	62.5
7	AR15-358029	54.1	50.2	76.9	78.2	66.0	62.3	77.7	61.3
8	AR15-358030	68.1	54.6	77.8	79.0	58.2	85.9	74.6	59.8
9	AR15-358063	60.0	26.5	68.3	75.8	52.1	69.5	53.5	62.0
10	LD13-843	61.3	47.8	84.2	78.2	53.3	68.0	62.1	63.1
11	LD13-1750	55.3	53.1	75.2	77.1	66.2	78.5	50.9	62.4
12	LD13-2000	59.5	57.5	76.0	77.8	60.6	75.7	68.1	72.3
13	LD13-2008	52.8	52.1	81.5	80.4	61.9	65.7	61.6	72.3
14	LD13-2594	55.0	57.5	74.3	81.2	71.5	68.6	74.2	65.5
15	LD13-2850	65.6	52.5	79.2	83.6	65.9	79.5	76.3	69.4
16	LD13-3483	69.4	55.7	86.4	81.1	69.0	66.4	65.1	65.4
17	LD13-4542a	63.1	35.1	84.8	83.7	64.1	76.3	71.2	50.3
18	LD13-5290a	65.7	34.5	81.5	79.9	66.5	79.8	74.0	73.8
19	LD13-5775a	68.5	57.2	80.9	83.1	59.6	72.8	69.5	68.0
20	LD13-6152	65.5	46.8	76.5	79.1	64.9	84.0	64.2	58.6
21	LD13-6628	58.1	60.4	80.7	77.3	62.8	47.7	61.5	64.1
22	LD13-6813	52.4	51.1	76.7	76.7	62.5	48.0	65.7	54.8
Average		60.8	47.1	78.9	78.5	61.8	69.9	67.0	63.6
LSD(.05)		8.9	9.7	8.9	7.1	7.6	14.7	16.9	15.6
C.V. %		7.1	9.9	5.4	4.4	5.9	10.1	10.3	9.2
Replications		2	2	2	2	2	2	2	2
Row width (in.)		30	30	30	30	30	30	30	30

2016 SCN PRELIMINARY TEST III

Yield (rank)

		Glenwood	Muscatine	Arthur	Urbana	Manhattan	Novelty	Auburn	Columbus
		IA	IA	IL	IL	KS	MO	NE	NE
		1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
SCN HG Type									
Strain									
1	IA3023	16	17	11	19	18	20	1	22
2	IA3048	9	16	8	5	10	6	20	1
3	LD07-3395bf	7	12	1	1	1	9	11	2
4	U11-920017	12	19	5	21	19	10	4	21
5	AR15-258093	10	14	22	20	16	16	17	6
6	AR15-358011	17	22	20	22	22	18	15	13
7	AR15-358029	20	11	14	12	6	19	2	16
8	AR15-358030	3	6	13	11	17	1	5	17
9	AR15-358063	13	21	21	18	21	12	21	15
10	LD13-843	11	13	4	12	20	14	16	12
11	LD13-1750	18	7	18	16	5	5	22	14
12	LD13-2000	14	2	17	14	14	8	10	5
13	LD13-2008	21	9	6	8	13	17	18	5
14	LD13-2594	19	3	19	6	2	13	6	9
15	LD13-2850	5	8	12	3	7	4	3	7
16	LD13-3483	1	5	2	7	3	15	13	10
17	LD13-4542a	8	18	3	2	9	7	8	20
18	LD13-5290a	4	20	6	9	4	3	7	3
19	LD13-5775a	2	4	9	4	15	11	9	8
20	LD13-6152	6	15	16	10	8	2	14	18
21	LD13-6628	15	1	10	15	11	22	19	11
22	LD13-6813	22	10	15	17	12	21	12	19

2016 SCN PRELIMINARY TEST III

Maturity

		Glenwood	Muscatine	Arthur	Urbana	Manhattan	Novelty	Auburn	Columbus
		IA	IA	IL	IL	KS	MO	NE	NE
SCN HG Type		1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
Strain									
1	IA3023	9/24		9/23	9/18	9/27	9/21		9/21
2	IA3048	-1		-2	1	-2	3		2
3	LD07-3395bf	2		1	5	2	3		6
4	U11-920017	1		-6	-5	-8	-1		-2
5	AR15-258093	2		-8	-6	-9	-2		-4
6	AR15-358011	3		-3	1	-5	0		3
7	AR15-358029	2		-4	-2	-5	-2		0
8	AR15-358030	2		-3	3	-5	3		1
9	AR15-358063	2		1	5	-3	3		4
10	LD13-843	-2		0	5	-4	2		4
11	LD13-1750	3		3	7	-1	3		2
12	LD13-2000	5		-3	4	-5	1		6
13	LD13-2008	3		-4	1	-4	1		4
14	LD13-2594	-1		4	9	5	3		10
15	LD13-2850	3		1	4	-3	3		7
16	LD13-3483	6		1	3	-1	0		5
17	LD13-4542a	-1		1	0	-5	2		0
18	LD13-5290a	1		-8	-1	-7	-2		0
19	LD13-5775a	4		1	2	-3	1		-1
20	LD13-6152	13		-4	-4	-5	-1		-1
21	LD13-6628	1		-4	0	-1	-1		0
22	LD13-6813	-2		2	5	3	2		5
Planted		5/18	4/25	5/18	5/21	6/2	5/24	6/6	5/19

2016 SCN PRELIMINARY TEST III

Lodging (score)

		Glenwood	Muscatine	Arthur	Urbana	Manhattan	Novelty	Auburn	Columbus
		IA	IA	IL	IL	KS	MO	NE	NE
SCN HG Type		1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
Strain									
1	IA3023	2.5	2.5	3.3	2.3	2.5	1.8		2.0
2	IA3048	2.8	1.8	3.3	2.8	3.0	3.5		3.0
3	LD07-3395bf	3.0	2.0	3.3	2.8	3.0	4.5		2.0
4	U11-920017	3.8	2.3	2.0	2.0	2.5	2.8		1.0
5	AR15-258093	4.0	1.8	4.0	2.8	4.0	4.3		3.5
6	AR15-358011	3.8	3.3	4.0	2.8	3.0	4.0		2.5
7	AR15-358029	4.0	2.3	3.3	2.5	4.0	4.0		2.0
8	AR15-358030	3.8	2.8	4.0	3.5	4.0	4.3		3.0
9	AR15-358063	3.8	3.3	3.5	2.5	3.5	4.3		2.0
10	LD13-843	3.3	2.5	3.3	2.8	3.0	3.8		1.0
11	LD13-1750	4.0	2.5	3.8	3.5	3.5	4.3		2.5
12	LD13-2000	2.5	1.8	2.3	1.8	3.0	3.3		1.5
13	LD13-2008	3.3	2.0	2.8	2.3	3.5	4.3		2.0
14	LD13-2594	2.8	1.8	3.3	2.3	2.0	3.5		1.0
15	LD13-2850	2.5	2.3	3.5	2.8	3.5	3.0		1.5
16	LD13-3483	3.0	2.0	3.5	2.8	3.0	4.0		2.0
17	LD13-4542a	3.5	2.3	3.3	2.3	4.5	3.5		2.0
18	LD13-5290a	2.3	1.8	1.8	2.0	1.5	1.8		1.5
19	LD13-5775a	3.0	2.5	3.5	2.5	2.5	3.5		2.0
20	LD13-6152	2.5	1.3	2.0	2.5	2.0	3.5		1.0
21	LD13-6628	3.3	1.8	2.3	3.5	3.0	3.3		2.0
22	LD13-6813	3.3	2.8	3.3	2.8	2.5	3.5		2.0

2016 SCN PRELIMINARY TEST III

Height (inches)

		Glenwood	Muscatine	Arthur	Urbana	Manhattan	Novelty	Auburn	Columbus
		IA	IA	IL	IL	KS	MO	NE	NE
		1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
SCN HG Type									
Strain									
1	IA3023	47	22	40	42	43	41		33
2	IA3048	47	25	45	42	41	43		39
3	LD07-3395bf	44	24	40	38	42	37		34
4	U11-920017	43	19	39	39	41	38		32
5	AR15-258093	46	23	42	38	40	39		36
6	AR15-358011	50	19	45	46	40	47		38
7	AR15-358029	42	25	40	38	40	36		31
8	AR15-358030	53	30	45	50	49	44		39
9	AR15-358063	52	23	51	48	46	45		38
10	LD13-843	53	29	48	49	45	43		38
11	LD13-1750	49	26	44	46	44	41		41
12	LD13-2000	44	24	39	38	39	37		34
13	LD13-2008	46	25	41	39	43	40		35
14	LD13-2594	50	29	48	44	48	43		37
15	LD13-2850	51	22	48	45	46	44		38
16	LD13-3483	43	24	41	40	37	39		31
17	LD13-4542a	47	20	42	41	43	42		34
18	LD13-5290a	46	25	44	40	37	40		33
19	LD13-5775a	52	28	47	49	53	47		41
20	LD13-6152	45	25	42	41	42	39		28
21	LD13-6628	44	25	41	41	43	38		36
22	LD13-6813	51	29	45	47	48	42		36

2016 SCN PRELIMINARY TEST III

Seed Quality (score)

		Glenwood IA 1.2.5.7	Muscatine IA 2.5.7	Arthur IL 2.5.7	Urbana IL 2.5.7	Manhattan KS I	Novelty MO 2.5.7	Auburn NE 2.5.7	Columbus NE 0
SCN HG Type									
Strain									
1	IA3023	2.0	2.0	1.0	1.0	3.0	1.5	2.0	1.0
2	IA3048	1.0	1.0	2.0	2.0	3.0	1.5	2.0	2.0
3	LD07-3395bf	3.0	3.0	2.0	2.0	3.0	2.0	1.0	1.0
4	U11-920017	2.0	2.0	2.0	2.0	4.0	1.5	2.0	2.0
5	AR15-258093	3.0	3.0	3.0	2.0	3.0	1.5	2.0	2.0
6	AR15-358011	2.0	2.0	2.0	2.0	3.0	1.5	2.0	1.0
7	AR15-358029	3.0	3.0	2.0	2.0	3.0	1.5	1.0	1.0
8	AR15-358030	4.0	4.0	2.0	2.0	3.0	2.0	2.0	1.0
9	AR15-358063	2.0	2.0	2.0	2.0	4.0	1.5	2.0	2.0
10	LD13-843	2.0	2.0	2.0	2.0	3.0	1.5	2.0	2.0
11	LD13-1750	2.0	2.0	2.0	2.0	3.0	2.0	2.0	1.0
12	LD13-2000	2.0	2.0	3.0	2.0	3.0	2.3	1.0	1.0
13	LD13-2008	2.0	2.0	2.0	2.0	3.0	1.5	2.0	1.0
14	LD13-2594	3.0	3.0	2.0	2.0	2.0	1.8	2.0	1.0
15	LD13-2850	1.0	1.0	2.0	2.0	3.0	1.5	2.0	1.0
16	LD13-3483	3.0	3.0	2.0	2.0	3.0	2.0	2.0	1.0
17	LD13-4542a	2.0	2.0	2.0	2.0	3.0	1.5	2.0	1.0
18	LD13-5290a	2.0	2.0	2.0	2.0	3.0	1.5	1.0	1.0
19	LD13-5775a	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
20	LD13-6152	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
21	LD13-6628	3.0	3.0	2.0	2.0	2.0	1.5	2.0	1.0
22	LD13-6813	2.0	2.0	2.0	2.0	3.0	2.0	2.0	1.0

2016 SCN PRELIMINARY TEST III

Seed Weight (g/100)

		Glenwood IA 1.2.5.7	Muscatine IA 2.5.7	Arthur IL 2.5.7	Urbana IL 2.5.7	Manhattan KS I	Novelty MO 2.5.7	Auburn NE 2.5.7	Columbus NE 0
SCN HG Type									
Strain									
1	IA3023	13.3	13.3	15.4	15.2	14.3	11.7	17.0	13.8
2	IA3048	13.0	13.0	14.8	15.9	11.2	15.2	13.9	13.9
3	LD07-3395bf	14.7	14.7	15.4	16.4	13.9	15.0	15.0	15.5
4	U11-920017	15.6	15.6	15.7	16.8	14.3	15.2	17.2	16.6
5	AR15-258093	15.3	15.3	16.4	15.5	13.0	14.6	15.7	15.4
6	AR15-358011	13.6	13.6	15.5	16.2	11.4	15.0	15.4	14.8
7	AR15-358029	14.3	14.3	17.2	16.8	13.1	14.9	16.4	16.4
8	AR15-358030	14.9	14.9	13.2	14.1	11.1	15.7	14.1	13.3
9	AR15-358063	16.4	16.4	16.7	17.2	12.9	16.8	17.1	15.5
10	LD13-843	15.7	15.7	16.6	16.3	13.0	15.7	16.5	15.3
11	LD13-1750	15.6	15.6	17.0	17.1	13.3	16.2	16.0	14.7
12	LD13-2000	15.3	15.3	17.4	18.3	14.0	16.1	17.9	16.4
13	LD13-2008	14.5	14.5	17.7	17.6	13.5	15.8	16.3	15.4
14	LD13-2594	14.8	14.8	17.9	18.0	12.2	14.3	16.7	15.4
15	LD13-2850	15.7	15.7	17.0	16.3	13.1	16.9	17.8	16.6
16	LD13-3483	14.7	14.7	16.2	16.2	11.8	13.4	15.1	14.6
17	LD13-4542a	15.9	15.9	18.5	19.2	14.5	19.0	18.9	16.3
18	LD13-5290a	13.0	13.0	15.0	14.8	11.9	14.0	14.4	13.3
19	LD13-5775a	13.6	13.6	14.6	15.4	11.4	13.5	14.8	12.6
20	LD13-6152	16.6	16.6	16.3	16.5	13.6	17.3	16.1	14.6
21	LD13-6628	14.5	14.5	15.2	15.2	13.5	12.3	14.8	12.0
22	LD13-6813	14.3	14.3	18.1	18.1	15.9	16.1	17.2	15.0

2016 SCN PRELIMINARY TEST III

Protein (%)

		Glenwood	Muscatine	Arthur	Urbana	Manhattan	Novelty	Auburn	Columbus
		IA	IA	IL	IL	KS	MO	NE	NE
		1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
SCN HG Type									
Strain									
1	IA3023	31.9					32.1	32.8	33.4
2	IA3048	34.4					34.1	33.3	34.1
3	LD07-3395bf	30.4					31.9	32.0	31.9
4	U11-920017	30.9					32.5	31.0	32.1
5	AR15-258093	34.4					35.3	33.3	34.1
6	AR15-358011	36.2					37.1	35.8	37.6
7	AR15-358029	36.4					35.5	34.6	36.1
8	AR15-358030	33.6					34.8	32.2	36.5
9	AR15-358063	34.4					34.3	33.2	33.9
10	LD13-843	32.0					33.5	30.3	32.6
11	LD13-1750	32.3					34.4	33.1	34.2
12	LD13-2000	34.4					35.0	34.7	34.6
13	LD13-2008	36.3					34.5	35.2	35.9
14	LD13-2594	35.9					35.2	34.0	35.4
15	LD13-2850	32.5					32.4	33.5	33.5
16	LD13-3483	33.2					33.8	33.3	34.9
17	LD13-4542a	33.7					32.3	31.5	34.3
18	LD13-5290a	32.0					33.1	32.2	33.5
19	LD13-5775a	32.0					33.7	33.6	34.0
20	LD13-6152	33.1					34.7	32.5	35.3
21	LD13-6628	32.8					33.9	31.2	33.3
22	LD13-6813	34.3					34.1	34.2	34.4

2016 SCN PRELIMINARY TEST III

Oil (%)

		Glenwood	Muscatine	Arthur	Urbana	Manhattan	Novelty	Auburn	Columbus
		IA	IA	IL	IL	KS	MO	NE	NE
SCN HG Type		1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
Strain									
1	IA3023	17.8					20.5	19.1	20.6
2	IA3048	17.9					19.8	19.4	19.2
3	LD07-3395bf	18.9					21.1	19.9	21.0
4	U11-920017	19.5					21.3	20.5	20.5
5	AR15-258093	18.5					19.7	20.6	21.6
6	AR15-358011	15.9					19.2	18.6	18.1
7	AR15-358029	18.5					20.4	20.3	19.8
8	AR15-358030	18.6					20.3	20.7	19.5
9	AR15-358063	16.6					19.0	18.8	20.0
10	LD13-843	18.3					19.5	20.6	19.5
11	LD13-1750	17.9					20.1	18.9	19.8
12	LD13-2000	17.0					18.9	18.1	18.4
13	LD13-2008	15.5					19.4	18.0	18.0
14	LD13-2594	16.2					20.0	18.0	18.4
15	LD13-2850	17.7					18.2	18.2	18.8
16	LD13-3483	17.1					19.0	18.3	18.4
17	LD13-4542a	19.0					20.6	20.7	20.1
18	LD13-5290a	18.2					20.3	20.5	19.5
19	LD13-5775a	18.5					19.7	19.8	19.5
20	LD13-6152	19.7					21.1	20.3	19.8
21	LD13-6628	18.3					20.5	20.3	19.5
22	LD13-6813	17.9					20.3	19.9	19.1

2016 SCN UNIFORM TEST IV

	Strain	Descriptive code	Parentage	Previous testing
1	LD06-7620	PLtbl	IA3023 x LD00- 3309	5
2	LD07-3395bf	WGbf	LD07-3395 RESELECTION	3
3	LD00-2817P	PGibl	Ina x Dwight	8
4	K11-2363	PLtbl	435.TCS x LD05-30578a	2
5	K13-1515	PLtbl	LG06-5920 x LD04-13265	1
6	K13-1615	PGibl	LS07-3125 x 435.TCS	1
7	LD12-8677	WTbl	LD04-11056W x Shillinger 435.TCS	1
8	LD12-10534	WLtbl	LG04-6000 x (LD00-3309(5) x LD07-5065)	15 UTP IV

	Strain	Gen comp	SCN res source	Traits
1	LD06-7620	F5	PI 88788	
2	LD07-3395bf	F5	PI 88788,437654	
3	LD00-2817P	F5	PI 88788,437654	
4	K11-2363	F4	PI 88788	
5	K13-1515	F4	PI 88788	STS
6	K13-1615	F4	PI 88788	STS
7	LD12-8677	F5	PI 88788	STS
8	LD12-10534	F5	PI 88788	

	Strain	IL SCN screen				ISU IDC	SIU SDS	SIU SDS
		HG Type 0		HG Type 2.5.7		Bruner	Shawneetown	Valmeyer
		FI	rating	FI	rating	score	score	DX
1	LD06-7620	66	NR	64	NR	2.8	2.8	0.0
2	LD07-3395bf	2	HR	69	NR	3.0	6.7	0.0
3	LD00-2817P	1	HR	32	MR	4.0	0.6	0.0
4	K11-2363	74	NR	49	LR	1.5	0.3	0.0
5	K13-1515	0	HR	3	HR	1.8	0.1	0.0
6	K13-1615	15	R	58	LR	2.8	6.9	0.3
7	LD12-8677	17	R	55	LR	3.8	3.9	0.0
8	LD12-10534	20	R	69	NR	3.5	0.1	0.3

Ave. 2.4 Sus 17.8 sus 1.7
LSD 2.2 Res 0.0 Res 0.0
LSD 8.1 LSD 1.3

2016 SCN UNIFORM TEST IV

Summary

Strain		Yield									Seed			
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
Locations		10		7		3		10	10	10	9	9	5	5
1	LD06-7620	63.9	3	61.2	3	69.7	3	9/27	2.2	37	2.2	15.0	35.1	19.3
2	LD07-3395bf	66.3	1	64.2	1	70.8	2	-1	2.3	34	2.7	15.5	32.6	20.6
3	LD00-2817P	62.7	5	61.1	4	66.2	6	2	2.5	43	2.6	13.6	33.2	20.3
4	K11-2363	64.4	2	62.4	2	68.9	4	0	1.4	34	2.2	16.3	34.4	20.4
5	K13-1515	59.2	7	57.1	8	63.7	7	4	3.5	42	2.5	15.0	33.3	20.9
6	K13-1615	62.6	6	60.2	5	67.9	5	0	2.0	39	2.1	14.8	34.5	20.6
7	LD12-8677	59.2	7	57.9	7	62.2	8	-2	2.4	39	2.3	16.3	34.6	21.2
8	LD12-10534	63.8	4	60.2	5	72.1	1	0	2.1	37	2.2	14.7	33.2	20.3
Mean		62.8		60.5		67.7		27.7	2.3	38.1	2.4	15.2	33.9	20.4
LSD(.05)		2.7		3.6		3.6		1.0	0.2	1.2				
C.V. %		8.4		9.6		5.7		6.8	20.9	6.1				
Replications		28		19		9		28	28	28				

2 Year Summary

Strain		Yield									Seed			
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank							
Locations		19		12		7		18	19	19	17	17	10	10
1	LD06-7620	60.0	4	58.8	2	62.2	4	9/25	1.8	33	2.4	14.4	34.6	19.3
2	LD07-3395bf	60.4	3	59.3	1	62.4	3	-1	1.9	32	2.6	15.1	32.8	20.5
3	LD00-2817P	59.7	5	58.3	3	62.1	5	3	2.2	39	2.6	13.2	33.4	20.1
4	K11-2363	60.6	1	58.2	4	64.7	2	2	1.6	31	2.2	15.9	34.0	20.0
5	K13-1515	58.4	7	56.6	7	61.5	6	5	3.0	39	2.5	14.4	33.3	20.4
6	K13-1615	60.6	1	57.8	6	65.3	1	2	1.8	36	2.2	14.2	34.6	20.3
7	LD12-8677	59.4	6	58.1	5	61.5	6	-1	2.1	36	2.4	15.9	35.0	20.8

2016 SCN UNIFORM TEST IV

Yield (bu/a)

		Carbon-	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-	Onaga	Ottawa
		dale	IL	IL	KS	MO	MO	TN	ville	KS	KS
		IL	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	MO	NI	NI
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain											
1	LD06-7620	48.4	70.3	78.8	69.8	24.1	86.2	52.7	60.9	72.4	76.0
2	LD07-3395bf	48.8	74.5	84.8	72.5	23.9	82.6	65.5	63.7	72.0	76.8
3	LD00-2817P	50.3	72.1	77.1	66.2	31.5	76.8	56.2	62.5	63.6	72.7
4	K11-2363	46.2	67.2	73.9	71.9	26.2	89.3	64.7	63.8	69.7	73.2
5	K13-1515	36.4	67.2	69.8	65.7	14.3	80.0	69.4	58.4	62.6	70.1
6	K13-1615	48.4	67.1	80.1	69.7	14.5	83.3	61.4	65.4	67.2	71.2
7	LD12-8677	63.2	63.5	70.2	58.7	21.4	78.1	52.8	59.9	65.4	61.3
8	LD12-10534	54.6	64.3	76.7	70.6	12.2	83.7	61.8	68.7	72.5	75.2
Average											
LSD(.05)		49.6	68.3	76.4	68.1	21.0	82.5	60.6	62.9	67.8	72.0
C.V. %		12.8	7.6	10.5	4.4	12.4	6.5	7.8	10.9	6.6	4.9
Replications		19.3	5.4	6.8	3.9	27.6	4.5	7.3	8.1	5.6	4.0
Row width (in.)		3	2	2	3	3	3	3	3	3	3

Yield (rank)

		Carbon-	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-	Onaga	Ottawa
		dale	IL	IL	KS	MO	MO	TN	ville	KS	KS
		IL	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	MO	NI	NI
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain											
1	LD06-7620	5	3	3	4	3	2	8	6	2	2
2	LD07-3395bf	4	1	1	1	4	5	2	4	3	1
3	LD00-2817P	3	2	4	6	1	8	6	5	7	5
4	K11-2363	7	4	6	2	2	1	3	3	4	4
5	K13-1515	8	5	8	7	7	6	1	8	8	7
6	K13-1615	6	6	2	5	6	4	5	2	5	6
7	LD12-8677	1	8	7	8	5	7	7	7	6	8
8	LD12-10534	2	7	5	3	8	3	4	1	1	3

2016 SCN UNIFORM TEST IV

Maturity

		Carbon-	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-	Onaga	Ottawa
		dale	IL	IL	KS	MO	MO	TN	ville	KS	KS
		IL	IL	IL	KS	MO	MO	TN	MO	KS	KS
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain											
1	LD06-7620	10/06	9/29	9/30	10/1	9/12	10/16	9/18	9/16	9/25	9/28
2	LD07-3395bf	0	-2	-4	-2	4	-6	2	-3	-2	0
3	LD00-2817P	-1	3	1	2	9	-1	3	2	3	3
4	K11-2363	0	-1	-1	0	6	-5	2	1	2	1
5	K13-1515	1	2	4	4	6	0	4	2	9	5
6	K13-1615	1	1	-1	0	0	-5	3	1	3	3
7	LD12-8677	-2	-4	-3	1	1	-8	0	-2	-1	0
8	LD12-10534	2	-2	0	3	-2	-1	2	-2	1	3
Planted		6/10	5/25	5/21	6/2	5/13	6/2	5/19	5/9	5/10	6/6

Lodging (score)

		Carbon-	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-	Onaga	Ottawa
		dale	IL	IL	KS	MO	MO	TN	ville	KS	KS
		IL	IL	IL	KS	MO	MO	TN	MO	KS	KS
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain											
1	LD06-7620	2.0	2.5	2.5	3.0	1.0	2.8	2.0	2.7	1.7	1.3
2	LD07-3395bf	2.0	2.8	3.3	3.3	1.0	1.8	1.7	3.0	1.0	2.7
3	LD00-2817P	3.0	2.5	2.8	3.0	1.0	2.5	2.0	3.3	1.7	3.0
4	K11-2363	1.0	1.0	1.8	1.7	1.0	1.5	1.7	2.7	1.0	1.0
5	K13-1515	5.0	3.5	3.8	4.0	1.0	3.5	3.7	4.0	3.7	3.7
6	K13-1615	3.0	1.5	2.3	2.7	1.0	1.5	2.0	2.7	1.7	1.7
7	LD12-8677	2.0	2.5	3.0	3.7	1.0	2.3	1.3	3.0	2.0	3.0
8	LD12-10534	3.0	2.0	2.8	2.3	1.0	3.0	1.3	2.7	1.7	1.7

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Height (inches)

		Carbon- dale IL	Neoga IL	Urbana IL	Manhattan KS	Clarkton MO	Rock Port MO	Jackson TN	Portage- ville MO	Onaga KS	Ottawa KS
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain											
1	LD06-7620	36	36	43	44	26	44	28	36	39	36
2	LD07-3395bf	33	35	40	42	24	39	30	33	34	36
3	LD00-2817P	39	43	48	50	34	48	36	43	46	45
4	K11-2363	30	32	39	39	26	38	29	37	35	35
5	K13-1515	37	41	50	49	28	46	40	41	43	45
6	K13-1615	38	37	46	46	26	45	33	37	41	39
7	LD12-8677	36	38	46	43	29	47	32	40	38	40
8	LD12-10534	36	34	42	44	23	45	32	37	40	39

Seed Quality (score)

		Carbon- dale IL	Neoga IL	Urbana IL	Manhattan KS	Clarkton MO	Rock Port MO	Jackson TN	Portage- ville MO	Onaga KS	Ottawa KS
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain											
1	LD06-7620		2.0	2.0	3.0	1.3	1.8	2.3	2.7	3.0	2.0
2	LD07-3395bf		2.0	2.0	3.0	3.7	2.5	2.0	2.7	3.0	3.0
3	LD00-2817P		2.0	2.0	3.0	3.0	2.0	2.7	3.0	3.0	3.0
4	K11-2363		2.0	2.0	3.0	1.7	2.7	2.0	1.7	3.0	2.0
5	K13-1515		2.0	2.0	3.0	2.7	3.3	2.0	2.7	3.0	2.0
6	K13-1615		2.0	2.0	2.0	2.3	1.7	2.0	2.0	3.0	2.0
7	LD12-8677		2.0	2.0	3.0	2.0	1.7	2.0	2.3	3.0	3.0
8	LD12-10534		2.0	2.0	2.0	2.3	2.2	2.0	2.0	3.0	2.0

Seed Weight (g/100)

		Carbon- dale IL	Neoga IL	Urbana IL	Manhattan KS	Clarkton MO	Rock Port MO	Jackson TN	Portage- ville MO	Onaga KS	Ottawa KS
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain											
1	LD06-7620		15.3	15.7	17.1	11.6	15.9	13.9	13.7	15.3	16.3
2	LD07-3395bf		15.5	16.0	17.9	11.9	16.6	14.9	13.3	15.1	18.7
3	LD00-2817P		14.3	14.2	16.6	10.8	14.6	12.4	11.0	13.4	14.7
4	K11-2363		16.6	18.0	19.2	12.5	17.8	15.4	14.0	15.4	17.6
5	K13-1515		15.8	16.3	17.5	12.1	16.2	14.5	12.3	13.9	16.5
6	K13-1615		14.8	16.2	17.1	11.2	16.2	14.3	12.3	15.5	16.0
7	LD12-8677		16.9	17.6	19.9	11.8	18.4	15.3	13.5	16.0	17.3
8	LD12-10534		14.3	15.7	17.2	10.2	17.2	13.7	12.6	14.2	17.5

2016 SCN UNIFORM TEST IV

Protein (%)

		Carbon-	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-	Onaga	Ottawa
		dale	IL	IL	KS	MO	MO	TN	ville	KS	KS
		IL	IL	IL	KS	MO	MO	TN	MO	KS	KS
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain											
1	LD06-7620		35.8	34.7		34.5	35.0	35.3			
2	LD07-3395bf		32.6	33.0		33.7	32.1	31.5			
3	LD00-2817P		32.2	33.4		33.8	33.5	33.2			
4	K11-2363		34.8	35.1		34.1	34.9	33.3			
5	K13-1515		34.3	32.6		33.3	33.2	33.0			
6	K13-1615		34.9	34.4		35.2	34.1	34.0			
7	LD12-8677		34.9	35.8		35.5	33.7	33.3			
8	LD12-10534		34.1	33.6		34.4	31.0	32.9			

Oil (%)

		Carbon-	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-	Onaga	Ottawa
		dale	IL	IL	KS	MO	MO	TN	ville	KS	KS
		IL	IL	IL	KS	MO	MO	TN	MO	KS	KS
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain											
1	LD06-7620		19.4	19.1		20.7	18.0	19.1			
2	LD07-3395bf		20.5	20.3		20.9	19.9	21.3			
3	LD00-2817P		21.7	19.8		21.2	19.1	19.8			
4	K11-2363		21.0	18.9		21.8	18.3	21.8			
5	K13-1515		21.1	20.4		21.3	19.8	21.8			
6	K13-1615		20.4	20.1		21.9	19.0	21.5			
7	LD12-8677		20.4	20.8		22.2	20.6	22.0			
8	LD12-10534		20.0	20.3		20.8	18.9	21.5			

2016 SCN PRELIMINARY TEST IV

	Strain	Descriptive		Gen. Comp.	SCN res source	Traits
		code	Parentage			
1	LD06-7620	PLtbl	IA3023 x LD00-3309	F5	PI 88788	
2	LD07-3395bf	WGbf	LD07-3395 RESELECTION	F5	PI 88788,437654	
3	LD00-2817P	PGibl	Ina x Dwight	F5	PI 88788,437654	
4	AR15-358031	PGibl	JTN-5203 x IAR1902 SCN	F3	Peking	
5	K14-1094	WLtbl	K07-1633 x LD04-13265	F4	PI 88788	
6	K14-1140	PLtbl	LD04-13265 x K07-1633	F4	PI 88788	
7	K14-1141	WLtbl	LD04-13265 x K07-1633	F4	PI 88788	
8	K14-1153	WLtbl	LD04-13265 x K07-1633	F4	PI 88788	
9	K14-1263	PLtbl	LG06-5920 x 435.TCS	F4	PI 88788	
10	K14-1266	PTbl	LG06-5920 x 435.TCS	F4	PI 88788	STS
11	K14-1267	PLtbl	LG06-5920 x 435.TCS	F4	PI 88788	STS
12	K14-1277	PLtbl	LG06-5920 x 435.TCS	F4	PI 88788	
13	K14-1404	P+WTbl	LS07-3125 x 435.TCS	F4	PI 88788	STS
14	K14-1405	P+WTbl	LS07-3125 x 435.TCS	F4	PI 88788	STS
15	LD13-3673	WTbl	BN0800009 x CL05-32415	F5	PI 88788	
16	LD13-7015	PLtbl	LD07-3395 x LS05-0202	F5	PI 88788,437654	
17	LD13-7022	PLtbl	LD07-3395 x LS05-0202	F5	PI 88788,437654	
18	LD13-8466	WTbl	U05-226055 x (LD00-2817(5) x LDX01-1-65)	F5	PI 88788,437654,468916	scn soja
19	LD13-8769	PGibl	LD06-7596 x (LD00-3309(5) x LD07-5065)	F5	PI 88788	scn soja
20	SIU13-0012	WGbf	LS03-4294 x LS05-3229	F5	PI 88788	

2016 SCN PRELIMINARY TEST IV

Strain	IL SCN screen			
	HG Type 0		HG Type 2.5.7	
	FI	rating	FI	rating
1 LD06-7620	17	R	62	NR
2 LD07-3395bf	1	HR	32	MR
3 LD00-2817P	1	HR	2	HR
4 AR15-358031	1	HR	2	HR
5 K14-1094	6	HR	70	NR
6 K14-1140	9	HR	63	NR
7 K14-1141	12	R	75	NR
8 K14-1153	10	R	54	NR
9 K14-1263	9	HR	74	NR
10 K14-1266	9	HR	50	LR
11 K14-1267	5	HR	56	LR
12 K14-1277	6	HR	63	NR
13 K14-1404	9	HR	77	NR
14 K14-1405	11	R	65	NR
15 LD13-3673	10	R	74	NR
16 LD13-7015	1	HR	25	MR
17 LD13-7022	18	R	62	NR
18 LD13-8466	16	R	36	MR
19 LD13-8769	2	HR	43	LR
20 SIU13-0012	23	R	52	LR

**rep data too variable to rate

2016 SCN PRELIMINARY TEST IV

Summary

Summary														
		Yield						Seed						
		All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
Strain		bu/a	rank	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
Locations		8*		6*		2		9	9	9	8	8	5	5
1	LD06-7620	69.4	4	69.6	2	68.6	10	9/26	2.2	37	2.3	14.8	34.5	19.4
2	LD07-3395bf	70.6	1	69.5	3	74.0	2	-1	2.1	35	2.5	15.7	33.4	20.5
3	LD00-2817P	66.6	12	65.9	12	70.0	8	2	2.4	43	2.3	13.8	33.2	20.9
4	AR15-358031	57.7	19	60.8	19	48.3	19	-6	2.5	39	2.6	15.2	36.0	20.2
5	K14-1094	69.0	6	67.4	7	73.7	4	1	1.7	39	1.9	14.0	32.2	20.8
6	K14-1140	68.5	8	68.0	6	70.0	8	-1	1.8	40	2.0	14.3	34.9	19.9
7	K14-1141	66.3	13	66.5	10	65.5	17	-4	1.6	41	2.1	15.4	33.9	20.4
8	K14-1153	69.1	5	67.3	8	74.3	1	0	2.0	39	2.2	14.6	34.1	20.2
9	K14-1263	64.1	17	63.0	16	67.6	13	3	2.2	44	2.0	15.2	35.0	19.7
10	K14-1266	64.4	15	63.3	15	67.7	12	1	2.4	41	2.2	15.8	35.9	20.0
11	K14-1267	64.4	15	62.4	17	70.5	7	5	2.7	46	2.5	15.2	35.4	19.9
12	K14-1277	67.4	10	65.6	13	72.7	5	1	2.1	41	2.4	14.8	35.0	19.4
13	K14-1404	67.7	9	66.5	10	71.3	6	1	1.4	38	2.0	15.0	34.3	20.3
14	K14-1405	68.6	7	68.7	4	68.3	11	1	1.8	40	2.0	16.6	35.2	20.2
15	LD13-3673	66.9	11	67.3	8	66.0	16	0	1.6	36	2.1	16.1	35.1	19.8
16	LD13-7015	65.0	14	64.1	14	67.6	13	0	1.6	39	2.3	14.9	33.4	20.4
17	LD13-7022	69.7	3	68.4	5	73.7	3	0	2.8	39	2.3	16.8	34.3	20.4
18	LD13-8466	63.1	18	61.9	18	66.6	15	2	2.7	39	1.9	15.4	35.2	20.6
19	LD13-8769	70.1	2	72.0	1	64.6	18	0	2.3	40	2.1	14.2	34.0	20.1
20	SIU13-0012	44.8	20	46.4	20	40.2	20	12	1.9	33	1.9	13.6	35.9	19.4
Mean		65.7		65.2		67.0		27.2	2.1	39.4	2.2	15.1	34.5	20.1
LSD(.05)		3.0		3.8		4.7		1.1	0.3	1.5				
C.V. %		6.6		7.2		4.9		6.2	21.5	6.0				
Replications		16		12		4		18	18	18				

* Clarkton, MO not included due to high CV.

2016 SCN PRELIMINARY TEST IV

		Yield (bu/a)								
		Carbon- dale IL	Neoga IL	Urbana IL	Manhattan KS	Clarkton MO	Novelty MO	Jackson TN	Onaga KS	Ottawa KS
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
Strain										
1	LD06-7620	46.0	70.3	78.8	72.3	25.7	86.7	59.8	68.1	69.1
2	LD07-3395bf	45.1	74.5	84.8	75.1	30.7	77.0	61.3	71.5	76.4
3	LD00-2817P	47.0	72.1	77.1	61.3	34.3	77.0	65.8	64.6	75.4
4	AR15-358031	37.9	69.3	71.3	51.5	16.0	83.6	48.7	35.7	60.9
5	K14-1094	44.3	71.9	80.4	66.0	17.2	79.7	63.1	70.8	76.5
6	K14-1140	47.6	70.0	73.2	65.4	27.8	86.1	62.1	64.0	76.1
7	K14-1141	46.0	66.3	80.0	62.7	19.5	82.1	58.2	60.6	70.4
8	K14-1153	40.4	69.8	84.8	71.7	27.1	86.7	59.2	70.9	77.6
9	K14-1263	39.9	67.1	77.8	57.4	9.7	75.6	60.3	64.7	70.5
10	K14-1266	42.0	73.2	76.3	54.2	31.5	68.9	68.6	64.7	70.8
11	K14-1267	40.4	68.7	73.9	64.0	18.3	71.7	61.6	59.3	81.7
12	K14-1277	41.5	67.7	75.2	60.3	13.4	86.9	63.0	71.8	73.6
13	K14-1404	46.2	70.5	80.6	66.9	18.2	76.8	57.3	69.0	73.7
14	K14-1405	49.7	67.2	81.7	65.2	14.7	81.2	61.2	69.2	67.4
15	LD13-3673	51.3	69.7	76.6	57.3	25.4	85.8	58.6	62.8	69.3
16	LD13-7015	49.9	69.2	74.0	70.2	13.6	69.7	51.5	61.3	73.9
17	LD13-7022	48.2	67.5	79.7	66.7	7.7	86.9	60.9	73.0	74.4
18	LD13-8466	45.4	62.9	77.3	61.1	17.6	65.6	62.3	61.2	72.1
19	LD13-8769	46.7	79.5	80.5	66.6	5.9	93.6	65.7	64.8	64.3
20	SIU13-0012	42.0	51.6	29.4	67.5	21.6	45.6	.	43.1	37.2
Average		44.9	68.9	75.7	64.2	19.8	78.3	60.5	63.6	70.6
LSD(.05)		10.0	7.6	10.5	6.3	18.8	14.4	9.8	7.2	6.8
C.V. %		11.2	5.4	6.8	4.7	37.4	8.8	7.7	5.4	4.6
Replications		2	2	2	2	2	2	2	2	2
Row width (in.)		30	30	30	30	30	30	30	30	30

2016 SCN PRELIMINARY TEST IV

		Yield (rank)								
		Carbon- dale IL	Neoga IL	Urbana IL	Manhattan KS	Clarkton MO	Novelty MO	Jackson TN	Onaga KS	Ottawa KS
	SCN HG Type	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
	Strain									
1	LD06-7620	9	7	9	2	6	5	13	8	16
2	LD07-3395bf	12	2	1	1	3	12	9	3	4
3	LD00-2817P	6	4	12	14	1	13	2	12	6
4	AR15-358031	20	11	19	20	14	8	19	20	19
5	K14-1094	13	5	6	9	13	11	4	5	3
6	K14-1140	5	8	18	10	4	6	7	13	5
7	K14-1141	10	18	7	13	9	9	16	17	14
8	K14-1153	17	9	1	3	5	4	14	4	2
9	K14-1263	19	17	10	17	18	15	12	10	13
10	K14-1266	14	3	14	19	2	18	1	10	12
11	K14-1267	18	13	17	12	10	16	8	18	1
12	K14-1277	16	14	15	16	17	3	5	2	10
13	K14-1404	8	6	4	6	11	14	17	7	9
14	K14-1405	3	16	3	11	15	10	10	6	17
15	LD13-3673	1	10	13	18	7	7	15	14	15
16	LD13-7015	2	12	16	4	16	17	18	15	8
17	LD13-7022	4	15	8	7	19	2	11	1	7
18	LD13-8466	11	19	11	15	12	19	6	16	11
19	LD13-8769	7	1	5	8	20	1	3	9	18
20	SIU13-0012	15	20	20	5	8	20	.	19	20

2016 SCN PRELIMINARY TEST IV

		Maturity								
		Carbon- dale IL	Neoga IL	Urbana IL	Manhattan KS	Clarkton MO	Novelty MO	Jackson TN	Onaga KS	Ottawa KS
SCN HG Type		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
Strain										
1	LD06-7620	10/05	9/29	9/30	10/2	9/11	9/29	9/19	9/26	9/30
2	LD07-3395bf	0	-2	-6	-3	5	-3	-5	-2	-2
3	LD00-2817P	1	3	1	-1	10	-1	-1	2	2
4	AR15-358031	-2	-9	-12	-5	-3	-3	-7	-12	-9
5	K14-1094	-1	0	2	1	2	-1	1	3	3
6	K14-1140	-1	-3	-5	-1	5	-2	-3	-2	-1
7	K14-1141	-3	-7	-5	-4	-2	-2	-3	-4	-5
8	K14-1153	0	-2	-2	1	5	-3	1	1	-1
9	K14-1263	2	3	2	3	5	2	3	6	3
10	K14-1266	0	-1	1	-2	7	-2	1	1	0
11	K14-1267	4	4	7	4	8	1	4	8	5
12	K14-1277	-2	-1	0	2	1	-1	-1	3	1
13	K14-1404	2	0	-1	1	6	-3	1	1	0
14	K14-1405	-1	0	1	1	3	-3	1	1	1
15	LD13-3673	1	-1	-1	-3	4	-1	1	0	-3
16	LD13-7015	0	-1	-4	1	-1	-2	-1	4	-1
17	LD13-7022	3	-1	-3	-2	0	-1	-1	1	-1
18	LD13-8466	4	2	2	2	7	-3	1	6	1
19	LD13-8769	1	-2	-2	-1	-2	0	-1	1	-1
20	SIU13-0012	9	15	12	13	18	8	.	15	8
Planted		6/10	5/25	5/21	6/2	5/13	5/24	5/19	5/10	6/6

2016 SCN PRELIMINARY TEST IV

Lodging (score)

		Carbon-	Neoga	Urbana	Manhattan	Clarkton	Novelty	Jackson	Onaga	Ottawa
		dale	IL	IL	KS	MO	MO	TN	KS	KS
		IL	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
SCN HG Type		I								
Strain										
1	LD06-7620	3.0	2.5	2.5	3.0	1.0	2.8	1.5	2.0	1.5
2	LD07-3395bf	3.0	2.8	3.3	2.0	1.0	3.0	2.5	1.0	1.5
3	LD00-2817P	4.0	2.5	2.8	3.0	1.0	2.5	2.0	2.0	2.0
4	AR15-358031	3.0	3.3	3.0	4.0	1.0	2.8	2.5	1.0	3.0
5	K14-1094	3.0	1.5	2.0	2.0	1.0	2.3	1.5	1.0	1.5
6	K14-1140	2.0	1.0	2.0	2.0	1.0	2.8	1.5	1.5	1.0
7	K14-1141	2.0	1.3	1.8	2.0	1.0	2.3	2.0	2.0	1.0
8	K14-1153	4.0	1.5	2.5	2.5	1.0	2.8	2.0	1.5	1.0
9	K14-1263	3.0	2.3	2.3	3.0	1.0	2.8	2.0	2.0	2.0
10	K14-1266	5.0	2.3	3.0	3.0	1.0	2.8	2.5	1.5	1.5
11	K14-1267	5.0	2.5	2.8	3.0	1.0	3.0	3.0	2.5	2.5
12	K14-1277	3.0	2.0	2.5	2.5	1.0	2.8	2.0	2.0	2.0
13	K14-1404	2.0	1.3	1.8	1.5	1.0	2.0	2.0	1.0	1.0
14	K14-1405	3.0	1.5	2.5	2.0	1.0	2.5	1.5	1.0	1.0
15	LD13-3673	2.0	1.0	2.3	2.0	1.0	2.5	1.0	1.0	1.0
16	LD13-7015	2.0	1.8	2.3	1.5	1.0	2.5	1.0	1.0	1.0
17	LD13-7022	4.0	3.0	2.8	4.0	1.0	3.0	2.0	3.0	2.0
18	LD13-8466	4.0	3.5	3.5	3.0	1.0	3.0	3.0	2.0	2.0
19	LD13-8769	4.0	1.8	2.8	3.0	1.0	2.8	2.5	2.0	2.0
20	SIU13-0012	3.0	1.5	2.8	2.0	1.0	3.0	.	1.0	1.0

2016 SCN PRELIMINARY TEST IV

Height (inches)									
SCN HG Type	Carbon- dale IL I	Neoga IL 2.5.7	Urbana IL 2.5.7	Manhattan KS I	Clarkton MO 2.5.7	Novelty MO 2.5.7	Jackson TN 1.2.5.7	Onaga KS NI	Ottawa KS NI
Strain									
1 LD06-7620	34	36	43	45	26	39	34	39	35
2 LD07-3395bf	32	35	40	41	25	38	32	37	35
3 LD00-2817P	41	43	48	52	33	44	41	46	44
4 AR15-358031	34	41	46	45	27	44	33	38	42
5 K14-1094	37	39	43	43	26	44	36	44	40
6 K14-1140	37	38	45	46	29	44	35	42	41
7 K14-1141	38	39	46	47	31	46	36	43	42
8 K14-1153	35	37	46	45	29	45	36	41	40
9 K14-1263	38	44	54	49	27	48	44	50	46
10 K14-1266	40	39	48	48	29	41	40	41	41
11 K14-1267	43	47	56	53	30	52	45	50	49
12 K14-1277	37	41	45	49	26	45	41	45	40
13 K14-1404	36	38	44	46	25	41	38	40	40
14 K14-1405	38	39	47	47	26	44	36	40	39
15 LD13-3673	34	36	40	41	26	42	31	37	35
16 LD13-7015	37	39	44	45	25	44	35	44	41
17 LD13-7022	38	38	47	46	22	42	39	44	39
18 LD13-8466	35	38	45	43	28	45	36	42	40
19 LD13-8769	40	41	48	48	23	43	39	40	40
20 SIU13-0012	33	34	37	38	18	42	.	34	28

2016 SCN PRELIMINARY TEST IV

Seed Quality (score)									
		Carbon-	Neoga	Urbana	Manhattan	Clarkton	Novelty	Jackson	Onaga
		dale	IL	IL	KS	MO	MO	TN	KS
		IL	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI
SCN HG Type		I							NI
Strain									
1	LD06-7620		2.0	2.0	2.0	1.5	1.5	3.0	3.0
2	LD07-3395bf		2.0	2.0	3.0	2.5	1.5	3.0	3.0
3	LD00-2817P		2.0	2.0	3.0	2.5	1.5	2.0	3.0
4	AR15-358031		2.0	2.0	3.0	2.5	2.0	3.5	3.0
5	K14-1094		2.0	2.0	2.0	1.0	1.5	2.0	3.0
6	K14-1140		2.0	2.0	2.0	1.5	1.5	2.0	3.0
7	K14-1141		2.0	2.0	2.0	2.0	1.5	2.5	3.0
8	K14-1153		2.0	2.0	3.0	1.5	1.5	2.5	3.0
9	K14-1263		2.0	2.0	2.0	1.5	1.5	2.0	3.0
10	K14-1266		2.0	2.0	3.0	1.5	1.8	2.0	3.0
11	K14-1267		2.0	2.0	3.0	2.0	1.5	2.5	4.0
12	K14-1277		2.0	2.0	3.0	1.5	2.3	2.5	3.0
13	K14-1404		2.0	2.0	2.0	1.5	1.5	2.0	3.0
14	K14-1405		2.0	2.0	2.0	1.5	1.5	2.0	3.0
15	LD13-3673		1.0	1.0	3.0	2.0	1.5	2.0	3.0
16	LD13-7015		2.0	2.0	3.0	1.5	1.5	2.0	3.0
17	LD13-7022		2.0	2.0	3.0	2.0	1.5	2.5	3.0
18	LD13-8466		1.0	2.0	2.0	2.0	1.5	2.5	2.0
19	LD13-8769		1.0	2.0	3.0	2.0	1.5	2.0	3.0
20	SIU13-0012		2.0	2.0	2.0	1.5	1.5	.	2.0

2016 SCN PRELIMINARY TEST IV

Seed Weight (g/100)									
SCN HG Type	Carbon- dale IL I	Neoga IL 2.5.7	Urbana IL 2.5.7	Manhattan KS I	Clarkton MO 2.5.7	Novelty MO 2.5.7	Jackson TN 1.2.5.7	Onaga KS NI	Ottawa KS NI
Strain									
1 LD06-7620		15.3	15.7	16.2	12.0	14.9	13.5	14.8	15.6
2 LD07-3395bf		15.5	16.0	17.8	12.3	15.9	15.1	14.9	17.7
3 LD00-2817P		14.3	14.2	16.2	11.3	13.1	12.7	13.6	15.0
4 AR15-358031		15.9	16.4	17.9	10.9	15.6	15.1	13.5	16.2
5 K14-1094		12.6	14.0	16.3	10.2	14.7	14.0	14.6	15.7
6 K14-1140		15.8	16.9	14.8	10.8	15.2	13.7	13.2	14.3
7 K14-1141		16.0	15.0	17.4	11.4	16.9	14.9	14.1	17.6
8 K14-1153		14.6	16.2	16.4	11.2	15.0	13.7	13.2	16.6
9 K14-1263		17.6	19.4	15.8	10.7	15.8	12.8	13.5	15.8
10 K14-1266		16.0	16.5	17.3	14.2	16.3	15.5	14.0	16.8
11 K14-1267		15.5	16.2	17.1	11.9	15.0	14.7	14.3	16.8
12 K14-1277		14.8	15.2	15.8	11.2	15.9	15.4	14.4	15.9
13 K14-1404		17.7	17.7	15.7	11.4	14.6	13.9	13.2	15.6
14 K14-1405		18.3	19.3	17.8	12.8	15.2	15.8	16.1	17.1
15 LD13-3673		13.6	14.2	18.8	13.8	18.3	16.0	16.5	17.5
16 LD13-7015		17.7	18.0	16.4	10.5	14.5	12.6	12.9	16.3
17 LD13-7022		15.6	17.6	19.9	12.3	18.0	16.3	16.5	18.5
18 LD13-8466		14.9	16.0	18.2	13.0	13.9	15.6	15.4	16.2
19 LD13-8769		13.2	15.4	16.8	9.4	15.8	13.7	14.1	14.9
20 SIU13-0012		14.6	14.7	15.1	12.5	11.6	.	12.8	14.1

2016 SCN PRELIMINARY TEST IV

		Protein (%)								
		Carbon- dale IL I	Neoga IL 2.5.7	Urbana IL 2.5.7	Manhattan KS I	Clarkton MO 2.5.7	Novelty MO 2.5.7	Jackson TN 1.2.5.7	Onaga KS NI	Ottawa KS NI
	SCN HG Type									
	Strain									
1	LD06-7620		35.8	34.7		35.4	33.2	33.4		
2	LD07-3395bf		32.6	33.0		33.8	33.8	33.5		
3	LD00-2817P		32.2	33.4		34.7	31.7	34.0		
4	AR15-358031		36.3	35.4		35.3	35.4	37.4		
5	K14-1094		34.4	33.0		30.6	32.2	30.8		
6	K14-1140		34.5	33.9		35.5	34.6	36.1		
7	K14-1141		35.0	34.1		32.5	33.4	34.5		
8	K14-1153		33.5	33.8		34.6	33.5	35.1		
9	K14-1263		35.5	35.6		34.0	35.1	34.7		
10	K14-1266		35.6	36.8		37.1	35.3	34.7		
11	K14-1267		35.9	36.2		35.2	34.5	35.2		
12	K14-1277		34.9	34.6		34.6	35.2	35.5		
13	K14-1404		34.0	34.3		34.4	33.2	35.3		
14	K14-1405		36.5	35.4		35.2	34.1	34.9		
15	LD13-3673		36.9	34.1		34.0	35.9	34.6		
16	LD13-7015		32.7	33.2		33.3	33.5	34.4		
17	LD13-7022		35.6	34.3		32.2	34.9	34.4		
18	LD13-8466		35.1	34.0		36.1	35.7	35.3		
19	LD13-8769		34.7	34.4		32.4	33.9	34.5		
20	SIU13-0012		36.0	36.0		36.0	35.6	.		

2016 SCN PRELIMINARY TEST IV

Oil (%)									
SCN HG Type	Carbon- dale IL I	Neoga IL 2.5.7	Urbana IL 2.5.7	Manhattan KS I	Clarkton MO 2.5.7	Novelty MO 2.5.7	Jackson TN 1.2.5.7	Onaga KS NI	Ottawa KS NI
Strain									
1 LD06-7620		19.4	19.1		20.2	18.8	19.6		
2 LD07-3395bf		20.5	20.3		20.8	19.8	21.1		
3 LD00-2817P		21.7	19.8		21.2	20.4	21.3		
4 AR15-358031		20.5	20.6		20.3	19.6	20.1		
5 K14-1094		19.6	19.4		22.6	19.7	22.5		
6 K14-1140		19.8	19.5		20.6	19.4	20.0		
7 K14-1141		19.7	20.6		21.7	19.4	20.8		
8 K14-1153		21.5	19.1		20.7	19.4	20.4		
9 K14-1263		20.0	19.2		20.7	18.9	19.8		
10 K14-1266		20.2	18.7		20.6	20.1	20.2		
11 K14-1267		20.2	19.0		20.9	19.4	20.1		
12 K14-1277		19.1	19.0		20.2	18.6	20.0		
13 K14-1404		20.5	19.0		21.0	20.2	20.6		
14 K14-1405		20.2	19.3		21.3	19.3	20.8		
15 LD13-3673		19.3	19.5		21.0	18.9	20.2		
16 LD13-7015		20.4	20.0		21.1	20.2	20.2		
17 LD13-7022		19.8	19.7		22.3	19.1	21.4		
18 LD13-8466		19.8	20.7		21.1	20.1	21.3		
19 LD13-8769		19.9	20.3		21.1	19.4	19.9		
20 SIU13-0012		18.7	18.7		21.4	18.9	.		