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THE PROGRESSIVE FARMER IS the Official Organ of the North Carolina Farmers' State

# FARM NO ES

Bulletin No 36 of Delaware, treats of potash. It states that the German Gavernment, which has a monopoly of the potesh mines, keeps the price too high E foren years ago acid phosphare cost \$26 50 per ton; now is is only \$8 50. Fifteen years ago muriate of potash cost \$41 per too; now, notwitt stand ing the enormous decline in the price of farm crops, muriate of putash costs

\$40 per ton. The bulletin advises farmers to use lime and land plaster to render soluble the stores of unavailable potash al ready in the soil instead of paying such monopolistically high prices for potash salto.

From advance shees of Georgia Ex periment Station on tests of varieties of corn and cotton for 1899, we gather a few facts of interest to farmers: Of 25 variety s of cotton, Jackson Limbless gave smallest yield of seed cot on, 1914 pounds, ranked 231 in yield of lint cutton 24 h in yield of seed, and 231 in total value of lint and seed. Calpepp r's improved gave the highest total value of lint and seed per sore viz : \$33.87, the lowest of the 25 varieties you are a value of \$27.95 Of 11 varieties if cora, C ek 's P olific gave the high at yield 22 30 bushels par acre, the towest 10 40 and the average of all 17 70 bushe a.

The Livest Issue of the Chicago Dairy Product shows ex ra creamery butter to be 26 cents per pound and Eigin creamery 264 certs. Markets firmer

The following notes show something of what is being done in the creamery bu-ine-s in widely separated places There is also a growing activity in Georg a and other points in the South. A movement for a creamery is on foot at Soulby viile, Itl.

The Kendall, Wis, creamery com peny will haild a new creamery buildthe next year. The milkmen's association of Haver

establish a creamery.

Corners, M.ch., was about completed Stat s and E sewhere" at the MORP of last work.

ment Station Work" is now out. It is issued by the D-partment of Agricul ture as F ro ers' Bulle in No 103.

Tailve sut jects are discussed. The hrs. cal s attention to the danger from excessive irrigation and gives the rem edy. The second reats of the cro-s Pollination of plums, and the third of close root pruning of tree. These are Dalsy," Poisoning by Wild Cherry Lavas" Preserving Eggs in Water glass," "The Period of Gestation in Cowe," "The L ne Clam," "Silage for Herees and H ge," "Commercial But ler (b) then used in Connection with Pastrer zed Gream," and "The Stave Silo." The last m ntioned article says that the risky suo I the most practical and sheeseful silo which can be con Structed and giv a suggestions regard lighthe wastruction of such silos, to Rether such four illustrations showing sections of the site and general appear

aree of the completed structure. Copi a may b a brained on applica to the Steretary of Agriculture, in a mile on the secure it It is full of up to date a gestions and help

### FARM AFFAIRS.

THE PRESENT STATUS OF RICE CULTURE IN THE UNITED STATES AND ELSEWHERE

forrespondence of the Progressive Farmer.

Under the appropriation by Congress for the introduction of valuable seeds and plants from foreign countries the Secretary of Agriculture September 1, 1898, appointed Dr. S. A. Kuapp, of Louisiana an agricultural explorer, there is only 0 38 pounds of fat. with instructions to visit Japan, inves tigate the rices of that country, and commercial rice by demanding whole purchase a stock suited to meet the requirements of the American system em is marken in a marken in a semple copy and of rice cultivation. Rice in addition to its tropical or subtropical character, is ity slightly broken. a crop grown chiefly in wet lands where harvesting machines cannot be used. The crop must therefore be cut Japan has about 43 000,000 people who with a sickle, and the American hand laborer has been thrown into competi tion with the cheap labor of the Trop ics, a competition that has not proved about 287,200,000, and rice forms the profitable to the American.

the Lake Charles district of Louisiana was opened up by the construction of under cultivation so many centuries factory people are sated, stalled and a railroad. In 1884 enterprising settlers began the development of a new system of rice culture, by which as ing into the hundreds, have resulted, big as water buckets, with enough ma now perfected, the elevated and normally or periodically dry prairie lands | production of rice than any other coun are flooded by a system of pumps, canals, and levees, and when the rive is ab ut to mature the water is drained off, leaving the land dry enough for the use of reaping machines. Under this system the cost of harvesting, and has been greatly reduced and the in dustry has undergone a rapid develop

The Japanese rices average better than the American as far as their mill ing qualities are concerned, and for this reason it is desirable that Japanese rices be more extensively introduced into this country provided they main tain the same characteristics as in their native country.

The American methods of using ma chinery in the rice fields have resulted in a revolution in methods of cultivation. If, in addition, the same relative improvement can be secured in the rice itself, if varieties which yield from 80 to 90 per cent. of head rice in he flushed product can be successfully introduced. American rice grow ers will be able to command for their products prices as high as any in the markets of the world.

Dr. Knapp returned from Japan in than it is " the early spring of 1899 with ten tons of Kaushu rice, which was distributed is so much better than most people of to experimenters in the Lake Charles district and elsewhere in the rice belt.

The result of the milling tests of the Kiushu rice are therefore a waited with much interest. If the high milling quality of this rice is maintained under our cultural conditions, the complate success of an American system of rice cultivation will be firmly established.

For the purpose of d ffusing information on the new American system and its relation to the general question of rice production, a report has been prepared by Dr. Knapp, which will soon be issued by the U. S. Depart. hill, Mass., has organized and will ment of Agriculture as Bulletin No 22, Division of Briany, entitled "The Pres-The new creamery building at Kelly's | ent Status of R ca Culture in the United | dea h occurred at the Normal College

production, and areas of lands suitable for the further extension of the indus Louisiana during the last ten years, is very promising There is no satisfac followed by articles on "The Oxeye rice, nor is there any reason why the United States should not become an ex porter of rice. Rice cultivation in the Hawaiian Islands and in the Philippines is referred to, and then a full de scription of the methods of cultivation | years; no fall crop of fruit or - x years; in the United States is given, and the obstacles to rice cultivation are mentioned. This is followed by some gen eral notes on the culture and treatment | crop for plug manufacturin ; ne gen of rice, describing the preparation of the ground, so wing the seed, injury to bloom flooting, harvesting, thrashing,

> fertilizing, and milling. There is also a fashion in rice. Fish ion requires a high gloss, and to obtain this the most nutriti us portions are removed under the polishing process Estimated according the food values, rice polish is 1 76 times as valuable for | better papers of all kinds; more gen- | Francis, New L nox, Ill,

food as polished rice. The oriental custom, much used by farmers in the South, of removing the hulls and bran with a pounder and using the grain without polishing is economical, and furnishes a rice of much higher food value than the rice of commerce. In the process of polishing rearly all the fats are removed. In 100 pounds of rice polish there are 72 pounds of fats. In 100 pounds of polished rice

Fashion also increases the cost of grains and places a value of about 2 cents per pound more on head rice (whole grains) than on the same qual-

The report then treats of the produc tion and consumption of rice in Asia. must be sustained largely by the product of 7 000 000 acres of rice. The population of India, including Burmah, is In 1880 a peculiar prairie region in people. Nearly 60,000 000 acres are devoted to this cereal, and rice has been conditions that many varieties, rangtry of equal extent.

Re- is an important factor in the commerce of almost all oriental countries, and its production is essentially upon the same general plan, but diff ra so materially from the methods emtherefore the total cost of production, played in the United States that they are carefully noted in the report.

Tae bulletin concludes with a brief reference to the cultivation of rice in Africa, Europe, and Central and Suth America.

Washington D C.

The poultry business is made up of a good many details and it requires thought, time, work and a liberal supply of good feed to secure the best results. - Blaine Firch, Cobder, Iil.

### FARMING IN ALAMANCE.

ffect of Factories on Agriculture- In dustrial Progress-Negro : abor.

orrespondence of the Progressive Farmer. I have seen but little in your page. from Alami Ca during this year. As this is Taangegiving Day with the weather all that one could wish or desire I feel I ke the old elder-"I feet thank ul that it is no wuss' with us

Now, considering that our condition other nations, we can, with the Pealm ist, say, "Thy mercies are more than we can sum up" In fact, all things are good or bad only by comparison Many claim that this is the most beau tiful and pleasant fall season seen or experienced in this region within the recollection of the oldest inhabitant And truly it has been a fine and pleasant one; but I have seen many such an one, when there were better crops, more apples and cider, mora haws, per simmons, rabbits and 'possums, fewer deaths and more weddings

I expected a friend, O S Harris, to dine with us to day; but ala ! he is called to attend the funeral and burial of Mi-s Fannie Turner, at Hillaboro. Har in Greensboro, yesterday. Perhaps no This report gives a history of the young lady in the State was more origin of rice and its introduction into | widely known or more highly esteemed The eleventh butterin on "Experi the United States, the conditions of A recent letter from Greensboro to a member of our family states that quite for rice culture. It says the outlook number of the people who remained on account of sickness are critically ill try, using the American methods, as while many who returned to their developed in the district of southern homes have died. So much for over crowding and lack of proper sanitary regulations. Was it in the dairy tory reason why the United States drainage, the sitks, sewerage, ventila should not grow and mill all of itsown tor, or what? A fearful responsibility rests somewhere.

It is stated that prosperity reaches the farmer last; the Alamance farmer, considering a number of things. towit: Bad crops of wheat for enveral no first class, all round crop of lobacco for many years (this year the crop is very heavy, ripe and waxay; agood eral price all round 5 c-nts per pound ue )-is forging aheat and slowly and surely bettering his condition; getting more home comforte; more conveniences; better stock Our doctors are get ting wiser; our preachers preaching more and better; our people have

eral intelligence and more money and wealth, even if it is not equitably distributed. Even the morals of our people are improving. There is less drunkenness, less theft and extreme poverty in Alamance than there was before the war or at any time before the present, all things are better and growing better.

A branch of the great Southern Rail way runs through our county. The depots have been enlarged, side tracks lengthened. Occonnecchee Mountain, at Hillsbore is being torn down for ballast. A long line of telephone is to be put up along the railroad.

Nearly all of our cotton factories have been enlarged or new machinery put in Our sash and door and furniture factories are all on a boom.

But with all this prosperity for the railroads and factories, there are full as many drawbacks to the farmers. The railroads dump at our depots flour and meat cheaper than the farmer can principal food of this vast number of really raise them here. They bring vast quantities of stale and poisoned vegetables to our factories, so that the and under such a great diversity of made sick before our vegetables are ready for market. Watermelons as China has more land adapted to the laris in each one to give a well person the chille, are brought by the car load and sold so cheap that the factory boy caunot resist, so he eats and is sick. So by the time our cabbage come into market they say, "La, we've had 'em till we're jest sick and tired of 'em.' The boyssay, "We est some melons and they made us sick."

The factories have absorbed nearly all the white labor from the farms. A dezen negro men that used to find em ployment on the farms now pick up a precarious living around each factory and fully a score of women by washing and cooking so there is now no reliable labor, either white or black, that can be hired for the year round.

So our entire dependence for farm labor is on negro tenants. Most of them are one horse, slovenly farmers, but it is that or none other. If these are deported the farming will have to be done by the old men and small chil dren. We are not going to cross the oridge till we get to it; but it is best to consider the case beforehand.

B F. WHITE. Alamance Co. N. C.

It is a mark of thrift and enterprise for a farmer to have good, well-painted and well-k pt farm buildings, and this e ndition, chupled with good roads and tences, always delights the eye of the traveler through the farming com munity and is every where regarded as a pretty sure sign of prosperity .-Charles W. Johnson, Grand Detour. Illinois.

## FOR YOU TO THINK OF.

Correspondence of the Progressive Farmer. Am surprised that we grow so few onions when they require so little attention, if planted in August, Septemper or March. They want well rotted and rich manure with land thoroughly cultivated before they are planted The parenip is worthy of extensive culture for family use and for cattle. fae carrot should be grown for market and home use. These roots can stand in the ground or be put in hills for winter use The Irish potato should ne largely cultivated, as they are so valuable the year round; may be served in so many ways-stewed, boiled, fried. Hogs and cows will eat them. After lance, and ignorance is the cause of planting them do not plow them; if any work at all is given, let it be a light surface work once and then let all grow together. The tomato is fine for the table the year through, when properly canned in glass cans or jurs. Raw or cooked, good in many ways, so they may be served to the taste of ar youe.

Why should the farmer have a bare table when there are so many simple vegetable dishes that cost him a mere trifl ? His butter and hog meat are more costly and not so wholesome. Frod conks with a supply of all these things may make a table shine at any season of the year. As to people that are not fond of any or all the above. it is in the manner they are served.

R R MOORE. Guilford Co., N C.

I have never in my experience known a man to engage in farming and stock raising, who used reasoable judgment, who was not afraid to work. more and better school books, school out could make a living and something teachers and school houses; more and to lay by for a rainy day. - Charles cultivate this cereal increase the aver

TEN THOUSAND DOLLARS YEAR AT TRUCK FARMING.

In The Progressive Farmer of Nov. 28th appeared a very practical article by Mr. F. J. Merriam, of Battle Hill, Ga., on "Conditions Necessary to Cheap Cotton Production." Our read ers doubtless enjoyed Mr. Merriam's letter and it is probable that they will hear from him again through our columns. It may interest them also to learn that Mr. Merriam with his partner makes from \$5,000 to \$10,000 a year at truck farming. In a letter in the last issue of Farmers' Voice he gives the fundamentals to his success and, as the Voice says, "it would be difficult to find crowded into briefer space more of wise suggestion than the following narrative of experience and observation contains." Mr. Merriam says:

"In complying with your request for a short sketch of the methods which have contributed to our success in truck farming, I wish to say that I do not regard our success as at all phenomenal, but believe that it can be duplicated near any good market in this country, and there are many which are as good, or better, than Atlanta. We had the advantage of a good location for our garden, to start with, and the further advantage of be ing without any capital, besides a few hundred dollars. I say advantage because I have seen so many instances where people went to gardening with plenty of capital, but without knowl edge of the business, and sunk every cent they put into it. The discouraging effect from the liss of money ecems to paralyze the energies and warp the judgment so that nothing succeeds; therefore unless a man knows his business thoroughly and right where to put every dollar to make it profitable, he had better be without capital, and start small. This is what we did. We started small, and instead of trying to have a large general garden all at once, we made a specialty of one or two things; we etudied these special crops, both with reference to themselves and our market, and we made them extra fine. This gave us control of the market along these lines, and a better chance to sell other things as we gradually worked into hem.

'Taere are so many minute points which contribute to success in any business that it is hard to tell which are the most essential. A few that I know have help d me are First, I have a congenial, bonest, hard working partner. He attends to the sales department of the business, and keeps the books (our books cost us \$11).

"Second. I have been exceptionally fortunate in my success in dealing with men, both white and black, in bringing out the best there is in them, getting them enthusiastic about the work, and making my interests theirs. This consider one of the main points, for I have seen a man's business entirely wrecked for no other reason except that he could not mauage help.

"Toird. We make it a point to know what we are doing, We make a study of every crop, its needs, the soil best adapted to it, and the fertilizers required to give the best results. Then we study every piece of land we have. and try to have the conditions just right to make it do its best. The fail ure of a crop is more often caused by its treatment than from outside condi tions. Mistakes are caused by ignor failure nine times out of ten in any business."

#### FERTILIZERS AND THEIR APPLI CATION.

At the recent session of the Nationa Farmers' Congress in Boston the sub ject of fertilizers was discussed by Prof E. B. Voorhees in a thoughtful and exhaustive paper, which is given here only in outline:

It is little more than a year since Sin William Crookes sounded his note of warning in respect to the imperfect methods of agricultural practice now prevalent and indicated a possible de ficiency of the food supply of bread eating nations. While I believe that his deductions are in part based on false premises, I do feel there is more truth, on the whole, in his conclusions than is accepted by most of the stu dents of this question. Actual total production of breadstuffs is not corre spondingly greater from year to year. and therefore largely increased de mands cannot be met, unless those who age yield very largely over that ob

tained at the present time. I do not mean to say that this is not possible, but there is also the question of its probability. Farmers do not live up to, in practice, all they know. Even the statisticians, who have "put up a bold biuff" in respect to any possible shortage of our food supply, are at the same time pointing out the necessity of improved methods of culture, in order that the future may be secure. This is the saving feature of the situation. What I fear is not legitimate exhaustion of our soils, which naturally accompanies any system of farming, but unnecessary exhaustion, which results from improvident methods of practice both in the growing and the utilizing of our crops.

I shall first discuss the use of commercial fertilizers in relation to "general fertility," by which I mean the productive capacity of those soils that have been cropped for a long time, and that now, even under good management and the use of the natural wastes, do not yield a profitable harvest. In the first place, the addi ion thal must be made to these soils is nitrogen, phosphoric acid and potash, and I do not consider as a fertilizer a substance which does not contain one or more of these elements. But all three elements may not be required by a given soil, So you must first know your soilwhat you want; and then your fertillz:r-what you are getting. There is too much ignorant buying of commercial fertilizers on the tonnage basis, Then the application must be systematic, aimed to supply a definite need of the soil. Owing to the demand for cheap ton prices, the average brand of commercial fertilizer to day only contains about 300 pounds of actual fertil zing constituents to the ton, Yet it is quite as easy to make brands that will contain as high as 450 pounds of fertilizing constituents, and thus be 50 per cent. better than the present. And farmers should take pains not to buy elements of fertility which they don't want. In the continuous cropping of wheat, for example, phosphoric acid is the most rapidly exhausted. So the farmer wastes the money he spends for potash. Then there is also the question of profit. Fertilizers, in order to be profitable, must be applied to crops, the possible increase of which will bring more than the cost of the materia's u ed. Tais rule seems obvious, but is often overlooked.

But there are other conditions where the fertility demand is of a different character. There are what I term 'sp c al fertility" requirements as well as general. That is, there is a kind of farming where natural fertility, however great, is inadequate to meet the special needs of the crops grown. Here the farmer has to consider not only yield but quality; he sells his nitrogen, phosphoric acid and potash not, as it were, in bulk, but in neat and attractive packages, and therefore gets a high enough price for a given quantity of it to pay for a great deal of waste in the doing up. Take asparagus, for example; its market value depends on the erza, succulence and sweetness. This perfection of quality can only be attained when the plant has at disposal an abundance of all forms of plant food during the entire period of growth. An application of \$50 worth of plant food will thus often prove more profitable for asparagus that \$2 worth to a crop of wheat. It is in this production of quality that the most lavish and profitable use of fertil z rs will increasingly be found.

We have another point to considerthe relation of commercial fertilizers to the exports of farm products. We are exporting in wheat, rye, cats and nitrogenous feeds the potential wealth of our country from an agricultural s andpoint. Now when we sell a bushel of wheat for 60 cents, we sell nitrogen for 41 cents a pound and phosphorie acid and potash for 14 cents. The difference between the prices received for these constituents in the wheat, and the prices paid for the elements as they originally existed in the soil, must include cost of raising and selling the wheat, as well as the farmer's profit. How much better to export flour and get twice the money for 60 per cent. less plant food! The same principle applies to other grains. Convert your plant food into beef, pork or butter. and you get enormously higher prices for much less costly articles. So I don't approve of the corn propagrands; I had rather see the maize go abroad in pork or beef.

CONTINUED ON PAGE 8.1