Agric ture. SECOND CROP SH POTATOES.

Information Regarding a Crop That Should be More Generally Grown in North Caro-

The last issue of The Progressive Farmer contained an inquiry regarding this subject. From Bulletin 85 of the N. C. Experiment Station, we get the following items which are probably of unusual value from the fact that they are boiled down experiences of many growers who reported to the Station:

"Twenty-five years ago it was a common practice, everywhere south of Mason and Dixon's line, to plant a late crop of Irish potatoes in July, from seed kept over from the previous year. These, even when brought from the North, were inevitably shriveled from sprouting and with but weak vitality, and the late potato crop was always the most uncertain of crops, from the difficulty in getting a stand, and from the weakened tubers used making a feeble growth.

"Since the war the great development of vegetable culture in tag tatoes from seed brought from the North, led to the discovery that the second crop could be better grown from tubers of the same season. *

"No matter how thoroughly the land was manured for the early crop it will be best to use a liberal supply of fertilizer for the late one. If put upon a pea stubble there will be no need for further purchase of nitrogen, as was essential with the early crop; but it will always pay to use six hundred pounds of acid phosphate and two hundred pounds of kainit broadcast for this crop.

"In planting lay off the furrows three feet apart, run twice or three times in a furrow and clean it out with a shovel if not uniformly deep and regular. Prepare, plant and cover one row at a time while the soil is fresh. Plant at the bottom of the deep furrow, but cover very lightly. The covering we do with a hoe, and let the man who covers tramp over the row after covering, so as to press the soil tightly to the seed. When planting on a large scale, a machine similar to one used in some sections for covering corn may be used. This consists of an plow beam and handles, with a crossbar in front, to which are attached two spike teeth a foot apart, and behind these a narrow roller. The two spikes will pull in plenty of soil from the sides of the trenth, and the roller will compact it. Such a coverer can easily be made at home. Potatoes, properly sprouted, planted in this way will all be certain to grow, and a good stand is easy to get. As the potatoes grow the soil is pulled in around them by running the cultivator through until, finally, the trench is level. Do all the culture with the ordinary one-horse cultivator, and do not hill up. The potatoes will then form in the deep bed of mellow soil, the deep furrow will tend to retain moisture, and the crop will be larger than if grown in hills or ridges.

"The important points to observe, here in North Carolina, we think,

"1st. Bed the seed in the soil until planting time. This gets rid of those too immature to grow and which, if planted, would leave gaps in the

"2d. Plant about second week in August, if possible, and use only those potatoes that are sprouted.

over very lightly, and pack the soil 10 the seed.

"4th. We have since found that they sprout quicker if a small piece is cut off of dotatoes used for plant-

plants as they grow, and cultivate ing the fertilizer with the soil and high.

the crop perfectly flat."

at intensive meethods of potato rais- or five inches we drive the horse ing worth close attention.

South, particularly of early Irish po- a year, there are many thousands fully ripe potatoes we get are care of the North to supply the consum- two or three weeks, after which we ing crop either of the first or second nure, giving the same cultivation. and rarely ever that we could not It is but little trouble to avoid be-

shipped North, bringing a fair profit, sure death to them, using a tableand if not they can be shipped South spoonful of Paris green to 21/2 or 3 in the latter part of the summer, gallons of water [1 ounce to 121/2 gal bringing a fair price. The second lons of water is an accurate safe procrop is always a sure money crop, portion, and he who guesses may burn cents per bushel for seed, being far ler will do. It is necessary that more valuable than Northern-grown great care should be taken to predry season, with the prospect for 300 | The cultivation required to raise two or 400 bushels in a good season. As the crops of potatoes with the amount of zation, together with the principles with a chance for a heavy crop of ton will be to us. If this is the case But first get in your mind what you weather. of cultivation as pertaining to soil clover to follow. moisture (laid down and fully explained at the different farmers' ineminent scientist Andrew M. Soule) need have no fears as to the result tight roof to keep out water, and to 5 or 6 cents per pound, or perhaps On a farm thus arranged, besides of raising Irish potatoes.

tent upon rapid growth and quick maturity it will not do to economize in the use of fertilizer. We never use less than a ton of high-grade Correspondence of The Progressive Farmer. fertilizer per acre, together with not using a turning plow we can plow Convention recently. preventing the seed potatoes from So much for our Station bulletin. coming in contact with the fertilizer thee report of Mr. W. N. Rudd, a fertilizer is used. We then drop the chard occasionally to rye; sow clover dreamed.

directly on the ridge thus formed by Fifteen or twenty tons of stable laying off, thus traversing the ridge manure per acre! When some of and covering the seed potatoes 5 or our farmers begin to appreciate this 7 inches deep. As soon after a rain statement they will standaghast. A as the ground is dry enough to work ton of stable manure is about one we cultivate the ground lengthwise good two-horse load for average sized and crosswise alternately of the rows horses. The loads run about two to with a Hallock Success Weeder. We the cord, which would be 71/2 to 10 cultivate after every rain until the cords. A cord is 128 cubic feet. But potatoes are up, by which time the many farmers are used to apply ma- ridges are worked nearly or quite nure by the bushel, which approxi- level, then we give them at least one mates to one and a fourth cubic feet. good deep cultivation as close to the Since there are 128 cubic feet in a plants as we can without disturbing cord, there must be in a cord then the roots. We also keep up the surabout 410 bushels and in 7.5 to 10 face cultivation with weeder till pocords 3,050 to 4,100 bushels of ma- tatoes are up three inches high. We nure per acre. Adding a ton of high do not cultivate more than 11/2 inches grade commercial manure the cost deep. We do not use a hoe only to is from \$35 to \$50 per acre. But clean out weeds. By using the there is a large residuum of manurial | weeder the weeds seldom get a start elements which succeeding crops can sufficient to be much of a hindrance. We use the earliest variety we can Mr. Rudd's article is as follows: get, in order to get them ripened Probably there is no vegetable early, for in this lies one of the now in use that is used so extensive- secrets of raising the second crop. ly as the Irish potato. And notwith- Experience has shown conclusively standing the fact that the crop is that a full sized ripe potato will easily raised and the climate of Mid- sprout and come up much quicker die Tennessee will admit two crops than a small green one. The first of bushels of potatoes bought and fully saved for seed for the second brought here from different sections crop, and laid away in the shade for ers of this country. With our expectut and let them dry 24 hours and rience for the last seven years there plant just the same as the first, on has not been a season that has been the same ground without the addiso dry that we could not raise a pay- tion of any more fertilizer or ma-

raise a fair crop of both first and ing troubled with bugs. As Paris green applied as soon as the bugs Oftentimes the first crop can be make their appearance is almost rarely ever bringing less than a dol- the tops.—Ed.] In the absence of a lar and sometimes a dollar and fifty sprayer, a common 10-quart sprinkseed. Although we do not raise vent scabby potatoes; corrosive subpotatoes on a large scale, yet we limate, dissolving one cunce in one rarely ever receive less than \$50 and gallon of hot water for 10 hours sometimes \$100 clear profit from an after which add 8 gallons of water, acre of ground, rarely ever yielding then soak the seed two hours, after less than 150 to 200 bus. per acre in a which let them dry before planting. Irish potato is largely composed of fertility used as herein described water one who understands and puts leaves the land in a. most excellent in practice the principles of fertili- condition for winter oats or wheat

snow. A wet or cold hen will not As success depends to a great exlay many eggs.-F. M. Munger.

CLEVELAND NOTES

Everybody seems to be emphasiz-

CLODHOPPER.

Cleveland Co., N. C.

formation. He has given us a peep wings of the shovel plow some four does not hurt the trees in any way. stimulate enterprise and bring out it is but a trifle over 3 cents.

Ga., a Progressive Farmer Correspondent. at the Georgia Cotton Growers' Convention. Mr. Chairman and Gentlemen :-This is neither a trust nor an antitrust convention. We have come here to perfect, if possible, an organization by whose aid we may be able to obtain a just return for our labor in the price of our cotton. I am rejoiced to see the business men and the bankers interested in this matter. It makes us feel that we are all akin, and that we are mutually dependent one on the other, and I am satisfied that nothing but good can come from organization of

this kind. The economical problems of today are very different from any we have yet been called upon to meet. The modern trust has appeared in the fore-ground, presenting an almost impregnable front. The newspapers and the politicians are full of suggestions for anti-trust legislation, all of which has apparently no effect, and the trusts grow more powerful every day. Different views exist regarding these trusts, some people believing them to be a good thing, while others think them an unmitigated evil. I do not hold with either of these views, but believe trusts to be both an advantage and a disadvantage. An advantage because they are able to profitably conduct a business and give steady employment to labor which would, if subject to competition, be unstable and unprofitable. A disadvantage, because their monopoly of any given product gives them an undue advantage over those individuals and those enterprises which cannot, or do not, combine; and this, friends, is the fix we farmers are in today, and this is one of the main reasons why we must

A short crop of cotton, together with an increased demand, has raised the price. The trust, acting under a protective tariff, and seeing the farmer about to make a little something, raised the price of nearly everything he had to buy, and by this means transferred the money from his pocket to theirs.

Every time we go to town we find the price on something has ad-To be profitable hens must have rush it on the market in the promisacre for garden. Then get your tight roofs. stitutes this last winter by that most good shelter at all times, both sum- cuous fashion we have been accus- cows, set out the orchard, find the mer and winter, a building with a tomed to, and the price drops back best place for potatoes, etc. tight sides to keep out wind and less, while everything else still re- plenty of all these things for your mains where it is. It will be no use own use, which few people have, you to cry out for anti-trust legislation; should sell about as follows: the only thing to do is to meet com- From orchard \$ 50

mand what is yours. Trusts have come to stay. They From sweet potatoes..... in the winter, sometime before stock to use the by-products of the competition. We have got to look From hogs..... spring work begins; then as the farm and convert them into money. at things as they are, and then adopt From melons...... ground is dry enough to work we I notice that our very efficient Na- the most practical means of protect- Chichens and eggs..... the surface with a cutaway plow special stress on this in his address can stay at home and raise nearly some 4 or 5 inches deep. Then by before the East Tennessee Farmers' everything he needs, his wife can spin and weave as she used to do; he the ground deep, leaving the ground I notice you occasionally refer to can cut himself off from the world, well pulverized. Potatoes require a wide-tire metal wheels. I can say as it were, and live, but in this case most thorough preparation of the from experience that they are all he does the world very little good, soil as they will not do well in clods. right, I can haul over ground when or himself, either. Now, while I am and there is no crop that will rethe team can walk, and the wheels a firm believer in the raising of home spond more readily to good cultiva- will not cut down with any ordinary supplies, at the same time I like to perous people. tion. Heavy fertilization requires load. They pull heavier in right have a little money to spend for some far more thorough cultivation. As soft mud; as the wide tire has to of these countless conveniences and soon as the ground is prepared we make its own track. If all road luxuries which modern ingenuity "3d. Plant in a deep furrow, but lay off the ground about 28 inches wagons had wide tires that difficulty has prepared to facilitate the work wide with a large shovel plow with would be easily overcome. The low and increase the happiness of manwings drawing in the wings: this wide-tire wagon on the farm works kind. Here at the South, cotton is leaves a broad furrow. We then to perfection. In lots of work it our main money crop. With proper scatter the fertilizer in the furrow saves an extra man. I would not organization and management in well up on the sides of the furrow; take three times the price I paid for marketing and manufacturing this then follow with a horrow and mine, if I could get no other. I use crop at home, together with judicious "Gradually fill in the soil to the narrow calf tongue plow, thus mix- four-inch tires, 32 and 36 inches methods of production, I am convinced that the farmers of the South today, and those within reach of my voice, will live to see an era of pros-We now give an interesting experi- which is important when so much It is not a bad plan to seed the or- perity the like of which they never

money for investment; this in turn creates a demand for labor, gives people more money to spend, and duce outside of cotton, all of which is very good. But here is the point winter dairying. I wish to make: With all this money trust, if you will, is in a position to his plans accordingly. demand a little more than their just share, and compel those who are engaged in the unorganized enterprises to pay for it, and not only this but improperly cured and stored in the accept for their produce less than summer. they would otherwise be able to obtain. This will result in the enrich- made to order during having, a much ment of one class and the pauperiz- better quality of fodder than the ing of another class. Every enter- average would result. With the most prise, every business, and every class favorable weather conditions, some of labor should therefore organize. farmers would never have good hay. We must follow the signs of the They harvest it too expeditiously, times, we must organize in self-de- and then pack the imperfectly-cured fense, for then, and only then, can grass into tight barns, where the exwe demand a just price of our cot- cess moisture it contains results ton, and it is to the interest of every later in musty or "smoky" hay. banker and business man in the South to help us do it.

A FIFTY-ACRE FARM.

A writer gives some excellent advice in an exchange as to how to get | modern machinery the ease and rapthe best results from a 50-acre farm.

Here is a very good plan to run a 50-acre farm; 150 fruit trees, peaches, that I wish to speak about. apples, pears, etc.; one-half to 1 acre garden, made very rich, well worked 4 milch cows; 1 acre sweet potatoes; one-half acre Irish potatoes; one-half | few hours sun in the swath, cure it acre of grapes; 6 to 10 hogs; one-half | in cocks capped if necessary against acre sorghum planted in rows for possibility of rain. The idea is to hogs; 2 to 3 acres sorghum, sowed get the moisture pretty well out of broadcast for hay; one-half to 1 acre | the hay before it has been stored watermelons and muskmelons; chick- away in bulk, and yet not let it beens plenty and some to sell; 4 acres come dry and bleached by too much oats; 5 acres Bermuda grass; 20 sun acres corn; 15 acres cotton.

would furnish a first-class living for through, being simply the evaporathe owner and fumily, and the sur- tion of excess moisture, should take plus would be more than if nearly place under conditions in which air the whole farm was planted in cot- can freely circulate through it. By

getting interest.

vanced, until we begin to wonder range their farm as suggested all at pay to thoroughly protect the top what good the increased price of cot- once; it may take two or three years. and sides against inclemency of the now, what will we think when we want and then work to it. Com- Baloon-framed sheds are useful

From cows—butter, yearlings... 40

some of all of them for your family. If the Southern people will diversify their crops somewhat after the plan laid down here and keep out of debt, this will soon be a very pros-

Of course some should vary from what is mentioned, according to kind of land, market, etc. Some might raise sheep or goats.

I do not know much about farming in the North, but it seems to me. that they might diversify crops to advantage instead of all wheat, as in some sections, or all corn, as is done in parts of Kansas.

The grape crop throughout the State is said to be very good.

It is stated by Department of Agriculture experts that seventy years ago it required on an average, three prominent Tennessee grower, writ- seed potatoes (which have been cut in the spring, cut the rye while Now, gentlemen, higher prices are hours' labor to produce one bushel of ten for the Tennessee Agriculturist. and spread to dry 24 hours before green and plow the clover down the going to rule in most things you wheat; today the average is but ten Mr. Rudd's article is very interest- planting) from 14 to 16 inches apart following spring. This saves much have to buy. They are the natural minutes. In 1830 the cost of such ing and contains a great deal of in- in the row, then by spreading the work in summer cultivation and result of business activity; they labor was, nearly 18 cents; at present

HARVESTING THE HAY CROP

Correspondence of The Progressive Farmer. The proper harvesting and presermakes a larger market for farm pro- vation of the hay crop has a great influence on dairying, especially

A wise, and consequently successfloating around, you may not notice ful dairyman, is always looking it, but the organized industry, or ahead a year or more, and making

> He knows that because hay as a winter food for cows is tabooed by some, is due to the reason that it is

If we could only have weather

The bulk of the hay crop in the United States is harvested according to latitude prior to the middle of July, and it has long been considered as a rushing season of work. With idity with which the crop can be handled, tempts the farmer to imperfect curing, and this is a point

Do not put damp hay into large mows or stacks. If the grass contains an admixture of clover, after a

The so-called "sweating" process A farm managed on this plan that freshly cured hay passes this plan fresh sweet hay can be fed I know a man who has raised about out to the cows in winter, resulting what I have suggested, and one who in an increased milk flow and augis well acquainted with him, says he mented dairy profits. The principal has \$10,000 loaned out on interest. reason that hay has fallen into such Instead of being in debt and paying disrepute as feed for dairy cows, is interest, he is lending money and because there is so much poor hay

Of course a great many cannot ar- Where hay is stacked it will always

make another big crop of cotton, mence by thoroughly manuring one for this purpose, but they must have

GEORGE E. NEWELL.

TOBACCO IN THE PHILIPPINES

Tobacco growing readers of The Progressive Farmer in North Carolina and Virginia May be interested in the following article from Tobacco

Tobacco is probably the best known yroduct exported from the Philippines, the Manilla wrapper being known the world over. Three-fourths of all the tobacco grown in the Philippines comes from the provinces of Isabella and Cogaun, on the island of Luzon, and the best grade leaf also comes from these two provinces. Besides this money you have raised North and South Hocos, Abra and Union province also grow tobacco. The islands of Cebu, Negros and Panay also produce some tobacco, but neither in quantity nor quality does it approach Luzon.

The tobacco islands in the provinces of Isabella and Oayugau, where the best grades are raised, are along the Cagauan and other rivers in these provinces. The soil is fairly heavy, limy and very rich in decomposed vegetable matter. The rivers of these districts overflow their banks every rainy season, and leave on the lands a deposit of mud and vegetable matter, often 8 to 10 inches deep and of wonderful richness. There is not an ounce of fertilizer. either commercial or barnyard, used on the tobacco plantations, and many of them have had the same crop every year for 40 or 50 years. The lowlands that are inundated every year grow the finest tobacco, yet the highlands also produce a very fine leaf, although lighter. This

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