2013
NORTHERN REGIONAL SOYBEAN CYST NEMATODE TESTS

Coordinated by:
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2013 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. Trasngenic (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 than 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, imperfect 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 0% 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 USDA-ARS National Center for Agricultural Utilization Research, Peoria, Illinois. 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 observations 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

Purdue SCN greenhouse test: Soil from each field location is brought to the laboratory and used to test each SCN soybean line for resistance to the SCN population found in that field. Seeds of each soybean line are germinated in sand. When seedlings are several inches tall, sand is washed from the roots. Each seedling is placed in a 1-inch cell of a seedling tray partially filled with a soil:sand (1:3) mixture, 1 ml of inoculum is pipetted over the roots and additional soil/sand mixture is added to the cell. Three replicates of each entry are set up in this fashion. Inoculum is prepared by extracting cysts from field soil. Eggs and juveniles are released by dissolving the cuticle with sodium hypochlorite and mechanical crushing. Inoculum is adjusted to a concentration of 2000-3000 eggs per ml. Plants are grown for a period of 8-10 weeks at a temperature of about 75^{o} F. When it is judged that development of second generation SCN females has taken place, roots are gently dipped in water to remove soil and sand. Entries are then rated as resistant (R), moderately resistant (MR), moderately susceptible (MS) or susceptible (S) based on the following scheme of a visual inspection of the roots. The entry is considered resistant if the total number of females on the root is judged to be less than 10, moderately resistant if number of females is 11-20, moderately susceptible if 21-50 and susceptible if higher than 50.

Illinois SCN greenhouse test: Seed of each entry is germinated in germination paper placed in an incubator at 27^{o} 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^{o} 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^{o} 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^{o} 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:

	HG Type							
Indicator line	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
S	Missouri (Anand)
SS	Missouri (Sleper)
SD	South Dakota
TN	Tennessee
U	Nebraska
UD	Delaware
V	Virginia
W	Wisconsin

2013 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
A1	Anoka x Mack
A13	Selection from AP9 Fe(S1) C7
A20	BSR101 x CN210
A29	1% linolenic plant selection developed by Iowa StateUniversity
A55-5629-4	Roanoke x Hawkeye
A72-507	Amsoy x Wayne
A76-103022	AP6
A77-211021	
A82-161034	A76-103002 x A77-211021
A86-204022	Hack x Zane
A87-395012	Fayette x Asgrow A3659
A92-526007	A20 x Asgrow A2234
A94-773014	Pioneer P9303 x A87-395012
A95-485020	(Pioneer P7273 x A13) x Jack
A95-684043	
A96-492041	Northrup King S24-92 x Northrup King S19-90
A96-591033	IA3003 x Pioneer P9273
A97-553017	Pioneer YB280 x (Pioneer YB280 x A29)
A97-973002	
A98-781041	Pioneer P9204 x Pioneer P9281
A00-711003	
A00-711022	
A00-711024	A95-485020 x IA2036
A00-882130	
A04-545045	Pioneer 93B86 x A00-711022
A05-212037	IA3023 x A00-711003
AR02-101001	Pioneer P9233 x A96-591033
AR03-161009	(PI 507354 x Marcus) x IA1008
AR03-361091	LS90-1920 x IA1008
AR05-150119	Garst Agripro 96003-A98-21349 x Loda
AR05-150139	Loda x SOY02-2
AR05-250101	
AR05-250103	
AR05-250118	Hei-Lung x Dwight
AR06-165095	Golden Harvest 24040 x GarstAgripro 97026-N99-42648

2013 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
AR06-264007	
AR06-365042	Golden Harvest H-2632 x Syngenta S18-N5
AR07-175036	A95-684043 x Soygenetics 95-34480
AR07-175064	Golden Harvest X33686 x Syngenta S18-N5
AR07-176119	
AR07-276077	
AR1	IA2039BC x IA2021
AR2	
Asgrow A1564	Hark x C1453
Asgrow A2234	[(Calland X Amsoy) x (Century(3) X Williams 82)]
Asgrow A2506	
Asgrow A2943	Asgrow A1564 x Asgrow A3127
Asgrow A3127	Williams x Essex
Asgrow A3659	Williams x Essex
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
AX56P64-1	Adams x Harosoy
AxN-1-55	Northrup King S19-90 x Asgrow A2506
CL0J173-6-8	Kottman x Dwight
D71-6264	
Dairyland 75006	
Dairyland 75159	
Dairyland 75226	
Dairyland 75260	
Dairyland 98822	
Dairyland 99540	Stine 2660 x DSR-275
Dairyland 99630	
Dairyland DSR 365	
Dairyland DSR-275	
DP3478	

2013 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
E05276-T	
GarstAgripro 96003-A98-21349	
GarstAgripro 97026-N99-42648	
GarstAgripro 97284-N00-47977	
GarstAgriPro 98180-A01-06131	
GD518	
Golden Harvest 24040	
Golden Harvest H-2285	
Golden Harvest H-2632	
Golden Harvest X-33686	
Golden Harvest X-33802	
IAR2001BSR	
IVR 1120	Provar x (AX56P64-1 x PI 191.110-1)
J74-122	
K03-2399	K99-14 x SS96-10704
K99-14	IA3010 x STS line from Dupont
L15	Wayne(6) x Clark 63
L46-2132	Lincoln(2) x Richland
L57-0034	L46-2132 x Adams
L60-347-1-60-3B	Harosoy x Higan
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)
L74-3897	Williams x Beeson
L77-906	Williams X PI209.332
L77-994	Williams x PI88.788
L85P-558	L73-4673 X Fayette
LD00-1938	Pana x Savoy
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

2013 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
LD02-5025	IA3014 x Dwight
LD02-5137	IA3014 x Loda
LD02-5320	IA2052 x Dwight
LD02-6538	A97-973002 x IA3010
LD03-10487	LN97-26569 x A98-781041
LD03-10504	LN97-26569 x A98-781041
LD03-6566	LN95-6446 x SS96-5637
LD03-7607	LN95-5817 x IA3010
LD03-7610	LN95-5817 x IA3010
LD04-11056	U96-2208 x Syngenta S38-T8
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
LD05-16638	Dwight(3) x (Dowling x Loda)
LD05-16657	Dwight(3) x (Dowling x Loda)
LD05-30578a	LD00-3309(2) x [LD00-4970(2) x (Dowling x Loda)]
LD05-3230	Syngenta S25-J5 x LD00-3296
LD05-7565	Syngenta S33-N1 x LD00-3248
LD05-8517	LD00-2817 x Syngenta S38-T8
LD06-7648	IA3023 x LD00-3309
LD07-3395	Syngenta WW115926 x LD00-2817
LD07-3679	SS98-7851 x LD00-3309
LDX01-2-20	Dwight x soja SCN BC3F1
LDX07-178a-1-7	LD05-16638 x (Dwight x (Ina x PI 200538))
LDX08-210a	LD04-8782(3) x [LD03-6566 x ((LD02-4485 x (Ina x PI 200538))] (F2 line)
LDX08-211a	LD04-8782(3) x [LD03-6566 x ((LD02-4485 x (Ina x PI 200538))] (F2 line)
LG04-5190	
LG89-1525	PI90566-1 x L74-3897
LG97-7012	LG89-1525 x A3322
LN95-15740	Jack x Hartwig
LN95-5454	Jack x IA3003
LN95-5724	Jack x IA3003
LN95-5817	Jack x C1842
LN95-6446	Jack x Iroquois

2013 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
LN97-15076	Macon x Stressland
LN97-24270	Jack x Macon
LN97-26569	Yale x Macon
LN97-26569	Yale x Macon
LS00-4221	LS92-3660 x Asgrow 4138
LS01-0971	LS92-4173 X Dekalb 339c
LS01-1804	LS93-0375 x IA3005
LS01-3615	LS93-0375 x Mustang
LS02-0425	LN93-11632 x IA1008
LS02-2213	LS93-0375 x SS94-4337
LS90-1920	
LS92-3660	Resnick x Asgrow A5474
LS92-4173	Flyer x Pyramid
LS93-0375	Asgrow A3935 x Pioneer P9402
LS98-0582	Northrup King S46-44 x Asgorw A4138
M00-114089	M90-184111 x MN0902CN
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
M01-110-1026	MN0302 x F1 M00-129
M01-308067	M90-184111 x MN0071
M01-314114	MN0902CN x M95-123116
M01-315029	A99-216031 x M95-123023
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
M87-227	A82-161034 X Dawson
M87-349	
M90-178161	M85-23 x A20
M90-184111	L85P-558 X M86-1973

2013 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
M92-1645	Faribault x Bell
M92-270029	M87-227 X M87-349
M92-674	Agassiz x Ozzie
M93-313135	Agassiz x M90-1437
M98-134022	Lambert x Hartwig
M98-240104	M90-178161 x M92-1645
M99-286047	IA1008 x Pioneer 9234
M99-286050	IA1008 x P9234
M99-326040	UM3 x MN1306SP
MD83-5008	
MD96-5722	
N70-1549	Dare x D65-6765
N77-940	N70-1549 x Centennial
N90-516	Hutcheson x N83-1014
ND03-5441	Barnes x MN0602CN
ND03-7566	Barnes x MN0602CN
ND04-11329	
Northrup King S1346	A55-5629-4 x PI 257.435
Northrup King S19-90	Pride B152 x Pella
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
Pioneer 9234	SCN resistant line from Peking
Pioneer 93B86	
Pioneer P1677	Corsoy(2) x Rampage
Pioneer P2981	S20 x Hark
Pioneer P7273	
Pioneer P9004	Maple Ridge x Lakota
Pioneer P9061	Wells x Pioneer P1677
Pioneer P9071	Pioneer P9061 x Pioneer P9181
Pioneer P9181	Beeson x Williams
Pioneer P9204	

2013 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
Pioneer P9233	
Pioneer P9234	
Pioneer P9273	Pioneer 2981 x Asgrow A3127
Pioneer P9281	Hark x (Corsoy x Calland)
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 form Georgia
Pride B152	Northrup King S1346(6) x Mack
R00-1194F	Asgrow A4715 x DP3478
S04-8882	S99-2281 x LG97-7012
S88-1318	Peking x Elf
S91-5371-17	Williams(2) x (Forrest x PI437.654)
S92-1069	Manokin x Hartwig
S99-2281	N90-516 x S92-1069
Soygenetics 95-34480	
SoyGenetics M30121	
Soygenetics M30504	
Soygenetics M30504	
SS02-11958	
SS02-12014	
SS02-7620	SS95-11009 x Manokin
SS94-4337	Jack x Pioneer P9341
SS95-11009	Hamilton x Delsoy 4500
SS96-10704	Northurp King S39-11 x Asgrow A4715
SS96-5637	S88-1318 x S91-5371-17
SS98-7851	
SSN02-12312	
Stine 2660	
Syngenta 02JR318004	S32-Z3 x CM4035N
Syngenta 03JR101916	

2013 IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
Syngenta 04KL108370	
Syngenta 04RM820808	
Syngenta 05JR200591	
Syngenta 30257-b02-07197	
Syngenta 98620-b1-51163	
Syngenta S18-N5	
Syngenta S25-J5	
Syngenta S32-Z3	
Syngenta S32-Z3	
Syngenta S33-N1	
Syngenta S38-T8	
Syngenta SJ833009	
U01-190311	NE1900 x A97-871009
U01-390489	IA1008 x NE3001
U02-242055	NE1900 x P93B82
U03-200238	NE3202 x P92B12
U03-200317	U99-009019 x P92B12
U03-300134	NE3202 x NE2802
U03-360120	
U03-400435	P92B12 x U97-207904
U97-207904	M90-144 x U92-3314
U98-311442	A94-773014 x Bell
U99-009019	MSBP6S4 (Intermated population)
UM3	Natto x M87-926
435.TCS	line from Schillinger Seed Co.

2013 NORTHERN REGIONAL SCN TEST LOCATIONS

				Uniform Tests					Preliminary Tests				
	Location	Cooperator	SCN*	0	I	II	III	IV	0	I	II	III	IV
IA	Mason City	S. Cianzio	I		X					X			
IA	Newell	S. Cianzio	I		X					X			
IA	Ames	S. Cianzio	I			X					X		
IA	Urbana	S. Cianzio	I			X					X		
IA	Muscatine	S. Cianzio	I				X					X	
IA	Glenwood	S. Cianzio	I				X					X	
IL	DeKalb	B. Diers	I		X					X			
IL	Pontiac	B. Diers	I			X					X		
IL	Arthur	B. Diers	I				X					X	
IL	Brownstown	B. Diers	I					X					X
IL	Urbana	B. Diers	NI		X	X	X	X		X	X	X	X
IL	Carbondale	S. Kantartzi	I					X					X
IN	Butlerville	W. Crochet	I					X					
IN	West Lafayette	W. Crochet	I			X	X				X		
KS	Manhattan	W. Schapaugh	I				X	X				X	X
KS	Ottawa	W. Schapaugh	NI				X	X				X	X
MI	Decatur	D. Wang	I			X					X		
MN	Danvers	J. Orf	I	X									
MN	Rosemount	J. Orf	NI	X					X				
MN	Stewart	J. Orf	I	X	X	X			X	X			
MN	Lamberton	J. Orf	I		X	X				X			
MN	Waseca	J. Orf	I		X	X			X	X			
MO	Columbia	A. Scaboo	NI				X	X				X	X
MO	Clarkton	G. Shannon	I				X	X					X
MO	Portageville	G. Shannon	NI				X	X					
ND	Fairmont	T. Helms	I	**					**				
ND	Ellendale	T. Helms	NI	**					**				
NE	Herman	G. Graef	I			X	X				X	X	
NE	Peru	G. Graef	I			X	X				X	X	

2013 NORTHERN REGIONAL SCN TEST LOCATIONS

	Location	Cooperator	SCN*	Uniform Tests 0	I	II	III	IV	PRELIMINARYinary Tests 0	I	II	III	IV
OH	Hoytville	L. McHale	NI			X	X						
OH	Plain City	L. McHale	NI				X						
ON	Ridgetown	D. Fischer	I		**								
ON	Ottawa	E. Cober	NI	X									
ON	St. Pauls	I. Rajcan	NI	X									
ON	Woodstock	I. Rajcan	NI	X									
ON	Harrow	T. Welacky	I		X	X							
ON	Chatham	T. Welacky	I		X	X							
SD	Beresford1	G. Jiang	I			**					**		
SD	Beresford2	G. Jiang	NI			**					**		
TN	Jackson	P. Arelli	NI					X					X
		Total Tests		8	10	16	14	10	5	7	10	9	8

Special observation plots				U 0	U I	U II	U III	U IV	P0	PI	P II	P III	P IV
MN	Iron chlorosis	J. H. Orf	IDC	X	X	X							
IA	Iron chlorosis	C. Cianzio	IDC		X	X	X						
IL	SDS field screening	C. Schmidt	SDS		**	**	X	X					
IL	SCN Greenhouse	T. Niblack	SCN	X	X	X	X	X	X	X	X	X	X

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

2013 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	2.5.7	2880	7	**28**	0	0	**30**	2	**41**	0	**13**
IA	Newell	2.5.7	320	4	**18**	0	0	**31**	1	**42**	**56**	7
IA	Ames	2.5.7	1360	0	**10**	0	0	**12**	0	**13**	**13**	6
IA	Urbana	2.5.7	1200	0	**24**	0	0	**31**	0	**35**	**20**	0
IA	Muscatine	2.5.7	1200	0	**13**	0	0	**14**	0	**18**	0	1
IA	Glenwood	2.5.7	360	0	**25**	0	0	**17**	0	**19**	**20**	2
IL	DeKalb	2.5.7	120	2	**20**	0	0	**15**	1	**21**	7	9
IL	Pontiac	2.5.7	520	2	**31**	0	0	**37**	0	**45**	**25**	4
IL	Arthur	2.5.7	200	2	**37**	1	0	**30**	0	**41**	**34**	3
IL	Brownstown	2.5.7	840	0	**25**	0	0	**15**	0	**32**	0	1
IL	Urbana	NI	0									
IL	Carbondale	I										
IN	Butlerville	I										
IN	West Lafayette	2.5.7	320	7	**22**	0	0	**34**	1	**47**	**11**	**26**
KS	Manhattan	2.5.7	200	0	**24**	0	0	**25**	0	**31**	0	0
KS	Ottawa	NI	0									
MI	Decatur	5.7	280	0	7	0	0	**11**	0	**11**	0	1
MN	Danvers	1.2.3.5.6.7	160	**11**	**12**	**11**	0	**44**	**13**	**53**	5	**52**
MN	Rosemount	2.5.7	120	1	**11**	0	0	**28**	0	**31**	**10**	**13**
MN	Stewart	NI	0									
MN	Lamberton	2.5.7	200	2	**25**	0	0	**35**	0	**54**	0	**12**
MN	Waseca	2.5.7	2480	1	**11**	0	0	**17**	0	**48**	**24**	7
M	Columbia	NI	0									
M	Clarkton	1.2.5.7	200	**11**	**35**	3	0	**28**	4	**23**	1	**51**
M	Portageville	NI										
ND	Ellendale	NI	0									
ND	Fairmont	2.5.7	2480	1	**11**	0	0	**11**	0	**38**	4	7
NE	Herman	2.5.7	320	0	**15**	0	0	**17**	0	**20**	**23**	3
NE	Peru	I	*881*	Data provided by cooperator.								
OH	Hoytville	NI										
OH	Plain City	NI										
ON	Ridgetown	I	440	Testing incomplete.								
ON	Ottawa	NI										
ON	St. Pauls	NI										
ON	Woodstock	NI										
ON	Chatham	2.7	1360	0	**11**	0	0	8	0	**14**	3	0
ON	Harrow	2.5.7	*1160*	Data provided by cooperator.								
SD	Beresford1	2.5.7	5440	0	**30**	0	0	**20**	0	**45**	**41**	1
SD	Beresford2	NI										
TN	Jackson	NI										

I=infested(no soil sample submitted), **NI**=non-infested

2013 NORTHERN REGIONAL SCN TESTS SCN SCREENING

		HG 0			HG 2.5.7	
		Mean	FI		Mean	FI
	Lee	205			171	
	Essex	181			152	
HG1	PI548402	0	**0**		1	**0**
HG2	PI88788	1	**0**		87	**51**
HG3	PI90763	0	**0**		0	**0**
HG4	PI437654	0	**0**		0	**0**
HG5	PI209332	1	**0**		59	**34**
HG6	PI89772	0	**0**		0	**0**
HG7	PI548316	6	**3**		116	**68**
	PI438489B	16	**8**		1	**1**
	Pickett	0	**0**		2	**1**

**=rep data too variable to rate

			HG Type 0			HG Type 2.5.7		
Test	Entry	Strain	Mean	**FI**	rating	Mean	**FI**	rating
13SCN U0,I	**1**	**Sheyenne**	131	**64**	**NR**	130	**76**	**NR**
13SCN U0	**3**	**Surge**	144	**70**	**NR**	119	**70**	**NR**
13SCN U0	**4**	**MN0095**	161	**79**	**NR**	101	**59**	**LR**
13SCN U0	**5**	**MN0606CN**	4	**2**	**HR**	94	**55**	**LR**
13SCN U0	**6**	**M05-353163**	4	**2**	**HR**	108	**63**	**NR**
13SCN U0	**7**	**M05-363022**	4	**2**	**HR**	89	**52**	**LR**
13SCN U0	**8**	**M06-274247**	3	**1**	**HR**	89	**52**	**LR**
13SCN U0	**9**	**M06-288033**	1	**1**	**HR**	103	**60**	**NR**
13SCN U0	**10**	**M06-289237**	5	**2**	**HR**	105	**61**	**NR**
13SCN P0	**6**	**M07-254005**	125	**61**	**NR**	100	**58**	**LR**
13SCN P0	**7**	**M07-257006**	123	**60**	**NR**	99	**58**	**LR**
13SCN P0	**8**	**M07-285050**	194	**95**	**NR**	102	**60**	**NR**
13SCN P0	**9**	**M07-285053**	152	**74**	**NR**	113	**66**	**NR**
13SCN P0	**10**	**M07-291102**	7	**3**	**HR**	119	**70**	**NR**
13SCN P0	**11**	**M07-292111**	3	**2**	**HR**	98	**57**	**LR**
13SCN P0	**12**	**M07-296048**	5	**2**	**HR**	118	**69**	**NR**
13SCN P0	**13**	**M07-297083**	3	**2**	**HR**	95	**55**	**LR**
13SCN P0	**14**	**M07-298022**	4	**2**	**HR**	104	**61**	****
13SCN P0	**15**	**M08-151025**	5	**3**	**HR**	108	**63**	**NR**
13SCN P0	**16**	**ND10-2522**	5	**3**	**HR**	87	**51**	**LR**

2013 NORTHERN REGIONAL SCN TESTS SCN SCREENING

			HG Type 0			HG Type 2.5.7		
Test	Entry	Strain	Mean	FI	rating	Mean	FI	rating
13SCN P0	**17**	**ND10-2763**	7	**3**	**HR**	109	**64**	**NR**
13SCN P0	**18**	**ND10-2993**	17	**8**	**HR**	100	**58**	**LR**
13SCN P0	**19**	**ND10-3413**	5	**3**	**HR**	97	**57**	**LR**
13SCN P0	**20**	**ND10-3459**	4	**2**	**HR**	104	**61**	**NR**
13SCN P0	**21**	**ND10-3460**	8	**4**	**HR**	93	**54**	**LR**
13SCN P0	**22**	**ND10-3464**	4	**2**	**HR**	96	**56**	**LR**
13SCN P0	**23**	**ND10-3473**	4	**2**	**HR**	89	**52**	**LR**
13SCN P0	**24**	**ND10-3482**	2	**1**	**HR**	100	**58**	**LR**
13SCN P0	**25**	**ND10-3495**	3	**1**	**HR**	92	**54**	**LR**
13SCN P0	**26**	**ND10-3600**	2	**1**	**HR**	115	**67**	**NR**
13SCN P0	**27**	**ND10-4423**	4	**2**	**HR**	90	**53**	**LR**
13SCN U0, I	**1**	**MN1410**	149	**73**	**NR**	123	**72**	**NR**
13SCN U I,II	**2**	**IA1022 (SCN)**	8	**4**	**HR**	101	**59**	**LR**
13SCN U I	**4**	**AR09-191018**	1	**0**	**HR**	15	**9**	**HR**
13SCN U I	**5**	**LD10- 5903a**	4	**2**	**HR**	99	**58**	**LR**
13SCN U I	**6**	**M05-353086**	2	**1**	**HR**	115	**67**	**NR**
13SCN U I	**7**	**M05-353151**	4	**2**	**HR**	85	**50**	**LR**
13SCN U I	**8**	**M06-288155**	2	**1**	**HR**	94	**55**	**LR**
13SCN U I	**9**	**M06-288190**	2	**1**	**HR**	123	**72**	**NR**
13SCN U I	**10**	**M06-289273**	3	**2**	**HR**	94	**55**	**LR**
13SCN U I	**11**	**M07-209037**	1	**1**	**HR**	91	**53**	**LR**
13SCN P I	**4**	**AR12-127007**	12	**6**	**HR**	108	**63**	**NR**
13SCN P I	**5**	**AR12-127008**	3	**1**	**HR**	111	**65**	**NR**
13SCN P I	**6**	**AR12-127013**	1	**1**	**HR**	93	**55**	**LR**
13SCN P I	**7**	**AR12-127048**	25	**12**	**R**	121	**71**	**NR**
13SCN P I	**8**	**AR12-127053**	14	**7**	**HR**	104	**61**	**NR**
13SCN P I	**9**	**AR12-127054**	9	**4**	**HR**	103	**60**	**NR**
13SCN P I	**10**	**AR12-127061**	11	**5**	**HR**	111	**65**	**NR**
13SCN P I	**11**	**AR12-127066**	6	**3**	**HR**	118	**69**	**NR**
13SCN P I	**12**	**AR12-127075**	10	**5**	**HR**	86	**50**	**LR**
13SCN P I	**13**	**AR12-127076**	21	**10**	**R**	95	**55**	**LR**
13SCN P I	**14**	**AR12-127080**	11	**5**	**HR**	91	**53**	**LR**
13SCN P I	**15**	**AR12-127091**	11	**5**	**HR**	82	**48**	**LR**
13SCN P I	**16**	**AR12-127092**	16	**8**	**HR**	96	**56**	**LR**

2013 NORTHERN REGIONAL SCN TESTS SCN SCREENING

			HG Type 0			HG Type 2.5.7		
Test	Entry	Strain	Mean	FI	rating	Mean	FI	rating
13SCN P I	**17**	**AR12-127102**	5	**2**	**HR**	94	**55**	**LR**
13SCN P I	**18**	**AR12-127109**	2	**1**	**HR**	83	**49**	**LR**
13SCN P I	**19**	**LD10-682**	190	**93**	**NR**	119	**70**	**NR**
13SCN P I	**20**	**LD10-5895a**	8	**4**	**HR**	93	**55**	**LR**
13SCN P I	**21**	**LD11-05223a**	5	**3**	**HR**	113	**66**	**NR**
13SCN P I	**22**	**LD11-05254a**	10	**5**	**HR**	92	**54**	**LR**
13SCN P I	**23**	**LD11-05262a**	7	**4**	**HR**	97	**57**	**LR**
13SCN P I	**24**	**M07-294030**	51	**25**	******	136	**80**	**NR**
13SCN P I	**25**	**M07-297004**	6	**3**	**HR**	94	**55**	**LR**
13SCN P I	**26**	**M07-297007**	6	**3**	**HR**	94	**55**	**LR**
13SCN P I	**27**	**M07-297052**	5	**3**	**HR**	112	**65**	**NR**
13SCN P I	**28**	**M08-151006**	12	**6**	**HR**	85	**50**	**LR**
13SCN P I	**29**	**M08-151080**	7	**3**	**HR**	76	**44**	**LR**
13SCN P I	**30**	**M08-151086**	6	**3**	**HR**	107	**63**	**NR**
13SCN U II	**1**	**IA2102**	9	**4**	**HR**	107	**63**	**NR**
13SCN U II	**4**	**LD02- 4485**	6	**3**	**HR**	92	**54**	**LR**
13SCN U II	**5**	**AR10-105002**	3	**2**	**HR**	85	**50**	**LR**
13SCN U II	**6**	**AR10-205011**	10	**5**	**HR**	101	**59**	**LR**
13SCN U II	**7**	**AR11-113050**	3	**1**	**HR**	98	**57**	**LR**
13SCN U II	**8**	**LD08-12435a**	55	**27**	******	86	**50**	**LR**
13SCN U II	**9**	**LD08-12441a**	8	**4**	**HR**	74	**43**	**LR**
13SCN U II	**10**	**LD09-13026a**	8	**4**	**HR**	85	**50**	**LR**
13SCN U II	**11**	**LD09-15195a**	7	**4**	**HR**	103	**60**	**NR**
13SCN U II	**12**	**LD09-30220**	4	**2**	**HR**	50	**29**	**MR**
13SCN U II	**13**	**U09-310141**	4	**2**	**HR**	108	**63**	**NR**
13SCN P II	**5**	**AR12-127010**	3	**2**	**HR**	104	**61**	**NR**
13SCN P II	**6**	**AR12-127043**	18	**9**	**HR**	108	**63**	**NR**
13SCN P II	**7**	**AR12-127084**	8	**4**	**HR**	96	**56**	**LR**
13SCN P II	**8**	**AR12-227007**	9	**4**	**HR**	109	**64**	**NR**
13SCN P II	**9**	**AR12-227011**	21	**10**	**R**	126	**73**	**NR**
13SCN P II	**10**	**AR12-227024**	5	**3**	**HR**	84	**49**	**LR**
13SCN P II	**11**	**AR12-227035**	12	**6**	**HR**	122	**71**	**NR**
13SCN P II	**12**	**AR12-227037**	7	**4**	**HR**	107	**63**	**NR**
13SCN P II	**13**	**AR12-227055**	6	**3**	**HR**	123	**72**	**NR**

2013 NORTHERN REGIONAL SCN TESTS SCN SCREENING

			HG Type 0			HG Type 2.5.7		
Test	Entry	Strain	Mean	FI	rating	Mean	FI	rating
13SCN P II	**14**	**AR12-227065**	12	**6**	**HR**	121	**71**	**NR**
13SCN P II	**15**	**AR12-227066**	7	**3**	**HR**	114	**67**	**NR**
13SCN P II	**16**	**AR12-327003**	12	**6**	**HR**	103	**60**	**NR**
13SCN P II	**17**	**AR12-327048**	16	**8**	**HR**	117	**68**	**NR**
13SCN P II	**18**	**E05181-T**	68	**33**	****	114	**67**	**NR**
13SCN P II	**19**	**E09222LL**	122	**59**	**LR**	100	**58**	**LR**
13SCN P II	**20**	**E11095**	1	**1**	**HR**	11	**6**	**HR**
13SCN P II	**21**	**E11128T**	9	**4**	**HR**	109	**64**	**NR**
13SCN P II	**22**	**LD10-382**	140	**69**	**NR**	101	**59**	**LR**
13SCN P II	**23**	**LD10-1249**	157	**77**	**NR**	107	**63**	**NR**
13SCN P II	**24**	**LD10-2715**	3	**2**	**HR**	88	**51**	**LR**
13SCN P II	**25**	**LD10-5652a**	11	**5**	**HR**	93	**54**	**LR**
13SCN P II	**26**	**LD10-5685a**	5	**2**	**HR**	82	**48**	**LR**
13SCN P II	**27**	**LD10-5880a**	3	**1**	**HR**	86	**50**	**LR**
13SCN P II	**28**	**LD10-8674**	6	**3**	**HR**	98	**57**	**LR**
13SCN P II	**29**	**LD10-8707**	5	**2**	**HR**	105	**61**	**NR**
13SCN P II	**30**	**LD10-10198**	6	**3**	**HR**	108	**63**	**NR**
13SCN U III	**1**	**IA3023**	116	**57**	**LR**	87	**51**	**LR**
13SCN U III	**2**	**IA3024**	146	**71**	**NR**	94	**55**	**LR**
13SCN U III	**3**	**IA3048**	3	**1**	**HR**	93	**54**	**LR**
13SCN U III	**5**	**AR11-213003**	12	**6**	**HR**	83	**49**	**LR**
13SCN U III	**6**	**K10-8556**	7	**4**	**HR**	94	**55**	**LR**
13SCN U III	**7**	**LD08-923**	8	**4**	**HR**	110	**65**	**NR**
13SCN U III	**8**	**LD08-1592**	7	**3**	**HR**	98	**57**	**LR**
13SCN U III	**9**	**LD08-8622**	7	**4**	**HR**	118	**69**	**NR**
13SCN U III	**10**	**LD09-3645**	9	**5**	**HR**	89	**52**	**LR**
13SCN U III	**11**	**LD09-10242**	1	**0**	**HR**	56	**33**	**MR**
13SCN U III	**12**	**LD09-10911**	3	**1**	**HR**	100	**58**	**LR**
13SCN U III	**13**	**LD09-11732**	22	**11**	**R**	90	**53**	**LR**
13SCN U III	**14**	**LD09-11822**	18	**9**	**HR**	110	**64**	**NR**
13SCN U III	**15**	**LD09-30224**	2	**1**	**HR**	78	**45**	**LR**
13SCN P III	**5**	**AR12-227070**	13	**6**	**HR**	129	**75**	**NR**
13SCN P III	**6**	**AR12-227104**	8	**4**	**HR**	101	**59**	**LR**
13SCN P III	**7**	**AR12-327021**	3	**1**	**HR**	87	**51**	****

2013 NORTHERN REGIONAL SCN TESTS SCN SCREENING

			HG Type 0			HG Type 2.5.7		
Test	Entry	Strain	Mean	FI	rating	Mean	FI	rating
13SCN P III	**8**	**AR12-327037**	11	**5**	**HR**	88	**52**	**LR**
13SCN P III	**9**	**AR12-327045**	12	**6**	**HR**	90	**53**	**LR**
13SCN P III	**10**	**AR12-327064**	7	**3**	**HR**	88	**52**	**LR**
13SCN P III	**11**	**AR12-327067**	13	**7**	**HR**	97	**57**	**LR**
13SCN P III	**12**	**AR12-327071**	1	**0**	**HR**	53	**31**	****
13SCN P III	**13**	**AR12-327073**	7	**3**	**HR**	65	**38**	****
13SCN P III	**14**	**AR12-327078**	8	**4**	**HR**	117	**69**	**NR**
13SCN P III	**15**	**LD10- 3337**	103	**50**	**LR**	64	**37**	****
13SCN P III	**16**	**LD10- 3720**	11	**5**	**HR**	98	**57**	**LR**
13SCN P III	**17**	**LD10- 5916a**	2	**1**	**HR**	98	**57**	**LR**
13SCN P III	**18**	**LD10- 6853**	4	**2**	**HR**	75	**44**	**LR**
13SCN P III	**19**	**LD10- 6923**	6	**3**	**HR**	118	**69**	**NR**
13SCN P III	**20**	**LD10- 6930**	3	**2**	**HR**	88	**51**	**LR**
13SCN P III	**21**	**LD10- 8238**	7	**3**	**HR**	120	**70**	**NR**
13SCN P III	**22**	**LD10- 9763**	9	**4**	**HR**	95	**56**	**NR**
13SCN P III	**23**	**LD10- 9785**	36	**17**	**R**	109	**64**	**NR**
13SCN P III	**24**	**LD10- 9816**	6	**3**	**HR**	105	**62**	**NR**
13SCN P III	**25**	**LD10- 9823**	30	**14**	**R**	84	**49**	**LR**
13SCN P III	**26**	**LD10-10219**	4	**2**	**HR**	83	**49**	**LR**
13SCN P III	**27**	**LD10-30014**	6	**3**	**HR**	109	**64**	**NR**
13SCN P III	**28**	**U11-627092**	17	**8**	**HR**	103	**60**	**NR**
13SCN U IV	**1**	**LD06-7620**	13	**6**	**HR**	89	**52**	**LR**
13SCN U IV	**2**	**IA4005**	129	**63**	**NR**	112	**65**	**NR**
13SCN U IV	**3**	**LD00- 2817P**	0	**0**	**HR**	7	**4**	**HR**
13SCN U IV	**4**	**LD07-3395bf**	6	**3**	**HR**	36	**21**	**R**
13SCN U IV	**5**	**LD09-12184**	9	**4**	**HR**	127	**74**	**NR**
13SCN U IV	**6**	**LS07-2935**	4	**2**	**HR**	84	**49**	**LR**
13SCN U IV	**7**	**LS07-3125**	8	**4**	**HR**	114	**66**	**NR**
13SCN U IV	**8**	**LS07-3131**	15	**7**	**HR**	100	**58**	**LR**
13SCN U IV	**9**	**LS08-5837**	12	**6**	**HR**	115	**67**	**NR**
13SCN U IV	**10**	**LS09-1527**	4	**2**	**HR**	94	**55**	**LR**
13SCN U IV	**11**	**LS09-1803**	22	**11**	**R**	91	**53**	**LR**
13SCN U IV	**12**	**LS09-2342**	23	**11**	**R**	107	**63**	**NR**
13SCN U IV	**13**	**LS09-2655**	22	**11**	**R**	132	**77**	**NR**

2013 NORTHERN REGIONAL SCN TESTS SCN SCREENING

			HG Type 0			HG Type 2.5.7		
Test	Entry	Strain	Mean	**FI**	rating	Mean	**FI**	rating
13SCN U IV	**14**	**LS09-2659**	21	**10**	**R**	127	**74**	**NR**
13SCN U IV	**15**	**LS09-2722**	9	**4**	**HR**	98	**57**	**LR**
13SCN P IV	**4**	**K11-1336**	10	**5**	**HR**	85	**50**	**LR**
13SCN P IV	**5**	**K11-1666**	6	**3**	**HR**	102	**59**	**LR**
13SCN P IV	**6**	**K11-1868**	13	**6**	**HR**	105	**61**	**NR**
13SCN P IV	**7**	**K11-2006**	19	**9**	**HR**	107	**63**	**NR**
13SCN P IV	**8**	**K11-2363**	12	**6**	**HR**	107	**63**	**NR**
13SCN P IV	**9**	**K11-2371**	4	**2**	**HR**	117	**68**	**NR**
13SCN P IV	**10**	**LD10- 3482**	3	**1**	**HR**	113	**66**	**NR**
13SCN P IV	**11**	**LD10- 4612**	7	**4**	**HR**	113	**66**	**NR**
13SCN P IV	**12**	**LD10- 8610**	1	**1**	**HR**	60	**35**	******
13SCN P IV	**13**	**LD10- 9409**	3	**2**	**HR**	99	**58**	**LR**
13SCN P IV	**14**	**LD10- 9434**	4	**2**	**HR**	108	**63**	******
13SCN P IV	**15**	**LD10- 9491**	6	**3**	**HR**	107	**63**	**NR**
13SCN P IV	**16**	**S10-11227**	75	**37**	******	57	**33**	**MR**

2013 SCN UNIFORM TEST 0

	Strain	Descriptive code	Parentage
1	Sheyenne	PGy	Pioneer 9071 x A96-492041
2	MN1410	WGbf	Unknown
3	Surge	PGibl	A86-204022 x Kato
4	MN0095	PGibl	M92-270029 x M93-313135
5	MN0606CN	WTy	MN0901 x MN0902CN
6	M05-353163	PTbr	MN0902CN x M99-286047
7	M05-363022	P+WGy	IA1008 x MN1011CN
8	M06-274247	WTy	MN0902CN x MN1011CN
9	M06-288033	PGbf	M00-365137 x M99-286050
10	M06-289237	WGy	M00-351195 x M00-365181

	Strain	Previous testing	Gen comp	SCN source	Traits
1	Sheyenne	5	F4	none	Rsp1-c
2	MN1410	8	F5	none	
3	Surge	9	F5	none	
4	MN0095	3	F5	none	Rps1
5	MN0606CN	8	F4	PI88788	
6	M05-353163	2	F5	PI88788	
7	M05-363022	2	F5	PI88788	
8	M06-274247	1	F5	PI88788	
9	M06-288033	1	F5	PI88788	
10	M06-289237	1	F5	PI88788	Protein

2013 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	64	NR	76	NR	3.1
2 MN1410	73	NR	72	NR	3.6
3 Surge	70	NR	70	NR	2.8
4 MN0095	79	NR	59	LR	2.6
5 MN0606CN	2	HR	55	LR	3.1
6 M05-353163	2	HR	63	NR	3.3
7 M05-363022	2	HR	52	LR	2.9
8 M06-274247	1	HR	52	LR	2.9
9 M06-288033	1	HR	60	NR	3.0
10 M06-289237	2	HR	61	NR	3.4

2013 SCN UNIFORM TEST 0

Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	2		4		6	6	5	6	6	6	6
1	Sheyenne	38.8	5	47.3	4	9/25	1.4	29	2.2	16.0	35.3	17.6
2	MN1410	35.8	9	52.7	1	6	2.1	30	1.6	17.6	35.7	18.0
3	Surge	36.0	8	47.9	3	1	1.6	27	1.7	19.4	36.1	18.6
4	MN0095	32.5	10	38.9	10	-9	1.6	25	1.8	13.7	35.3	18.3
5	MN0606CN	42.0	2	45.6	6	1	2.0	29	2.0	15.5	35.6	18.0
6	M05-353163	43.3	1	45.0	7	-2	1.9	33	2.0	15.5	37.0	17.3
7	M05-363022	36.1	7	49.1	2	0	1.7	30	2.3	17.6	35.6	18.3
8	M06-274247	38.2	6	42.6	8	-1	1.9	29	2.0	14.4	36.8	17.5
9	M06-288033	41.4	3	46.6	5	1	2.0	26	1.8	15.5	35.2	18.0
10	M06-289237	41.4	3	41.9	9	0	1.8	30	1.8	14.8	37.1	17.2

2 Year Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	5		7		12	10	10	12	12	12	12
1	Sheyenne	40.7	7	46.3	2	9/16	1.3	29	1.9	16.1	34.9	18.1
2	MN1410	38.9	8	51.0	1	6	1.9	30	1.4	17.7	36.0	18.2
3	Surge	37.7	9	44.7	4	2	1.5	27	1.6	19.2	36.2	18.6
4	MN0095	35.9	10	33.7	10	-7	1.4	25	1.9	13.8	35.4	18.5
5	MN0606CN	42.7	2	42.4	7	3	2.0	29	1.6	15.7	35.6	18.2
6	M05-353163	42.6	3	43.6	5	-1	2.0	32	1.8	15.4	37.0	17.5
7	M05-363022	42.1	5	45.4	3	1	1.5	29	1.8	17.2	35.5	18.4
8	M06-274247	41.0	6	42.0	8	1	2.1	29	1.8	14.9	36.5	17.9
9	M06-288033	42.6	4	42.6	6	2	1.8	26	1.7	15.5	34.9	18.4
10	M06-289237	42.9	1	41.7	9	0	1.9	30	1.5	14.8	37.0	17.5

2013 SCN UNIFORM TEST 0

Yield (bu/a)

		Davners MN	Stewart MN	Rosemount MN	Ottawa ON	St. Pauls ON	Woodstock ON
	SCN HG Type	1.2.3.5.6.7	2.5.7	NI	NI	NI	NI
	Strain						
1	Sheyenne	52.2	25.3	22.3	76.2	46.7	43.9
2	MN1410	48.2	23.3	22.8	78.1	59.3	50.8
3	Surge	48.9	23.0	18.3	73.3	50.7	49.3
4	MN0095	43.8	21.1	14.5	66.6	40.3	34.3
5	MN0606CN	56.3	27.6	23.7	70.7	46.0	41.9
6	M05-353163	59.5	27.0	25.2	68.2	44.9	41.7
7	M05-363022	45.8	26.3	22.2	75.1	53.7	45.3
8	M06-274247	46.4	29.9	19.4	69.5	41.0	40.6
9	M06-288033	51.4	31.4	25.2	71.5	50.1	39.5
10	M06-289237	53.6	29.1	19.8	64.2	39.4	44.2
	Average	50.6	26.4	21.3	71.4	47.2	43.1
	LSD(.05)	5.0	7.2	5.9	5.0	6.8	5.7
	C.V. %	5.9	16.0	17.1	4.9	8.3	7.7
	Replications	3	3	3	3	3	3
	Row width (in.)	30	30	30	18	14	14

Yield (rank)

		Davners MN	Stewart MN	Rosemount MN	Ottawa ON	St. Pauls ON	Woodstock ON
	SCN HG Type	1.2.3.5.6.7	2.5.7	NI	NI	NI	NI
	Strain						
1	Sheyenne	4	7	5	2	5	5
2	MN1410	7	8	4	1	1	1
3	Surge	6	10	9	4	3	2
4	MN0095	10	9	10	9	9	10
5	MN0606CN	2	4	3	6	6	6
6	M05-353163	1	5	1	8	7	7
7	M05-363022	9	6	6	3	2	3
8	M06-274247	8	2	8	7	8	8
9	M06-288033	5	1	2	5	4	9
10	M06-289237	3	3	7	10	10	4

2013 SCN UNIFORM TEST 0

Maturity

		Davners	Stewart	Rosemount	Ottawa	St. Pauls	Woodstock
		MN	MN	MN	ON	ON	ON
	SCN HG Type	1.2.3.5.6.7	2.5.7	NI	NI	NI	NI
	Strain						
1	Sheyenne	9/27	9/24	9/24	9/18	9/18	10/6
2	MN1410	2	4	5	7	7	8
3	Surge	1	1	1	3	1	-2
4	MN0095	-10	-6	-6	-12	-10	-9
5	MN0606CN	1	1	4	1	-1	0
6	M05-353163	1	-2	-1	0	-6	-6
7	M05-363022	0	0	0	0	0	0
8	M06-274247	1	1	1	0	-3	-6
9	M06-288033	3	3	4	1	-8	2
10	M06-289237	-5	0	0	2	3	0
	Planted	5/29	5/14	5/24	5/14	5/17	6/18

Lodging (score)

		Davners	Stewart	Rosemount	Ottawa	St. Pauls	Woodstock
		MN	MN	MN	ON	ON	ON
	SCN HG Type	1.2.3.5.6.7	2.5.7	NI	NI	NI	NI
	Strain						
1	Sheyenne	2.0	1.0	1.0	1.7	1.0	1.5
2	MN1410	4.0	1.3	1.3	2.7	1.5	1.8
3	Surge	3.0	1.0	1.0	2.3	1.0	1.0
4	MN0095	4.0	1.0	1.0	1.3	1.0	1.2
5	MN0606CN	4.0	1.0	1.0	2.7	1.2	1.8
6	M05-353163	4.0	1.0	1.0	2.7	1.2	1.7
7	M05-363022	4.0	1.0	1.7	1.3	1.0	1.2
8	M06-274247	3.0	1.3	1.0	2.7	1.3	1.8
9	M06-288033	4.0	1.0	1.0	2.0	1.0	2.7
10	M06-289237	2.0	1.0	1.0	2.7	1.2	2.8

2013 SCN UNIFORM TEST 0

Height (inches)

		Davners	Stewart	Rosemount	Ottawa	St. Pauls	Woodstock
		MN	MN	MN	ON	ON	ON
	SCN HG Type	1.2.3.5.6.7	2.5.7	NI	NI	NI	NI
	Strain						
1	Sheyenne		17	23	36	33	34
2	MN1410		18	21	38	35	37
3	Surge		20	20	36	30	31
4	MN0095		17	19	31	25	31
5	MN0606CN		20	26	38	28	31
6	M05-353163		25	25	42	33	39
7	M05-363022		29	20	35	31	33
8	M06-274247		23	20	36	31	35
9	M06-288033		22	19	31	27	29
10	M06-289237		27	22	39	29	33

Seed Quality (score)

		Davners	Stewart	Rosemount	Ottawa	St. Pauls	Woodstock
		MN	MN	MN	ON	ON	ON
	SCN HG Type	1.2.3.5.6.7	2.5.7	NI	NI	NI	NI
	Strain						
1	Sheyenne	3.0	3.0	1.0	2.0	2.0	2.0
2	MN1410	1.0	3.0	1.0	1.3	1.5	1.5
3	Surge	2.0	2.0	2.0	1.3	1.5	1.5
4	MN0095	1.0	3.0	2.0	1.3	1.5	2.0
5	MN0606CN	2.0	2.0	1.0	2.7	2.0	2.0
6	M05-353163	3.0	2.0	2.0	2.0	1.5	1.5
7	M05-363022	3.0	3.0	2.0	2.3	2.0	1.5
8	M06-274247	3.0	2.0	1.0	2.0	2.0	2.0
9	M06-288033	1.0	2.0	1.0	2.0	2.5	2.5
10	M06-289237	2.0	2.0	1.0	2.0	1.5	2.0

2013 SCN UNIFORM TEST 0

Seed Weight (g/100)

		Davners MN	Stewart MN	Rosemount MN	Ottawa ON	St. Pauls ON	Woodstock ON
	SCN HG Type	1.2.3.5.6.7	2.5.7	NI	NI	NI	NI
	Strain						
1	Sheyenne	18.2	14.4	15.7	16.1	15.4	16.2
2	MN1410	20.7	15.6	15.0	18.7	15.8	19.8
3	Surge	22.9	17.2	17.2	20.8	18.1	20.3
4	MN0095	15.4	11.9	14.0	14.0	12.3	14.7
5	MN0606CN	18.5	12.5	13.7	17.2	14.8	16.5
6	M05-353163	18.0	12.8	14.7	16.3	14.2	16.7
7	M05-363022	19.9	17.1	15.7	18.4	16.3	18.4
8	M06-274247	17.3	11.6	13.0	16.0	13.1	15.5
9	M06-288033	16.1	14.1	13.9	16.1	14.9	17.7
10	M06-289237	16.8	13.4	13.0	15.4	14.7	15.3

2013 SCN UNIFORM TEST 0

Protein (%)

		Davners	Stewart	Rosemount	Ottawa	St. Pauls	Woodstock
		MN	MN	MN	ON	ON	ON
	SCN HG Type	1.2.3.5.6.7	2.5.7	NI	NI	NI	NI
	Strain						
1	Sheyenne	34.5	35.3	34.9	34.7	36.3	36.4
2	MN1410	35.0	36.6	34.7	34.0	35.5	38.2
3	Surge	36.1	34.6	36.5	35.8	35.4	37.9
4	MN0095	34.0	34.0	34.4	35.3	35.3	38.6
5	MN0606CN	35.0	34.0	34.6	36.6	35.8	37.6
6	M05-353163	35.5	36.1	36.1	37.4	37.1	39.7
7	M05-363022	34.9	34.8	35.1	36.3	35.2	37.1
8	M06-274247	37.1	35.1	36.8	36.0	37.1	38.4
9	M06-288033	33.9	33.7	34.4	35.6	35.8	37.5
10	M06-289237	35.4	36.0	36.0	37.9	37.7	39.5

Oil (%)

		Davners	Stewart	Rosemount	Ottawa	St. Pauls	Woodstock
		MN	MN	MN	ON	ON	ON
	SCN HG Type	1.2.3.5.6.7	2.5.7	NI	NI	NI	NI
	Strain						
1	Sheyenne	18.0	17.7	17.8	16.6	18.3	17.3
2	MN1410	19.2	17.5	18.5	17.9	17.6	17.6
3	Surge	18.8	20.0	18.6	17.8	18.7	17.9
4	MN0095	19.4	19.3	19.1	16.7	17.9	17.2
5	MN0606CN	18.3	19.1	18.3	16.2	18.2	17.7
6	M05-353163	17.9	18.5	17.9	15.8	17.5	16.4
7	M05-363022	18.6	19.7	19.0	16.7	18.3	17.4
8	M06-274247	17.3	19.4	17.7	16.3	17.6	17.1
9	M06-288033	18.5	19.4	18.9	16.2	17.7	17.1
10	M06-289237	17.9	18.3	17.9	15.4	17.1	16.6

2013 SCN PRELIMINARY TEST 0

	Strain	Descriptive code	Parentage	Gen comp	SCN source	Traits
1	Sheyenne	PGy	Pioneer 9071 x A96-492041	F4	none	Rsp1-c
2	MN1410	WGbf	Unknown	F5	none	
3	Surge	PGibl	A86-204022 x Kato	F5	none	
4	MN0095	PGibl	M92-270029 x M93-313135	F5	none	Rps1
5	MN0606CN	WTy	MN0901 x MN0902CN	F4	PI88788	
6	M07-254005	WTy	UM3 x MN0606CN	F5	PI88788	
7	M07-257006	PTy	MN1701CN x M99-326040	F5	PI88788	
8	M07-285050	P+WGbf	M01-110-1026 x MN0606CN	F5	PI88788	
9	M07-285053	WGbf	M01-110-1026 x MN0606CN	F5	PI88788	
10	M07-291102	WTbr	MN0908CN x M01-308067	F5	PI88788	
11	M07-292111	WTgr	M01-315029 x MN1106CN	F5	PI88788	
12	M07-296048	PTY	M01-314114 x MN1011CN	F5	PI88788	
13	M07-297083	WT+Gbr+y	MN0902CN x LD02-5320	F5	PI88788	
14	M07-298022	PTy	M00-116161 x MN1806SP	F5	PI88788	Protein
15	M08-151025	WGy	M00-116161 x M99-286047	F5	PI88788	
16	ND10-2522	WGbf	ND03-7566 x ND03-5441	F4	PI88788	Rps6
17	ND10-2763	WGy	Sheyenne x ND03-5441	F4	PI88788	Rps6
18	ND10-2993	WGbf	ND04-11329 x ND03-7566	F4	PI88788	Rps1c
19	ND10-3413	WGbf	ND03-7566 x [ND03-5441 x LaMoure BC2]	F4	PI88788	Rps6
20	ND10-3459	WGbf	ND03-7566 x [ND03-5441 x LaMoure BC2]	F4	PI88788	Rps6
21	ND10-3460	WGbf	ND03-7566 x [ND03-5441 x LaMoure BC2]	F4	PI88788	Rps6
22	ND10-3464	WGbf	ND03-7566 x [ND03-5441 x LaMoure BC2]	F4	PI88788	Rps6
23	ND10-3473	WGbf	ND03-7566 x [ND03-5441 x LaMoure BC2]	F4	PI88788	Rps6
24	ND10-3482	WGbf	ND03-7566 x [ND03-5441 x LaMoure BC2]	F4	PI88788	Rps6
25	ND10-3495	WGbf	ND03-7566 x [ND03-5441 x LaMoure BC2]	F4	PI88788	Rps6
26	ND10-3600	WGbf	ND03-7566 x [ND03-5441 x LaMoure BC2]	F4	PI88788	Rps6
27	ND10-4423	PTbr	ND03-7566 x [ND03-5441 x LaMoure BC2]	F4	PI88788	Rps1c

2013 SCN PRELIMINARY TEST 0

	IL SCN screen				MN IDC
	HG Type 0		HG Type 2.5.7		Davners
Strain	FI	score	score	rating	score
1 Sheyenne	64	NR	76	NR	3.0
2 MN1410	73	NR	72	NR	3.6
3 Surge	70	NR	70	NR	3.1
4 MN0095	79	NR	59	LR	2.4
5 MN0606CN	2	HR	55	LR	3.5
6 M07-254005	61	NR	58	LR	2.6
7 M07-257006	60	NR	58	LR	3.0
8 M07-285050	95	NR	60	NR	3.3
9 M07-285053	74	NR	66	NR	3.5
10 M07-291102	3	HR	70	NR	3.3
11 M07-292111	2	HR	57	LR	2.6
12 M07-296048	2	HR	69	NR	3.1
13 M07-297083	2	HR	55	LR	4.0
14 M07-298022	2	HR	61	NR	3.5
15 M08-151025	3	HR	63	NR	3.1
16 ND10-2522	3	HR	51	LR	2.6
17 ND10-2763	3	HR	64	NR	3.3
18 ND10-2993	8	HR	58	LR	2.4
19 ND10-3413	3	HR	57	LR	2.9
20 ND10-3459	2	HR	61	NR	2.6
21 ND10-3460	4	HR	54	LR	2.4
22 ND10-3464	2	HR	56	LR	2.5
23 ND10-3473	2	HR	52	LR	2.4
24 ND10-3482	1	HR	58	LR	2.1
25 ND10-3495	1	HR	54	LR	2.1
26 ND10-3600	1	HR	67	NR	2.8
27 ND10-4423	2	HR	53	LR	2.5

2013 SCN PRELIMINARY TEST 0

Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Location	2		1		2	3	2	3	3	3	3
1	Sheyenne	30.7	17	24.2	17	9/22	1.3	22	2.0	14.4	34.6	19.0
2	MN1410	32.5	12	30.4	3	4	1.8	24	1.3	15.5	35.4	18.5
3	Surge	30.7	18	26.8	9	-2	1.2	22	2.0	17.4	35.8	19.0
4	MN0095	28.1	23	23.6	21	-9	2.6	19	1.3	12.2	34.8	19.2
5	MN0606CN	35.1	5	30.5	1	1	1.7	24	1.0	13.8	34.3	19.1
6	M07-254005	28.5	22	21.6	23	-6	1.5	22	1.3	12.4	33.9	19.7
7	M07-257006	29.9	20	23.8	19	-1	1.8	20	1.3	9.7	34.6	18.3
8	M07-285050	31.6	14	24.6	15	-1	1.7	22	1.3	15.1	34.3	19.5
9	M07-285053	29.3	21	24.0	18	-5	1.3	24	1.7	13.7	34.7	19.6
10	M07-291102	33.8	9	26.5	10	-3	1.8	21	1.3	13.1	34.4	19.2
11	M07-292111	30.2	19	28.3	4	-6	1.3	23	1.7	13.1	35.2	19.3
12	M07-296048	38.1	1	26.5	10	-3	1.5	24	1.0	13.7	34.4	18.7
13	M07-297083	34.9	6	30.5	1	2	1.7	24	1.3	12.8	35.3	18.6
14	M07-298022	35.9	4	24.3	16	-3	1.4	23	1.7	15.2	36.0	18.7
15	M08-151025	34.7	7	27.0	7	1	1.3	22	2.3	14.8	34.7	19.0
16	ND10-2522	32.2	13	20.2	27	-7	1.3	20	2.3	13.1	34.6	19.5
17	ND10-2763	27.2	27	20.5	26	-7	1.4	20	2.3	14.6	34.1	19.4
18	ND10-2993	28.0	25	20.6	25	-8	1.4	18	2.3	12.3	34.0	19.5
19	ND10-3413	31.4	15	21.5	24	-3	1.4	20	2.0	15.0	35.1	19.3
20	ND10-3459	33.5	11	27.4	5	-3	1.3	21	1.7	13.8	34.9	19.2
21	ND10-3460	28.1	23	26.9	8	-2	1.6	20	2.0	13.7	34.9	19.3
22	ND10-3464	34.5	8	25.1	14	-5	1.4	21	2.0	13.9	35.4	19.0
23	ND10-3473	37.3	2	23.8	19	-5	1.3	23	1.3	13.6	35.3	19.2
24	ND10-3482	36.5	3	25.3	13	-5	1.4	22	1.0	13.3	35.3	19.3
25	ND10-3495	33.8	9	27.2	6	-4	1.3	21	1.7	13.5	35.4	19.4
26	ND10-3600	31.2	16	25.8	12	-4	1.4	19	1.7	13.3	34.7	19.4
27	ND10-4423	27.3	26	22.9	22	-11	1.5	21	1.7	14.1	35.4	19.4

2013 SCN PRELIMINARY TEST 0

Yield (bu/a)

		Stewart MN	Waseca MN	Rosemount MN
	SCN HG Type	2.5.7	2.5.7	NI
	Strain			
1	Sheyenne	24.8	36.6	24.2
2	MN1410	25.0	39.9	30.4
3	Surge	25.3	36.1	26.8
4	MN0095	23.2	33.0	23.6
5	MN0606CN	33.3	36.8	30.5
6	M07-254005	25.2	31.8	21.6
7	M07-257006	25.9	33.8	23.8
8	M07-285050	26.6	36.5	24.6
9	M07-285053	25.0	33.5	24.0
10	M07-291102	32.4	35.1	26.5
11	M07-292111	25.9	34.4	28.3
12	M07-296048	36.8	39.3	26.5
13	M07-297083	30.7	39.1	30.5
14	M07-298022	31.9	39.9	24.3
15	M08-151025	31.5	37.9	27.0
16	ND10-2522	32.5	31.9	20.2
17	ND10-2763	25.9	28.4	20.5
18	ND10-2993	25.2	30.8	20.6
19	ND10-3413	29.2	33.5	21.5
20	ND10-3459	30.0	36.9	27.4
21	ND10-3460	22.3	33.9	26.9
22	ND10-3464	34.8	34.1	25.1
23	ND10-3473	35.4	39.2	23.8
24	ND10-3482	38.4	34.5	25.3
25	ND10-3495	32.9	34.7	27.2
26	ND10-3600	31.2	31.2	25.8
27	ND10-4423	23.2	31.3	22.9
	Average	29.1	35.0	25.2
	LSD(.05)	5.9	6.6	6.6
	C.V. %	11.9	11.3	11.3
	Replications	3	3	3
	Row width (in.)	30	30	30

2013 SCN PRELIMINARY TEST 0

Yield (rank)

		Stewart MN	Waseca MN	Rosemount MN
	SCN HG Type	2.5.7	2.5.7	NI
	Strain			
1	Sheyenne	24	9	17
2	MN1410	22	1	3
3	Surge	19	11	9
4	MN0095	25	21	21
5	MN0606CN	5	8	1
6	M07-254005	20	23	23
7	M07-257006	16	18	19
8	M07-285050	15	10	15
9	M07-285053	22	19	18
10	M07-291102	8	12	10
11	M07-292111	16	15	4
12	M07-296048	2	3	10
13	M07-297083	12	5	1
14	M07-298022	9	1	16
15	M08-151025	10	6	7
16	ND10-2522	7	22	27
17	ND10-2763	16	27	26
18	ND10-2993	20	26	25
19	ND10-3413	14	20	24
20	ND10-3459	13	7	5
21	ND10-3460	27	17	8
22	ND10-3464	4	16	14
23	ND10-3473	3	4	19
24	ND10-3482	1	14	13
25	ND10-3495	6	13	6
26	ND10-3600	11	25	12
27	ND10-4423	25	24	22

2013 SCN PRELIMINARY TEST 0

Maturity

		Stewart MN	Waseca MN	Rosemount MN
	SCN HG Type	2.5.7	2.5.7	NI
	Strain			
1	Sheyenne	9/26	9/15	9/26
2	MN1410	5	5	2
3	Surge	3	-2	-1
4	MN0095	-6	-11	-7
5	MN0606CN	-1	2	0
6	M07-254005	-6	-6	-5
7	M07-257006	-7	-2	1
8	M07-285050	-3	0	-2
9	M07-285053	-7	-7	-3
10	M07-291102	-5	-3	-3
11	M07-292111	-3	-6	-5
12	M07-296048	-6	-2	-3
13	M07-297083	-2	4	0
14	M07-298022	-3	-3	-3
15	M08-151025	-3	0	1
16	ND10-2522	-4	-8	-6
17	ND10-2763	-4	-8	-5
18	ND10-2993	-4	-10	-6
19	ND10-3413	-5	-1	-4
20	ND10-3459	-4	-3	-3
21	ND10-3460	-4	0	-3
22	ND10-3464	-7	-3	-7
23	ND10-3473	-7	-4	-5
24	ND10-3482	-6	-3	-7
25	ND10-3495	-7	-3	-5
26	ND10-3600	-3	-3	-4
27	ND10-4423	-5	-11	-11
	Planted	5/24	5/14	5/15

2013 SCN PRELIMINARY TEST 0

Lodging (score)

		Stewart MN	Waseca MN	Rosemount MN
	SCN HG Type	2.5.7	2.5.7	NI
	Strain			
1	Sheyenne	1.0	2.0	1.0
2	MN1410	1.3	2.7	1.3
3	Surge	1.0	1.7	1.0
4	MN0095	1.0	2.0	4.7
5	MN0606CN	1.0	3.0	1.0
6	M07-254005	1.0	2.3	1.3
7	M07-257006	1.0	2.7	1.7
8	M07-285050	1.0	2.7	1.3
9	M07-285053	1.0	2.0	1.0
10	M07-291102	2.0	2.0	1.3
11	M07-292111	1.0	2.0	1.0
12	M07-296048	1.0	2.3	1.3
13	M07-297083	1.0	3.0	1.0
14	M07-298022	1.0	2.3	1.0
15	M08-151025	1.0	2.0	1.0
16	ND10-2522	1.0	2.0	1.0
17	ND10-2763	1.0	2.0	1.3
18	ND10-2993	1.0	2.0	1.3
19	ND10-3413	1.0	2.3	1.0
20	ND10-3459	1.0	2.0	1.0
21	ND10-3460	1.7	2.0	1.0
22	ND10-3464	1.3	2.0	1.0
23	ND10-3473	1.0	2.0	1.0
24	ND10-3482	1.0	2.0	1.3
25	ND10-3495	1.0	2.0	1.0
26	ND10-3600	1.0	2.0	1.3
27	ND10-4423	1.3	2.0	1.3

2013 SCN PRELIMINARY TEST 0

Height (inches)

		Stewart MN	Waseca MN	Rosemount MN
	SCN HG Type	2.5.7	2.5.7	NI
	Strain			
1	Sheyenne		26	18
2	MN1410		30	18
3	Surge		24	20
4	MN0095		18	19
5	MN0606CN		27	21
6	M07-254005		25	18
7	M07-257006		23	16
8	M07-285050		27	17
9	M07-285053		27	20
10	M07-291102		23	19
11	M07-292111		25	20
12	M07-296048		27	21
13	M07-297083		31	17
14	M07-298022		29	17
15	M08-151025		27	17
16	ND10-2522		23	16
17	ND10-2763		23	16
18	ND10-2993		20	15
19	ND10-3413		25	14
20	ND10-3459		23	18
21	ND10-3460		23	16
22	ND10-3464		23	18
23	ND10-3473		27	18
24	ND10-3482		25	19
25	ND10-3495		25	17
26	ND10-3600		23	15
27	ND10-4423		21	20

2013 SCN PRELIMINARY TEST 0

Seed Quality (score)

		Stewart MN	Waseca MN	Rosemount MN
	SCN HG Type	2.5.7	2.5.7	NI
	Strain			
1	Sheyenne	3.0	1.0	2.0
2	MN1410	2.0	1.0	1.0
3	Surge	3.0	1.0	2.0
4	MN0095	2.0	1.0	1.0
5	MN0606CN	1.0	1.0	1.0
6	M07-254005	1.0	1.0	2.0
7	M07-257006	1.0	2.0	1.0
8	M07-285050	1.0	1.0	2.0
9	M07-285053	2.0	1.0	2.0
10	M07-291102	1.0	1.0	2.0
11	M07-292111	3.0	1.0	1.0
12	M07-296048	1.0	1.0	1.0
13	M07-297083	1.0	1.0	2.0
14	M07-298022	2.0	1.0	2.0
15	M08-151025	3.0	2.0	2.0
16	ND10-2522	2.0	2.0	3.0
17	ND10-2763	3.0	2.0	2.0
18	ND10-2993	2.0	2.0	3.0
19	ND10-3413	3.0	1.0	2.0
20	ND10-3459	2.0	1.0	2.0
21	ND10-3460	2.0	2.0	2.0
22	ND10-3464	2.0	2.0	2.0
23	ND10-3473	1.0	1.0	2.0
24	ND10-3482	1.0	1.0	1.0
25	ND10-3495	1.0	2.0	2.0
26	ND10-3600	2.0	2.0	1.0
27	ND10-4423	2.0	1.0	2.0

2013 SCN PRELIMINARY TEST 0

Seed Weight (g/100)

		Stewart MN	Waseca MN	Rosemount MN
	SCN HG Type	2.5.7	2.5.7	NI
	Strain			
1	Sheyenne	13.9	15.3	14.0
2	MN1410	14.6	16.9	14.9
3	Surge	16.9	16.9	18.3
4	MN0095	11.8	12.2	12.7
5	MN0606CN	13.7	13.7	14.0
6	M07-254005	11.7	13.8	11.7
7	M07-257006	10.2	9.7	9.3
8	M07-285050	14.8	15.8	14.8
9	M07-285053	12.8	14.1	14.3
10	M07-291102	13.4	12.7	13.1
11	M07-292111	14.1	12.0	13.2
12	M07-296048	13.5	14.3	13.4
13	M07-297083	12.8	12.7	12.9
14	M07-298022	17.4	12.2	16.0
15	M08-151025	14.9	14.8	14.6
16	ND10-2522	12.8	12.5	13.9
17	ND10-2763	15.8	13.9	14.1
18	ND10-2993	12.6	12.3	12.1
19	ND10-3413	13.4	18.0	13.5
20	ND10-3459	12.8	14.2	14.3
21	ND10-3460	13.0	14.9	13.2
22	ND10-3464	13.1	14.6	13.9
23	ND10-3473	13.1	14.0	13.7
24	ND10-3482	13.3	13.5	13.2
25	ND10-3495	13.9	13.1	13.4
26	ND10-3600	13.7	12.9	13.4
27	ND10-4423	14.4	13.7	14.2

2013 SCN PRELIMINARY TEST 0

Protein (%)

		Stewart MN	Waseca MN	Rosemount MN
	SCN HG Type	2.5.7	2.5.7	NI
	Strain			
1	Sheyenne	33.9	34.2	35.7
2	MN1410	35.7	34.7	35.8
3	Surge	35.1	35.8	36.6
4	MN0095	34.5	34.3	35.6
5	MN0606CN	34.1	33.7	35.1
6	M07-254005	33.4	34.1	34.3
7	M07-257006	34.6	34.6	34.6
8	M07-285050	35.1	33.8	34.0
9	M07-285053	34.8	34.2	35.0
10	M07-291102	34.2	33.9	35.2
11	M07-292111	36.2	33.3	36.0
12	M07-296048	34.1	34.3	34.7
13	M07-297083	34.8	36.1	35.1
14	M07-298022	35.7	35.2	37.0
15	M08-151025	34.3	34.6	35.1
16	ND10-2522	34.1	34.9	34.8
17	ND10-2763	33.4	34.0	34.9
18	ND10-2993	34.1	32.9	35.1
19	ND10-3413	34.9	35.4	35.1
20	ND10-3459	34.6	35.2	35.0
21	ND10-3460	34.1	34.6	36.0
22	ND10-3464	35.4	35.2	35.5
23	ND10-3473	34.9	34.5	36.5
24	ND10-3482	35.2	34.9	35.8
25	ND10-3495	35.3	34.5	36.3
26	ND10-3600	33.7	35.2	35.2
27	ND10-4423	35.2	35.2	35.7

2013 SCN PRELIMINARY TEST 0

Oil (%)

		Stewart MN	Waseca MN	Rosemount MN
	SCN HG Type	2.5.7	2.5.7	NI
	Strain			
1	Sheyenne	19.7	19.4	18.0
2	MN1410	18.2	19.3	18.1
3	Surge	19.9	19.0	18.1
4	MN0095	19.7	19.4	18.4
5	MN0606CN	19.2	19.8	18.3
6	M07-254005	20.2	20.3	18.7
7	M07-257006	18.4	18.3	18.2
8	M07-285050	19.5	20.1	19.0
9	M07-285053	19.8	19.8	19.1
10	M07-291102	20.0	19.3	18.4
11	M07-292111	19.4	19.8	18.7
12	M07-296048	19.0	18.8	18.2
13	M07-297083	19.3	18.2	18.3
14	M07-298022	19.3	19.2	17.7
15	M08-151025	19.8	19.1	18.0
16	ND10-2522	19.8	19.4	19.4
17	ND10-2763	19.8	19.5	18.8
18	ND10-2993	19.8	19.6	19.1
19	ND10-3413	19.5	19.6	18.9
20	ND10-3459	19.4	19.2	19.1
21	ND10-3460	19.8	19.2	18.9
22	ND10-3464	19.3	19.0	18.6
23	ND10-3473	19.6	19.7	18.3
24	ND10-3482	19.7	19.4	18.8
25	ND10-3495	19.8	19.6	18.7
26	ND10-3600	19.9	19.3	19.1
27	ND10-4423	19.9	19.2	19.1

2013 SCN UNIFORM TEST I

	Strain	Descriptive code	Parentage
1	MN1410	WGbf	Unknown
2	IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024
3	Sheyenne (0)	PGy	Pioneer 9071 x A96-492041
4	AR09-191018	PGbf	Agripro 97284-N00-47977 x AR02-101001
5	LD10- 5903a	PGibl	M99-286047 x LD05-16638
6	M05-353086	P+WTy	MN0902CN x M99-286047
7	M05-353151	PGy+bf	MN0902CN x M99-286047
8	M06-288155	PGy+bf	M00-365137 x M99-286050
9	M06-288190	WGbf	M00-365137 x M99-286050
10	M06-289273	WGy	M00-351195 x M00-365181
11	M07-209037	WGy	M90-184111 x MN0606CN

	Strain	Previous testing	Gen. Comp	SCN source	Traits
1	MN1410	8	F5	None	
2	IA1022 (SCN)	6	F5	PI88788	
3	Sheyenne (0)	5	F4	None	Rsp1-c
4	AR09-191018	1	F5	Peking	
5	LD10- 5903a	12 SCN P I	F5	PI88788	Rag1
6	M05-353086	2	F5	PI88788	
7	M05-353151	2	F5	PI88788	
8	M06-288155	12 SCN P I	F5	PI88788	
9	M06-288190	12 SCN P I	F5	PI88788	
10	M06-289273	12 SCN P I	F5	PI88788	
11	M07-209037	12 SCN P I	F5	PI88788	

2013 SCN UNIFORM TEST I

	IL SCN screen			
	HG Type 0		HG Type 2.5.7	
Strain	FI	rating	FI	rating
1 MN1410	73	NR	72	NR
2 IA1022 (SCN)	4	HR	59	LR
3 Sheyenne (0)	64	NR	76	NR
4 AR09-191018	0	HR	9	HR
5 LD10- 5903a	2	HR	58	LR
6 M05-353086	1	HR	67	NR
7 M05-353151	2	HR	50	LR
8 M06-288155	1	HR	55	LR
9 M06-288190	1	HR	72	NR
10 M06-289273	2	HR	55	LR
11 M07-209037	1	HR	53	LR

	ISU IDC	ISU IDC	MN IDC
	Bruner	N. Woodruff	Danvers
Strain	score	score	score
1 MN1410	4.0	3.0	2.9
2 IA1022 (SCN)	1.0	2.8	2.9
3 Sheyenne (0)	2.3	2.0	3.1
4 AR09-191018	3.0	2.8	3.6
5 LD10- 5903a	1.3	.	3.4
6 M05-353086	2.0	3.5	3.5
7 M05-353151	3.5	3.3	3.6
8 M06-288155	.	3.0	3.5
9 M06-288190	1.0	2.3	3.8
10 M06-289273	2.8	3.0	3.4
11 M07-209037	2.5	3.0	3.6
A11 (res)	1.4	1.1	
Dwight (sus)	2.6	2.8	
LSD	1.1	1.0	

2013 SCN UNIFORM TEST I

Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	8		1		8	9	8	7	7	7	7
1	MN1410	41.1	10	44.3	9	9/16	1.6	29	1.6	15.4	36.1	18.4
2	IA1022 (SCN)	46.2	5	49.0	3	6	1.8	27	1.3	15.8	33.0	20.1
3	Sheyenne (0)	32.8	11	41.8	10	-5	1.4	25	1.8	14.9	34.8	18.7
4	AR09-191018	51.2	1	52.4	1	6	1.9	32	1.4	14.7	34.8	19.0
5	LD10- 5903a	48.1	3	49.4	2	8	1.4	29	1.6	16.5	36.2	17.9
6	M05-353086	45.3	6	45.5	8	4	1.3	26	1.9	17.9	36.3	17.6
7	M05-353151	42.5	8	47.9	4	0	1.5	26	1.7	15.8	36.5	17.7
8	M06-288155	49.4	2	46.8	6	2	2.2	32	1.4	15.2	35.8	17.5
9	M06-288190	45.2	7	46.5	7	2	1.6	28	2.0	16.2	35.5	17.7
10	M06-289273	42.2	9	38.9	11	-5	1.5	26	1.9	15.5	35.6	18.5
11	M07-209037	47.9	4	47.6	5	4	1.7	26	1.1	16.0	33.5	19.4

2 Year Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	19		3		17	19	17	17	18	17	17
1	MN1410	40.4	5	48.0	5	9/14	1.5	31.6	1.5	15.6	36.1	18.5
2	IA1022 (SCN)	49.7	2	53.4	1	5	1.8	32.3	1.3	15.7	33.0	20.0
3	Sheyenne (0)	32.6	6	44.3	6	-6	1.3	28.7	1.7	14.7	34.6	18.9
4	AR09-191018	52.0	1	53.3	2	5	1.7	35.5	1.4	15.1	34.5	19.3
7	M05-353086	47.9	3	50.3	3	3	1.2	29.6	1.7	17.2	35.7	17.9
8	M05-353151	43.7	4	48.3	4	-1	1.4	29.8	1.5	15.7	36.0	17.9

2013 SCN UNIFORM TEST I

Yield (bu/a)

		Mason City IA	Newell IA	Dekalb IL	Lamber-ton MN	Stewart MN	Waseca MN	Chatham ON	Harrow ON	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.7	2.5.7	NI
	Strain									
1	MN1410	55.1	30.8	56.2	34.0	35.1	44.7	17.3	55.3	44.3
2	IA1022 (SCN)	54.1	33.4	54.3	34.8	41.1	47.8	43.0	60.8	49.0
3	Sheyenne (0)	55.8	18.2	29.3	30.6	27.4	39.9	17.4	43.6	41.8
4	AR09-191018	48.5	49.7	58.4	41.1	46.1	51.2	60.6	54.2	52.4
5	LD10- 5903a	60.3	39.9	61.8	39.1	36.1	52.1	44.7	50.7	49.4
6	M05-353086	57.2	28.8	46.5	33.7	41.5	47.8	50.9	56.4	45.5
7	M05-353151	54.8	33.0	45.8	36.1	39.0	46.8	35.3	49.0	47.9
8	M06-288155	57.2	46.5	55.0	33.5	46.1	52.6	50.0	54.7	46.8
9	M06-288190	59.3	31.3	48.9	32.4	30.0	51.3	46.2	62.3	46.5
10	M06-289273	56.5	29.3	36.2	35.7	40.6	43.2	44.3	51.8	38.9
11	M07-209037	59.1	38.0	49.9	39.5	40.9	44.9	45.6	65.5	47.6
	Average	56.2	34.4	49.3	35.5	38.5	47.4	41.4	54.9	46.4
	LSD(.05)	4.0	13.4	10.7	6.9	6.2	7.9	13.1	6.4	8.1
	C.V. %	3.2	17.5	9.8	11.9	9.8	10.1	15.3	7.3	8.0
	Replications	2	2	2	3	3	3	3	3	2
	Row width (in.)	30	30	30	30	30	30	24	24	30

2013 SCN UNIFORM TEST I

Yield (rank)

		Mason City IA	Newell IA	Dekalb IL	Lamber-ton MN	Stewart MN	Waseca MN	Chatham ON	Harrow ON	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.7	2.5.7	NI
	Strain									
1	MN1410	8	8	3	7	9	9	11	5	9
2	IA1022 (SCN)	10	5	5	6	4	5	8	3	3
3	Sheyenne (0)	7	11	11	11	11	11	10	11	10
4	AR09-191018	11	1	2	1	1	4	1	7	1
5	LD10- 5903a	1	3	1	3	8	2	6	9	2
6	M05-353086	4	10	8	8	3	5	2	4	8
7	M05-353151	9	6	9	4	7	7	9	10	4
8	M06-288155	4	2	4	9	1	1	3	6	6
9	M06-288190	2	7	7	10	10	3	4	2	7
10	M06-289273	6	9	10	5	6	10	7	8	11
11	M07-209037	3	4	6	2	5	8	5	1	5

Maturity

		Mason City IA	Newell IA	Dekalb IL	Lamber-ton MN	Stewart MN	Waseca MN	Chatham ON	Harrow ON	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.7	2.5.7	NI
	Strain									
1	MN1410	9/13		9/12	9/22	9/22	9/21	9/9*	9/21	9/1
2	IA1022 (SCN)	6		7	5	5	5	14	7	5
3	Sheyenne (0)	-6		-3	-4	-4	-9	1	-5	-5
4	AR09-191018	4		11	5	5	6	18	5	5
5	LD10- 5903a	7		14	7	7	8	19	7	5
6	M05-353086	2		4	6	6	4	14	1	4
7	M05-353151	-2		0	0	0	0	7	-2	2
8	M06-288155	3		2	1	1	4	9	2	2
9	M06-288190	3		1	-1	-1	5	13	6	4
10	M06-289273	-6		0	-9	-9	-7	2	-3	-3
11	M07-209037	4		6	2	2	3	14	7	1
	Planted	6/3	5/15	5/14	5/17	5/14	5/15	5/27	6/7	5/15

*Data not included when calculting means for summary table.

2013 SCN UNIFORM TEST I

Lodging (score)

		Mason City IA	Newell IA	Dekalb IL	Lamber-ton MN	Stewart MN	Waseca MN	Chatham ON	Harrow ON	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.7	2.5.7	NI
	Strain									
1	MN1410	3.0	1.0	1.5	1.0	1.0	2.7	1.0	2.3	1.3
2	IA1022 (SCN)	3.3	1.0	1.5	1.3	2.0	3.0	1.0	1.5	1.5
3	Sheyenne (0)	1.8	1.0	1.0	1.0	1.0	1.7	1.0	2.5	1.3
4	AR09-191018	2.5	1.5	1.8	1.7	2.0	2.0	1.0	3.0	1.3
5	LD10- 5903a	2.0	1.3	1.8	1.0	1.0	2.0	1.0	1.2	1.0
6	M05-353086	1.5	2.0	1.5	1.0	1.0	1.7	1.0	1.0	1.0
7	M05-353151	2.0	1.0	1.3	1.0	2.0	2.0	1.0	2.0	1.0
8	M06-288155	3.8	1.5	2.0	1.3	2.0	3.0	1.0	3.8	1.8
9	M06-288190	3.3	1.3	1.5	1.0	1.0	3.0	1.0	1.7	1.0
10	M06-289273	2.8	1.0	1.3	1.0	1.0	2.0	1.0	2.0	1.0
11	M07-209037	3.3	1.0	1.3	1.0	1.0	2.7	1.0	2.5	1.5

Height (inches)

		Mason City IA	Newell IA	Dekalb IL	Lamber-ton MN	Stewart MN	Waseca MN	Chatham ON	Harrow ON	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.7	2.5.7	NI
	Strain									
1	MN1410	38	20	31		26	27	19	37	34
2	IA1022 (SCN)	34	20	25		23	29	20	35	29
3	Sheyenne (0)	32	20	22		19	25	19	34	28
4	AR09-191018	40	26	25		31	31	30	40	32
5	LD10- 5903a	33	26	27		28	31	21	36	30
6	M05-353086	29	20	27		23	27	22	31	31
7	M05-353151	33	20	27		24	27	20	33	26
8	M06-288155	35	28	31		32	35	27	38	33
9	M06-288190	34	20	27		23	33	23	37	28
10	M06-289273	34	18	23		20	27	23	37	28
11	M07-209037	35	20	24		21	27	19	33	25

2013 SCN UNIFORM TEST I

Seed Quality (score)

		Mason City IA	Newell IA	Dekalb IL	Lamber-ton MN	Stewart MN	Waseca MN	Chatham ON	Harrow ON	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.7	2.5.7	NI
	Strain									
1	MN1410	2.0			2.0	3.0	1.0	1.0	1.0	1.0
2	IA1022 (SCN)	2.0			2.0	1.0	1.0	1.0	1.3	1.0
3	Sheyenne (0)	2.0			2.0	2.0	2.0	1.0	1.3	2.0
4	AR09-191018	2.0			2.0	1.0	1.0	1.0	1.0	2.0
5	LD10- 5903a	2.0			1.0	3.0	1.0	1.0	1.3	2.0
6	M05-353086	2.0			2.0	2.0	1.0	1.0	1.0	4.0
7	M05-353151	2.0			2.0	3.0	1.0	1.0	1.0	2.0
8	M06-288155	2.0			1.0	2.0	1.0	1.0	1.0	2.0
9	M06-288190	2.0			2.0	3.0	2.0	1.0	2.0	2.0
10	M06-289273	2.0			2.0	3.0	2.0	1.0	2.0	1.0
11	M07-209037	2.0			1.0	1.0	1.0	1.0	1.0	1.0

Seed Weight (g/100)

		Mason City IA	Newell IA	Dekalb IL	Lamber-ton MN	Stewart MN	Waseca MN	Chatham ON	Harrow ON	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.7	2.5.7	NI
	Strain									
1	MN1410	14.7			14.9	15.5	17.8	12.3	16.4	16.2
2	IA1022 (SCN)	13.1			15.8	15.8	16.4	15.9	18.8	15.0
3	Sheyenne (0)	12.9			14.6	14.8	15.9	13.1	15.8	16.9
4	AR09-191018	12.8			13.1	14.4	14.5	16.1	18.2	13.9
5	LD10- 5903a	16.2			14.6	15.5	17.4	17.4	19.3	15.4
6	M05-353086	16.6			16.1	16.1	18.2	19.4	21.0	18.0
7	M05-353151	14.2			14.4	15.5	15.7	16.3	17.4	16.9
8	M06-288155	13.9			13.6	14.7	15.9	16.2	16.1	15.6
9	M06-288190	14.6			14.9	15.5	15.8	16.5	18.3	17.6
10	M06-289273	13.9			14.0	15.9	15.7	15.1	17.4	16.4
11	M07-209037	13.5			15.1	15.6	16.0	16.4	18.4	16.7

2013 SCN UNIFORM TEST I

Protein (%)

		Mason City IA	Newell IA	Dekalb IL	Lamber-ton MN	Stewart MN	Waseca MN	Chatham ON	Harrow ON	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.7	2.5.7	NI
	Strain									
1	MN1410	37.2			37.3	34.8	35.7	36.4	36.1	35.3
2	IA1022 (SCN)	33.4			33.9	32.7	31.8	34.1	34.2	31.2
3	Sheyenne (0)	33.4			36.6	34.3	33.8	35.7	35.3	34.7
4	AR09-191018	36.9			35.2	32.8	32.8	35.5	37.5	32.7
5	LD10- 5903a	37.1			35.9	35.4	36.1	37.6	37.8	33.8
6	M05-353086	38.4			36.1	34.8	35.3	37.2	38.1	34.3
7	M05-353151	38.0			37.3	36.1	35.3	36.5	37.8	34.4
8	M06-288155	36.8			35.7	35.3	34.9	35.9	35.9	35.7
9	M06-288190	36.0			34.7	35.0	35.3	35.9	36.5	34.9
10	M06-289273	35.5			35.6	36.6	35.4	35.8	36.7	33.6
11	M07-209037	34.6			33.9	33.4	32.6	33.5	33.8	32.8

Oil(%)

		Mason City IA	Newell IA	Dekalb IL	Lamber-ton MN	Stewart MN	Waseca MN	Chatham ON	Harrow ON	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.7	2.5.7	NI
	Strain									
1	MN1410	17.0			18.8	19.6	18.8	17.9	18.7	18.1
2	IA1022 (SCN)	18.6			20.3	20.1	20.8	20.6	20.1	20.0
3	Sheyenne (0)	18.7			18.7	19.7	19.4	18.4	18.0	18.3
4	AR09-191018	16.8			18.7	19.6	20.1	19.6	18.3	19.7
5	LD10- 5903a	16.7			18.4	17.3	18.3	18.2	17.7	18.8
6	M05-353086	15.9			18.1	18.0	18.3	17.6	17.0	18.3
7	M05-353151	16.8			17.8	17.1	18.7	18.2	17.0	18.3
8	M06-288155	15.8			17.8	17.7	18.4	18.0	17.3	17.3
9	M06-288190	16.3			18.7	18.2	17.7	17.9	17.2	17.5
10	M06-289273	18.5			19.1	17.9	19.0	18.4	17.9	18.5
11	M07-209037	17.8			19.8	19.1	19.5	20.4	19.8	19.5

	Strain	Descriptive code	Parentage
1	MN1410	WGbf	Unknown
2	IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024
3	Sheyenne (0)	PGy	Pioneer 9071 x A96-492041
4	AR12-127007	PLtbl	AR05-250103 x Golden Harvest X 33802
5	AR12-127008	PLtbl	Syngenta 04KL108370 x A95-684043
6	AR12-127013	PGibl	AR03-161009 x AR05-150139
7	AR12-127048	WGy/bf	AR07-175036 x PI 90763
8	AR12-127053	PGbf	AR03-161009 x Venera
9	AR12-127054	WGbf	AR03-161009 x Venera
10	AR12-127061	PGgr	AR2 x Golden Harvest X 33802
11	AR12-127066	WGbf	AR06-264007 x Golden Harvest X 33686
12	AR12-127075	PT+Ltbl	AR05-250103 x Golden Harvest X 33802
13	AR12-127076	PGibl	AR05-250103 x Golden Harvest H-2632
14	AR12-127080	PLtbl	Syngenta 04RM820808 x A95-684043
15	AR12-127091	PGbf	AR03-161009 x AR06-365042
16	AR12-127092	PGbf	AR03-161009 x AR06-365042
17	AR12-127102	PLtbl	AR03-161009 x Syngenta 05JR200591
18	AR12-127109	PGibl	AR1 x Proteinka
19	LD10-682	PLtbl	Dairyland 75006 x U03-360120
20	LD10-5895a	PGbf/ibl	M99-286047 x LD05-16638
21	LD11-05223a	PGibl	AR07-175064 x LDX08-211a
22	LD11-05254a	PT+Ltbl	AR07-175064 x LDX08-210a
23	LD11-05262a	WGbf	AR07-175064 x LDX08-210a
24	M07-294030	WGy/bf	MN1701CN x MN0602
25	M07-297004	PTy/br	MN0902CN x LD02-5320
26	M07-297007	P+WTbl	MN0902CN x LD02-5320
27	M07-297052	PTgr	MN0902CN x LD02-5320
28	M08-151006	WGy/bf	M00-116161 x M99-286047
29	M08-151080	PTbr	M00-116161 x M99-286047
30	M08-151086	PTy	M00-116161 x M99-286047

	Strain	Gen comp	SCN source	Traits
1	MN1410	F5	None	
2	IA1022 (SCN)	F5	PI88788	
3	Sheyenne (0)	F4	None	Rsp1-c
4	AR12-127007	F4	PI88788	SDS, IDC
5	AR12-127008	F4	PI90763	
6	AR12-127013	F4	PI507354 / PI88788	
7	AR12-127048	F4	PI90763	
8	AR12-127053	F4	PI507354 / PI88788	
9	AR12-127054	F4	PI507354 / PI88788	
10	AR12-127061	F4	PI88788	SDS, IDC
11	AR12-127066	F4	PI88788	SDS, IDC
12	AR12-127075	F4	PI88788	SDS, IDC
13	AR12-127076	F4	PI88788	SDS, IDC
14	AR12-127080	F4	PI90763	
15	AR12-127091	F4	PI507354 / PI88788	
16	AR12-127092	F4	PI507354 / PI88788	
17	AR12-127102	F4	PI507354 / PI88788	
18	AR12-127109	F4	PI88788	
19	LD10-682	F5	PI88788	
20	LD10-5895a	F5	PI88788	Rag1
21	LD11-05223a	F5	PI88788	Rag2
22	LD11-05254a	F5	PI88788	Rag2
23	LD11-05262a	F5	PI88788	Rag2
24	M07-294030	F5	PI88788	
25	M07-297004	F5	PI88788	
26	M07-297007	F5	PI88788	
27	M07-297052	F5	PI88788	
28	M08-151006	F5	PI88788	
29	M08-151080	F5	PI88788	
30	M08-151086	F5	PI88788	

2013 SCN PRELIMINARY TEST I

	IL SCN screen				ISU IDC	ISU IDC	MN IDC
	HG Type 0		HG Type 2.5.7		Bruner	N. Woodruff	Davners
Strain	FI	rating	score	rating	score	score	score
1 MN1410	73	NR	72	NR	4.0	3.0	3.3
2 IA1022 (SCN)	4	HR	59	LR	1.0	2.8	2.9
3 Sheyenne (0)	64	NR	76	NR	2.3	2.0	2.9
4 AR12-127007	6	HR	63	NR	1.5	1.5	2.8
5 AR12-127008	1	HR	65	NR	2.8	3.3	3.4
6 AR12-127013	1	HR	55	LR	2.0	.	3.0
7 AR12-127048	12	R	71	NR	3.0	3.0	3.5
8 AR12-127053	7	HR	61	NR	1.5	3.0	3.4
9 AR12-127054	4	HR	60	NR	3.5	3.0	3.6
10 AR12-127061	5	HR	65	NR	1.8	2.5	2.8
11 AR12-127066	3	HR	69	NR	2.0	2.5	3.6
12 AR12-127075	5	HR	50	LR	3.0	3.5	3.5
13 AR12-127076	10	R	55	LR	1.3	3.5	2.4
14 AR12-127080	5	HR	53	LR	4.0	3.3	3.5
15 AR12-127091	5	HR	48	LR	2.5	3.0	2.8
16 AR12-127092	8	HR	56	LR	2.5	3.0	3.5
17 AR12-127102	2	HR	55	LR	3.0	3.3	3.5
18 AR12-127109	1	HR	49	LR	3.3	2.5	3.3
19 LD10-682	93	NR	70	NR	3.5	2.5	3.3
20 LD10-5895a	4	HR	55	LR	4.0	3.3	3.5
21 LD11-05223a	3	HR	66	NR	3.5	2.8	2.6
22 LD11-05254a	5	HR	54	LR	2.3	3.3	3.6
23 LD11-05262a	4	HR	57	LR	3.0	3.0	3.8
24 M07-294030	25	**	80	NR	2.3	3.0	3.0
25 M07-297004	3	HR	55	LR	1.5	1.8	2.4
26 M07-297007	3	HR	55	LR	3.0	3.0	3.1
27 M07-297052	3	HR	65	NR	1.0	2.5	2.5
28 M08-151006	6	HR	50	LR	2.5	3.0	3.1
29 M08-151080	3	HR	44	LR	4.0	3.3	3.9
30 M08-151086	3	HR	63	NR	2.5	3.0	3.6
				A11 (res)	1.4	1.1	
				Dwight (sus)	2.6	2.8	
				LSD	1.1	1.0	

**rep data too variable to rate

2013 SCN PRELIMINARY TEST I

Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Location	6		1		6	7	6	5	5	5	5
1	MN1410	48.2	25	44.3	30	9/17	1.6	31	1.8	16.8	35.3	19.0
2	IA1022 (SCN)	50.8	9	46.7	25	5	1.8	27	1.8	16.6	32.8	19.6
3	Sheyenne (0)	40.7	30	45.4	28	-5	1.4	25	2.4	16.4	34.6	19.0
4	AR12-127007	50.7	11	45.5	27	7	1.4	31	1.8	14.9	35.9	18.2
5	AR12-127008	50.8	9	49.2	21	5	1.5	28	1.6	17.9	33.8	18.9
6	AR12-127013	52.4	4	51.6	16	6	1.4	34	1.8	16.5	34.7	18.2
7	AR12-127048	47.6	27	53.2	6	6	2.1	34	1.4	18.4	34.8	18.6
8	AR12-127053	49.6	16	52.0	13	6	1.3	31	1.6	17.4	35.1	18.2
9	AR12-127054	50.5	13	50.9	19	6	2.2	34	1.2	17.0	34.4	18.8
10	AR12-127061	52.1	6	52.7	9	9	1.3	30	1.2	15.2	33.6	18.8
11	AR12-127066	51.0	8	54.5	3	9	1.6	30	1.4	16.3	35.3	18.3
12	AR12-127075	48.1	26	52.1	12	6	1.5	31	1.0	15.9	35.9	17.9
13	AR12-127076	49.2	20	49.0	22	10	1.8	31	1.4	13.5	33.8	18.7
14	AR12-127080	50.6	12	54.7	2	9	1.9	32	1.2	14.0	35.1	18.0
15	AR12-127091	49.3	18	58.3	1	1	1.6	28	1.6	18.9	35.5	17.9
16	AR12-127092	52.8	3	53.5	4	7	1.7	31	1.8	18.1	35.2	18.0
17	AR12-127102	53.8	1	53.1	7	11	1.6	34	1.6	18.0	39.6	20.8
18	AR12-127109	48.6	22	52.0	13	3	1.5	30	1.6	17.9	34.4	18.5
19	LD10-682	48.9	21	52.9	8	5	1.5	27	1.4	13.4	35.3	19.2
20	LD10-5895a	53.5	2	51.9	15	8	1.7	30	1.6	16.5	35.7	18.0
21	LD11-05223a	51.2	7	51.2	18	4	1.3	26	1.4	15.6	35.6	17.9
22	LD11-05254a	49.4	17	53.3	5	5	1.6	30	1.2	17.6	35.2	18.2
23	LD11-05262a	48.3	23	52.2	11	6	1.6	25	1.6	17.1	34.9	18.5
24	M07-294030	48.3	23	51.6	16	6	1.8	30	1.8	15.8	34.3	18.9
25	M07-297004	45.8	28	47.1	24	-2	1.3	28	2.2	17.1	35.5	19.3
26	M07-297007	52.2	5	50.4	20	4	1.7	30	1.6	15.3	36.1	18.2
27	M07-297052	49.8	15	52.6	10	3	1.9	30	1.4	14.7	35.6	18.5
28	M08-151006	49.3	18	48.7	23	2	2.0	31	1.4	17.0	35.1	18.1
29	M08-151080	45.4	29	46.0	26	2	1.6	27	1.6	16.5	37.0	17.9
30	M08-151086	50.3	14	44.8	29	0	1.7	31	2.0	16.0	35.0	18.6

2013 SCN PRELIMINARY TEST I

Yield (bu/a)

		Mason City IA	Newell IA	Dekalb IL	Lamberton MN	Stewart MN	Waseca MN	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	NI
	Strain							
1	MN1410	57.0	35.1	56.2	42.6	43.8	54.3	44.3
2	IA1022 (SCN)	56.8	44.0	54.3	41.1	46.2	62.6	49.0
3	Sheyenne (0)	57.9	20.8	29.3	40.0	38.6	57.3	41.8
4	AR12-127007	50.9	48.6	54.2	47.1	47.6	55.8	49.2
5	AR12-127008	59.1	42.3	57.0	41.5	45.1	59.8	49.1
6	AR12-127013	52.5	54.8	49.9	41.6	50.8	64.9	54.1
7	AR12-127048	52.4	37.0	54.7	41.5	42.2	57.5	52.2
8	AR12-127053	50.3	40.4	57.3	42.3	47.5	59.7	51.8
9	AR12-127054	57.8	41.7	57.0	41.3	46.3	59.2	49.9
10	AR12-127061	53.0	48.4	53.4	47.2	45.0	65.3	55.5
11	AR12-127066	53.0	48.9	57.6	41.3	45.2	60.0	53.4
12	AR12-127075	48.0	34.8	55.9	42.6	48.7	58.3	50.8
13	AR12-127076	45.0	30.5	64.9	42.8	48.3	63.9	47.1
14	AR12-127080	43.9	44.2	60.7	46.6	40.7	67.5	62.2
15	AR12-127091	54.1	34.9	54.0	45.1	46.7	61.2	54.3
16	AR12-127092	50.2	41.3	64.7	42.0	52.1	66.7	52.6
17	AR12-127102	55.1	49.4	61.5	45.6	43.6	67.4	53.5
18	AR12-127109	51.6	37.8	48.3	42.2	48.1	63.8	50.5
19	LD10-682	53.5	40.4	52.4	47.8	38.6	60.8	55.2
20	LD10-5895a	62.1	49.3	62.3	43.7	43.2	60.6	48.5
21	LD11-05223a	51.4	46.7	57.4	43.8	43.6	64.6	53.8
22	LD11-05254a	58.0	39.0	59.2	42.5	36.8	60.9	52.7
23	LD11-05262a	62.2	37.0	47.7	44.1	37.5	61.3	51.7
24	M07-294030	52.7	38.3	51.3	44.7	38.1	64.4	51.5
25	M07-297004	50.8	35.7	45.3	40.9	43.8	58.2	42.7
26	M07-297007	56.2	47.5	61.2	45.6	40.2	62.2	58.1
27	M07-297052	55.7	37.3	56.8	41.6	43.4	63.9	47.0
28	M08-151006	50.6	44.5	63.6	37.6	41.4	58.1	50.3
29	M08-151080	52.2	33.1	50.9	38.6	41.8	55.6	41.6
30	M08-151086	58.7	44.0	57.5	40.4	39.1	62.1	47.9
	Average	53.8	40.9	55.2	42.9	43.8	61.3	50.7
	LSD(.05)	5.9	14.1	10.7	6.4	8.3	7.4	8.1
	C.V. %	5.3	16.9	9.8	9.1	11.6	7.5	8.0
	Replications	2	2	2	2	2	2	2
	Row width (in.)	30	30	30	30	30	30	30

2013 SCN PRELIMINARY TEST I

Yield (rank)

		Mason City IA	Newell IA	Dekalb IL	Lamberton MN	Stewart MN	Waseca MN	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	NI
	Strain							
1	MN1410	8	25	16	13	14	30	27
2	IA1022 (SCN)	9	11	19	25	10	11	22
3	Sheyenne (0)	6	30	30	28	26	27	29
4	AR12-127007	23	5	20	3	6	28	20
5	AR12-127008	3	13	13	21	12	20	21
6	AR12-127013	18	1	26	19	2	5	6
7	AR12-127048	19	22	18	21	20	26	12
8	AR12-127053	26	16	12	16	7	21	13
9	AR12-127054	7	14	13	23	9	22	19
10	AR12-127061	15	6	22	2	13	4	3
11	AR12-127066	15	4	9	23	11	19	9
12	AR12-127075	28	27	17	13	3	23	16
13	AR12-127076	29	29	1	12	4	8	25
14	AR12-127080	30	10	7	4	23	1	1
15	AR12-127091	13	26	21	7	8	15	5
16	AR12-127092	27	15	2	18	1	3	11
17	AR12-127102	12	2	5	5	16	2	8
18	AR12-127109	21	20	27	17	5	10	17
19	LD10-682	14	16	23	1	26	17	4
20	LD10-5895a	2	3	4	11	19	18	23
21	LD11-05223a	22	8	11	10	16	6	7
22	LD11-05254a	5	18	8	15	30	16	10
23	LD11-05262a	1	22	28	9	29	14	14
24	M07-294030	17	19	24	8	28	7	15
25	M07-297004	24	24	29	26	14	24	28
26	M07-297007	10	7	6	5	24	12	2
27	M07-297052	11	21	15	19	18	8	26
28	M08-151006	25	9	3	30	22	25	18
29	M08-151080	20	28	25	29	21	29	30
30	M08-151086	4	11	10	27	25	13	24

2013 SCN PRELIMINARY TEST I

Maturity

		Mason City IA	Newell IA	Dekalb IL	Lamberton MN	Stewart MN	Waseca MN	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	NI
	Strain							
1	MN1410	9/13		9/12	9/23	9/24	9/26	9/1
2	IA1022 (SCN)	6		7	3	8	3	5
3	Sheyenne (0)	-4		-3	-4	-6	-8	-5
4	AR12-127007	2		14	5	9	4	5
5	AR12-127008	3		8	3	10	2	4
6	AR12-127013	6		11	0	10	3	6
7	AR12-127048	7		9	2	10	5	5
8	AR12-127053	5		10	2	12	3	2
9	AR12-127054	4		12	2	10	3	3
10	AR12-127061	7		13	5	14	7	7
11	AR12-127066	4		12	6	12	6	8
12	AR12-127075	4		9	4	10	5	3
13	AR12-127076	8		16	5	14	8	7
14	AR12-127080	6		15	4	14	4	7
15	AR12-127091	1		6	-1	0	-1	3
16	AR12-127092	3		9	4	10	5	7
17	AR12-127102	11		14	5	14	10	10
18	AR12-127109	3		3	-1	10	1	4
19	LD10-682	3		7	3	8	2	5
20	LD10-5895a	8		10	4	12	8	5
21	LD11-05223a	2		4	1	6	3	5
22	LD11-05254a	6		5	1	8	4	6
23	LD11-05262a	5		6	3	10	5	4
24	M07-294030	6		8	4	9	7	4
25	M07-297004	-2		0	0	-4	-5	0
26	M07-297007	4		2	3	6	4	5
27	M07-297052	4		5	3	1	2	6
28	M08-151006	5		1	2	2	2	3
29	M08-151080	1		2	-1	6	-2	3
30	M08-151086	0		0	0	1	-3	1
	Planted	6/3	5/15	5/14	5/17	5/14	5/15	5/15

2013 SCN PRELIMINARY TEST I

Lodging (score)

		Mason City IA	Newell IA	Dekalb IL	Lamberton MN	Stewart MN	Waseca MN	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	NI
	Strain							
1	MN1410	2.8	1.0	1.5	1.0	1.0	2.3	1.3
2	IA1022 (SCN)	2.8	1.5	1.5	1.0	2.0	2.3	1.5
3	Sheyenne (0)	1.8	1.5	1.0	1.0	1.0	2.0	1.3
4	AR12-127007	1.5	1.3	1.8	1.0	1.0	2.0	1.3
5	AR12-127008	2.0	1.8	1.5	1.0	1.0	2.0	1.0
6	AR12-127013	1.8	1.3	1.5	1.0	1.0	2.0	1.3
7	AR12-127048	3.0	2.0	3.0	1.3	1.0	2.7	1.8
8	AR12-127053	2.0	1.3	1.0	1.0	1.0	2.0	1.0
9	AR12-127054	3.5	2.0	1.8	1.7	2.0	2.3	1.8
10	AR12-127061	1.8	1.0	1.5	1.0	1.0	2.0	1.0
11	AR12-127066	2.0	1.5	1.5	1.0	2.0	2.0	1.5
12	AR12-127075	1.5	1.8	1.8	1.0	1.0	2.0	1.3
13	AR12-127076	2.3	3.0	2.0	1.0	1.0	2.3	1.3
14	AR12-127080	2.5	1.5	2.3	1.0	2.0	2.3	1.8
15	AR12-127091	2.5	1.3	1.8	1.0	1.0	1.3	2.0
16	AR12-127092	2.0	1.3	2.0	1.0	2.0	2.0	1.3
17	AR12-127102	2.3	1.8	1.5	1.3	1.0	2.0	1.3
18	AR12-127109	1.8	2.3	1.3	1.0	1.0	2.0	1.0
19	LD10-682	2.5	1.0	1.8	1.0	1.0	2.0	1.5
20	LD10-5895a	2.3	1.3	1.3	1.0	2.0	2.3	1.5
21	LD11-05223a	1.8	1.3	1.0	1.0	1.0	2.0	1.0
22	LD11-05254a	2.5	1.5	1.8	1.0	1.0	2.0	1.3
23	LD11-05262a	2.0	1.8	1.5	1.0	2.0	2.0	1.0
24	M07-294030	3.3	1.5	1.8	1.0	1.0	3.0	1.3
25	M07-297004	1.8	1.0	1.0	1.0	1.0	2.0	1.0
26	M07-297007	2.3	2.0	1.8	1.0	1.0	2.0	1.8
27	M07-297052	3.3	1.3	1.8	1.0	2.0	2.3	1.5
28	M08-151006	4.3	1.8	1.8	1.3	1.0	2.7	1.5
29	M08-151080	2.3	1.5	1.5	1.0	1.7	2.0	1.0
30	M08-151086	2.5	1.3	2.0	1.0	1.0	2.7	1.5

2013 SCN PRELIMINARY TEST I

Height (inches)

		Mason City IA	Newell IA	Dekalb IL	Lamberton MN	Stewart MN	Waseca MN	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	NI
	Strain							
1	MN1410	36	23	31		29	34	34
2	IA1022 (SCN)	34	22	25		26	29	29
3	Sheyenne (0)	32	15	22		23	29	28
4	AR12-127007	32	26	31		34	32	31
5	AR12-127008	32	20	29		28	29	28
6	AR12-127013	38	30	32		33	36	34
7	AR12-127048	41	28	32		34	36	36
8	AR12-127053	34	24	31		29	34	33
9	AR12-127054	41	29	33		34	35	33
10	AR12-127061	35	25	27		29	32	35
11	AR12-127066	31	26	31		25	32	33
12	AR12-127075	34	25	32		31	29	36
13	AR12-127076	36	24	31		32	33	32
14	AR12-127080	34	29	30		28	35	35
15	AR12-127091	34	23	28		26	22	34
16	AR12-127092	38	27	31		27	33	33
17	AR12-127102	39	27	34		30	39	36
18	AR12-127109	33	24	32		26	34	30
19	LD10-682	32	22	27		20	30	32
20	LD10-5895a	34	28	31		25	35	28
21	LD11-05223a	29	24	29		21	27	28
22	LD11-05254a	33	27	30		28	31	32
23	LD11-05262a	31	20	26		19	28	28
24	M07-294030	36	25	29		19	37	34
25	M07-297004	33	23	29		19	30	32
26	M07-297007	37	27	33		18	34	33
27	M07-297052	35	26	30		23	33	32
28	M08-151006	37	27	34		27	32	32
29	M08-151080	31	23	31		21	31	27
30	M08-151086	35	23	35		22	36	34

2013 SCN PRELIMINARY TEST I

Seed Quality (score)

		Mason City IA	Newell IA	Dekalb IL	Lamberton MN	Stewart MN	Waseca MN	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	NI
	Strain							
1	MN1410	2.0			2.0	2.0	2.0	1.0
2	IA1022 (SCN)	2.0			3.0	2.0	1.0	1.0
3	Sheyenne (0)	2.0			3.0	3.0	2.0	2.0
4	AR12-127007	2.0			2.0	2.0	2.0	1.0
5	AR12-127008	2.0			2.0	1.0	1.0	2.0
6	AR12-127013	2.0			3.0	1.0	1.0	2.0
7	AR12-127048	2.0			2.0	1.0	1.0	1.0
8	AR12-127053	2.0			2.0	1.0	1.0	2.0
9	AR12-127054	2.0			1.0	1.0	1.0	1.0
10	AR12-127061	2.0			1.0	1.0	1.0	1.0
11	AR12-127066	1.0			2.0	1.0	2.0	1.0
12	AR12-127075	1.0			1.0	1.0	1.0	1.0
13	AR12-127076	2.0			1.0	1.0	1.0	2.0
14	AR12-127080	2.0			1.0	1.0	1.0	1.0
15	AR12-127091	2.0			2.0	1.0	1.0	2.0
16	AR12-127092	2.0			2.0	2.0	2.0	1.0
17	AR12-127102	2.0			2.0	1.0	1.0	2.0
18	AR12-127109	2.0			2.0	1.0	1.0	2.0
19	LD10-682	2.0			1.0	2.0	1.0	1.0
20	LD10-5895a	2.0			2.0	1.0	2.0	1.0
21	LD11-05223a	1.0			1.0	2.0	2.0	1.0
22	LD11-05254a	1.0			1.0	2.0	1.0	1.0
23	LD11-05262a	2.0			2.0	1.0	1.0	2.0
24	M07-294030	2.0			2.0	2.0	1.0	2.0
25	M07-297004	2.0			3.0	2.0	2.0	2.0
26	M07-297007	2.0			2.0	2.0	1.0	1.0
27	M07-297052	2.0			2.0	1.0	1.0	1.0
28	M08-151006	2.0			1.0	1.0	1.0	2.0
29	M08-151080	2.0			1.0	2.0	2.0	1.0
30	M08-151086	1.0			3.0	2.0	2.0	2.0

2013 SCN PRELIMINARY TEST I

Seed Weight (g/100)

		Mason City IA	Newell IA	Dekalb IL	Lamberton MN	Stewart MN	Waseca MN	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	NI
	Strain							
1	MN1410	15.3			18.5	15.9	18.2	16.2
2	IA1022 (SCN)	14.0			18.4	18.3	17.4	15.0
3	Sheyenne (0)	13.1			17.7	16.4	17.7	16.9
4	AR12-127007	13.1			15.5	16.0	16.5	13.6
5	AR12-127008	15.6			17.8	18.5	19.6	18.0
6	AR12-127013	14.8			16.8	16.4	18.5	15.8
7	AR12-127048	16.2			19.1	17.5	21.6	17.7
8	AR12-127053	15.2			19.9	16.7	18.1	17.3
9	AR12-127054	16.1			17.4	15.8	18.4	17.3
10	AR12-127061	13.5			15.2	14.7	18.0	14.8
11	AR12-127066	14.1			18.2	15.9	18.3	14.8
12	AR12-127075	13.7			16.7	16.2	17.8	14.9
13	AR12-127076	11.5			13.9	13.9	15.7	12.4
14	AR12-127080	11.7			15.3	13.5	15.6	13.7
15	AR12-127091	15.9			19.4	18.7	21.8	18.8
16	AR12-127092	15.2			19.2	17.2	20.8	18.1
17	AR12-127102	16.5			19.5	17.4	19.4	17.3
18	AR12-127109	14.7			19.8	17.6	19.0	18.2
19	LD10-682	12.4			14.1	13.1	14.9	12.5
20	LD10-5895a	16.6			17.2	15.3	17.6	15.8
21	LD11-05223a	12.5			17.4	16.1	16.6	15.2
22	LD11-05254a	17.3			18.5	16.1	18.9	17.3
23	LD11-05262a	15.9			18.9	15.0	18.9	16.7
24	M07-294030	14.6			16.7	15.2	17.4	15.3
25	M07-297004	14.7			19.9	16.5	18.4	15.8
26	M07-297007	13.6			16.3	13.8	17.1	15.5
27	M07-297052	12.7			16.6	14.3	15.4	14.4
28	M08-151006	14.8			19.4	15.2	18.5	17.2
29	M08-151080	16.0			17.0	15.8	17.2	16.4
30	M08-151086	14.7			17.3	15.9	16.6	15.3

2013 SCN PRELIMINARY TEST I

Protein (%)

		Mason City IA	Newell IA	Dekalb IL	Lamberton MN	Stewart MN	Waseca MN	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	NI
	Strain							
1	MN1410	37.2			35.0	34.6	34.3	35.3
2	IA1022 (SCN)	33.5			33.7	32.5	33.0	31.2
3	Sheyenne (0)	35.9			34.3	33.6	34.7	34.7
4	AR12-127007	39.0			36.2	34.9	33.9	35.4
5	AR12-127008	35.7			35.0	33.0	33.3	31.9
6	AR12-127013	37.1			34.5	32.9	34.6	34.3
7	AR12-127048	37.2			34.5	33.4	34.4	34.6
8	AR12-127053	35.4			34.7	34.9	35.2	35.2
9	AR12-127054	37.1			34.5	32.6	34.0	33.9
10	AR12-127061	35.2			34.0	32.9	33.5	32.6
11	AR12-127066	37.9			36.0	33.9	34.9	33.8
12	AR12-127075	38.6			36.4	35.2	34.3	35.1
13	AR12-127076	36.9			34.1	32.6	33.2	32.1
14	AR12-127080	39.1			35.2	34.0	34.7	32.4
15	AR12-127091	37.3			36.0	34.3	33.9	36.1
16	AR12-127092	37.3			34.8	34.3	34.7	34.9
17	AR12-127102	34.8			35.2	32.5	33.2	62.2
18	AR12-127109	36.1			34.6	33.2	34.0	33.9
19	LD10-682	37.7			34.8	34.9	34.7	34.5
20	LD10-5895a	37.0			35.0	36.1	34.0	36.2
21	LD11-05223a	36.3			35.9	36.1	34.8	34.9
22	LD11-05254a	36.5			36.3	34.1	34.3	34.8
23	LD11-05262a	35.7			35.2	35.2	34.7	33.6
24	M07-294030	36.2			34.8	34.3	33.4	32.8
25	M07-297004	35.8			36.1	35.3	34.0	36.3
26	M07-297007	38.0			35.8	35.4	35.4	35.8
27	M07-297052	38.8			36.2	34.5	34.2	34.4
28	M08-151006	37.7			35.2	34.3	33.4	35.0
29	M08-151080	38.4			37.7	37.0	35.4	36.5
30	M08-151086	37.4			35.3	35.0	33.5	34.0

2013 SCN PRELIMINARY TEST I

Oil (%)

		Mason City IA	Newell IA	Dekalb IL	Lamberton MN	Stewart MN	Waseca MN	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	NI
	Strain							
1	MN1410	17.6			19.6	19.8	20.0	18.1
2	IA1022 (SCN)	18.7			20.1	19.4	20.0	20.0
3	Sheyenne (0)	18.3			19.4	19.8	19.2	18.3
4	AR12-127007	16.9			18.4	18.1	19.3	18.5
5	AR12-127008	17.6			19.0	19.1	19.4	19.6
6	AR12-127013	16.4			19.0	18.9	18.4	18.5
7	AR12-127048	16.6			19.9	19.1	18.8	18.5
8	AR12-127053	16.6			18.6	18.7	18.8	18.2
9	AR12-127054	17.5			18.9	19.4	18.9	19.5
10	AR12-127061	17.4			19.2	18.6	18.9	19.7
11	AR12-127066	16.7			19.1	18.6	18.8	18.4
12	AR12-127075	16.2			18.2	17.9	18.9	18.5
13	AR12-127076	16.6			18.8	19.1	19.4	19.5
14	AR12-127080	14.7			18.8	18.1	18.7	19.4
15	AR12-127091	16.2			17.9	18.0	18.8	18.4
16	AR12-127092	16.7			18.7	17.9	18.8	18.0
17	AR12-127102	16.9			18.1	18.8	18.6	31.5
18	AR12-127109	16.8			19.0	18.7	19.0	19.0
19	LD10-682	17.7			20.1	18.9	19.3	20.0
20	LD10-5895a	17.2			18.9	17.3	19.1	17.6
21	LD11-05223a	17.1			18.3	18.0	18.2	18.1
22	LD11-05254a	17.2			18.4	18.3	19.0	18.2
23	LD11-05262a	17.6			19.0	18.3	18.7	18.8
24	M07-294030	17.3			19.0	19.0	19.4	19.9
25	M07-297004	18.8			19.3	19.4	20.0	19.1
26	M07-297007	16.8			18.8	17.8	18.9	18.5
27	M07-297052	16.5			18.8	18.8	19.1	19.4
28	M08-151006	16.3			18.5	18.1	18.8	18.6
29	M08-151080	17.0			18.8	17.0	18.3	18.2
30	M08-151086	17.4			19.0	18.2	19.4	19.0

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2013 SCN UNIFORM TEST II

	Strain	Descriptive code	Parentage
1	IA2102	WGy	A04-545045 x AgriPro 98180-A01-06131
2	IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024
3	IA3024	PGibl	A97-553017 x Pioneer YB33A99
4	LD02- 4485	PGbf	M90-184111 x IA3010
5	AR10-105002	P+WGbf+ibl	SS02-11958 x A00-882130
6	AR10-205011	P+WTbr	SS02-12014 x AR02-101001
7	AR11-113050	PTbl	SS02-12014 x AR05-150119
8	LD08-12435a	PGbf	LD02-4485(2) x (Ina x PI 200538)
9	LD08-12441a	PGbf	LD02-4485(2) x (Ina x PI 200538)
10	LD09-13026a	PGgr	LD05-3230 x (LD02-4485(2) x (Ina x PI 200538))
11	LD09-15195a	PGbf	LD02-4485(6) x (Ina x PI 200538)
12	LD09-30220	PTbl	LD05-3230 x LDX07-178a-1-7
13	U09-310141	PGibl	U01-390489 x U03-200238

	Strain	Previous testing	Gen. Comp	SCN source	Traits
1	IA2102	1	F4	PI88788	
2	IA1022 (SCN)	5	F5	PI88788	
3	IA3024	6	F5	None	1% linolenic
4	LD02- 4485	8	F5	PI88788	
5	AR10-105002	12 SCN U I	F4	PI438489B	
6	AR10-205011	1	F4	PI438489B	
7	AR11-113050	12 SCN P II	F5	PI438489B / PI88788	
8	LD08-12435a	1	F3	PI88788	Rag2
9	LD08-12441a	1	F3	PI88788	Rag2
10	LD09-13026a	12 SCN P II	F5	PI88788	Rag2
11	LD09-15195a	12 SCN P II	F5	PI88788	Rag2
12	LD09-30220	12 SCN P II	F5	PI88788	Rag1
13	U09-310141	1	F5	PI88788	SCN,Rps1K

2013 SCN UNIFORM TEST II

		IL SCN screen				ISU IDC	ISU IDC	MN IDC
		HG Type 0		HG Type 2.5.7		Bruner	N. Woodruff	Davners
	Strain	FI	rating	score	rating	score	score	score
1	IA2102	4	HR	63	NR	2.8	2.5	3.5
2	IA1022 (SCN)	4	HR	59	LR	1.0	2.8	3.3
3	IA3024	71	NR	55	LR	2.8	2.3	3.5
4	LD02- 4485	3	HR	54	LR	2.5	3.0	3.3
5	AR10-105002	2	HR	50	LR	1.8	2.8	3.1
6	AR10-205011	5	HR	59	LR	3.5	3.0	3.5
7	AR11-113050	1	HR	57	LR	2.8	3.5	3.8
8	LD08-12435a	27	**	50	LR	1.0	3.0	4.0
9	LD08-12441a	4	HR	43	LR	3.3	4.0	3.3
10	LD09-13026a	4	HR	50	LR	1.5	2.5	3.1
11	LD09-15195a	4	HR	60	NR	2.5	2.0	3.0
12	LD09-30220	2	HR	29	MR	1.0	2.8	3.8
13	U09-310141	2	HR	63	NR	.	3.5	4.0
					A11 (res)	1.4	1.1	
					Dwight (sus)	2.6	2.8	
					LSD	1.1	1.0	

** rep data too variable to rate

2013 SCN UNIFORM TEST II

Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	12		2		11	13	11	12	12	10	10
1	IA2102	64.3	4	54.2	10	9/24	2.1	33	1.5	16.5	34.0	18.6
2	IA1022 (SCN)	60.1	9	49.5	12	-3	1.7	31	1.5	16.7	32.9	19.6
3	IA3024	56.7	11	60.0	7	6	1.5	34	1.6	17.0	33.0	18.6
4	LD02- 4485	65.1	3	60.3	6	1	1.8	32	1.4	15.6	32.9	18.7
5	AR10-105002	55.0	13	53.3	11	0	1.3	30	1.5	16.4	34.6	19.2
6	AR10-205011	61.7	7	56.6	9	2	1.4	30	1.5	16.3	34.3	18.7
7	AR11-113050	65.6	1	60.5	5	1	1.3	31	1.6	18.9	35.6	19.0
8	LD08-12435a	65.5	2	62.5	3	4	1.7	32	1.4	17.0	33.0	19.3
9	LD08-12441a	63.2	6	64.0	1	3	1.8	32	1.5	16.3	32.3	19.6
10	LD09-13026a	60.9	8	61.3	4	-2	1.6	32	1.3	15.9	34.3	18.5
11	LD09-15195a	63.4	5	63.7	2	5	1.7	36	1.5	15.2	31.6	19.4
12	LD09-30220	58.6	10	58.7	8	3	2.1	34	1.6	16.7	32.9	18.3
13	U09-310141	55.6	12	41.7	13	5	1.6	30	1.8	17.0	32.7	18.9

2 Year Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	23		6		22	25	22	23	25	21	21
1	IA2102	63.2	1	51.3	6	9/22	2.1	36	1.7	16.2	34.2	18.7
2	IA1022 (SCN)	59.0	6	46.0	8	-5	1.7	34	1.5	16.2	32.7	19.9
3	IA3024	53.9	8	53.1	5	6	1.5	36	1.7	16.7	33.2	18.7
4	LD02- 4485	62.0	3	55.7	3	2	1.8	35	1.5	15.5	32.6	19.1
6	AR10-205011	61.8	4	54.9	4	2	1.4	32	1.5	16.2	34.4	18.9
8	LD08-12435a	61.7	5	59.6	1	4	1.7	34	1.4	16.8	32.8	19.4
9	LD08-12441a	62.4	2	58.0	2	2	1.7	34	1.6	16.2	32.4	19.7
13	U09-310141	57.1	7	47.0	7	6	1.6	33	1.7	16.8	33.1	18.9

2013 SCN UNIFORM TEST II

Yield (bu/a)

		Ames IA	Urbana IA	Pontiac IL	West Lafayette IN	Decatur MI	Lamber-ton MN	Stewart MN	Waseca MN
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	2.5.7	2.5.7
	Strain								
1	IA2102	64.3	65.3	67.3	71.1	61.6	59.4	57.1	66.7
2	IA1022 (SCN)	61.1	61.2	58.8	66.9	51.9	57.4	59.1	69.6
3	IA3024	58.0	62.6	70.4	66.3	43.3	58.1	40.5	70.1
4	LD02- 4485	61.3	67.2	67.1	69.1	62.1	56.2	51.1	70.2
5	AR10-105002	57.7	60.0	56.0	55.5	50.3	43.3	42.2	63.1
6	AR10-205011	61.0	66.8	67.4	63.7	50.2	50.8	52.3	64.9
7	AR11-113050	56.7	59.3	63.7	65.6	66.2	53.8	57.9	71.3
8	LD08-12435a	61.3	65.2	74.1	71.6	63.9	57.3	45.4	72.3
9	LD08-12441a	66.2	64.4	74.7	68.6	53.6	56.1	55.2	67.3
10	LD09-13026a	52.3	63.8	62.1	63.5	62.9	50.3	50.3	66.1
11	LD09-15195a	67.0	63.9	56.9	69.8	59.5	54.3	50.6	68.8
12	LD09-30220	63.7	62.1	64.3	68.4	46.4	49.8	48.1	64.2
13	U09-310141	59.5	59.5	59.0	40.6	40.0	42.4	39.4	55.9
	Average	60.8	63.2	64.7	64.7	54.7	53.0	49.9	66.9
	LSD(.05)	12.0	4.8	14.1	7.0	8.8	7.2	8.2	5.6
	C.V. %	9.1	3.5	10.0	6.4	6.0	8.2	7.5	5.1
	Replications	2	2	2	3	2	3	3	3
	Row width (in.)	30	30	30	30	30	30	30	30

2013 SCN UNIFORM TEST II

Yield (bu/a)

		Herman NE	Peru NE	Chatham ON	Harrow ON	Urabna IL	Hoytville OH
	SCN HG Type	2.5.7	I	2.7	2.5.7	NI	NI
	Strain						
1	IA2102	81.0	62.7	63.4	52.1	69.1	39.3
2	IA1022 (SCN)	89.0	33.9	55.2	57.0	57.8	41.2
3	IA3024	77.6	42.3	34.5	56.4	63.9	56.1
4	LD02- 4485	85.7	78.1	60.9	52.5	72.0	48.7
5	AR10-105002	88.1	50.5	41.5	52.0	57.8	48.7
6	AR10-205011	99.4	65.8	52.1	46.1	65.5	47.6
7	AR11-113050	98.9	79.7	63.8	49.8	67.3	53.7
8	LD08-12435a	95.6	65.9	61.0	51.8	74.4	50.7
9	LD08-12441a	76.9	71.0	57.6	46.7	76.5	51.5
10	LD09-13026a	88.2	65.8	51.4	53.8	67.4	55.3
11	LD09-15195a	87.8	77.4	56.3	48.8	70.7	56.6
12	LD09-30220	83.9	60.5	59.4	32.7	64.1	53.3
13	U09-310141	95.9	69.8	*	49.1	48.7	34.6
	Average	88.3	63.3	54.8	49.9	65.8	49.0
	LSD(.05)	14.3	16.7	13.1	10.5	7.5	8.1
	C.V. %	7.1	11.5	11.7	10.4	5.2	9.8
	Replications	2	2	3	3	2	3
	Row width (in.)	30	30	24	24	30	7.5

* Entry dropped due to poor emergence.

2013 SCN UNIFORM TEST II

Yield (rank)

		Ames IA	Urbana IA	Pontiac IL	West Lafayette IN	Decatur MI	Lamber-ton MN	Stewart MN	Waseca MN
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	2.5.7	2.5.7
	Strain								
1	IA2102	3	3	5	2	5	1	3	8
2	IA1022 (SCN)	7	10	11	7	8	3	1	5
3	IA3024	10	8	3	8	12	2	12	4
4	LD02- 4485	5	1	6	4	4	5	6	3
5	AR10-105002	11	11	13	12	9	12	11	12
6	AR10-205011	8	2	4	10	10	9	5	10
7	AR11-113050	12	13	8	9	1	8	2	2
8	LD08-12435a	5	4	2	1	2	4	10	1
9	LD08-12441a	2	5	1	5	7	6	4	7
10	LD09-13026a	13	7	9	11	3	10	8	9
11	LD09-15195a	1	6	12	3	6	7	7	6
12	LD09-30220	4	9	7	6	11	11	9	11
13	U09-310141	9	12	10	13	13	13	13	13

2013 SCN UNIFORM TEST II

Yield (rank)

		Herman NE	Peru NE	Chatham ON	Harrow ON	Urabna IL	Hoytville OH
	SCN HG Type	2.5.7	I	2.7	2.5.7	NI	NI
	Strain						
1	IA2102	11	9	2	5	5	11
2	IA1022 (SCN)	5	13	8	1	12	10
3	IA3024	12	12	12	2	10	2
4	LD02- 4485	9	2	4	4	3	8
5	AR10-105002	7	11	11	6	11	8
6	AR10-205011	1	7	9	12	8	9
7	AR11-113050	2	1	1	8	7	4
8	LD08-12435a	4	6	3	7	2	7
9	LD08-12441a	13	4	6	11	1	6
10	LD09-13026a	6	8	10	3	6	3
11	LD09-15195a	8	3	7	10	4	1
12	LD09-30220	10	10	5	13	9	5
13	U09-310141	3	5		9	13	12

2013 SCN UNIFORM TEST II

Maturity

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Lamber-ton	Stewart	Waseca
		IA	IA	IL	IN	MI	MN	MN	MN
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	2.5.7	2.5.7
	Strain								
1	IA2102	9/28		9/13	9/19		10/5	10/8	10/6
2	IA1022 (SCN)	-3		-1	-2		-6	-2	-5
3	IA3024	7		10	4		2	2	4
4	LD02- 4485	-1		3	-1		-3	0	5
5	AR10-105002	-3		4	-2		0	2	-1
6	AR10-205011	0		1	1		-1	2	0
7	AR11-113050	0		1	1		-6	2	-1
8	LD08-12435a	2		5	1		-3	2	7
9	LD08-12441a	3		2	1		-5	2	6
10	LD09-13026a	-3		0	-5		-7	2	-2
11	LD09-15195a	6		7	3		0	2	8
12	LD09-30220	6		5	1		-2	2	4
13	U09-310141	6		8	7		-4	2	6
	Planted	6/11	5/24	5/14	5/23	5/1	5/17	5/14	5/15

2013 SCN UNIFORM TEST II

Maturity

		Herman NE	Peru NE	Chatham ON	Harrow ON	Urabna IL	Hoytville OH
	SCN HG Type	2.5.7	I	2.7	2.5.7	NI	NI
	Strain						
1	IA2102	9/25		10/1	9/21	9/9	9/13
2	IA1022 (SCN)	-4		-6	-1	-5	-2
3	IA3024	6		1	7	9	11
4	LD02- 4485	-1		1	4	1	6
5	AR10-105002	-2		1	0	2	1
6	AR10-205011	1		3	0	2	11
7	AR11-113050	0		2	0	3	4
8	LD08-12435a	0		3	7	6	11
9	LD08-12441a	-1		3	4	5	8
10	LD09-13026a	-4		1	0	-2	-1
11	LD09-15195a	2		4	8	8	12
12	LD09-30220	2		4	1	4	4
13	U09-310141	2			8	5	10
	Planted	5/23	5/24	5/27	6/7	5/15	5/17

2013 SCN UNIFORM TEST II

Lodging (score)

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Lamber-ton	Stewart	Waseca
		IA	IA	IL	IN	MI	MN	MN	MN
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	2.5.7	2.5.7
	Strain								
1	IA2102	2.8	2.8	2.0	1.3	2.5	1.0	2.0	2.7
2	IA1022 (SCN)	2.3	2.0	1.3	1.2	2.0	1.0	2.0	2.0
3	IA3024	2.0	2.0	1.5	1.0	1.5	1.0	2.0	2.0
4	LD02- 4485	2.3	1.8	1.5	1.2	2.5	1.3	2.0	2.3
5	AR10-105002	2.0	1.5	1.0	1.0	1.0	1.0	2.0	2.0
6	AR10-205011	2.0	1.5	1.3	1.0	1.5	1.0	2.0	2.0
7	AR11-113050	2.0	1.3	1.3	1.0	1.0	1.0	2.0	2.0
8	LD08-12435a	2.3	2.3	1.5	1.0	1.5	1.0	2.0	2.0
9	LD08-12441a	2.5	1.8	1.5	1.2	2.0	1.0	2.0	2.0
10	LD09-13026a	2.0	1.8	1.5	1.0	1.5	1.0	2.0	2.0
11	LD09-15195a	2.5	2.0	1.5	1.2	2.0	1.7	2.0	2.0
12	LD09-30220	2.3	2.5	2.0	1.2	3.5	1.3	2.0	2.0
13	U09-310141	2.5	2.0	1.3	1.0	1.5	1.0	2.0	2.0

Height (inches)

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Lamber-ton	Stewart	Waseca
		IA	IA	IL	IN	MI	MN	MN	MN
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	2.5.7	2.5.7
	Strain								
1	IA2102	34	36	31	37	35		27	31
2	IA1022 (SCN)	31	34	29	36	30		30	30
3	IA3024	35	38	33	36	34		31	33
4	LD02- 4485	32	36	32	35	35		24	32
5	AR10-105002	31	32	31	32	30		31	33
6	AR10-205011	31	31	29	31	31		28	31
7	AR11-113050	28	31	30	34	32		34	31
8	LD08-12435a	32	34	32	33	35		26	33
9	LD08-12441a	35	34	34	32	33		29	31
10	LD09-13026a	33	35	33	32	34		24	31
11	LD09-15195a	40	40	35	39	37		33	33
12	LD09-30220	34	35	32	36	36		32	33
13	U09-310141	31	27	33	31	30		23	27

2013 SCN UNIFORM TEST II

Lodging (score)

		Herman	Peru	Chatham	Harrow	Urabna	Hoytville
		NE	NE	ON	ON	IL	OH
	SCN HG Type	2.5.7	I	2.7	2.5.7	NI	NI
	Strain						
1	IA2102	3.5		1.0	3.0	2.3	1.0
2	IA1022 (SCN)	2.5		1.0	1.5	1.8	1.0
3	IA3024	1.5		1.0	1.7	1.5	1.0
4	LD02- 4485	2.5		1.0	2.0	1.5	1.0
5	AR10-105002	1.0		1.0	1.0	1.0	1.0
6	AR10-205011	1.0		1.0	1.7	1.5	1.0
7	AR11-113050	1.0		1.0	1.0	1.0	1.0
8	LD08-12435a	2.5		1.0	2.3	1.5	1.0
9	LD08-12441a	3.0		1.0	2.3	1.5	1.0
10	LD09-13026a	2.5		1.0	1.3	1.8	1.0
11	LD09-15195a	2.0		1.0	1.8	2.0	1.0
12	LD09-30220	3.0		1.0	4.0	1.5	1.0
13	U09-310141	2.5			1.2	1.0	1.0

Height (inches)

		Herman	Peru	Chatham	Harrow	Urabna	Hoytville
		NE	NE	ON	ON	IL	OH
	SCN HG Type	2.5.7	I	2.7	2.5.7	NI	NI
	Strain						
1	IA2102			29	39	34	27
2	IA1022 (SCN)			27	34	34	28
3	IA3024			26	42	36	28
4	LD02- 4485			28	39	34	25
5	AR10-105002			23	35	31	26
6	AR10-205011			23	35	32	25
7	AR11-113050			27	35	35	29
8	LD08-12435a			28	39	34	25
9	LD08-12441a			26	38	35	26
10	LD09-13026a			24	38	36	31
11	LD09-15195a			28	44	40	29
12	LD09-30220			29	39	37	28
13	U09-310141				37	36	22

2013 SCN UNIFORM TEST II

Seed Quality (score)

		Ames IA	Urbana IA	Pontiac IL	West Lafayette IN	Decatur MI	Lamber-ton MN	Stewart MN	Waseca MN
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	2.5.7	2.5.7
	Strain								
1	IA2102	2.0		1.0	1.5		2.0	1.0	2.0
2	IA1022 (SCN)	2.0		1.0	1.0		3.0	1.0	1.0
3	IA3024	2.0		2.0	1.0		1.0	3.0	1.0
4	LD02- 4485	2.0		1.0	1.0		1.0	2.0	1.0
5	AR10-105002	2.0		2.0	1.5		1.0	2.0	2.0
6	AR10-205011	2.0		1.0	1.0		2.0	4.0	1.0
7	AR11-113050	2.0		1.0	1.5		1.0	2.0	3.0
8	LD08-12435a	2.0		1.0	1.0		2.0	1.0	2.0
9	LD08-12441a	2.0		1.0	1.0		1.0	2.0	3.0
10	LD09-13026a	2.0		2.0	1.0		1.0	1.0	1.0
11	LD09-15195a	2.0		1.0	1.0		1.0	3.0	2.0
12	LD09-30220	2.0		1.0	1.0		1.0	3.0	3.0
13	U09-310141	2.0		2.0	2.0		2.0	3.0	2.0

Seed Weight (g/100)

		Ames IA	Urbana IA	Pontiac IL	West Lafayette IN	Decatur MI	Lamber-ton MN	Stewart MN	Waseca MN
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	2.5.7	2.5.7
	Strain								
1	IA2102	16.0		17.0	15.1		15.7	15.7	15.7
2	IA1022 (SCN)	16.2		17.5	15.8		18.8	16.2	16.0
3	IA3024	16.3		17.8	16.0		17.0	15.4	16.3
4	LD02- 4485	15.1		15.1	14.9		15.8	15.3	14.0
5	AR10-105002	15.0		16.4	15.1		15.5	14.3	16.1
6	AR10-205011	15.5		14.6	15.6		16.9	15.9	15.6
7	AR11-113050	18.9		17.8	17.5		18.1	17.7	18.4
8	LD08-12435a	16.8		16.2	16.0		15.9	15.4	16.1
9	LD08-12441a	15.2		16.7	15.4		15.1	14.9	14.7
10	LD09-13026a	15.2		16.6	13.9		15.2	15.0	15.0
11	LD09-15195a	15.4		15.1	14.1		13.7	14.3	14.0
12	LD09-30220	16.7		15.4	16.5		16.7	15.8	16.9
13	U09-310141	15.8		17.5	16.6		17.8	16.1	17.0

2013 SCN UNIFORM TEST II

Seed Quality (score)

		Herman	Peru	Chatham	Harrow	Urabna	Hoytville
		NE	NE	ON	ON	IL	OH
	SCN HG Type	2.5.7	I	2.7	2.5.7	NI	NI
	Strain						
1	IA2102	2.0	1.0	1.0	2.0	2.0	1.0
2	IA1022 (SCN)	2.0	2.0	1.0	1.0	1.0	2.0
3	IA3024	2.0	2.0	1.0	1.0	2.0	1.0
4	LD02- 4485	2.0	1.0	1.0	1.7	2.0	1.0
5	AR10-105002	1.0	1.0	1.0	1.0	2.0	1.0
6	AR10-205011	2.0	1.0	1.0	1.0	1.0	1.0
7	AR11-113050	2.0	1.0	1.0	2.0	2.0	1.0
8	LD08-12435a	2.0	1.0	1.0	1.0	2.0	1.0
9	LD08-12441a	2.0	1.0	1.0	1.3	2.0	1.0
10	LD09-13026a	2.0	1.0	1.0	1.0	2.0	1.0
11	LD09-15195a	2.0	1.0	1.0	1.0	2.0	1.0
12	LD09-30220	1.0	1.0	1.0	1.0	2.0	2.0
13	U09-310141	1.0	1.0		1.0	2.0	2.0

Seed Weight (g/100)

		Herman	Peru	Chatham	Harrow	Urabna	Hoytville
		NE	NE	ON	ON	IL	OH
	SCN HG Type	2.5.7	I	2.7	2.5.7	NI	NI
	Strain						
1	IA2102	21.6	16.7	17.0	18.0	16.8	13.1
2	IA1022 (SCN)	22.8	13.8	16.4	17.6	16.1	13.0
3	IA3024	22.5	16.1	14.6	21.1	16.8	14.2
4	LD02- 4485	19.8	16.0	16.0	17.3	15.8	12.6
5	AR10-105002	22.3	16.9	16.3	18.7	15.8	13.9
6	AR10-205011	21.2	15.6	17.3	18.9	15.1	13.8
7	AR11-113050	24.1	18.9	20.1	21.3	18.9	15.2
8	LD08-12435a	22.6	16.9	17.0	20.8	16.6	13.9
9	LD08-12441a	20.2	17.8	16.1	18.6	17.4	13.8
10	LD09-13026a	20.2	15.3	15.3	18.9	17.3	12.8
11	LD09-15195a	20.8	15.5	15.3	16.7	14.3	13.4
12	LD09-30220	22.6	15.2	17.5	17.1	16.4	14.0
13	U09-310141	21.2	16.4		18.7	15.4	14.3

2013 SCN UNIFORM TEST II

Protein (%)

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Lamber-ton	Stewart	Waseca
		IA	IA	IL	IN	MI	MN	MN	MN
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	2.5.7	2.5.7
	Strain								
1	IA2102	34.2		32.6	32.6		33.7	33.4	34.3
2	IA1022 (SCN)	33.2		31.8	34.2		33.0	32.3	32.5
3	IA3024	32.4		33.2	34.2		33.0	31.3	33.0
4	LD02- 4485	32.8		31.9	32.4		33.0	35.4	32.0
5	AR10-105002	34.8		35.9	35.5		34.5	30.5	33.8
6	AR10-205011	34.5		34.6	33.8		33.9	32.4	34.1
7	AR11-113050	34.6		35.3	35.8		34.6	35.6	34.5
8	LD08-12435a	32.3		33.1	33.2		32.4	32.8	33.4
9	LD08-12441a	31.9		32.4	31.4		32.2	32.0	31.5
10	LD09-13026a	34.3		35.4	33.5		34.1	33.2	32.7
11	LD09-15195a	32.4		31.6	31.2		32.2	29.5	31.2
12	LD09-30220	32.4		33.0	32.9		32.5	31.2	31.9
13	U09-310141	32.0		32.6	32.6		32.3	33.6	32.4

Oil (%)

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Lamber-ton	Stewart	Waseca
		IA	IA	IL	IN	MI	MN	MN	MN
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	2.5.7	2.5.7
	Strain								
1	IA2102	18.5		18.6	19.7		18.5	18.6	18.9
2	IA1022 (SCN)	19.3		19.6	18.4		20.3	19.2	19.6
3	IA3024	18.0		18.7	18.7		19.7	17.1	18.9
4	LD02- 4485	18.6		18.9	19.2		19.6	16.3	19.2
5	AR10-105002	19.5		19.6	20.1		18.9	17.8	19.1
6	AR10-205011	19.0		18.2	19.4		18.6	18.4	19.1
7	AR11-113050	19.2		19.0	19.7		19.5	18.3	19.0
8	LD08-12435a	19.2		18.9	19.3		19.5	20.1	18.8
9	LD08-12441a	19.6		19.2	19.7		20.1	19.5	19.9
10	LD09-13026a	18.9		18.2	19.5		18.7	17.7	18.5
11	LD09-15195a	17.8		19.4	19.6		19.7	19.0	20.4
12	LD09-30220	18.1		18.1	18.6		18.5	17.9	19.1
13	U09-310141	19.2		18.7	19.4		18.2	18.3	19.8

2013 SCN UNIFORM TEST II

Protein (%)

		Herman NE	Peru NE	Chatham ON	Harrow ON	Urabna IL	Hoytville OH
	SCN HG Type	2.5.7	I	2.7	2.5.7	NI	NI
	Strain						
1	IA2102			35.4	36.3	33.6	34.1
2	IA1022 (SCN)			34.3	34.3	31.3	32.2
3	IA3024			33.8	35.9	31.2	32.5
4	LD02- 4485			33.6	34.7	32.0	31.4
5	AR10-105002			35.9	36.4	35.0	34.1
6	AR10-205011			35.1	37.4	34.3	32.7
7	AR11-113050			38.0	37.6	34.6	35.5
8	LD08-12435a			33.9	35.4	31.3	31.7
9	LD08-12441a			33.0	35.6	32.1	31.1
10	LD09-13026a			35.9	36.6	34.2	33.6
11	LD09-15195a			32.7	33.6	30.8	30.4
12	LD09-30220			33.0	35.7	33.2	32.7
13	U09-310141				34.2	32.5	32.2

Oil (%)

		Herman NE	Peru NE	Chatham ON	Harrow ON	Urabna IL	Hoytville OH
	SCN HG Type	2.5.7	I	2.7	2.5.7	NI	NI
	Strain						
1	IA2102			18.5	17.4	19.2	18.4
2	IA1022 (SCN)			20.3	19.5	20.0	19.7
3	IA3024			19.0	17.7	19.9	18.2
4	LD02- 4485			19.4	18.4	18.9	19.0
5	AR10-105002			19.0	18.5	20.4	19.3
6	AR10-205011			19.2	17.7	18.8	18.9
7	AR11-113050			18.4	18.0	20.3	18.6
8	LD08-12435a			19.3	18.4	19.5	19.7
9	LD08-12441a			20.1	18.4	19.3	20.2
10	LD09-13026a			18.7	17.9	18.2	18.4
11	LD09-15195a			19.8	18.9	19.4	19.7
12	LD09-30220			19.2	17.2	17.8	18.6
13	U09-310141				18.6	19.2	19.1

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	Strain	Descriptive code	Parentage
1	IA2102	WGy	A04-545045 x AgriPro 98180-A01-06131
2	IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024
3	IA3024	PLtibl	A97-553017 x Pioneer YB33A99
4	LD02- 4485	PGbf	M90-184111 x IA3010
5	AR12-127010	PGibl	AR03-161009 x AR05-150139
6	AR12-127043	PT+Gbl/ibl	AR07-175036 x Syngenta 04KL108370
7	AR12-127084	PGibl/y	AR03-161009 x AR05-150139
8	AR12-227007	PGibl/bf	AR07-175036 x Syngenta 04KL108370
9	AR12-227011	PGibl	AR05-250101 x Golden Harvest H-2632
10	AR12-227024	PLtbl	AR03-161009 x AR06-165095
11	AR12-227035	PLtbl	AR07-176119 x Syngenta 03JR101916
12	AR12-227037	PLt+Gbl/ibl	AR07-276077 x Syngenta 03JR101916
13	AR12-227055	PLtbl	AR06-264007 x Golden Harvest X 33686
14	AR12-227065	PTbl	AR06-264007 x Golden Harvest H 2632
15	AR12-227066	PTbl	AR06-264007 x Golden Harvest H 2632
16	AR12-327003	PTbl	AR05-250103 x Golden Harvest X 33686
17	AR12-327048	PLtbl	AR05-250103 x Golden Harvest H-2632
18	E05181-T	PGy	Loda x IA2053
19	E09222LL	PT+Gy	IA2072 x LD01-7323
20	E11095	PGibl	LD01-5907 x (GD0518 x LD01-7323)
21	E11128T	PGy	E05276-T x LD01-7323
22	LD10-382	PLtbl	Dairyland 75006 x U03-200317
23	LD10-1249	WGy	Dairyland 75159 x A05-212037
24	LD10-2715	PGibl	LD03-10504 x LD00-2817P
25	LD10-5652a	WLtbl	LD04-8782(2) x [LD03-6566 x ((LD02-4485 x (Ina x PI 200538))]
26	LD10-5685a	WGy	Dairyland 99630 x LD05-16638
27	LD10-5880a	PGy	M99-286047 x LD05-16638
28	LD10-8674	PGibl	LD04-8782 x LD02-4485
29	LD10-8707	WLtbl/br	LD04-8782 x LD02-4485
30	LD10-10198	PGgr	LD05-3230 x LD00-3309

	Strain	Gen comp	SCN source	Traits
1	IA2102	F4	PI88788	
2	IA1022 (SCN)	F5	PI88788	
3	IA3024	F5	None	1% linolenic
4	LD02- 4485	F5	PI88788	
5	AR12-127010	F4	PI507354 / PI88788	
6	AR12-127043	F4	PI90763	
7	AR12-127084	F4	PI507354 / PI88788	
8	AR12-227007	F4	PI90763	
9	AR12-227011	F4	PI88788	SDS, IDC
10	AR12-227024	F4	PI507354 / PI88788	
11	AR12-227035	F4	PI88788	
12	AR12-227037	F4	PI88788	
13	AR12-227055	F4	PI88788	SDS, IDC
14	AR12-227065	F4	PI88788	SDS, IDC
15	AR12-227066	F4	PI88788	SDS, IDC
16	AR12-327003	F4	PI88788	SDS, IDC
17	AR12-327048	F4	PI88788	SDS, IDC
18	E05181-T	F5	PI88788	
19	E09222LL	F5	PI88788	
20	E11095	F5	PI88788 / PI437654	
21	E11128T	F5	PI88788	
22	LD10-382	F5	PI88788	
23	LD10-1249	F5	PI88788	
24	LD10-2715	F5	PI88788 / PI437654	
25	LD10-5652a	F5	PI88788	Rag2
26	LD10-5685a	F5	PI88788	Rag1
27	LD10-5880a	F5	PI88788	Rag1
28	LD10-8674	F5	PI88788	
29	LD10-8707	F5	PI88788	
30	LD10-10198	F5	PI88788	

2013 SCN PRELIMINARY TEST II

	IL SCN screen				ISU IDC	ISU IDC
	HG Type 0		HG Type 2.5.7		Bruner	N. Woodruff
Strain	FI	rating	score	rating	score	score
1 IA2102	4	HR	63	NR	2.8	2.5
2 IA1022 (SCN)	4	HR	59	LR	1.0	2.8
3 IA3024	71	NR	55	LR	2.8	2.3
4 LD02- 4485	3	HR	54	LR	2.5	3.0
5 AR12-127010	2	HR	61	NR	2.0	3.5
6 AR12-127043	9	HR	63	NR	3.5	3.3
7 AR12-127084	4	HR	56	LR	3.8	3.5
8 AR12-227007	4	HR	64	NR	2.3	.
9 AR12-227011	10	R	73	NR	2.3	3.5
10 AR12-227024	3	HR	49	LR	4.0	3.8
11 AR12-227035	6	HR	71	NR	2.0	2.5
12 AR12-227037	4	HR	63	NR	2.0	3.0
13 AR12-227055	3	HR	72	NR	2.5	2.8
14 AR12-227065	6	HR	71	NR	2.8	3.0
15 AR12-227066	3	HR	67	NR	2.0	3.3
16 AR12-327003	6	HR	60	NR	2.5	3.5
17 AR12-327048	8	HR	68	NR	2.3	.
18 E05181-T	33	**	67	NR	.	3.3
19 E09222LL	59	LR	58	LR	3.5	3.5
20 E11095	1	HR	6	HR	3.3	3.3
21 E11128T	4	HR	64	NR	3.3	2.3
22 LD10-382	69	NR	59	LR	1.3	3.3
23 LD10-1249	77	NR	63	NR	2.0	1.5
24 LD10-2715	2	HR	51	LR	1.5	3.8
25 LD10-5652a	5	HR	54	LR	4.0	3.3
26 LD10-5685a	2	HR	48	LR	1.5	2.8
27 LD10-5880a	1	HR	50	LR	1.5	3.0
28 LD10-8674	3	HR	57	LR	2.5	3.0
29 LD10-8707	2	HR	61	NR	2.5	.
30 LD10-10198	3	HR	63	NR	2.5	2.8
				A11 (res)	1.4	1.1
				Dwight (sus)	2.6	2.8
				LSD	1.1	1.0

** rep data too variable to rate

2013 SCN PRELIMINARY TEST II

Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Location	7		1		5	7	6	6	6	4	4
1	IA2102	67.7	2	69.8	7	9/19	2.4	35	1.3	16.9	34.2	18.4
2	IA1022 (SCN)	56.4	29	62.4	25	-5	1.9	32	1.5	16.6	32.6	20.0
3	IA3024	60.8	22	67.9	13	6	1.6	35	1.5	16.9	32.8	19.0
4	LD02- 4485	67.4	3	75.2	1	1	1.9	34	1.3	15.4	32.3	18.7
5	AR12-127010	62.5	18	64.0	23	0	1.5	36	1.9	18.3	35.7	18.1
6	AR12-127043	57.1	28	58.6	29	-1	2.8	36	2.0	18.4	35.6	18.4
7	AR12-127084	65.3	7	70.5	5	1	2.0	38	1.4	16.1	33.8	18.1
8	AR12-227007	62.4	19	57.3	30	-3	2.6	34	1.3	18.6	35.6	18.7
9	AR12-227011	61.0	21	69.2	8	0	2.3	35	1.5	13.9	32.9	19.6
10	AR12-227024	63.6	14	62.4	25	5	2.0	39	1.8	16.5	34.9	18.0
11	AR12-227035	64.8	9	74.2	4	1	1.6	33	1.2	15.3	34.1	19.2
12	AR12-227037	66.3	5	68.4	12	-1	2.3	33	1.2	17.0	33.8	18.9
13	AR12-227055	62.8	16	74.9	2	1	1.4	35	1.3	15.9	33.7	19.2
14	AR12-227065	62.9	15	67.4	16	-1	1.8	37	1.5	16.4	35.8	18.9
15	AR12-227066	60.3	23	68.7	11	-1	2.0	36	1.3	17.4	34.4	18.1
16	AR12-327003	59.4	25	66.3	18	1	2.7	34	1.2	14.2	33.4	18.9
17	AR12-327048	57.3	27	66.1	20	2	1.8	38	1.3	15.0	35.1	19.0
18	E05181-T	63.8	13	64.0	23	-3	1.3	32	1.3	22.2	35.1	19.1
19	E09222LL	62.6	17	65.7	21	-1	1.7	30	1.3	15.2	34.6	18.1
20	E11095	63.9	11	66.3	18	0	1.5	30	2.2	16.4	32.5	19.7
21	E11128T	64.6	10	64.9	22	-1	2.0	34	1.6	21.7	37.9	17.3
22	LD10-382	60.2	24	67.0	17	-1	1.3	37	1.2	15.5	34.3	19.5
23	LD10-1249	59.4	25	67.9	13	-1	1.5	34	1.4	18.4	33.2	19.7
24	LD10-2715	66.1	6	70.4	6	-1	1.6	33	1.3	14.7	33.5	19.3
25	LD10-5652a	62.1	20	68.8	10	4	2.0	33	1.5	14.3	33.7	18.8
26	LD10-5685a	63.9	11	59.6	28	-2	2.3	35	1.4	16.0	34.8	19.1
27	LD10-5880a	56.3	30	60.1	27	-2	1.5	32	1.3	17.0	34.9	18.9
28	LD10-8674	66.8	4	67.7	15	-2	1.5	31	1.3	13.2	31.8	19.1
29	LD10-8707	65.0	8	68.9	9	2	2.4	35	1.4	15.2	32.3	18.7
30	LD10-10198	70.0	1	74.4	3	2	1.5	34	1.3	15.3	33.0	18.7

2013 SCN PRELIMINARY TEST II

Yield (bu/a)

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Herman	Peru	Urbana
		IA	IA	IL	IN	MI	NE	NE	IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	I	NI
	Strain								
1	IA2102	66.9	64.1	65.5	72.1	59.1	83.7	62.3	69.8
2	IA1022 (SCN)	51.8	53.6	55.3	61.4	43.5	93.6	35.9	62.4
3	IA3024	53.6	52.3	66.9	68.4	43.6	86.6	54.2	67.9
4	LD02- 4485	58.1	62.5	69.8	65.9	59.0	83.3	73.1	75.2
5	AR12-127010	58.1	52.8	59.1	60.7	64.8	88.9	53.1	64.0
6	AR12-127043	56.6	54.4	63.6	58.0	57.3	68.8	41.0	58.6
7	AR12-127084	53.7	62.5	69.5	67.1	62.6	87.0	55.0	70.5
8	AR12-227007	62.1	58.7	59.3	64.9	54.8	84.8	52.2	57.3
9	AR12-227011	55.1	57.0	66.0	72.4	45.0	84.3	47.3	69.2
10	AR12-227024	62.4	49.7	65.0	67.3	53.2	85.0	63.0	62.4
11	AR12-227035	62.3	62.6	65.5	69.3	45.8	87.4	61.0	74.2
12	AR12-227037	56.9	59.5	65.7	71.3	56.6	86.2	67.8	68.4
13	AR12-227055	50.7	57.2	60.9	73.6	46.5	88.3	62.2	74.9
14	AR12-227065	61.7	57.0	63.1	65.3	44.9	89.6	58.9	67.4
15	AR12-227066	54.3	61.1	60.6	69.0	50.7	82.2	44.5	68.7
16	AR12-327003	60.5	52.8	57.4	60.2	45.5	88.9	50.7	66.3
17	AR12-327048	47.9	50.8	59.5	63.3	46.1	81.2	52.3	66.1
18	E05181-T	56.1	62.3	66.5	69.6	57.5	90.9	44.0	64.0
19	E09222LL	56.3	58.7	61.1	65.3	46.5	87.8	62.5	65.7
20	E11095	49.2	61.1	60.2	65.0	63.9	88.5	59.1	66.3
21	E11128T	55.7	50.3	63.4	69.3	64.1	88.1	61.1	64.9
22	LD10-382	50.3	61.5	61.9	64.8	44.1	85.6	53.2	67.0
23	LD10-1249	54.5	62.0	62.8	58.3	30.3	84.4	63.5	67.9
24	LD10-2715	57.1	61.6	71.4	67.5	58.6	86.3	60.2	70.4
25	LD10-5652a	62.0	58.0	65.7	66.1	47.1	83.5	52.1	68.8
26	LD10-5685a	52.6	59.8	62.7	69.3	57.6	84.5	60.5	59.6
27	LD10-5880a	51.9	50.9	62.7	60.1	47.2	81.9	39.2	60.1
28	LD10-8674	62.7	65.4	64.6	69.1	53.5	88.2	64.0	67.7
29	LD10-8707	57.7	53.5	70.7	68.7	58.7	82.1	63.8	68.9
30	LD10-10198	66.6	69.1	67.3	72.6	59.9	91.8	62.8	74.4
	Average	56.8	58.1	63.8	66.5	52.2	85.8	56.0	66.7
	LSD(.05)	10.5	15.1	7.8	7.5	20.5	11.4	19.0	5.9
	C.V. %	9.1	12.7	6.0	5.5	16.0	6.3	14.7	4.3
	Replications	2	2	2	2	2	2	2	2
	Row width (in.)	30	30	30	30	30	30	30	30

2013 SCN PRELIMINARY TEST II

Yield (rank)

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Herman	Peru	Urbana
		IA	IA	IL	IN	MI	NE	NE	IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	I	NI
	Strain								
1	IA2102	1	3	11	4	6	23	9	7
2	IA1022 (SCN)	26	22	30	25	29	1	30	26
3	IA3024	23	26	6	13	28	14	18	14
4	LD02- 4485	10	5	3	18	7	25	1	1
5	AR12-127010	10	24	28	26	1	5	20	23
6	AR12-127043	15	21	15	30	12	30	28	29
7	AR12-127084	22	5	4	16	4	13	17	5
8	AR12-227007	6	15	27	22	14	19	22	30
9	AR12-227011	19	19	8	3	25	22	25	8
10	AR12-227024	4	30	13	15	16	18	6	25
11	AR12-227035	5	4	11	7	23	12	12	4
12	AR12-227037	14	14	9	5	13	16	2	12
13	AR12-227055	27	18	23	1	20	8	10	2
14	AR12-227065	8	20	17	19	26	4	16	16
15	AR12-227066	21	11	24	11	17	26	26	11
16	AR12-327003	9	24	29	27	24	6	24	18
17	AR12-327048	30	28	26	24	22	29	21	20
18	E05181-T	17	7	7	6	11	3	27	23
19	E09222LL	16	15	22	19	20	11	8	21
20	E11095	29	11	25	21	3	7	15	18
21	E11128T	18	29	16	7	2	10	11	22
22	LD10-382	28	10	21	23	27	17	19	17
23	LD10-1249	20	8	18	29	30	21	5	13
24	LD10-2715	13	9	1	14	9	15	14	6
25	LD10-5652a	7	17	9	17	19	24	23	10
26	LD10-5685a	24	13	19	7	10	20	13	28
27	LD10-5880a	25	27	19	28	18	28	29	27
28	LD10-8674	3	2	14	10	15	9	3	15
29	LD10-8707	12	23	2	12	8	27	4	9
30	LD10-10198	2	1	5	2	5	2	7	3

2013 SCN PRELIMINARY TEST II

Maturity

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Herman	Peru	Urbana
		IA	IA	IL	IN	MI	NE	NE	IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	I	NI
	Strain								
1	IA2102	9/29		9/12	9/18		9/26		9/9
2	IA1022 (SCN)	-5		-3	-7		-5		-4
3	IA3024	4		7	5		5		5
4	LD02- 4485	-1		3	2		-2		2
5	AR12-127010	-1		1	2		-4		1
6	AR12-127043	1		1	-5		-1		1
7	AR12-127084	-3		3	2		-3		3
8	AR12-227007	-1		-1	-4		-4		-1
9	AR12-227011	-2		0	0		-4		3
10	AR12-227024	5		6	3		0		9
11	AR12-227035	-2		1	0		-2		3
12	AR12-227037	-1		-1	0		-3		1
13	AR12-227055	-1		0	1		-2		3
14	AR12-227065	1		1	-1		-3		1
15	AR12-227066	-3		-1	-1		-3		1
16	AR12-327003	3		1	2		-2		2
17	AR12-327048	-3		2	2		3		2
18	E05181-T	-5		1	-6		-4		-1
19	E09222LL	1		1	0		-2		-2
20	E11095	-2		1	0		-3		1
21	E11128T	0		1	0		-3		-1
22	LD10-382	-3		0	-1		-4		0
23	LD10-1249	-3		2	-3		-2		-1
24	LD10-2715	-4		1	-1		-3		0
25	LD10-5652a	5		8	2		1		6
26	LD10-5685a	-4		-1	-4		-2		-3
27	LD10-5880a	-5		0	-4		-3		-2
28	LD10-8674	-5		1	-4		-3		-1
29	LD10-8707	1		2	2		-2		4
30	LD10-10198	0		3	1		-1		3
	Planted	6/11	5/24	5/14	5/23	5/1	5/23	5/24	5/15

2013 SCN PRELIMINARY TEST II

Lodging (score)

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Herman	Peru	Urbana
		IA	IA	IL	IN	MI	NE	NE	IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	I	NI
	Strain								
1	IA2102	2.5	2.5	1.5	1.8	2.5	3.5		2.3
2	IA1022 (SCN)	2.0	2.0	1.3	1.3	1.5	3.0		2.0
3	IA3024	2.0	1.8	1.5	1.0	1.5	2.0		1.5
4	LD02- 4485	2.0	2.3	1.3	1.8	1.5	2.5		1.8
5	AR12-127010	2.3	1.5	1.0	1.0	2.0	2.0		1.0
6	AR12-127043	3.3	2.8	2.0	2.0	3.0	4.0		2.5
7	AR12-127084	2.3	2.3	1.5	1.8	2.0	2.5		1.8
8	AR12-227007	2.5	2.5	2.3	1.3	3.0	4.0		2.3
9	AR12-227011	3.0	2.3	1.8	1.5	1.5	4.0		2.0
10	AR12-227024	2.5	2.0	1.8	1.5	1.5	3.0		1.5
11	AR12-227035	2.0	1.5	1.8	1.0	1.5	2.0		1.5
12	AR12-227037	2.5	2.5	1.5	1.3	2.5	3.5		2.3
13	AR12-227055	1.8	2.0	1.3	1.3	1.0	1.0		1.5
14	AR12-227065	2.3	2.0	1.3	1.0	1.5	2.5		2.0
15	AR12-227066	2.5	1.8	1.3	1.5	2.0	2.5		2.5
16	AR12-327003	2.5	3.3	1.3	1.8	3.0	4.0		2.8
17	AR12-327048	2.0	1.8	1.3	1.3	1.5	2.5		2.5
18	E05181-T	1.8	1.3	1.0	1.0	1.0	2.0		1.3
19	E09222LL	2.3	2.3	1.0	1.0	1.5	2.5		1.3
20	E11095	1.8	1.5	1.0	1.0	1.0	3.0		1.0
21	E11128T	2.3	1.8	1.5	1.3	1.5	4.0		1.5
22	LD10-382	2.0	1.3	1.3	1.0	1.0	1.0		1.5
23	LD10-1249	1.8	2.3	1.0	1.0	1.5	1.5		1.3
24	LD10-2715	2.0	1.5	1.0	1.3	2.0	2.0		1.5
25	LD10-5652a	2.3	2.0	1.3	1.3	1.5	3.5		1.8
26	LD10-5685a	2.3	2.0	1.5	2.3	2.0	3.5		2.3
27	LD10-5880a	2.0	1.5	1.0	1.0	1.0	2.5		1.3
28	LD10-8674	2.0	1.5	1.3	1.0	2.0	2.0		1.0
29	LD10-8707	2.3	2.8	1.5	1.5	2.5	4.0		2.5
30	LD10-10198	1.8	1.5	1.0	1.0	1.5	2.5		1.0

2013 SCN PRELIMINARY TEST II

Height (inches)

		Ames IA	Urbana IA	Pontiac IL	West Lafayette IN	Decatur MI	Herman NE	Peru NE	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	I	NI
	Strain								
1	IA2102	35	33	31	36	36			37
2	IA1022 (SCN)	31	35	28	33	29			34
3	IA3024	35	39	35	38	30			36
4	LD02- 4485	33	38	32	34	34			36
5	AR12-127010	34	37	32	37	38			36
6	AR12-127043	36	37	34	39	36			37
7	AR12-127084	36	41	35	40	35			38
8	AR12-227007	33	35	33	37	34			35
9	AR12-227011	35	38	32	36	34			36
10	AR12-227024	38	41	36	41	37			41
11	AR12-227035	33	34	31	35	31			35
12	AR12-227037	32	36	31	34	31			34
13	AR12-227055	33	37	32	37	34			39
14	AR12-227065	37	39	36	39	33			38
15	AR12-227066	36	38	33	37	37			38
16	AR12-327003	34	32	32	34	35			36
17	AR12-327048	36	39	35	40	35			42
18	E05181-T	32	34	29	34	31			33
19	E09222LL	27	30	27	34	29			31
20	E11095	29	30	27	33	31			32
21	E11128T	31	34	32	36	34			37
22	LD10-382	36	37	35	37	36			40
23	LD10-1249	32	37	34	36	31			37
24	LD10-2715	31	33	33	36	34			34
25	LD10-5652a	32	34	32	35	31			35
26	LD10-5685a	33	35	33	36	36			34
27	LD10-5880a	30	33	32	34	31			34
28	LD10-8674	30	35	28	31	31			34
29	LD10-8707	34	37	33	36	34			38
30	LD10-10198	33	35	32	36	34			37

2013 SCN PRELIMINARY TEST II

Seed Quality (score)

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Herman	Peru	Urbana
		IA	IA	IL	IN	MI	NE	NE	IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	I	NI
	Strain								
1	IA2102	2.0		1.0	1.0		1.0	1.0	2.0
2	IA1022 (SCN)	2.0		2.0	1.0		1.0	1.0	2.0
3	IA3024	2.0		1.0	1.0		2.0	1.0	2.0
4	LD02- 4485	2.0		1.0	1.0		1.0	1.0	2.0
5	AR12-127010	2.0		2.0	1.5		2.0	1.0	3.0
6	AR12-127043	2.0		2.0	2.0		2.0	2.0	2.0
7	AR12-127084	2.0		2.0	1.5		1.0	1.0	1.0
8	AR12-227007	1.0		1.0	1.5		1.0	1.0	2.0
9	AR12-227011	2.0		1.0	1.0		2.0	1.0	2.0
10	AR12-227024	2.0		2.0	2.0		1.0	1.0	3.0
11	AR12-227035	2.0		1.0	1.0		1.0	1.0	1.0
12	AR12-227037	2.0		1.0	1.0		1.0	1.0	1.0
13	AR12-227055	2.0		1.0	1.5		1.0	1.0	1.0
14	AR12-227065	2.0		1.0	1.0		2.0	1.0	2.0
15	AR12-227066	2.0		1.0	1.0		1.0	1.0	2.0
16	AR12-327003	2.0		1.0	1.0		1.0	1.0	1.0
17	AR12-327048	2.0		1.0	1.0		1.0	1.0	2.0
18	E05181-T	1.0		1.0	1.0		2.0	1.0	2.0
19	E09222LL	2.0		1.0	1.5		1.0	1.0	1.0
20	E11095	2.0		3.0	1.0		2.0	2.0	3.0
21	E11128T	2.0		2.0	1.5		1.0	1.0	2.0
22	LD10-382	2.0		1.0	1.0		1.0	1.0	1.0
23	LD10-1249	2.0		1.0	1.5		1.0	1.0	2.0
24	LD10-2715	2.0		1.0	1.5		1.0	1.0	1.0
25	LD10-5652a	2.0		1.0	1.0		2.0	1.0	2.0
26	LD10-5685a	3.0		1.0	1.5		1.0	1.0	1.0
27	LD10-5880a	2.0		1.0	1.0		1.0	1.0	2.0
28	LD10-8674	2.0		1.0	1.0		1.0	1.0	2.0
29	LD10-8707	1.0		1.0	1.5		2.0	1.0	2.0
30	LD10-10198	2.0		1.0	1.0		1.0	1.0	2.0

2013 SCN PRELIMINARY TEST II

Seed Weight (g/100)

		Ames	Urbana	Pontiac	West Lafayette	Decatur	Herman	Peru	Urbana
		IA	IA	IL	IN	MI	NE	NE	IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	I	NI
	Strain								
1	IA2102	15.0		16.0	15.6		21.2	17.1	16.6
2	IA1022 (SCN)	14.8		16.8	14.8		21.8	14.2	17.4
3	IA3024	14.2		16.8	15.8		22.5	16.5	15.6
4	LD02- 4485	13.9		15.2	14.3		19.1	14.5	15.4
5	AR12-127010	17.5		17.1	16.7		21.9	18.5	18.1
6	AR12-127043	18.0		18.5	16.6		23.7	16.6	17.1
7	AR12-127084	15.2		15.2	14.5		20.5	15.4	16.1
8	AR12-227007	17.8		17.7	17.0		23.7	17.5	18.0
9	AR12-227011	12.0		13.8	12.9		18.3	12.3	14.1
10	AR12-227024	15.4		15.7	15.7		20.8	14.9	16.3
11	AR12-227035	14.7		14.0	13.6		20.1	14.9	14.7
12	AR12-227037	15.7		16.6	12.5		21.9	18.2	17.0
13	AR12-227055	13.9		14.8	15.2		20.1	14.1	17.1
14	AR12-227065	15.4		15.6	15.0		20.8	15.1	16.4
15	AR12-227066	16.5		15.7	16.4		21.2	16.5	17.9
16	AR12-327003	12.7		13.3	12.6		18.5	14.7	13.6
17	AR12-327048	13.0		13.4	13.7		21.2	14.4	14.0
18	E05181-T	21.1		22.5	19.2		26.2	22.2	22.2
19	E09222LL	13.9		14.7	14.2		19.7	13.7	15.1
20	E11095	15.0		14.7	15.3		21.3	15.9	16.5
21	E11128T	19.9		20.1	19.7		26.3	21.2	22.9
22	LD10-382	14.6		15.5	14.3		19.2	14.2	15.0
23	LD10-1249	16.0		18.3	16.8		22.4	18.3	18.4
24	LD10-2715	12.9		14.5	13.7		19.0	13.8	14.6
25	LD10-5652a	13.2		13.7	14.2		19.5	11.4	14.0
26	LD10-5685a	15.1		15.1	14.1		21.4	15.6	14.7
27	LD10-5880a	15.5		17.4	15.0		20.7	15.8	17.4
28	LD10-8674	12.2		13.5	12.6		15.4	12.6	13.0
29	LD10-8707	13.7		14.6	16.4		17.8	15.0	13.9
30	LD10-10198	14.9		14.9	13.8		17.0	15.0	16.0

2013 SCN PRELIMINARY TEST II

Protein (%)

		Ames IA	Urbana IA	Pontiac IL	West Lafayette IN	Decatur MI	Herman NE	Peru NE	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	I	NI
	Strain								
1	IA2102	35.3		33.1	33.6				34.6
2	IA1022 (SCN)	33.7		32.5	31.0				33.2
3	IA3024	33.7		32.9	31.6				33.2
4	LD02- 4485	33.1		32.4					31.5
5	AR12-127010	36.0		35.1	35.3				36.4
6	AR12-127043	36.3		35.6	34.5				35.8
7	AR12-127084	34.4		33.8	32.9				33.9
8	AR12-227007	35.5		36.3	34.2				36.5
9	AR12-227011	33.2		32.6	32.7				33.2
10	AR12-227024	34.4		35.2	34.6				35.4
11	AR12-227035	33.8		34.5	34.1				33.9
12	AR12-227037	34.8		34.4	31.6				34.6
13	AR12-227055	33.4		34.5	33.8				33.0
14	AR12-227065	35.2		36.5	36.1				35.5
15	AR12-227066	35.2		35.2	32.6				34.5
16	AR12-327003	35.4		34.0	31.7				32.7
17	AR12-327048	37.4		34.7	34.1				34.4
18	E05181-T	36.1		34.8	33.5				36.0
19	E09222LL	35.6		33.4	34.9				34.5
20	E11095	33.2		31.7	32.6				32.6
21	E11128T	38.1		37.5	38.3				37.6
22	LD10-382	35.8		34.4	33.1				33.8
23	LD10-1249	33.8		32.6	32.6				33.7
24	LD10-2715	34.6		32.9	33.4				33.2
25	LD10-5652a	33.0		34.3	32.9				34.7
26	LD10-5685a	34.3		34.4	35.1				35.4
27	LD10-5880a	34.8		35.3	34.3				35.1
28	LD10-8674	32.9		30.5	31.5				32.5
29	LD10-8707	31.9		31.9	33.6				31.7
30	LD10-10198	33.1		33.0	32.5				33.4

2013 SCN PRELIMINARY TEST II

Oil (%)

		Ames IA	Urbana IA	Pontiac IL	West Lafayette IN	Decatur MI	Herman NE	Peru NE	Urbana IL
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	5.7	2.5.7	I	NI
	Strain								
1	IA2102	17.3		19.0	18.8				18.6
2	IA1022 (SCN)	19.8		19.5	21.1				19.7
3	IA3024	18.3		19.4	19.9				18.6
4	LD02- 4485	18.4		18.4					19.2
5	AR12-127010	17.8		18.5	18.7				17.5
6	AR12-127043	17.9		17.7	19.4				18.7
7	AR12-127084	17.4		17.6	18.9				18.4
8	AR12-227007	19.1		17.8	19.8				18.3
9	AR12-227011	19.3		19.7	20.1				19.4
10	AR12-227024	18.5		17.4	18.6				17.7
11	AR12-227035	19.7		18.6	19.5				18.9
12	AR12-227037	18.1		19.1	19.6				18.7
13	AR12-227055	18.8		18.9	19.9				19.3
14	AR12-227065	18.0		18.6	19.7				19.1
15	AR12-227066	17.5		17.8	19.5				17.7
16	AR12-327003	18.1		18.8	19.7				19.2
17	AR12-327048	17.7		19.1	19.8				19.2
18	E05181-T	18.8		19.4	19.7				18.6
19	E09222LL	18.1		18.4	18.4				17.5
20	E11095	19.7		19.6	20.0				19.5
21	E11128T	16.5		17.2	18.0				17.6
22	LD10-382	18.4		19.9	19.8				20.0
23	LD10-1249	19.3		19.3	20.5				19.9
24	LD10-2715	18.7		19.3	19.6				19.7
25	LD10-5652a	18.7		18.6	19.5				18.3
26	LD10-5685a	18.8		19.0	19.5				19.1
27	LD10-5880a	19.0		18.7	19.4				18.4
28	LD10-8674	18.4		20.0	19.7				18.2
29	LD10-8707	18.7		17.9	19.4				18.9
30	LD10-10198	17.9		19.1	19.2				18.7

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2013 SCN UNIFORM TEST III

	Strain	Descriptive code	Parentage
1	IA3023	WLtbl	Dairyland DSR-365 x Pioneer P9381
2	IA3024	PGibl	A97-553017 x Pioneer YB33A99
3	IA3048	WGy	Dairyland 99540 x IA2068
4	IA4005	WLtbl	IA3023 x IA3025
5	AR11-213003	PGibl	AR05-250118 x PI 438489B
6	K10-8556	PT+Ltbl	IA3023 x LD00-3309
7	LD08-923	WGy	LD02-6538 x LD03-7610
8	LD08-1592	PGgr+ibl	LD03-7607 x LD00-3309
9	LD08-8622	PGibl	M30121 x IA3024
10	LD09-3645	WTbl	Syngenta 02JR318004 x LD02-6538
11	LD09-10242	PTbr	LD02-5025 x LD01-5907
12	LD09-10911	PGibl	LD00-2817 x LD02-4485
13	LD09-11732	PGbf	LD02-4485 x LD04-12754
14	LD09-11822	PGbf	LD02-4485 x LD04-12754
15	LD09-30224	PGibl	LD05-3230 x LDX07-178a-1-7

	Strain	Previous testing	Gen. Comp	SCN source	Traits
1	IA3023	11	F5	None	
2	IA3024	6	F5	None	1% linolenic
3	IA3048	3	F4	PI88788	
4	IA4005	2	F4	None	1% linolenic
5	AR11-213003	12 SCN P III	F6	PI438489B / PI88788	IDC
6	K10-8556	12 SCN P III	F4	PI88788	
7	LD08-923	12 SCN P III	F5	PI88788	
8	LD08-1592	1	F5	PI88788	
9	LD08-8622	1	F5	PI88788	
10	LD09-3645	12 SCN P III	F5	PI88788	
11	LD09-10242	12 SCN P III	F5	PI88788 / PI437654	
12	LD09-10911	12 SCN P III	F5	PI88788 / PI437654	
13	LD09-11732	12 SCN P III	F5	PI88788	
14	LD09-11822	12 SCN P III	F5	PI88788	
15	LD09-30224	12 SCN P II	F5	PI88788	Rag1

2013 SCN UNIFORM TEST III

		IL SCN screen			
		HG Type 0		HG Type 2.5.7	
	Strain	FI	rating	score	rating
1	IA3023	57	LR	51	LR
2	IA3024	71	NR	55	LR
3	IA3048	1	HR	54	LR
4	IA4005	63	NR	65	NR
5	AR11-213003	6	HR	49	LR
6	K10-8556	4	HR	55	LR
7	LD08-923	4	HR	65	NR
8	LD08-1592	3	HR	57	LR
9	LD08-8622	4	HR	69	NR
10	LD09-3645	5	HR	52	LR
11	LD09-10242	0	HR	33	MR
12	LD09-10911	1	HR	58	LR
13	LD09-11732	11	R	53	LR
14	LD09-11822	9	HR	64	NR
15	LD09-30224	1	HR	45	LR

		ISU IDC	ISU IDC	SIU SDS	
		Bruner	N. Woodruff	Valmeyer	
	Strain	score	score	DX	
1	IA3023	2.0	2.0	42	
2	IA3024	2.8	2.3	47	
3	IA3048	3.0	3.5	1	
4	IA4005	3.0	3.0	13	
5	AR11-213003	1.8	.	14	
6	K10-8556	3.5	3.5	26	
7	LD08-923	1.8	2.5	6	
8	LD08-1592	3.0	4.0	1	
9	LD08-8622	2.0	3.0	25	
10	LD09-3645	1.8	.	2	
11	LD09-10242	2.0	2.0	6	
12	LD09-10911	2.8	3.0	8	
13	LD09-11732	2.8	2.0	9	
14	LD09-11822	2.0	2.5	8	
15	LD09-30224	1.5	1.0	2	
	A11 (res)	1.4	1.1	2	SS02-15897(res)
	Dwight (sus)	2.6	2.8	39	2900CR(sus)
	LSD	1.1	1.0	21	LSD

2013 SCN UNIFORM TEST III

Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	8		6		10	13	12	12	13	9	9
1	IA3023	53.3	14	45.6	15	9/22	1.4	30	1.6	15.8	32.2	19.5
2	IA3024	51.1	15	48.3	12	-2	1.5	32	2.2	16.6	32.8	19.1
3	IA3048	63.5	11	45.7	14	-1	1.7	31	1.7	15.5	34.2	19.1
4	IA4005	55.3	13	55.7	2	6	1.3	30	1.6	15.1	33.9	18.5
5	AR11-213003	65.3	7	48.5	11	-3	1.6	32	1.6	15.9	34.2	18.7
6	K10-8556	66.2	5	51.5	7	3	1.8	30	1.8	16.4	32.4	19.0
7	LD08-923	62.4	12	46.3	13	0	1.7	31	2.0	15.1	32.9	19.0
8	LD08-1592	67.3	3	51.6	6	0	1.4	34	1.9	16.6	34.6	18.5
9	LD08-8622	66.0	6	56.5	1	3	1.8	34	1.8	15.9	33.4	19.4
10	LD09-3645	63.7	10	51.1	8	1	1.4	32	1.7	16.1	33.7	20.1
11	LD09-10242	63.8	9	50.0	10	-1	1.8	33	2.3	14.4	33.5	18.5
12	LD09-10911	68.3	2	53.4	3	-1	1.5	30	1.9	14.6	34.0	19.0
13	LD09-11732	65.2	8	53.3	4	0	1.6	30	1.7	14.5	32.2	19.3
14	LD09-11822	67.0	4	53.3	4	2	1.7	34	1.7	14.2	32.8	18.6
15	LD09-30224	70.5	1	50.7	9	-2	1.6	30	1.9	16.7	34.4	18.5

2 Year Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	16		13		21	25	24	24	26	20	20
1	IA3023	48.0	5	50.5	4	9/21	1.5	31	1.8	15.5	32.4	19.6
2	IA3024	46.9	6	48.0	5	-2	1.4	33	2.3	16.3	33.1	19.2
3	IA3048	57.1	3	47.6	6	0	1.6	33	1.9	15.4	34.2	19.1
4	IA4005	49.1	4	57.7	1	6	1.3	31	1.7	14.7	33.9	18.8
8	LD08-1592	59.5	1	53.0	3	1	1.4	34	2.0	16.0	34.4	18.7
9	LD08-8622	58.6	2	56.8	2	3	1.8	35	1.9	15.3	33.2	19.4

2013 SCN UNIFORM TEST III

Yield (bu/a)

		Glenwood IA	Muscatine IA	Arthur IL	West Lafayette IN	Manhattan KS	Clarkton MO	Herman NE	Peru NE
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	2.5.7	I
	Strain								
1	IA3023	73.5	32.1	64.4	53.6	36.2	20.1	85.2	61.0
2	IA3024	61.9	35.7	64.1	63.0	33.6	22.6	79.0	48.8
3	IA3048	82.5	58.0	59.6	63.7	61.4	24.7	90.9	66.8
4	IA4005	66.7	29.9	69.4	62.4	42.1	24.2	92.7	55.4
5	AR11-213003	81.0	58.4	66.1	75.2	57.4	18.4	92.5	73.5
6	K10-8556	79.5	66.0	71.5	65.3	65.9	29.9	85.5	65.8
7	LD08-923	75.4	71.4	60.1	62.4	63.4	26.9	89.6	49.7
8	LD08-1592	82.6	62.6	60.6	68.3	58.9	31.6	92.1	82.0
9	LD08-8622	90.6	47.1	74.7	71.4	58.7	32.1	88.6	65.0
10	LD09-3645	69.9	59.3	65.3	66.6	61.7	30.6	86.2	69.6
11	LD09-10242	73.5	67.8	60.1	60.5	62.0	29.5	93.4	63.9
12	LD09-10911	88.1	57.4	64.4	68.2	68.6	37.0	87.9	74.8
13	LD09-11732	80.7	65.5	65.8	64.8	64.6	22.3	78.8	79.1
14	LD09-11822	79.6	71.0	69.9	68.0	58.1	26.2	81.1	81.8
15	LD09-30224	82.3	79.8	61.8	69.8	53.6	45.4	92.4	79.2
	Average	77.8	57.5	65.2	65.5	56.7	28.1	87.7	67.8
	LSD(.05)	5.6	12.4	7.0	6.1	6.1	21.9	11.9	13.0
	C.V. %	3.3	10.0	5.0	5.6	7.8	12.4	6.3	9.0
	Replications	2	2	2	3	3	3	2	2
	Row width (in.)	30	30	30	30	30	30	30	30

2013 SCN UNIFORM TEST III

Yield (bu/a)

		Urbana IL	Ottawa KS	Columbia MO	Portage-ville MO	Hoytville OH	Plain City OH
	SCN HG Type	NI	NI	NI	NI	NI	NI
	Strain						
1	IA3023	36.4	43.1	26.1	51.3	50.9	36.4
2	IA3024	43.7	45.8	29.1	54.6	52.0	43.7
3	IA3048	43.9	49.0	25.6	50.9	44.3	43.9
4	IA4005	49.0	46.7	52.1	55.9	60.6	49.0
5	AR11-213003	46.7	48.6	22.3	49.9	61.7	46.7
6	K10-8556	42.2	46.6	46.6	57.8	52.9	42.2
7	LD08-923	40.5	45.9	28.5	51.5	56.8	40.5
8	LD08-1592	43.4	47.3	40.2	59.9	56.3	43.4
9	LD08-8622	54.5	44.6	51.7	59.9	59.5	54.5
10	LD09-3645	41.3	49.7	34.9	57.2	61.1	41.3
11	LD09-10242	45.3	47.0	38.0	57.0	52.2	45.3
12	LD09-10911	46.1	53.9	33.6	58.6	60.9	46.1
13	LD09-11732	44.0	44.8	33.0	59.9	68.7	44.0
14	LD09-11822	52.1	46.5	31.2	62.9	62.5	52.1
15	LD09-30224	46.4	52.1	30.6	52.7	62.4	46.4
	Average	45.0	47.4	34.9	56.0	57.5	45.0
	LSD(.05)	5.2	3.8	13.3	8.9	11.5	5.2
	C.V. %	8.3	4.8	9.3	9.5	11.8	8.3
	Replications	3	3	3	3	3	3
	Row width (in.)	30	30	30	7.5	15	30

2013 SCN UNIFORM TEST III

Yield (rank)

		Glenwood	Muscatine	Arthur	West Lafayette	Manhattan	Clarkton	Herman	Peru
		IA	IA	IL	IN	KS	MO	NE	NE
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	2.5.7	I
	Strain								
1	IA3023	11	14	8	15	14	14	12	12
2	IA3024	15	13	10	11	15	12	14	15
3	IA3048	4	10	15	10	7	10	6	8
4	IA4005	14	15	4	12	13	11	2	13
5	AR11-213003	6	9	5	1	11	15	3	6
6	K10-8556	9	5	2	8	2	6	11	9
7	LD08-923	10	2	13	12	4	8	7	14
8	LD08-1592	3	7	12	4	8	4	5	1
9	LD08-8622	1	12	1	2	9	3	8	10
10	LD09-3645	13	8	7	7	6	5	10	7
11	LD09-10242	11	4	13	14	5	7	1	11
12	LD09-10911	2	11	8	5	1	2	9	5
13	LD09-11732	7	6	6	9	3	13	15	4
14	LD09-11822	8	3	3	6	10	9	13	2
15	LD09-30224	5	1	11	3	12	1	4	3

2013 SCN UNIFORM TEST III

Yield (rank)

		Urbana IL	Ottawa KS	Columbia MO	Portage-ville MO	Hoytville OH	Plain City OH
	SCN HG Type	NI	NI	NI	NI	NI	NI
	Strain						
1	IA3023	7	15	15	13	12	14
2	IA3024	6	10	12	11	9	13
3	IA3048	13	9	4	14	13	15
4	IA4005	1	3	8	1	8	7
5	AR11-213003	11	4	5	15	14	4
6	K10-8556	8	12	9	3	5	11
7	LD08-923	15	14	11	12	11	9
8	LD08-1592	9	11	6	4	2	10
9	LD08-8622	3	1	14	2	2	8
10	LD09-3645	10	13	3	6	6	5
11	LD09-10242	12	7	7	5	7	12
12	LD09-10911	4	6	1	7	4	6
13	LD09-11732	1	8	13	8	3	1
14	LD09-11822	5	2	10	9	1	2
15	LD09-30224	14	5	2	10	10	3

2013 SCN UNIFORM TEST III

Maturity

		Glenwood	Muscatine	Arthur	West Lafayette	Manhattan	Clarkton	Herman	Peru
		IA	IA	IL	IN	KS	MO	NE	NE
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	2.5.7	I
	Strain								
1	IA3023		10/1	9/20	9/26	9/14	9/8	10/2	
2	IA3024		0	-1	-4	-5	-4	-3	
3	IA3048		-3	-1	-2	3	-2	-4	
4	IA4005		4	10	7	6	-3	4	
5	AR11-213003		-5	-1	-3	-4	-4	-4	
6	K10-8556		1	7	3	7	-2	-1	
7	LD08-923		-1	1	0	2	0	-4	
8	LD08-1592		3	1	-1	1	-3	-5	
9	LD08-8622		-3	7	2	5	2	1	
10	LD09-3645		-2	3	0	0	2	-3	
11	LD09-10242		2	-2	-3	2	1	-6	
12	LD09-10911		2	-2	-3	1	4	-6	
13	LD09-11732		-1	1	1	2	-4	-3	
14	LD09-11822		2	8	2	3	-2	1	
15	LD09-30224		2	-2	-2	-1	-3	-5	
	Planted	5/17	5/7	5/23	5/23	5/15	5/23	5/23	5/24

2013 SCN UNIFORM TEST III

Maturity

		Urbana	Ottawa	Columbia	Portage-ville	Hoytville	Plain City
		IL	KS	MO	MO	OH	OH
	SCN HG Type	NI	NI	NI	NI	NI	NI
	Strain						
1	IA3023	9/20		9/17	9/29	9/26	9/24
2	IA3024	-2		2	-1	0	0
3	IA3048	-3		4	0	1	0
4	IA4005	6		11	9	6	6
5	AR11-213003	-7		1	-2	-5	-3
6	K10-8556	4		5	-1	5	4
7	LD08-923	-3		6	-2	5	0
8	LD08-1592	-2		6	-1	3	1
9	LD08-8622	1		5	8	5	1
10	LD09-3645	0		8	-1	5	1
11	LD09-10242	-5		1	-2	0	0
12	LD09-10911	-3		1	-4	1	2
13	LD09-11732	0		4	-4	4	1
14	LD09-11822	3		6	-3	5	2
15	LD09-30224	-2		0	-4	0	0
	Planted	5/15	5/28	6/7	6/14	5/17	5/8

2013 SCN UNIFORM TEST III

Lodging (score)

		Glenwood	Muscatine	Arthur	West Lafayette	Manhattan	Clarkton	Herman	Peru
		IA	IA	IL	IN	KS	MO	NE	NE
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	2.5.7	I
	Strain								
1	IA3023	2.8	1.8	2.0	1.0	1.0	1.0	1.5	
2	IA3024	3.8	1.8	1.5	1.0	1.0	1.0	1.5	
3	IA3048	3.3	2.5	2.0	1.3	1.0	1.0	2.0	
4	IA4005	2.5	1.5	1.3	1.0	1.0	1.0	1.5	
5	AR11-213003	3.0	2.0	1.5	1.0	1.0	1.0	1.5	
6	K10-8556	3.8	2.3	2.8	1.2	1.0	1.0	3.0	
7	LD08-923	3.3	2.0	2.0	1.0	1.3	1.0	2.0	
8	LD08-1592	2.5	1.8	1.8	1.0	1.0	1.0	1.0	
9	LD08-8622	3.5	2.0	2.3	1.2	1.7	1.0	2.5	
10	LD09-3645	2.5	1.8	1.5	1.0	1.0	1.0	1.5	
11	LD09-10242	4.3	2.0	2.3	1.0	1.7	1.0	3.0	
12	LD09-10911	3.3	1.8	1.5	1.0	1.0	1.0	2.0	
13	LD09-11732	3.3	1.8	2.0	1.2	1.0	1.0	3.0	
14	LD09-11822	3.3	2.3	2.8	1.5	1.0	1.0	2.0	
15	LD09-30224	3.5	2.5	1.5	1.0	1.0	1.0	2.0	

2013 SCN UNIFORM TEST III

Lodging (score)

		Urbana	Ottawa	Columbia	Portage-ville	Hoytville	Plain City
		IL	KS	MO	MO	OH	OH
	SCN HG Type	NI	NI	NI	NI	NI	NI
	Strain						
1	IA3023	1.8	1.0	1.7	1.0	1.0	1.3
2	IA3024	1.8	1.0	1.5	1.0	1.0	1.5
3	IA3048	2.3	1.0	1.7	1.0	1.0	1.4
4	IA4005	1.3	1.0	1.5	1.0	1.0	1.5
5	AR11-213003	2.5	1.0	2.7	1.0	1.0	1.7
6	K10-8556	2.5	1.0	1.5	1.0	1.0	1.3
7	LD08-923	3.5	1.0	1.5	1.0	1.0	1.8
8	LD08-1592	1.8	1.0	1.3	1.0	1.0	1.4
9	LD08-8622	2.8	1.0	1.7	1.0	1.0	1.6
10	LD09-3645	1.5	1.0	1.5	1.0	1.0	1.4
11	LD09-10242	2.3	1.0	1.5	1.0	1.0	1.8
12	LD09-10911	1.8	1.0	1.5	1.0	1.0	1.8
13	LD09-11732	1.8	1.0	1.5	1.0	1.0	1.2
14	LD09-11822	2.3	1.0	1.5	1.0	1.0	1.9
15	LD09-30224	1.5	1.0	2.0	1.0	1.0	2.0

2013 SCN UNIFORM TEST III

Height (inches)

		Glenwood IA	Muscatine IA	Arthur IL	West Lafayette IN	Manhattan KS	Clarkton MO	Herman NE	Peru NE
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	2.5.7	I
	Strain								
1	IA3023	41	25	36	32	34	23		
2	IA3024	42	26	39	37	37	20		
3	IA3048	43	28	36	36	38	23		
4	IA4005	39	25	37	32	35	20		
5	AR11-213003	42	29	36	38	36	17		
6	K10-8556	39	27	37	34	36	20		
7	LD08-923	41	32	37	37	38	21		
8	LD08-1592	45	33	39	38	41	24		
9	LD08-8622	44	31	40	39	40	24		
10	LD09-3645	43	30	40	37	37	22		
11	LD09-10242	41	33	41	35	41	20		
12	LD09-10911	41	23	37	37	35	19		
13	LD09-11732	42	28	36	34	36	18		
14	LD09-11822	45	35	41	39	40	23		
15	LD09-30224	41	30	35	35	33	22		

2013 SCN UNIFORM TEST III

Height (inches)

		Urbana IL	Ottawa KS	Columbia MO	Portage-ville MO	Hoytville OH	Plain City OH
	SCN HG Type	NI	NI	NI	NI	NI	NI
	Strain						
1	IA3023	37	29	27	18	25	29
2	IA3024	38	28	30	20	28	33
3	IA3048	35	30	28	18	29	28
4	IA4005	38	28	27	21	26	31
5	AR11-213003	37	30	29	20	31	35
6	K10-8556	36	26	27	19	27	27
7	LD08-923	37	28	27	20	27	31
8	LD08-1592	40	31	30	22	29	32
9	LD08-8622	38	34	30	21	31	33
10	LD09-3645	37	26	30	22	28	34
11	LD09-10242	38	30	31	19	28	33
12	LD09-10911	36	28	28	19	27	31
13	LD09-11732	37	28	26	21	28	30
14	LD09-11822	42	29	30	22	31	35
15	LD09-30224	34	28	29	21	25	32

2013 SCN UNIFORM TEST III

Seed Quality (score)

		Glenwood IA	Muscatine IA	Arthur IL	West Lafayette IN	Manhattan KS	Clarkton MO	Herman NE	Peru NE
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	2.5.7	I
	Strain								
1	IA3023		2.0	1.0	1.0	1.0	3.0	1.0	
2	IA3024		3.0	1.0	1.5	3.0	3.0	2.0	1.0
3	IA3048		2.0	1.0	1.0	1.0	3.0	1.0	1.0
4	IA4005		2.0	1.0	1.0	2.0	4.0	1.0	1.0
5	AR11-213003		2.0	1.0	1.0	2.0	2.0	1.0	1.0
6	K10-8556		2.0	1.0	1.0	2.0	3.0	1.0	2.0
7	LD08-923		2.0	2.0	1.0	2.0	3.0	2.0	1.0
8	LD08-1592		2.0	2.0	1.0	3.0	3.0	1.0	1.0
9	LD08-8622		2.0	1.0	1.0	1.0	3.0	1.0	1.0
10	LD09-3645		2.0	2.0	1.0	1.0	3.0	2.0	1.0
11	LD09-10242		3.0	2.0	1.0	2.0	3.0	1.0	2.0
12	LD09-10911		2.0	2.0	1.0	3.0	3.0	1.0	1.0
13	LD09-11732		2.0	1.0	1.0	3.0	2.0	2.0	1.0
14	LD09-11822		2.0	1.0	1.0	2.0	3.0	2.0	1.0
15	LD09-30224		2.0	1.0	1.0	3.0	3.0	1.0	1.0

2013 SCN UNIFORM TEST III

Seed Quality (score)

		Urbana	Ottawa	Columbia	Portage-ville	Hoytville	Plain City
		IL	KS	MO	MO	OH	OH
	SCN HG Type	NI	NI	NI	NI	NI	NI
	Strain						
1	IA3023	1.0	2.0	1.7	3.0	1.0	2.0
2	IA3024	2.0	2.0	2.5	3.0	1.0	3.0
3	IA3048	1.0	2.0	1.5	3.0	1.0	3.0
4	IA4005	1.0	2.0	1.7	1.0	1.0	2.0
5	AR11-213003	1.0	2.0	1.7	3.0	1.0	2.0
6	K10-8556	1.0	2.0	2.0	3.0	1.0	3.0
7	LD08-923	2.0	2.0	1.5	4.0	1.0	2.0
8	LD08-1592	2.0	2.0	1.7	3.0	1.0	2.0
9	LD08-8622	2.0	2.0	1.8	4.0	1.0	2.0
10	LD09-3645	1.0	2.0	1.5	3.0	1.0	2.0
11	LD09-10242	2.0	3.0	2.0	5.0	1.0	3.0
12	LD09-10911	1.0	2.0	1.8	4.0	1.0	2.0
13	LD09-11732	1.0	3.0	1.7	2.0	1.0	2.0
14	LD09-11822	1.0	2.0	1.5	3.0	1.0	2.0
15	LD09-30224	1.0	3.0	1.8	4.0	1.0	2.0

2013 SCN UNIFORM TEST III

Seed Weight (g/100)

		Glenwood IA	Muscatine IA	Arthur IL	West Lafayette IN	Manhattan KS	Clarkton MO	Herman NE	Peru NE
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	2.5.7	I
	Strain								
1	IA3023		15.7	14.3	14.7	14.5	12.7	20.3	
2	IA3024		16.3	16.1	15.1	14.5	14.0	23.5	15.8
3	IA3048		17.4	13.6	15.0	14.8	13.7	20.5	14.8
4	IA4005		14.0	14.7	14.3	13.2	11.3	19.9	14.2
5	AR11-213003		16.6	14.8	15.7	16.0	15.4	20.6	14.7
6	K10-8556		18.0	15.3	15.8	14.9	16.3	21.2	15.7
7	LD08-923		17.1	12.6	14.2	15.1	16.6	19.7	14.2
8	LD08-1592		19.2	14.2	16.1	15.8	15.2	22.1	17.1
9	LD08-8622		14.4	16.8	15.8	15.2	15.6	21.4	14.7
10	LD09-3645		16.3	15.2	15.5	15.4	15.5	20.7	15.6
11	LD09-10242		15.8	13.1	14.1	14.9	13.0	19.1	14.6
12	LD09-10911		14.8	12.7	14.2	13.8	14.8	18.9	14.5
13	LD09-11732		14.3	12.3	13.5	13.2	12.2	18.6	14.7
14	LD09-11822		14.9	12.9	12.8	13.4	13.0	17.8	14.9
15	LD09-30224		18.5	13.7	15.6	16.1	17.6	22.7	16.4

2013 SCN UNIFORM TEST III

Seed Weight (g/100)

		Urbana IL	Ottawa KS	Columbia MO	Portage-ville MO	Hoytville OH	Plain City OH
	SCN HG Type	NI	NI	NI	NI	NI	NI
	Strain						
1	IA3023	14.1	19.6	12.9	19.6	14.6	16.6
2	IA3024	16.1	18.7	12.8	19.5	14.8	18.1
3	IA3048	13.8	16.0	14.3	18.2	14.1	15.0
4	IA4005	13.1	17.2	12.0	21.6	13.6	17.4
5	AR11-213003	14.4	17.7	12.4	19.4	13.3	16.1
6	K10-8556	15.2	18.3	12.1	20.0	14.5	16.3
7	LD08-923	13.0	15.7	12.8	18.8	12.8	13.8
8	LD08-1592	14.7	16.4	13.3	20.4	15.1	16.5
9	LD08-8622	15.0	16.2	11.9	18.7	14.3	16.8
10	LD09-3645	15.7	17.5	12.9	17.5	14.1	17.1
11	LD09-10242	12.8	14.7	11.3	15.4	13.4	14.9
12	LD09-10911	12.9	15.0	12.7	17.5	12.4	15.8
13	LD09-11732	13.1	16.2	13.0	19.3	13.1	15.6
14	LD09-11822	12.3	17.0	11.4	16.8	12.4	14.8
15	LD09-30224	14.6	19.0	12.7	19.4	13.8	16.8

2013 SCN UNIFORM TEST III

Protein (%)

		Muscatine	Arthur	West Lafayette	Manhattan	Clarkton	Urbana	Columbia	Hoytville	Plain City
		IA	IL	IN	KS	MO	IL	MO	OH	OH
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain									
1	IA3023	32.2	32.8	32.3	32.7	28.3	31.4	34.4	31.8	33.8
2	IA3024	33.9	32.2	33.3	33.1	30.6	31.9	34.5	32.3	33.3
3	IA3048	35.3	35.6	34.3	34.2	29.6	34.1	35.7	33.6	35.3
4	IA4005	34.9	33.3	35.8	34.6	29.9	33.0	36.4	33.8	33.8
5	AR11-213003	34.6	34.4	33.9	34.8	32.4	33.7	35.0	33.9	34.6
6	K10-8556	32.7	33.1	31.9	33.5	30.4	31.1	34.0	32.5	32.6
7	LD08-923	33.6	34.9	32.2	32.4	31.1	32.1	33.8	31.8	34.6
8	LD08-1592	34.4	35.9	35.0	35.4	32.1	33.4	35.8	34.0	35.9
9	LD08-8622	34.9	32.0	34.5	33.4	30.8	33.5	34.2	32.3	35.1
10	LD09-3645	33.3	34.5	34.6	34.3	31.3	33.3		32.6	35.6
11	LD09-10242	34.5	34.2	34.2	33.9	29.2	33.0	35.0	33.1	34.4
12	LD09-10911	35.5	34.3	31.8	34.1	32.7	34.0	35.7	32.0	35.5
13	LD09-11732	32.0	31.8	32.8	33.4	30.0	30.8	33.1	31.5	34.1
14	LD09-11822	34.0	33.2	32.7	33.3	31.5	31.7	34.4	31.0	33.7
15	LD09-30224	34.5	34.7	35.2	34.1	33.4	33.5	36.2	33.0	35.2

2013 SCN UNIFORM TEST III

Oil (%)

		Muscatine	Arthur	West Lafayette	Manhattan	Clarkton	Urbana	Columbia	Hoytville	Plain City
		IA	IL	IN	KS	MO	IL	MO	OH	OH
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain									
1	IA3023	19.8	19.0	19.4	20.4	21.7	19.5	18.6	18.9	18.5
2	IA3024	19.1	19.0	19.0	20.6	20.6	19.4	17.4	17.9	18.5
3	IA3048	20.0	18.3	18.7	20.5	22.2	18.6	17.8	18.3	17.8
4	IA4005	18.4	18.6	17.5	19.8	21.1	18.4	16.0	18.1	18.3
5	AR11-213003	18.9	18.3	18.6	20.4	20.2	18.4	17.5	18.0	18.1
6	K10-8556	19.6	18.3	19.7	19.5	20.0	19.1	17.3	18.6	18.6
7	LD08-923	19.2	17.8	19.2	20.7	20.2	19.4	18.0	18.5	17.9
8	LD08-1592	18.2	17.1	18.8	20.1	20.5	19.2	17.0	18.2	17.4
9	LD08-8622	19.0	19.6	18.8	21.3	21.3	19.7	17.6	18.8	18.2
10	LD09-3645	20.4	19.6	19.6	21.3	21.8	20.5		19.2	18.6
11	LD09-10242	17.8	18.2	18.3	19.5	20.8	18.8	17.5	17.6	17.7
12	LD09-10911	18.1	18.7	19.4	20.5	20.0	19.2	17.6	19.4	17.8
13	LD09-11732	19.3	19.2	18.6	20.4	21.4	19.6	18.6	18.7	18.0
14	LD09-11822	18.7	18.4	18.3	20.0	20.4	18.4	17.4	18.7	17.2
15	LD09-30224	18.7	18.1	18.3	20.6	19.6	18.9	16.6	18.4	17.5

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	Strain	Descriptive code	Parentage
1	IA3023	WLtbl	Dairyland DSR-365 x Pioneer P9381
2	IA3024	PGibl	A97-553017 x Pioneer YB33A99
3	IA3048	WGy	Dairyland 99540 x IA2068
4	IA4005	WLtbl	IA3023 x IA3025
5	AR12-227070	PTbl	AR05-250101 x Golden Harvest X 33802
6	AR12-227104	PTbl/br	AR03-161009 x Syngenta 05JR200591
7	AR12-327021	PGibl	AR05-250101 x PI 606749
8	AR12-327037	PGibl	AR05-250101 x Golden Harvest X 33802
9	AR12-327045	PLtbl	AR05-250103 x Golden Harvest X 33686
10	AR12-327064	PLtbl	AR07-176119 x Syngenta 03JR101916
11	AR12-327067	PT+Ltbl	AR07-276077 x Syngenta 03JR101916
12	AR12-327071	PTbr	AR03-361091 x PI 606749
13	AR12-327073	WGbf	IAR2001BSR x PI 606749
14	AR12-327078	WGbf	AR03-161009 x Syngenta 05JR200591
15	LD10- 3337	PGbf	LD06-7648 x LD01-5907
16	LD10- 3720	PGy	LD01- 5907 x Syngenta 03JR101916
17	LD10- 5916a	PGbf	M99-286047 x LD05-16638
18	LD10- 6853	PTbl	U02-242055 x LD00-2817P
19	LD10- 6923	WGbf	LD03-10504 x LD01- 5907
20	LD10- 6930	PTbr	LD03-10504 x LD01- 5907
21	LD10- 8238	PGibl	Dairyland 75260 x LD02- 4485
22	LD10- 9763	PGy	Dairyland 75226 x LD01-7323
23	LD10- 9785	PGy	Dairyland 75226 x LD01-7323
24	LD10- 9816	P+WGy	Dairyland 75226 x LD01-7323
25	LD10- 9823	PGy	Dairyland 75226 x LD01-7323
26	LD10-10219	PLtbl	LD05-3230 x LD00-3309
27	LD10-30014	WLtbl	LD05-16657 x LDX08-210a
28	U11-627092	PTbl	U98-311442 x LD04-11056

	Strain	Gen comp	SCN source	Traits
1	IA3023	F5	None	
2	IA3024	F5	None	1% linolenic
3	IA3048	F4	PI88788	
4	IA4005	F4	None	1% linolenic
5	AR12-227070	F4	PI88788	SDS, IDC
6	AR12-227104	F4	PI507354 / PI88788	
7	AR12-327021	F4	PI606749 / PI88788	IDC
8	AR12-327037	F4	PI88788	SDS, IDC
9	AR12-327045	F4	PI88788	SDS, IDC
10	AR12-327064	F4	PI88788	
11	AR12-327067	F4	PI88788	
12	AR12-327071	F4	PI606749 / PI88788	SDS
13	AR12-327073	F4	PI606749	BSR
14	AR12-327078	F4	PI507354 / PI88788	
15	LD10- 3337	F5	PI88788 / PI437654	
16	LD10- 3720	F5	PI88788 / PI437654	
17	LD10- 5916a	F5	PI88788	Rag1
18	LD10- 6853	F5	PI88788 / PI437654	
19	LD10- 6923	F5	PI88788 / PI437654	
20	LD10- 6930	F5	PI88788 / PI437654	
21	LD10- 8238	F5	PI88788	
22	LD10- 9763	F5	PI88788	
23	LD10- 9785	F5	PI88788	
24	LD10- 9816	F5	PI88788	
25	LD10- 9823	F5	PI88788	
26	LD10-10219	F5	PI88788	
27	LD10-30014	F4	PI88788	Rag1+2
28	U11-627092	F6	PI88788	

2013 SCN PRELIMINARY TEST III

	IL SCN screen				ISU IDC	ISU IDC	MN IDC
	HG Type 0		HG Type 2.5.7		Res=1.2	Res=1.0	Davners
Strain	FI	rating	score	rating	Sus=2.8	Sus=1.7	score
1 IA3023	57	LR	51	LR	2.0	2.0	57
2 IA3024	71	NR	55	LR	2.8	2.3	71
3 IA3048	1	HR	54	LR	3.0	3.5	1
4 IA4005	63	NR	65	NR	3.0	3.0	63
5 AR12-227070	6	HR	75	NR	1.8	2.8	6
6 AR12-227104	4	HR	59	LR	3.3	3.0	4
7 AR12-327021	1	HR	51	**	2.5	3.0	1
8 AR12-327037	5	HR	52	LR	2.5	3.5	5
9 AR12-327045	6	HR	53	LR	3.0	3.5	6
10 AR12-327064	3	HR	52	LR	2.8	3.3	3
11 AR12-327067	7	HR	57	LR	3.3	3.3	7
12 AR12-327071	0	HR	31	**	3.0	3.5	0
13 AR12-327073	3	HR	38	**	1.5	3.5	3
14 AR12-327078	4	HR	69	NR	3.0	3.3	4
15 LD10- 3337	50	LR	37	**	2.3	3.0	50
16 LD10- 3720	5	HR	57	LR	2.5	3.5	5
17 LD10- 5916a	1	HR	57	LR	1.0	2.5	1
18 LD10- 6853	2	HR	44	LR	3.8	3.0	2
19 LD10- 6923	3	HR	69	NR	2.3	3.0	3
20 LD10- 6930	2	HR	51	LR	2.0	3.3	2
21 LD10- 8238	3	HR	70	NR	3.0	3.5	3
22 LD10- 9763	4	HR	56	LR	2.5	3.5	4
23 LD10- 9785	17	R	64	NR	3.0	3.0	17
24 LD10- 9816	3	HR	62	NR	3.5	.	3
25 LD10- 9823	14	R	49	LR	2.3	3.3	14
26 LD10-10219	2	HR	49	LR	2.5	3.0	2
27 LD10-30014	3	HR	64	NR	2.0	1.8	3
28 U11-627092	8	HR	60	NR	2.3	3.0	8

** rep data too variable to rate

A11 (res)	1.4	1.1
Dwight (sus)	2.6	2.8
LSD	1.1	1.0

2013 SCN PRELIMINARY TEST III

Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Location	6		3		6	8	7	8	8	5	5
1	IA3023	61.2	25	52.0	10	9/23	1.6	33	1.6	16.0	33.0	19.2
2	IA3024	54.2	28	50.6	18	-1	1.5	33	2.0	16.4	32.9	19.2
3	IA3048	67.3	8	50.3	20	0	1.9	33	1.6	15.4	34.5	19.2
4	IA4005	62.3	24	56.2	1	7	1.4	33	2.2	14.5	34.5	18.2
5	AR12-227070	63.5	20	51.0	17	-6	2.0	35	1.7	14.5	33.1	20.1
6	AR12-227104	64.2	17	47.1	26	4	1.5	37	2.7	17.2	34.6	18.7
7	AR12-327021	64.7	16	44.1	27	-3	2.6	37	2.2	12.2	34.4	18.8
8	AR12-327037	71.4	3	49.6	24	-3	1.6	34	1.8	14.6	33.5	19.3
9	AR12-327045	66.4	10	50.6	18	-2	2.5	38	1.4	14.5	34.5	19.4
10	AR12-327064	70.9	4	50.2	21	-1	1.8	32	2.5	17.6	34.1	19.4
11	AR12-327067	71.5	2	52.0	10	1	1.7	32	1.7	15.4	35.4	18.9
12	AR12-327071	63.6	19	42.5	28	7	3.7	51	2.3	11.9	34.7	18.3
13	AR12-327073	65.7	15	51.2	16	2	2.5	41	1.7	13.6	34.3	18.9
14	AR12-327078	63.9	18	54.3	5	4	2.2	33	2.6	17.8	35.8	18.0
15	LD10- 3337	66.0	13	51.7	13	-1	2.0	36	1.7	12.8	34.3	18.6
16	LD10- 3720	66.4	10	54.8	3	2	2.1	33	2.1	14.3	35.6	18.7
17	LD10- 5916a	62.8	23	49.8	23	-3	2.3	37	2.0	15.5	34.6	18.8
18	LD10- 6853	66.8	9	52.1	9	4	1.8	37	1.9	13.9	34.3	18.4
19	LD10- 6923	63.3	22	55.0	2	1	2.2	35	1.7	14.9	34.7	19.3
20	LD10- 6930	65.8	14	53.4	8	-4	2.4	34	2.1	14.9	34.5	18.5
21	LD10- 8238	69.1	6	54.0	6	-4	2.3	35	1.9	16.7	35.5	18.7
22	LD10- 9763	69.6	5	49.1	25	-3	1.9	33	1.9	15.1	35.5	18.3
23	LD10- 9785	63.5	21	51.3	15	-5	2.3	31	1.7	13.3	34.5	18.9
24	LD10- 9816	66.4	10	54.0	6	-5	2.5	34	1.8	15.5	35.2	19.4
25	LD10- 9823	67.8	7	51.8	12	-4	2.5	32	1.8	14.4	34.7	18.8
26	LD10-10219	73.2	1	54.6	4	-2	1.4	30	1.7	15.9	34.4	19.0
27	LD10-30014	60.1	26	51.5	14	-3	2.5	33	1.7	14.0	33.9	18.9
28	U11-627092	60.0	27	50.0	22	1	1.7	37	1.8	16.5	34.9	19.6

2013 SCN PRELIMINARY TEST III

Yield (bu/a)

		Glenwood IA	Muscatine IA	Arthur IL	Manhattan KS	Herman NE	Peru NE	Urbana IL	Ottawa KS	Columbia MO
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	I	NI	NI	NI
	Strain									
1	IA3023	74.8	36.7	64.7	42.4	84.6	63.9	65.7	46.8	43.4
2	IA3024	71.0	30.7	64.0	32.6	75.5	51.5	62.8	42.8	46.2
3	IA3048	77.6	58.2	58.0	53.6	91.1	65.5	54.8	51.4	44.7
4	IA4005	77.9	28.6	67.5	51.5	92.1	56.0	66.4	50.6	51.5
5	AR12-227070	69.2	52.4	61.9	44.9	82.9	69.8	60.2	47.1	45.7
6	AR12-227104	73.8	49.5	57.2	45.2	87.4	72.1	55.6	44.5	41.1
7	AR12-327021	72.9	56.0	57.8	52.3	78.8	70.3	53.9	37.0	41.5
8	AR12-327037	82.3	61.7	63.2	51.2	93.6	76.7	62.7	40.0	46.2
9	AR12-327045	72.1	58.0	62.2	52.1	88.4	65.4	58.9	52.3	40.6
10	AR12-327064	74.6	57.0	65.3	58.2	89.6	80.5	61.4	46.1	43.0
11	AR12-327067	85.2	60.1	62.8	58.7	87.4	74.6	63.3	49.4	43.2
12	AR12-327071	71.0	58.8	46.7	48.7	90.0	66.2	46.8	39.5	41.1
13	AR12-327073	77.0	66.2	54.3	47.4	82.8	66.6	61.9	47.1	44.5
14	AR12-327078	71.5	54.8	67.3	50.1	73.8	66.1	67.6	48.3	46.9
15	LD10- 3337	74.8	52.3	63.3	61.2	79.3	65.0	60.0	49.2	45.9
16	LD10- 3720	70.7	54.3	63.5	62.3	88.3	59.4	62.7	49.0	52.7
17	LD10- 5916a	73.4	52.5	58.1	49.2	84.1	59.4	60.8	44.4	44.1
18	LD10- 6853	79.3	62.3	66.7	53.9	83.1	55.4	63.7	47.5	45.0
19	LD10- 6923	68.8	63.6	62.0	57.1	74.4	54.1	64.7	52.3	48.0
20	LD10- 6930	67.9	69.0	58.6	52.7	93.1	53.6	64.1	47.1	49.1
21	LD10- 8238	78.3	64.3	65.6	48.2	81.3	76.8	68.7	42.4	50.9
22	LD10- 9763	76.1	67.8	62.3	57.5	92.0	61.8	59.3	46.2	41.9
23	LD10- 9785	73.8	58.6	55.7	48.5	85.6	58.8	58.1	48.5	47.2
24	LD10- 9816	77.5	59.4	60.7	48.2	88.7	64.0	62.8	47.7	51.6
25	LD10- 9823	82.3	60.6	62.3	43.0	92.9	66.0	60.7	44.4	50.2
26	LD10-10219	81.5	71.0	67.7	57.4	95.7	65.6	62.7	46.2	54.9
27	LD10-30014	63.3	62.0	59.7	52.8	75.4	47.5	57.9	51.9	44.7
28	U11-627092	68.6	51.1	58.4	43.6	81.6	56.7	59.1	44.5	46.3
	Average	74.5	56.3	61.3	51.2	85.5	63.9	60.9	46.8	46.2
	LSD(.05)	10.4	9.5	6.2	6.8	14.1	12.1	6.0	4.5	5.2
	C.V. %	6.8	8.2	4.9	7.9	7.7	9.3	4.8	5.7	6.9
	Replications	2	2	2	2	2	2	2	2	3
	Row width (in.)	30	30	30	30	30	30	30	30	30

2013 SCN PRELIMINARY TEST III

Yield (rank)

		Glenwood IA	Muscatine IA	Arthur IL	Manhattan KS	Herman NE	Peru NE	Urbana IL	Ottawa KS	Columbia MO
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	I	NI	NI	NI
	Strain									
1	IA3023	12	26	7	27	16	17	4	16	21
2	IA3024	21	27	8	28	25	27	9	24	12
3	IA3048	8	15	23	9	7	13	26	4	17
4	IA4005	7	28	2	14	5	23	3	5	4
5	AR12-227070	24	22	17	24	19	7	18	13	15
6	AR12-227104	15	25	25	23	13	5	25	20	26
7	AR12-327021	18	18	24	12	24	6	27	28	25
8	AR12-327037	2	9	11	15	2	3	11	26	12
9	AR12-327045	19	16	15	13	11	14	22	1	28
10	AR12-327064	14	17	6	4	9	1	15	19	23
11	AR12-327067	1	11	12	3	13	4	8	6	22
12	AR12-327071	21	13	28	18	8	9	28	27	26
13	AR12-327073	10	4	27	22	20	8	14	13	19
14	AR12-327078	20	19	3	16	28	10	2	10	10
15	LD10- 3337	12	23	10	2	23	15	19	7	14
16	LD10- 3720	23	20	9	1	12	20	11	8	2
17	LD10- 5916a	17	21	22	17	17	19	16	22	20
18	LD10- 6853	5	7	4	8	18	24	7	12	16
19	LD10- 6923	25	6	16	7	27	25	5	1	8
20	LD10- 6930	27	2	20	11	3	26	6	13	7
21	LD10- 8238	6	5	5	20	22	2	1	25	5
22	LD10- 9763	11	3	13	5	6	18	20	17	24
23	LD10- 9785	15	14	26	19	15	21	23	9	9
24	LD10- 9816	9	12	18	20	10	16	9	11	3
25	LD10- 9823	2	10	13	26	4	11	17	22	6
26	LD10-10219	4	1	1	6	1	12	11	17	1
27	LD10-30014	28	8	19	10	26	28	24	3	17
28	U11-627092	26	24	21	25	21	22	21	20	11

Maturity

		Glenwood	Muscatine	Arthur	Manhattan	Herman	Peru	Urbana	Ottawa	Columbia
		IA	IA	IL	KS	NE	NE	IL	KS	MO
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	I	NI	NI	NI
	Strain									
1	IA3023		10/1	9/20	9/15	10/1		9/20		9/16
2	IA3024		-9	-1	-2	0		-2		6
3	IA3048		-5	-1	3	-3		-1		5
4	IA4005		-2	10	9	4		7		12
5	AR12-227070		-10	-5	-7	-8		-6		-2
6	AR12-227104		4	3	7	-1		1		9
7	AR12-327021		-5	-1	-6	-6		-6		3
8	AR12-327037		-6	-4	-4	-4		-2		1
9	AR12-327045		-8	0	2	-5		-5		3
10	AR12-327064		-1	-2	-1	-2		-3		4
11	AR12-327067		-4	1	3	-1		-1		9
12	AR12-327071		3	10	6	3		8		13
13	AR12-327073		-1	4	2	-2		0		8
14	AR12-327078		2	8	6	0		2		9
15	LD10- 3337		-3	0	1	-2		-2		2
16	LD10- 3720		5	0	3	0		-1		4
17	LD10- 5916a		-8	-2	-6	-3		-5		3
18	LD10- 6853		1	6	4	-2		4		9
19	LD10- 6923		-2	0	5	0		1		1
20	LD10- 6930		-9	-2	-4	-6		-5		2
21	LD10- 8238		-9	-1	-4	-3		-4		-1
22	LD10- 9763		-4	-1	-4	-3		-5		1
23	LD10- 9785		-9	-2	-6	-6		-8		-2
24	LD10- 9816		-10	-2	-4	-5		-6		-1
25	LD10- 9823		-8	-2	-4	-3		-8		-1
26	LD10-10219		-3	-2	-3	-5		-5		4
27	LD10-30014		-9	-2	-4	-1		-6		2
28	U11-627092		-1	0	2	-3		-1		9
	Planted	5/17	5/7	5/23	5/15	5/23	5/24	5/15	5/28	6/7

2013 SCN PRELIMINARY TEST III

Lodging (score)

		Glenwood IA	Muscatine IA	Arthur IL	Manhattan KS	Herman NE	Peru NE	Urbana IL	Ottawa KS	Columbia MO
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	I	NI	NI	NI
	Strain									
1	IA3023	2.5	1.8	1.8	1.5	1.0		1.5	1.0	1.7
2	IA3024	3.5	1.5	1.3	1.0	1.5		1.0	1.0	1.5
3	IA3048	3.0	2.3	2.0	1.0	2.5		2.0	1.0	1.5
4	IA4005	2.3	1.5	1.3	1.0	1.5		1.5	1.0	1.5
5	AR12-227070	3.8	1.8	2.3	1.0	2.5		1.8	1.0	1.5
6	AR12-227104	2.3	2.0	1.5	1.0	1.5		1.5	1.0	1.5
7	AR12-327021	3.5	2.0	2.8	3.5	2.5		3.0	1.0	2.2
8	AR12-327037	3.5	1.5	1.5	1.0	1.0		2.0	1.0	1.5
9	AR12-327045	3.8	1.8	3.3	3.5	2.0		2.8	1.0	2.2
10	AR12-327064	3.5	2.0	1.3	1.5	2.0		1.5	1.0	1.5
11	AR12-327067	2.5	2.3	1.8	1.0	2.0		1.8	1.0	1.5
12	AR12-327071	3.8	3.5	3.8	4.0	4.0		3.3	3.0	4.0
13	AR12-327073	3.8	2.3	2.5	2.5	3.0		2.8	1.0	2.2
14	AR12-327078	3.3	1.8	2.3	1.5	4.0		2.3	1.0	1.5
15	LD10- 3337	3.8	1.5	2.5	2.0	2.0		1.5	1.0	1.5
16	LD10- 3720	4.0	2.0	2.3	1.0	3.0		1.8	1.0	1.7
17	LD10- 5916a	3.8	1.8	3.0	1.5	3.0		2.5	1.0	1.5
18	LD10- 6853	3.0	1.8	2.0	1.5	2.0		1.5	1.0	1.5
19	LD10- 6923	3.8	1.8	2.8	1.0	3.5		2.3	1.0	1.8
20	LD10- 6930	3.5	2.3	2.5	1.5	3.5		2.8	1.0	2.3
21	LD10- 8238	3.3	2.3	2.5	2.0	2.5		2.3	1.0	2.7
22	LD10- 9763	3.5	2.5	2.0	1.0	2.0		1.8	1.0	1.7
23	LD10- 9785	3.8	2.3	2.5	2.5	2.5		2.0	1.0	2.2
24	LD10- 9816	3.5	2.0	2.8	2.0	3.5		2.8	1.0	2.3
25	LD10- 9823	3.5	1.8	2.5	2.5	3.0		2.8	1.0	2.8
26	LD10-10219	2.3	2.0	1.0	1.0	1.5		1.0	1.0	1.3
27	LD10-30014	4.0	1.8	1.8	1.5	4.0		3.8	1.0	1.8
28	U11-627092	2.8	1.8	2.0	1.0	1.5		2.0	1.0	1.5

2013 SCN PRELIMINARY TEST III

Height (inches)

		Glenwood IA	Muscatine IA	Arthur IL	Manhattan KS	Herman NE	Peru NE	Urbana IL	Ottawa KS	Columbia MO
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	I	NI	NI	NI
	Strain									
1	IA3023	41	27	38	36			35	28	27
2	IA3024	43	27	37	35			34	29	29
3	IA3048	40	27	38	35			35	32	27
4	IA4005	40	24	35	37			36	31	27
5	AR12-227070	44	32	42	33			37	29	30
6	AR12-227104	44	32	40	39			38	35	30
7	AR12-327021	47	34	41	39			36	34	30
8	AR12-327037	42	31	37	34			38	29	30
9	AR12-327045	47	37	42	39			40	36	30
10	AR12-327064	40	28	34	31			35	27	29
11	AR12-327067	39	29	36	32			34	26	26
12	AR12-327071	67	49	52	46			51	49	47
13	AR12-327073	51	40	44	38			40	36	38
14	AR12-327078	37	28	38	35			37	32	27
15	LD10- 3337	43	32	40	40			38	34	30
16	LD10- 3720	38	30	37	33			36	30	28
17	LD10- 5916a	45	33	40	36			37	33	32
18	LD10- 6853	44	33	41	39			39	31	32
19	LD10- 6923	38	30	38	38			38	33	30
20	LD10- 6930	41	32	37	31			36	30	29
21	LD10- 8238	42	35	36	33			37	33	28
22	LD10- 9763	42	31	37	33			33	26	29
23	LD10- 9785	39	28	34	30			32	28	27
24	LD10- 9816	43	29	36	35			35	30	28
25	LD10- 9823	41	28	36	35			34	27	27
26	LD10-10219	39	27	34	29			31	24	27
27	LD10-30014	43	31	37	34			34	29	27
28	U11-627092	45	33	41	35			39	34	34

2013 SCN PRELIMINARY TEST III

Seed Quality (score)

		Glenwood IA	Muscatine IA	Arthur IL	Manhattan KS	Herman NE	Peru NE	Urbana IL	Ottawa KS	Columbia MO
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	I	NI	NI	NI
	Strain									
1	IA3023		2.0	1.0	2.0	2.0	1.0	1.0	2.0	1.7
2	IA3024		3.0	1.0	2.0	2.0	2.0	1.0	3.0	2.3
3	IA3048		2.0	1.0	2.0	2.0	1.0	1.0	2.0	1.5
4	IA4005		3.0	1.0	3.0	2.0	2.0	1.0	3.0	2.2
5	AR12-227070		2.0	1.0	2.0	1.0	1.0	1.0	3.0	2.2
6	AR12-227104		4.0	2.0	3.0	2.0	2.0	2.0	4.0	2.3
7	AR12-327021		2.0	2.0	3.0	2.0	2.0	2.0	3.0	1.5
8	AR12-327037		2.0	1.0	2.0	1.0	2.0	1.0	3.0	2.0
9	AR12-327045		2.0	1.0	2.0	1.0	1.0	1.0	2.0	1.5
10	AR12-327064		4.0	2.0	3.0	2.0	2.0	2.0	3.0	2.0
11	AR12-327067		3.0	1.0	2.0	2.0	1.0	1.0	2.0	1.5
12	AR12-327071		2.0	2.0	3.0	2.0	2.0	2.0	3.0	2.3
13	AR12-327073		2.0	1.0	2.0	1.0	2.0	2.0	2.0	1.5
14	AR12-327078		3.0	3.0	2.0		2.0	3.0	3.0	2.5
15	LD10- 3337		2.0	1.0	3.0	2.0	1.0	1.0	2.0	1.5
16	LD10- 3720		3.0	2.0	2.0	1.0	2.0	1.0	3.0	2.5
17	LD10- 5916a		2.0	2.0	2.0	2.0	2.0	1.0	3.0	2.0
18	LD10- 6853		2.0	1.0	3.0	1.0	1.0	2.0	3.0	2.5
19	LD10- 6923		3.0	2.0	2.0	1.0	1.0	1.0	2.0	1.3
20	LD10- 6930		2.0	2.0	2.0	2.0	2.0	2.0	3.0	1.8
21	LD10- 8238		2.0	1.0	2.0	2.0	2.0	1.0	3.0	2.0
22	LD10- 9763		2.0	2.0	2.0	2.0	2.0	1.0	2.0	1.8
23	LD10- 9785		2.0	1.0	2.0	2.0	2.0	1.0	2.0	1.7
24	LD10- 9816		3.0	1.0	2.0		1.0	2.0	2.0	1.5
25	LD10- 9823		3.0	1.0	2.0	2.0	1.0	1.0	3.0	1.7
26	LD10-10219		3.0	1.0	2.0	1.0	1.0	1.0	3.0	1.7
27	LD10-30014		2.0	1.0	2.0	1.0	1.0	2.0	3.0	1.8
28	U11-627092		2.0	1.0	2.0	1.0	1.0	2.0	3.0	2.0

2013 SCN PRELIMINARY TEST III

Seed Weight (g/100)

		Glenwood IA	Muscatine IA	Arthur IL	Manhattan KS	Herman NE	Peru NE	Urbana IL	Ottawa KS	Columbia MO
	SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	2.5.7	I	NI	NI	NI
	Strain									
1	IA3023		16.6	14.5	14.6	21.0	14.6	14.6	19.5	12.5
2	IA3024		16.2	15.8	14.8	21.6	14.5	15.9	19.4	13.4
3	IA3048		16.2	13.1	15.2	20.8	14.7	13.5	16.8	12.7
4	IA4005		13.9	14.8	13.5	17.4	14.0	14.2	15.9	12.3
5	AR12-227070		14.5	12.8	13.6	19.1	16.0	14.0	14.8	11.1
6	AR12-227104		17.7	16.1	16.8	21.2	18.7	16.9	16.7	13.6
7	AR12-327021		13.3	10.6	11.7	15.5	13.6	10.7	12.0	10.2
8	AR12-327037		15.5	12.9	15.1	17.7	14.8	13.8	16.3	11.0
9	AR12-327045		14.4	13.0	13.7	22.0	14.6	12.8	14.8	11.1
10	AR12-327064		19.1	14.5	16.7	25.0	17.9	15.6	19.0	13.1
11	AR12-327067		16.4	12.9	15.1	19.9	17.1	13.6	16.1	11.7
12	AR12-327071		12.5	10.1	12.5	14.5	13.8	10.3	11.3	10.1
13	AR12-327073		14.3	12.0	13.8	17.4	14.9	12.3	12.8	11.4
14	AR12-327078		17.2	19.7	17.3		19.3	18.1	18.4	14.9
15	LD10- 3337		13.3	11.7	10.7	16.5	14.4	12.0	12.8	11.2
16	LD10- 3720		15.0	13.4	13.8	19.3	13.5	12.8	14.9	11.4
17	LD10- 5916a		15.4	13.6	14.6	21.9	14.7	14.9	15.5	13.4
18	LD10- 6853		15.9	13.3	11.6	18.9	14.2	13.3	12.8	10.9
19	LD10- 6923		16.0	13.7	13.9	20.9	13.9	13.8	14.6	12.2
20	LD10- 6930		16.0	14.0	13.2	21.4	13.1	13.8	15.3	12.4
21	LD10- 8238		16.7	15.3	16.3	20.9	16.8	16.3	17.3	14.0
22	LD10- 9763		16.5	13.8	14.4	20.6	14.7	14.6	15.4	11.0
23	LD10- 9785		13.6	11.4	14.3	16.6	13.4	12.3	14.5	10.2
24	LD10- 9816		16.4	14.6	14.9		17.9	15.2	16.5	13.3
25	LD10- 9823		15.7	12.5	13.4	19.8	13.9	13.2	15.0	12.0
26	LD10-10219		17.8	14.0	15.3	20.5	15.1	14.3	17.2	13.0
27	LD10-30014		15.1	12.2	13.3	18.8	14.1	12.4	15.4	10.8
28	U11-627092		17.8	14.6	16.3	19.9	15.7	16.5	17.7	13.6

2013 SCN PRELIMINARY TEST III

Protein (%)

		Muscatine IA	Arthur IL	Manhattan KS	Urbana IL	Columbia MO
	SCN HG Type	2.5.7	2.5.7	2.5.7	NI	NI
	Strain					
1	IA3023	33.1	32.9	33.9	31.2	33.9
2	IA3024	33.6	33.3	33.0	30.7	33.8
3	IA3048	34.2	34.5	34.4	33.4	35.9
4	IA4005	34.8	34.9	35.3	32.5	35.2
5	AR12-227070	33.8	32.4	32.5	32.7	33.9
6	AR12-227104	36.6	34.0	35.1	32.6	34.5
7	AR12-327021	36.5	32.8	34.8	33.5	34.3
8	AR12-327037	34.2	33.2	33.1	32.3	34.6
9	AR12-327045	34.5	34.1	34.0	34.1	35.7
10	AR12-327064	34.9	33.6	33.7	33.0	35.2
11	AR12-327067	36.6	34.9	35.9	34.1	35.5
12	AR12-327071	33.7	34.2	35.1	33.7	36.7
13	AR12-327073	35.4	32.6	35.3	32.9	35.1
14	AR12-327078	36.6	36.1	35.3	34.3	36.5
15	LD10- 3337	33.9	34.7	35.0	33.3	34.4
16	LD10- 3720	35.5	36.3	36.0	34.3	36.1
17	LD10- 5916a	33.7	34.9	34.0	33.9	36.6
18	LD10- 6853	35.7	32.4	35.5	32.5	35.5
19	LD10- 6923	35.6	35.6	33.8	33.2	35.1
20	LD10- 6930	35.7	34.9	33.6	32.9	35.6
21	LD10- 8238	35.6	36.3	34.8	33.9	36.8
22	LD10- 9763	35.3	36.6	34.3	35.7	35.6
23	LD10- 9785	34.7	35.4	33.6	33.0	35.9
24	LD10- 9816	34.7	35.4	34.2	35.2	36.6
25	LD10- 9823	35.0	35.5	34.1	33.6	35.3
26	LD10-10219	34.1	33.9	35.5	33.2	35.2
27	LD10-30014	34.8	33.3	34.1	33.6	33.6
28	U11-627092	36.5	35.2	34.9	32.6	35.4

2013 SCN PRELIMINARY TEST III

Oil (%)

		Muscatine IA	Arthur IL	Manhattan KS	Urbana IL	Columbia MO
	SCN HG Type	2.5.7	2.5.7	2.5.7	NI	NI
	Strain					
1	IA3023	19.0	19.3	20.3	19.3	18.2
2	IA3024	18.9	18.6	20.5	20.5	17.5
3	IA3048	20.1	18.9	20.5	19.3	17.4
4	IA4005	17.4	17.9	19.6	18.5	17.5
5	AR12-227070	19.8	20.0	21.3	20.5	18.8
6	AR12-227104	17.4	18.8	20.2	19.8	17.5
7	AR12-327021	18.2	19.3	20.0	18.9	17.5
8	AR12-327037	19.8	19.1	20.9	19.5	17.0
9	AR12-327045	19.5	19.6	20.7	19.5	17.8
10	AR12-327064	19.0	19.0	20.9	20.2	17.8
11	AR12-327067	18.6	19.0	20.4	19.4	17.3
12	AR12-327071	18.8	18.5	19.4	18.2	16.4
13	AR12-327073	18.0	19.5	19.9	19.5	17.4
14	AR12-327078	18.0	18.2	19.5	18.5	16.0
15	LD10- 3337	19.1	18.6	19.2	18.7	17.3
16	LD10- 3720	18.6	18.2	19.9	19.3	17.5
17	LD10- 5916a	19.8	18.9	20.0	19.0	16.4
18	LD10- 6853	18.3	19.5	19.2	18.7	16.6
19	LD10- 6923	19.3	18.8	21.5	19.7	17.2
20	LD10- 6930	18.4	18.6	19.8	19.4	16.5
21	LD10- 8238	19.5	18.3	20.3	18.7	16.6
22	LD10- 9763	18.9	18.1	19.7	18.3	16.7
23	LD10- 9785	19.5	18.5	20.0	19.3	17.5
24	LD10- 9816	20.3	18.6	20.5	19.5	17.9
25	LD10- 9823	19.2	18.1	19.9	19.4	17.3
26	LD10-10219	19.6	18.5	19.7	19.3	17.9
27	LD10-30014	18.6	19.0	19.9	18.5	18.6
28	U11-627092	19.0	19.1	20.9	20.3	19.0

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2013 SCN UNIFORM TEST IV

	Strain	Descriptive code	Parentage
1	LD06-7620	PGbl	IA3023 x LD00- 3309
2	IA4005	WLtbl	IA3023 x IA3025
3	LD00- 2817P	PGibl	Ina x Dwight
4	LD07-3395bf	WGbf	LD07-3395 RESELECTION
5	LD09-12184	P+WGibl+bf	Soygenetics M30504 x LD01-7323
6	LS07-2935	PTbl	SS98-7851 x LD00-3309
7	LS07-3125	WGbf	SS98-7851 x LD00-3309
8	LS07-3131	PGibl	SS98-7851 x LD00-3309
9	LS08-5837	WTbl	LS93-0375 x LS98-0582
10	LS09-1527	PLtbr	Syngenta 30257-b02-07197 x LS01-3615
11	LS09-1803	WTbl	LD00-1938 x LS02-2213
12	LS09-2342	WTbl	Syngenta 98620-b1-51163 x LS01-1734
13	LS09-2655	WGbf	Syngenta 98620-b1-51163 x LS02-0425
14	LS09-2659	PGibl	Syngenta 98620-b1-51163 x LS02-0425
15	LS09-2722	PLtgr	Syngenta 98620-b1-51163 x LS02-0425

	Strain	Previous testing	Gen. Comp	SCN source	Traits
1	LD06-7620	2	F5	PI88788	
2	IA4005	1	F4	None	1% linolenic
3	LD00- 2817P	5	F5	PI88788 / PI437654	
4	LD07-3395bf	12 SCN P IV	F5	PI88788 / PI437654	
5	LD09-12184	12 SCN P IV	F5	PI88788	
6	LS07-2935	2	F5	PI88788	
7	LS07-3125	2	F5	PI88788	
8	LS07-3131	2	F5	PI88788	
9	LS08-5837	1	F6	PI88788	
10	LS09-1527	12 SCN P IV	F6	na	
11	LS09-1803	12 SCN P IV	F6	PI88788	
12	LS09-2342	12 SCN P IV	F6	na	
13	LS09-2655	12 SCN P IV	F6	na	
14	LS09-2659	12 SCN P IV	F6	na	
15	LS09-2722	12 SCN P IV	F6	na	

2013 SCN UNIFORM TEST IV

		IL SCN screen				SIU SDS
		HG 0		HG 2.5.7		LSD = 35
	Strain	FI	rating	FI	rating	DX
1	LD06-7620	6	HR	52	LR	22
2	IA4005	63	NR	65	NR	28
3	LD00- 2817P	0	HR	4	HR	6
4	LD07-3395bf	3	HR	21	R	16
5	LD09-12184	4	HR	74	NR	36
6	LS07-2935	2	HR	49	LR	22
7	LS07-3125	4	HR	66	NR	33
8	LS07-3131	7	HR	58	LR	22
9	LS08-5837	6	HR	67	NR	12
10	LS09-1527	2	HR	55	LR	50
11	LS09-1803	11	R	53	LR	25
12	LS09-2342	11	R	63	NR	25
13	LS09-2655	11	R	77	NR	44
14	LS09-2659	10	R	74	NR	42
15	LS09-2722	4	HR	57	LR	42

Ripley (res)	12
Spencer (sus)	64
LSD	17

2013 SCN UNIFORM TEST IV

Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	5		5		8	10	10	10	10	7	7
1	LD06-7620	50.4	5	59.8	9	9/27	1.3	31	2.2	14.0	32.8	19.6
2	IA4005	43.4	14	54.8	12	-1	1.1	28	2.0	13.9	33.2	19.5
3	LD00- 2817P	49.1	11	52.3	15	3	1.7	35	2.2	13.4	32.2	20.1
4	LD07-3395bf	51.7	1	62.6	2	-1	1.2	28	2.3	15.4	32.2	20.4
5	LD09-12184	50.6	4	61.3	5	0	1.6	36	2.0	14.6	33.8	19.6
6	LS07-2935	49.4	10	58.0	11	2	2.0	39	1.9	15.5	33.6	19.5
7	LS07-3125	48.6	13	53.1	13	0	1.2	35	1.9	13.0	33.1	20.1
8	LS07-3131	50.2	6	61.3	5	2	1.5	36	1.8	15.0	33.3	19.7
9	LS08-5837	43.4	14	52.5	14	0	1.6	34	2.1	13.9	33.8	18.9
10	LS09-1527	51.1	3	60.7	7	3	2.0	35	1.9	16.3	32.9	19.9
11	LS09-1803	51.4	2	60.0	8	3	2.3	37	1.7	13.4	33.7	18.9
12	LS09-2342	49.0	12	59.7	10	2	2.0	36	2.1	15.9	33.4	20.7
13	LS09-2655	50.2	6	61.7	4	3	1.2	35	2.3	16.9	34.6	19.6
14	LS09-2659	50.2	6	63.5	1	4	1.3	35	2.4	16.9	34.1	19.7
15	LS09-2722	50.0	9	62.2	3	4	1.2	32	2.4	15.6	34.9	19.4

2 Year Summary

		Yield							Seed			
		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil
	Strain	bu/a	rank	bu/a	rank	date	score	inches	score	g/100	@13%	@13%
	Locations	9		9		15	18	18	18	18	14	14
1	LD06-7620	51.5	5	52.1	2	9/25	1.4	31	2.2	14.5	33.4	19.3
2	IA4005	52.4	4	47.8	5	0	1.3	30	2.1	14.5	34.0	19.1
3	LD00- 2817P	50.9	6	46.1	7	4	1.8	36	2.4	13.9	32.1	19.8
6	LS07-2935	52.7	3	50.3	3	3	2.2	40	1.8	16.1	33.9	19.4
7	LS07-3125	53.2	2	48.8	4	1	1.4	36	1.8	13.4	33.2	20.0
8	LS07-3131	53.8	1	53.0	1	3	1.7	37	1.8	15.7	33.6	19.3
9	LS08-5837	48.3	7	47.3	6	2	1.8	36	1.9	14.7	34.3	18.6

2013 SCN UNIFORM TEST IV

Yield (bu/a)

		Brownstown IL	Carbondale IL	Butlerville IN	Manhattan KS	Clarkton MO
	SCN HG Type	2.5.7	I	I	2.5.7	1.2.5.7
	Strain					
1	LD06-7620	51.5	60.9	46.9	66.5	26.0
2	IA4005	53.4	60.8	40.3	41.0	21.7
3	LD00- 2817P	45.0	59.2	47.7	60.3	33.5
4	LD07-3395bf	54.3	60.7	50.4	66.4	26.7
5	LD09-12184	47.5	58.2	57.1	68.5	21.6
6	LS07-2935	41.8	61.2	51.3	63.6	29.2
7	LS07-3125	45.7	60.5	47.8	63.6	25.3
8	LS07-3131	42.1	58.9	54.5	69.5	26.0
9	LS08-5837	42.9	61.0	39.1	54.5	19.3
10	LS09-1527	49.7	60.4	54.9	61.2	29.5
11	LS09-1803	51.1	60.7	51.6	61.8	32.0
12	LS09-2342	51.3	60.2	50.1	61.4	22.1
13	LS09-2655	53.0	61.2	51.7	61.9	23.3
14	LS09-2659	50.6	60.6	51.7	63.6	24.3
15	LS09-2722	47.7	57.9	57.7	59.1	27.4
	Average	48.5	60.2	50.2	61.4	25.9
	LSD(.05)	8.1	1.7	7.0	6.0	33.5
	C.V. %	8.2	1.8	8.4	7.0	17.4
	Replications	2	3	3	3	3
	Row width (in.)	30	30	30	30	30

2013 SCN UNIFORM TEST IV

Yield (bu/a)

		Urbana IL	Ottawa KS	Columbia MO	Portage-ville MO	Jackson TN
	SCN HG Type	NI	NI	NI	NI	NI
	Strain					
1	LD06-7620	77.6	48.7	66.9	37.7	68.3
2	IA4005	65.2	48.0	59.8	39.2	61.7
3	LD00- 2817P	65.1	40.4	47.4	40.5	67.9
4	LD07-3395bf	69.4	51.8	71.5	43.7	76.4
5	LD09-12184	65.5	50.9	72.5	48.6	69.2
6	LS07-2935	60.2	46.3	63.1	54.8	65.8
7	LS07-3125	56.0	47.3	55.8	42.3	64.0
8	LS07-3131	63.6	44.2	70.5	56.0	72.4
9	LS08-5837	63.7	38.8	57.8	44.9	57.2
10	LS09-1527	71.7	50.0	54.0	55.5	72.3
11	LS09-1803	73.8	46.2	65.5	49.2	65.2
12	LS09-2342	71.0	45.2	63.5	57.1	61.7
13	LS09-2655	73.1	49.3	68.5	50.0	67.4
14	LS09-2659	75.4	47.7	69.6	59.4	65.5
15	LS09-2722	71.8	46.5	69.9	58.1	64.7
	Average	68.2	46.7	63.7	49.1	66.6
	LSD(.05)	11.3	5.0	13.6	9.9	7.9
	C.V. %	8.0	7.7	12.8	9.8	7.1
	Replications	2	3	3	3	3
	Row width (in.)	30	30	30	30	30

2013 SCN UNIFORM TEST IV

Yield (rank)

		Brownstown IL	Carbondale IL	Butlerville IN	Manhattan KS	Clarkton MO
	SCN HG Type	2.5.7	I	I	2.5.7	1.2.5.7
	Strain					
1	LD06-7620	4	4	13	3	7
2	IA4005	2	5	14	15	13
3	LD00- 2817P	12	12	12	12	1
4	LD07-3395bf	1	6	9	4	6
5	LD09-12184	10	14	2	2	14
6	LS07-2935	15	1	8	5	4
7	LS07-3125	11	9	11	5	9
8	LS07-3131	14	13	4	1	7
9	LS08-5837	13	3	15	14	15
10	LS09-1527	8	10	3	11	3
11	LS09-1803	6	6	7	9	2
12	LS09-2342	5	11	10	10	12
13	LS09-2655	3	1	5	8	11
14	LS09-2659	7	8	5	5	10
15	LS09-2722	9	15	1	13	5

2013 SCN UNIFORM TEST IV

Yield (rank)

		Urbana IL	Ottawa KS	Columbia MO	Portage-ville MO	Jackson TN
	SCN HG Type	NI	NI	NI	NI	NI
	Strain					
1	LD06-7620	1	5	7	15	5
2	IA4005	10	6	11	14	13
3	LD00- 2817P	11	14	15	13	6
4	LD07-3395bf	8	1	2	11	1
5	LD09-12184	9	2	1	9	4
6	LS07-2935	14	10	10	6	8
7	LS07-3125	15	8	13	12	12
8	LS07-3131	13	13	3	4	2
9	LS08-5837	12	15	12	10	15
10	LS09-1527	6	3	14	5	3
11	LS09-1803	3	11	8	8	10
12	LS09-2342	7	12	9	3	13
13	LS09-2655	4	4	6	7	7
14	LS09-2659	2	7	5	1	9
15	LS09-2722	5	9	4	2	11

2013 SCN UNIFORM TEST IV

Maturity

		Brownstown IL	Carbondale IL	Butlerville IN	Manhattan KS	Clarkton MO
	SCN HG Type	2.5.7	I	I	2.5.7	1.2.5.7
	Strain					
1	LD06-7620	9/26		10/1	9/25	9/16
2	IA4005	0		0	-2	2
3	LD00- 2817P	2		0	4	11
4	LD07-3395bf	0		0	0	4
5	LD09-12184	0		2	0	5
6	LS07-2935	1		1	4	7
7	LS07-3125	0		2	1	6
8	LS07-3131	2		-2	4	7
9	LS08-5837	4		-1	3	4
10	LS09-1527	4		1	3	6
11	LS09-1803	5		1	4	7
12	LS09-2342	6		0	6	6
13	LS09-2655	6		2	1	7
14	LS09-2659	5		2	2	6
15	LS09-2722	7		4	4	4
	Planted	6/7	5/20	5/29	5/15	5/23

2013 SCN UNIFORM TEST IV

Maturity

		Urbana	Ottawa	Columbia	Portage-ville	Jackson
		IL	KS	MO	MO	TN
	SCN HG Type	NI	NI	NI	NI	NI
	Strain					
1	LD06-7620	9/29		9/28	10/9	9/21
2	IA4005	-2		0	-2	-4
3	LD00- 2817P	1		3	1	0
4	LD07-3395bf	-7		-2	-2	-1
5	LD09-12184	-1		-1	-4	-4
6	LS07-2935	-1		0	-1	1
7	LS07-3125	-4		1	-4	-2
8	LS07-3131	1		2	2	4
9	LS08-5837	3		-1	-5	-4
10	LS09-1527	2		1	2	3
11	LS09-1803	5		4	0	0
12	LS09-2342	-3		-1	3	3
13	LS09-2655	-3		2	2	4
14	LS09-2659	2		6	3	4
15	LS09-2722	3		6	3	3
	Planted	5/15	5/28	5/15	6/14	5/20

2013 SCN UNIFORM TEST IV

Lodging (score)

		Brownstown IL	Carbondale IL	Butlerville IN	Manhattan KS	Clarkton MO
	SCN HG Type	2.5.7	I	I	2.5.7	1.2.5.7
	Strain					
1	LD06-7620	2.0	1.3	1.0	1.3	1.0
2	IA4005	1.5	1.0	1.0	1.0	1.0
3	LD00- 2817P	2.8	2.3	1.0	2.7	1.0
4	LD07-3395bf	1.5	1.0	1.0	1.3	1.0
5	LD09-12184	1.3	3.3	1.0	1.7	1.0
6	LS07-2935	2.3	3.3	1.0	2.7	1.0
7	LS07-3125	1.8	1.3	1.0	1.0	1.0
8	LS07-3131	2.0	2.0	1.0	1.7	1.0
9	LS08-5837	1.5	3.0	1.0	1.3	1.0
10	LS09-1527	2.5	5.0	1.3	2.3	1.0
11	LS09-1803	2.8	5.0	1.5	2.3	2.0
12	LS09-2342	3.0	5.0	1.2	2.3	1.0
13	LS09-2655	1.5	1.3	1.0	1.3	1.0
14	LS09-2659	1.5	1.3	1.0	1.0	1.0
15	LS09-2722	1.5	1.0	1.0	1.0	1.0

2013 SCN UNIFORM TEST IV

Lodging (score)

		Urbana	Ottawa	Columbia	Portage-ville	Jackson
		IL	KS	MO	MO	TN
	SCN HG Type	NI	NI	NI	NI	NI
	Strain					
1	LD06-7620	1.5	1.0	1.5	1.0	1.0
2	IA4005	1.0	1.0	1.5	1.0	1.0
3	LD00- 2817P	1.8	1.0	1.5	1.0	2.0
4	LD07-3395bf	1.0	1.0	1.5	1.0	1.7
5	LD09-12184	2.0	1.0	1.7	1.0	1.7
6	LS07-2935	2.3	1.3	2.3	1.0	2.3
7	LS07-3125	1.8	1.0	1.5	1.0	1.0
8	LS07-3131	1.5	1.0	1.7	1.0	2.0
9	LS08-5837	1.5	1.0	2.2	1.0	2.0
10	LS09-1527	1.8	1.0	1.5	1.0	2.3
11	LS09-1803	2.0	1.3	2.0	1.0	3.0
12	LS09-2342	1.0	1.0	1.7	1.0	3.0
13	LS09-2655	1.0	1.0	1.5	1.0	1.7
14	LS09-2659	1.5	1.0	1.5	1.0	1.7
15	LS09-2722	1.5	1.0	1.5	1.0	1.3

2013 SCN UNIFORM TEST IV

Height (inches)

		Brownstown IL	Carbondale IL	Butlerville IN	Manhattan KS	Clarkton MO
	SCN HG Type	2.5.7	I	I	2.5.7	1.2.5.7
	Strain					
1	LD06-7620	31	38	28	44	22
2	IA4005	29	36	24	36	23
3	LD00- 2817P	35	41	29	46	30
4	LD07-3395bf	28	35	24	35	22
5	LD09-12184	35	43	32	45	25
6	LS07-2935	38	46	36	49	32
7	LS07-3125	32	44	30	48	29
8	LS07-3131	35	43	33	48	26
9	LS08-5837	32	36	32	44	27
10	LS09-1527	36	39	32	45	28
11	LS09-1803	37	38	35	45	31
12	LS09-2342	33	37	32	47	31
13	LS09-2655	33	41	30	47	26
14	LS09-2659	32	38	31	47	27
15	LS09-2722	28	35	28	43	26

2013 SCN UNIFORM TEST IV

Height (inches)

		Urbana	Ottawa	Columbia	Portage-ville	Jackson
		IL	KS	MO	MO	TN
	SCN HG Type	NI	NI	NI	NI	NI
	Strain					
1	LD06-7620	39	29	30	19	28
2	IA4005	34	29	27	19	28
3	LD00- 2817P	39	36	33	23	35
4	LD07-3395bf	34	29	26	20	29
5	LD09-12184	45	36	36	25	36
6	LS07-2935	48	39	39	25	41
7	LS07-3125	44	36	35	22	35
8	LS07-3131	44	35	35	23	35
9	LS08-5837	40	37	34	25	35
10	LS09-1527	40	38	32	28	35
11	LS09-1803	41	39	35	26	38
12	LS09-2342	39	38	34	28	38
13	LS09-2655	41	36	34	25	36
14	LS09-2659	41	37	35	24	36
15	LS09-2722	35	33	31	24	33

2013 SCN UNIFORM TEST IV

Seed Quality (score)

		Brownstown IL	Carbondale IL	Butlerville IN	Manhattan KS	Clarkton MO
	SCN HG Type	2.5.7	I	I	2.5.7	1.2.5.7
	Strain					
1	LD06-7620	1.0	1.7	2.5	2.0	4.0
2	IA4005	1.0	2.3	2.0	2.0	3.0
3	LD00- 2817P	1.0	1.9	2.0	2.0	4.0
4	LD07-3395bf	1.0	1.5	3.0	2.0	4.0
5	LD09-12184	1.0	1.7	1.5	3.0	3.0
6	LS07-2935	1.0	2.3	1.5	4.0	2.0
7	LS07-3125	1.0	2.5	1.0	3.0	3.0
8	LS07-3131	1.0	2.0	1.0	2.0	2.0
9	LS08-5837	1.0	2.3	1.5	3.0	3.0
10	LS09-1527	1.0	1.8	1.5	3.0	3.0
11	LS09-1803	1.0	1.8	1.0	3.0	2.0
12	LS09-2342	1.0	1.8	2.0	3.0	3.0
13	LS09-2655	1.0	2.0	1.5	3.0	4.0
14	LS09-2659	2.0	2.2	2.0	2.0	3.0
15	LS09-2722	1.0	2.5	2.0	2.0	3.0

2013 SCN UNIFORM TEST IV

Seed Quality (score)

		Urbana IL	Ottawa KS	Columbia MO	Portage-ville MO	Jackson TN
	SCN HG Type	NI	NI	NI	NI	NI
	Strain					
1	LD06-7620	1.0	2.0	1.5	4.0	2.0
2	IA4005	1.0	2.0	1.5	4.0	1.3
3	LD00- 2817P	1.0	2.0	1.7	4.0	2.0
4	LD07-3395bf	1.0	2.0	1.7	5.0	2.0
5	LD09-12184	1.0	2.0	1.5	3.0	2.0
6	LS07-2935	1.0	2.0	1.5	3.0	1.0
7	LS07-3125	1.0	1.0	1.7	3.0	1.7
8	LS07-3131	1.0	2.0	1.5	4.0	1.7
9	LS08-5837	2.0	2.0	1.5	3.0	1.7
10	LS09-1527	1.0	2.0	1.7	3.0	1.0
11	LS09-1803	1.0	1.0	1.5	3.0	1.7
12	LS09-2342	1.0	2.0	1.5	4.0	2.0
13	LS09-2655	1.0	2.0	1.5	4.0	3.0
14	LS09-2659	1.0	2.0	1.7	5.0	3.0
15	LS09-2722	1.0	3.0	2.7	4.0	3.0

2013 SCN UNIFORM TEST IV

Seed Weight (g/100)

		Brownstown IL	Carbondale IL	Butlerville IN	Manhattan KS	Clarkton MO
	SCN HG Type	2.5.7	I	I	2.5.7	1.2.5.7
	Strain					
1	LD06-7620	11.3	13.2	12.4	14.1	12.8
2	IA4005	12.9	12.8	13.0	13.6	12.4
3	LD00- 2817P	11.6	15.4	12.3	13.9	13.9
4	LD07-3395bf	14.0	13.8	14.0	15.8	14.9
5	LD09-12184	12.6	14.8	12.4	16.8	13.5
6	LS07-2935	12.0	15.2	14.3	16.8	16.4
7	LS07-3125	11.4	13.7	12.2	14.5	12.2
8	LS07-3131	12.4	13.8	14.9	16.0	14.7
9	LS08-5837	12.2	14.4	12.5	15.2	12.5
10	LS09-1527	15.2	15.7	14.5	16.5	15.0
11	LS09-1803	12.0	14.0	12.9	14.0	13.3
12	LS09-2342	14.1	15.7	14.6	16.8	15.8
13	LS09-2655	15.5	13.4	14.7	17.9	17.4
14	LS09-2659	14.9	13.6	15.0	18.2	16.5
15	LS09-2722	13.6	13.4	14.3	17.9	13.6

2013 SCN UNIFORM TEST IV

Seed Weight (g/100)

		Urbana IL	Ottawa KS	Columbia MO	Portage-ville MO	Jackson TN
	SCN HG Type	NI	NI	NI	NI	NI
	Strain					
1	LD06-7620	14.2	15.8	13.2	18.0	14.8
2	IA4005	14.3	15.1	14.3	16.9	14.0
3	LD00- 2817P	13.7	10.9	13.2	14.8	14.1
4	LD07-3395bf	15.1	15.4	14.7	19.8	16.2
5	LD09-12184	16.1	13.6	14.0	17.6	14.4
6	LS07-2935	14.8	14.6	16.0	17.7	17.7
7	LS07-3125	11.9	12.3	12.7	15.5	13.7
8	LS07-3131	14.9	13.0	14.4	19.5	16.8
9	LS08-5837	15.5	12.0	12.6	17.1	14.7
10	LS09-1527	17.0	14.8	15.8	20.3	18.1
11	LS09-1803	14.7	12.6	12.8	14.8	13.2
12	LS09-2342	17.2	14.1	14.1	21.1	16.0
13	LS09-2655	19.3	15.9	16.7	19.4	18.7
14	LS09-2659	19.3	16.6	16.5	20.1	18.2
15	LS09-2722	20.0	13.3	15.0	19.0	16.4

2013 SCN UNIFORM TEST IV

Protein (%)

		Brownstown IL	Butlerville IN	Manhattan KS	Clarkton MO	Urbana IL	Columbia MO	Jackson TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI
	Strain							
1	LD06-7620	32.6	31.4	34.3	32.7	33.2	32.9	32.7
2	IA4005	33.2	32.8	34.5	30.9	33.4	33.7	33.9
3	LD00- 2817P	32.2	30.9	33.6	30.9	31.8	32.5	33.2
4	LD07-3395bf	33.5	31.1	33.0	30.6	31.7	32.5	32.7
5	LD09-12184	33.4	32.3	35.4	31.9	34.5	33.6	35.4
6	LS07-2935	34.8	32.1	35.0	30.9	33.7	33.5	35.5
7	LS07-3125	34.9	31.0	34.2	30.5	33.9	33.5	33.4
8	LS07-3131	35.6	31.2	34.2	29.4	34.5	34.3	34.1
9	LS08-5837	34.1	31.3	35.3	31.5	34.6	34.6	35.0
10	LS09-1527	34.2	32.0	35.2	31.9	31.9	32.3	33.1
11	LS09-1803	33.4	33.6	34.9	33.3	33.7	33.7	33.0
12	LS09-2342	33.2	31.5	34.8	31.7	33.4	34.6	34.4
13	LS09-2655	33.5	32.6	35.5	34.4	35.4	35.2	35.5
14	LS09-2659	31.6	32.3	35.1	32.3	35.1	35.2	36.8
15	LS09-2722	34.2	33.7	35.8	32.6	35.9	35.3	36.6

2013 SCN UNIFORM TEST IV

Oil (%)

		Brownstown IL	Butlerville IN	Manhattan KS	Clarkton MO	Urbana IL	Columbia MO	Jackson TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI
	Strain							
1	LD06-7620	19.2	20.5	19.7	19.9	18.6	19.0	20.5
2	IA4005	19.6	19.9	19.8	20.9	18.4	18.0	20.1
3	LD00- 2817P	19.8	20.7	20.5	20.5	19.2	19.0	20.8
4	LD07-3395bf	19.6	21.4	20.8	21.5	20.0	19.8	20.2
5	LD09-12184	20.0	20.0	19.7	21.5	18.3	18.3	19.3
6	LS07-2935	18.2	20.4	20.1	21.2	18.5	17.8	20.8
7	LS07-3125	18.9	20.4	20.4	22.5	18.8	18.8	20.9
8	LS07-3131	18.4	20.0	20.1	22.9	18.3	17.9	20.0
9	LS08-5837	18.4	19.9	19.6	21.2	17.4	17.3	18.9
10	LS09-1527	19.5	19.9	19.8	21.0	19.7	19.0	20.7
11	LS09-1803	18.7	18.6	19.3	19.9	18.5	17.7	19.6
12	LS09-2342	20.8	21.0	20.7	22.1	19.8	18.9	21.4
13	LS09-2655	20.1	20.7	20.1	20.8	17.5	18.0	20.0
14	LS09-2659	19.9	20.8	20.1	21.8	17.8	18.0	19.1
15	LS09-2722	19.0	19.7	20.3	20.8	17.5	18.0	20.4

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	Strain	Descriptive code	Parentage
1	LD06-7620	PGbl	IA3023 x LD00- 3309
2	IA4005	WLtbl	IA3023 x IA3025
3	LD00- 2817P	PGibl	Ina x Dwight
4	K11-1336	PTbl	IA3024 x LD04-13265
5	K11-1666	PTbl	IA3024 x LG04-5190
6	K11-1868	P+WGibl/bf	U98-311422 x LG04-5187
7	K11-2006	PLtbl	K03-3825 x LD04-13265
8	K11-2363	PLtbl	435.TCS x LD05-30578a
9	K11-2371	PLtbl	435.TCS x LD04-12754
10	LD10- 3482	PLtbl	LD04-13296 x LD01-5907
11	LD10- 4612	WTblbl	LD05-7565 x LD04-12754
12	LD10- 8610	PLtbl	LD01-5907 x U03-100612
13	LD10- 9409	PLtbl	LD05-8517 x Syngenta 03JR101916
14	LD10- 9434	PLtbl	LD05-8517 x Syngenta 03JR101916
15	LD10- 9491	PLtbl+ibl	LD05-8517 x Syngenta 03JR101916
16	S10-11227	WGbf	S04-8882 X R00-1194F

	Strain	Gen. Comp.	SCN source	Traits
1	LD06-7620	F5	PI88788	1% linolenic
2	IA4005	F4	None	
3	LD00- 2817P	F5	PI88788 / PI437654	
4	K11-1336	F4	PI88788	
5	K11-1666	F4	PI88788	
6	K11-1868	F4	PI88788	
7	K11-2006	F4	PI88788	
8	K11-2363	F4	PI88788	
9	K11-2371	F4	PI88788	
10	LD10- 3482	F5	PI88788 / PI437654	
11	LD10- 4612	F5	PI88788	
12	LD10- 8610	F5	PI88788 / PI437654	
13	LD10- 9409	F5	PI88788	
14	LD10- 9434	F5	PI88788	
15	LD10- 9491	F5	PI88788	
16	S10-11227	F4	PI437654	

2011 SCN PRELIMINARY TEST IV

		IL SCN screen			
		HG Type 0		HG Type 2.5.7	
	Strain	FI	rating	FI	rating
1	LD06-7620	6	HR	52	LR
2	IA4005	63	NR	65	NR
3	LD00- 2817P	0	HR	4	HR
4	K11-1336	5	HR	50	LR
5	K11-1666	3	HR	59	LR
6	K11-1868	6	HR	61	NR
7	K11-2006	9	HR	63	NR
8	K11-2363	6	HR	63	NR
9	K11-2371	2	HR	68	NR
10	LD10- 3482	1	HR	66	NR
11	LD10- 4612	4	HR	66	NR
12	LD10- 8610	1	HR	35	**
13	LD10- 9409	2	HR	58	LR
14	LD10- 9434	2	HR	63	**
15	LD10- 9491	3	HR	63	NR
16	S10-11227	37	**	33	MR

**rep data too variable to rate

2013 SCN PRELIMINARY TEST IV

Summary

	Strain	Yield: Infested bu/a	Yield: Infested rank	Yield: Non-infested bu/a	Yield: Non-infested rank	Maturity date	Lodging score	Height inches	Seed: quality score	Seed: weight g/100	Seed: protein @13%	Seed: oil @13%
	Location	4		4		6	8	8	8	8	6	6
1	LD06-7620	53.9	10	63.6	1	9/26	1.5	33	2.0	13.9	33.2	19.3
2	IA4005	47.6	16	54.2	15	-3	1.2	31	2.0	13.6	33.9	19.2
3	LD00- 2817P	54.5	9	57.1	10	1	1.9	37	2.0	13.0	32.7	19.4
4	K11-1336	50.0	15	55.7	12	-6	2.2	34	2.7	13.0	33.7	19.9
5	K11-1666	51.4	12	59.4	6	-8	1.6	33	2.1	15.9	33.3	19.9
6	K11-1868	55.9	4	60.4	4	-4	1.2	34	2.1	15.9	35.1	18.6
7	K11-2006	55.3	6	51.6	16	1	1.3	33	1.7	14.6	34.2	18.7
8	K11-2363	57.3	1	58.6	7	-1	1.2	30	1.7	15.2	33.2	19.7
9	K11-2371	55.8	5	60.9	3	-3	1.3	34	1.6	13.6	34.5	19.0
10	LD10- 3482	52.9	11	63.1	2	-3	1.1	31	2.1	15.1	33.8	19.8
11	LD10- 4612	54.7	8	55.2	13	-3	1.8	34	1.6	13.9	33.2	19.3
12	LD10- 8610	55.2	7	57.0	11	-7	1.4	31	2.3	14.1	33.6	19.7
13	LD10- 9409	56.8	2	58.5	8	-5	1.5	33	2.0	13.8	33.5	19.7
14	LD10- 9434	56.7	3	60.3	5	-6	1.2	32	1.8	13.0	32.7	20.3
15	LD10- 9491	50.5	13	57.2	9	-7	1.3	32	2.0	13.4	33.0	20.4
16	S10-11227	50.4	14	54.3	14	0	1.6	37	1.8	12.9	33.9	19.5

2013 SCN PRELIMINARY TEST IV

Yield (bu/a)

		Browns-town IL	Carbondale IL	Manhattan KS	Clarkton MO	Urbana IL	Ottawa KS	Columbia MO	Jackson TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain								
1	LD06-7620	51.5	60.7	62.7	40.5	77.6	40.4	66.2	70.1
2	IA4005	53.4	61.2	35.7	40.2	65.2	42.0	53.7	55.9
3	LD00- 2817P	45.0	60.4	54.8	57.9	65.1	40.9	56.2	66.1
4	K11-1336	41.7	60.2	48.7	49.2	60.6	40.7	62.8	58.8
5	K11-1666	48.6	60.9	55.6	40.6	71.1	45.2	67.0	54.1
6	K11-1868	53.7	60.2	52.5	57.2	74.7	46.8	64.1	56.1
7	K11-2006	41.0	61.3	60.4	58.5	56.4	43.0	48.8	58.2
8	K11-2363	54.8	60.4	61.0	53.1	71.4	39.1	56.8	67.2
9	K11-2371	57.1	61.0	61.0	44.2	80.2	39.7	60.5	63.2
10	LD10- 3482	51.1	55.2	61.4	43.9	74.0	44.3	66.9	67.1
11	LD10- 4612	45.5	57.7	65.2	50.5	64.4	45.5	55.9	54.8
12	LD10- 8610	49.2	60.7	62.4	48.5	64.2	43.1	59.8	60.8
13	LD10- 9409	49.7	60.8	59.7	56.8	72.9	35.7	63.9	61.3
14	LD10- 9434	49.1	59.8	68.2	49.8	74.2	44.0	66.5	56.4
15	LD10- 9491	44.5	60.9	53.5	43.2	73.0	38.9	57.4	59.3
16	S10-11227	36.8	58.7	54.3	51.9	62.3	40.5	51.0	63.5
	Average	48.3	60.0	57.3	49.1	69.2	41.9	59.8	60.8
	LSD(.05)	8.1	1.4	9.0	17.5	11.3	3.4	10.1	11.6
	C.V. %	8.2	2.6	9.0	22.4	8.0	4.5	10.2	8.9
	Replications	2	2	2	2	2	2	3	2
	Row width (in.)	30	30	30	30	30	30	30	30

2013 SCN PRELIMINARY TEST IV

Yield (rank)

		Browns-town	Carbondale	Manhattan	Clarkton	Urbana	Ottawa	Columbia	Jackson
		IL	IL	KS	MO	IL	KS	MO	TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain								
1	LD06-7620	5	7	3	15	2	12	4	1
2	IA4005	4	2	16	16	10	8	14	14
3	LD00- 2817P	12	9	11	2	11	9	12	4
4	K11-1336	14	11	15	9	15	10	7	10
5	K11-1666	10	4	10	14	9	3	1	16
6	K11-1868	3	11	14	3	3	1	5	13
7	K11-2006	15	1	8	1	16	7	16	11
8	K11-2363	2	9	6	5	8	14	11	2
9	K11-2371	1	3	6	11	1	13	8	6
10	LD10- 3482	6	16	5	12	5	4	2	3
11	LD10- 4612	11	15	2	7	12	2	13	15
12	LD10- 8610	8	7	4	10	13	6	9	8
13	LD10- 9409	7	6	9	4	7	16	6	7
14	LD10- 9434	9	13	1	8	4	5	3	12
15	LD10- 9491	13	4	13	13	6	15	10	9
16	S10-11227	16	14	12	6	14	11	15	5

2013 SCN PRELIMINARY TEST IV

Maturity

		Browns-town IL	Carbondale IL	Manhattan KS	Clarkton MO	Urbana IL	Ottawa KS	Columbia MO	Jackson TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain								
1	LD06-7620	9/26		9/27	9/23	9/29		9/25	9/25
2	IA4005	0		-5	-3	-2		-1	-4
3	LD00- 2817P	2		1	1	1		1	-2
4	K11-1336	-4		-9	-3	-8		-10	-5
5	K11-1666	-5		-9	-3	-9		-12	-12
6	K11-1868	1		-4	0	-3		-7	-9
7	K11-2006	3		3	0	-1		5	-4
8	K11-2363	1		-1	-2	-1		-1	-5
9	K11-2371	0		0	-4	-2		-5	-8
10	LD10- 3482	1		-4	-1	-7		-3	-4
11	LD10- 4612	-1		1	-3	-3		-2	-12
12	LD10- 8610	-2		-8	-3	-10		-10	-12
13	LD10- 9409	-2		-2	-2	-5		-5	-12
14	LD10- 9434	-2		-2	-4	-4		-11	-12
15	LD10- 9491	-5		-6	-5	-7		-9	-12
16	S10-11227	1		3	-1	-3		3	-2
	Planted	6/7	5/20	5/15	5/23	5/15	5/28	5/15	5/20

2013 SCN PRELIMINARY TEST IV

Lodging (score)

		Browns-town IL	Carbondale IL	Manhattan KS	Clarkton MO	Urbana IL	Ottawa KS	Columbia MO	Jackson TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain								
1	LD06-7620	2.0	2.0	1.0	1.0	1.5	1.0	1.5	2.0
2	IA4005	1.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5
3	LD00- 2817P	2.8	2.0	2.0	2.0	1.8	1.0	1.8	2.0
4	K11-1336	1.8	4.0	3.0	1.0	2.3	1.5	1.5	2.5
5	K11-1666	1.5	1.5	2.0	2.0	1.5	1.0	1.5	2.0
6	K11-1868	1.0	1.5	1.0	1.0	1.3	1.0	1.5	1.0
7	K11-2006	1.5	1.0	1.0	2.0	1.0	1.0	1.5	1.0
8	K11-2363	1.5	1.0	1.0	1.0	1.5	1.0	1.5	1.0
9	K11-2371	1.0	1.5	1.0	1.0	1.8	1.0	1.5	1.5
10	LD10- 3482	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0
11	LD10- 4612	2.0	2.5	1.5	2.0	1.5	1.0	1.5	2.0
12	LD10- 8610	1.5	1.5	1.5	1.0	1.5	1.0	1.5	2.0
13	LD10- 9409	1.5	1.0	1.0	2.0	1.8	1.0	1.5	2.0
14	LD10- 9434	1.0	1.0	1.0	1.0	1.3	1.0	1.5	1.5
15	LD10- 9491	1.5	1.0	1.0	1.0	1.5	1.0	1.5	2.0
16	S10-11227	1.5	2.0	1.0	2.0	1.5	1.0	1.5	2.0

2013 SCN PRELIMINARY TEST IV

Height (inches)

		Browns-town IL	Carbondale IL	Manhattan KS	Clarkton MO	Urbana IL	Ottawa KS	Columbia MO	Jackson TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain								
1	LD06-7620	31	35	42	28	39	29	29	33
2	IA4005	29	32	39	27	34	28	27	29
3	LD00- 2817P	35	38	47	34	39	35	34	37
4	K11-1336	32	31	43	28	39	34	32	37
5	K11-1666	32	30	39	31	39	31	29	33
6	K11-1868	32	34	43	31	40	32	31	28
7	K11-2006	29	35	39	31	38	31	28	31
8	K11-2363	27	30	41	26	33	29	26	29
9	K11-2371	32	35	41	29	39	31	30	32
10	LD10- 3482	29	33	37	25	36	31	29	30
11	LD10- 4612	33	33	40	31	37	35	30	33
12	LD10- 8610	30	33	39	28	34	30	28	30
13	LD10- 9409	33	34	39	28	37	31	31	31
14	LD10- 9434	32	34	39	27	38	31	29	30
15	LD10- 9491	31	34	40	26	37	29	30	32
16	S10-11227	33	40	45	35	42	36	28	38

2013 SCN PRELIMINARY TEST IV

Seed Quality (score)

		Browns-town IL	Carbondale IL	Manhattan KS	Clarkton MO	Urbana IL	Ottawa KS	Columbia MO	Jackson TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain								
1	LD06-7620	1.0	2.2	2.0	3.0	1.0	3.0	1.2	2.5
2	IA4005	1.0	2.0	2.0	4.0	1.0	3.0	1.3	2.0
3	LD00- 2817P	1.0	1.7	3.0	3.0	1.0	2.0	1.5	3.0
4	K11-1336	3.0	2.0	3.0	4.0	2.0	3.0	1.7	2.5
5	K11-1666	1.0	2.3	3.0	3.0	1.0	3.0	1.5	2.0
6	K11-1868	2.0	2.0	3.0	3.0	1.0	2.0	1.5	2.0
7	K11-2006	1.0	1.3	3.0	3.0	1.0	2.0	1.5	1.0
8	K11-2363	1.0	1.3	3.0	2.0	1.0	2.0	1.5	2.0
9	K11-2371	1.0	1.5	3.0	2.0	1.0	2.0	1.5	1.0
10	LD10- 3482	1.0	2.5	3.0	3.0	2.0	2.0	1.5	2.0
11	LD10- 4612	1.0	1.5	2.0	2.0	1.0	2.0	1.5	1.5
12	LD10- 8610	1.0	2.3	3.0	3.0	2.0	3.0	1.5	2.5
13	LD10- 9409	1.0	2.3	3.0	3.0	1.0	2.0	1.5	2.0
14	LD10- 9434	1.0	2.0	2.0	3.0	1.0	2.0	1.5	2.0
15	LD10- 9491	1.0	1.7	3.0	3.0	1.0	3.0	1.5	2.0
16	S10-11227	1.0	2.0	2.0	3.0	1.0	2.0	1.5	1.5

2013 SCN PRELIMINARY TEST IV

Seed Weight (g/100)

		Browns-town IL	Carbondale IL	Manhattan KS	Clarkton MO	Urbana IL	Ottawa KS	Columbia MO	Jackson TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain								
1	LD06-7620	11.3	13.2	14.2	15.7	14.2	14.5	13.0	15.0
2	IA4005	12.9	12.2	13.4	13.0	14.3	15.4	13.1	14.9
3	LD00- 2817P	11.6	14.9	12.3	13.9	13.7	11.4	11.4	15.0
4	K11-1336	12.1	13.5	13.9	15.0	12.0	13.1	11.3	13.3
5	K11-1666	14.7	14.6	17.8	19.2	16.2	15.4	14.2	15.5
6	K11-1868	15.8	12.2	15.8	19.5	17.0	15.6	14.1	17.1
7	K11-2006	13.5	13.3	14.1	19.0	13.7	14.0	13.7	15.9
8	K11-2363	16.0	12.6	15.0	17.3	16.8	13.3	13.8	16.5
9	K11-2371	13.2	12.0	14.3	14.6	14.4	13.8	11.7	14.7
10	LD10- 3482	14.5	15.8	15.8	15.6	15.9	13.8	14.1	15.6
11	LD10- 4612	13.0	14.8	13.8	14.8	13.5	13.4	13.0	14.8
12	LD10- 8610	13.6	14.1	14.1	17.1	14.1	13.1	12.3	14.2
13	LD10- 9409	12.6	13.6	14.9	16.4	14.3	12.2	12.2	14.4
14	LD10- 9434	11.6	12.9	13.2	14.3	13.5	12.8	12.0	14.0
15	LD10- 9491	12.2	13.9	13.7	13.6	13.7	12.6	12.3	15.1
16	S10-11227	10.0	14.1	13.4	15.9	12.0	11.6	12.0	14.6

2013 SCN PRELIMINARY TEST IV

Protein (%)

		Browns-town IL	Carbondale IL	Manhattan KS	Clarkton MO	Urbana IL	Ottawa KS	Columbia MO	Jackson TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain								
1	LD06-7620	32.6		34.0	32.5	33.2		32.9	33.8
2	IA4005	33.2		34.7	31.7	33.4		34.6	35.7
3	LD00- 2817P	32.2		33.8	32.3	31.8		33.6	32.4
4	K11-1336	34.6		34.0	32.3	33.3		33.8	34.3
5	K11-1666	33.0		35.4	32.2	32.4		33.4	33.6
6	K11-1868	34.3			37.2	35.1		34.1	34.8
7	K11-2006	34.8		35.1	35.4	33.1		34.0	32.8
8	K11-2363	34.0		34.1	33.1	32.1		33.3	32.6
9	K11-2371	34.3		35.6	33.6	34.5		34.3	34.5
10	LD10- 3482	32.4		34.3	34.0	34.5		33.8	33.7
11	LD10- 4612	33.1		33.9	33.2	33.2		34.0	32.1
12	LD10- 8610			32.9	33.7	34.4		33.2	34.0
13	LD10- 9409			33.9	34.6	32.9		33.2	33.2
14	LD10- 9434	32.7		33.4	31.7	32.5		33.0	33.0
15	LD10- 9491	33.3		33.8	30.9	34.2		32.8	33.1
16	S10-11227	32.2		34.5	35.1	34.5		33.7	33.5

2013 SCN PRELIMINARY TEST IV

Oil (%)

		Browns-town IL	Carbondale IL	Manhattan KS	Clarkton MO	Urbana IL	Ottawa KS	Columbia MO	Jackson TN
	SCN HG Type	2.5.7	I	2.5.7	1.2.5.7	NI	NI	NI	NI
	Strain								
1	LD06-7620	19.2		19.8	20.1	18.6		18.0	20.2
2	IA4005	19.6		19.7	20.9	18.4		17.5	19.0
3	LD00- 2817P	19.8		19.8	20.4	19.2		17.0	20.1
4	K11-1336	19.0		20.8	21.6	19.7		18.5	19.9
5	K11-1666	20.4		20.1	20.8	19.5		17.9	20.6
6	K11-1868	18.8			18.3	18.0		17.8	19.9
7	K11-2006	18.6		19.3	19.0	18.4		16.8	20.0
8	K11-2363	19.2		20.0	20.7	19.6		18.6	20.5
9	K11-2371	18.6		19.5	20.4	18.4		17.2	20.1
10	LD10- 3482	20.5		20.1	20.4	18.6		18.6	20.7
11	LD10- 4612	19.5		19.8	20.5	18.6		17.4	19.8
12	LD10- 8610			20.5	19.7	18.8		18.5	21.0
13	LD10- 9409			20.3	19.8	19.3		18.3	20.7
14	LD10- 9434	20.6		19.9	21.6	19.4		18.8	21.4
15	LD10- 9491	20.4		21.1	22.2	18.8		18.6	21.4
16	S10-11227	20.3		20.0	20.3	18.5		17.7	20.0