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THE PROGRESSIVE FARMER is the Official Organ of the North Carolina Farmers' State Alliance.



"I am standing now just behind the priain, and in full glow of the coming maset. Behind me are the shadows on sum. the track, before me lies the dark valley and the river. When I mingle with its jark waters I want to cast one lingering look upon a country whose governnent is of the people, for the people, and by the people,"-L. L. Polk, July

largest quantities, ranging from 2,721, is higher in the first, but the propor 240 gallons in Missouri to 1,110,183 gal lons in Illinois. The report of the last. Kansas State Board of Agriculture shows that in 1890 that State produced

3 431 100 gallons sorghum sirup, not 1,484,937 gallons, as stated in the national census returns, thus placing Kansas easily first instead of fifth in sorghum sirup production.

One of the best bulletins yet issued by the North Carolina Experiment Station is "Farming in North Caro lina," by Prof. W. F. Massey. A re view of the work is unnecessary, as any of our readers can secure a copy free by addressing a postal card requist for same to "Agricultural Experiment Station, Raleigh, N. C." We advise every farmer reader of this paper to send for a copy. By the way, when next you go to the posteffice, buy a supply of postal cards and do not let the supply become exhausted. Then when you see a reference to a bulletin or a manufacturer's catalogue which you need, send for it at once. Very often an advertiser in The Progressive Farmer offers a valuable catalogue free to all who apply, and a postal card request for same would in many in stances save the reader a snug little

The Horticulturist of the Virginia Experiment Station, Wm. B. Alwood, states that from his experience it ap pears to be a simple matter for any in telligent farmer to grow forest trees seedlings either for decorative planting or for wind breaks and forest belts. All such seeds as silver maple and like Written for The Progressive Farmer by early ripening species, it is necessary to sow as soon as ripe. They can be sown in the same manner and will grow as readily as peas. All late ripen ing species should be sown in the fall. Walnuts can be bulked down, several bushels in a heap, and then taken up and planted in the spring with perfect success. Also a simple plan with these species is to plant the nuts where the trees are to stand. If no stock inter feres they will grow with great certainty, and in rich soil so rapidly as to astonish one unfamiliar with the cul ture of forest trees. Most of the forest trees do best if set out at 5 to 8 feet tall; hence many should stand but one

tion of fat is decidedly greater in the When the milking periods are un equal the longer period will generally,

though not always, give the larger yield of milk, of fat, and of solids not fat; but the difference in yield does not correspond to the difference in time; that is, the secretion calculated perhour

is greater during the shorter period. Neither day time nor night time is shown to be superior as a milk pro ducing period.

Another report to Congress is about to be made from the Agricultural De partment upon the development of the beet sugar industry in the United States for the year. Mr. Charles F. Saylor, the author of a similar report for last year, has been preparing it, and has incorporated into it an inter esting account of sugar growing in Puerto Rico and other notes on the agriculture of the island. Mr. Saylor describes the methods of the natives as the most primitive imaginable, with consequently a minimum of results. All field work is performed by oxen. though ponies are used for riding. In stead of the ox yoke resting against the shoulder, it is fastened on the front of the head and attached to the horns

and the ox propels the load by pushing it with his head. Mr. Saylor states that the native workman does not accomplish in a day more than one third as much work as a laborer in the

# AGRICULTURE.

### PEANUT CULTURE.

Jorrespondence of the Progressive Farmer. The peanut crop is yearly becoming of greater importance to the Southern farmer. It is a crop that is peculiarly svited to the warm climates, and being a short season crop, it need not be planted until the soil is thoroughly warmed up, about the middle of May, or even early June is time enough to plant. I have known a very good crop made, planted as late as the first week in July. Another point in its favor is that it can be planted after the rush of spring planting is over and the most

of the other farm crops are laid by. A good plan is to follow the oat or wheat crop with peanuts immediately after these are harvested. Oat and wheat stubble plowed under seems to have something in its get up favorable for the peanut crop, and I have never seen a poor crop of peanuts where it fol lowed these small grain crops, provid ing the land was properly prepared and the correct fertilizers used.

A sandy soil with some lime in its get up is specially advisable to secure a good crop. The land must be thor oughly plowed and broken up, to let in warm air and sunshine, and put in as friable a condition as possible. It should be smoothed well over with a harrow, and at the last harrowing or working about 800 pounds per acre of a good fertilizer broadcasted and worked into the soil. This fertilizer should be of a very good grade, ana lyzing about eight per cent. of phosphoric acid, and eight per cent. of potash. Some farmers prefer to drill in the fertilizer at planting time, but this is not to be recommended as the skin of the peanut is so thin and deli cate, that a strong fertilizer in the drill pcint of being mere "supplies." The next to it, would be apt to impair its] germinating powers, so that to get beef, butter and milk. Here in Raleigh best results and get a good stand, the it is practically impossible to get a fertilizer should be applied in the manner already indicated and three or four weeks before planting time. When ready to plant lay off the land in furrows about thirty inches each way, checking it, so as to be easy of cultivation when the time comes for subduing the grass and weeds that are sure to come. In each check a couple of seeds should be dropped and covered a couple of inches deep with the foot, and pressed down. Then in a few days the whole ground should be again har rowed and smoothed off obliterating these furrow marks. In about ten days from planting time, they should be showing above ground, and being at a time of the

have grown pumpkins this way and also, to a large extent, shade out above. weeds which, on river low grounds, corn has been cultivated the last time, ing in the buildings.

firm flesh, and do not rot readily.

which were stored in a building dur ing the latter part of September be nary foods. The cows and pigs re ceived them till the middle of Decem ber and the calves till the 10th of Feb how long they would keep, and only rotted about the first of March. Those covered with straw.

before storing away, but I am confi ary became soft very soon after they as the very foundation of successful

than by making it into ensilage. Many Enough seed is mixed with the corn so have been deterred from attempting that one will be dropped to every five to make ensilage because they imagine or six hills. The corn is in no way that a very costly building is needed. damaged by the pumpkins-rather. The only requisite in a silo is that it benefited, as their umbageous leaves should be as near air tight as possible keep the sun from striking the ground, at bottom and sides and freely open

The corn is cut into the silo when in make considerable growth after the the roasting ear state, and when the silo is full a cover of straw is put over when the season is favorable. The it or a layer of cotton seed hulls to only cost is that of drawing and stor | take the mold at the top and the whole thing is done. The corn can be stored The Virginia Mammoth does well dripping wet if need be or it can he when planted on bottom lands with left to wilt in the fields a day or so. corn. They are large, have thick, The weather never need interfere with the work. Then too when the corn is Last year we had over fifty tons, cut and stored the land is ready and clear for the fall crop. Here at our college last season we had a crop of fore frost touched them. They were cats that were cut for hay. The land fed to cows, calves and pigs, and was then plowed and corn planted for proved a ualuable adjunct to the ordi- easilage. This corn was cut and stored and the land well prepared again and seeded down to grass, and to day there is not a finer piece of grass around the ruary. A few were set aside to see city on the land where a year ago the cats were growing and corn was afterwards raised. The cutting of corn at stored until cold weather were well the ground is heavy work when done by hand, but we now have machines We have been advised often to let that cut and bind the stalks in bundles pumpkins have one good frost on them so that the hauling and handling are far easier. Of course it is not worth dent they would not keep as well for a man's time to build a silo if he has it. I noticed some that got touched but a cow or two, but we are advocatwith frost during a cold spell in Janu | ing the feeding of more and more stock

5th, 1890.

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### PRACTICAL FARM NOTES.

the Editors, and Prof. Guy E. Mitchell. The American goldfinch or wild can-

ary is as beautiful as it is useful, and as a weed destroyer has few equals. It confines its attention very largely to one family of plants, the Compositae, and is especially fond of wild lettuce, thistles, wild sunflower and rag weed. It is so often seen gracefully poised upon thistles that it is commonly called the thistle bird. It is also very fond of cultivated sunflower seeds.

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The forest area of American British possessions it estimated at about 800 million acres. The settler has cut his way into the fringe of this vast wood land, but his depredations are nothing as compared with the terrific scourge of fire which has rampaged through it at different times. The United States has about 450 million acres of forest and this is being rapidly depleted by the axe and also by destructive fires, which the government, however, is now investigating means to prevent or control.

Beet pulp has been fed to dairy cat tle in California for many years with satisfactory results. Reports from Pecos Valley, N. M., show the satis sheep and a good demand for pulp. In visiting the best sugar farms of Europe,

houses or stacked, it should then be be worth another ten dollars. In en A French economic ornithologist nd oats after a crop of velvet beans treating of agricultural and live stock cine plan." By buying the materials dug up and thrown in windrows for a silage the crop made me twenty tons states it as his belief, resulting from his was larger than after a crop of cow and mixing them at home in the prosubjects are becoming every year investigations, that if the world were per acre. The feeding value of this few days to get dry enough to shake peas. In oat straw, however, the re more important in the farmer's home. portions he needs, he can always be ensilage was fully \$3 per ton, and in to become birdless, man could not in all the sand off, then hauled to the verse was true. They should be supplied for the young sure of having what he wants and of some experiments I had made it was habit it after nine years' time, in spite barn and thrown over racks to cure getting it at a much lower rate than people and they could be encouraged of all the sprays and poisons that could worth half as much as timothy hay The Illinois Station has been record thoroughly. If intended for hog feed, to carefully read them. This will lead the same value could be had from the for mules, and timothy hay was worth be manufactured for the destruction of the pigs can be turned in and allowed ing the variations of different cows to thoughtful interest in all the departmanufacturers. Some shortsighted insects. He shows that birds eat hun there then \$10 per ton. But taking the to do their own harvesting. Take it and of the same cow at different times, ments of farm work, will tend to estabfertilizer manufacturers are trying to lower figures the crop as ensilage was dreds of millions of insects daily, which all in all a crop of peanuts is to be in the quantity and quality of the milk lish farmer's meetings, will give to the prevent the farmers from getting the cannot be doubted when stomach ex worth \$75 against a possible value of specially recommended, as it is a very produced, and these records demon matters of daily employment an interchemicals and doing their own mixing. \$30 as grain and dried fodder. Not aminations show that all the insect profitable one. Fifty bushels per acre strate the following truths: est and dignity that will make farm But they are working against their that the ensilaging added any food eating birds are continually destroying The yield of milk from different cows is a very ordinary yield, and when we life far more attractive than under own interest in this, for the home mix large numbers of insects, most of them value to it, but it put it into a shape consider its fattening properties and under the same conditions differs ing of fertilizers is going to be the rule former conditions when such a life that made it more palatable and in harmful to agriculture. Birds are more greatly, and that from the same cow the love all stock has for it as food, we was one of only monotonous, sordid in the future, and the sooner the fertil the farmer's friend than he realizes. which it was all saved and eaten, while varies widely from day to day. should make it a point to grow as there was a large waste in the ordinary toil. izer men realize it and put all the facil-Impress this fact upon your boy. large an acreage of it as we possibly The composition of milk is highly It is worth while to make the life ities in the way of the farmer's getting saving of fodder and a loss in the eat -----C. K. M. QUARRIE. variable; the ratio of fat to other solids, can. attractive and the toil remunerative. what he wants the more they can make ing, as cattle discarded the hard stalks Those interested in sorghum growing and that of solids to water, are not ----Much can be done in this way by enby sales of these things. It has been which are all eaten as ensilage. should send to "U. S. Department of PLANT PUMPKINS. constant as between different cows or couraging the boy to keep up with the abundantly proved at more than one Agriculture, Washington, D. C.," for for the same cow on successive days. In all this I am going on the assump latest agricultural thought. The ablest station that home mixed fertilizers tion that the grain raised on our farms For milch cows, whilst they are un a free copy of Farmers' Bulletin, No. The percentage of fat, or of other give just as good results as the same minds of the country are giving their dergoing the change from pasture to is to be util zed on the place with the 90, "The manufacture of Sorghum solids, is not always highest in the labors to agricultural science and congrade of factory mixed goods and cost exception of the wheat, which must be Sirup." This is becoming a rather smaller yields, but cows that give milk dry feed, there are few, if any, kinds far less." tributing to its literature, and are havof food that will keep them to their manufactured elsewhere, and with the great industry. with a high per cent. of solids gener ing a practical effect upon the farm In 1889, 11 States produced over a ally show a low total yield. increased crops of this the mills will milk as well as pumpkins. They are FINE RIDGE, N. C. work of the country. Unless the boy increase and add to the wealth of the splendid for calves going into winter million gallons of sorghum sirup each. EDS. PROGRESSIVE FARMER :- Find Fat is the most variable constituent reads he will be a century behind when quarters, and make an excellent and State. But no raw product that can It was produced in greater or less of milk, and its variations are depend enclosed \$1, for which please move up he himself becomes the manager of be utilized on the farm to make a more quantities in 44 States and Territories. healthful food to give with corn to fat my subscription one year. I would ent of those of the other solids; there the farm,-Texas Stock and Farm ten pigs. In moist situations, such as valuable product should ever be sold Miesouri, Tennessee, Kentucky, Arfore the yield of milk is a better index order it to stop, but your paper gets Journal. river low grounds, a great abundance in a raw state We have never found kansas, Texas, Kinsas, Iowa, Georgia, better and better. I don't see how a of the other solids than it is of the fat. of pumpkins can be grown along with any way in which the corn crop can North Carolina, Alabama, and Illi Mention The Progressive Farme farmer can afford to be without it. As regards the first and last milk the corn. For quite a few years we be more profitably used on the farm when writing to advertisers. nois, in the order given, produced the drawn, the proportion of solids not fat R. W. BOYLES.

year in the nursery row.

In 1898, cooperative experiments were made with velvet beans for the Alabama Station by farmers in 14 localities in that State. In reporting re sults the great majority of experimenters reported a more luxuriant growth made by velvet beans than by cowpeas. Almost invariably the yield of hay as judged by the eye was estimated as much greater than the yield of cow pea hay. However, it is easy to over esti mate the yield of velvet bean hay, for the growing vines present an imposing appearance and the hay is loose and factory feeding of large numbers of bulky. Summing up, the Alabama Station says:

> "Giving due weight to these reports of results based merely on appearance and to our accurate expesiments at Auburn, where the product of large plots was weighed, it appears probable that on good land the cow pea and velvet bean afford practically equal yields of hay, while on poor, deep sandy land the velvet bean may afford a larger yield."

At the station the yield of sorghum

United States. A great proportion of the natives, however, he finds living on 5 cents a day. In many cases they live entirely upon such a simple diet as raw sugar cane. Pure sugar is not an uncommon ration in many tropical countries. He figures in detail that sugar can be laid down in New York (duty free) at less than 2 cents a pound. ----

Slowly but surely the farmers are beginning to realize the advantages of mixing their own fertilizers. Of course not all farmers are prepared to do this, but any intelligent farmer who will carefully read Voorhees' Fertilizers' will promptly see the reason for home mixing, the way to do it, and the profit there is in it. The farmer who knows nothing of the ingredients of fertilizers is not better prepared to mix a fertilizer for weak and impoverished land than the man who knows nothing of pharmacy is to compound a medicine for a sick man. But where the pharma cist must learn of scores of ingredients before being prepared to compound a medicine for a sick man, the farmer who wishes to compound a fertilizer for a sick soil needs to know the character and nature of but three elements -potash, phosphorus, and nitrogen.

Thus his task is a very easy one. It requires no college training, but merely the ability to read intelligently. This being the case, brother farmer, why not mix your own fertilizers and keep at home the tribute money you have been paying to enrich fertilizer compounders and their agents? Re ferring to this matter of home mixing. the bulletin, ' Farming in North Caro lina," to which we have just ailuded, says:

of corn there would be worth as grain to the feeding of beet pulp from the pods form. sity in the recuperation of the soil, be able to rightly understand the im-40 cents per bushel or \$20 per acre, and sugar factories. In addition to the Whenever the vines begin to take on provements needed to make his toil their making is a matter of much imthe fodder saved in the usual way by a yellowish tint, the nuts are full pulp, a small proportion of molasses is profitable and to preserve the fertility portance, and the farmer should know cutting it off at the ground and curing grown and are beginning to ripen. If also fed. of his inheritance instead of wasting it. just what he is using and no longer in shocks would perhaps, if saved, well the crop is intended to be saved and Works on agriculture and journals buy his fertilizers on "the patent medi-

year when weeds and grass are likely to be troublesome, the cultivator and sweep must be kept busy to keep down weeds and pulverize the soil, for weeds grass, and peanuts don't grow well to gether.

If the ground has been put in good condition, previous to planting, the crop will not require much cultivation

thawed out .- Albert R Bellwood, in Southern Planter.

## THE CORN CROP.

But it is not the hog alone that can make use of the corn crop when it is produced as it should be, beyond the whole State needs more and better piece of beef fit to eat by anyone who knows what good beef is. Our people have been taught that beef can be made from feeding cotton seed meal and hulls. And so it can of a certain kind, but far from being good beef. It smell, and not fit for a respectable table. When fed to dairy cows, the butter is made crumbly and white and is far from being "gilt edge." Cotton seed meal and hulls should be relegated to the compost pile. They make good manure, and the land needs them, and the farms]can grow better food for animals and food that will make eatable beef and butter.

> And here is where the corn crop comes in again: In the feeding of beeves and cows the whole crop can be utilized at once by turning into ensilage. There are too few silos in the State. and too few good cattle to be fed from them. There is no way in which the corn crop can be more profitably used than by turning it into ensilage and feeding stock on this for beef and milk.

Years ago when I was filling silos in during the growing period, and when thoughts evolved by discussion and Virginia with corn that would make says the assistant chemist of the Ag ever the blossoms begin falling, all culthe work of the experiment stations over 50 bushels per acre if left to ripen, ricultural Department, an excellent tivation should cease, and the last are continually appearing, and unless a neighbor said it was a shame to waste condition among the beef and dairy should be of a nature to throw as much the farmer is a reader he will fall besuch fine corn in such a way. I told cattle is quite noticeable. This desirable soil on the vine as possible, thus assist hind the front of his industry. Unless him to figure a little. The 50 bushels result is in a large measure traceable ing nature in burying joints on which his son becomes a reader he will not "Fertilizing matters being a neces

farming with any crops. We can here only give hints. But I shall have out from the press in a few days a bulletin on the improvement of our lands, and any farmer in the State can get a copy by sending a card for it, and can have his name entered for all we publish .--W. F. Massey, in Christian Advocate.

#### FARMERS' SONS ANE THEIR READING,

This paper has urged the importance of making a study of the elementary principles of agriculture a part of the course of common Echool education in Texas, and so many thoughtful men are of the same opinion in this that is rank and rammish in taste and only an organized expression is needed to secure this amendment to the school courses The matter will doubtless be presented to the proper authorities and the change effected within a reasonable time. It is certain that public sentiment among thoughtful farmers and others whose duties or business has them to consider the agricultural development of the State is ripe for the change.

> But the farmer can at home do something that will go a long way in promoting the agricultural education of his boys, only commenced in the school. What to plant and when to plant are the first questions for the field. Breeding, feeding and management of live stock are becoming of more interest to farmers as attention is more directed to the live stock industry. In all these departments of agricultural work new