Growing of Alfalfa-"The Queen of Crops"

(Continued from Last Week.) A LFALFA seed should be inoculated by means of artificial culture either obtained from the Government or from some firm who propagate it, and it costs about \$2 per acre for the inoculating fluid. Directions always go with the preparation and should be carefully followed. Another means of inoculation is obtained from dirt from a well-established alfalfa field. About 300 to 500 pounds per acre of this should applied by hand late in the afterapplied by hand late in the afternoon or on a cloudy day, and the soil,
after it has been taken from the alfaifa field, should be kept a little
moist and not be allowed to dry by
the direct rays of the sun. The bacteria of inoculation for alfaifa are
very sensitive, and the sunlight kills them. Another means of inoculation for alfalfa is obtained from dirt under the roots of sweet clover, and this is usually along the public roads. Sweet clever is so intimately con-nected with alfalfa that the nodules ted with alfaira that the list roots furnish inoculation for its roots furnish inoculation for the list roots. The alfalfa as no other plant does. The inoculation should be applied immediately before the seeding and lightly harrowed in. If the land has been seeded with a machine, it will need no other treatment, but if it has been applied by hand or by wheelbarrow seeder, then the surface of the field should be very lightly har-rowed and never rolled after seeding.

Treatment of Meadows, Many fields of alfalfa have been destroyed by weeds and grass taking them after a few years of good prothem after a few years of good production. Binegrass is one of the worst enemies of alfalfa, and this and all other weeds can be easily eradicated by means of a good springtooth harrow run crossways over the field. Some will doubtless say that the harrow will tear alfalfa all to pieces, but I have never seen a single crown of alfalfa destroyed by a spring-tooth harrow. You can literally tear the field all to pieces by harrowing both ways, yet the alfalfa is not disturbed, and it grows all the better for the working and the weeds is not disturbed, and it grows all the better for the working and the weeds and grass are killed. A disc set slightly slanting is sometimes used to cultivate an alfalfa field. If a farmer can not get a spring-tooth harrow, then I would recommend a disc harrow run one way and a fine-tooth harrow run across the field. tooth harrow run across the field.

I would recommend by all means to keep all animals off the alfalfa meadow. The less tramping it gets, the better is grows. However, many men desire to pasture alfalfa and some have done so very successfully both with sheep and hogs, and in the West and South alfalfa meadows are grazed during the Winter with horses and cattle,

Improving the Soil.

As doubtless many of you know that after an alfalfa field which has stood for several years is plowed and planted to other crops, the succeeding crops on this are far better than on other land where alfalfa has not grown. The reason for this is, be-cause the lime and phosphate have been put into the soil, in addition to nitrogen, which alfalfa breathes in from the air and deposits through its roots by means of the little nodules of bacteria growing on the roots of alfalfa and other legumes, and it is a wise provision of Nature that these plants breathe in nitrogen and deposit it into the soil through these germinating cells. The more nodules the roots of any legumes have, the richer the land becomes.

You may ask just here, how alfalfa will fit into the crop rotation of our agriculture? Clover stands for one or two years, then the land is turned under and fits in splendidly in our rotation. Alfalfa will grow for a great many more years, but it can be turned under in two years with even more benefit than red clover imparts, but if a man has a well established alfalfa field, he is not apt to sacrifice it in two years; hence the rotation can be made longer. I have heard some men say that they did not want alfalfa on the farm, because it was impossible to kill it, and ordinarily speaking I will say that you must have a sharp plow to cut the roots of alfalfa, but when they are cut off the plant dies and all its big roots, besides adding nitrogen to the soil, add humus also and make the land porous for several feet deep. No other plant does this. When planting alfalfa one must remember that we

Alfalfa Hay.

It is needless for me to tell you of run from three cuttings of one ton the value of this great clover for hay, per ton to four cuttings of eight tons It is as rich as wheat bran and it per season. These variations indifurnishes the best hay for balancingcate to me the difference in preparing

Effective February 1

Reduction No. 3 On Goodyear Tires

Making Total Reductions 45 Per Cent in Two Years To Give Always the Most for the Money

We are glad again-for the third time in two years—to announce a big reduction on Goodyear tires, effective February 1st.

Goodyear policy on price is to give the utmost in a tire at the lowest possible profit. Our reductions are made to that end, without ever reducing the quality.

That always means, with our matchless output, more for the money than any other maker can give.

As rubber came down our prices came down. As our output multiplied, reducing factory cost, our prices came down with it. In two years our reductions-including the present-have totaled 45 per cent.

Last year we increased our output 26.6 per cent. A few days ago the embargo on rubber was modified so that supplies seem assured. The market price for rubber seems for a time established. Fabric costs less than last year. So, under our minimum profit policy. we announce this new reduction.

Only Fair Basis

We consider profit margin on a tire the only fair price basis. We keep that margin just as low as our line allows.

While we do that, Goodyear tires will always undersell any tires that compare with them. That is because we have the largest output. We have a new factory, modernly equipped. And we have world-wide facilities for buying rubber, of our extra grade, at the lowest market price.

For a long, long time most tires have sold much above Goodyear prices. Some have sold one-third higher. A few have sold lower, as some always will, because of less rubber, less quality. But we can and do, under all conditions, give more for the money than any rival tire can offer.

The Best We Know

Goodyear Fortified Tires offer the best we know. They are built to give you the lowest cost per mile. They minimize tire trouble in five costly ways employed by no other maker. And they are always the same, regardless of price reductions.

Most tires will always sell higher, because of smaller output. Some tires will always sell lower because of lower standards. But we promise you that none will ever give better than Goodyear value.

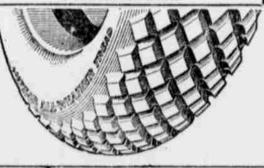
This policy has made Goodyears the largest-selling tires in the world. It will make them more so as more men find them out.

Ask your Goodyear dealer for our new price on the size you buy.

THE GOODYEAR TIRE & RUBBER CO. Akron, Ohio

Makers of Goodyear Tire Saver Accessories and Goodyear Wing Carriage Tires and Other Types





worth \$25 per ton, then you have a done without affecting the stand.

Take, for instance, a field that is dividends for years to come, because will in time enter into all of our producing six tons of alfalfa per year, the lime and phosphates that you put feeding rations, and is doing so now which is worth \$20, this makes \$120 there to grow alfalfa and the nitrogen

in milk and butter as he did when feeding the other rations. Thus you see he avoided the necessity of purchasing any concentrated form of protein. Alfalfa hay is the best hay for all livestock. It is good for work horses and driving horses, although should not be given all they want to eat, but it should be supplemented with some timothy. For milk cows there is no better hay in the world, and also for beef cattle. For world, and also for beet cattle. For hogs it furnishes a good pasture, providing you wish to pasture your meadows. Alfalfa hay can be fed, chopped short, with grain in the Winter, and it makes an ideal ration. For poultry alfalfa furnishes an excellent feed. cellent feed.

Yield of Alfalfa.

I have reports from alfalfa growers from over the State of Kentucky, are entering into a plan of permanent hundreds of them, and it is intensely improvement of our soils. interesting to note the variation in the yield of this great crop. It may

rations for all live stock. If any one the land for alfalfa. In Jefferson takes hard work, intelligent applica-can imagine a field growing six to County I have seen eight tons per tion and its costs some money, too, eight tons of wheat bran per acre, acre taken in four cuttings and it is but it means an investment safer than

feeding rations, and is doing so now which is worth \$20, this makes \$120 there to grow alfalfa and the nitrogen with a great many of our feeders.

I know one dairy farmer who raised eight tons per acre of alfalfa, and previous to sowing it he fed ensilage and cottonseed meal and clover hay, crops. A good crop of wheat is 30 deep, rich loam and a plenty of manand then one day he decided that it bushels to the acre, at \$1 per bushel, ure. It reminds me of the little was readers to have correctly as a policy of the pay and the pay and the pay income is \$30. A good crop verse written by an Ohio Experiment. was useless to buy concentrates at all the net income is \$30. A good crop and he fed ensilage and alfalfa hay of corn is 75 bushels per acre at 75c and obtained exactly the same result per bushel, net income \$56.25 per acre. A good crop of clover is two tons per acre, say \$17 per ton, \$34 in-come. A good crop of timothy is about the same amount. So you see alfalfa is one of the best cash crops that a farmer could raise. But it should never be turned into cash, but fed on the place, by all means. A farmer is committing land suicide if he ever sells clover or alfalfa. He should feed it and market it to his cattle and the residue will go back to the land in the form of manure.

What place has alfalfa in our permanent agriculture? I claim it should have the very first place, elements of lime and phophosphate must be supplied in order to grow alfalfa successfully, but in doing so we are putting into the soil elements that all crops require. Therefore, in growing a field of alfalfa we are fit-ting the land for all or any following crop, because the alfalfa adds the

It means permanent improvement of our soil, putting back the natural elements that man has ruthlessly and selfishly robbed our lands of. Alfalfa is not a lazy man's crop. It process factories.

ure. It reminds me of the little verse written by an Ohio Experiment Station worker:

Lime and lime without manure Makes the farm and farmer poor,

But lime, manure and vigorous clover Make the old farm rich all over. In growing alfalfa we are inculcating more intelligence in ourselves, making better farmers, better men and boys,

Denver Eats Butter.

One creamery in Denver uses 10,-000 gallons of cream daily. More than half or this amount is shipped in from Kansas, Nebraska and other adjoining states. Sixty-five cents a gailon is paid. So this one concern alone pays more than \$1,000,000 annually for cream from outside of Colorado. This creamery manufactures 25,000 pounds of butter daily. Colorado. This creamery manufac-tures 25,000 pounds of butter daily, which at the retail price of 35 cents amounts to \$8750 a day or more than \$2,500,000 a year. This means that Denver folks eat some butter. Of course the entire amount is not consumed in Denver, but then it must be remembered that these figures apply to but one creamery and there are a dozen others right in the town, to say nothing of the bull butter and