

MISSISSIPPI SOYBEAN PROMOTION BOARD

2015 MSU-ES Iron Deficiency Chlorosis (IDC) Variety Screening Demo

Purpose: The purpose of this demonstration was to evaluate soybean varieties for susceptibility/tolerance to iron deficiency chlorosis (IDC).

Procedure: During 2015, 42 commercial, maturity group V soybean varieties were planted on June 15 at a single location in Monroe County. Data collected on these varieties consisted of final plant height and IDC tolerance ratings. IDC ratings were based on a 0 - 5 scale, with 0 being completely tolerant and 5 being completely susceptible.

Results: No variety was completely tolerant to IDC. The following table contains the final plant height (inches) and the IDC tolerance score based on visual observations of each variety.

Table 3: Soybean variety response to IDC

Variety	Plant Height (in)	IDC Rating (Scale 0 to 5) ¹	Variety	Plant Height (in)	IDC Rating (Scale 0 to 5) ¹
Asgrow AG5233	39	2	Great Heart Seed GH-516CR2	26	3
Asgrow AG5332	26	3	Mycogen 5N501R2	24	3
Asgrow AG5335	22	4	Mycogen 5N522R2	26	4
Asgrow AG5533	21	3	Mycogen 5N550R2	22	4
Asgrow AG5535	18	3	NK S50-J7	22	3
Armor 50-R21	25	4	NK S52-Y2	24	4
Armor 51-R50	21	3	NK S55-Q3	29	3
Croplan R2C5081	28	4	Progeny P 5213 RY	25	3
Delta Grow DG 5625R2Y	23	3	Progeny P 5226 RYS	23	3
Delta Grow DG 5170R2Y	28	4	Progeny P 5333 RY	24	3
Delta Grow DG 5230R2Y	18	3	Progeny P 5555 RY	26	2
Delta Grow DG 5575R2Y	31	3	Progeny P 5610 RY	28	4
Delta Grow DG 5625R2Y	35	3	Schillinger 5220.RC	25	3
Dyna-Gro S52RY75	25	5	Terral REV 51A56	18	3
Delta Grow DG 5575R2Y	32	2	Terral REV 52A94	25	3
Dyna-Gro S56RY84	31	2	Terral REV 54R84	23	3
Dyna-Gro 92RY55	33	3	Terral REV 55R53	27	3
Dyna-Gro S52RY75	30	5	Terral REV 55R63	22	4
Dyna-Gro S56RY84	31	5	Terral REV 55R63	20	3
Dyna-Gro 92RY55	22	4	Univ. of Ark. UA 5414RR	26	3
Dyna-Gro S56RY84	27	3	USG 75J45R	27	4

¹ – IDC tolerance ratings scored on a 0 to 5 scale with 0 being completely tolerant and 5 being completely susceptible