

ground in good shape, beans must not be buried in more than *two* inches of earth in light soils and *one* inch in compact soils.

Drill seeding with a planter.—In field cultivation, the sowing of beans must necessarily be made with a planter, if prompt and economical results are to be expected.

The various kinds of planters most in use for beans are:

10.—The hand seeder, Planet Jr No. 20, for beans and peas, which is very inexpensive and which, by the fact, is particularly intended for those who cannot afford to purchase a costly seeder for the planting of a rather small area (Fig. 1).

20.—The Massey-Harris horse planter, which renders efficient services and is particularly recommended for planting a ground of ordinary dimensions (Fig. 2).

30.—The Cockshutt two-horse planter, one of the most recommendable for sowing large areas (Fig. 3)

40.—Finally, the ordinary grain drills, and particularly the eleven tube one is considered as one of the most speedy for bean planting. Although it does not usually distribute the seeds in as a regular way as the two former seeders, it however has upon them the advantage of planting several rows at the same time. Thus the one with 11 tubes, 7 inch distant, will plant three rows at one time, 28 inches apart. The only thing to do will be to shut off the feeding tubes with the exception of the *second*, the *sixth* and the *tenth*, and to have the wheel follow the same furrow when coming back, so as to always keep the same distance between all rows (2).

Hand seeding.—When no planter is available, the seeding of a small area may be done by hand. Seeds are then distributed, distant as previously mentioned, in furrows drawn out by means of a marker, and afterwards buried with the back of a rake.

Rolling

The rolling not only has the effect of breaking, hardening and levelling the surface of the ground, but still has the moisture come to the top and places the seed in close contact with the particles of earth.

We shall consequently run the roller on the ground immediately after it

(1) The two latter seeders are equipped with fertilizer distributors and may be used for planting corn, beans or peas.

(2) This regular space between the rows would be very hard to obtain with a nine tube drill; for it being given that they would be 7 inches apart and that they would all be closed, except the 1st, 5th and 9th, we could not have the wheel come back in the same furrow, without reducing by one half the space between the outer rows planted in a contrary way. To remedy this, a marker would have to be attached to the drill, and this is just why the 11 tube machine must be given preference.