

NDSU Carrington Research Extension Center

2008

Influence of Soybean Seed Size and Planting Depth on Crop Performance

Table 2. Interaction of soybean variety and seed size on soybean performance.

Variety	Seed Size	Early	Later	Second			Pod	Plant	Days to	Seeds/	Seed	Seed	Test	Seed
		Visual Stand	Visual Stand	First Plant Stand	Plant Stand	Plant Lodge	Height	Height	PM	pound	Oil	Protein	Weight	Yield
		%	%	plants ft ⁻²	plants ft ⁻²	0 to 9	cm	inch			%	%	lb/bu	bu/ac
ND 03-8688 F	Small seed (5085)	21.6	71.9	0.76	1.10	0.8	8.0	25.7	117.9	3430	17.5	33.1	55.9	34.9
ND 03-8688 F	Large seed (2981)	23.3	88.8	0.35	0.96	0.9	9.0	26.2	116.3	3364	17.2	33.1	56.5	37.5
RG600 RR	Small seed (4856)	16.6	62.5	0.61	0.96	0.30	6.4	25.0	106.4	3636	17.3	34.4	57.6	26.1
RG600 RR	Large seed (3177)	18.3	86.9	0.53	0.94	0.10	6.6	24.3	104.5	3698	16.9	34.7	57.7	29.0
RG603 RR	Small seed (5085)	24.1	71.3	0.49	1.09	0.00	7.0	25.7	109.5	3226	16.9	36.0	58.4	28.4
RG603 RR	Large seed (2981)	28.1	85.6	0.78	1.02	0.40	6.9	27.3	108.1	3275	17.3	36.3	58.4	31.7
RG603 RR ASI	Small seed (5085)	22.6	65.6	0.61	1.12	0.1	8.9	26.3	110.4	3195	17.0	36.5	58.4	30.1
RG603 RR ASI	Large seed (2981)	28.3	89.4	0.63	1.03	0.1	9.0	27.4	109.0	3190	17.2	36.5	58.3	33.9
RG604 RR	Small seed (4595)	26.6	79.4	0.36	1.02	0.00	7.8	28.1	111.6	3598	17.2	34.4	57.8	33.2
RG604 RR	Large seed (2892)	38.8	88.1	0.57	1.07	0.00	8.9	28.4	111.1	3586	17.1	34.5	58.2	33.8
RG607 RR	Small seed (4548)	20.4	60.0	0.42	1.22	0.60	9.8	27.5	116.0	3243	16.7	34.5	57.3	28.5
RG607 RR	Large seed (2972)	23.8	83.8	0.52	1.02	0.30	9.5	29.7	113.3	3111	17.4	34.5	57.7	37.3
{8 Obs/Trmt}														
	LSD.10	NS	NS	0.21	NS	NS	NS	NS	0.9	NS	NS	NS	NS	3.2
	LSD.05	NS	NS	0.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	LSD.01	NS	NS	0.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	MEAN	24.4	77.8	0.55	1.04	0.30	8.1	26.8	111.2	3381	17.2	34.9	57.7	32.1
	C.V.%	27.0	12.0	46.8	24.2	140	25.7	8.8	0.9	3.8	3.3	1.9	0.8	11.9

Planting Date = June 2 ; Harvest Date = October 15 ; Previous Crop = Spring Wheat