

Logan County Soil & Water Conservation District

Tye Drill

Grain Box Seed Chart

This is the front seed box.

The rates below are for drill sprocket ratio of 1:1. This ratio exists when the 26 tooth sprocket is installed on the front drive shaft that is painted orange. (The sprockets are on the right end of the drill, when facing the tractor.) A 13 tooth sprocket, in the bucket of accessories, may be installed which will reduce the drill to half speed. This 13 tooth sprocket will cut the number of pounds being applied to half the rate shown in the chart below.

Cup Opening in inches	Pounds of Seed per Acre					
	Wheat	Oats	Fescue	Soybeans	Milo	Ky. Bluegrass
1/8	-----	-----	-----	-----	-----	6
3/16	29	-----	8.4	-----	14	16
1/4	51	12	18	-----	37	25
5/16	72	26	27	32	60	35
3/8	94	40	37	56	83	44
7/16	116	55	46	79	106	54
1/2	138	69	55	102	130	64
9/16	160	83	65	125	153	72
5/8	182	97	74	148	176	82
11/16	203	111	84	172	200	92
3/4	225	125	93	195	222	101
13/16	247	139	102	218	246	110
7/8	270	154	112	241	268	120

Other notes: You will need to put spacers in the hydraulic cylinders on both ends of the drill in order to regulate the depth of seeding. Spacers should be in the bucket of accessories, but you may need to supply additional ones.

A scale for setting the seeder opening is located the 2nd seeder cup from the right side of the drill. The reading on the scale is equal to the actual opening through which the seed will flow. Read the scale by noting the measurement that lines up with the straight edge of the seeder housing. Each mark represents 1/16". The scale is best seen by kneeling by the drill and looking up towards the grain shaft and locating the 2nd cup. To adjust, loosen the locknut or lock handle on the grain shaft and turn the hand wheel clockwise to reduce the cup opening or counterclockwise to increase the cup opening. Tighten the locknut or lock handle before resuming drilling. When closing the seeder opening on a loaded hopper, it is imperative to slowly turn the drive wheel while turning the hand wheel so seed can escape from the cups.

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Tye Drill

Grass and Legume Seed Box Chart

This is the middle seed box

The rates below are for drill sprocket ratio of 1:1. This ratio exists when the 26 tooth sprocket is installed on the front drive shaft that is painted orange. (The sprockets are on the right end of the drill, when facing the tractor.) A 13 tooth sprocket, in the bucket of accessories, may be installed which will reduce the drill to half speed. This 13 tooth sprocket will cut the number of pounds being applied to half the rate shown in the chart below.

Cup Opening in inches	Pounds of Seed per Acre				
	Alfalfa & Ladino	Timothy	Redtop & Bluegrass	Orchard grass	Switchgrass
1/8	3	1.7	1.2	-----	-----
3/16	4.7	3.3	1.8	-----	4
1/4	6.3	4.9	2.4	0.9	5.5
5/16	8	6.5	2.9	1.3	7
3/8	9.6	8.1	3.5	1.7	8.2
7/16	11.2	9.7	4.1	2.1	9.5
1/2	12.8	11.3	4.7	2.4	11
9/16	14.5	13	5.3	2.8	12
5/8	16.1	14.6	5.9	3.2	13.4
11/16	17.7	16.2	6.5	3.6	14.7
3/4	19.3	18	7.1	4	16
13/16	21	19.4	7.7	4.3	17.3
7/8	22.6	21	8.3	4.7	18.7
15/16	24	22.6	8.8	5.1	20
1"	26	24.2	9.4	5.5	21.3

Other notes: You will need to put spacers in the hydraulic cylinders on both ends of the drill in order to regulate the depth of seeding. Spacers should be in the bucket of accessories, but you may need supply additional ones.

A scale for setting the seeder opening is located the 2nd seeder cup from the right side of the drill. The reading on the scale is equal to the actual opening through which the seed will flow. Read the scale by noting the measurement that lines up with the straight edge of the seeder housing. Each mark represents 1/16". The scale is best seen by kneeling on the walkboard and looking down thru the space between the legume box and the back box. Read the scale against the straight edge of the seeder cup housing. Loosen the lock handle on the end of the shaft and turn clockwise to reduce the cup opening or counterclockwise to increase the cup opening. When closing the seeder opening on a loaded hopper, it is imperative to slowly turn the handle on the legume box while also turning the drive wheel to allow seed to escape the cups.