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Farm and Home.

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All Around the Farm.

BAPE AS A FORAGE CROP.

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der average conditions a yield of from 10 to 20 tons or more may be expected. The land louds be well pulvedized by harrowing before the seed is sown. When the land needs fertillzing, barnyard manure may be applied before plowing in the autumn, or if the land is plowed twice, the manure may be spread on during the winter or early spring before the last plowing. Commercial fertillzers may be applied by harrowing in at the time that the land is being pulverized previous to seeding. A deep, mellow seed bed, free from noxious weeds, should be made. Throughout the northern states seeding may take place from 'une to late July. In the south the set a may be sown in Sept or early Oct. Under favorable conditions use 2 to 3 lbs seed pa. Plant in drills far enough apart to allow cultivation. For planting small fields any of the common garden drills will be found guite satisfactory, but for large, it is dis a grain drill with some of the feed hoppers closed may be used. When the ground is clean and in proper condition otherwise, good results may be obtained by using the grain drill with all feed hoppers open, and giving no after cultivation. Some plant in wide drills and give sufficient shallow cultivation to keep the soil in good physical condition and destroy weeds. Good crops of rape may be obtained from broadcast seeding, but where there is danger of the surface soil becoming very dry while seed is germinating drilling will give much better results.

Fine rape may often be grown on land that has already produced a crop of some of the early maturing cereals, such as rye, oats or barley. As soon as strain is removed, plow or disk at once and seed to rape. Fleld peas and other early maturing forage crops, or rye owinter oats that have been pastured off in spring may also be followed by rape with profitable ready for use in sor of weeks from time of seeding. The general practice is to use it as a soling condition of the spring with some grain crop such as wheat, allowing the former to take possession of the country is to so

RAPE AS A FORAGE CROP.

THROUGHOUT a large portion of the United States farmers and stock raisers could advantage-ously grow more of succulent forage crops for feeding stock during summer and autumn, when the supply of grasses and clovers is often limited. Such crops may usually be grown on land that has aiready produced an early maturing crop of some sort, such as oats, rye or winter wheat. One of the best of these succulent crops is rape. Much like the Swedish turnip or rutabaga in appearance, the root of rape is more like that of cabbage. The leaves are large and smooth and under ordinary conditions the plant reaches a hight of from 1½ to 4 ft. and the strong-growing roots penetrate the soil to a considerable depth.

Rape is best adapted to rather cool, moist climates, such as prevail in portions of Canada and themorthern states, it can be successfully grown as a forage crop in many of the warmer and drier sections. In favornble seasons or with a small amount of irrigation, excellent crops of rape are grown in but light sandy soils and ntiff clays, such soils being usually dokelient in vegetains matter. In general a soil that will produce good crops of turnip, enablage, wheat and cern will be sultaine for rape. Rape is a grays feeler and draws quite heavily on the nitrogen as well as the mineral constituents of the soil and should be used in rotation with trops that feed largely on other, elements of plant food. At the N H expers state the Dwarf Victoria yelded 50 tons green fodder per acre, and yields of 25 to 36 tons are reported from S D. Un-

A NEW STYLE CULTIVATOR

One of the enthusiastic gardeners of southern N J is Rodolfus Bingham of Camden Co. Mr Bingham makes a specialty in the cultivation of fruits. The



THE MELLOWER AT WORK

cuts show his mellower for working among strawberries both in operation in the field and an under view of it. Mr Bingham claims that his mellower loosens the soil to any desired depth, and thoroughly mellowsit without turning down the surface of richer soil. Of course the subsoil is undisturbed. The perfectly pointed, sharp cutting, steel plow cuts the soil in slices, and with its wings and the teeth of the wheels which carry it, breaks up lumps and lods and prepares the soil far better with one operation than the ordinary methods of plowing and harrowing. The teeth of the wheels also catch coarse manure and cuts show his mellower for working



The frame is so arranged that a. bar with markers may be put on, or drills for seeds or fertillizers, or a barrel of water and boy to drop and water plants, and rollers to press the soil to the roots. The machine in general usefulness is in this respect very much in its work like the transplanters which plant, fertillize and water plants all in one operation. By lifting the plows to shallow lines it excels the ordinary cultivators in that it cuts instead of scratching or scraping, and will work closer to small plants without covering or disturbing them. This implement works three rows and cuts the runners by making one 16 in space for the horse, then two 10 in wide. This allows 43,560 strawberry plants to the nere.

SAVE THE POTATO CROP.

No farmer can afford the loss of one-No farmer can afford the loss of one-third of his erop. Yet potato growers who do not use bordeaux mixture often lose more than this. The results of the 8 yrs' trial at the Vt exper sta show average yields of 296 bu p a where sprayed and 173 bu where not sprayed. The practice of the Vt exper sta is to use paris green for beetles during June. During July and August two or three applications are made of bordeaux-paris green mixture. This

mixture consists of 6 lbs copper sulphate, 4 lbs lime, ½ lb paris green and 40 or 50 gais water. Slake the lime and dilute with about one-half the water; dissolve the sulphate in the other half, then pour this vitriol solution into the lime water, meanwhile stirring thoroughly. Add the paris green and the mixture is ready for use.

Spraying of early potntoes is begun about July 1 and of later potatoes about July 15. A second application is made two or three weeks after the first. A third application follows two or three weeks after the scoond if needed. Some years this third application does little good; other years it saves the crop from late blight or rot.

The object is to cover the upper surface of the leaves with a thin layer of the mixture. There is no danger to the vines from using too much and most men make the mistake of applying too little. In a small field the mixture may be put on with a sprinkling can. For an acre or more a spray pump is desirable. There are many of these on the market. The simplest, and therefore best, way to begin is to have a good, strong pump mounted on a barrel which can be carried through the field in either a common one-horse wagon, or better, on a special two-wheeled cart. One of two hose with nozzles, run from this pump, can be directed by one or two men riding, or better, walking. In the latter case, each hose should be 10 ft or more in length.

A good spraying out: it is largely homemade. and each man will soon modify the details of this method to more this own conditions. Spray promptily and thoroughly or not at all.

A SIMPLE HAY RACK.

The hay rack illustrated herewith is for use on a common high farm wagon. Side sills are two pieces 2x4 in by H
ft; for a low wagon 2x6 in is better.



A HOMEMADE HAT RACK.

To these attach four strips 1½x3 in on bottom edge by means of ½ in bolts running through sills and also through the semi-circular arms 2½x3 in. Two betom edge by means of ½ in bolis running through sills and also through the semi-circular arms 2½x3 in. Two pieces of 1x4 are laid on both ends of arms and bolted on so that the hind wheels can operate between and up through them. To make an arch, a or h, over hind whels, three pieces of wood or iron bent in form of a half circle, or two strips cut with an elongated circle and bolted to the 1x4 in strips and covered with short pieces of thin boards, keep hay or grain from coming in contact with wheels. The front guard or standard should be fastened to side sills by means of a full length rod and just back of front arm and attached so as to be raised up or down. The stakus at rear end fastened in same manner. This renders it more convenient to store away under some low shed when not in use.—[12. Logan, Branch Co, Mich.]

The Horse Hay Fork will work casier if knives are put on the points. Without them it is almost impossible to drive the fork into a load of green to drive the fork into a load of green hay My blacksmith took two old moving machine sections, cut off the two upper corners, drilled a hole between them, hammered out the points of the fork so as to admit of making a hole in them and riveted the knives on. Have used a knife pointed fork two seasons and it cuts its way into a load of hay with ease.—[E. E.

In the Work of Haying modern ma-chinery is making rapid changes and chinery is making rapid changes and the more or less crude and wasteful proces a are giving place to improved methods. Much nutritious and digestible matter is lost from hay that lies exposed to the sun too long. Best results follow when grass is air cured rather than sun bleached, and for properly turning hay for curing a side delivery rake, made by the Keystone Manufacturing Co of Sterling. Ill, fills all requirements. Besides the side delivery rake the Keystone Co manufacture one of the best hay loaders on the market. The catalog is free to all who send for it.

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