CULTIVATION OF ROOT CROPS.

The object of cultivation is fourfold: (1) To destroy and prevent the growth of noxious weeds. (2) To develop various degrees of openness of texture and uniformity of soil conditions suitable to plant growth. (3) To modify the movement of soil moisture and soil air. (4) To change soil conditions so as to make it either warmer or colder.

Trequisites to success is the early sowing of clean plump seed, of suitable varieties, in a seedbed that is well prepared as regards drainage, fertility and tilth. By starting the crop vigorously it is enabled to hold its own to the end with the minimum growth and seeding of weeds. However, in spite of the best of care there will always be weeds demanding some extra attention. In cultivated crops this can be given the season through, and espe-



hay or grazed, as pointed out in the hay or grazed, as pointed out in the plan for the destruction of the pest, its rootstock reserve rapidly diminish-es, and it soon falls down'in yield of forage. If old meadows are replowed every two or three years, however, the grass gets re-established and the yield can be kent up. But I have never seen grass gets re-established and the yield can be kept up. But I have never seen many quack grass stands which the owner would not willingly trade for some other kind of growth. It is a pest to be swatted root and branch.

Profitable Methods of Handling Manure.

Manure fs worth money, varying in amount depending upon the method of handling and upon the crops to which it is applied. If the best methods can be followed at no greater expense than the poor methods, the difference in profits represents the return upon intelligence. It is one of the objects



COWS AND CRAB APPLES

Perhaps many have noticed that cattle. The correlation between cows and crab apples seems to be very close, for it is in the favorite loafing places of cattle—near the pasture gate, for example—that the thickets of little example—that the thickets of ittee trees are found to be most abundant.

The reason for this peculiar situation lies in the apparent necessity for the intervention of cattle in the planting of the trees. A little observation of the seedlings will show that almost without expention they hear traces of

