

2018 SCN PRELIMINARY TEST IIA

Strain	FPhlm	Parentage	Gen. Comp.	SCN res source	Traits
1 IA2102	WGy	A04-545045 x AgriPro 98180-A01-06131	F4	None	
2 IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024	F5	PI 88788	
3 LD02-4485	PGbf	M90-184111 x IA3010	F5	PI 88788	
4 U11-920017	PLtbr	HS5-3417 x LD02-4485	F6	None	Rps
5 E16184	PGy	S20-20 x E07051	F5	PI 88788	
6 E16186	PGbf	S20-20 x E07051	F5	PI 88788	
7 E16265	PGibl	E13902 x E07051	F5	PI 88788	
8 E16266	PGibl	E13902 x E07051	F5	PI 88788	
9 E16267	PGibl	E13902 x E07051	F5	PI 88788	
10 E16379	P+WGbf	E07051 x E06381	F5	PI 88788	
11 E16380	WGbf	E07051 x E10174	F5	PI 88788	
12 E16387	PGy+bf	E07051 x E10175	F5	PI 88788	
13 E16398	PGy+ibl	E10175 x E07051	F5	PI 88788	
14 LD15-1350	WLTy+br	WN0902577 x LD08-3994	F5	PI 88788	
15 LD15-6268	PLt+Gbl+br+bf+ibl	AR10-205011 x LD10-10226	F5	PI 88788	
16 LD15-6280	PMbf+br	AR10-205011 x LD10-10226	F5	PI 88788	
17 LD16-4425a	PMbf+br	AR10-205011 x LDX11033a	F5	PI 88788	Rag 1+2
18 LD16-4429a	P+Wtbl	AR10-205011 x LDX11050a	F5	PI 88788	Rag 1+2
19 LD16-5724a	PGgr	LD10-10226 x LDX11050a	F5	PI 88788	Rag 1+2
20 ORC 5317N	PGy	Kenjiangdou 43 x XC 2211	F4	PI 88788	Food-grade
21 ORC 5517N	WT+Lty	RCAT 1005 x S23-T5	F4	PI 88788	Food-grade

Entry	IL SCN screening										ISU IDC	ISU IDC
	cyst counts			HG 0		cyst counts			HG 2.5.7		AnNutri	Bruner
	rep1	rep2	rep3	FI	rating	rep1	rep2	rep3	FI	rating	score	score
1 IA2102	30	42	38	12	R	122	135	138	65	NR	3.0	2.5
2 IA1022 (SCN)	61	58	94	24	R	103	114	113	54	LR	3.3	1.5
3 LD02-4485	46	10	31	10	R	133	123	116	61	NR	3.0	1.3
4 U11-920017	180	154	171	56	LR	180	137	122	72	NR	2.0	1.8
5 E16184	35	36	44	13	R	150	128	128	67	NR	2.8	2.0
6 E16186	21	31	15	16	R	136	169	152	75	NR	3.0	1.5
7 E16265	46	61	34	16	R	56	84	96	39	MR	3.3	2.5
8 E16266	60	25	16	11	R	59	174	166	66	NR	3.3	2.0
9 E16267	39	27	7	8	HR	106	151	144	66	NR	2.5	1.0
10 E16379	4	6	58	8	HR	192	98	152	73	NR	3.5	3.0
11 E16380	27	52	10	10	R	123	161	154	72	NR	4.0	3.0
12 E16387	32	79	36	16	R	136	123	135	65	NR	3.3	2.8
13 E16398	20	2	3	6	HR	98	101	107	50	LR	.	3.0
14 LD15-1350	46	37	11	10	R	115	147	147	67	NR	3.5	1.5
15 LD15-6268	59	24	34	13	R	222	195	79	81	NR	2.0	2.3
16 LD15-6280	26	42	22	10	R	169	101	156	70	NR	4.0	1.8
17 LD16-4425a	72	57	33	18	R	108	138	128	61	NR	1.8	1.5
18 LD16-4429a	20	18	27	7	HR	65	158	159	63	NR	3.0	2.0
19 LD16-5724a	56	72	86	24	R	88	125	.	52	LR	1.5	1.8
20 ORC 5317N	63	89	77	25	MR	.	119	128	61	NR	3.0	1.5
21 ORC 5517N	88	33	26	16	R	153	138	141	51	LR	.	1.5

Mean: 2.9 2.0  
LSD value: 0.8 0.9  
CV (%): 12.3 20.8



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Yield (rank)

SCN HG Type	Ames	Moorhead	Pontiac	Urbana	Decatur	Lamberton	Fairfax	Waseca	Bellwood
	IA	IA	IL	IL	MI	MN	MN	MN	NE
	2.5.7	2.5.7	2.5.7	2.5.7	Inf	Inf	2.5.7	Inf	Inf
Strain									
1 IA2102	8	12	6	8	5	8	7	18	3
2 IA1022 (SCN)	18	14	13	20	21	11	4	9	21
3 LD02-4485	11	13	3	2	4	4	5	7	6
4 U11-920017	5	16	1	1	18	1	21	12	5
5 E16184	4	7	9	3	6	19	18	17	16
6 E16186	11	11	14	10	1	21	8	19	4
7 E16265	6	3	11	14	13	18	14	15	18
8 E16266	17	1	15	13	14	2	13	16	19
9 E16267	16	4	19	21	3	3	19	14	9
10 E16379	14	15	17	17	9	20	9	5	13
11 E16380	3	21	16	6	7	15	16	2	12
12 E16387	10	19	18	15	11	16	20	4	20
13 E16398	20	18	8	4	20	12	15	20	10
14 LD15-1350	7	8	12	7	15	13	10	3	14
15 LD15-6268	1	6	2	5	2	9	6	11	2
16 LD15-6280	2	10	4	9	8	10	2	10	8
17 LD16-4425a	19	9	10	19	19	14	12	8	11
18 LD16-4429a	9	20	6	12	12	17	3	6	1
19 LD16-5724a	15	5	5	11	17	6	11	1	7
20 ORC 5317N	21	2	21	18	10	7	17	21	15
21 ORC 5517N	13	17	20	16	16	5	1	13	17

Maturity

SCN HG Type	Ames	Moorhead	Pontiac	Urbana	Decatur	Lamberton	Fairfax	Waseca	Bellwood
	IA	IA	IL	IL	MI	MN	MN	MN	NE
	2.5.7	2.5.7	2.5.7	2.5.7	Inf	Inf	2.5.7	Inf	Inf
Strain									
1 IA2102	9/16		9/03	8/31		10/3	9/30	9/26	
2 IA1022 (SCN)	-9		-8	-10		-4	-11	-11	
3 LD02-4485	0		-1	2		-1	-3	-2	
4 U11-920017	1		1	2		1	2	0	
5 E16184	10		9	10		1	11	0	
6 E16186	8		3	8		1	9	-2	
7 E16265	7		3	7		-1	3	5	
8 E16266	2		1	2		-4	-3	-7	
9 E16267	2		1	1		-2	-3	-2	
10 E16379	11		9	11		1	10	9	
11 E16380	.		10	10		1	11	11	
12 E16387	3		8	8		1	11	9	
13 E16398	10		9	12		0	10	-2	
14 LD15-1350	-2		0	2		-5	-3	0	
15 LD15-6268	-1		1	1		-1	1	2	
16 LD15-6280	2		3	4		1	2	6	
17 LD16-4425a	-4		-1	1		-3	-1	2	
18 LD16-4429a	-3		1	1		-4	2	0	
19 LD16-5724a	-2		-1	1		-3	-1	-1	
20 ORC 5317N	-4		-6	-7		-5	-4	-9	
21 ORC 5517N	1		-1	1		-4	2	-2	
Planted	5/14	5/11	5/08	5/08	4/30	5/16	5/16	5/07	5/09

## 2018 SCN PRELIMINARY TEST IIA

## Lodging (score)

SCN HG Type	Ames	Moorhead	Pontiac	Urbana	Decatur	Lamberton	Fairfax	Waseca	Bellwood
	IA	IA	IL	IL	MI	MN	MN	MN	NE
SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	Inf	Inf	2.5.7	Inf	Inf
Strain									
1 IA2102	4.0	3.0	1.8	1.5		4.0	1.0	1.0	4.5
2 IA1022 (SCN)	3.5	3.5	2.0	1.0		3.0	1.5	1.0	2.0
3 LD02-4485	3.0	3.5	1.8	1.3		2.5	1.0	1.0	3.5
4 U11-920017	3.0	4.0	1.3	1.0		3.0	1.0	1.0	4.0
5 E16184	3.0	2.0	1.8	1.3		3.0	1.0	1.0	1.5
6 E16186	2.0	2.5	2.0	1.0		2.5	1.0	1.0	2.5
7 E16265	2.5	2.5	1.0	1.0		1.5	1.0	1.0	1.5
8 E16266	2.0	2.0	1.3	1.0		1.5	1.0	1.0	3.0
9 E16267	2.5	2.5	1.0	1.0		1.5	1.0	1.0	3.5
10 E16379	3.0	3.0	1.5	1.0		3.0	1.0	1.0	2.5
11 E16380	1.0	2.5	1.0	1.0		1.5	1.0	1.0	2.0
12 E16387	3.0	4.0	1.0	1.0		3.0	1.0	1.0	3.0
13 E16398	3.0	3.0	1.8	1.0		3.0	1.0	1.0	1.5
14 LD15-1350	4.5	3.5	1.3	1.0		2.0	1.0	1.0	2.5
15 LD15-6268	3.0	2.5	1.3	1.0		2.5	1.0	1.0	2.0
16 LD15-6280	2.0	2.5	1.3	1.0		2.5	1.0	1.0	4.0
17 LD16-4425a	4.0	4.0	1.0	1.0		4.5	1.0	1.0	1.5
18 LD16-4429a	4.0	2.5	1.0	1.0		1.5	1.0	1.0	2.5
19 LD16-5724a	2.0	2.5	1.0	1.0		1.0	1.0	1.0	2.0
20 ORC 5317N	3.0	2.0	1.3	1.0		1.0	1.0	1.0	2.0
21 ORC 5517N	3.5	3.5	1.0	1.0		1.0	1.0	1.0	1.5

## Height (inches)

SCN HG Type	Ames	Moorhead	Pontiac	Urbana	Decatur	Lamberton	Fairfax	Waseca	Bellwood
	IA	IA	IL	IL	MI	MN	MN	MN	NE
SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	Inf	Inf	2.5.7	Inf	Inf
Strain									
1 IA2102	37	45	42	36		37	32	32	29
2 IA1022 (SCN)	33	44	36	29		36	35	25	27
3 LD02-4485	35	49	37	33		34	37	28	34
4 U11-920017	32	46	38	35		36	33	29	30
5 E16184	34	48	40	39		36	35	32	31
6 E16186	38	52	44	42		41	41	35	31
7 E16265	34	44	38	34		37	33	30	32
8 E16266	35	44	35	33		38	30	28	31
9 E16267	33	44	35	31		40	27	29	28
10 E16379	33	46	41	37		43	37	36	33
11 E16380	34	42	38	38		40	33	30	36
12 E16387	36	43	37	37		39	31	32	34
13 E16398	34	44	41	40		39	36	31	31
14 LD15-1350	36	42	39	33		35	34	30	31
15 LD15-6268	36	40	42	35		40	34	32	31
16 LD15-6280	35	42	40	36		38	33	32	29
17 LD16-4425a	33	38	36	30		38	29	32	28
18 LD16-4429a	33	40	38	31		35	30	31	34
19 LD16-5724a	33	41	37	30		35	31	27	29
20 ORC 5317N	29	31	30	28		34	23	24	31
21 ORC 5517N	32	44	38	33		37	35	29	30

## 2018 SCN PRELIMINARY TEST IIA

## Seed Quality (score)

SCN HG Type	Ames	Moorhead	Pontiac	Urbana	Decatur	Lamberton	Fairfax	Waseca	Bellwood
	IA	IA	IL	IL	MI	MN	MN	MN	NE
Strain	2.5.7	2.5.7	2.5.7	2.5.7	Inf	Inf	2.5.7	Inf	Inf
1 IA2102	2.0	1.0	1.0	2.0		1.0	2.0	2.0	2.0
2 IA1022 (SCN)	1.0	2.0	1.0	2.0		1.0	1.0	2.0	2.0
3 LD02-4485	1.0	2.0	2.0	2.0		1.0	1.0	2.0	1.0
4 U11-920017	1.0	1.0	2.0	2.0		1.0	2.0	1.0	1.0
5 E16184	1.0	1.0	2.0	2.0		1.0	3.0	1.0	1.0
6 E16186	2.0	2.0	2.0	2.0		1.0	2.0	1.0	1.0
7 E16265	1.0	2.0	2.0	2.0		1.0	1.0	1.0	1.5
8 E16266	1.0	1.0	2.0	2.0		1.0	2.0	1.0	1.0
9 E16267	1.0	2.0	2.0	1.0		1.0	1.0	1.0	1.5
10 E16379	1.0	1.0	2.0	3.0		1.0	3.0	2.0	2.0
11 E16380	1.0	1.0	3.0	2.0		1.0	2.0	2.0	1.5
12 E16387	1.0	1.0	3.0	3.0		1.0	2.0	2.0	1.5
13 E16398	2.0	1.0	2.0	2.0		1.0	3.0	2.0	1.0
14 LD15-1350	1.0	2.0	2.0	1.0		1.0	1.0	1.0	2.0
15 LD15-6268	1.0	1.0	1.0	1.0		1.0	1.0	2.0	1.5
16 LD15-6280	2.0	1.0	2.0	2.0		1.0	1.0	1.0	2.0
17 LD16-4425a	1.0	1.0	2.0	1.0		1.0	1.0	1.0	2.0
18 LD16-4429a	1.0	2.0	1.0	1.0		1.0	1.0	1.0	1.5
19 LD16-5724a	1.0	1.0	2.0	1.0		1.0	1.0	1.0	1.0
20 ORC 5317N	1.0	1.0	2.0	2.0		1.0	2.0	1.0	2.5
21 ORC 5517N	1.0	3.0	2.0	2.0		1.0	1.0	2.0	1.5

## Seed Weight (g/100)

SCN HG Type	Ames	Moorhead	Pontiac	Urbana	Decatur	Lamberton	Fairfax	Waseca	Bellwood
	IA	IA	IL	IL	MI	MN	MN	MN	NE
Strain	2.5.7	2.5.7	2.5.7	2.5.7	Inf	Inf	2.5.7	Inf	Inf
1 IA2102	16.8	14.9	13.8	16.3		17.6	14.9	15.4	14.8
2 IA1022 (SCN)	15.9	14.4	13.7	13.5		16.3	14.7	15.6	13.3
3 LD02-4485	15.5	14.6	12.9	13.7		15.4	13.3	12.8	14.5
4 U11-920017	17.9	15.0	15.6	15.5		17.4	14.0	15.3	15.6
5 E16184	17.5	14.5	15.1	17.1		18.4	15.4	16.2	14.0
6 E16186	16.2	14.7	13.4	14.8		16.0	15.4	14.7	12.6
7 E16265	18.2	16.9	16.7	18.2		21.2	16.7	19.1	16.3
8 E16266	16.9	18.6	16.2	18.2		19.0	16.8	18.2	15.4
9 E16267	17.1	16.7	16.2	17.7		20.0	17.7	18.8	15.4
10 E16379	17.7	17.2	15.9	17.0		19.8	14.8	17.9	14.3
11 E16380	19.2	16.1	15.9	18.7		20.5	17.9	21.2	14.9
12 E16387	16.8	13.8	13.4	15.0		17.5	14.3	18.8	12.8
13 E16398	18.5	12.5	16.1	17.2		20.0	17.2	18.2	14.7
14 LD15-1350	15.4	14.2	13.1	14.0		16.8	14.1	14.8	13.8
15 LD15-6268	17.9	14.7	15.1	15.9		22.8	16.4	16.8	15.1
16 LD15-6280	15.4	13.2	14.4	14.5		16.6	15.0	15.7	14.5
17 LD16-4425a	15.8	16.5	13.7	13.6		17.5	13.6	14.0	14.8
18 LD16-4429a	15.0	12.9	13.8	14.1		17.7	15.0	16.7	15.0
19 LD16-5724a	15.7	12.5	13.7	14.6		16.1	14.8	15.5	13.6
20 ORC 5317N	17.8	18.4	19.5	20.8		21.1	13.0	18.7	20.4
21 ORC 5517N	17.8	14.4	15.2	16.3		19.9	18.1	18.8	15.7

## 2018 SCN PRELIMINARY TEST IIA

## Protein (%)

SCN HG Type	Ames	Moorhead	Pontiac	Urbana	Decatur	Lamberton	Fairfax	Waseca	Bellwood
	IA	IA	IL	IL	MI	MN	MN	MN	NE
SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	Inf	Inf	2.5.7	Inf	Inf
Strain									
1 IA2102	34.6	32.4	32.9	33.2		34.9	34.6	31.0	35.1
2 IA1022 (SCN)	34.4	32.7	31.6	30.9		33.0	32.8	28.5	33.9
3 LD02-4485	33.4	31.8	29.4	30.7		32.4	33.2	28.8	34.2
4 U11-920017	32.5	31.3	29.6	30.3		32.2	32.2	28.9	33.2
5 E16184	35.1	32.8	32.8	32.7		34.6	34.3	30.0	35.3
6 E16186	36.1	34.7	32.9	34.1		34.6	35.6	31.7	35.0
7 E16265	37.6	36.7	35.2	35.3		36.2	36.9	29.5	36.3
8 E16266	35.3	37.0	33.2	34.9		35.0	36.3	31.0	35.9
9 E16267	35.9	34.2	34.4	36.7		35.1	36.8	29.0	35.6
10 E16379	37.7	37.3	32.9	35.0		35.2	35.9	31.5	35.6
11 E16380	33.9	33.8	32.5	33.5		34.7	34.4	31.0	36.0
12 E16387	34.2	33.8	32.5	32.6		35.0	34.0	29.7	34.8
13 E16398	35.8	33.0	32.7	34.1		35.1	36.0	30.7	35.0
14 LD15-1350	34.8	34.1	32.7	33.8		36.0	34.8	30.7	35.3
15 LD15-6268	37.2	36.5	33.9	34.5		35.4	36.7	31.0	35.7
16 LD15-6280	36.0	34.0	32.9	32.6		35.5	35.1	30.0	36.2
17 LD16-4425a	35.2	34.7	33.4	32.3		35.7	35.4	29.4	35.7
18 LD16-4429a	33.7	34.9	32.2	31.7		35.8	34.8	29.2	36.0
19 LD16-5724a	34.6	32.6	31.3	32.6		33.2	34.6	30.4	34.8
20 ORC 5317N	37.5	34.8	35.5	36.5		35.2	37.8	30.4	37.7
21 ORC 5517N	35.8	34.9	32.7	32.9		35.7	35.6	30.3	35.7

## Oil (%)

SCN HG Type	Ames	Moorhead	Pontiac	Urbana	Decatur	Lamberton	Fairfax	Waseca	Bellwood
	IA	IA	IL	IL	MI	MN	MN	MN	NE
SCN HG Type	2.5.7	2.5.7	2.5.7	2.5.7	Inf	Inf	2.5.7	Inf	Inf
Strain									
1 IA2102	18.1	18.8	17.3	17.6		18.2	16.9	14.9	17.5
2 IA1022 (SCN)	20.1	19.5	19.7	19.8		18.7	18.8	16.9	19.7
3 LD02-4485	18.6	18.7	18.4	18.3		17.7	16.8	15.7	17.7
4 U11-920017	19.2	19.5	19.2	19.3		18.8	18.3	15.9	18.5
5 E16184	18.0	17.8	16.9	17.5		18.7	17.5	15.7	16.9
6 E16186	17.9	17.8	17.5	17.4		18.3	17.4	15.0	17.1
7 E16265	17.2	17.7	16.8	17.0		17.7	17.1	15.6	17.5
8 E16266	17.6	17.1	17.5	16.7		16.9	17.3	15.4	17.3
9 E16267	17.7	18.1	17.3	16.5		18.2	17.4	15.8	17.2
10 E16379	17.9	18.1	18.1	17.5		17.9	17.5	15.7	17.1
11 E16380	18.1	17.4	17.1	16.9		18.3	17.4	15.3	17.4
12 E16387	18.5	17.8	17.4	18.1		17.6	17.9	15.5	17.1
13 E16398	20.2	19.6	19.1	18.3		19.5	18.5	15.7	18.1
14 LD15-1350	19.8	19.9	19.0	18.6		18.3	19.0	15.1	17.0
15 LD15-6268	17.0	16.8	17.1	16.9		17.8	16.5	15.0	17.0
16 LD15-6280	18.5	18.4	18.4	18.9		18.0	17.5	15.4	17.6
17 LD16-4425a	19.1	19.0	18.3	18.8		18.8	17.7	15.6	18.5
18 LD16-4429a	19.1	17.9	18.8	18.7		17.1	18.1	16.1	17.8
19 LD16-5724a	18.5	19.1	18.1	18.0		18.0	17.7	15.6	17.7
20 ORC 5317N	16.6	17.1	16.2	16.2		17.6	15.7	16.4	16.9
21 ORC 5517N	17.1	16.7	17.1	17.4		16.2	16.2	15.5	16.8