

# OPERATION

**IMPORTANT:** Use powdered graphite or talc with each hopper fill of seed. Additional graphite or talc may be required to retard buildup of seed treatments on meter components. Frequency of monitor seed tube cleaning may be affected due to use of additional graphite or talc.

One tablespoon of powdered graphite (GR0146) per hopper fill of seed should be added to the seed each time the hopper is filled. This prolongs the life of the seed meter components, reduces buildup of seed treatment on components in the meter and improves seed spacing.

Talc seed lubricant (GR1179) may be used in lieu of graphite to reduce seed treatment buildup on seed disc and meter components and will improve meter performance. Coat seed disc and brushes with talc before installing meter. Fill hopper 1/2 full of seed, add 1/4 cup of talc and mix in thoroughly. Finish filling hopper, add another 1/4 cup of talc and mix thoroughly. 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 prevent seed treatment buildup on seed discs and/or brushes.

## RATE SETTINGS

The plateless finger pickup corn meter seed population rate chart will be used to select the transmission setting for the desired seed population for soybeans, milo/grain sorghum or acid-delimited cotton with the brush-type seed meter.

To determine planter transmission setting when using 30, 36, 48 or 60 cell seed discs, follow the steps listed below:

- Determine desired population per acre. Divide that number by 2.5 for 30 cell small and large milo/grain sorghum or acid-delimited cotton. Divide by 3 for 36 cell acid-delimited large cotton. Divide by 4 for 48 cell specially soybeans or high rate cotton. Divide by 5 for 60 cell soybeans or high rate milo/grain sorghum.

- From the plateless finger pickup corn meter seed population rate chart supplied with your planter, select the transmission ratio closest to the number determined in Step B.

- Following the instructions for "Checking Seed Population" in the manual supplied with your planter and using the above determined sprocket ratio settings, make a field check.

- Determine desired hill spacing.

- From the plateless finger pickup corn meter seed population rate chart supplied with your planter, select the transmission ratio closest to seed (hill) spacing in inches on the chart. If longer distances are required, rate reduction sprockets can be installed in the drive line to increase hill spacing.

- To check population per acre, determine average seeds per hill and hills per acre by doing a field check. Measure 1/100 of an acre (171000 acre = Length of row 17' 5/30" row width, 14' 6" 36" row width, 13' 10" 38" row width and 13' 1" 40" row width). Multiply average seeds per hill by hills per acre. To decrease population increase spacing. To increase population decrease spacing.

EXAMPLE: 4 seeds per hill X (18 hills X 1000) = 72,000

## KINZE® BRUSH-TYPE SEED METER MAXIMUM SPEED (MPH) CHART

| INCHES OF SEED SPACING |     | NUMBER OF CELLS IN DISC |      |      |      |
|------------------------|-----|-------------------------|------|------|------|
| 12"                    | 30  | 36                      | 48   | 80   |      |
| 1.00                   | 1.0 | 2.5                     | 3.0  | 5.7  | 7.0  |
| 1.25                   | 1.3 | 3.2                     | 3.8  | 7.1  | 8.7  |
| 1.50                   | 1.5 | 3.8                     | 4.6  | 8.5  | 10.5 |
| 1.75                   | 1.8 | 4.3                     | 5.4  | 8.8  |      |
| 2.00                   | 2.0 | 5.1                     | 6.1  | 11.4 |      |
| 2.50                   | 2.5 | 6.4                     | 7.8  |      |      |
| 3.00                   | 3.0 | 7.7                     | 9.2  |      |      |
| 4.00                   | 4.0 | 10.0                    | 12.2 |      |      |
| 5.00                   | 5.0 | 12.8                    |      |      |      |
| 6.00                   | 6.0 |                         |      |      |      |
| 7.00                   | 7.0 |                         |      |      |      |
| 8.00                   | 8.0 |                         |      |      |      |

NOTE: 12 cell disc is used for hill-drop cotton. Seed spacing is hill spacing for hill-drop cotton disc.

Determining seed spacing in tall column, then find maximum MPH under seed disc being used.

Revised 8/92

IS249

$$8 \times 17.4 \times 1000 \div 5 = 27,840$$

Seeds per foot