

Table 2. Performance of Nonirrigated Early Planted Soybean Cultivars, Northeast Research and Extension Center, Keiser, AR, 1998.

Brand/Cultivar	1998 bu/A	2-Yr. Avg.	3-Yr. Avg.	Maturity Date	Lodging Score	Shatter Score	Plant Ht(in)
<u>Early Maturing Cultivars (RM 4.6 or Less)</u>							
MFA Morsoy 444 SCN	46.0	50.9	.	9-07	1.0	1.0	23
SG 468RR	44.5	.	.	9-11	1.3	1.0	38
HyPerformer HY 4540	43.1	52.2	.	9-07	1.0	1.0	20
MPV 457NRR	41.5	.	.	9-05	1.0	1.0	19
Hartz Variety H4252RR	41.3	.	.	9-08	1.1	1.0	25
Delta King 4860	40.3	49.2	53.6	9-07	1.0	1.0	21
MFA Morsoy 4477 SCN	37.3	.	.	9-04	1.0	1.0	21
Terral TV4479	36.6	.	.	9-08	1.0	1.0	22
MFA Morsoy 4426 SCN	36.6	49.2	.	9-08	1.0	1.0	18
Caverndale CF461	36.3	46.3	54.3	9-02	1.0	1.1	23
DEKALB CX450c	35.5	46.0	.	9-03	1.0	1.1	23
DEKALB CX445	34.7	47.2	53.0	9-01	1.0	1.0	21
HBK 4600	34.5	47.3	53.5	9-07	1.0	1.0	21
Terral TV4666RR	34.0	42.7	.	9-06	1.0	1.0	23
MPV 437NRR	33.9	.	.	9-04	1.1	1.0	18
Midland X421N	33.8	.	.	9-05	1.0	1.1	22
Williams 82	33.6	42.6	47.5	9-05	1.0	1.5	21
Asgrow A4604	33.5	.	.	9-08	1.0	1.0	22
NK Brand S38-L5	33.2	46.1	.	9-03	1.0	1.0	19
Terral TV4664	32.8	44.5	.	9-07	1.0	1.0	20
HBK R4515 Roundup	32.1	.	.	9-04	1.0	1.0	23
NK Brand S43-B5	31.6	42.0	.	9-03	1.0	1.5	19
NK Brand S46-44	30.0	41.9	.	9-06	1.0	1.0	22
NK Brand S42-K2	29.8	38.4	.	9-02	1.0	1.8	20
NK Brand S39-11	29.4	40.2	.	9-01	1.0	2.3	19
Pioneer Variety 94B41	29.0	.	.	9-03	1.0	1.0	20
DEKALB CX399	28.9	.	.	9-03	1.0	1.3	18
NK Brand S39-D9	27.0	.	.	9-03	1.0	1.3	23
NK Brand S46-W8	25.3	38.7	.	9-08	1.0	1.1	22
Grand mean	34.7	.	.	9-05	1.0	1.1	22
LSD (5%)	7.4	.	.	1	0.1	0.3	3
C.V. (%)	15.3	.	.	1	8.2	18.5	10

Table 2. Performance of Nonirrigated Early Planted Soybean Cultivars, Northeast Research and Extension Center, Keiser, AR, 1998, (continued).

Brand/Cultivar	1998 bu/A	2-Yr. Avg.	3-Yr. Avg.	Maturity Date	Lodging Score	Shatter Score	Plant Ht(in)
<u>Late Maturing Cultivars (RM 4.7 to 5.3)</u>							
Deltapine DPX8S49	45.0	.	.	9-18	2.0	1.0	34
Deltapine DP 3478	44.6	49.1	56.9	9-09	1.1	1.3	28
Mycogen 470	44.0	53.0	.	9-10	1.1	1.3	29
Pioneer Variety 9492	43.1	.	.	9-07	1.0	1.0	23
SF 477RR	42.0	.	.	9-09	1.0	1.0	25
NK Brand 3474	41.9	50.0	.	9-09	1.4	1.5	27
Terral TV4770	39.7	47.1	52.1	9-11	1.5	1.0	29
Asgrow A4922	38.5	47.8	52.9	9-10	1.1	1.0	26
HBK 4890	38.1	47.5	.	9-09	1.1	1.6	32
Delta King 4965 RR	37.8	.	.	9-07	1.0	1.0	21
Dixie 478	37.2	44.9	51.9	9-08	1.3	1.1	30
Pioneer Variety 9482	37.2	47.6	.	9-07	1.0	1.3	25
HBK 5149	37.0	43.3	47.4	9-16	1.0	1.0	21
Asgrow A4715	36.9	46.4	53.6	9-08	1.0	1.0	21
Hartz Variety H4994RR	36.3	.	.	9-13	1.0	1.0	21
HBK X9749	36.0	.	.	9-09	1.0	1.1	27
Terral TV4975	35.9	44.7	.	9-13	1.4	1.0	34
HBK 4755	35.4	46.5	53.8	9-06	1.0	1.3	22
DEKALB CX494	35.3	.	.	9-08	1.4	1.6	27
Midland 8475	35.2	.	.	9-08	1.0	1.0	21
NK Brand S51-00	35.2	.	.	9-16	1.0	1.0	31
TN 4-94	34.8	42.8	46.7	9-13	1.5	1.0	38
AgriPro AP 4880	34.8	.	.	9-07	1.4	1.6	28
NK Brand S51-T1	34.8	46.3	.	9-17	2.0	1.0	48
SG 498RR	34.1	.	.	9-17	1.0	1.1	25
Deltapine DP4750 RR	33.1	.	.	9-11	1.4	1.0	29
Mycogen 5474	32.9	.	.	9-07	1.0	1.5	22
Deltapine DP4969 RR	32.0	.	.	9-17	2.0	1.0	48
HBK R4898 Roundup	31.8	.	.	9-08	1.3	1.0	40
TN 4-86	31.3	42.5	48.6	9-06	1.4	1.4	33
DEKALB CX470c	30.0	40.9	.	9-07	1.0	1.6	21

Table 3. Performance of Irrigated Early Planted Soybean Cultivars, Southeast Research and Extension Center-Rohwer Division, AR, 1998.

Brand/Cultivar	1998 bu/A	2-Yr. Avg.	3-Yr. Avg.	Maturity Date	Lodging Score	Shatter Score	Plant Ht(in)
<u>Early Maturing Cultivars (RM 4.6 or Less)</u>							
MPV 457NRR	61.3	.	.	8-24	1.0	1.0	30
Terral TV4479	59.8	59.8	.	8-25	1.0	1.0	28
NK Brand S43-B5	59.1	56.3	.	8-22	1.0	1.0	28
NK Brand S46-44	58.6	57.1	.	8-22	1.0	1.0	28
MFA Morsoy 4477 SCN	57.4	.	.	8-23	1.0	1.0	24
DEKALB CX450c	57.3	60.1	.	8-21	1.0	1.0	34
MPV 437NRR	56.6	.	.	8-21	1.0	1.0	25
Delta King 4860	55.6	62.9	63.7	8-24	1.0	1.0	29
NK Brand S38-L5	55.0	54.8	.	8-18	1.0	1.0	24
MFA Morsoy 4426 SCN	54.9	.	.	8-22	1.0	1.0	24
NK Brand S46-W8	54.7	56.1	.	8-22	1.0	1.0	28
NK Brand S42-K2	54.5	57.0	.	8-21	1.0	1.0	27
Midland X421N	54.3	.	.	8-17	1.0	1.0	28
NK Brand S39-D9	54.0	.	.	8-18	1.0	1.0	28
HBK 4600	52.3	57.6	56.9	8-26	1.0	1.0	27
SG 468RR	52.2	.	.	8-28	1.0	1.0	40
Pioneer Variety 94B41	52.1	.	.	8-19	1.0	1.0	24
Caverndale CF461	52.0	53.5	54.9	8-20	1.0	1.0	33
DEKALB CX445	51.8	56.2	54.4	8-18	1.0	1.0	30
HyPerformer HY 4540	50.0	57.4	.	8-25	1.0	1.0	25
Terral TV4666RR	49.6	52.3	.	8-24	1.0	1.0	34
Hartz Variety H4252RR	49.5	.	.	8-28	1.0	1.0	36
HBK R4515 Roundup	49.3	.	.	8-25	1.0	1.0	37
MFA Morsoy 444 SCN	49.1	56.0	.	8-24	1.0	1.0	25
Terral TV4664	48.5	59.4	.	8-21	1.0	1.0	30
DEKALB CX399	45.4	.	.	8-18	1.0	1.0	27
NK Brand S39-11	43.5	48.0	.	8-17	1.0	1.0	28

Asgrow A4604	41.8	.	.	8-22	1.0	1.0	32
Williams 82	41.3	47.2	47.6	8-19	1.0	1.0	31
Grand mean	52.5	.	.	8-22	1.0	1.0	29
LSD (5%)	12.9	.	.	3	ns	ns	4
C.V. (%)	17.4	.	.	4			9

10

Table 3. Performance of Irrigated Early Planted Soybean Cultivars, Southeast Research and Extension Center-Rohwer Division, AR, 1998, (continued).

Brand/Cultivar	1998 bu/A	2-Yr. Avg.	3-Yr. Avg.	Maturity Date	Lodging Score	Shatter Score	Plant Ht(in)
<u>Late Maturing Cultivars (RM 4.7 to 5.3)</u>							
Pioneer Variety 9482	57.1	58.3	.	8-24	1.0	1.0	31
Delta King 4965 RR	54.8	.	.	8-25	1.0	1.0	27
Asgrow A4922	54.3	60.4	63.5	8-27	1.0	1.0	30
Mycogen 470	53.7	59.3	.	8-26	1.0	1.0	31
Asgrow A4715	53.3	59.2	60.5	8-25	1.0	1.0	25
TN 4-86	52.3	58.1	59.1	8-25	1.0	1.0	37
Terral TV4770	52.0	57.6	58.0	8-30	1.0	1.0	40
NK Brand 3474	51.6	56.9	.	8-27	1.0	1.0	33
Deltapine DP 3478	51.4	56.8	59.9	8-25	1.0	1.0	31
HBK 4755	49.5	58.6	61.5	8-22	1.0	1.0	25
Midland 8475	49.5	.	.	8-23	1.0	1.0	23
SF 477RR	47.4	.	.	8-26	1.0	1.0	30
Pioneer Variety 9492	47.3	.	.	8-25	1.0	1.0	28
DEKALB CX494	47.2	.	.	8-28	1.0	1.0	33
AgriPro AP 4880	46.8	59.0	.	8-24	1.0	1.0	30
Delta King 4762 RR	46.2	53.9	.	8-26	1.0	1.0	38
NK Brand S51-00	45.6	.	.	8-30	1.0	1.0	41
Deltapine DPX8S49	45.5	.	.	8-31	1.0	1.0	38
HBK X9749	45.3	.	.	8-27	1.0	1.0	32
HBK 5149	43.2	51.5	57.7	8-30	1.0	1.0	21
HBK 4890	43.1	51.3	.	8-27	1.0	1.0	37
DEKALB CX470c	42.9	52.1	.	8-20	1.0	1.0	24
TN 4-94	42.5	50.3	54.5	8-30	1.0	1.0	41
Dixie 478	42.4	53.5	57.7	8-25	1.0	1.0	31
Deltapine DP4750 RR	42.3	.	.	8-27	1.0	1.0	35

SG 498RR	42.0	.	.	8-27	1.0	1.0	26
Mycogen 5474	38.8	.	.	8-20	1.0	1.0	25
Hartz Variety H4994RR	38.5	.	.	8-30	1.0	1.0	20
Caverndale CF492	37.6	47.5	50.0	8-25	1.0	1.0	13
Terral TV4975	37.1	43.7	.	8-31	1.0	1.0	38
Delta King 5263 RR	36.9	.	.	8-28	1.0	1.0	20

11

Table 3. Performance of Irrigated Early Planted Soybean Cultivars, Southeast Research and Extension Center-Rohwer Division, AR, 1998, (continued).

Brand/Cultivar	1998 bu/A	2-Yr. Avg.	3-Yr. Avg.	Maturity Date	Lodging Score	Shatter Score	Plant Ht(in)
----------------	--------------	---------------	---------------	------------------	------------------	------------------	---------------------

Late Maturing Cultivars (RM 4.7 to 5.3) continued

Manokin	36.8	47.0	51.4	8-30	1.0	1.0	18
Deltapine DP4969 RR	36.2	.	.	9-03	1.0	1.0	53
HBK R4898 Roundup	33.9	.	.	8-30	1.0	1.0	51
NK Brand S51-T1	32.1	.	.	8-31	1.0	1.0	57
Grand mean	45.1	.	.	8-27	1.0	1.0	32
LSD (5%)	9.4	.	.	3	ns	ns	4
C.V. (%)	14.8	.	.	3			8

Soil Type.....Hebert silt loam
Row Width.....19 inches
Previous Crop.....Soybean
Fertilizer Applied.....200 lbs./A 0-15-30, 2-09-98
Lime Applied.....None
Planting Date.....4-16-98
Herbicide Applications.....1.8 pt./A Prowl + 0.375 lb./A Canopy, 4-13-98; 0.75 pt./A Fusilade DX, 6-11-98
Cultivation Dates.....5-27-98
Irrigation Dates.....5-19-98, 6-11-98, 6-16-98, 6-23-98, 7-02-98, 7-09-98, 7-27-98
Harvest Dates..... Early: 9-02-98
Late: 9-09-98

Precipitation (inches)

	April	May	June	July	August	September	Total
1998	3.9	4.1	1.1	7.3	1.0	2.1	19.5
Average	5.0	4.7	3.5	3.9	2.7	3.1	22.9
Departure	-1.1	-0.6	-2.4	+3.4	-1.7	-1.0	-3.4

12

Table 4. Performance of Irrigated Early Planted Soybean Cultivars, Vegetable Substation, Kibler, AR, 1998.

Brand/Cultivar	1998 bu/A	2-Yr. Avg.	3-Yr. Avg.	Maturity Date	Lodging Score	Shatter Score	Plant Ht(in)
<u>Early Maturing Cultivars (RM 4.7 or Less)</u>							
Terral TV4479	57.2	57.8	.	9-03	1.0	1.0	42
NK Brand S46-44	53.4	63.6	.	9-04	1.3	1.0	43
HyPerformer HY 4540	53.3	60.3	.	9-06	1.0	1.0	40
DEKALB CX450c	51.9	61.9	.	9-01	2.7	1.0	47
MFA Morsoy 444 SCN	51.3	55.9	.	9-08	1.0	1.0	39
Pioneer Variety 94B41	50.5	.	.	8-30	1.0	1.3	38
MFA Morsoy 4477 SCN	50.0	.	.	9-01	1.0	2.0	40
Terral TV4664	47.9	61.0	.	9-02	1.0	2.0	45
NK Brand S43-B5	47.9	59.5	.	8-30	2.7	2.0	39
MFA Morsoy 4426 SCN	46.7	.	.	9-01	1.0	1.0	36
NK Brand S38-L5	46.2	54.9	.	8-26	1.7	3.0	36
Delta King 4860	45.5	52.8	56.1	9-05	1.0	1.0	42
NK Brand S46-W8	44.9	56.6	.	9-05	1.7	1.0	44
Asgrow A4604	44.2	.	.	9-04	2.7	2.0	42
MPV 437NRR	43.0	.	.	9-01	1.0	1.0	38
MPV 457NRR	43.0	.	.	9-04	1.3	1.7	38
NK Brand S42-K2	42.1	52.2	.	9-01	1.0	2.0	42
NK Brand S39-D9	41.1	.	.	8-26	1.0	2.3	38
Hartz Variety H4252RR	38.8	.	.	9-04	1.7	1.3	47

DEKALB CX399	38.5	.	.	8-25	1.3	3.0	42
HBK 4600	38.3	47.4	52.9	9-04	1.0	1.0	43
HBK R4515 Roundup	34.3	.	.	9-01	1.7	2.0	47
Midland X421N	32.2	.	.	8-25	2.7	3.0	40
DEKALB CX445	31.6	44.6	53.9	8-26	1.0	1.7	44
Terral TV4666RR	29.8	45.6	.	9-01	1.3	2.0	49
NK Brand S39-11	29.2	40.9	.	8-25	3.0	4.7	40
SG 468RR	27.9	.	.	9-05	1.7	1.3	47
Caverndale CF461	26.2	44.9	53.7	9-01	1.0	2.0	43
Williams 82	24.0	44.2	48.2	8-28	1.7	3.0	41
Grand mean	41.8	.	.	9-01	1.5	1.8	42
LSD (5%)	12.3	.	.	3	1.0	0.6	4
C.V. (%)	17.9	.	.	3	38.8	18.7	6

13

Table 4. Performance of Irrigated Early Planted Soybean Cultivars, Vegetable Substation, Kibler, AR, 1998, (continued).

Brand/Cultivar	1998 bu/A	2-Yr. Avg.	3-Yr. Avg.	Maturity Date	Lodging Score	Shatter Score	Plant Ht(in)
<u>Late Maturing Cultivars (RM 4.8 to 5.3)</u>							
Asgrow A4715	51.5	56.3	59.2	9-09	1.0	1.0	40
Pioneer Variety 9492	51.4	.	.	9-09	1.0	1.0	38
Terral TV4770	48.1	54.0	58.7	9-18	1.3	1.3	42
TN 4-86	46.6	50.3	51.3	9-09	1.7	1.7	47
Delta King 4762 RR	46.3	51.0	.	9-17	1.0	2.3	43
Mycogen 5474	45.9	.	.	9-03	1.0	4.0	40
HBK 4890	44.0	48.8	.	9-10	1.3	3.0	47
Manokin	43.5	45.5	50.9	9-17	1.0	1.0	31
SF 477RR	43.4	.	.	9-12	1.3	1.0	43
Asgrow A4922	42.9	51.4	56.3	9-13	1.0	2.7	42
Deltapine DPX8S49	42.3	.	.	9-19	1.0	1.3	45
Midland 8475	42.1	.	.	9-07	1.0	1.3	38
Pioneer Variety 9482	41.7	49.8	.	9-08	1.3	2.0	41
Deltapine DP4750 RR	40.3	.	.	9-18	1.3	2.0	47
Deltapine DP 3478	39.9	53.8	59.2	9-11	1.3	2.0	44
HBK X9749	39.5	.	.	9-11	1.7	1.0	42

Mycogen 470	38.8	48.0	.	9-10	2.0	2.0	43
AgriPro AP 4880	38.6	50.2	.	9-10	1.7	2.3	43
HBK 5149	37.2	42.3	47.6	9-15	1.0	1.0	34
DEKALB CX470c	36.6	52.5	.	8-31	1.0	4.0	42
NK Brand 3474	36.2	51.4	.	9-12	1.0	2.0	42
Delta King 5263 RR	36.2	.	.	9-12	1.0	1.0	30
Hartz Variety H4994RR	35.1	.	.	9-14	1.0	1.0	34
TN 4-94	34.3	41.3	47.5	9-17	1.7	2.7	49
Delta King 4965 RR	34.0	.	.	9-11	1.3	1.3	40
Terral TV4975	32.9	36.5	.	9-20	2.3	1.3	49
DEKALB CX494	32.6	.	.	9-08	1.3	1.7	42
NK Brand S51-T1	31.7	.	.	9-17	2.0	1.3	54
SG 498RR	31.2	.	.	9-10	1.0	1.0	38
Caverndale CF492	30.8	42.2	49.3	9-05	1.0	1.0	23
HBK 4755	28.4	45.7	53.0	9-07	1.0	3.0	38

14

Table 4. Performance of Irrigated Early Planted Soybean Cultivars, Vegetable Substation, Kibler, AR, 1998, (continued).

Brand/Cultivar	1998 bu/A	2-Yr. Avg.	3-Yr. Avg.	Maturity Date	Lodging Score	Shatter Score	Plant Ht(in)
<u>Late Maturing Cultivars (RM 4.8 to 5.3) continued</u>							
Dixie 478	28.4	42.9	49.9	9-15	1.0	1.3	46
HBK R4898 Roundup	28.4	.	.	9-11	2.7	1.0	49
Deltapine DP4969 RR	24.7	.	.	9-18	1.7	1.0	56
NK Brand S51-00	22.9	.	.	9-10	1.0	1.0	45
Grand mean	38.0	.	.	9-12	1.3	1.7	42
LSD (5%)	10.7	.	.	6	0.7	0.8	5
C.V. (%)	17.4	.	.	5	33.0	30.6	8

Soil Type.....Roxanna silt loam
 Row Width.....18 inches
 Previous Crop.....Soybean
 Fertilizer Applied.....None
 Lime Applied.....None
 Planting Date.....4-30-98

Herbicide Applications.....4 oz./A Pursuit + 1 pt./A Treflan, 4-30-98; 2 pt./A Blazer + 1 pt./A Basagran,
5-19-98
Irrigation Dates.....5-20-98, 6-25-98, 7-13-98, 7-20-98, 7-28-98, 7-31-98, 8-06-98, 8-10-98
Harvest Dates..... Early: 9-09-98
Late: 9-25-98

Precipitation (inches)
(rainfall not available for previous years)

	May	June	July	August	September	Total
1998	3.5	2.6	2.0	5.0	4.8	17.9