

others in blossom, while they are more liable to rust, on account of not ripening as early as the drilled wheat. The reason is obvious. When grain is sown broadcast and harrowed in, some are covered too deeply and are late; some are covered at a proper depth, and these are found, on examination, to be the strongest plants, with the best heads. Some are not covered deep enough, and come sickly and weak (a short plant and a poor head,) on account of the moisture having been taken up by evaporation from their roots, while a good many are not covered at all, and, of course, are lost.

SEPARATE PARTS OF THE FARMER'S FRIEND GRAIN DRILL.

No.		\$ C.	No.		\$ C.
1.	Hub Gear Wheel.....	1 00	54.	Grass Seed Gear Shifter...	0 38
4.	Peck Wheel.....	0 75	41.	Ground Tube.....	2 00
5.	" ".....	0 75	"	" Point.....	0 38
6.	" ".....	0 50	46.	End Plate, Right Hand...	1 50
7.	" ".....	0 50	48.	Back Roller Rack, R. H..	1 00
8.	" ".....	0 50	49.	" " L. H..	1 00
9.	" ".....	0 50	52.	" " Lever Socket	0 38
12.	Front Feed Spout.....	0 37	54.	" " Gear.....	0 75
13.	Notch Plate.....	0 50	55.	" " Pawl.....	0 50
14.	Back-Feed Spout.....	0 75	60.	Shifter Block.....	0 15
15.	Grain Lever.....	1 00	62.	Back Roller Jaw.....	0 35
	" Spring.....	0 25	64.	Double Gear Feed Wheel.	1 00
30.	" " Shifter Cam.....	0 40	45.	End Plate, Left Hand....	1 50
34.	Distributor.....	1 00	87, 88.	Box Braces (each).....	0 37
81.	Grass Seed Cam.....	0 50	100.	Casing.....	0 75
82.	" " Lever Holder..	0 50		Sheet Iron Tubes, per set of 3..	0 45
83.	" " Box Support.....	0 15		Wheel Hub.....	2 00

DIRECTIONS FOR USING GRAIN DRILL.

1. FOR WHEAT, RYE, BUCKWHEAT, &c.—Slide the bottom to the right end of the Grain Box, opening the small runs, and place the Shifter Block at the left end of the Grain Bottom.
2. FOR BARLEY, OATS, CORN, BEANS, &c.—Slide the bottom to the left end of Grain Box, opening the large runs.
3. PLACE THE GRAIN WHEEL on the end of the square shaft, when the following quantities per acre will be sown:

	WHEAT.	BUCK- WHEAT.	OATS.	BARLEY.	PEAS.	BEANS.	CORN.
	PECKS.	PECKS.	PECKS.	PECKS.	PECKS.	PECKS.	PECKS.
Wheel No. 4.....	4	4	8	10	8	8	8
" 5.....	5	5	10	12	10	10	10
" 6.....	6	6	12	14	12	12	12
" 7.....	7	7	14	16	14	14	14
" 8.....	8	8	16	18	16	16	16

4. TO DRILL CORN IN TWO ROWS, 4 FEET APART.—Use the large Runs and shut off the hoppers you desire with the sheet iron feedcovers, when the Drill will sow as follows: No. 4, 7 quarts; No. 5, 10 quarts; No. 8, 18 quarts. THE ABOVE QUANTITIES are got by using the intermediate wheel, No. 64, on the Grain Lever, with the larger wheel next the Lever.