

# SANDS OF IOWA, INC.

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## SOI CORN CHARACTERISTICS

HYBRID	ZONE	1 RELATIVE IA	1 MATURITY MN.	2 TYPE CROSS	3 PLANT POP.	4 UNDER DROUGHT STRESS	SEED VIGOR	STAY GREEN	5 EAR HT.	6 PLANT HT.	7 EAR TYPE	8 STRENGTH ROOT	9 STALK	10 EAR RETENT	TEST WEIGHT	DRY DOWN	11 REDUCED TILLAGE
SOI 9033	4,5	103	103	SX	M-MH	2	2	2	M	M	F	3	3	4	3	2	2
SOI 9075	5,6	107	108	SX	M-MH	2	4	3	M	MT	G-SF	2	3	3	4	2	3
SOI 9125	6,7	112	-	SX	M-MH	3	2	2	MH	T	F	3	2	2	2	3	2

## SOI LIBERTYLINK® CORN

SOI 4045 LL	4,5	104	105	SX	M-MH	2	3	3	M	M	SF	2	2	2	3	2	4
SOI 4094 LL	5,6,7	109	110	SX	MH	2	2	2	M	MT	SF	1	2	2	2	2	2
SOI 4110 LL	6,7	111	112	SX	MH	2	2	2	M	M	SF	2	2	2	3	3	2



## HERCULEX™ I INSECT PROTECTION CORN HYBRIDS

SOI 104HX	4,5	104	105	SX	MH-H	2	2	3	M	M	SF	2	2	2	3	2	4
SOI 106HX	4,5,6	106	108	SX	M-MH	2	1	3	M	M	F	2	2	2	3	2	3
SOI 110HX	5,6,7	110	110	SX	MH	2	2	2	M	MT	SF	1	2	2	2	2	2
SOI 112HX	6,7	112	-	SX	MH	2	1	2	M	M	SF	2	2	2	3	3	2
SOI 113HX	6,7	113	-	SX	MH-H	2	3	2	MH	MT	SD	2	3	2	2	3	2

Ratings Compare SOI Hybrids, not competitive hybrids.

1 - Excellent 9 - Poor

### 1. RELATIVE MATURITY

Days to maturity may vary greatly from year to year and area to area due to change of temperature and day length. Hybrids mature faster in warmer areas, seasons and with later planting dates.

\*MINNESOTA MATURITY is rounded to the nearest five days.

### 2. TYPE CROSS

SX = Single Cross

MSX = Modified Single Cross

### 3. PLANT POPULATION

M = Medium

ML = Medium to Low

MH = Medium to High H = High

### 4. DROUGHT TOLERANCES

The ability of the plant to produce while under environmental stress caused by high temperatures, low relative humidity, or wind.

If there is enough moisture for the seed to germinate, it usually will emerge. Continued lack of rain may cause young seedlings to die, especially in loose, coarse seedbed, because the moist soil zone moves down faster than the young roots can grow. When young corn plants have enough nitrogen but lack of moisture, the leaves roll and become dull in appearance, but they do not turn yellow. Later in the life of the corn plant, a severe drought may produce nitrogen deficiency even if plenty of nitrogen was applied.

### 5. AVERAGE EAR HEIGHT TO EAR BEARING NODE ABOVE THE MID POINT OF PLANT

L = Low

MH = Medium High

ML = Medium Low

### 6. AVERAGE PLANT HEIGHT FOR MATURITY

S = Short

MS = Medium Short

M = Medium

MT = Medium Tall

### 7. EAR TYPE

D=Determinate, SD=Semi-Determinate, G=Girthing

C=Cylindrical, SF=Semi-Flex, F=Flex

### 8. ROOT STRENGTH

The plants ability to resist root lodging or "Goose Necking." A plant is considered root lodged when it is leaning greater than 30 degrees from upright.

### 9. STALK STRENGTH

The plants ability to resist breaking below the ear. (Lodge)

### 10. EAR RETENTION

Ears dropping from stalks prematurely

### 11. REDUCED TILLAGE

This rating is based upon two characteristics, early seedling emergence & vigor and the amount of residual field trash.

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