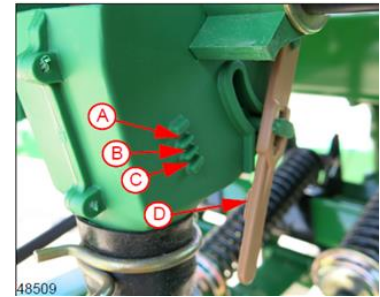


SEED/GRAINS: Your seed will go in the **FRONT box** closest to your tractor. 12 bushel max capacity

**DO NOT FILL SEED BOXES UNTIL YOU ARE IN THE FIELD!
DO NOT TRANSPORT WITH SEED IN THE BOXES!**

- **Make sure all seed cup doors are in the recommended position for your seed size BEFORE putting seed in; if cups are open seed will run right through the box when you fill the drill with seed**

- A-** Wheat other small grains
- B-** Soybeans other larger grains
- C-** Fragile seeds, or if seeds are cracking in B position.
- D-** Clean out, will drain all seed



Tan lever must be in position A, B, or C (UP) WHEN SEEDING

Position D (down) is only for clean out and will leave seed cup wide open allowing seed to run through bin freely.



- See page 5 of the seed rate charts for instructions on how to calibrate seeding rate for your specific seed if you choose, otherwise you can **use the provided charts for approximate seeding rates**.
 - Locate your seed type on pages 8-16 and determine approximately how many pounds per acre you wish to drill. Pounds per acre are the numbers in the charts. *You should calibrate each time! Factors that affect seeding rates are: weight of seed, size of seed, relative humidity and moisture content of seed, ratio of inert material to seed, different proportions of seed types affecting density, tire configuration, tire pressure, and tire slippage. The charts in the manual are based on factory tires at recommended inflation.*

- Move gearbox selector handle to Drive Type 1, 2, 3 or 4 and the seed rate handle on the front right from 0-100; to match the pounds per acre setting you have chosen off the chart. Do NOT adjust the seed rate handle on the back of the drill.



Gear Box Selector Handle



- Hook drill to tractor, attach hydraulic hoses, and raise drill to remove both transport locks. Make sure hydraulic connections are set on LOW FLOW and the drill is GENTLY lowered. High Flow and/or excessive force lowering drill will cause damage to the hydraulic valve and depth stop.
- In field conditions, lower the drill into soil, pull forward to put openers in ground to desired depth. Shut off tractor, loosen the nut and bolt that secure the stop weldment to the cylinder (on the left cylinder

only) Slide the weldment up the cylinder until it contacts the valve actuator, then slide it another 1/8" and tighten bolts. (See figures 11 & 12 on page 18 of the operator's manual)



- The red piece in photo is safety lock for transporting drill; there is one on each side of the drill. Remove before seeding.
- The stop weldment that is on the left cylinder is raised and lowered (by GENTLY loosening/tightening bolt) to adjust the cut depth of the coulters.
- The weldment **must be near the middle of the cylinder, and pointing up, as shown in photo while in use and before attempting to replace the safety locks.** The safety lock will not go on if the stop weldment is not between the two pins of the safety lock.
- DO NOT turn the stop weldment around, it should NOT point down towards the drill frame or it will cause the lift mechanism to malfunction.
- **If you are having trouble with the depth control (ie: stop weldment is sliding down the cylinder) you are using too much force lowering the drill!** Make sure hydraulic connections are set on LOW FLOW and the drill is GENTLY lowered. High Flow and/or excessive force lowering drill will cause damage to the hydraulic valve and depth stop.

- See page 38 of the operator's manual for information on **setting press wheels for seed depth.** *T handles* should be closer to implement for shallower seeding and further away from implement for deeper seeding. Each increment adjusts depth by approx. 1/8th of an inch. Depth range is from 0 to 3 1/2 inches
- Add your seed to the **FRONT box.** Engage the left wheel and begin drilling.
- When you are finished- disengage the left wheel, and record the acreage meter reading. >>Snap a photo of acreage meter reading before you begin seeding and again after you are finished. Push the * button to wake meter up, and also to rotate through readings the field/total acres is the reading you want.
- Complete the steps under "Before Returning Drill" on back of the rental agreement.



Seed type: _____ APPROX Pounds per acre: _____

Drive type: _____ Seed Rate Handle # _____

If seeding fescue at rate higher than 8 pounds per acre you will use FRONT BOX (under 8 pounds use small back box)

**Orange pages*

Rate Charts, Main Seed Box

Charts in U.S. customary units.
 Main charts begin on page 92.

Alfalfa (*Medicago sativa*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 60 pounds/bushel)																				
7.5 in		0	4.6	6.7	9.1	12	15	18	21	25	28	32	36	39	43	47	50	54	57	61	64	66
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	9.5	14	19	24	30	37	44	51	58	66	73	81	89	96	104	111	118	125	131	136
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	15	22	29	37	46	55	65	75	86	97	108	119	130	141	151	162	171	180	189	196
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	25	35	47	60	75	90	106	123	140	158	176	194	212	230	247	264	279	294	308	320

32291C

Bahia Grass (*Paspalum notatum*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 40 pounds/bushel)																				
7.5 in		0	2.2	3.1	4.5	6.3	8.5	11	14	17	20	23	27	30	33	37	40	43	46	48	50	52
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	4.4	6.4	9.3	13	18	23	28	35	41	48	55	62	69	76	82	88	94	99	104	107
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	6.6	10	14	20	26	34	43	52	62	72	82	93	103	113	123	132	141	149	156	161
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	11	16	23	32	43	56	70	85	101	117	134	151	168	185	201	216	230	243	254	263

32292C

Barley (*Hordeum vulgare*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 51 pounds/bushel)																				
7.5 in		0	4.7	6.3	8.4	11	14	17	20	24	27	31	35	39	42	45	49	51	54	56	57	58
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	10	13	17	22	28	35	42	49	56	64	72	79	86	93	100	105	110	115	118	120
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	14	19	26	34	43	52	62	72	83	94	105	116	126	137	147	156	165	173	180	186
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	22	32	43	56	70	85	101	118	135	153	171	189	206	223	239	255	269	282	293	303

32293C

Rate Charts, Main Seed Box, continued...

Buckwheat (*Fagopyrum esculentum*)

Rows	Seed Rate Handle Setting																				
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
7.5 in	Drive Type: 1 Seed Rate in Pounds Per Acre (based on 48 pounds/bushel)																				
	0	3.9	5.7	7.9	10	13	16	20	23	27	30	34	37	41	44	47	50	52	54	55	57
7.5 in	Drive Type: 2 Seed Rate in Pounds Per Acre																				
	0	8.0	12	16	22	27	34	41	48	55	62	70	77	84	90	96	102	107	111	114	116
7.5 in	Drive Type: 3 Seed Rate in Pounds Per Acre																				
	0	15	18	24	31	39	49	60	72	85	97	110	123	136	148	159	170	179	187	192	197
7.5 in	Drive Type: 4 Seed Rate in Pounds Per Acre																				
	0	24	30	39	50	64	80	98	118	138	159	180	201	222	241	260	277	292	304	314	320

32295C

Buffalograss (*Buchloe dactyloides*)

Rows	Seed Rate Handle Setting																				
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
7.5 in	Drive Type: 1 Seed Rate in Pounds Per Acre (based on 23 pounds/bushel)																				
	0	1.2	1.9	2.9	4.0	5.3	6.6	8.0	9.4	11	12	14	15	16	17	18	19	20	20	20	20
7.5 in	Drive Type: 2 Seed Rate in Pounds Per Acre																				
	0	2.4	4.0	6.0	8.3	11	14	16	19	22	25	28	31	33	36	38	39	40	41	41	41
7.5 in	Drive Type: 3 Seed Rate in Pounds Per Acre																				
	0	4.4	6.4	8.9	12	16	20	24	28	33	37	42	46	50	54	57	60	62	63	63	63
7.5 in	Drive Type: 4 Seed Rate in Pounds Per Acre																				
	0	7.2	10	15	20	26	32	39	46	54	61	68	75	82	88	93	97	101	103	103	103

32296C

Bermuda Grass (*Cynodon dactylon*)

Rows	Seed Rate Handle Setting																				
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
7.5 in	Drive Type: 1 Seed Rate in Pounds Per Acre (based on 60 pounds/bushel)																				
	0	1.8	3.5	5.3	7.2	9.1	11	13	15	17	19	21	23	25	27	29	31	33	35	36	38
7.5 in	Drive Type: 2 Seed Rate in Pounds Per Acre																				
	0	3.6	7.2	11	15	19	23	27	31	35	39	43	47	51	55	59	63	67	71	75	78
7.5 in	Drive Type: 3 Seed Rate in Pounds Per Acre																				
	0	5.7	11	17	22	28	34	40	46	52	58	64	70	76	81	87	92	97	102	107	112
7.5 in	Drive Type: 4 Seed Rate in Pounds Per Acre																				
	0	9.3	18	27	36	46	55	65	75	85	94	104	114	123	132	141	150	159	167	175	182

32294C

FRONT

Rate Charts, Main Seed Box, continued...

K-31 Fescue (*Festuca*) *

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 21 pounds/bushel)																				
7.5 in		0	1.9	2.9	4.0	5.2	6.4	7.7	9.0	10	12	13	14	16	17	18	19	20	21	21	22	23
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	3.9	5.9	8.2	11	13	16	18	21	24	27	29	32	34	37	39	41	43	44	45	46
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	6.6	9.3	12	16	19	23	27	31	35	39	43	47	51	55	58	61	64	67	69	70
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	11	15	20	25	31	37	44	50	57	64	70	77	83	89	95	100	105	109	112	115

32297C

Flax (*Linum usitatissimum*) or Sudan (*Sorghum bicolor subsp. drummondii*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 55 pounds/bushel)																				
7.5 in		0	4.6	6.8	9.3	12	15	19	22	26	29	33	37	41	44	48	52	55	59	62	65	67
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	9.4	14	19	25	31	38	45	53	60	68	76	84	91	99	107	114	121	127	133	139
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	14	21	29	37	46	56	66	76	86	97	108	118	129	140	150	160	169	179	187	195
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	23	35	47	61	75	91	107	124	141	158	175	193	210	228	244	261	276	291	305	318

32298C

Eastern Gamma Grass - Pete (*Tripsacum dactyloides*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre																				
7.5 in		0	3.8	5.3	7.0	9.0	11	14	16	19	21	24	26	29	31	34	36	38	40	41	42	43
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	7.9	11	14	18	23	28	33	38	44	49	54	60	65	69	74	78	81	84	86	88

32299C

* Fescue can be seeded down to 0.2#/ac from small seed box.

Rate Charts, Main Seed Box, continued...

Kentucky Blue Grass (*Poa pratensis*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 23 pounds/bushel)																				
7.5 in		0	1.5	2.1	2.9	3.7	4.6	5.6	6.7	7.7	8.8	10	11	12	13	14	15	16	17	17	18	18
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	3.0	4.4	5.9	7.7	10	12	14	16	18	20	23	25	27	29	31	33	34	35	37	37
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	4.8	7.2	10	12	15	18	21	24	27	30	33	36	39	42	44	47	49	51	53	55
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	7.9	12	16	20	25	29	34	39	44	49	54	59	63	68	72	76	80	83	87	89

32300C

Millet (*Pennisetum glaucum, Setaria italica, Panicum miliaceum, Eleusine coracana*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 60 pounds/bushel)																				
7.5 in		0	4.8	6.8	9.2	12	15	18	21	25	28	32	35	39	42	46	49	52	55	58	60	62
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	10	14	19	24	30	37	43	51	58	65	73	80	87	94	101	107	113	118	123	127
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	14	20	28	36	45	55	65	76	87	98	109	120	131	141	151	161	170	178	185	191
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	22	33	45	59	74	90	107	124	142	160	178	196	213	230	247	262	277	290	301	311

32301C

Milo (*Sorghum*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 60 pounds/bushel)																				
7.5 in		0	4.6	7.1	10	14	17	22	26	31	36	40	45	50	55	60	64	68	72	75	78	80
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	9.4	15	21	28	36	44	54	63	73	83	93	103	113	122	131	140	148	154	160	165

32302C

Sorghum-Sudan - use this chart

Rate Charts, Main Seed Box, continued...

Oats (*Avena sativa*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 37 pounds/bushel)																				
7.5 in		0	1.8	3.1	4.5	6.1	7.8	10	12	14	16	18	20	22	24	26	28	30	32	33	35	36
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	3.7	6.3	9.2	13	16	20	24	28	32	37	41	46	50	54	58	62	65	69	71	74
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	6.8	10	14	18	24	30	36	43	50	57	64	71	78	84	90	96	101	105	109	111
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	11	16	22	30	39	48	59	70	81	93	104	115	127	137	147	156	164	171	177	181

32303C

Orchard Grass Potomac (*Dactylis glomerata*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 18 pounds/bushel)																				
7.5 in		0	1.1	1.5	2.0	2.7	3.3	4.1	4.9	5.8	6.7	7.6	8.5	9.4	10	11	12	13	13	14	14	15
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	2.3	3.1	4.2	5.5	6.9	8.5	10	12	14	16	18	19	21	23	25	26	27	28	29	30
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	3.3	4.6	6.1	7.9	10	12	14	17	20	22	25	27	30	32	35	37	39	41	43	44
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	5.4	7.4	10	13	16	20	24	28	32	36	40	45	49	53	57	61	64	67	70	72

32304C

Peas (*Pisum sativum*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 61 pounds/bushel)																				
7.5 in		0	2.1	5.2	8.7	13	17	21	26	30	35	40	44	49	53	57	61	64	67	70	72	73
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	4.4	11	18	26	34	43	53	62	72	81	91	100	109	117	125	132	138	143	147	150
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	3.2	12	22	33	45	58	71	84	98	112	125	138	151	163	174	184	192	199	205	209
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	5.2	20	36	54	74	94	116	138	160	182	204	225	246	265	283	299	313	325	334	341

32305C

Rate Charts, Main Seed Box, continued...

Pinto Beans (*Phaseolus vulgaris*)

	Seed Rate Handle Setting																				
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1																				
	Seed Rate in Pounds Per Acre (based on 61 pounds/bushel)																				
7.5 in	0	4.1	6.8	10	14	18	22	27	32	37	42	47	52	56	60	64	68	71	73	75	76
	Drive Type: 2																				
	Seed Rate in Pounds Per Acre																				
7.5 in	0	8.5	14	21	28	37	46	56	65	76	86	96	106	115	124	132	140	146	151	155	157
	Drive Type: 3																				
	Seed Rate in Pounds Per Acre																				
7.5 in	0	14	22	31	42	54	67	81	95	109	124	139	153	167	180	192	203	213	221	227	231
	Drive Type: 4																				
	Seed Rate in Pounds Per Acre																				
7.5 in	0	23	35	51	68	88	109	131	155	178	203	226	250	272	294	313	331	347	360	369	376

32306C

Rape (*Brassica napus*)

	Seed Rate Handle Setting																				
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1																				
	Seed Rate in Pounds Per Acre (based on 51 pounds/bushel)																				
7.5 in	0	4.2	6.2	8.5	11	14	16	19	22	25	28	31	34	37	40	43	46	49	52	54	56
	Drive Type: 2																				
	Seed Rate in Pounds Per Acre																				
7.5 in	0	8.6	13	18	23	28	34	39	45	52	58	64	70	77	83	89	95	101	106	111	116
	Drive Type: 3																				
	Seed Rate in Pounds Per Acre																				
7.5 in	0	13	18	25	31	39	47	56	65	75	84	94	104	113	122	131	139	147	154	161	166
	Drive Type: 4																				
	Seed Rate in Pounds Per Acre																				
7.5 in	0	22	30	40	51	64	77	91	106	122	137	153	169	184	199	214	227	240	252	262	271

32307C

Rice, Long Grain (*Oryza sativa indica*)

	Seed Rate Handle Setting																				
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1																				
	Seed Rate in Pounds Per Acre (based on 47 pounds/bushel)																				
7.5 in	0	0.9	3.3	5.8	8.3	11	14	16	19	21	24	26	29	31	33	35	37	39	40	41	42
	Drive Type: 2																				
	Seed Rate in Pounds Per Acre																				
7.5 in	0	1.8	6.7	12	17	22	28	33	39	44	49	54	59	64	68	72	76	79	82	85	87
	Drive Type: 3																				
	Seed Rate in Pounds Per Acre																				
7.5 in	0	3.0	10	18	25	33	40	48	56	63	71	78	85	92	99	106	113	119	125	130	136
	Drive Type: 4																				
	Seed Rate in Pounds Per Acre																				
7.5 in	0	4.9	17	29	41	53	66	78	91	103	115	127	139	151	162	173	183	194	203	213	221

32308C

Rate Charts, Main Seed Box, continued...

**Rice, Short Grain (*Oryza sativa japonica*,
Oryza sativa sinica)**

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 43 pounds/bushel)																				
7.5 in		0	2.5	4.6	6.9	9.3	12	14	17	20	23	25	28	31	33	36	38	40	42	44	46	47
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	5.2	9.5	14	19	24	30	35	41	47	52	58	63	69	74	79	83	87	91	94	97
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	11	16	21	28	35	43	51	59	68	77	85	94	102	110	117	123	128	133	136	138
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	18	26	35	45	57	70	83	97	111	125	139	153	166	179	190	200	209	217	222	225

32309C

Rye (*Secale cereale*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 57 pounds/bushel)																				
7.5 in		0	3.8	6.6	10	14	18	22	27	31	36	41	46	51	56	61	65	69	73	76	79	81
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	7.8	14	20	28	36	45	55	65	75	85	95	105	115	124	133	142	149	156	162	167
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	13	21	31	42	54	67	81	96	111	126	142	157	173	188	202	216	228	240	250	259
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	22	35	50	68	88	109	132	156	181	206	231	257	282	306	329	352	372	391	407	422

32310C

**Perennial Rye Grass - Palmer
(*Lolium perenne*, *Lolium multiflorum*)**

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 36 pounds/bushel)																				
7.5 in		0	2.4	3.6	4.9	6.3	7.9	10	11	13	15	17	19	21	22	24	26	27	29	30	31	31
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	4.9	7.3	10	13	16	20	23	27	31	35	39	42	46	50	53	56	59	61	63	65
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	10	12	15	19	24	29	35	41	47	54	61	67	73	79	85	90	94	97	99	101
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	16	19	24	31	38	47	57	67	77	88	99	109	120	129	138	146	153	158	162	164

32311C

Rate Charts, Main Seed Box, continued...

Soybeans (*Glycine max*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 58 pounds/bushel)																				
7.5 in		0	4.0	6.9	10	14	18	22	26	31	35	40	44	49	53	57	61	64	67	70	72	74
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	8.3	14	21	29	37	45	54	63	73	82	91	100	109	117	125	132	139	144	149	152
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	11	21	31	43	55	67	80	93	106	120	133	146	158	170	182	193	203	212	220	228
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	18	34	51	70	89	110	131	152	173	195	216	237	258	278	297	314	331	346	359	371

32312C

Sunflower (*Helianthus annuus*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 28 pounds/bushel)																				
7.5 in		0	0.3	1.7	3.2	4.8	6.5	8.3	10	12	14	16	18	20	22	23	25	27	28	30	31	32
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	0.6	3.4	6.5	10	13	17	21	25	29	33	37	41	44	48	52	55	58	61	64	66
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	2.5	5.4	9.0	13	17	22	27	33	38	44	50	55	61	66	71	76	80	84	88	90
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	4.1	8.9	15	21	28	36	45	54	63	72	81	90	99	108	116	124	131	137	143	147

32313C

Tiffany Teff, Coated (*Eragrostis tef*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 65 pounds/bushel)																				
7.5 in		0	4.0	6.3	8.8	12	14	18	21	24	28	31	35	39	43	47	51	54	58	62	65	69
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	8.3	13	18	24	30	36	43	50	57	65	72	80	88	96	104	112	119	127	134	142
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	12	19	27	36	45	54	64	75	86	97	109	120	132	144	156	167	179	190	202	212
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	20	32	44	58	73	88	105	122	140	158	177	196	215	235	254	273	292	311	329	346

32314C

Rate Charts, Main Seed Box, continued...

Wheat (*Triticum*)

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 64 pounds/bushel)																				
7.5 in		0	7.1	8.9	11	14	18	22	26	30	35	40	45	50	55	59	64	68	72	75	78	80
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	15	18	23	29	37	45	53	63	72	82	93	103	113	122	131	140	147	154	159	164
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	18	26	34	44	55	68	80	94	108	122	136	150	164	177	190	201	212	222	230	236
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	30	42	56	72	90	110	131	153	176	199	222	245	267	289	309	329	346	362	375	385

32315C

**Wheatgrass (*Pascopyrum smithii*,
Agropyron elongatum)**

		Seed Rate Handle Setting																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rows	Drive Type: 1	Seed Rate in Pounds Per Acre (based on 23 pounds/bushel)																				
7.5 in		0	0.9	1.7	2.4	3.2	4.0	4.9	5.8	6.6	7.5	8.4	9.3	10	11	12	13	14	14	15	16	16
	Drive Type: 2	Seed Rate in Pounds Per Acre																				
7.5 in		0	1.9	3.4	4.9	6.6	8.3	10	12	14	15	17	19	21	23	25	26	28	29	31	32	33
	Drive Type: 3	Seed Rate in Pounds Per Acre																				
7.5 in		0	3.5	5.3	7.4	10	12	15	17	20	23	25	28	31	33	36	39	41	43	45	47	49
	Drive Type: 4	Seed Rate in Pounds Per Acre																				
7.5 in		0	5.7	8.7	12	16	20	24	28	32	37	41	46	50	55	59	63	67	70	74	77	79

32316C

Franklin County Conservation District No Till Drill Rental Agreement

_____ will rent the 606NT Drill from the Franklin County Conservation District

On _____ in accordance of the following rental conditions:

- **Renter assumes all risks** and will pay all costs and expenses arising out of the use, possession or maintenance thereof, and is to give immediate written notice to lesser stating damage to, or loss of possession of said equipment by any cause whatsoever.
- **Renter is responsible to pay the cost for any repairs** that are caused by negligence while the drill is rented to you, including flat tires, damaged/missing parts, etc. Report any malfunctions or damage immediately.
- **Scheduling allows for 20 acres per day.** We reserve the right to assess a charge of \$240 per day for everyday the drill rented to you, during acceptable weather conditions and is setting idle. **We reserve the right to charge additional fee if drill is not returned on time.**
- **All equipment remains the personal property of the Franklin County Conservation District.** The Franklin County Conservation District reserves the right to possession of equipment at any time. The drill is provided as a service to Franklin County landowners through the Fr Co Conservation District; we appreciate you caring for the drill while in use! **Returning it in as good OR better condition than you picked it up is appreciated!**
- **Fr Co Conservation District does not provide any type of guarantee for grass or crop stand.** The owner’s manual provided on the drill, and the attached information sheets, are to be used as informational guides and are in no way exact.
- **Always lift drill out of the ground when turning at row ends and for other short-radius turns.**
- The drill only needs hydraulics to lift, it does NOT need constant down force. Be cautious when lowering drill, it is NOT a heavy piece of equipment. **The depth stop weldment MUST remain in the middle of cylinder, pointing upward. SEE PHOTOS**
- **Do not transport the drill with seed in the boxes for any reason!** No fertilizer or “treated seed” is to be used in drill
- **Renter will be charged \$25.00 cleaning fee per box** if seed boxes have not been cleaned out when returned.
- **Make sure hydraulic hoses and light wiring are secure to tongue of drill so they do not drag on roadway.** Lights are wired to connect to tractor, if pulling after dark YOU need to provide adaptor for truck plug.
- **Please take the jack completely OFF the tongue when planting to avoid damaging/bending jack. You bend it, you buy it!**
- **Road speed should not exceed 20MPH FOR ANY REASON and drive must be disengaged; field speed should not exceed 3 or 4 MPH.**
- **Acreage meter readings will be used to calculate total rental fee.** You must RECORD ACREAGE METER READING. >>Snap a photo of acreage meter reading before you begin seeding and again after you are finished. Push the * button to wake meter up, and also to rotate through readings the field/total acres is the reading you want.

Beginning # _____ Ending # _____ = Total Acres _____
\$150 minimum fee allows for TEN Acres; anything over ten acres is additional \$12/acre.

The drill will be returned to the USDA Service Center by (date/time)_____

I acknowledge that I have read the above information and agree to all policies as listed.

Signature _____
Phone # _____

Before leaving with the drill you should: Road speed should not exceed 20MPH

- **Check to see that the tires are properly inflated**- if tire is low or flat call let us know so you are not charged for tire repair.
- **Check drill for damage, worn or missing parts**- report any damage or questionable damage so you are not charged for repairs.

Basic Field Operation

1. Hitch drill to a suitable tractor. **40hp is minimum requirement.**
2. Raise drill. Hold at raised for several seconds to re-phase lift cylinders. Set circuit to Neutral. Shut off tractor.
3. Remove red transport locks from cylinders. Move them to secure storage location.
4. Engage drive with lock-out hub on the drive wheel. Pull pin away from hub. Rotate 90 degrees. Release into deeper notch pair. *Note: Pin may not set fully immediately but will at next drill movement.*
5. Set seed population per rate chart or calibration, from Seed Rate manual.
6. Set seed cup handle if using FRONT Seed Box. **If you skip this seed could end up on the ground where you are filling drill!**
7. Load appropriate box with clean seed.
8. Raise drill. Check that feed cups, seed tubes and drives are working properly and free from foreign material by looking for seed flow under each opener.
9. Lower drill. Pull forward. Stop. Check tool bar height and opener depth.
10. Begin seeding. **Do not exceed 3 to 4 mph in the field.**
11. Always lift drill out of the ground when turning at row ends and for other short-radius turns. Seeding stops automatically as drill is raised.

There is a copy of both the Seed Rate Charts AND the Operators Manual in the manual box on the front of the drill; if you have any questions please refer to the appropriate manual.

Before Returning the Drill:

- **CLEAN OUT ALL SEED BOXES!** See page 3 of seed charts for information on adjusting seed cup doors for clean out on front box. Leaving seed in the drill is like leaving money in the drill. A shop-vac works well. We will assess a \$25.00 cleaning fee PER BOX if needed.
- Raise drill, re-install both transport locks on each side of the drill. **The transport locks should be placed on from the underside of the cylinders** (see page 22, figure 16 of operator manual).
- **On the left the cylinder, the stop weldment should be pointing upward, through the open portion of the transport lock. Do NOT remove the stop weldment.**
- Unhook hydraulic hoses from your tractor!
- **Disengage the driver side wheel!** If you do not disengage the wheel the acreage meter will keep rolling, remember you are charge based on the acreage meter reading.
- **Record ending reading from acreage meter on the front of this paper.**
- Check the drill for damage, worn or missing parts and that the tires are properly inflated. **If the drill has a flat or low tire that you did not reports as being flat or low before you started you are responsible for getting the tire repaired!**
- Also make sure drill is clean, inside and out. Empty seed boxes and if you get into excessive dirt or have hydraulic fluid on the drill- please clean it!
- Make sure you have 9 sprockets on the sprocket storage bars on the right side of the drill and both transport locks are securely in place.
- Make sure you returned the manual to the storage box if you used the manual.
- Report any problems to the Conservation District!
- You are now ready to return the drill to the Conservation District Office. **Do not travel any faster than 20 mph when pulling the drill!**

Remember to return the drill on time, there are other people lined up to rent it after you.

Park the drill in the northwest corner of the parking lot at the USDA Service Center in the designated "Drill Parking Only" area. Please park as close the grass on the west side of concrete as possible.