No. 43

THE INDUSTRIAL AND EDUCATIONAL INTERESTS OF OUR PEOPLE PARAMOUNT TO ALL OTHER CONSIDERATIONS OF STATE POLICY.

RALEIGH, N. C., DECEMBER 3, 1895.

Tol. 10.

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PAPERS. ressive Farmer, State Organ, Raleigh, N. C. casian. Hickory, ? Beaver Dam, 1 Populist People's Paper, Vestibule, Charlotte, 1 Concord, N Plow-Boy

ach of the above-named papers are uested to keep the list standing on first page and add others, provided g are duly elected. Any paper failto advocate the Ocala platform will browned from the list promptly. Our nie can now see what papers are Maked in their interest.

AGRICULTURE.

he best time to sell butter is when sfirst made. The longer it is kept larger its deterioration both in dity and quantity. It may surprise ae people to know that butter loses weight, and if much exposed to the this loss is a material one when the ce is high. There is some water in butter, and as the water evaporates place is filled by air. This introes germs into the butter and injures keeping qualities.

outhern rice planters are complainof the low prices and in many sec as are little encouraged to put in the la' acreage next year. Large growwhere well situated, are as a rule 3 disturbed. Many small farmers in leasieu county, La, have stacked ir rice, permitting it to go through sweating process before threshing. e feeling there is bitter against the "ust," claiming the middleman gets urly all the profits, and many groware disposed to hold their rice.

ory corn cobs do not burn with a 'y fierce flame, but saturate two or ee of them with keresene oil and by will easily light a fire. They are very best material for this purpose, they will hold more oil than any id of wood. It is by saturating someould always be used for kindling s. There is no danger from kero ne if it is used in this way, and it is quick way to make a brisk fire on d mornings when getting the fire gog quickly is an important item for mfort.

It is a mistake to begin feeding stock at has recently been at pasture with e coarse fedder exclusively. Some ain should go with it, else the animal av get a setback which no after food eling will overcome. Of course the nutritious fodder has to be fed at metime. It is well to give at first, and the animal eat what it will of this, ving a better feed at noon and at ght. Stock that is fed three times a w always has the best appetite in the orning and it is then that the less latable and nutritious portions of the Wion can best be given.

INSECTS INJURIOUS TO TC-BACCO.

The tobacco worm, or horn caterpillar, is the chief pest of the tobacco field. It is the larval stage of the large and beautiful night flying moth Plegethontius Carolina. Tue moths usually appear in June and July, and the female lays her eggs singly on the upper surface of the leaves of the tobacco plant. The eggs hatch in about 24 hours and the worms at once begin to eat. They soon bore through the leaf and there after feed upon the underside. The "worm" reaches its full growth in August or September, and soon after leaves the plant and burrows into the ground, where it enters into the pupal stage

and remains dormant until the succeeding summer. Some times the earlier hatched worms complete their trans formation and the perfect moth issues in the fall and lays eggs upon the sec ond growth tobacco, upon which the worms mature and enter the ground as above stated.

Ask the average farmer if he gives any time and attention to his poultry, and he will tell you, no; the women folks gather the eggs and raise a few young ones, but they do not pay. Of course they do not, nor would the cattle, horses or pigs if looked after the same slipshod manner.

RED CLOVER AS A RENOVATOR.

Every one who raises stock recognizes the value of clover as a feed stuff, but few appreciate its true value as a renovator. Clover can be profitably grown in many sections of the South where it is now not even known, Some one will try to grow it in a spasmodic way, and failing, will publish it far and near that red clover in the Gulf States is a failure; or that its growth cannot be depended on in the South Atlantic

It is true that it makes a poor growth on a light sandy soil, but there are sections in all the Southern States that are well adapted to the growth of clover as far the soil is concerned. The long hot summers and occasional drougths are of course damaging. The bad effects of summer can be somewhat overcome by planting in the fall and allowing the crop to grow through the winter and make what it will before the hot weather comes on.

The second trouble is liable to occur anywhere and can be obviated to a great extent by deep preparation of the soil, and deep drainage. In this way our cultivated crops are bridged over a drouth and of course the same holds good for clover.

So any lime, clay, loam, or any soil inclined to be stiff, that is well drained and plowed deep will grow clover, provided it has enough fertility in it to give the clover a good start. But this last proviso is the idea that is to be impressed. Clover is one of the best renovators, but it requires considerable encouragement on poor land. Like the Poland China hog it will make splendid returns for extra

On this soil it is often not only advisable, but even necessary to manure the crop to start with. It is quite a common practice in some sections to give a top dressing of land plaster, but on naturally poor soils; or those worn down to the clay, a good supply of fertility must be added in some form. Manure is the surest fertilizer to use, but the immense cost procludes the possibility of using it on large areas. The barnyard manure is good as far as goes, but the trouble on our Southern

farms is it does not go far enough. Now we must look about for a sub stitute. We want to renovate the land and we select clover to do this, but the ng with kerosene oil that this clover must get some help. What will it be? It seems that something rich in nitrogen would be called for, as clover is a heavy nitrogen feed, but such is not the case, for just there is where clover is such a cheap renovator. It has the peculiar faculty of storing up nitrogen, which is the most expensive of the three essential elements, in fact it costs over twice as much as the phosphorus or potash and more than both

combined. It does seem that the matter of restoring worn soils is very much simpli fied. If it is possible to store up nitrogen in an available form in the soil, to say nothing of the phosphorus and potash also laid up for future use, we can soon bring poor soils up to a high state of cultivation.

In addition to this movement in the soil we are growing a valuable feed stuff. So with a good, liberal applica-

the same time.

deep with a two-horse plow, cut up the land thoroughly with a disc harrow, followed by a smoothing harrow, then sow your seed either with a hand sown or seed drill, and follow with a drag or a roller. If manure is used put on the land broadcast before it is turned, or just ahead of the disc harrow. If com ahead of the disc harrow.

About five hundred pounds of commercial fertilizer will suffice, say 200 pounds of phosphorus, 200 cotton seed meal, and 100 kainit. From ten to fif teen pounds of seed are sown to the

Cut when first heads begin to mature next season, graze lightly afterwards; but again second season, and turn under sod in time to make a corn crop. B. IRBY,

Prof. of Agriculture N. C. College of Agriculture.

LIBERAL WINTER WHEAT SEED ING.

Except in Illinois and Missouri, there appears to be an increase in the acre age of fall sown wheat in every State of importance east of the Rocky Mountains, according to returns to American Agriculturist. Assuming that the Cali fornia area to be sown will equal that of the past year, the total winter wheat area seeded for the coming crop would seem to be slightly less than 26,000,000 acres. This is an increase over the area harvested this year of 1,500,000 acres, but it is an increase more appar ent than real. A considerable portion of the area sown last fall was not har vested, over 2,000,000 acres being aban doned in Kansas alone. Part of this has been reseeded in this State, and this increase, together with the actual increase in other States, is sufficient to make the area now seeded almost iden tical with the acreage planted last fall.

The winter wheat prospect has not shown a more discouraging outlook at this date in any recent year. It is late, small, slow in growth and lacking in vitality. There is of course yet ample time for recovery, and for further germination, should an abundance of moisture be received and trying weather of winter be long deferred. The condition of the plant, however, is such that it will be little able to withstand even the ordinary vicissitudes should an early winter come upon the present dry bed.

and Missouri valleys has been largely brought about by the desire to return part of the corn land of this year to meadow, and what has been sown as a nurse crop with grass. Had the season even been reasonably favorable for seeding the acreage planted would have been much larger than it is. This is especially true in Kansas, where the present area appears to be about 3,230, 000 acres, or at least 1,000,000 smaller than the area sown last fall. Seeding has been prosecuted under decidedly has the fall been the driest since signal follows two years of short rainfall and

parallel in the history of agriculture. been made the plant is small, late and at each place. These surplus trees will with deficient root growth, fails to be of use to replace where there has cover the ground well and is lacking been a failure. At the end of the sec in vigor. Michigan alone reports a ond year, you will have a lot of trees favorable seed time, good growing that will be of salable size and you may weather and a satisfactory outlook. In | dispose of all so as to leave the trees Illinois conditions are varied, but in no standing 16 feet each way. In the section has rainfall been sufficient | course of time, you will find that this With the exception of a few unimport- is too close; but by that time the trees ant counties in the southern part of the State, and scattered localities in the them some value as timber, and ansoutheast, nothing favorable can be other thinning as before may be made, said of the Missouri crop. Kansas returns are conflicting. The local rains phate and potash will make a good have supplied sufficient moisture in dressing for the trees while small, but some districts, while in others the seed | it will hardly pay to manure them at planted still lies in a bed of dust, where all. They should be well cultivated not blown entirely out of the ground. | till July each year, and then the ground

The percentages of area sown as as follows by States:

New York.....100 Michigan... 112 Illinois.... 95 Texas 102 Wisconsin. 108 Arkansas.....103 Iowa..... 115 l'ennessee 99 Kentucky.....101 Missouri.... 90

THE RECORD BREAKING CORN CROP.

tion of potash and phosphorus in some districts where the heaviest crop was form, and if the land is very poor add expected. The shrinkage, while not nitrogen, we may reasonably expect a serious, is enough to reduce the aver paying crop and a renovating crop at age yield for the country to moderate Correspondence of the Progressive Farmer. figures. While the total crop is the October is a good time to sow. Plow largest ever grown, it is the result of who owns cows a better dairyman to both, the average price per pound for the heavy acreage rather than an over sit down and compare the present the three breeds being as follows: In abundant yield. Central Illinois, Kansas and local districts in Iowa are most affected by this diminished expecta tion. To all outward appearances ears as they hung in the husk were filled. but an actual handling of the crop as all know how low they are, but let us reported by American Agriculturist's think a moment on butter. mercial fertilizer is used put on just complete corps of correspondents in every surplus State develops the fact about it at all is in most localities that the hot, dry weather experienced bringing not less than twenty cents per during the last six weeks of the growing season caused some premature ripening, shortened the ear and left the grain a trifle chaffy. Of course these conditions, in extreme, only occur in put some of the cheap grain into your rather limited districts, but the damage in the aggregate was large.

The acreage was estimated in July at any other farm product? 81,763,000 acres, and our final investigation makes but little change, the area harvested being estimated at 81,-488,000 acres. The average yield is rellargely on your own capability as a turned at 27 9 bushels, making a total crop of 2,272,378,000 bushels. The rate of yield is less than 1 bushel above the | not produce near five pounds of butter yield from the crops of 1889 and 1891, out the total product is 160,000,000 bushels larger than in 1889, the largest previously grown. The detailed crop by States is estimated as follow:

CORN YIELD BY STATES.		
Acres.	Yield.	Bushels.
N. Y 510 000	32 0	16 320,000
Pa1.302,000	32 5	42 315 000
Texas3 583 000	30.0	116 089 000
Ark2.104,000	24 0	50 496 000
Tenn3 361,000	26 5	89 067 000
W. Va 711,000	27 0	19,197,000
Ky3 164,000	32 0	101,248 000
Ohio 3 237 000	31 0	100 347 000
Mich1,073,000	29 5	31 654 000
Ind 3 925 000	35 5	139,338,000
Illinois7 850 000	36 0	282 600 000
Wis1,250.000	32 0	40 000,000
Minn1.192 000	31 0	37.952 000
Iowa 7 744 000	38 0	294,272 000
Missouri 6 688 000	35 2	235 418 000
Kansas 8 499,000	25 0	212 475.000
Nebraska .6 518 000	16 5	107 547,000
N. Dakota 24 000	22 2	5 328 000
8. Dakota . 1, 104,000	13 2	14,573 000
California. 74 000	29 2	2.146 000
Oregon 15.000	23 0	345 000
Wash'ton 11,000	20 0	220,000
Other 17. 549,000	19 0	333.431,000
	-	

Total.. 81,488,000 27 9 2,272,887,000 -American Agriculturist.

WALNUT CULTURE AT THE SOUTH.

E. T. W. Wilmington, N. C .- I have about three and a half acres of land for which I have no use now; it has grown up to pines. How will it do to plant it to our native walnuts, say The increased acreage in the Ohio | 15x15 feet, making about 196 trees to the acre? What would be the best time to plant? How should they be planted? What kind of manure is best to use? What age nuts are best? Should they be planted with the outside hulls far ahead of other farm interests in on them or not?

Answer.-Clear the pines away and

get the land in good order. Do not burn the pines on the land, as the ashes will be worth less than the vegetable matter you will destroy in the burning. Keep the walnuts in the outer cover till ready to plant, for if they are unfavorable circumstances. Not only allowed to become dry, they will not grow well. Check out the land eight service records are available, but it feet each way, and at each intersection plant two or three nuts to insure a the ground is dry both on the surface stand. The planting should be done and down to a depth almost without this fall as soon as you can get the land ready. Cultivate the first season as The outlook in Indiana and Ohio is you would corn, and take out the survery poor. Where any growth has plus trees in the fall so as to leave one will have attained a size that will give leaving them 32 feet apart. Acid phos sown to peas, on which hogs could be compared with acreage harvested are pastured in the fall when mature, proprovided they have nose jewels to prevent their rooting. The soil treated in Pennsylvania...101 Indiana.... 102 this way will soon get fertile enough. W. F. MASSEY.

Would you not rather vote for what you want and not get it than to vote Nebraska......125 Average....109 1 for what you do not want and get it? Then why do you vote for a goldbug pointment in the yield of corn in many Advocate, Salt Lake, Utah.

THE D. CO. TRY. PROFITABLE BUTTER MAKING.

I think that it will make every one price of butter with that of other farm products.

It is not necessary here to make quotations on grain, vegetables and pork, Guernseys, 45 53 100c.; Short-Horns, common agricultural products, for we Butter that has any decent quality

pound, and it should be accounted poor milk that will yield less than five pounds of butter to the hundred weight.

Can't you see that if you judiciously cows now, the twenty cent butter that it will make will pay you better than

If you should so prefer you can let a creamery do the making for you, but the profits of this plan will depend butter maker.

I hear some say, "But my milk will to the hundred."

Perhaps you do not know how much it could be made to produce, for you may not be getting the butter all out

employ a method of cream extraction that will give you practically all the butter fat,

The old careless way of setting the pantry will not do this, nor will it result in butter of good quality and

separated from the living apartments, and means taken to secure all of the cream. This can be accomplished by correctly practicing the cold deep setting or Swedish system, and if practiced in a good portable creamery many economies and conveniences will result.

Whether your method be by cold deep setting of the milk, or extraction by the hand separator, keep the whole process, including the butter making, entirely apart from the kitchen. If you don't your butter may not bring more than a shilling a pound.

Bear constantly in mind above all things that after you have secured good cows and feed them scientifically, and practice all of the arts of fine butter making, you still may not be making money because your skim milk is too rich.

It is very important to think on and act on these facts now at the beginning of winter, when butter making is so point of profit. GEO. E. NEWELL.

QUALITY OF BUTTER OF THE BREEDS IN THE WORLD'S FAIR TESTS.

Correspondence of the Progressive Farmer. All the butter made in the Chicago tests was scored by experts, appointed by Chief Buchanan, who were prac tical men, standing high in their calling. A sample of the butter was taken each day by the butter maker. This butter was scored about once a week. None of the judges scoring had any means of knowing what butter they were judging. When the scores were made up they were sent to Chief Buchanan, who, after detaching the names of the scorers, sent the scores to the Testing Committee for entry and record. It was impossible for the judges to know what butter they were scoring, except such knowledge as they would obtain of the general characteristics of the breeds. The scale of points was as follows: Flavor, 55; grain, 25; solidity, 10; color 10. The prices allowed for the butter were as follows:

That scoring from 75 to 80 points, 25c. per pound.

30c. " " 80 " 85 " 85 " 90 " 35c. " " 90 ** 95 ** 40c. " " 45c. " " 95 " 100 "

Those who have followed these tests are aware that the Jerseys won at every point-in quantity of milk, quantity of solids other than butter fat, quantity of butter, quantity of cheese, and in net profit. But it is an important matter to determine which of the breeds produced the highest quality of butter. Inasmuch as that scoring highest was rated at the highest price, the value per pound of butter fixed Husking has developed some disap- party when you want free silver!- under the scoring before referred to hand down ice to the goldbugs in the will determine the relative merits of infernal regions."-People's Pilot.

the butter of the various breeds. Am examination of the average price per pound of the butter in the 90 and 30 days tests will show that the Jersoy butter was the highest in quality in the 90 days' test-Jerseys, 40 88 100c ; Guernseys, 40 33 100; Short Horns, 40c. In the 30 days' test -Jerseys, 46 5-100c.; 45 66 100c. These figures prove most conclusively that the Jersey butter was that possessing the highest quality.

Western dairymen labor under a great disadvantage in the fact that usually the water they give their cows is surface water, and not to be compared with the clear spring water which the dairymen of New Engl. nd and the dairy regions of New York have ingreat abundance. This matter of pure water will probably always give the dairymen of the East an advantage. They have also sweeter and better pastures than can be found in the Western States, where the soil has only been turned to dairying after its mineral plant food has become too exhausted to grow grain with profit.

CHURNING AND SALTING.

There are very few farmers' wives who ever think of using a thermometer with the churn. Some times the butter will churn in ten minutes and some The Babcock test will tell you what times it will take hours. Another per cent. of butter it ought to yield, and reason why dairy butter is poor and of it is your duty to your own interests to uneven quality is that farmers' wives take the milk and skim it and put the cream in a crock; the next night they do the same, and continue doing so until they have sufficient for a churnmilk in pans and crocks in the kitchen | ing. The consequence is that the cream has not the same consistency. some of it is acid and some is sweet; it has not all ripened. It is placed all to-The dairy room must be entirely gether in the churn, without any regard to the temperature, and some times it comes out white, curdy or stringy, and they are never sure what they are making. Cream requires to be ripened. The uneven quality of our butter arises from ignorance of the process of butter making, and the want of attention to details. Butter is generally too much salted for an export article. Butter with half an ounce of pure pulverized salt to the pound suits the English market best. That is half the quantity the United States dairy-

> The hog has less hair than other domestic animals, and it is especially liable to be injured by dampness. Where a number of pigs are kept together they will pile over each other. and if the quarters are at all damp; they will be reaking with sweat and wet in the morning. In most places the feeding place is much less protected from the wind than is the sleeping pen. We have often seen hogs roused from their warm bed and standing shivering with cold while eating their breakfast, In this way many fattening hogs take severe colds. This, of course, interferes with their thrift, and, what is even more important, the pork made from such hogs will not be healthful for those who eat it.

POOR FEED, POOR MILK.

The cow is a machine for turning food into milk, and it matters not how good the machine is, it cannot work without material to work upon. Just how to feed in order to realize the largest profit is a question on which there is a diversity of opinion. Some think it pays to feed corn, bran, and chopped stuffs. Others are of a different opinion, but are satisfied with a smaller quantity of milk, if it is made from unmarketable produce and pasture. Now, those who feed beef cattle know that if they do not give their cattle more than will merely supply the requirements of life, they will never make beef, and it is just so with cows; it is the extra food over and above what is actually required to keep the machine in working order, that can be turned into milk. The dairyman that is afraid to put in this extra food for fear he will never see it again, is like a man who, after being at the expense of building a mill, is afraid to buy wheat to grind in it. As far as theory is concerned, one would think that if all the profit is derived from the extra food, the more of it the better. But to judge from the practice of many, it is evident they are unbelievers.

An Arkansas editor says of his State: We have mountains so high that you can tickle the feet of the free silver angels in heaven, and gorges so deepthat you can descend to their base and