



Great Plains
Manufacturing, Inc.

Seed Rate Charts for 3 Point Precision Bean Machine

Implement Models: 2015P and 2515P

The following pages are to assist in the proper setting of seeding rates for the 3 point precision bean machine.

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Singulator Plus Meters (all seeds)

Ezee Glide Plus Talc-Graphite Mix
 821-069C bucket, 5 gallon (19 liter)

Ezee Glide Plus Lubricant

To maximize performance of Great Plains metering systems, it is imperative to use only “Ezee Glide Plus” lubricant. “Ezee Glide Plus” Talc-Graphite lubricant is mandatory for all seeds, especially treated or inoculated seed. **Thorough mixing of seed and added lubricant is required.**

Recommended usage:

For clean seeds other than milo and cotton sprinkle one cup of Ezee Glide Plus Talc per 4 bushels or units (170 ml per 100 liters) of seed.

For milo and cotton double the application to one cup (or more) per 2 bu or units (335 ml per 100 liters) of seed.

Adjust this rate as necessary so all seeds become coated while avoiding an accumulation of lubricant in the bottom of the hopper.

For seed with excessive treatment, or for humid planting environments, increase the rate as needed for smooth meter operation.



Irritation and Chronic Exposure Hazard:

Wear gloves. DO NOT use hands or any part of your body to mix seed lubricant. Wear a respirator when transferring and mixing. Avoid breathing lubricant dust. Not an acute hazard. May cause mechanical eye or skin irritation in high concentrations. As with all mineral spills, minimize dusting during clean-up. Prolonged inhalation may cause lung injury. Product can become slippery when wet.

Finger Pickup Meters

EZ-Slide Graphite Powder
 821-042C bottle, 1 pound (450 grams)
 821-060C jug, 5 pound (2.3 kg)

For Finger Pick Up Meters Only

Use only approved Graphite Powder available from Great Plains Mfg. Inc. or Precision Planting to ensure proper lubrication of finger pickup corn seed meters.

Recommended usage:

For finger pickup meters, add one tablespoon (15 ml) of graphite for each unit of seed corn (80,000 kernels).

In high humidity conditions, or seeds with heavy seed treatments, increase the application to two tbsp (30ml).

If delivery of seed from the hopper to the finger meter is an issue, add “Ezee Glide Plus” talc and graphite blend at a rate of one cup (237ml) per 4 units of seed. Adjust until issue is resolved.



Irritation and Chronic Exposure Hazard:

Wear gloves. DO NOT use hands or any part of your body to mix seed lubricant. Wear a respirator when transferring and mixing. Avoid breathing lubricant dust. Not an acute hazard. May cause mechanical eye or skin irritation in high concentrations. As with all mineral spills, minimize dusting during clean-up. Prolonged inhalation may cause lung injury.

Sprockets

Drive Speed Range Sprockets

Select the correct drive speed range sprockets for your seed by referring to the Seed Rate Charts beginning on page 6.

Refer to Figure 1

Loosen idler (1) and remove chain (2). Remove retaining pins (3) from shafts and install speed range sprockets as necessary.

NOTE: Make sure the correct sprockets have been installed in the DRIVER and DRIVEN locations as shown.

Reroute chain over sprockets and idlers as shown. Move idler into chain so chain has 1/4-inch slack in its longest span. Tighten idler and install retaining pins.

Set the same drive range sprocket combination on both gauge wheels.

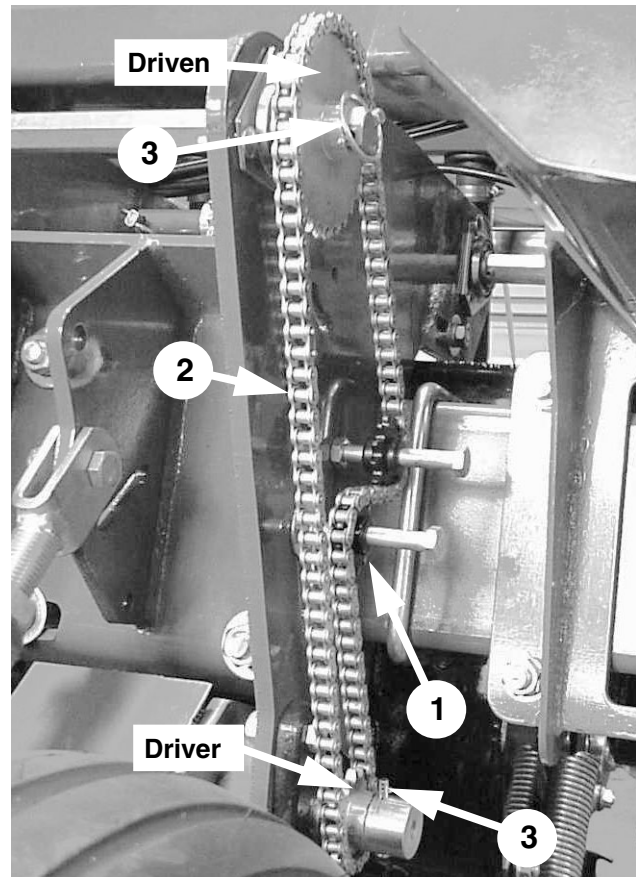


Figure 1
Drive Speed Range Sprockets Adjustment

Transmission Sprockets

To change the seeding rate, change the transmission sprocket combination. Refer to the Seed Rate Charts beginning on page 6.

Refer to Figure 2

Loosen idler plate (1) and remove drive chain (2). Remove lynch pins (3) from shafts and rearrange drive and driven sprockets as necessary.

Reroute drive chain over sprockets and idlers as shown. Move idlers into chain so chain has 1/4-inch slack in its longest span. Tighten idlers and install lynch pins.

Set the same transmission sprocket combination on both gauge wheels.

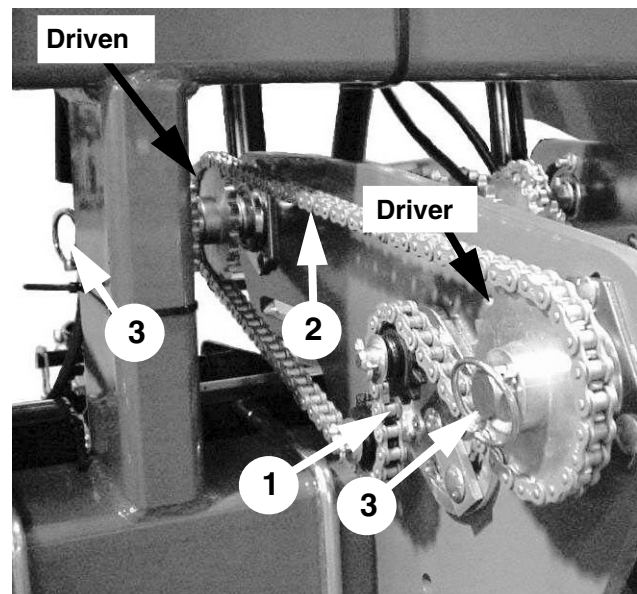


Figure 2
Transmission Sprockets Adjustment

Checking Seeding Rate

Checking Singulated Seeding Rate

The seed charts are based on cleaned and sized seed. Extreme seed size variations, foreign material and tire pressure will affect the seeding rate. Check the seed population rate as described below.

1. Adjust the planting depth to a shallow setting.
2. Plant at the desired planting speed for a short distance.
3. Using Table 1, determine how many rows need to be counted.
4. Measure a distance of 17' 5" in the planted area.
5. Count the number of seeds, in the appropriate number of rows, over the distance measured.
6. Multiply the number of seeds counted by 1,000. This is the plant population in seeds per acre.

Example 1:

If you have a 15-inch row spacing bean machine, according to the table, two rows must be counted. Measure 17' 5" and count the number of seeds in two rows. If the number is, for example, 180, multiply 180 by 1,000.

$$180 \times 1,000 = 180,000 \text{ seeds per acre.}$$

Example 2:

If you have a 15-inch row spacing bean machine, but desire to plant soybeans on 30-inch row spacing, according to the table, one row must be counted. Measure 17' 5" and count the number of seeds in one row. If the number is, for example, 180, multiply 180 by 1,000.

$$180 \times 1,000 = 180,000 \text{ seeds per acre.}$$

7. If the planting population is significantly different than desired, make the following checks:
 - Double check the transmission and range sprocket combinations. Refer to the seed population chart for the seed being planted.
 - Check the air pressure in the gauge wheel tires. Refer to "Tire Inflation Chart" in the operator's manual.
 - Refer to the troubleshooting guide in the operator's manual.

Planted row spacing (inches)	Number of rows to count	Length of row to measure
15	2	17' 5"
30	1	17' 5"

Table 1

2015P Corn 28 Cell Wheel (Singulating)

Wheel P/N's

403-083D (round corn 1400-1900 krl/lb)

403-086D (flat corn 1500-1675 krl/lb)

403-096D (round corn 1700-2200 krl/lb)

403-088D (flat corn 1625-1800 krl/lb)

Seed Rate Charts

1400-1900 krl/lb. Talc required			15" Row Spacing	
			Range Sprockets Driver = 15 Driven = 30	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven			
17	28	13,850	30.2	8
17	27	14,363	29.1	8
17	26	14,915	28.0	8
19	28	15,479	27.0	8
17	25	15,512	27.0	8
19	27	16,053	26.1	8
17	24	16,158	25.9	8
19	26	16,670	25.1	8
17	23	16,861	24.8	8
19	25	17,337	24.1	8
19	24	18,059	23.2	8
23	28	18,738	22.3	8
19	23	18,844	22.2	8
23	27	19,432	21.5	8
24	28	19,553	21.4	8
23	26	20,179	20.7	8
24	27	20,277	20.6	8
25	28	20,367	20.5	8
17	19	20,410	20.5	8
23	25	20,987	19.9	8
24	26	21,057	19.9	8
25	27	21,122	19.8	8
26	28	21,182	19.7	8
23	24	21,861	19.1	8
24	25	21,899	19.1	8
25	26	21,934	19.1	8
26	27	21,967	19.0	8
27	28	21,997	19.0	8
23	23	22,812	18.3	8
28	27	23,656	17.7	8
27	26	23,689	17.7	8
26	25	23,724	17.6	8
25	24	23,762	17.6	8
24	23	23,803	17.6	8
28	26	24,566	17.0	8
27	25	24,636	17.0	8
26	24	24,713	16.9	8
25	23	24,795	16.9	8
19	17	25,495	16.4	8
28	25	25,549	16.4	8
27	24	25,663	16.3	8
26	23	25,787	16.2	8
28	24	26,613	15.7	8
27	23	26,779	15.6	8
23	19	27,614	15.1	8
28	23	27,771	15.1	7
24	19	28,815	14.5	7
25	19	30,015	13.9	7
23	17	30,863	13.5	7
26	19	31,216	13.4	7
24	17	32,205	13.0	6
27	19	32,416	12.9	6
25	17	33,546	12.5	6
28	19	33,617	12.4	6
26	17	34,888	12.0	6
27	17	36,230	11.5	6
28	17	37,572	11.1	5

2015P Corn 56 Cell Wheel (Singulating)

Wheel P/N 403-084D (round corn 1400-1900 krl/lb.)

1400-1900 kernels/pound Talc required			30" Row Spacing	
			Range Sprockets Driver = 15 Driven = 30	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven			
17	28	13,850	15.1	8
17	27	14,363	14.6	8
17	26	14,915	14.0	8
19	28	15,479	13.5	8
17	25	15,512	13.5	8
19	27	16,053	13.0	8
17	24	16,158	12.9	8
19	26	16,670	12.5	8
17	23	16,861	12.4	8
19	25	17,337	12.1	8
19	24	18,059	11.6	8
23	28	18,738	11.2	8
19	23	18,844	11.1	8
23	27	19,432	10.8	8
24	28	19,553	10.7	8
23	26	20,179	10.4	8
24	27	20,277	10.3	8
25	28	20,367	10.3	8
17	19	20,410	10.2	8
23	25	20,987	10.0	8
24	26	21,057	9.9	8
25	27	21,122	9.9	8
26	28	21,182	9.9	8
23	24	21,861	9.6	8
24	25	21,899	9.5	8
25	26	21,934	9.5	8
26	27	21,967	9.5	8
27	28	21,997	9.5	8
23	23	22,812	9.2	8
28	27	23,656	8.8	8
27	26	23,689	8.8	8
26	25	23,724	8.8	8
25	24	23,762	8.8	8
24	23	23,803	8.8	8
28	26	24,566	8.5	8
27	25	24,636	8.5	8
26	24	24,713	8.5	8
25	23	24,795	8.4	8
19	17	25,495	8.2	8
28	25	25,549	8.2	8
27	24	25,663	8.1	8
26	23	25,787	8.1	8
28	24	26,613	7.9	8
27	23	26,779	7.8	8
23	19	27,614	7.6	8
28	23	27,771	7.5	8
24	19	28,815	7.3	8
25	19	30,015	7.0	7
23	17	30,863	6.8	7
26	19	31,216	6.7	7
24	17	32,205	6.5	7
27	19	32,416	6.5	7
25	17	33,546	6.2	7
28	19	33,617	6.2	7
26	17	34,888	6.0	6
27	17	36,230	5.8	6
28	17	37,572	5.6	6

2015P Corn 42 Cell Wheel (Singulating)

Wheel P/N 403-097D (round corn 1400-1700 krl/lb.)

1400-1700 krl/lb. Talc required			30" Row Spacing	
			Range Sprockets Driver = 20 Driven = 30	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven			
17	28	13,850	15.1	8
17	27	14,363	14.6	8
17	26	14,915	14.0	8
19	28	15,479	13.5	8
17	25	15,512	13.5	8
19	27	16,053	13.0	8
17	24	16,158	12.9	8
19	26	16,670	12.5	8
17	23	16,861	12.4	8
19	25	17,337	12.1	8
19	24	18,059	11.6	8
23	28	18,738	11.2	8
19	23	18,844	11.1	8
23	27	19,432	10.8	8
24	28	19,553	10.7	8
23	26	20,179	10.4	8
24	27	20,277	10.3	8
25	28	20,367	10.3	8
17	19	20,410	10.2	8
23	25	20,987	10.0	8
24	26	21,057	9.9	8
25	27	21,122	9.9	8
26	28	21,182	9.9	8
23	24	21,861	9.6	8
24	25	21,899	9.5	8
25	26	21,934	9.5	8
26	27	21,967	9.5	8
27	28	21,997	9.5	8
23	23	22,812	9.2	7
28	27	23,656	8.8	7
27	26	23,689	8.8	7
26	25	23,724	8.8	7
25	24	23,762	8.8	7
24	23	23,803	8.8	7
28	26	24,566	8.5	7
27	25	24,636	8.5	7
26	24	24,713	8.5	7
25	23	24,795	8.4	7
19	17	25,495	8.2	7
28	25	25,549	8.2	7
27	24	25,663	8.1	7
26	23	25,787	8.1	6
28	24	26,613	7.9	6
27	23	26,779	7.8	6
23	19	27,614	7.6	6
28	23	27,771	7.5	6
24	19	28,815	7.3	6
25	19	30,015	7.0	5
23	17	30,863	6.8	5
26	19	31,216	6.7	5
24	17	32,205	6.5	5
27	19	32,416	6.5	5
25	17	33,546	6.2	5
28	19	33,617	6.2	5
26	17	34,888	6.0	5
27	17	36,230	5.8	4
28	17	37,572	5.6	4

2515P Corn 28 Cell Wheel (Singulating)

Wheel P/N's

403-083D (round corn 1400-1900 krl/lb)

403-086D (flat corn 1500-1675 krl/lb)

403-096D (round corn 1700-2200 krl/lb)

403-088D (flat corn 1625-1800 krl/lb)

Rd corn 1400-2200 krl/lb. Flat corn 1500-1800 krl/lb. Talc Required			15" Row Spacing	
			Range Sprockets Driver =15 Driven = 30	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven			
17	28	13,868	30.2	8
17	27	14,381	29.1	8
17	26	14,934	28.0	8
19	28	15,499	27.0	8
17	25	15,532	26.9	8
19	27	16,073	26.0	8
17	24	16,179	25.8	8
19	26	16,691	25.1	8
17	23	16,882	24.8	8
19	25	17,359	24.1	8
19	24	18,082	23.1	8
23	28	18,762	22.3	8
19	23	18,868	22.2	8
23	27	19,457	21.5	8
24	28	19,578	21.4	8
23	26	20,205	20.7	8
24	27	20,303	20.6	8
25	28	20,393	20.5	8
17	19	20,436	20.5	8
23	25	21,013	19.9	8
24	26	21,084	19.8	8
25	27	21,149	19.8	8
26	28	21,209	19.7	8
23	24	21,889	19.1	8
24	25	21,927	19.1	8
25	26	21,962	19.0	8
26	27	21,995	19.0	8
27	28	22,025	19.0	8
23	23	22,841	18.3	8
28	27	23,687	17.7	8
27	26	23,719	17.6	8
26	25	23,754	17.6	8
25	24	23,792	17.6	8
24	23	23,834	17.5	8
28	26	24,598	17.0	8
27	25	24,668	17.0	8
26	24	24,744	16.9	8
25	23	24,827	16.8	8
19	17	25,528	16.4	8
28	25	25,582	16.3	8
27	24	25,696	16.3	8
26	23	25,820	16.2	8
28	24	26,647	15.7	8
27	23	26,813	15.6	8
23	19	27,649	15.1	8
28	23	27,806	15.0	7
24	19	28,851	14.5	7
25	19	30,054	13.9	7
23	17	30,902	13.5	7
26	19	31,256	13.4	7
24	17	32,246	13.0	6
27	19	32,458	12.9	6
25	17	33,589	12.4	6
28	19	33,660	12.4	6
26	17	34,933	12.0	6
27	17	36,276	11.5	6
28	17	37,620	11.1	5

2515P Corn 56 Cell Wheel (Singulating)

Wheel P/N 403-084D (round corn 1400-1900 krl/lb)

Rd corn 1400-1900 krl/lb. Talc Required			30" Row Spacing	
			Range Sprockets Driver = 15 Driven = 30	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven			
17	28	13,868	15.1	8
17	27	14,381	14.5	8
17	26	14,934	14.0	8
19	28	15,499	13.5	8
17	25	15,532	13.5	8
19	27	16,073	13.0	8
17	24	16,179	12.9	8
19	26	16,691	12.5	8
17	23	16,882	12.4	8
19	25	17,359	12.0	8
19	24	18,082	11.6	8
23	28	18,762	11.1	8
19	23	18,868	11.1	8
23	27	19,457	10.7	8
24	28	19,578	10.7	8
23	26	20,205	10.3	8
24	27	20,303	10.3	8
25	28	20,393	10.3	8
17	19	20,436	10.2	8
23	25	21,013	10.0	8
24	26	21,084	9.9	8
25	27	21,149	9.9	8
26	28	21,209	9.9	8
23	24	21,889	9.6	8
24	25	21,927	9.5	8
25	26	21,962	9.5	8
26	27	21,995	9.5	8
27	28	22,025	9.5	8
23	23	22,841	9.2	8
28	27	23,687	8.8	8
27	26	23,719	8.8	8
26	25	23,754	8.8	8
25	24	23,792	8.8	8
24	23	23,834	8.8	8
28	26	24,598	8.5	8
27	25	24,668	8.5	8
26	24	24,744	8.5	8
25	23	24,827	8.4	8
19	17	25,528	8.2	8
28	25	25,582	8.2	8
27	24	25,696	8.1	8
26	23	25,820	8.1	8
28	24	26,647	7.8	8
27	23	26,813	7.8	8
23	19	27,649	7.6	8
28	23	27,806	7.5	7
24	19	28,851	7.2	7
25	19	30,054	7.0	7
23	17	30,902	6.8	7
26	19	31,256	6.7	7
24	17	32,246	6.5	6
27	19	32,458	6.4	6
25	17	33,589	6.2	6
28	19	33,660	6.2	6
26	17	34,933	6.0	6
27	17	36,276	5.8	6
28	17	37,620	5.6	5

2515P Corn 42 Cell Wheel (Singulating)

Wheel P/N's

403-097D (1400-1700 seeds/lb)

403-098D (1700-2000 seeds/lb)

Rd corn 1400-2000 krl/lb Talc Required			30" Row Spacing	
			Range Sprockets Driver = 20 Driven = 30	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven			
17	28	13,868	15.1	8
17	27	14,381	14.5	8
17	26	14,934	14.0	8
19	28	15,499	13.5	8
17	25	15,532	13.5	8
19	27	16,073	13.0	8
17	24	16,179	12.9	8
19	26	16,691	12.5	8
17	23	16,882	12.4	8
19	25	17,359	12.0	8
19	24	18,082	11.6	8
23	28	18,762	11.1	8
19	23	18,868	11.1	8
23	27	19,457	10.7	8
24	28	19,578	10.7	8
23	26	20,205	10.3	8
24	27	20,303	10.3	8
25	28	20,393	10.3	8
17	19	20,436	10.2	8
23	25	21,013	10.0	7
24	26	21,084	9.9	7
25	27	21,149	9.9	7
26	28	21,209	9.9	7
23	24	21,889	9.6	7
24	25	21,927	9.5	7
25	26	21,962	9.5	7
26	27	21,995	9.5	7
27	28	22,025	9.5	7
23	23	22,841	9.2	7
28	27	23,687	8.8	7
27	26	23,719	8.8	7
26	25	23,754	8.8	7
25	24	23,792	8.8	6
24	23	23,834	8.8	6
28	26	24,598	8.5	6
27	25	24,668	8.5	6
26	24	24,744	8.5	6
25	23	24,827	8.4	6
19	17	25,528	8.2	6
28	25	25,582	8.2	6
27	24	25,696	8.1	6
26	23	25,820	8.1	6
28	24	26,647	7.8	6
27	23	26,813	7.8	6
23	19	27,649	7.6	6
28	23	27,806	7.5	5
24	19	28,851	7.2	5
25	19	30,054	7.0	5
23	17	30,902	6.8	5
26	19	31,256	6.7	5
24	17	32,246	6.5	5
27	19	32,458	6.4	5
25	17	33,589	6.2	4
28	19	33,660	6.2	4
26	17	34,933	6.0	4
27	17	36,276	5.8	4
28	17	37,620	5.6	4

2015P Row Milo Low Rate 102 Cell Wheel (Singulating)

Wheel P/N 403-080D (12000-18000 seeds/lb.)

12000-18000 seeds/lb. Talc & Graphite required			15" Row Spacing		30" Row Spacing	
			Range Sprockets Driver =15 Driven = 60		Range Sprockets Driver = 15 Driven = 30	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven					
17	28	25,227	16.6	8	8.3	8
17	27	26,161	16.0	8	8.0	8
17	26	27,167	15.4	8	7.7	8
19	28	28,194	14.8	8	7.4	8
17	25	28,254	14.8	8	7.4	8
19	27	29,239	14.3	8	7.2	8
17	24	29,431	14.2	8	7.1	8
19	26	30,363	13.8	8	6.9	8
17	23	30,711	13.6	8	6.8	8
19	25	31,578	13.2	8	6.6	8
19	24	32,893	12.7	8	6.4	8
23	28	34,130	12.3	8	6.1	8
19	23	34,324	12.2	8	6.1	8
23	27	35,394	11.8	8	5.9	8
24	28	35,614	11.7	8	5.9	8
23	26	36,755	11.4	8	5.7	8
24	27	36,933	11.3	8	5.7	8
25	28	37,098	11.3	8	5.6	8
17	19	37,176	11.2	8	5.6	8
23	25	38,226	10.9	8	5.5	8
24	26	38,354	10.9	8	5.5	8
25	27	38,472	10.9	8	5.4	8
26	28	38,582	10.8	8	5.4	8
23	24	39,818	10.5	8	5.3	8
24	25	39,888	10.5	8	5.2	8
25	26	39,952	10.5	8	5.2	8
26	27	40,011	10.5	8	5.2	8
27	28	40,066	10.4	8	5.2	8
23	23	41,550	10.1	8	5.0	8
28	27	43,089	9.7	8	4.9	8
25	26	43,148	9.7	8	4.8	8
26	25	43,212	9.7	8	4.8	8
25	24	43,281	9.7	8	4.8	8
24	23	43,356	9.6	8	4.8	8
28	26	44,746	9.3	8	4.7	8
27	25	44,874	9.3	8	4.7	8
26	24	45,012	9.3	8	4.6	8
25	23	45,163	9.3	8	4.6	8
19	17	46,438	9.0	8	4.5	8
28	25	46,536	9.0	8	4.5	8
27	24	46,743	8.9	8	4.5	8
26	23	46,969	8.9	8	4.5	8
28	24	48,475	8.6	8	4.3	8
27	26	48,776	8.6	8	4.3	8
23	19	50,297	8.3	8	4.2	8
28	23	50,582	8.3	8	4.1	7
24	19	52,484	8.0	8	4.0	7
25	19	54,671	7.6	8	3.8	7
23	17	56,214	7.4	8	3.7	7
26	19	56,857	7.4	8	3.7	7
24	17	58,658	7.1	8	3.6	6
27	19	59,044	7.1	8	3.5	6
25	17	61,102	6.8	8	3.4	6
28	19	61,231	6.8	8	3.4	6
26	17	63,547	6.6	8	3.3	6
27	17	65,991	6.3	8	3.2	6
28	17	68,435	6.1	8	3.1	5

2015P Row Milo High Rate 270 Wheel

Wheel P/N's 403-082D (12000-18000 seeds/lb)

12000-18000 seeds/pound Talc and Graphite Required			15" Row Spacing		30" Row Spacing	
			Range Sprockets Driver = 15 Driven = 60		Range Sprockets Driver = 15 Driven = 30	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven					
17	28	66,776	6.3	8	3.1	8
17	27	69,249	6.0	8	3.0	8
17	26	71,913	5.8	8	2.9	8
19	28	74,632	5.6	8	2.8	8
17	25	74,789	5.6	8	2.8	8
19	27	77,396	5.4	8	2.7	8
17	24	77,906	5.4	8	2.7	8
19	26	80,373	5.2	8	2.6	8
17	23	81,293	5.1	8	2.6	8
19	25	83,588	5.0	8	2.5	8
19	24	87,071	4.8	8	2.4	8
23	28	90,344	4.6	8	2.3	8
19	23	90,857	4.6	8	2.3	8
23	27	93,690	4.5	8	2.2	8
24	28	94,272	4.4	8	2.2	8
23	26	97,294	4.3	8	2.1	8
24	27	97,764	4.3	8	2.1	8
25	28	98,200	4.3	8	2.1	8
17	19	98,407	4.2	8	2.1	8
23	25	101,186	4.1	8	2.1	8
24	26	101,524	4.1	8	2.1	8
25	27	101,837	4.1	8	2.1	8
26	28	102,128	4.1	8	2.0	8
23	24	105,402	4.0	8	2.0	8
24	25	105,585	4.0	8	2.0	8
25	26	105,754	4.0	8	2.0	8
26	27	105,911	3.9	8	2.0	8
27	28	106,056	3.9	8	2.0	8
23	23	109,984	3.8	8	1.9	8
28	27	114,058	3.7	8	1.8	8
27	26	114,214	3.7	8	1.8	8
26	25	114,384	3.7	8	1.8	8
25	24	114,567	3.7	8	1.8	8
24	23	114,766	3.6	8	1.8	8
28	26	118,445	3.5	8	1.8	8
27	25	118,783	3.5	8	1.8	8
26	24	119,150	3.5	8	1.8	8
25	23	119,548	3.5	8	1.7	8
19	17	122,924	3.4	8	1.7	8
28	25	123,182	3.4	8	1.7	8
27	24	123,732	3.4	8	1.7	8
26	23	124,330	3.4	8	1.7	8
28	24	128,315	3.3	8	1.6	8
27	26	129,112	3.2	8	1.6	8
23	19	133,139	3.1	8	1.6	8
28	23	133,894	3.1	8	1.6	7
24	19	138,928	3.0	8	1.5	7
25	19	144,716	2.9	8	1.4	7
23	17	148,802	2.8	8	1.4	7
26	19	150,505	2.8	8	1.4	7
24	17	155,272	2.7	8	1.3	6
27	19	156,294	2.7	8	1.3	6
25	17	161,742	2.6	8	1.3	6
28	19	162,082	2.6	8	1.3	6
26	17	168,211	2.5	8	1.2	6
27	17	174,681	2.4	8	1.2	6
28	17	181,151	2.3	8	1.2	5

2515P Row Milo Low Rate 102 Cell Wheel (Singulating)

Wheel P/N's

403-080D (12000-18000 seeds/lb)
403-093D (10500-18000 seeds/lb)

10500-18000 seeds/pound Talc and Graphite Required			15" Row Spacing		30" Row Spacing	
			Range Sprockets Driver = 15 Driven = 60		Range Sprockets Driver = 15 Driven = 30	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven					
17	28	25,259	16.6	8	8.3	8
17	27	26,194	16.0	8	8.0	8
17	26	27,202	15.4	8	7.7	8
19	28	28,230	14.8	8	7.4	8
17	25	28,290	14.8	8	7.4	8
19	27	29,276	14.3	8	7.1	8
17	24	29,469	14.2	8	7.1	8
19	26	30,02	13.8	8	6.9	8
17	23	30,750	13.6	8	6.8	8
19	25	31,618	13.2	8	6.6	8
19	24	32,935	12.7	8	6.3	8
23	28	34,174	12.2	8	6.1	8
19	23	34,367	12.2	8	6.1	8
23	27	35,439	11.8	8	5.9	8
24	28	35,659	11.7	8	5.9	8
23	26	36,802	11.4	8	5.7	8
24	27	36,980	11.3	8	5.7	8
25	28	37,145	11.3	8	5.6	8
17	19	37,223	11.2	8	5.6	8
23	25	38,274	10.9	8	5.5	8
24	26	38,402	10.9	8	5.4	8
25	27	38,521	10.9	8	5.4	8
26	28	38,631	10.8	8	5.4	8
23	24	39,869	10.5	8	5.2	8
24	25	39,939	10.5	8	5.2	8
25	26	40,003	10.5	8	5.2	8
26	27	40,062	10.4	8	5.2	8
27	28	40,117	10.4	8	5.2	8
23	23	41,603	10.1	8	5.0	8
28	27	43,144	9.7	8	4.8	8
25	26	43,203	9.7	8	4.8	8
26	25	43,267	9.7	8	4.8	8
25	24	43,336	9.6	8	4.8	8
24	23	43,412	9.6	8	4.8	8
28	26	44,803	9.3	8	4.7	8
27	25	44,931	9.3	8	4.7	8
26	24	45,070	9.3	8	4.6	8
25	23	45,220	9.2	8	4.6	8
19	17	46,497	9.0	8	4.5	8
28	25	46,595	9.0	8	4.5	8
27	24	46,803	8.9	8	4.5	8
26	23	47,029	8.9	8	4.4	8
28	24	48,536	8.6	8	4.3	8
27	26	48,838	8.6	8	4.3	8
23	19	50,361	8.3	8	4.2	8
28	23	50,647	8.3	8	4.1	7
24	19	52,551	8.0	8	4.0	7
25	19	54,740	7.5	8	3.8	7
23	17	56,286	7.4	8	3.7	7
26	19	56,930	7.3	8	3.7	7
24	17	58,733	7.1	8	3.6	6
27	19	59,120	7.1	8	3.5	6
25	17	61,180	6.8	8	3.4	6
28	19	61,309	6.8	8	3.4	6
26	17	63,628	6.6	8	3.3	6
27	17	66,075	6.3	8	3.2	6
28	17	68,522	6.1	8	3.1	5

2515P Row Milo High Rate 270 Cell Wheel (Singulating)

Wheel P/N's

403-082D (12000-18000 seeds/lb)
403-091D (10500-14000 seeds/lb)

10500-18000 seeds/pound Talc and Graphite Required			15" Row Spacing		30" Row Spacing	
			Range Sprockets Driver = 15 Driven = 60		Range Sprockets Driver = 15 Driven = 30	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven					
17	28	66,861	6.3	8	3.1	8
17	27	69,338	6.0	8	3.0	8
17	26	72,005	5.8	8	2.9	8
19	28	74,728	5.6	8	2.8	8
17	25	74,885	5.6	8	2.8	8
19	27	77,495	5.4	8	2.7	8
17	24	78,005	5.4	8	2.7	8
19	26	80,476	5.2	8	2.6	8
17	23	81,397	5.1	8	2.6	8
19	25	83,695	5.0	8	2.5	8
19	24	87,182	4.8	8	2.4	8
23	28	90,460	4.6	8	2.3	8
19	23	90,973	4.6	8	2.3	8
23	27	93,810	4.5	8	2.2	8
24	28	94,393	4.4	8	2.2	8
23	26	97,418	4.3	8	2.1	8
24	27	97,889	4.3	8	2.1	8
25	28	98,326	4.3	8	2.1	8
17	19	98,533	4.2	8	2.1	8
23	25	101,315	4.1	8	2.1	8
24	26	101,654	4.1	8	2.1	8
25	27	101,967	4.1	8	2.1	8
26	28	102,259	4.1	8	2.0	8
23	24	105,536	4.0	8	2.0	8
24	25	105,720	4.0	8	2.0	8
25	26	105,889	3.9	8	2.0	8
26	27	106,046	3.9	8	2.0	8
27	28	106,192	3.9	8	2.0	8
23	23	110,125	3.8	8	1.9	8
28	27	114,203	3.7	8	1.8	8
25	26	114,360	3.7	8	1.8	8
26	25	114,530	3.7	8	1.8	8
25	24	114,713	3.6	8	1.8	8
24	23	114,913	3.6	8	1.8	8
28	26	118,596	3.5	8	1.8	8
27	25	118,935	3.5	8	1.8	8
26	24	119,302	3.5	8	1.8	8
25	23	119,701	3.5	8	1.7	8
19	17	123,081	3.4	8	1.7	8
28	25	123,340	3.4	8	1.7	8
27	24	123,890	3.4	8	1.7	8
26	23	124,489	3.4	8	1.7	8
28	24	128,479	3.3	8	1.6	8
27	26	129,277	3.2	8	1.6	8
23	19	133,309	3.1	8	1.6	8
28	23	134,065	3.1	8	1.6	7
24	19	139,105	3.0	8	1.5	7
25	19	144,901	2.9	8	1.4	7
23	17	148,992	2.8	8	1.4	7
26	19	150,697	2.8	8	1.4	7
24	17	155,470	2.7	8	1.3	6
27	19	156,493	2.7	8	1.3	6
25	17	161,948	2.6	8	1.3	6
28	19	162,289	2.6	8	1.3	6
26	17	168,426	2.5	8	1.2	6
27	17	174,904	2.4	8	1.2	6
28	17	181,382	2.3	8	1.2	5

2015P 100 Cell Wheel Soybeans

Wheel P/N 403-071D

1700-2200 seeds/pound Talc Required			15" Row Spacing		30" Row Spacing	
			Range Sprockets Driver = 30 Driven = 30		Range Sprockets Driver = 30 Driven = 15	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven					
17	28	98,928	4.2	8	2.1	6
17	27	102,592	4.1	8	2.0	6
17	29	106,538	3.9	8	2.0	6
19	28	110,566	3.8	8	1.9	5
17	25	110,799	3.8	8	1.9	5
19	27	114,661	3.6	8	1.8	5
17	24	115,416	3.6	8	1.8	5
19	26	119,071	3.5	8	1.8	5
17	23	120,434	3.5	8	1.7	5
19	25	123,834	3.4	8	1.7	5
19	24	128,994	3.2	8	1.6	5
23	28	133,843	3.1	8	1.6	4
19	23	134,602	3.1	8	1.6	4
23	27	138,801	3.0	8	1.5	4
24	28	139,663	3.0	8	1.5	4
23	26	144,139	2.9	8	1.5	4
24	27	144,835	2.9	8	1.4	4
25	28	145,482	2.9	8	1.4	4
17	19	145,788	2.9	8	1.4	4
23	25	149,905	2.8	8	1.4	4
24	26	150,406	2.8	8	1.4	4
25	27	150,870	2.8	8	1.4	4
26	28	151,301	2.8	8	1.4	4
23	24	156,151	2.7	8	1.3	4
24	25	156,422	2.7	8	1.3	4
25	26	156,673	2.7	8	1.3	4
26	27	156,905	2.7	8	1.3	4
27	28	157,120	2.7	8	1.3	4
23	23	162,940	2.6	7	1.3	3
28	27	168,975	2.5	7	1.2	3
27	26	169,207	2.5	7	1.2	3
26	25	169,457	2.5	7	1.2	3
25	24	169,729	2.5	7	1.2	3
24	23	170,024	2.5	7	1.2	3
28	26	175,474	2.4	7	1.2	3
27	25	175,975	2.4	7	1.2	3
26	24	176,518	2.4	7	1.2	3
25	23	177,108	2.4	7	1.2	3
19	17	182,109	2.3	7	1.1	3
28	25	182,493	2.3	7	1.1	3
27	24	183,307	2.3	7	1.1	3
26	23	184,193	2.3	7	1.1	3
28	24	190,096	2.2	6	1.1	3
27	23	191,277	2.2	6	1.1	3
23	19	197,243	2.1	6	1.1	3
28	23	198,361	2.1	6	1.1	3
24	19	205,819	2.0	6	1.0	3
25	19	214,394	2.0	6	1.0	3
23	17	220,448	1.9	5	0.9	2
26	19	222,970	1.9	5	0.9	2
24	17	230,033	1.8	5	0.9	2
27	19	231,546	1.8	5	0.9	2
25	17	239,617	1.7	5	0.9	2
28	19	240,122	1.7	5	0.9	2
26	17	249,202	1.7	5	0.8	2
27	17	258,787	1.6	5	0.8	2
28	17	268,371	1.6	4	0.8	2

2015P 110 Cell Wheel Soybeans

Wheel P/N's

403-070D (2200-2700 seeds/lb)
403-066D (3100-3800 seeds/lb)
403-061D (2700-3200 seeds/lb)
403-068D (3600-4000 seeds/lb)

2200-4000 seeds/pound Talc Required			15" Row Spacing		30" Row Spacing	
			Range Sprockets Driver = 30 Driven = 30		Range Sprockets Driver = 30 Driven = 15	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven					
17	28	108,820	3.8	8	1.9	7
17	27	112,851	3.7	8	1.9	7
17	29	117,191	3.6	8	1.8	6
19	28	121,623	3.4	8	1.7	6
17	25	121,879	3.4	8	1.7	6
19	27	126,127	3.3	8	1.7	6
17	24	126,957	3.3	8	1.6	6
19	26	130,978	3.2	8	1.6	6
17	23	132,477	3.2	8	1.6	6
19	25	136,218	3.1	8	1.5	5
19	24	141,893	2.9	8	1.5	5
23	28	147,228	2.8	8	1.4	5
19	23	148,063	2.8	8	1.4	5
23	27	152,681	2.7	8	1.4	5
24	28	153,629	2.7	8	1.4	5
23	26	158,553	2.6	8	1.3	5
24	27	159,319	2.6	8	1.3	5
25	28	160,030	2.6	8	1.3	4
17	19	160,367	2.6	8	1.3	4
23	25	164,895	2.5	8	1.3	4
24	26	165,447	2.5	8	1.3	4
25	27	165,957	2.5	8	1.3	4
26	28	166,431	2.5	8	1.3	4
23	24	171,766	2.4	8	1.2	4
24	25	172,064	2.4	8	1.2	4
25	26	172,340	2.4	8	1.2	4
26	27	172,595	2.4	8	1.2	4
27	28	172,833	2.4	8	1.2	4
23	23	179,234	2.3	8	1.2	4
28	27	185,872	2.2	8	1.1	4
27	26	186,127	2.2	8	1.1	4
26	25	186,403	2.2	8	1.1	4
25	24	186,702	2.2	8	1.1	4
24	23	187,026	2.2	8	1.1	4
28	26	193,021	2.2	8	1.1	4
27	25	193,572	2.2	8	1.1	4
26	24	194,170	2.2	8	1.1	4
25	23	194,819	2.1	8	1.1	4
19	17	200,320	2.1	7	1.0	3
28	25	200,742	2.1	7	1.0	3
27	24	201,638	2.1	7	1.0	3
26	23	202,612	2.1	7	1.0	3
28	24	209,106	2.0	7	1.0	3
27	23	210,405	2.0	7	1.0	3
23	19	216,967	1.9	7	1.0	3
28	23	218,198	1.9	7	1.0	3
24	19	226,400	1.8	7	0.9	3
25	19	235,834	1.8	6	0.9	3
23	17	242,493	1.7	6	0.9	3
26	19	245,267	1.7	6	0.9	3
24	17	253,036	1.7	6	0.8	3
27	19	254,701	1.6	6	0.8	3
25	17	263,579	1.6	6	0.8	3
28	19	264,134	1.6	6	0.8	3
26	17	274,122	1.5	5	0.8	2
27	17	284,665	1.5	5	0.7	2
28	17	295,208	1.4	5	0.7	2

2515P Soybeans 100 Cell Wheel (Singulating)

Wheel P/N 403-071D (1700-2200 seeds/lb)

1700-2200 seeds/pound Talc Required			15" Row Spacing		30" Row Spacing	
			Range Sprockets Driver = 30 Driven = 30		Range Sprockets Driver = 30 Driven = 15	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven					
17	28	99,054	4.2	8	2.1	6
17	27	102,723	4.1	8	2.0	6
17	29	106,674	3.9	8	2.0	6
19	28	110,707	3.8	8	1.9	5
17	25	110,941	3.8	8	1.9	5
19	27	114,808	3.6	8	1.8	5
17	24	115,563	3.6	8	1.8	5
19	26	119,223	3.5	8	1.8	5
17	23	120,588	3.5	8	1.7	5
19	25	123,992	3.4	8	1.7	5
19	24	129,159	3.2	8	1.6	5
23	28	134,014	3.1	8	1.6	4
19	23	134,774	3.1	8	1.6	4
23	27	138,978	3.0	8	1.5	4
24	28	139,841	3.0	8	1.5	4
23	26	144,323	2.9	8	1.4	4
24	27	145,020	2.9	8	1.4	4
25	28	145,668	2.9	8	1.4	4
17	19	145,974	2.9	8	1.4	4
23	25	150,096	2.8	8	1.4	4
24	26	150,598	2.8	8	1.4	4
25	27	151,063	2.8	8	1.4	4
26	28	151,494	2.8	8	1.4	4
23	24	156,350	2.7	8	1.3	4
24	25	156,622	2.7	8	1.3	4
25	26	156,873	2.7	8	1.3	4
26	27	157,105	2.7	8	1.3	4
27	28	157,321	2.7	8	1.3	4
23	23	163,148	2.6	7	1.3	3
28	27	169,190	2.5	7	1.2	3
27	26	169,423	2.5	7	1.2	3
26	25	169,674	2.5	7	1.2	3
25	24	169,946	2.5	7	1.2	3
24	23	170,241	2.5	7	1.2	3
28	26	175,698	2.4	7	1.2	3
27	25	176,200	2.4	7	1.2	3
26	24	176,744	2.4	7	1.2	3
25	23	177,335	2.4	7	1.2	3
19	17	182,342	2.3	7	1.1	3
28	25	182,726	2.3	7	1.1	3
27	24	183,541	2.3	7	1.1	3
26	23	184,428	2.3	7	1.1	3
28	24	190,339	2.2	6	1.1	3
27	23	191,521	2.2	6	1.1	3
23	19	197,495	2.1	6	1.1	3
28	23	198,615	2.1	6	1.1	3
24	19	206,081	2.0	6	1.0	3
25	19	214,668	1.9	6	1.0	3
23	17	220,729	1.9	5	0.9	2
26	19	223,255	1.9	5	0.9	2
24	17	230,326	1.8	5	0.9	2
27	19	231,842	1.8	5	0.9	2
25	17	239,923	1.7	5	0.9	2
28	19	240,428	1.7	5	0.9	2
26	17	249,520	1.7	5	0.8	2
27	17	259,117	1.6	5	0.8	2
28	17	268,714	1.6	4	0.8	2

2515P Soybeans 110 Cell Wheel (Singulating)

Wheel P/N's

403-070D (2200-2700 seeds/lb)
403-066D (3100-3800 seeds/lb)
403-061D (2700-3200 seeds/lb)
403-068D (3600-4000 seeds/lb)

2200-4000 seeds/pound Talc Required			15" Row Spacing		30" Row Spacing	
			Range Sprockets Driver = 30 Driven = 30		Range Sprockets Driver = 30 Driven = 15	
Transmission Sprockets		Seed Population (seeds/acre)	Seed Spacing (inches)	Max Plant speed (mph)	Seed Spacing (inches)	Max Plant speed (mph)
Driver	Driven					
17	28	108,959	3.8	8	1.9	7
17	27	112,995	3.7	8	1.9	7
17	26	117,341	3.6	8	1.8	6
19	28	121,778	3.4	8	1.7	6
17	25	122,035	3.4	8	1.7	6
19	27	126,289	3.3	8	1.7	6
17	24	127,119	3.3	8	1.6	6
19	26	131,146	3.2	8	1.6	6
17	23	132,646	3.2	8	1.6	6
19	25	136,392	3.1	8	1.5	5
19	24	142,075	2.9	8	1.5	5
23	28	147,416	2.8	8	1.4	5
19	23	148,252	2.8	8	1.4	5
23	27	152,876	2.7	8	1.4	5
24	28	153,825	2.7	8	1.4	5
23	26	158,755	2.6	8	1.3	5
24	27	159,522	2.6	8	1.3	5
25	28	160,234	2.6	8	1.3	4
17	19	160,572	2.6	8	1.3	4
23	25	165,106	2.5	8	1.3	4
24	26	165,658	2.5	8	1.3	4
25	27	166,169	2.5	8	1.3	4
26	28	166,644	2.5	8	1.3	4
23	24	171,985	2.4	8	1.2	4
24	25	172,284	2.4	8	1.2	4
25	26	172,560	2.4	8	1.2	4
26	27	172,816	2.4	8	1.2	4
27	28	173,053	2.4	8	1.2	4
23	23	179,463	2.3	8	1.2	4
28	27	186,109	2.2	8	1.1	4
27	26	186,365	2.2	8	1.1	4
26	25	186,641	2.2	8	1.1	4
25	24	186,940	2.2	8	1.1	4
24	23	187,265	2.2	8	1.1	4
28	26	193,267	2.2	8	1.1	4
27	25	193,820	2.2	8	1.1	4
26	24	194,418	2.2	8	1.1	4
25	23	195,068	2.1	8	1.1	4
19	17	200,576	2.1	7	1.0	3
28	25	200,998	2.1	7	1.0	3
27	24	201,895	2.1	7	1.0	3
26	23	202,871	2.1	7	1.0	3
28	24	209,373	2.0	7	1.0	3
27	23	210,674	2.0	7	1.0	3
23	19	217,244	1.9	7	1.0	3
28	23	218,476	1.9	7	1.0	3
24	19	226,690	1.8	7	0.9	3
25	19	236,135	1.8	6	0.9	3
23	17	242,802	1.7	6	0.9	3
26	19	245,580	1.7	6	0.9	3
24	17	253,359	1.7	6	0.8	3
27	19	255,026	1.6	6	0.8	3
25	17	263,916	1.6	6	0.8	3
28	19	264,471	1.6	6	0.8	3
26	17	274,472	1.5	5	0.8	2
27	17	285,029	1.5	5	0.7	2
28	17	295,586	1.4	5	0.7	2

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