THIRTY-SEVEN SOYBEAN VARIETIES PLANTED ON THREE DATES OVER A FOUR WEEK PERIOD

Raymond Brandl, Cooperator (2007)
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SUMMARY:

In an evaluation of thirty-seven soybean varieties planted on three different dates each about two weeks apart, yields were reduced as the season progressed due to an excessively wet late season potentially causing grain losses due to disease and insect pressure. Yields for the earliest planting (March 28) ranged from 0 - 56 bu/a for an average of 36.7 bu/a. Yields for the second planting (April 16) ranged from 0 - 45.3 bu/a for an average of 30.7 bu/a. Yields for the last planting (May 1) ranged from 0 - 33.9 bu/a for an average of 16.8 bu/a. Over all plantings yields ranged from 0 - 41 bu/a averaging 28 bu/a.

OBJECTIVE:

To determine the optimum yield, planting time and profitability for various soybean varieties and new experimental lines.

MATERIALS and METHODS:

Thirty-seven different soybean varieties were planted at three different dates (March 28, April 16, and May 1, 2007). Seeding rate was 10 seeds per foot and all were planted with a Monosem vacuum planter on 38 inch rows. Seeds were inoculated with Nitragin inoculant. Plots were 100 feet long with two rows per variety.

No fertilizer or insecticide was applied to this demonstration. Boundary herbicide was applied at the rate of 1 qt/ac broadcast followed by Select at the rate of 10 oz/ac.

RESULTS and DISCUSSIONS:

Growth of the soybeans were excellent with more than adequate soil moisture during the growing season. Excessive rains fell in July and along with Asian soybean rust found within the varieties premature yellowing and leaf defoliation did occur on some varieties. Yields were good to very good for the earlier planted soybeans but they diminished due to possible disease incidence and stink bug damage as later planted soybeans matured later in the summer.

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DISCLAIMER CLAUSE:

Trade names of commercial products used in this report are included only for better understanding and clarity. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.

Table 1. Evaluation of soybeans varieties as compared to planting dates. Raymond Brandl, Cooperator, Victoria County, TX 2007.

	Harvest Date as Influenced by Planting Date			Yield in BU/A as Influenced by Planting Date			Overall Average Yield BU/A
VARIETY	28-Mar	16-Apr	1-May	28-Mar	16-Apr	1-May	
DG 38X47RR	30-Jul	13-Aug	20-Sep	45.4	42.5	33.9	41
DG SX07649RR	30-Jul	13-Aug	24-Sep	56	45.3	14.2	39
DG 3463RR	30-Jul	30-Jul	27-Aug	40.4	43.1	28.3	37
DG 33Y45RR	30-Jul	30-Jul	27-Aug	40.1	36.9	33.4	37
DP 4919RR	30-Jul	13-Aug	20-Sep	47.5	34.4	26.8	36
RHX 4843RR	30-Jul	13-Aug	20-Sep	39.5	38.5	29.1	36
HBK R4924RR	30-Jul	22-Aug	24-Sep	46.8	38.7	14.2	33
NKS 49W6RR	30-Jul	13-Aug	24-Sep	45	40	14.2	33
NC+4A65RR	13-Aug	30-Jul	22-Aug	30.1	38.3	30.7	33
NC+4A42	30-Jul	13-Aug	20-Sep	41.1	34	23.6	33
PIONEER 94M71RR	13-Aug	30-Jul	22-Aug	30	37.2	27.8	32
DG 39F51RR	30-Jul	13-Aug	24-Sep	43.4	36.8	14.2	31
NK S46U6RR	30-Jul	30-Jul	22-Aug	35.8	31.9	26.3	31
NC+4A81RR	30-Jul	13-Aug	20-Sep	30.5	35.5	26.3	31
NK 452	30-Jul	13-Aug	20-Sep	41.5	33	16.8	30
DP 4888RR	13-Aug	22-Aug	24-Sep	38.6	37.4	14.2	30
DG 33B52RR	30-Jul	22-Aug	24-Sep	44.5	30.1	14.2	30
DP 5115RR	13-Aug	22-Aug	24-Sep	37.8	36.5	14.2	30
HBK 5123RR	13-Aug	22-Aug	24-Sep	37.6	34.4	14.2	29
NC+5A15RR	7-Aug	22-Aug	24-Sep	43.1	28.4	14.2	29
NKS 49H7RR	13-Aug	22-Aug	24-Sep	37.6	33.4	14.2	28
NK S49Q9RR	13-Aug	13-Aug	24-Sep	35.5	34.1	14.2	28
DP 5414RR	30-Jul	22-Aug	24-Sep	39.9	26.9	14.2	27
DG SX06545RR	30-Jul	13-Aug	27-Aug	30.5	29	19.3	26
DP 5335RR	30-Jul	22-Aug	24-Sep	42.2	27.6	8	26
HBK 4926	30-Jul	13-Aug	20-Sep	39.7	22.6	14.6	26
HBK 5425RR	7-Aug	22-Aug	24-Sep	50.5	17.1	8	25
UA 4805	30-Jul	13-Aug	20-Sep	32.8	24.2	17.8	25
DP 5110S	13-Aug	22-Aug	24-Sep	30.3	30	14.2	25
HBK 5025	30-Jul	22-Aug	24-Sep	36.2	27.6	8	24
HBK 5941	13-Aug	22-Aug	24-Sep	37.1	24.9	8	23
DG 33P54RR	7-Aug	22-Aug	24-Sep	33.9	25.2	8	22
HBK 5894	13-Aug	22-Aug	24-Sep	31	24.8	8	21
DG 31R54	7-Aug	22-Aug	24-Sep	36.7	15.3	8	20
VERNAL	22-Aug	24-Sep	24-Sep	36	8	8	17
SANTA ROSA	-	-	-	0	0	0	0
AVERAGE				38	30.7	16.8	28