

## Sprocket Setting Instructions

Here are the instructions for finding the desired sprocket settings for unique row units from the John Deere Operator's Manual.

### For Cotton and Sugar Beet 60 Cell eSet<sup>®</sup> Disks

Use these instructions along with the 60 Cell Rate Chart available on <http://www.precisionplanting.com/eset-vacuum/operating.shtml>.

### Finding Transmission Sprocket Settings for Row Widths Not Shown in Operator's Manual

When desired population is known, use the following formula to find transmission sprocket settings for row widths not shown in seed charts.

FORMULA:

$$(A \div B) \times C = D$$

A = Desired row width in inches.

B = Row width column in the seed chart (for crop being planted) nearest to desired row width.

C = Seed population desired.

D = Calculated comparison population value.

The following example assumes corn will be planted (using vacuum meters with corn-30 cell disks) with

planting units set on 28 in. rows and a desired seed population of 28 000. Using seed chart for corn-30 cells, the row width nearest the desired row width is 30 in.

EXAMPLE:

$$(28 \div 30) \times 28\,000 = 26\,133$$

Find population value in chart nearest to calculated comparison population value (26 318 for this example).

Use the sprocket combinations in the corresponding rows (29-tooth driver and 27-tooth driven for this example) to achieve desired population (28 000 for this example).

{Decal No. DB1083}

CORN - 30 CELLS

AVERAGE SEED SPACING AND/OR APPROXIMATE SEED POPULATION PER ACRE OF CORN SEED PLANTED WITH VACUUM METER

NOTE: For information on using planting rate charts, see "HOW TO USE PLANTING RATE CHARTS".

HIGH RANGE INPUT SPROCKET

Sprocket Combinations (Number of Teeth) Driver Driven		Average Seed Spacing in In.	Approximate Seed Population Per Acre				Recommended Speed Range in mph
			30 In. Rows	36 In. Rows	38 In. Rows	40 In. Rows	
35	24	2-3/16	95,288	79,406	75,227	71,466	2 to 3
35	25	2-5/16	91,476	76,230	72,218	68,607	2 to 3
35	26	2-3/8	87,958	73,298	69,440	65,968	2 to 3
35	27	2-1/2	84,700	70,583	66,868	63,525	2 to 3-1/2
35	28	2-9/16	81,675	68,063	64,480	61,256	2 to 3-1/2
29	24	2-5/8	78,593	65,794	62,331	59,214	2 to 3-1/2
29	25	2-3/4	75,794	63,162	59,383	56,846	2 to 3-1/2
29	26	2-7/8	72,879	60,733	57,536	54,659	2 to 4
29	27	3-1/16	70,180	58,483	55,405	52,635	2 to 4
29	28	3-1/8	67,674	56,395	53,427	50,755	2 to 4
24	24	3-1/4	65,340	54,450	51,584	49,005	2 to 4-1/2
24	25	3-5/16	62,726	52,272	49,521	47,045	2 to 4-1/2
24	26	3-1/2	60,314	50,262	47,616	45,235	2 to 4-1/2
24	27	3-5/8	58,080	48,400	45,853	43,560	2 to 5
24	28	3-3/4	56,006	46,671	44,215	42,004	2 to 5
20	24	3-13/16	54,450	45,375	42,987	40,838	2 to 5-1/2
20	25	4	52,272	43,560	41,267	39,204	2 to 5-1/2
20	26	4-3/16	50,262	41,885	39,680	37,696	2 to 6
20	27	4-5/16	48,400	40,333	38,211	36,300	2 to 6
20	28	4-1/2	46,671	38,893	36,846	35,004	2 to 6-1/2
16	24	4-7/8	43,560	36,300	34,389	32,670	2 to 6-1/2
16	25	5	41,818	34,484	33,014	31,363	2 to 7
16	26	5-3/16	40,209	33,508	31,744	30,157	2 to 7
16	27	5-3/8	38,720	32,267	30,568	29,040	2 to 7-1/2
16	28	5-5/8	37,337	31,114	29,477	28,003	2 to 8

LOW RANGE INPUT SPROCKET

Sprocket Combinations (Number of Teeth) Driver Driven		Average Seed Spacing in In.	Approximate Seed Population Per Acre				Recommended Speed Range in mph
			30 In. Rows	36 In. Rows	38 In. Rows	40 In. Rows	
35	24	5-13/16	35,733	29,777	28,210	26,800	3 to 8
35	25	6-1/8	34,304	28,586	27,082	25,728	3 to 8
35	26	6-3/8	32,984	27,487	26,040	24,738	3 to 8
35	27	6-9/16	31,763	26,469	25,076	23,822	3 to 8
35	28	6-13/16	30,628	25,523	24,180	22,971	3 to 8
29	24	7-1/16	29,607	24,673	23,374	22,205	4 to 8
29	25	7-3/8	28,423	23,686	22,439	21,317	4 to 8
29	26	7-5/8	27,330	22,775	21,576	20,497	4 to 8
29	27	7-15/16	26,318	21,931	20,777	19,738	4 to 8
29	28	8-1/4	25,378	21,148	20,035	19,033	4 to 8
24	24	8-9/16	24,503	20,419	19,344	18,377	4 to 8
24	25	8-7/8	23,522	19,602	18,570	17,642	4 to 8
24	26	9-1/4	22,618	18,848	17,856	16,963	4 to 8
24	27	9-5/8	21,780	18,150	17,195	16,335	4 to 8
24	28	9-15/16	21,002	17,502	16,581	15,752	4 to 8
20	24	10-1/4	20,419	17,016	16,120	15,314	4 to 8
20	25	10-11/16	19,602	16,335	15,475	14,702	4 to 8
20	26	11-1/16	18,848	15,707	14,880	14,136	4 to 8
20	27	11-1/2	18,150	15,125	14,329	13,613	4 to 8
20	28	11-15/16	17,502	14,585	13,817	13,126	4 to 8
16	24	12-13/16	16,335	13,613	12,896	12,251	4 to 8
16	25	13-5/16	15,682	13,068	12,380	11,761	4 to 8
16	26	13-7/8	15,078	12,565	11,904	11,309	4 to 8
16	27	14-3/8	14,520	12,100	11,463	10,890	4 to 8
16	28	14-15/16	14,001	11,668	11,054	10,501	4 to 8

IMPORTANT: To prevent planting miscalculations, make field checks to be sure you are planting at desired rate.