

2008 SMFD

Jasa

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Pop	2007
50K	62.2
75K	63.2
100K	60.4
125K	60.4
150K	61.2
175K	59.9
200K	59.3
225K	60.1

Marion Calmer, IL

Spacing	150K	225K
30 inch	78.2	77.6
15 inch	78.4	76.6

2004-2007 Gordon, KSU

Spacing	Yield
15 inch	63.9
30 inch	60.7
45 inch	53.1

2007 Marion Calmer, IL

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Timeliness Penalty

12 row Planter (30'P) at 5 mph does 18.2 A/h
 But only plants about 75% of the time = 13.5 A/h
 Weather and other delays – only half time in field
 $13.5 \text{ A/h} \times 10 \text{ h/day} \times 15 \text{ days} \times \frac{1}{2} = 1012 \text{ acres}$

Soybean yields go down about $\frac{1}{2}$ bu/day after May 1
 67 acres a day with the above planting conditions

1 day	$\times \frac{1}{2} \times \$10/\text{bu} = \$ 5$	$\times 67 \text{ A} = \$ 335$	933 A
5 days	$\times \frac{1}{2} \times \$10/\text{bu} = \$25$	$\times 67 \text{ A} = \$1675$	598 A
10 days	$\times \frac{1}{2} \times \$10/\text{bu} = \$50$	$\times 67 \text{ A} = \$3350$	263 A
15 days	$\times \frac{1}{2} \times \$10/\text{bu} = \$75$	$\times 67 \text{ A} = \$5025$	Done

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Timeliness Penalty

Seeders	Operators	Corn	Soybeans	\$/acre
12R (30'P)	1	4/15-4/30	4/30-5/14	\$16.30
30'P 15'D	1	4/15-4/30	4/30-5/22	\$29.29
30'P 15'D	2	4/15-4/30	4/20-5/12	\$ 8.33
30'P 30'D	2	4/15-4/30	4/20-5/1	None

Assume: 1000A each crop, 1% yield penalty after 5/1 for both crops,
 planter at 5 mph, drill at 6 mph, 10 hour days in the field,
 200 bu/A corn at \$4/bu, 60 bu/A soybeans at \$10/bu

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