

2018 SCN PRELIMINARY TEST IIB

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 AR15-258059	P+WMBf+br	IAR1902 SCN x ND07-4635	F3	Peking	
6 AR17-179001	PTbr	AR08-286003 x RxEF59-70	F5		SDS
7 AR17-179003	WGy	AR09-292004 x ND03-5441	F4		
8 AR17-179012	PMy	AR09-192019 x AR11-113050	F4	PI 438489B / PI 88788	
9 AR17-179022	P+WGy+bf+ibl	AR11-213003 x ND03-5441	F4	PI 438489B / PI 88788	
10 AR17-179026	PGy	AR09-192019 x AR11-113050	F4	PI 438489B / PI 88788	
11 AR17-279010	WGb	AR09-192019 x AR09-291011	F4	PI 507354/Peking/ PI 88788	
12 AR17-279018	PMbl+ibl	AR11-214022 x AR09-191018	F4	Peking	SDS
13 AR17-279022	PMy	AR09-192019 x AR11-113050	F4	PI 438489B / PI 88788	
14 AR17-279024	P+WGy	AR09-292004 x AR09-192019	F4		
15 LD15-456	WGb	HM09-W084 x LD10-10226	F5	PI 88788	
16 LD15-467	WGb	HM09-W084 x LD10-10226	F5	PI 88788	
17 LD15-5170a	PGbf	LD09-10220 x LD12-6623	F5	PI 88788	Rag 1+2
18 U16-915064	PGbf	U09-105007-174 x AR09-191018	F5	Peking	Rps
19 U16-915073	PGbf	U09-105007-174 x AR09-191018	F5	Peking	Rps
20 U16-918088	WLTbl	U11-614119 x AR09-191018	F5	Peking	Rps
21 U16-918097	WLTbr+bl	U11-614119 x AR09-191018	F5	Peking	Rps
22 U16-920087	PGbf+ibl	U11-919011 x AR09-191018	F5	Peking	Rps
23 U16-923137	PLtbl	U11-614119 x AR09-191018	F5	Peking	Rps

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	1.8	1.3
2 IA1022 (SCN)	61	58	94	24	R	103	114	113	54	LR	3.3	1.3
3 LD02-4485	46	10	31	10	R	133	123	116	61	NR	2.5	1.5
4 U11-920017	180	154	171	56	LR	180	137	122	72	NR	1.5	1.3
5 AR15-258059	1	0	2	0	HR	6	3	2	2	HR	2.5	2.3
6 AR17-179001	70	118	69	29	MR	41	47	53	23	R	1.5	1.8
7 AR17-179003	18	2	8	7	HR	80	85	81	40	LR	2.8	2.0
8 AR17-179012	21	16	36	8	HR	61	117	121	49	LR	2.8	1.8
9 AR17-179022	49	28	44	13	R	151	155	107	68	NR	1.5	1.5
10 AR17-179026	16	6	6	3	HR	115	105	92	51	LR	2.0	1.5
11 AR17-279010	40	0	2	5	HR	8	7	9	3	HR	2.3	2.0
12 AR17-279018	16	32	37	9	HR	82	127	112	53	LR	1.3	1.8
13 AR17-279022	37	36	25	11	R	70	113	127	51	LR	3.0	1.5
14 AR17-279024	61	39	45	16	R	128	102	96	54	LR	.	1.3
15 LD15-456	37	3	0	4	HR	97	101	163	59	LR	3.3	3.3
16 LD15-467	3	5	6	3	HR	171	195	186	91	NR	2.0	3.0
17 LD15-5170a	38	24	15	9	HR	114	105	113	55	LR	3.0	2.0
18 U16-915064	66	54	48	40	LR	132	126	111	61	NR	1.0	1.8
19 U16-915073	208	157	111	53	LR	103	2	15	14	**	2.5	.
20 U16-918088	2	4	1	2	HR	122	113	122	59	LR	2.5	1.3
21 U16-918097	17	56	47	13	R	148	85	144	62	NR	2.3	1.5
22 U16-920087	3	0	1	1	HR	38	48	53	23	R	3.3	2.5
23 U16-923137	107	56	83	27	MR	56	117	136	51	LR	2.0	1.3

\*\* rep data too variable to rate

Mean: 2.3 1.8  
LSD value: 1.1 1.3  
CV (%): 22.7 34.3



2018 SCN PRELIMINARY TEST IIB

Yield (rank)

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	10	1	13	15	12	3	7	12	16
2 IA1022 (SCN)	18	23	21	22	22	12	15	21	21
3 LD02-4485	3	10	3	8	11	4	10	23	5
4 U11-920017	9	19	7	3	21	17	1	18	11
5 AR15-258059	5	8	18	16	2	22	9	14	20
6 AR17-179001	22	9	9	18	14	16	4	17	6
7 AR17-179003	16	15	23	23	13	19	13	8	8
8 AR17-179012	14	17	12	14	17	15	3	10	23
9 AR17-179022	20	16	20	21	7	13	17	20	9
10 AR17-179026	13	2	8	13	10	20	5	6	1
11 AR17-279010	12	4	14	4	5	23	8	4	2
12 AR17-279018	4	14	22	20	18	21	21	16	15
13 AR17-279022	21	7	19	17	16	5	12	12	17
14 AR17-279024	17	20	10	19	15	8	11	19	7
15 LD15-456	1	11	1	2	4	6	2	5	4
16 LD15-467	2	12	2	7	3	1	16	1	10
17 LD15-5170a	11	5	6	11	1	7	19	3	3
18 U16-915064	23	21	11	9	19	2	19	22	13
19 U16-915073	19	22	15	12	20	18	22	15	22
20 U16-918088	15	3	16	6	6	14	6	9	18
21 U16-918097	6	13	5	1	9	9	18	11	19
22 U16-920087	7	6	17	10	8	11	23	7	14
23 U16-923137	8	18	4	5	23	10	14	2	12

Maturity

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	9/19		9/04	8/31		10/1	10/5	9/27	
2 IA1022 (SCN)	-9		-10	-9		-12	-6	-11	
3 LD02-4485	2		-2	4		-3	-2	-6	
4 U11-920017	-4		-1	2		0	-1	-7	
5 AR15-258059	-2		0	1		-3	-4	-1	
6 AR17-179001	-5		-3	-2		-4	-5	-8	
7 AR17-179003	-6		-9	-7		-5	-5	-1	
8 AR17-179012	-7		-2	-1		-7	-6	-2	
9 AR17-179022	-7		-4	1		-5	-5	-1	
10 AR17-179026	-7		-2	-1		-5	-5	-5	
11 AR17-279010	-4		-1	3		-4	-5	-1	
12 AR17-279018	-4		-1	-2		-4	-5	-5	
13 AR17-279022	-8		-2	0		-4	-4	-4	
14 AR17-279024	1		0	-1		1	-4	-4	
15 LD15-456	4		6	3		12	-1	7	
16 LD15-467	1		6	4		12	-1	10	
17 LD15-5170a	2		2	2		6	-2	4	
18 U16-915064	-7		-2	0		-3	-5	-5	
19 U16-915073	-2		-1	3		-2	-4	-5	
20 U16-918088	-6		-1	2		-1	-4	1	
21 U16-918097	1		4	8		9	-1	4	
22 U16-920087	-5		-1	4		0	-1	3	
23 U16-923137	1		0	7		9	-1	3	
Planted	5/14	5/11	5/08	5/08	4/30	5/16	5/28	5/07	5/09

2018 SCN PRELIMINARY TEST IIB

Lodging (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	4.5	3.5	2.0	2.0		2.5	4.0	1.0	3.5
2 IA1022 (SCN)	3.0	3.5	2.0	1.0		1.0	3.5	1.0	3.0
3 LD02-4485	3.0	3.0	1.8	1.3		1.5	3.5	1.0	3.0
4 U11-920017	3.5	3.5	1.0	1.0		1.5	3.0	1.0	2.5
5 AR15-258059	3.5	4.0	1.5	1.0		1.5	2.5	1.0	3.5
6 AR17-179001	4.0	4.0	1.0	1.0		1.5	3.0	1.0	2.5
7 AR17-179003	2.5	3.0	1.3	1.0		1.0	1.5	1.0	2.0
8 AR17-179012	3.0	3.0	1.5	1.0		1.0	1.5	1.0	2.5
9 AR17-179022	4.0	2.5	1.8	1.0		1.5	3.5	1.0	4.0
10 AR17-179026	3.0	3.0	1.0	1.0		1.5	3.0	1.0	2.0
11 AR17-279010	3.5	3.5	1.5	1.0		1.5	2.5	1.0	2.0
12 AR17-279018	3.5	3.5	1.5	1.0		1.5	1.9	1.0	3.5
13 AR17-279022	2.5	3.0	1.3	1.0		1.0	1.0	1.0	2.5
14 AR17-279024	2.5	3.0	1.5	1.0		2.0	3.5	1.0	4.0
15 LD15-456	3.0	2.5	1.5	1.0		1.5	3.5	1.0	2.0
16 LD15-467	2.0	2.5	1.3	1.0		2.0	3.5	1.0	2.0
17 LD15-5170a	3.0	3.0	2.0	1.5		2.0	4.0	1.0	3.0
18 U16-915064	1.5	3.0	1.0	1.0		2.0	1.5	1.0	2.0
19 U16-915073	2.5	3.0	1.5	1.3		2.0	3.5	1.0	2.0
20 U16-918088	3.0	3.5	1.5	1.0		1.5	2.5	1.0	2.5
21 U16-918097	3.0	3.0	2.0	1.5		2.5	4.0	1.0	3.0
22 U16-920087	3.0	3.0	1.5	1.0		2.0	3.0	1.0	3.0
23 U16-923137	2.0	3.0	1.5	1.5		2.0	3.5	1.0	2.0

Height (inches)

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	42	44	40	35		36	40	30	27
2 IA1022 (SCN)	33	39	35	28		29	40	24	34
3 LD02-4485	38	48	38	29		38	42	27	33
4 U11-920017	32	41	39	34		37	38	31	32
5 AR15-258059	34	41	39	31		32	41	31	31
6 AR17-179001	35	41	38	32		31	38	29	31
7 AR17-179003	31	35	32	27		28	42	26	29
8 AR17-179012	32	44	37	33		32	38	33	31
9 AR17-179022	33	47	41	32		35	38	35	30
10 AR17-179026	31	40	38	32		30	36	29	36
11 AR17-279010	32	42	41	33		30	41	31	33
12 AR17-279018	38	45	38	34		33	47	31	30
13 AR17-279022	34	43	39	33		37	40	30	30
14 AR17-279024	32	42	38	32		35	40	30	34
15 LD15-456	35	45	41	37		38	47	32	30
16 LD15-467	33	45	42	37		42	45	32	35
17 LD15-5170a	35	49	42	31		35	46	34	32
18 U16-915064	32	42	38	33		40	43	29	31
19 U16-915073	35	46	42	35		41	43	30	34
20 U16-918088	38	44	39	36		36	41	30	33
21 U16-918097	38	51	43	40		44	43	32	33
22 U16-920087	40	47	43	41		41	46	35	31
23 U16-923137	42	51	44	38		44	46	34	33

## 2018 SCN PRELIMINARY TEST IIB

## 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	1.0	2.0	3.0	2.0		1.0	1.0	1.0	2.0
2 IA1022 (SCN)	2.0	1.0	1.0	2.0		1.0	1.0	1.0	2.0
3 LD02-4485	2.0	2.0	2.0	2.0		1.0	2.0	1.0	2.0
4 U11-920017	1.0	2.0	3.0	2.0		1.0	2.0	1.0	1.0
5 AR15-258059	2.0	2.0	2.0	2.0		1.0	1.0	3.0	2.5
6 AR17-179001	1.0	1.0	3.0	2.0		1.0	1.0	2.0	2.0
7 AR17-179003	2.0	2.0	2.0	2.0		2.0	1.0	2.0	1.0
8 AR17-179012	1.0	2.0	1.0	2.0		1.0	1.0	1.0	1.5
9 AR17-179022	2.0	3.0	2.0	3.0		1.0	1.0	1.0	3.0
10 AR17-179026	1.0	1.0	2.0	2.0		1.0	1.0	1.0	2.0
11 AR17-279010	2.0	1.0	2.0	2.0		1.0	1.0	1.0	2.0
12 AR17-279018	1.0	1.0	2.0	2.0		1.0	1.0	1.0	1.0
13 AR17-279022	1.0	1.0	2.0	1.0		1.0	1.0	1.0	2.0
14 AR17-279024	2.0	2.0	2.0	2.0		3.0	1.0	1.0	2.0
15 LD15-456	1.0	1.0	2.0	2.0		1.0	1.0	1.0	1.5
16 LD15-467	1.0	1.0	2.0	1.0		2.0	2.0	1.0	1.5
17 LD15-5170a	2.0	1.0	2.0	2.0		2.0	1.0	1.0	1.0
18 U16-915064	1.0	1.0	1.0	2.0		1.0	1.0	1.0	2.0
19 U16-915073	1.0	1.0	2.0	1.0		1.0	1.0	1.0	2.0
20 U16-918088	1.0	1.0	3.0	1.0		1.0	1.0	1.0	2.0
21 U16-918097	1.0	1.0	2.0	2.0		2.0	2.0	1.0	2.0
22 U16-920087	2.0	1.0	2.0	2.0		2.0	2.0	1.0	2.5
23 U16-923137	1.0	2.0	2.0	2.0		2.0	2.0	1.0	2.0

## 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	16.4	16.5	13.5	14.8		14.8	18.1	15.1	14.6
2 IA1022 (SCN)	15.6	14.5	13.0	12.4		15.2	16.1	15.1	12.0
3 LD02-4485	15.4	12.4	12.8	12.4		13.1	16.2	12.7	13.6
4 U11-920017	17.2	15.0	14.7	14.5		14.5	16.7	15.3	15.4
5 AR15-258059	15.6	14.2	12.8	13.3		14.0	16.5	15.3	14.0
6 AR17-179001	15.4	12.3	13.8	13.5		14.1	16.8	15.4	12.7
7 AR17-179003	17.6	17.4	14.9	15.6		17.3	19.9	19.0	14.6
8 AR17-179012	16.7	13.5	15.1	14.8		14.9	17.2	16.1	13.0
9 AR17-179022	15.9	13.2	13.9	14.2		13.4	18.4	15.9	15.0
10 AR17-179026	20.6	16.2	15.5	15.2		15.1	18.3	16.3	15.1
11 AR17-279010	15.3	14.5	13.5	13.4		13.9	17.2	15.2	13.5
12 AR17-279018	17.6	15.5	14.3	14.9		14.6	17.4	18.2	12.9
13 AR17-279022	14.8	13.3	14.8	14.5		14.7	16.9	15.6	15.0
14 AR17-279024	16.2	14.1	15.0	15.3		16.4	17.7	15.9	9.7
15 LD15-456	17.2	15.6	15.1	15.4		17.6	18.7	17.5	14.1
16 LD15-467	17.4	15.0	14.3	15.3		17.4	18.6	16.7	14.4
17 LD15-5170a	16.0	15.8	13.6	14.4		16.0	16.6	15.6	12.7
18 U16-915064	15.3	11.8	13.4	13.1		14.5	16.2	13.8	14.9
19 U16-915073	17.6	13.4	14.1	13.6		14.8	17.8	14.6	11.5
20 U16-918088	17.8	17.4	14.6	16.0		17.5	18.4	17.8	15.3
21 U16-918097	17.2	15.0	14.4	14.8		16.6	19.4	16.7	13.8
22 U16-920087	14.7	11.4	12.1	11.9		12.5	14.7	13.8	13.4
23 U16-923137	14.6	11.0	11.3	12.4		13.2	14.5	14.1	12.3

## 2018 SCN PRELIMINARY TEST IIB

## Protein (%)

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	33.9	34.5	32.7	32.8		34.6	35.0	32.1	35.6
2 IA1022 (SCN)	34.7	31.9	31.6	30.4		33.2	33.8	31.6	32.8
3 LD02-4485	32.7	30.4	29.3	30.3		32.5	33.3	30.9	33.1
4 U11-920017	32.6	34.4	29.5	30.0		31.2	31.8	30.1	33.3
5 AR15-258059	34.4	32.5	31.8	32.2		32.6	33.1	32.2	34.5
6 AR17-179001	36.9	34.5	33.9	34.5		36.4	36.4	33.9	36.4
7 AR17-179003	35.2	33.6	34.2	33.1		34.7	35.2	32.2	33.9
8 AR17-179012	36.6	35.3	33.6	34.1		35.7	34.5	33.0	35.6
9 AR17-179022	35.8	34.8	32.4	32.1		33.9	33.1	32.6	33.4
10 AR17-179026	36.8	34.7	34.6	33.3		36.1	35.2	33.2	36.2
11 AR17-279010	34.3	34.2	32.7	32.8		33.6	34.8	31.3	35.6
12 AR17-279018	35.4	34.1	33.2	33.6		36.3	34.9	32.9	34.1
13 AR17-279022	35.2	33.4	34.3	33.8		34.5	35.6	31.8	35.3
14 AR17-279024	34.3	33.0	32.3	33.2		34.5	32.5	32.4	35.2
15 LD15-456	35.5	34.5	32.9	32.8		36.3	34.4	32.3	35.6
16 LD15-467	36.2	34.0	32.6	31.9		37.6	35.5	32.0	34.4
17 LD15-5170a	33.9	34.0	32.3	31.9		35.4	35.1	30.5	33.8
18 U16-915064	34.2	31.1	31.1	30.2		32.7	33.7	29.3	33.6
19 U16-915073	36.8	33.1	31.4	32.3		35.4	34.7	29.8	34.9
20 U16-918088	35.1	32.0	32.3	32.7		35.8	34.1	30.8	35.0
21 U16-918097	32.3	31.4	30.7	31.4		33.5	33.1	29.5	34.8
22 U16-920087	34.1	31.0	30.7	29.6		34.0	34.4	31.1	36.4
23 U16-923137	31.6	31.4	29.9	30.3		33.2	32.5	30.5	32.9

## Oil (%)

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	18.8	18.6	17.8	17.9		17.5	18.3	17.8	17.2
2 IA1022 (SCN)	19.8	20.0	19.5	19.7		19.2	19.3	19.4	19.5
3 LD02-4485	18.0	19.3	19.2	18.6		18.0	17.6	18.2	18.0
4 U11-920017	19.3	18.3	19.9	19.2		18.9	18.4	19.5	18.3
5 AR15-258059	18.7	19.4	18.7	18.6		18.4	19.5	18.8	18.0
6 AR17-179001	18.5	18.9	17.9	17.9		17.5	16.9	18.4	17.3
7 AR17-179003	19.0	18.6	17.4	18.1		17.1	16.8	18.8	18.0
8 AR17-179012	18.7	18.7	18.7	18.1		17.7	18.7	18.8	17.7
9 AR17-179022	18.2	19.2	18.3	18.7		17.7	18.5	17.9	18.2
10 AR17-179026	18.7	19.1	18.3	19.0		18.1	17.8	18.8	18.0
11 AR17-279010	18.8	17.7	17.7	17.7		17.7	17.0	18.3	17.6
12 AR17-279018	18.1	19.3	18.6	17.8		17.4	18.5	18.2	17.8
13 AR17-279022	19.0	19.3	18.6	18.6		18.1	18.9	19.2	18.0
14 AR17-279024	18.8	18.7	18.3	18.2		17.1	17.0	17.7	17.3
15 LD15-456	18.2	18.8	18.3	18.1		17.7	18.7	18.8	17.2
16 LD15-467	18.7	18.1	18.8	18.5		17.3	17.6	18.6	17.7
17 LD15-5170a	18.9	17.8	17.8	18.6		17.7	18.3	18.4	17.9
18 U16-915064	19.4	19.8	19.5	19.4		18.5	19.4	20.2	18.5
19 U16-915073	17.6	18.6	18.7	18.5		17.6	18.0	19.8	17.9
20 U16-918088	19.5	19.2	18.9	19.1		17.7	17.5	19.4	18.9
21 U16-918097	19.5	19.5	19.2	18.3		17.7	17.2	19.1	17.8
22 U16-920087	18.6	19.0	18.9	18.9		17.7	19.1	18.9	17.1
23 U16-923137	19.0	18.8	18.9	18.3		18.0	17.4	18.7	18.0