

SEED METER OPERATION/MAINTENANCE

GENERAL PLANTING RATE INFORMATION

These planting rate charts are applicable to KINZE® Model 3500 EdgeVac® Twin-Line® Planters. See “Tire Pressure” for recommended tire pressures.

IMPORTANT: The sprocket combinations listed in these charts are best for average conditions. Changes in sprocket combinations may be required to obtain desired planting population. TO PREVENT PLANTING MISCALCULATIONS, MAKE FIELD CHECKS TO BE SURE YOU ARE PLANTING AT THE DESIRED RATE.

The size and shape of seed may affect the planting rate.

The following seed discs are available for use with the KINZE® EdgeVac® Seed Metering System:

Corn/Popcorn: 39 cell. Light blue color-coded. For all seed corn grades from 35 to 70 pounds per 80,000 kernel count unit or popcorn seed size range from 2210 to 4200 seeds per pound. Also used for No. 1 sunflower seeds. *When planting popcorn this seed disc requires use of seed baffle. See “Seed Meter” on pages 7-2 and 7-3 for additional information.*

Low-Rate Corn/Popcorn: 24 cell. Light green color-coded. For all seed corn grades from 35 to 70 pounds per 80,000 kernel count unit or popcorn seed size range from 2210 to 4200 seeds per pound. Also used for No. 1 sunflower seeds. *When planting popcorn this seed disc requires use of seed baffle. See “Seed Meter” on pages 7-2 and 7-3 for additional information.*

Soybean: 60 cell. Black color-coded. Seed size range from 2200 to 4000 seeds per pound. *This seed disc requires use of seed baffle. See “Seed Meter” on pages 7-2 and 7-3 for additional information.*

Soybean, High-Rate: 120 cell. Dark blue color-coded. Seed size range from 2200 to 4000 seeds per pound. *This seed disc requires use of seed baffle. See “Seed Meter” on pages 7-2 and 7-3 for additional information.*

Milo/Grain Sorghum: 60 cell. Yellow color-coded. Seed size range from 10,000 to 20,000 seeds per pound. *This seed disc requires use of seed baffle and cleanout brush. See “Seed Meter” on pages 7-2 and 7-3 for additional information.*

Hill-Drop Cotton, Acid-Delinted (3 Seeds Per Cell): 20 cell. Brown color-coded. Cotton seed size range from 3800 to 4400 seeds per pound. *This seed disc requires use of cleanout brush w/ball-type ejector. See “Seed Meter” on pages 7-2 and 7-3 for additional information.*

Small Hill-Drop Cotton, Acid-Delinted (3 Seeds Per Cell): 20 cell. Grey color-coded. Cotton seed size range from 4200 to 5200 seeds per pound. *This seed disc requires use of cleanout brush w/ball-type ejector. See “Seed Meter” on pages 7-2 and 7-3 for additional information.*

Cotton, Acid-Delinted/Small Dry Edible Bean: 54 cell. Dark green color-coded. Cotton seed size range from 3800 to 4400 seeds per pound or dry edible bean seed size range from 1200 to 2500 seeds per pound. *This seed disc requires use of cleanout brush w/ball-type ejector. See “Seed Meter” on pages 7-2 and 7-3 for additional information.*

Small Cotton/Sunflower: 54 cell. White color-coded. Cotton seed size range from 4200 to 5200 seeds per pound or sunflower seed sizes No. 2, 3 and 4. *This seed disc requires use of cleanout brush w/ball-type ejector. See “Seed Meter” on pages 7-2 and 7-3 for additional information.*

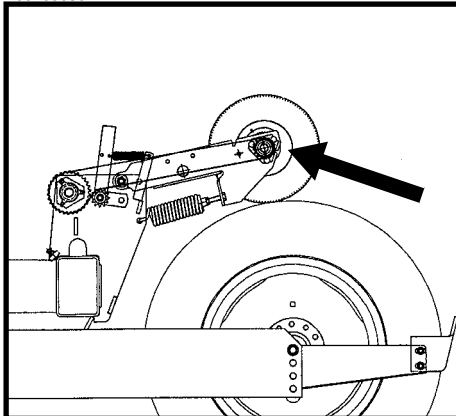
Large Dry Edible Bean: 54 cell. Tan color-coded. Seed size range from 800 to 1200 seeds per pound.

NOTE: Due to a multitude of variables, seed spacing can be adversely affected at speeds above 5.5 MPH.

NOTE: See “Seed Meter Singulator Brush And Vacuum Level Adjustments” on page 7-26.

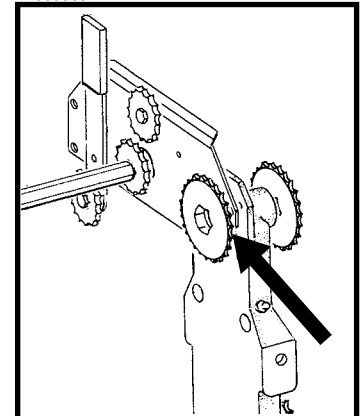
NOTE: 15, 19 and 30 tooth drive sprockets are NOT applicable to all rate charts. Check chart titles to ensure proper rate chart is selected. 15 and 19 tooth sprockets require use of a 116 pitch No. 40 chain and the 30 tooth sprocket requires use of a 124 pitch No. 40 chain.

D06260656



NOTE: Contact wheel drive sprockets referenced in each rate chart title.

D10300602

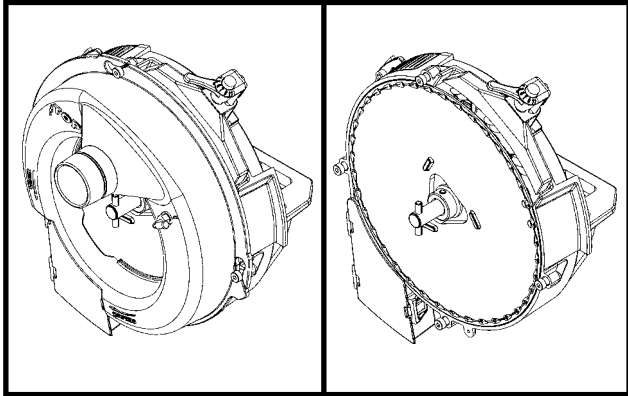


NOTE: Reverser driven sprocket referenced in each rate chart title.

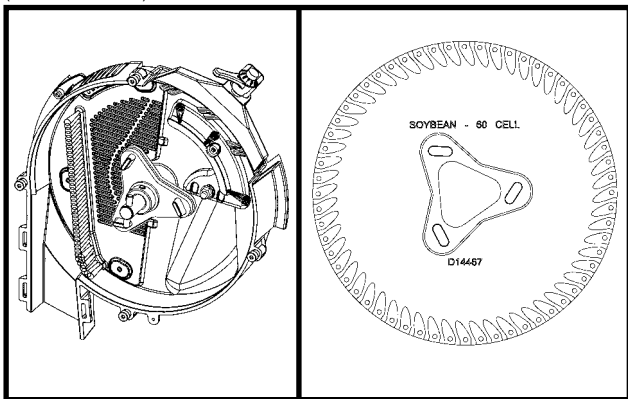
SEED METER OPERATION/MAINTENANCE

SEED METER

(METR71/METR71a)

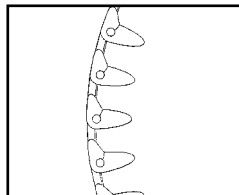


(METR70/D14467a)

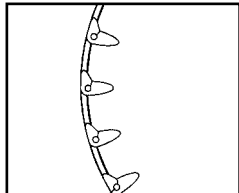


The seed discs below and at right are available for use with the KINZE® EdgeVac® Seed Metering System:

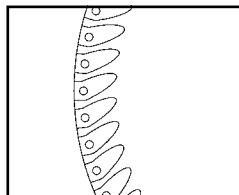
Corn/Popcorn: 39 cell. For all seed corn grades from 35 to 70 pounds per 80,000 kernel count unit. Popcorn seed size range from 2210 to 4200 seeds per pound (*Light blue color-coded.*) (D14465)



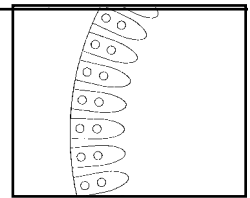
Low-Rate Corn/Popcorn: 24 cell. For all seed corn grades from 35 to 70 pounds per 80,000 kernel count unit. Popcorn seed size range from 2210 to 4200 seeds per pound. (*Light green color-coded.*) (D16734a)



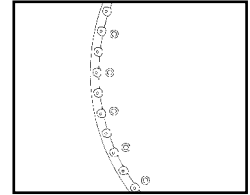
Soybean: 60 cell. Seed size range from 2200 to 4000 seeds per pound. (*Black color-coded.*) (D14467a)



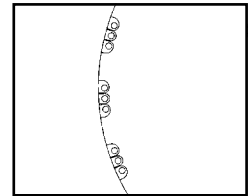
Soybean, High-Rate: 120 cell. Seed size range from 2200 to 4000 seeds per pound. (*Dark blue color-coded.*) (D14468a)



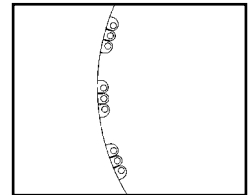
Milo/Grain Sorghum: 60 cell. Seed size range from 10,000 to 20,000 seeds per pound. (*Yellow color-coded.*) (D17050)



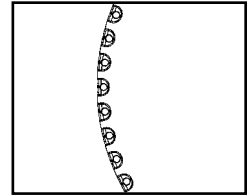
Hill-Drop Cotton, Acid-Delinted (3 Seeds Per Cell): 20 cell. Cotton seed size range from 3800 to 4400 seeds per pound. (*Brown color-coded.*) (D17187)



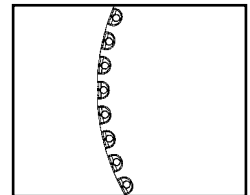
Small Hill-Drop Cotton, Acid-Delinted (3 Seeds Per Cell): 20 cell. Cotton seed size range from 4200 to 5200 seeds per pound. (*Grey color-coded.*) (D17187)



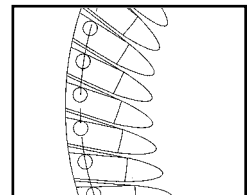
Cotton, Acid-Delinted/Small Dry Edible Bean: 54 cell. Cotton seed size range from 3800 to 4400 seeds per pound. Dry edible bean seed size range from 1200 to 2500 seeds per pound. (*Dark green color-coded.*) (D17186)



Small Cotton/Sunflower: 54 cell. Cotton seed size range from 4200 to 5200 seeds per pound. Sunflower seed sizes No. 2, 3 and 4. (*White color-coded.*) (D17186)



Large Dry Edible Bean: 54 cell. Seed size range from 800 to 1200 seeds per pound. (*Tan color-coded.*) (D14477)



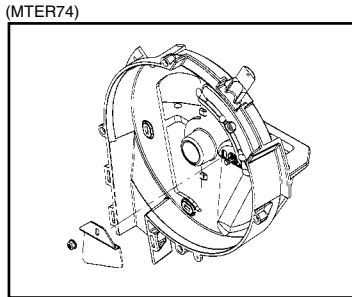
Install the selected seed disc. Position the vacuum cover on the meter by aligning the keyhole slots over the bolt heads. Push the cover on the meter and turn counter clockwise to lock in place. **See following page for additional components required with specific seed discs.**

SEED METER OPERATION/MAINTENANCE

NOTE: Use of damaged seed or seed containing foreign material will cause plugging of seed disc orifices and require more frequent seed meter cleanout to prevent underplanting.

SEED BAFFLE

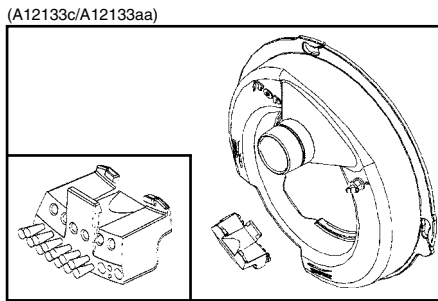
- Milo/Grain Sorghum
- Soybeans
- Popcorn



The **seed baffle** is designed to prevent excessive seed in the meter from restricting air flow through the seed. **Used with 60 Cell Milo/Grain Sorghum Disc, 60 Cell Soybean Disc, 120 Cell High-Rate Soybean Disc and 39 Cell and 24 Cell Popcorn Discs.**

CLEANOUT BRUSH

- Milo/Grain Sorghum

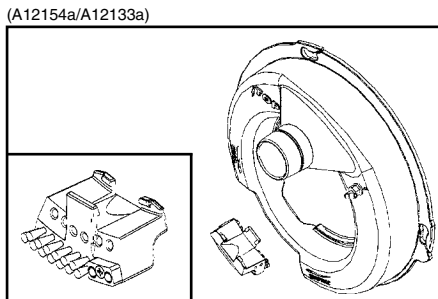


The **cleanout brush** is designed to remove foreign material and seed remnants to help prevent plugging of seed disc orifices.

Used with 60 Cell Milo/Grain Sorghum Disc.

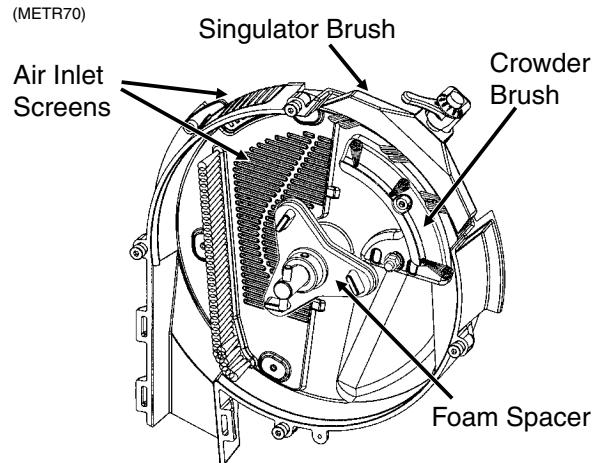
CLEANOUT BRUSH W/BALL-TYPE EJECTOR

- Cotton
- Small Edible Beans
- No. 2, No. 3 And No. 4 Sunflowers



The **cleanout brush w/ball-type ejector** is designed to eject seed remnants from the seed disc orifices. **Used with 20 Cell Hill-Drop Cotton, Acid-Delinted (3 Seeds Per Cell) Discs; 54 Cell Acid-Delinted Cotton/Small Dry Edible Bean; and Small Cotton/Sunflower Discs.**

NOTE: Foreign material in seed disc orifices, such as seed chips, hulls, stems, etc., may affect seed delivery. Clean seed is required to ensure accurate seed metering from the vacuum seed meter. Seed discs should be removed daily to check for buildup of foreign material in the seed disc orifices.

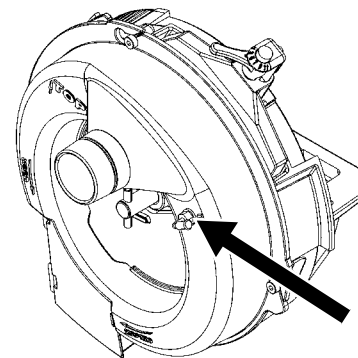


The crowder brush aids in the singulation of small flat seeds by (a) crowding seeds to the outer perimeter of the seed disc and (b) orienting seeds to allow the singulator brush to be more effective.

The air inlet screens allow air to enter the system and aids in keeping field residue or other foreign material out of the meter.

The foam spacer gently preloads the seed disc against the vacuum cover when no vacuum is present.

(METR71)



The 3/16" hose barb elbow on the seed meter vacuum cover allows measurement of vacuum level at each meter. A customer-supplied vacuum gauge is required.

See "Seed Meter Singulator Brush And Vacuum Level Adjustments", "Seed Meter Maintenance" and "Preparation For Storage" for additional EdgeVac® Seed Metering System information.

SEED METER OPERATION/MAINTENANCE

One tablespoon of **powdered graphite** should be mixed with the seed each time the hoppers are filled. Regular graphite use will prolong the life of the vacuum seed meter components, improve seed spacing, and may reduce buildup of seed treatments. Apply graphite around the outer perimeter of the hopper as shown below.

D05300104b



NOTE: DO NOT apply graphite only in the center of the hopper. It will filter too quickly through the seed and not distribute as evenly as desired.

NOTE: Additional graphite or talc may be required to retard buildup of seed treatments on meter components. More frequent cleaning of monitor seed tubes may be necessary due to use of additional graphite or talc.

Talc seed lubricant may be used in lieu of or in addition to graphite to improve seed release from the meter. Fill hopper $\frac{1}{2}$ full of seed, add $\frac{1}{4}$ cup of talc and **mix thoroughly**. Finish filling hopper, add another $\frac{1}{4}$ cup of talc and **mix thoroughly**. (For sunflowers, increase talc amount from $\frac{1}{4}$ cup to $\frac{1}{2}$ cup.) Adjust rate of talc use as needed so all seeds are coated, while avoiding a buildup of talc in the bottom of the hopper. Humid conditions and/or small sized seeds with extra seed treatment may require as much as one cup of talc per hopper to maintain meter performance.

NOTE: Some liquid seed treatments or inoculants may create buildup on the seed disc or brushes. Check frequently for proper population and/or seed delivery when using any liquid seed treatment. All seed treatment should be thoroughly mixed with the seed per the manufacturers' recommendations. Seed treatment dumped on top of the seed after the hopper is filled, and not mixed properly may cause bridging of the seed in the meter, reducing population or stopping the meter from planting.

SEED METER CLEANOUT

To maintain genetic purity, thorough seed meter cleanout is important.

To clean the seed meter, disengage the seed drive and remove the seed hopper and meter. Lay the hopper on its right side.

Disassemble seed meter by rotating vacuum cover clockwise to align keyhole slots with bolt heads. Lift off cover. Remove seed disc. Empty the meter and hopper by allowing the seed to run out of the meter. Inspect brushes in meter to ensure all seed is removed. Replace seed disc and install vacuum cover.

NOTE: Use of damaged seed or seed containing foreign material will cause plugging of seed cell orifices and require more frequent seed meter cleanout to prevent underplanting.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR CORN/POPCORN 39 CELL DISC

15 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)

APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
46,414	23,207	15	28	4 to 6	9.0
48,133	24,066	15	27	4 to 6	8.7
49,984	24,992	15	26	4 to 6	8.4
51,983	25,992	15	25	4 to 6	8.0
52,602	26,301	17	28	4 to 6	7.9
54,149	27,075	15	24	4 to 6	7.7
54,550	27,275	17	27	4 to 6	7.7
56,503	28,252	15	23	4 to 6	7.4
56,648	28,324	17	26	4 to 6	7.4
58,791	29,395	19	28	4 to 6	7.1
58,914	29,457	17	25	4 to 6	7.1
60,968	30,484	19	27	4 to 6	6.9
61,369	30,685	17	24	4 to 6	6.8
63,313	31,656	19	26	4 to 6	6.6
64,037	32,019	17	23	4 to 6	6.5
65,845	32,923	19	25	4 to 6	6.4
68,399	34,199	15	19	4 to 6	6.1
68,589	34,294	19	24	4 to 6	6.1
71,167	35,584	23	28	4 to 6	5.9
71,571	35,786	19	23	4 to 6	5.8
73,803	36,902	23	27	4 to 6	5.7
74,262	37,131	24	28	4 to 6	5.6
76,446	38,223	15	17	4 to 6	5.5
77,012	38,506	24	27	4 to 6	5.4
77,519	38,759	17	19	4 to 6	5.4
79,708	39,854	23	25	4 to 6	5.2
80,450	40,225	26	28	4 to 6	5.2
83,029	41,514	23	24	4 to 6	5.0
83,173	41,587	24	25	4 to 6	5.0
83,544	41,772	27	28	4 to 6	5.0
86,639	43,319	23	23	4 to 6	4.8
89,848	44,924	28	27	4 to 6	4.7
89,971	44,985	27	26	4 to 6	4.6
90,406	45,203	24	23	4 to 6	4.6
93,303	46,652	28	26	4 to 6	4.5
93,570	46,785	27	25	4 to 6	4.5
94,172	47,086	25	23	4 to 6	4.4
96,831	48,416	19	17	4 to 6	4.3
97,469	48,734	27	24	4 to 6	4.3
97,939	48,970	26	23	4 to 6	4.3
101,078	50,539	28	24	4 to 6	4.1
101,706	50,853	27	23	4 to 6	4.1
104,878	52,439	23	19	4 to 6	4.0
105,473	52,737	28	23	4 to 6	4.0
109,438	54,719	24	19	4 to 6	3.8
113,998	56,999	25	19	4 to 6	3.7
117,217	58,609	23	17	4 to 6	3.6
118,558	59,279	26	19	4 to 6	3.5
122,313	61,157	24	17	4 to 6	3.4
123,118	61,559	27	19	4 to 6	3.4
127,410	63,705	25	17	4 to 6	3.3
127,678	63,839	28	19	4 to 6	3.3
132,506	66,253	26	17	4 to 6	3.2
132,846	66,423	23	15	4 to 6	3.1
137,603	68,801	27	17	4 to 6	3.0

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR CORN/POPCORN 39 CELL DISC

19 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)

APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
58,791	29,395	15	28	4 to 6	7.1
60,968	30,484	15	27	4 to 6	6.9
63,313	31,656	15	26	4 to 6	6.6
65,845	32,923	15	25	4 to 6	6.4
66,629	33,315	17	28	4 to 6	6.3
68,589	34,294	15	24	4 to 6	6.1
69,097	34,549	17	27	4 to 6	6.1
71,571	35,786	15	23	4 to 6	5.8
71,755	35,877	17	26	4 to 6	5.8
74,468	37,234	19	28	4 to 6	5.6
74,625	37,312	17	25	4 to 6	5.6
77,226	38,613	19	27	4 to 6	5.4
77,734	38,867	17	24	4 to 6	5.4
80,196	40,098	19	26	4 to 6	5.2
81,114	40,557	17	23	4 to 6	5.2
83,404	41,702	19	25	4 to 6	5.0
86,639	43,319	15	19	4 to 6	4.8
86,879	43,440	19	24	4 to 6	4.8
90,145	45,073	23	28	4 to 6	4.6
90,657	45,328	19	23	4 to 6	4.6
93,484	46,742	23	27	4 to 6	4.5
94,065	47,032	24	28	4 to 6	4.4
96,831	48,416	15	17	4 to 6	4.3
97,549	48,774	24	27	4 to 6	4.3
98,191	49,095	17	19	4 to 6	4.3
100,963	50,481	23	25	4 to 6	4.1
101,904	50,952	26	28	4 to 6	4.1
105,170	52,585	23	24	4 to 6	4.0
105,353	52,676	24	25	4 to 6	4.0
105,823	52,911	27	28	4 to 6	4.0
109,742	54,871	23	23	4 to 6	3.8
113,807	56,903	28	27	4 to 6	3.7
113,963	56,982	27	26	4 to 6	3.7
114,514	57,257	24	23	4 to 6	3.7
118,184	59,092	28	26	4 to 6	3.5
118,522	59,261	27	25	4 to 6	3.5
119,285	59,643	25	23	4 to 6	3.5
122,653	61,327	19	17	4 to 6	3.4
123,460	61,730	27	24	4 to 6	3.4
124,057	62,028	26	23	4 to 6	3.4
128,033	64,016	28	24	4 to 6	3.3
128,828	64,414	27	23	4 to 6	3.2
132,846	66,423	23	19	4 to 6	3.1
133,599	66,800	28	23	4 to 6	3.1
138,622	69,311	24	19	4 to 6	3.0
144,398	72,199	25	19	4 to 6	2.9
148,475	74,237	23	17	4 to 6	2.8
150,174	75,087	26	19	4 to 6	2.8
154,930	77,465	24	17	4 to 6	2.7
155,950	77,975	27	19	4 to 6	2.7
161,386	80,693	25	17	4 to 6	2.6
161,726	80,863	28	19	4 to 6	2.6
167,841	83,921	26	17	4 to 6	2.5
168,272	84,136	23	15	4 to 6	2.5
174,297	87,148	27	17	4 to 6	2.4

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR LOW-RATE CORN/POPCORN 24 CELL DISC

15 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)

APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
28,562	14,281	15	28	4 to 6	14.6
29,620	14,810	15	27	4 to 6	14.1
30,759	15,380	15	26	4 to 6	13.6
31,990	15,995	15	25	4 to 6	13.1
32,370	16,185	17	28	4 to 6	12.9
33,323	16,661	15	24	4 to 6	12.5
33,569	16,785	17	27	4 to 6	12.5
34,771	17,386	15	23	4 to 6	12.0
34,861	17,430	17	26	4 to 6	12.0
36,179	18,089	19	28	4 to 6	11.6
36,255	18,127	17	25	4 to 6	11.5
37,519	18,759	19	27	4 to 6	11.1
37,766	18,883	17	24	4 to 6	11.1
38,962	19,481	19	26	4 to 6	10.7
39,408	19,704	17	23	4 to 6	10.6
40,520	20,260	19	25	4 to 6	10.3
42,092	21,046	15	19	4 to 6	9.9
42,209	21,104	19	24	4 to 6	9.9
43,795	21,898	23	28	4 to 6	9.5
44,044	22,022	19	23	4 to 6	9.5
45,417	22,709	23	27	4 to 6	9.2
45,700	22,850	24	28	4 to 6	9.2
47,044	23,522	15	17	4 to 6	8.9
47,392	23,696	24	27	4 to 6	8.8
47,704	23,852	17	19	4 to 6	8.8
49,051	24,525	23	25	4 to 6	8.5
49,508	24,754	26	28	4 to 6	8.4
51,095	25,547	23	24	4 to 6	8.2
51,183	25,592	24	25	4 to 6	8.2
51,412	25,706	27	28	4 to 6	8.1
53,316	26,658	23	23	4 to 6	7.8
55,291	27,645	28	27	4 to 6	7.6
55,367	27,683	27	26	4 to 6	7.6
55,634	27,817	24	23	4 to 6	7.5
57,417	28,709	28	26	4 to 6	7.3
57,581	28,791	27	25	4 to 6	7.3
57,952	28,976	25	23	4 to 6	7.2
59,589	29,794	19	17	4 to 6	7.0
59,981	29,990	27	24	4 to 6	7.0
60,270	30,135	26	23	4 to 6	6.9
62,202	31,101	28	24	4 to 6	6.7
62,588	31,294	27	23	4 to 6	6.7
64,541	32,270	23	19	4 to 6	6.5
64,907	32,453	28	23	4 to 6	6.4
67,347	33,673	24	19	4 to 6	6.2
70,153	35,076	25	19	4 to 6	6.0
72,134	36,067	23	17	4 to 6	5.8
72,959	36,479	26	19	4 to 6	5.7
75,270	37,635	24	17	4 to 6	5.6
75,765	37,883	27	19	4 to 6	5.5
78,406	39,203	25	17	4 to 6	5.3
78,571	39,286	28	19	4 to 6	5.3
81,542	40,771	26	17	4 to 6	5.1
81,751	40,876	23	15	4 to 6	5.1
84,679	42,339	27	17	4 to 6	4.9

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR LOW-RATE CORN/POPCORN 24 CELL DISC

19 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)

APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
36,179	18,089	15	28	4 to 6	11.6
37,519	18,759	15	27	4 to 6	11.1
38,962	19,481	15	26	4 to 6	10.7
40,520	20,260	15	25	4 to 6	10.3
41,003	20,501	17	28	4 to 6	10.2
42,209	21,104	15	24	4 to 6	9.9
42,521	21,261	17	27	4 to 6	9.8
44,044	22,022	15	23	4 to 6	9.5
44,157	22,078	17	26	4 to 6	9.5
45,826	22,913	19	28	4 to 6	9.1
45,923	22,961	17	25	4 to 6	9.1
47,524	23,762	19	27	4 to 6	8.8
47,836	23,918	17	24	4 to 6	8.7
49,352	24,676	19	26	4 to 6	8.5
49,916	24,958	17	23	4 to 6	8.4
51,326	25,663	19	25	4 to 6	8.1
53,316	26,658	15	19	4 to 6	7.8
53,464	26,732	19	24	4 to 6	7.8
55,474	27,737	23	28	4 to 6	7.5
55,789	27,894	19	23	4 to 6	7.5
57,529	28,764	23	27	4 to 6	7.3
57,886	28,943	24	28	4 to 6	7.2
59,589	29,794	15	17	4 to 6	7.0
60,030	30,015	24	27	4 to 6	7.0
60,425	30,212	17	19	4 to 6	6.9
62,131	31,066	23	25	4 to 6	6.7
62,710	31,355	26	28	4 to 6	6.7
64,720	32,360	23	24	4 to 6	6.5
64,832	32,416	24	25	4 to 6	6.5
65,122	32,561	27	28	4 to 6	6.4
67,534	33,767	23	23	4 to 6	6.2
70,035	35,017	28	27	4 to 6	6.0
70,131	35,066	27	26	4 to 6	6.0
70,470	35,235	24	23	4 to 6	5.9
72,729	36,364	28	26	4 to 6	5.7
72,936	36,468	27	25	4 to 6	5.7
73,406	36,703	25	23	4 to 6	5.7
75,479	37,739	19	17	4 to 6	5.5
75,975	37,988	27	24	4 to 6	5.5
76,342	38,171	26	23	4 to 6	5.5
78,789	39,395	28	24	4 to 6	5.3
79,279	39,639	27	23	4 to 6	5.3
81,751	40,876	23	19	4 to 6	5.1
82,215	41,107	28	23	4 to 6	5.1
85,306	42,653	24	19	4 to 6	4.9
88,860	44,430	25	19	4 to 6	4.7
91,369	45,685	23	17	4 to 6	4.6
92,415	46,207	26	19	4 to 6	4.5
95,342	47,671	24	17	4 to 6	4.4
95,969	47,985	27	19	4 to 6	4.4
99,314	49,657	25	17	4 to 6	4.2
99,523	49,762	28	19	4 to 6	4.2
103,287	51,643	26	17	4 to 6	4.0
103,552	51,776	23	15	4 to 6	4.0
107,259	53,630	27	17	4 to 6	3.9

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

**PLANTING RATES FOR SOYBEAN AND MILO/GRAIN SORGHUM 60 CELL DISCS
15 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)
APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS**

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
71,406	35,703	15	28	4 to 6	5.9
74,050	37,025	15	27	4 to 6	5.6
76,898	38,449	15	26	4 to 6	5.4
79,974	39,987	15	25	4 to 6	5.2
80,926	40,463	17	28	4 to 6	5.2
83,306	41,653	15	24	4 to 6	5.0
83,924	41,962	17	27	4 to 6	5.0
86,928	43,464	15	23	4 to 6	4.8
87,151	43,576	17	26	4 to 6	4.8
90,447	45,223	19	28	4 to 6	4.6
90,637	45,319	17	25	4 to 6	4.6
93,797	46,898	19	27	4 to 6	4.5
94,414	47,207	17	24	4 to 6	4.4
97,404	48,702	19	26	4 to 6	4.3
98,519	49,259	17	23	4 to 6	4.2
101,301	50,650	19	25	4 to 6	4.1
105,229	52,615	15	19	4 to 6	4.0
105,521	52,761	19	24	4 to 6	4.0
109,488	54,744	23	28	4 to 6	3.8
110,109	55,055	19	23	4 to 6	3.8
113,544	56,772	23	27	4 to 6	3.7
114,249	57,124	24	28	4 to 6	3.7
117,609	58,805	15	17	4 to 6	3.6
118,480	59,240	24	27	4 to 6	3.5
119,260	59,630	17	19	4 to 6	3.5
122,627	61,314	23	25	4 to 6	3.4
123,770	61,885	26	28	4 to 6	3.4
127,737	63,868	23	24	4 to 6	3.3
127,959	63,979	24	25	4 to 6	3.3
128,530	64,265	27	28	4 to 6	3.3
133,290	66,645	23	23	4 to 6	3.1
138,227	69,113	28	27	4 to 6	3.0
138,417	69,208	27	26	4 to 6	3.0
139,086	69,543	24	23	4 to 6	3.0
143,543	71,772	28	26	4 to 6	2.9
143,954	71,977	27	25	4 to 6	2.9
144,881	72,440	25	23	4 to 6	2.9
148,971	74,486	19	17	4 to 6	2.8
149,952	74,976	27	24	4 to 6	2.8
150,676	75,338	26	23	4 to 6	2.8
155,505	77,753	28	24	4 to 6	2.7
156,471	78,236	27	23	4 to 6	2.7
161,351	80,676	23	19	4 to 6	2.6
162,266	81,133	28	23	4 to 6	2.6
168,367	84,183	24	19	4 to 6	2.5
175,382	87,691	25	19	4 to 6	2.4
180,334	90,167	23	17	4 to 6	2.3
182,397	91,199	26	19	4 to 6	2.3
188,175	94,087	24	17	4 to 6	2.2
189,413	94,706	27	19	4 to 6	2.2
196,015	98,008	25	17	4 to 6	2.1
196,428	98,214	28	19	4 to 6	2.1
203,856	101,928	26	17	4 to 6	2.1
204,378	102,189	23	15	4 to 6	2.0
211,696	105,848	27	17	4 to 6	2.0

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

**PLANTING RATES FOR SOYBEAN AND MILO/GRAIN SORGHUM 60 CELL DISCS
19 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)
APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS**

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
90,447	45,223	15	28	4 to 6	4.6
93,797	46,898	15	27	4 to 6	4.5
97,404	48,702	15	26	4 to 6	4.3
101,301	50,650	15	25	4 to 6	4.1
102,507	51,253	17	28	4 to 6	4.1
105,521	52,761	15	24	4 to 6	4.0
106,303	53,152	17	27	4 to 6	3.9
110,109	55,055	15	23	4 to 6	3.8
110,392	55,196	17	26	4 to 6	3.8
114,566	57,283	19	28	4 to 6	3.7
114,807	57,404	17	25	4 to 6	3.6
118,809	59,405	19	27	4 to 6	3.5
119,591	59,796	17	24	4 to 6	3.5
123,379	61,689	19	26	4 to 6	3.4
124,791	62,395	17	23	4 to 6	3.4
128,314	64,157	19	25	4 to 6	3.3
133,290	66,645	15	19	4 to 6	3.1
133,661	66,830	19	24	4 to 6	3.1
138,685	69,343	23	28	4 to 6	3.0
139,472	69,736	19	23	4 to 6	3.0
143,822	71,911	23	27	4 to 6	2.9
144,715	72,358	24	28	4 to 6	2.9
148,971	74,486	15	17	4 to 6	2.8
150,075	75,037	24	27	4 to 6	2.8
151,062	75,531	17	19	4 to 6	2.8
155,328	77,664	23	25	4 to 6	2.7
156,775	78,387	26	28	4 to 6	2.7
161,800	80,900	23	24	4 to 6	2.6
162,081	81,040	24	25	4 to 6	2.6
162,805	81,402	27	28	4 to 6	2.6
168,834	84,417	23	23	4 to 6	2.5
175,087	87,544	28	27	4 to 6	2.4
175,328	87,664	27	26	4 to 6	2.4
176,175	88,087	24	23	4 to 6	2.4
181,822	90,911	28	26	4 to 6	2.3
182,341	91,171	27	25	4 to 6	2.3
183,516	91,758	25	23	4 to 6	2.3
188,697	94,349	19	17	4 to 6	2.2
189,939	94,969	27	24	4 to 6	2.2
190,856	95,428	26	23	4 to 6	2.2
196,973	98,487	28	24	4 to 6	2.1
198,197	99,098	27	23	4 to 6	2.1
204,378	102,189	23	19	4 to 6	2.0
205,537	102,769	28	23	4 to 6	2.0
213,264	106,632	24	19	4 to 6	2.0
222,150	111,075	25	19	4 to 6	1.9
228,423	114,211	23	17	4 to 6	1.8
231,036	115,518	26	19	4 to 6	1.8
238,354	119,177	24	17	4 to 6	1.8
239,923	119,961	27	19	4 to 6	1.7
248,286	124,143	25	17	4 to 6	1.7
248,809	124,404	28	19	4 to 6	1.7
	129,109	26	17	4 to 6	1.6
	129,440	23	15	4 to 6	1.6
	134,074	27	17	4 to 6	1.6

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR SOYBEAN 60 CELL DISC

30 TOOTH CONTACT WHEEL DRIVE/17 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)

APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
193,217	96,608	15	28	4 to 6	2.2
200,373	100,186	15	27	4 to 6	2.1
208,079	104,040	15	26	4 to 6	2.0
216,403	108,201	15	25	4 to 6	1.9
218,979	109,489	17	28	4 to 6	1.9
225,419	112,710	15	24	4 to 6	1.9
227,089	113,545	17	27	4 to 6	1.8
235,220	117,610	15	23	4 to 6	1.8
235,823	117,912	17	26	4 to 6	1.8
244,741	122,371	19	28	4 to 6	1.7
245,256	122,628	17	25	4 to 6	1.7
	126,903	19	27	4 to 6	1.6
	127,738	17	24	4 to 6	1.6
	131,784	19	26	4 to 6	1.6
	133,291	17	23	4 to 6	1.6
	137,055	19	25	4 to 6	1.5
	142,370	15	19	4 to 6	1.5
	142,766	19	24	4 to 6	1.5
	148,133	23	28	4 to 6	1.4
	148,973	19	23	4 to 6	1.4
	153,619	23	27	4 to 6	1.4
	154,573	24	28	4 to 6	1.4
	159,120	15	17	4 to 6	1.3
	160,298	24	27	4 to 6	1.3
	161,353	17	19	4 to 6	1.3
	165,909	23	25	4 to 6	1.3
	167,454	26	28	4 to 6	1.2
	172,822	23	24	4 to 6	1.2
	173,122	24	25	4 to 6	1.2
	173,895	27	28	4 to 6	1.2
	180,336	23	23	4 to 6	1.2
	187,015	28	27	4 to 6	1.1
	187,272	27	26	4 to 6	1.1
	188,176	24	23	4 to 6	1.1
	194,207	28	26	4 to 6	1.1
	194,762	27	25	4 to 6	1.1
	196,017	25	23	4 to 6	1.1
	201,551	19	17	4 to 6	1.0
	202,877	27	24	4 to 6	1.0
	203,858	26	23	4 to 6	1.0
	210,391	28	24	4 to 6	1.0
	211,698	27	23	4 to 6	1.0
	218,301	23	19	4 to 6	1.0
	219,539	28	23	4 to 6	1.0
	227,792	24	19	4 to 6	0.9
	237,284	25	19	4 to 6	0.9
	243,983	23	17	4 to 6	0.9
	246,775	26	19	4 to 6	0.8
		24	17	4 to 6	0.8
		27	19	4 to 6	0.8
		25	17	4 to 6	0.8
		28	19	4 to 6	0.8
		26	17	4 to 6	0.8
		23	15	4 to 6	0.8
		27	17	4 to 6	0.7

NOTE: Planting rates over 250,000 seeds/acre are not recommended with subject seed disc and/or drive ratio.

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR HIGH-RATE SOYBEAN 120 CELL DISC

15 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)

APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
142,811	71,406	15	28	4 to 6	2.9
148,100	74,050	15	27	4 to 6	2.8
153,796	76,898	15	26	4 to 6	2.7
159,948	79,974	15	25	4 to 6	2.6
161,852	80,926	17	28	4 to 6	2.6
166,613	83,306	15	24	4 to 6	2.5
167,847	83,924	17	27	4 to 6	2.5
173,857	86,928	15	23	4 to 6	2.4
174,303	87,151	17	26	4 to 6	2.4
180,894	90,447	19	28	4 to 6	2.3
181,275	90,637	17	25	4 to 6	2.3
187,594	93,797	19	27	4 to 6	2.2
188,828	94,414	17	24	4 to 6	2.2
194,809	97,404	19	26	4 to 6	2.1
197,038	98,519	17	23	4 to 6	2.1
202,601	101,301	19	25	4 to 6	2.1
210,458	105,229	15	19	4 to 6	2.0
211,043	105,521	19	24	4 to 6	2.0
218,977	109,488	23	28	4 to 6	1.9
220,219	110,109	19	23	4 to 6	1.9
227,087	113,544	23	27	4 to 6	1.8
228,498	114,249	24	28	4 to 6	1.8
235,218	117,609	15	17	4 to 6	1.8
236,961	118,480	24	27	4 to 6	1.8
238,519	119,260	17	19	4 to 6	1.8
245,254	122,627	23	25	4 to 6	1.7
247,539	123,770	26	28	4 to 6	1.7
	127,737	23	24	4 to 6	1.6
	127,959	24	25	4 to 6	1.6
	128,530	27	28	4 to 6	1.6
	133,290	23	23	4 to 6	1.6
	138,227	28	27	4 to 6	1.5
	138,417	27	26	4 to 6	1.5
	139,086	24	23	4 to 6	1.5
	143,543	28	26	4 to 6	1.5
	143,954	27	25	4 to 6	1.5
	144,881	25	23	4 to 6	1.4
	148,971	19	17	4 to 6	1.4
	149,952	27	24	4 to 6	1.4
	150,676	26	23	4 to 6	1.4
	155,505	28	24	4 to 6	1.3
	156,471	27	23	4 to 6	1.3
	161,351	23	19	4 to 6	1.3
	162,266	28	23	4 to 6	1.3
	168,367	24	19	4 to 6	1.2
	175,382	25	19	4 to 6	1.2
	180,334	23	17	4 to 6	1.2
	182,397	26	19	4 to 6	1.1
	188,175	24	17	4 to 6	1.1
	189,413	27	19	4 to 6	1.1
	196,015	25	17	4 to 6	1.1
	196,428	28	19	4 to 6	1.1
	203,856	26	17	4 to 6	1.0
	204,378	23	15	4 to 6	1.0
	211,696	27	17	4 to 6	1.0

NOTE: Planting rates over 250,000 seeds/acre are not recommended with subject seed disc and/or drive ratio.

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR HIGH-RATE SOYBEAN 120 CELL DISC

19 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)

APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
180,894	90,447	15	28	4 to 6	2.3
187,594	93,797	15	27	4 to 6	2.2
194,809	97,404	15	26	4 to 6	2.1
202,601	101,301	15	25	4 to 6	2.1
205,013	102,507	17	28	4 to 6	2.0
211,043	105,521	15	24	4 to 6	2.0
212,606	106,303	17	27	4 to 6	2.0
220,219	110,109	15	23	4 to 6	1.9
220,783	110,392	17	26	4 to 6	1.9
229,132	114,566	19	28	4 to 6	1.8
229,615	114,807	17	25	4 to 6	1.8
237,619	118,809	19	27	4 to 6	1.8
239,182	119,591	17	24	4 to 6	1.7
246,758	123,379	19	26	4 to 6	1.7
249,581	124,791	17	23	4 to 6	1.7
	128,314	19	25	4 to 6	1.6
	133,290	15	19	4 to 6	1.6
	133,661	19	24	4 to 6	1.6
	138,685	23	28	4 to 6	1.5
	139,472	19	23	4 to 6	1.5
	143,822	23	27	4 to 6	1.5
	144,715	24	28	4 to 6	1.4
	148,971	15	17	4 to 6	1.4
	150,075	24	27	4 to 6	1.4
	151,062	17	19	4 to 6	1.4
	155,328	23	25	4 to 6	1.3
	156,775	26	28	4 to 6	1.3
	161,800	23	24	4 to 6	1.3
NOTE: Planting rates over 250,000 seeds/acre are not recommended with subject seed disc and/or drive ratio.	162,081	24	25	4 to 6	1.3
	162,805	27	28	4 to 6	1.3
	168,834	23	23	4 to 6	1.2
	175,087	28	27	4 to 6	1.2
	175,328	27	26	4 to 6	1.2
	176,175	24	23	4 to 6	1.2
	181,822	28	26	4 to 6	1.1
	182,341	27	25	4 to 6	1.1
	183,516	25	23	4 to 6	1.1
	188,697	19	17	4 to 6	1.1
	189,939	27	24	4 to 6	1.1
	190,856	26	23	4 to 6	1.1
	196,973	28	24	4 to 6	1.1
	198,197	27	23	4 to 6	1.1
	204,378	23	19	4 to 6	1.0
	205,537	28	23	4 to 6	1.0
	213,264	24	19	4 to 6	1.0
	222,150	25	19	4 to 6	0.9
	228,423	23	17	4 to 6	0.9
	231,036	26	19	4 to 6	0.9
	238,354	24	17	4 to 6	0.9
	239,923	27	19	4 to 6	0.9
	248,286	25	17	4 to 6	0.8
	248,809	28	19	4 to 6	0.8
		26	17	4 to 6	0.8
		23	15	4 to 6	0.8
		27	17	4 to 6	0.8

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR ACID-DELINTED HILL-DROP COTTON (3 SEEDS PER CELL) 20 CELL DISCS
 15 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)
 APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
23,802	11,901	15	28	4 to 6	17.6
24,683	12,342	15	27	4 to 6	16.9
25,633	12,816	15	26	4 to 6	16.3
26,658	13,329	15	25	4 to 6	15.7
26,975	13,488	17	28	4 to 6	15.5
27,769	13,884	15	24	4 to 6	15.1
27,975	13,987	17	27	4 to 6	14.9
28,976	14,488	15	23	4 to 6	14.4
29,050	14,525	17	26	4 to 6	14.4
30,149	15,074	19	28	4 to 6	13.9
30,212	15,106	17	25	4 to 6	13.8
31,266	15,633	19	27	4 to 6	13.4
31,471	15,736	17	24	4 to 6	13.3
32,468	16,234	19	26	4 to 6	12.9
32,840	16,420	17	23	4 to 6	12.7
33,767	16,883	19	25	4 to 6	12.4
35,076	17,538	15	19	4 to 6	11.9
35,174	17,587	19	24	4 to 6	11.9
36,496	18,248	23	28	4 to 6	11.5
36,703	18,352	19	23	4 to 6	11.4
37,848	18,924	23	27	4 to 6	11.0
38,083	19,041	24	28	4 to 6	11.0
39,203	19,602	15	17	4 to 6	10.7
39,304	19,652	23	26	4 to 6	10.6
39,493	19,747	24	27	4 to 6	10.6
39,670	19,835	25	28	4 to 6	10.5
39,753	19,877	17	19	4 to 6	10.5
40,876	20,438	23	25	4 to 6	10.2
41,012	20,506	24	26	4 to 6	10.2
41,139	20,569	25	27	4 to 6	10.2
41,257	20,628	26	28	4 to 6	10.1
42,579	21,289	23	24	4 to 6	9.8
42,653	21,326	24	25	4 to 6	9.8
42,721	21,361	25	26	4 to 6	9.8
42,785	21,392	26	27	4 to 6	9.8
42,843	21,422	27	28	4 to 6	9.8
44,430	22,215	23	23	4 to 6	9.4
46,076	23,038	28	27	4 to 6	9.1
46,139	23,069	27	26	4 to 6	9.1
46,281	23,141	25	24	4 to 6	9.0
46,362	23,181	24	23	4 to 6	9.0
47,848	23,924	28	26	4 to 6	8.7
47,985	23,992	27	25	4 to 6	8.7
48,294	24,147	25	23	4 to 6	8.7
49,657	24,829	19	17	4 to 6	8.4
49,762	24,881	28	25	4 to 6	8.4
49,984	24,992	27	24	4 to 6	8.4
50,225	25,113	26	23	4 to 6	8.3
51,835	25,918	28	24	4 to 6	8.1
52,157	26,079	27	23	4 to 6	8.0
53,784	26,892	23	19	4 to 6	7.8
54,089	27,044	28	23	4 to 6	7.7
56,122	28,061	24	19	4 to 6	7.5
58,461	29,230	25	19	4 to 6	7.2
60,111	30,056	23	17	4 to 6	7.0

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR ACID-DELINTED HILL-DROP COTTON (3 SEEDS PER CELL) 20 CELL DISCS
 19 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)
 APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
30,149	15,074	15	28	4 to 6	13.9
31,266	15,633	15	27	4 to 6	13.4
32,468	16,234	15	26	4 to 6	12.9
33,767	16,883	15	25	4 to 6	12.4
34,169	17,084	17	28	4 to 6	12.2
35,174	17,587	15	24	4 to 6	11.9
35,434	17,717	17	27	4 to 6	11.8
36,703	18,352	15	23	4 to 6	11.4
36,797	18,399	17	26	4 to 6	11.4
38,189	19,094	19	28	4 to 6	11.0
38,269	19,135	17	25	4 to 6	10.9
39,603	19,802	19	27	4 to 6	10.6
39,864	19,932	17	24	4 to 6	10.5
41,126	20,563	19	26	4 to 6	10.2
41,597	20,798	17	23	4 to 6	10.1
42,771	21,386	19	25	4 to 6	9.8
44,430	22,215	15	19	4 to 6	9.4
44,554	22,277	19	24	4 to 6	9.4
46,228	23,114	23	28	4 to 6	9.0
46,491	23,245	19	23	4 to 6	9.0
47,941	23,970	23	27	4 to 6	8.7
48,238	24,119	24	28	4 to 6	8.7
49,657	24,829	15	17	4 to 6	8.4
49,784	24,892	23	26	4 to 6	8.4
50,025	25,012	24	27	4 to 6	8.4
50,248	25,124	25	28	4 to 6	8.3
50,354	25,177	17	19	4 to 6	8.3
51,776	25,888	23	25	4 to 6	8.1
51,949	25,975	24	26	4 to 6	8.0
52,109	26,055	25	27	4 to 6	8.0
52,258	26,129	26	28	4 to 6	8.0
53,933	26,967	23	24	4 to 6	7.8
54,027	27,013	24	25	4 to 6	7.7
54,114	27,057	25	26	4 to 6	7.7
54,194	27,097	26	27	4 to 6	7.7
54,268	27,134	27	28	4 to 6	7.7
56,278	28,139	23	23	4 to 6	7.4
58,362	29,181	28	27	4 to 6	7.2
58,443	29,221	27	26	4 to 6	7.2
58,623	29,312	25	24	4 to 6	7.1
58,725	29,362	24	23	4 to 6	7.1
60,607	30,304	28	26	4 to 6	6.9
60,780	30,390	27	25	4 to 6	6.9
61,172	30,586	25	23	4 to 6	6.8
62,899	31,450	19	17	4 to 6	6.6
63,031	31,516	28	25	4 to 6	6.6
63,313	31,656	27	24	4 to 6	6.6
63,619	31,809	26	23	4 to 6	6.6
65,658	32,829	28	24	4 to 6	6.4
66,066	33,033	27	23	4 to 6	6.3
68,126	34,063	23	19	4 to 6	6.1
68,512	34,256	28	23	4 to 6	6.1
71,088	35,544	24	19	4 to 6	5.9
74,050	37,025	25	19	4 to 6	5.6
76,141	38,070	23	17	4 to 6	5.5

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

**PLANTING RATES FOR SMALL COTTON/SMALL DRY EDIBLE BEAN/SUNFLOWER 54 CELL DISC
15 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)
APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS**

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
64,265	32,132	15	28	4 to 6	6.5
66,645	33,323	15	27	4 to 6	6.3
69,208	34,604	15	26	4 to 6	6.0
71,977	35,988	15	25	4 to 6	5.8
72,834	36,417	17	28	4 to 6	5.7
74,976	37,488	15	24	4 to 6	5.6
75,531	37,766	17	27	4 to 6	5.5
78,236	39,118	15	23	4 to 6	5.3
78,436	39,218	17	26	4 to 6	5.3
81,402	40,701	19	28	4 to 6	5.1
81,574	40,787	17	25	4 to 6	5.1
84,417	42,209	19	27	4 to 6	5.0
84,973	42,486	17	24	4 to 6	4.9
87,664	43,832	19	26	4 to 6	4.8
88,667	44,334	17	23	4 to 6	4.7
91,171	45,585	19	25	4 to 6	4.6
94,706	47,353	15	19	4 to 6	4.4
94,969	47,485	19	24	4 to 6	4.4
98,540	49,270	23	28	4 to 6	4.2
99,098	49,549	19	23	4 to 6	4.2
102,189	51,095	23	27	4 to 6	4.1
102,824	51,412	24	28	4 to 6	4.1
105,848	52,924	15	17	4 to 6	4.0
106,632	53,316	24	27	4 to 6	3.9
107,334	53,667	17	19	4 to 6	3.9
110,364	55,182	23	25	4 to 6	3.8
111,393	55,696	26	28	4 to 6	3.8
114,963	57,481	23	24	4 to 6	3.6
115,163	57,581	24	25	4 to 6	3.6
115,677	57,838	27	28	4 to 6	3.6
119,961	59,981	23	23	4 to 6	3.5
124,404	62,202	28	27	4 to 6	3.4
124,575	62,288	27	26	4 to 6	3.4
125,177	62,588	24	23	4 to 6	3.3
129,189	64,595	28	26	4 to 6	3.2
129,558	64,779	27	25	4 to 6	3.2
130,393	65,196	25	23	4 to 6	3.2
134,074	67,037	19	17	4 to 6	3.1
134,956	67,478	27	24	4 to 6	3.1
135,608	67,804	26	23	4 to 6	3.1
139,955	69,977	28	24	4 to 6	3.0
140,824	70,412	27	23	4 to 6	3.0
145,216	72,608	23	19	4 to 6	2.9
146,040	73,020	28	23	4 to 6	2.9
151,530	75,765	24	19	4 to 6	2.8
157,844	78,922	25	19	4 to 6	2.6
162,301	81,150	23	17	4 to 6	2.6
164,158	82,079	26	19	4 to 6	2.5
169,357	84,679	24	17	4 to 6	2.5
170,471	85,236	27	19	4 to 6	2.5
176,414	88,207	25	17	4 to 6	2.4
176,785	88,393	28	19	4 to 6	2.4
183,470	91,735	26	17	4 to 6	2.3
183,941	91,970	23	15	4 to 6	2.3
190,527	95,263	27	17	4 to 6	2.2

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

**PLANTING RATES FOR SMALL COTTON/SMALL DRY EDIBLE BEAN/SUNFLOWER 54 CELL DISC
19 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)
APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS**

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
81,402	40,701	15	28	4 to 6	5.1
84,417	42,209	15	27	4 to 6	5.0
87,664	43,832	15	26	4 to 6	4.8
91,171	45,585	15	25	4 to 6	4.6
92,256	46,128	17	28	4 to 6	4.5
94,969	47,485	15	24	4 to 6	4.4
95,673	47,836	17	27	4 to 6	4.4
99,098	49,549	15	23	4 to 6	4.2
99,353	49,676	17	26	4 to 6	4.2
103,110	51,555	19	28	4 to 6	4.1
103,327	51,663	17	25	4 to 6	4.0
106,928	53,464	19	27	4 to 6	3.9
107,632	53,816	17	24	4 to 6	3.9
111,041	55,521	19	26	4 to 6	3.8
112,312	56,156	17	23	4 to 6	3.7
115,483	57,741	19	25	4 to 6	3.6
119,961	59,981	15	19	4 to 6	3.5
120,294	60,147	19	24	4 to 6	3.5
124,817	62,408	23	28	4 to 6	3.4
125,525	62,762	19	23	4 to 6	3.3
129,440	64,720	23	27	4 to 6	3.2
130,244	65,122	24	28	4 to 6	3.2
134,074	67,037	15	17	4 to 6	3.1
135,067	67,534	24	27	4 to 6	3.1
135,956	67,978	17	19	4 to 6	3.1
139,795	69,897	23	25	4 to 6	3.0
141,097	70,549	26	28	4 to 6	3.0
145,620	72,810	23	24	4 to 6	2.9
145,873	72,936	24	25	4 to 6	2.9
146,524	73,262	27	28	4 to 6	2.9
151,951	75,975	23	23	4 to 6	2.8
157,579	78,789	28	27	4 to 6	2.7
157,795	78,898	27	26	4 to 6	2.7
158,557	79,279	24	23	4 to 6	2.6
163,639	81,820	28	26	4 to 6	2.6
164,107	82,053	27	25	4 to 6	2.5
165,164	82,582	25	23	4 to 6	2.5
169,828	84,914	19	17	4 to 6	2.5
170,945	85,472	27	24	4 to 6	2.4
171,771	85,885	26	23	4 to 6	2.4
177,276	88,638	28	24	4 to 6	2.4
178,377	89,189	27	23	4 to 6	2.3
183,941	91,970	23	19	4 to 6	2.3
184,984	92,492	28	23	4 to 6	2.3
191,938	95,969	24	19	4 to 6	2.2
199,935	99,968	25	19	4 to 6	2.1
205,581	102,790	23	17	4 to 6	2.0
207,933	103,966	26	19	4 to 6	2.0
214,519	107,259	24	17	4 to 6	1.9
215,930	107,965	27	19	4 to 6	1.9
223,457	111,729	25	17	4 to 6	1.9
223,928	111,964	28	19	4 to 6	1.9
232,396	116,198	26	17	4 to 6	1.8
232,991	116,496	23	15	4 to 6	1.8
241,334	120,667	27	17	4 to 6	1.7

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR LARGE DRY EDIBLE BEAN 54 CELL DISC

15 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)

APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
64,265	32,132	15	28	4 to 6	6.5
66,645	33,323	15	27	4 to 6	6.3
69,208	34,604	15	26	4 to 6	6.0
71,977	35,988	15	25	4 to 6	5.8
72,834	36,417	17	28	4 to 6	5.7
74,976	37,488	15	24	4 to 6	5.6
75,531	37,766	17	27	4 to 6	5.5
78,236	39,118	15	23	4 to 6	5.3
78,436	39,218	17	26	4 to 6	5.3
81,402	40,701	19	28	4 to 6	5.1
81,574	40,787	17	25	4 to 6	5.1
84,417	42,209	19	27	4 to 6	5.0
84,973	42,486	17	24	4 to 6	4.9
87,664	43,832	19	26	4 to 6	4.8
88,667	44,334	17	23	4 to 6	4.7
91,171	45,585	19	25	4 to 6	4.6
94,706	47,353	15	19	4 to 6	4.4
94,969	47,485	19	24	4 to 6	4.4
98,540	49,270	23	28	4 to 6	4.2
99,098	49,549	19	23	4 to 6	4.2
102,189	51,095	23	27	4 to 6	4.1
102,824	51,412	24	28	4 to 6	4.1
105,848	52,924	15	17	4 to 6	4.0
106,632	53,316	24	27	4 to 6	3.9
107,334	53,667	17	19	4 to 6	3.9
110,364	55,182	23	25	4 to 6	3.8
111,393	55,696	26	28	4 to 6	3.8
114,963	57,481	23	24	4 to 6	3.6
115,163	57,581	24	25	4 to 6	3.6
115,677	57,838	27	28	4 to 6	3.6
119,961	59,981	23	23	4 to 6	3.5
124,404	62,202	28	27	4 to 6	3.4
124,575	62,288	27	26	4 to 6	3.4
125,177	62,588	24	23	4 to 6	3.3
129,189	64,595	28	26	4 to 6	3.2
129,558	64,779	27	25	4 to 6	3.2
130,393	65,196	25	23	4 to 6	3.2
134,074	67,037	19	17	4 to 6	3.1
134,956	67,478	27	24	4 to 6	3.1
135,608	67,804	26	23	4 to 6	3.1
139,955	69,977	28	24	4 to 6	3.0
140,824	70,412	27	23	4 to 6	3.0
145,216	72,608	23	19	4 to 6	2.9
146,040	73,020	28	23	4 to 6	2.9
151,530	75,765	24	19	4 to 6	2.8
157,844	78,922	25	19	4 to 6	2.6
162,301	81,150	23	17	4 to 6	2.6
164,158	82,079	26	19	4 to 6	2.5
169,357	84,679	24	17	4 to 6	2.5
170,471	85,236	27	19	4 to 6	2.5
176,414	88,207	25	17	4 to 6	2.4
176,785	88,393	28	19	4 to 6	2.4
183,470	91,735	26	17	4 to 6	2.3
183,941	91,970	23	15	4 to 6	2.3
190,527	95,263	27	17	4 to 6	2.2

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

PLANTING RATES FOR LARGE DRY EDIBLE BEAN 54 CELL DISC

19 TOOTH CONTACT WHEEL DRIVE/23 TOOTH REVERSER DRIVEN SPROCKETS (See Page 7-1)

APPROXIMATE SEEDS/ACRE FOR VARIOUS ROW WIDTHS

15" Rows	30" Rows	Transmission Sprockets		Recomm. Speed (MPH)	Average Spacing In Inches
		Drive	Driven		
81,402	40,701	15	28	4 to 6	5.1
84,417	42,209	15	27	4 to 6	5.0
87,664	43,832	15	26	4 to 6	4.8
91,171	45,585	15	25	4 to 6	4.6
92,256	46,128	17	28	4 to 6	4.5
94,969	47,485	15	24	4 to 6	4.4
95,673	47,836	17	27	4 to 6	4.4
99,098	49,549	15	23	4 to 6	4.2
99,353	49,676	17	26	4 to 6	4.2
103,110	51,555	19	28	4 to 6	4.1
103,327	51,663	17	25	4 to 6	4.0
106,928	53,464	19	27	4 to 6	3.9
107,632	53,816	17	24	4 to 6	3.9
111,041	55,521	19	26	4 to 6	3.8
112,312	56,156	17	23	4 to 6	3.7
115,483	57,741	19	25	4 to 6	3.6
119,961	59,981	15	19	4 to 6	3.5
120,294	60,147	19	24	4 to 6	3.5
124,817	62,408	23	28	4 to 6	3.4
125,525	62,762	19	23	4 to 6	3.3
129,440	64,720	23	27	4 to 6	3.2
130,244	65,122	24	28	4 to 6	3.2
134,074	67,037	15	17	4 to 6	3.1
135,067	67,534	24	27	4 to 6	3.1
135,956	67,978	17	19	4 to 6	3.1
139,795	69,897	23	25	4 to 6	3.0
141,097	70,549	26	28	4 to 6	3.0
145,620	72,810	23	24	4 to 6	2.9
145,873	72,936	24	25	4 to 6	2.9
146,524	73,262	27	28	4 to 6	2.9
151,951	75,975	23	23	4 to 6	2.8
157,579	78,789	28	27	4 to 6	2.7
157,795	78,898	27	26	4 to 6	2.7
158,557	79,279	24	23	4 to 6	2.6
163,639	81,820	28	26	4 to 6	2.6
164,107	82,053	27	25	4 to 6	2.5
165,164	82,582	25	23	4 to 6	2.5
169,828	84,914	19	17	4 to 6	2.5
170,945	85,472	27	24	4 to 6	2.4
171,771	85,885	26	23	4 to 6	2.4
177,276	88,638	28	24	4 to 6	2.4
178,377	89,189	27	23	4 to 6	2.3
183,941	91,970	23	19	4 to 6	2.3
184,984	92,492	28	23	4 to 6	2.3
191,938	95,969	24	19	4 to 6	2.2
199,935	99,968	25	19	4 to 6	2.1
205,581	102,790	23	17	4 to 6	2.0
207,933	103,966	26	19	4 to 6	2.0
214,519	107,259	24	17	4 to 6	1.9
215,930	107,965	27	19	4 to 6	1.9
223,457	111,729	25	17	4 to 6	1.9
223,928	111,964	28	19	4 to 6	1.9
232,396	116,198	26	17	4 to 6	1.8
232,991	116,496	23	15	4 to 6	1.8
241,334	120,667	27	17	4 to 6	1.7

IMPORTANT: See "General Planting Rate Information" and "Checking Seed Population" pages for additional information. Always check seed population in the field to ensure planting rates are correct.

SEED METER OPERATION/MAINTENANCE

DRY INSECTICIDE APPLICATION RATES APPROXIMATE POUNDS/ACRE AT 5 MPH FOR 30" ROW WIDTH

Meter Setting	30" Rows
CLAY GRANULES	
10	4.9
11	5.4
12	6.1
13	6.9
14	7.7
15	8.5
16	9.6
17	10.7
18	11.4
19	13.1
20	14.2
21	15.5
22	16.4
23	17.2
24	18.8
25	20.9
26	23.0
27	24.1
28	25.4
29	27.8
30	29.6
SAND GRANULES	
5	2.9
6	4.9
7	5.3
8	6.3
9	7.8
10	8.9
11	10.2
12	11.2
13	12.6
14	14.1
15	15.5
16	17.5
17	19.4
18	21.8
19	24.3
20	25.7
21	27.6
22	29.6
23	32.0
24	34.4
25	36.9

NOTE: The above chart represents average values and should be used only as a starting point. The granular chemical flows through the given meter opening at a nearly uniform rate regardless of roller speed. Your actual rate will vary depending upon the insecticide you are using, your planting speed and your plant population. Planting speed/ground speed has the greatest effect on application rate.

Your actual rate must be checked in the field with the actual insecticide that you are using and at the speed and population at which you will be planting. See "Checking Granular Chemical Application Rate" page for additional information.



WARNING: Agricultural chemicals can be dangerous if not selected and handled with care. Always read and follow directions supplied by the chemical manufacturer.

SEED METER OPERATION/MAINTENANCE

DRY HERBICIDE APPLICATION RATES

APPROXIMATE POUNDS/ACRE AT 5 MPH FOR 30" ROW WIDTH

CLAY GRANULES

Meter Setting	30" Rows
10	4.7
11	5.2
12	5.8
13	6.5
14	7.3
15	8.2
16	9.0
17	9.9
18	10.7
19	11.6
20	12.6
21	13.6
22	14.6
23	15.7
24	17.0
25	18.1
26	19.4
27	20.9
28	22.6
29	24.3
30	26.7

NOTE: The above chart represents average values and should be used only as a starting point. The granular chemical flows through the given meter opening at a nearly uniform rate regardless of roller speed. Your actual rate will vary depending upon the herbicide you are using, your planting speed and your plant population. Planting speed/ground speed has the greatest effect on application rate.

Your actual rate must be checked in the field with the actual insecticide that you are using and at the speed and population at which you will be planting. See "Checking Granular Chemical Application Rate" page for additional information.



WARNING: Agricultural chemicals can be dangerous if not selected and handled with care. Always read and follow directions supplied by the chemical manufacturer.

SEED METER OPERATION/MAINTENANCE

**See “Liquid or Dry Fertilizer Rate Charts”
in Machine Operation section.**

SEED METER OPERATION/MAINTENANCE

SEED METER SINGULATOR BRUSH AND VACUUM LEVEL ADJUSTMENTS

SEED DISC SELECTION

CROP	CELLS	SEED SIZE RANGE	COLOR-CODE
Corn	39	35 To 70 Lbs./80,000 Kernel Count Unit	Light Blue
Low-Rate Corn	24	35 To 70 Lbs./80,000 Kernel Count Unit	Light Green
Popcorn	39	2210 To 4200 Seeds/Lb.	Light Blue
Low-Rate Popcorn	24	2210 To 4200 Seeds/Lb.	Light Green
Soybean	60	2200 To 4000 Seeds/Lb.	Black
High-Rate Soybean	120	2200 To 4000 Seeds/Lb.	Dark Blue
Milo/Grain Sorghum	60	10,000 To 20,000 Seeds/Lb.	Yellow
Hill-Drop Cotton, Acid-Delinted (3 Seeds Per Cell)	20	3800 To 5200 Seeds/Lb.	Brown
Cotton, Acid-Delinted	54	3800 To 5200 Seeds/Lb.	Dark Green
Dry Edible Bean (Small)	54	1200 To 2500 Seeds/Lb.	Dark Green
Dry Edible Bean (Large)	54	800 To 1200 Seeds/Lb.	Tan
Small Cotton/Sunflower	54	4200 To 5200 Seeds/Lb.	White

EDGEVAC® INITIAL SETTINGS

CROP	SIZE	SINGULATOR SEED DISC	VACUUM BRUSH SETTING	SETTING (H ₂ O)	SEE NOTES
Corn	35-45 Lbs./80K	Corn/Popcorn	7	20	4, 5
	45-60 Lbs./80K	Corn/Popcorn	6	20	4, 5
	60-70 Lbs./80K	Corn/Popcorn	5	20	4, 5
Popcorn	2210-4200 Seeds/Lb.	Corn/Popcorn	9	18	1, 4, 5
Soybeans	2200-4000 Seeds/Lb.	Soybean	5	10	1
Milo/Grain Sorghum	10,000-20,000 Seeds/Lb.	Milo/Grain Sorghum	7	18	1, 2
Hill-Drop Cotton	3800-5200 Seeds/Lb.	Hill-Drop Cotton	8	23	3
Cotton	3800-5200 Seeds/Lb.	Cotton	8	20	3
Edible Beans	800-1200 Seeds/Lb.	Large Edible Bean	5	18	5
	1200-2500 Seeds/Lb.	Small Edible Bean	6	18	3, 5
Small Cotton/Sunflower	4200-5200 Seeds/Lb.	Small Cotton/Sunflower	5	20	3

NOTES:

- Requires use of seed meter baffle. Refer to page 7-3 for additional information.
- Requires use of cleanout brush. Refer to page 7-3 for additional information.
- Requires use of cleanout brush w/ball-type ejector. Refer to page 7-3 for additional information.
- For flat seeds, higher vacuum level may be required.
- Larger seeds may require a lower numbered singulator brush setting from the initial setting. Smaller seeds may require a higher numbered setting.

Refer to the planting rate charts in this manual for seed drive transmission sprocket combinations.

IMPORTANT: See “General Planting Rate Information” and “Checking Seed Population” pages for additional information. Always check seed population in the field to ensure planting rates are correct.

NOTE: Singulator brush settings are marked from 1 thru 11. The lower the singulator brush setting, the less aggressive. The higher singulator brush settings are the most aggressive. Refer to illustrations on page 7-24.

NOTE: Optimum meter performance will be attained with consistent seed size and shape. A mixture of seed sizes and shapes will affect meter performance.

NOTE: Use 1 tablespoon powdered graphite with each hopper fill of seed. Seed treatment, foreign material, dirt or seed chaff may cause gradual reduction of seed disc fill (population). See “Seed Meter”.

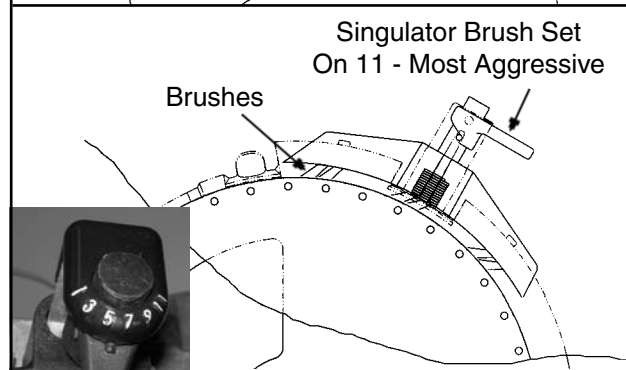
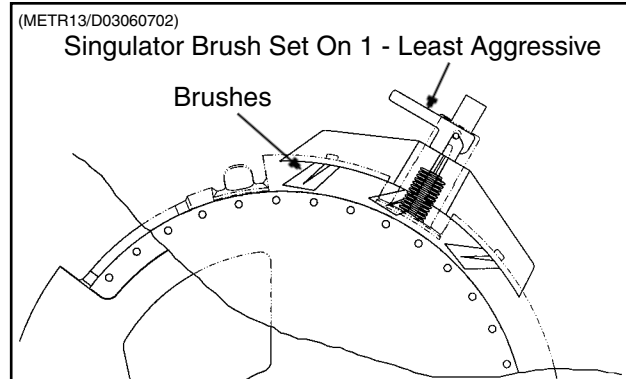
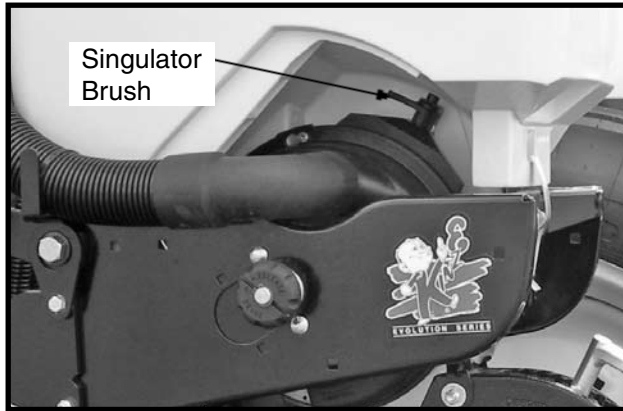
NOTE: Excessive seed treatment, humidity and light-weight seed can affect meter performance. Use ½ cup of talc with each hopper fill of seed and mix thoroughly so that all seeds are coated, adjust rates as needed. Use of talc will aid the seed flow into the meter, singulation and seed drop from the disc.

SEED METER OPERATION/MAINTENANCE

STEP 1 Select seed disc (and seed meter baffle, cleanout brush and/or cleanout brush w/ball-type ejector if applicable) to match crop and population.

STEP 2 Adjust the singulator brush to initial setting. Note that seed size, seed shape, seed treatments, travel speed and planting rate will all affect meter performance.

D06260660



STEP 3 With vacuum fan running, lower planter to planting position and drive forward a short distance to load seed into the seed disc cells.

Adjust vacuum level to the initial setting according to the tables on preceding page. Note that seed size, seed shape, seed treatments, travel speed and planting rate will all affect meter performance.

NOTE: Vacuum reading will be much lower when seed disc cells are empty. Prior to setting vacuum level, load all seed cells.

D10240583



See "Digital Vacuum Gauge Operation" in Machine Operation section

NOTE: Operate vacuum fan 3-5 minutes to bring oil up to normal operating temperature prior to making the final vacuum level adjustment.

STEP 4 Perform optional seed disc fill check.

D101906132



D101906130



With vacuum hose connected and vacuum fan operating, remove vacuum cover and seed disc as an assembly. Inspect seed discs for proper seed fill.

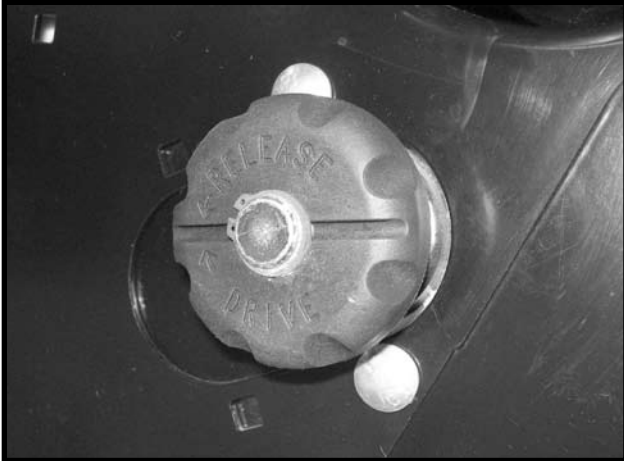
See "Seed Metering System Troubleshooting" at the end of this section.

SEED METER OPERATION/MAINTENANCE

SEED METER DRIVE RELEASE

The seed meter drive is equipped with a clutch release mechanism that allows the drive to be disengaged from the seed metering unit for removal of the seed meter and mount or hopper. Disconnecting the drive allows the operator to check granular chemical application rates without dropping seed. It also allows the drive to one or more of the rows to be disconnected when finishing fields.

D011006101

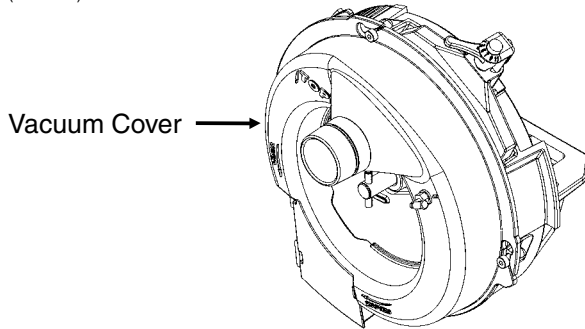


To disengage the drive, turn the knob $\frac{1}{4}$ turn counterclockwise. To engage the drive, turn the knob $\frac{1}{4}$ turn clockwise.

SEED METER OPERATION/MAINTENANCE

SEED METER MAINTENANCE

(METR71)



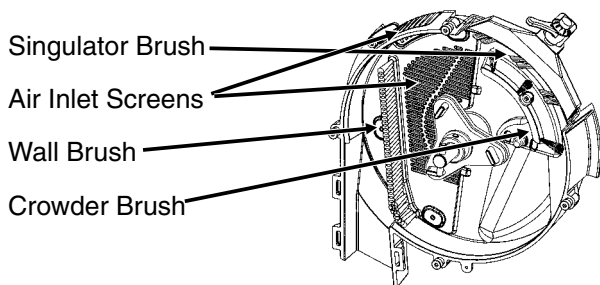
Clean, high quality seed should be used for maximum meter accuracy. Damaged or cracked seed, hulls or foreign material may become lodged in the seed disc orifices and greatly reduce meter accuracy.

It is suggested that the seed disc be inspected and cleaned daily, checking for any buildup of foreign material or any blocked orifices. Clean the seed disc by washing it with soap and water as needed. Dry thoroughly.

Inspect singulator brush for wear and replace if necessary following every 200 acres per row of operation.

The seed disc and/or vacuum cover should be replaced if abnormally high vacuum is required for consistent operation or if consistent operation can not be achieved. If adjustment of the singulator brush does not affect performance of the meter or if the brushes appear frayed, the singulator brush may need to be replaced. If the seed disc orifices are plugged frequently with seed remnants, the cleanout brush or cleanout brush with ball-type ejector (if applicable) may need to be replaced. High quality seed should be used to attain best performance.

(METR70)



Prior to each planting season, inspect seed discs, singulator brush, crowder brush, wall brush and air inlet screens and clean or replace as needed.

See "Preparation For Storage" for additional EdgeVac® Seed Metering System maintenance.

IMPORTANT: Replace hopper lids after hoppers are filled to prevent accumulation of dust or dirt in the seed meter which will cause premature wear.

NOTE: Remove seed discs from meters for annual storage and store the seed discs vertically on a dowel or pipe.

VACUUM MANIFOLD MAINTENANCE

In the course of normal operation, dust will accumulate in manifolds and hoses. Manifolds should be cleaned annually. More frequent cleaning may be necessitated by abnormally dusty planting conditions.

Remove vacuum hose from each seed meter. Operate the vacuum fan at full hydraulic flow from the tractor for two minutes to clear manifolds, hoses and fittings of dust and debris.

SEED METER OPERATION/MAINTENANCE

SEED METERING SYSTEM TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Low seed count.	Meter RPM too high.	Reduce planting rate or planting speed.
	Singulator brush setting too aggressive.	Adjust singulator brush.
	Vacuum level too low.	Increase fan speed.
	Seed sensor not picking up all seeds dropped.	Clean seed tube. Move meter to different row.
	Seeds sticking to seed disc.	Use graphite or talc to aid release.
	Seed treatment buildup in seed disc recesses.	Reduce amount of treatment used and or mix thoroughly. Add talc.
	Seed size too large for disc used.	Use appropriate disc for seed size.
	Wrong transmission setting.	Change transmission to desired rate.
	Wrong seed disc.	Use appropriate disc for seed type and size.
	Drive wheel slippage.	Compensate by adjusting transmission sprockets.
	Low tire pressure.	Adjust tire pressure to correct level.
	Failed/worn drive components.	Inspect and replace parts as required.
	Plugged orifices in seed disc.	Inspect and clean disc. Check cleanout brush. (If Applicable)
	Loss of vacuum at meter.	Check for foreign material between vacuum cover and disc. Inspect parts for wear/damage. Clean or replace as required.
	Seed bridging in hopper.	Add graphite to improve seed flow.
	Faulty vacuum gauge reading.	Repair/replace gauge.
	Dirt in vacuum manifold.	Check vacuum manifold for dirt and clean.
	Seed baffle (If Applicable) not allowing seed flow due to bridging of seed.	Thoroughly mix talc to coat all seeds. Remove seed baffle. See "Seed Meter" in Seed Meter Operation/Maintenance section.
	60 cell soybean disc not filling properly due to excessive RPM.	Replace with 120 cell soybean disc.
	Seed disc worn.	Replace.
Vacuum cover worn.	Replace.	
Not planting seed.	Seed hoppers empty.	Fill seed hopper.
	Seed tube plugged/damaged.	Clean or replace tube.
	Meter drive damaged.	Repair/replace drive components.
	Low/no vacuum.	Inspect vacuum system and repair as necessary.
	Singulator brush setting too aggressive.	Adjust singulator brush.
	Faulty vacuum gauge.	Repair/replace vacuum gauge.
	Seed bridging in hopper.	Add graphite to improve seed flow.
	Loss of vacuum at meter.	Check for foreign material between vacuum cover and disc. Inspect parts for wear/damage. Clean and/or replace as required.
	Wrong seed disc.	Use appropriate disc for seed type and size.
	Meter drive clutch not engaged.	Engage drive clutch.
	Fan not running.	Start fan.
	Dirt in vacuum manifold.	Check vacuum manifold for dirt and clean.

(Continued On Following Page)

SEED METER OPERATION/MAINTENANCE

SEED METERING SYSTEM TROUBLESHOOTING (Continued)

PROBLEM	POSSIBLE CAUSE	SOLUTION
Not planting seed. (Continued)	Seed baffle (If Applicable) not allowing seed flow due to bridging of seed.	Thoroughly mix talc to coat all seeds. Remove seed baffle. See "Seed Meter" in Seed Meter Operation/Maintenance section.
	60 cell soybean disc not filling properly due to excessive RPM.	Replace with 120 cell soybean disc.
High seed count.	Wrong transmission setting.	Change transmission to desired rate.
	High vacuum.	Adjust vacuum level to appropriate level.
	Wrong seed disc.	Replace seed disc.
	Singulator brush setting not aggressive enough.	Adjust singulator brush.
	Worn singulator brush.	Inspect brush and replace as required.
	Seed leaking past wall brush.	Inspect wall brush condition and installation. Replace as necessary.
	Faulty vacuum gauge.	Check gauge line for dirt/obstruction. Repair/replace vacuum gauge.
Poor seed spacing.	Obstruction in seed tube.	Clean seed tube.
	Dirty/damaged seed disc.	Inspect seed disc for damage, foreign material in orifices or seed treatment buildup in recesses. Clean or replace as required.
	Wrong vacuum setting.	Adjust vacuum to appropriate level.
	Excess foreign material in seed.	Inspect and clean meter and seed discs. Use clean, undamaged seed.
	Incorrect singulator brush setting.	Adjust singulator brush to appropriate setting.
	Inconsistent driveline.	Inspect drive components for rust, misalignment, worn or damaged parts. Replace/repair as required.
	Toolbar not level or wrong height.	Adjust hitch to level toolbar and row units.
	Planting too fast for conditions.	Reduce speed.
	Rough field conditions.	Reduce speed.
Irregular seed population.	Driving too fast.	Reduce speed.
	Drive wheels slipping.	Reduce speed. Decrease row unit down pressure spring settings.
Unable to achieve desired vacuum level.	Tractor hydraulic flow set too low.	Increase flow to fan motor.
	Incorrect hydraulic connections.	Check all hydraulic connections and hose routings.
	Damaged fan components.	Inspect motor and impeller for wear/damage and repair/replace as necessary.
	Vacuum hose pinched/kinked/ blocked.	Inspect air lines for any damage or obstruction. Clean air lines and manifold by removing end cap from manifold and running fan at high speed.
	Vacuum hose loose/disconnected.	Inspect and reattach all air hoses.
	Tractor not producing required hydraulic flow/pressure.	Have tractor serviced by qualified technician.
	Dirt in vacuum gauge line.	Check gauge line for dirt/obstruction and clean.