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

Vol. 17

A- riculture.

THE FARMERS' NATIONAL CONGRESS

The 1902 Annual Session Will he Held in Macon, Ga., and the Occasion Will be a Notable One.

Correspondence of The Progressive Farmer. It is quite probable that farmers tivation." generally do not fully realize the scope and extent of the Farmers' National Congress, as otherwise they would take a much deeper interest in it. The topics discussed are more particularly those of a national or international character, quite different from what is generally on the programme at farmers' institutes. The following is a copy of the program for the 1902 meeting :

1. Inter-oceanic canal; 2. National irrigation; 3. Reciprocityhow may it affect agricultural inter-

ests? 4. Effect of present insular

pletely accomplished the yield from such lands will be more satisfactory than the harvest from old fields. In fact, in many instances, it would be wise and economical for the farmer to plant his old worn and washed fields to forest and clear land for cul-

The author recommends various methods of bringing such land into productivity, from the use of dynamite to the grazing of Angora goats GUY E. MITCHELL. thereon. Washington, D. C.

THE VALUE OF STABLE MANURE.

In a recent report of the Oklahoma Station Director Fields makes the following statements regarding the value of stable manure, which apply to other portions of the country as well as to Oklahoma :

On the outskirts of every town in possessions on the agriculture of the Oklahoma may be seen a collection United States; 5. Preservation of of manure piles that have been hauled forest and fruit trees and reforesta- out and dumped in waste places. The tion: 6. Injurious insects, insect plant food in each ton of this manure pests and fungi; 7. What part of a is worth at least \$2-that is what man's farm does he sell when he Eastern farmers pay for similar masells the crop? 8. Postal reforms terial, and they make money by doparticularly affecting the farmer; 9. ing it. And yet, almost every livery by me or my son, and the trees do Mutual relations of Northern and man has to pay some one for hauling not die. Southern farmers; 10. Dairy insects the manure away. This is simply of the United States as related to the because farmers living near these towns are missing a chance to secure somet'ling for nothing-because, perhaps, the profit is not directly in sight. But from most soils there is a handsome profit possible from a very small application of stable ma-

Raleigh, N. C., May 13, 1902.

Horticulture.

MANAGING AN APPLE ORCHARD.

Commercial Fertilizers, Root Injury, Eab bits and Other Matters.

Correspondence of The Progressive Farmer. Harry Farmer is a good writer, and as a rule he thinks closely and well; but he mistakes in supposing that fruit trees in cultivated fields die and refuse to bear because the humus has been burnt out by the use of chemical manures. More trees die from the improper use of the plow and single-tree around and near them than from all other causes, unless we may except the ravages of worms. The writer's orchard of apple, peach, plum and a few other fruits has been in cotton and corn alternate years for more than ten years, the corn crop manured with lot manure supplemented by bone and potash, the cotton crop with complete chemical fertilizers. The lot manure was mainly pure straw and is put in drill sparingly, and in passing the trees, I usually throw around each a small quantity of bone and potash; but the plowing is done

every limb on it, but they did not touch | more promptly. 'the body! Any animal flesh will repel them; but grease from meat has the advantage of lasting longer.

HIGH TRIMMING. One other hindrance to success with apple trees is the effects of the high. Under such trimming of young trees you will almost invariably find the bark loose on the south side, caused by the heat of the sun aided by the tossing of the trees by the winds. It is pretty much the loose the bark on sourwood to make spicuous flutes: he rubs to produce heat and then twists to make it loose !

body any old bag or old garment as to shade the body on south side.

FUNGOUS DISEASES. Fungous diseases of both body and eaf do much in weakening the vital-

use much; if you do, you stop up the rier are to carry in the berries as pores and the bark will slough off to fast as picked to the packing houses, the injury of the tree. I used it ten and to keep each picker supplied years ago by applying meat skin and with cups to hold the berries. This the trees first rubbed when the costs a trifle more than requiring grease was plentiful suffered from it pickers to take in their berries, but but not a tree has ever been touched it prevents an immense smount of by them till last summer after one trampling, keeps the pickers at work had blown down; then they skinned and gets the work done better and

A PLAN THAT WORKS WELL.

Each picker is numbered and as signed a certain number of rows. numbered to correspond, by means of a wooden stake. On this stake is also written the picker's name. The sun on their bodies when trimmed division manager is required to write the picker's number on each empty cup assigned. This can be quickly done by taking a dozen or more nested cups in the hand at once and writing the number on the outer rim of each. This also places the same principle on which the boys number where it will be most con

Very stringent orders are given and constantly repeated to each My remedy is to so tie about the picker : not to trample the plants, nor to touch a berry with their hands, but to handle them by the stems alone; to pinch off and leave on each berry half an inch of stem, to always turn the reddest side of

No. 14

The Dairy.

DAIRYING, THE OPPORTUNITY OF SOUTHERN FARMERS.

A Rich Harvest Awaits Those Who Engage in it, Properly Equipped-The Natural Advantages are Ours-Why Has the North Outstripped Us?

borrespondence of The Progressive Farmer.

In the South, there are few industries which are more profitable than dairying, and yet it has not been given very much consideration. This is evidenced by the small number of milch cows kept in the South.

THE DISTRIBUTION OF COWS.

According to the twelfth census, there were 18,112,707 dairy cows in the United States June 1, 1900, or about five cows for every twenty-one persons; but they are not distributed. among the different States in proportion to their population. For example, Iowa has a population of 2,251,825 and 1,423,648 dairy cows, or about two cows for every three per. sons; Illinois has a population of 4,821,550 and 1,064,491 dairy cows. or a little more than one cow for every five persons; and Wisconsin has a population of 2,068,963 and 1,032,811 milch cows or about one cow for every two persons. But here are the figures for some Southern States: North Carolina has a population of 1,891,192 and only 246,755 dairy cows or less than two cows for every fifteen persons; Florida has a population of 528,542 and 84,274 dairy animals or less than one for every six persons ; and South Carolina has a population of 1,340,-312 and only 136,333 dairy animals, or in round numbers, about one cow for every ten persons.

markets of the world; 11. Farm prodats other than dairy products in the markets of the world; 12. The labor problem from the farmer's standpoint: 13. How can we best build up our merchant marine?

The Farmers' National Congress is | nure made up of delegates and associate delegates appointed by the Governors of each State. Every Governor appoints as many delegates as the State has representatives in both Houses of Congress, and as many associate delegates as he chooses.

The meeting will be held at Macon, Ga., Oct. 7-10, and the people of that city will give a hearty welcome to all who attend.

The Southeastern Passenger Association has granted a rate of one fare for round trip; and there is a fair associations will make better than an excursion rate.

The men who will be invited to season there were 18 bushels of wheat each one will be an acknowledged leader in his line. Isn't it about eral years. time the farmers took a practical hand in helping to solve the prob-

lems that pertain to their own affairs? We hope to have at least 1,000 delegates, associate delegates and

visitors. John M. Stahl, 4328 Langley Ave., Chicago, is Secretary, and will gladly answer any correspondence for the

LAND.

Correspondence of The Progressive Farmer. weather was all right for work, it so well masked by ever so smiling a South. I exclaim in the language of degree. For hundreds of disinterspondingly lessen the vitality of the There are but few farms that have has been rather cool for vegetation top layer of berries. At the least ested eyes must be induced or comthe Breeders' Gazette : "Nature is tree; that the frequent repetition. not a patch overgrown with scrub to make much progress. There is suspicion he dumps a cup, and if indeed kindly disposed toward the pelled to judge color aright and thouyear after year, of such disturbance bushes and small trees which the considerable complaint about potapicked wrong there is the sinner's sands of disinterested fingers coaxed. Southern planters, too many of will necessarily destroy its vitality. farmer has neglected to clear, owing toes rotting, but we think rotten number penciled on the cup. Then whom stand in their own light by bribed or compelled into nimbleness. In former years, orchards were probably to lack of time or dislike to potatoes will be chiefly confined to both, the offender and the derelict Having had to control, or organize persisting in cotton culture to the allowed to "rest" each alternate tackle a hard job or maybe to his manager of that division is brought small patches and that the decrease methods of control, for over one exclusion of everything else." year, and even if the disturbance belief or notion that the ownership in the output on account of the loss to book. thousand pickers at a time, I feel WHY DAIRYING LANGUISHES. had been as great, it was not so often of land imparts respectability, even will not balance the increase in acre-The inspector done, the berries are that I am entitled to speak with A lack of interest in the dairy inand had better time to renew. if untilled. It is often these small age then passed to the packers and caresome confidence. dustry, is possibly due to several Corn planting was delayed at the SHOULD ORCHARDS BE CULTIVATED? tracts, if properly cleared and tilled, fully packed in neat, new orates and causes, some of which may be men-TO INSURE PROPER PICKING. The writer is of the opinion that which will be of profit to the owner. got into the resrigerator car as soon usual planting time, but most farm tioned : The tendency of all crowds is to orchards should not be cultivated If they are not to be cultivated they ers are through now, and cotton as possible. (1) The Southern soil and climate become mobs. The individual loses after they get well into bearing, or should be converted into wood lots. THE COST. planting is in progress. J. T. B. are well suited to the growth of cotthe sense of personal responsibility if they are cultivated the plow should I find that this mode of handling Franklin Williams, Jr., the author Pasquotank Co., N. C. ton, which until recent years has and acts wildly. This tendency is be raised as it approaches near berries costs 10 cents a 32 quart crate of a new farmers' bulletin (No. 150) commanded a very high price, and quick to manifest itself among berry One billion, four hundred and enough to touch the roots. by the time they get into the car. on 'Clearing New Land' states, "if an increased number of cotton mills ninety-seven million dollars is the pickers. The good management of It is claimed that fruits grow Of course this does not cover the he is a benefactor of mankind who has caused a corresponding increase pickers consists in checking and if succeeds in making two blades of farm value accorded Iowa by the larger in orchards which are cultipicking. It could be done in a looser in its demands. vated, but keep better when grown possible reversing this tendency. My census returns. In addition the fashion for 5 cents a crate. My ex grass grow where only one grew be-(2) The Southern people have not endeavor is always to so systematize value of farm implements and ma in those not cultivated. This is perience is that the 5 cents outlay fore, how much more beneficent is been sufficiently trained in the the mission of making grass grow chinery is \$58,000,000 and live stock the picking that no one can entirely pays me about 1,000 per cent., as I reasonable : the growth of all plants science and art of agriculture to am confident that I get at least 50 shirk responsibility for what she or where only bushes were wont to is \$278,000,000. The total value of is more rapid under cultivation, and cause them to realize the important cents per crate more by means of it. he does. (I put she before he because of course develop larger fruits; but farm products for 1899 was \$365,thrive." In my 18 years' experience I have place to which dairying is entitled in women and girls make the best This balletin contains many 000,000-a million dollars for every the texture of the fruit is not as firm seen only one year in which I could Southern husbandy. This statement as in those which take more time for pickers-men and boys the worst.) day in the year .- Guy E. Mitchell. not sell every crate of berries I had. practical hints to farmers who own is substantiated by the Bureau of My fields are divided into five-acre My berries have a distinct reputs development, and this is why they sorub patches for it suggests not only Animal Industry reports which tion on the New York market and We are accused of prejudice against divisions. Each section is placed in keep better. Moreover, the absence different methods of clearing, but show that the States that give always sell above market quotations. North Carolina poety, but here is charge of a manager, who is required of all root hindrance assures a firmer also the meth { of cultivation of this I am told that I am the largest special instruction in the manufacverse from the Fremont Visitor to see that the berries are properly texture. shipper to that market. cleared land as 3 what crops to grow ture of butter and cheese and the that seems to be worth passing picked and promptly sent in out of I write this not to boast, but to KEEPING OFF RABBITS. thereon. sciences of breeding and feeding catshow that thorough system will en sun or rain, as may be, and that the Another correspondent recom "There is no question," states Mr. along: tle, are leading the dairy industry. able a man to maintain quality even "A nigger and a cart on the way. mends the use of grease to keep off plants are not trampled or berries Williams, "about the profitable culwhere large quantities of berries are Reports show that special instruc-Two bags of goanner and a bale of rabbits. This will keep them off of orushed by careless feet. To each livation of new land. The problem handled. tion in dairying is offered in thirty-All dis got ter be paid for 'fore de a certainty, as the rabbit is strictly a hay. section is assigned a carrier, or when O. W. BLACKNALL. is when and how to clear it. When vegetarian; but be careful not to needed two. The duties of the car-Vance Co., N. C. [CONTINUED ON PAGE 8.] jedgment day." once the clearing has been com.

On the farm of the Oklahoma Agri cultural Experiment Station is an acre that has been in wheat for eight years. It had never been manured. In the fall of 1898 one half of the acre was manured at the rate of 15 tons per acre and the other was left unmanured. When the crop was harvested, in the summer of 1899, the manured piece yielded at the by the lower roots or those near the

rate of 30 bushels per acre and the -unmanured yielded but 12. bushels per acre. An increase of 18 bushels of wheat was secured the first year indication that the other passenger from an application of 15 tons of stable manure. If all of the effect of the manure were exhausted the first

take part in the program will be the to pay for hauling about 10 loads of choicest that can be selected, and manure. But the effect is lasting and extends through a period of sev

> Here is a feasible plan to increase the wheat crop: Put every bit of manure obtainable into the soil. Eighteen hundred bushels of wheat will pay for one man and team hauling manure for 450 days, and the

profit is directly in sight.

FARM NOTES FROM PASQUOTANK.

to note the numbers on the cups and Congress. Correspondence of The Progressive Farmer. sites for successful dairying is a confruit are formed the previous season ; his fruit. J. H. REYNOLDS, Treas The early part of spring was such see who is picking well, who ill. Of It is no easy matter to insure the tinuous supply of food ; hence when but usually after the trees drop their Adrian, Mich. that many farmers were heard course it is not practicable to empty proper picking and packing of even I consider the vast amount of meadow fruit; hence, any late disturbance of grumbling at the weather, but the every cup or basket of berries. But hay, corn, cow peas, clover, rye, a small acreage. To handle a large the root system must interfere with A NEW BULLETIN, "CLEARING NEW last month has been fine for work. experience soon enables him to de acreage requires not only industry vetch, lucerne, alfalfa and cottonthe development of the fruit buds very little rain and cool. While the teot scamped work even when ever and skill, but diplomacy in no small seed which might be produced in the for the succeeding crop, and corre-

THE TAP ROOT.

It is claimed by some that the longevity of a tree depends on the tap root, that these support the woody parts and the surface roots, the fruit and foliage; but I never saw a tap root of a tree of much size or age that had many fibrous roots such as are used by the trees to take up food. Hence, I conclude that these tap roots are mainly there to give strength to the tree to enable it to withstand storms, and that the fibrous roots near and just below the surface take up the greater part of the food upon which the tree subsists, and the various parts have no choice as to whether it is taken up

surface. It is food they want, and they do not fuss over the route over which it comes.

INJURING THE ROOTS.

Now if this position is true, just in the proportion that you injure or distend these surface roots, you out off the tree's chance for food, so it can easily be seen that a tree can be starved to death or so nearly so as to while.

render it unfruitful. Most farms are cultivated by careless or indifferent plowmen, and the results complained of usually follow.

Harry Farmer admits that when crops are grown in orchards which are laid by early the trees bear better and longer; of course, because the for overcoming it greater.

The buds which make this year's

the berry up as it is dropped in the ity of trees. The leaf prepares the cup; to fill the cups full, slightly food for the tree as the stomach does heaping the centre. for animals, hence any impairment

of the leaf necessarily outs off the ONE CENTRAL PACKING PLACE. Even at the expense of taking the supply of food, without which neither berries a considerable distance it is vegetable nor animal life can be better to have one central packing maintained. There is a subtleness about the ravages of this class of place. This should be of ample size to hold orates for at least one day's diseases that causes them to be overpacking and to give good room for looked, and therefore they have packing. My packing is done under time to get a stronger hold so the large cheaply-built houses, ceninjury from such cause is far greater trally located and arranged with shelves under the windows for The bark of trees, on both body empty cups. The windows extend and limb, performs a vital function pretty much all around the house. too, just as does the skin on animals. The window sill consists also of a and when diseased, harmful results shelf or counter on which the cups of berries can be set and counted when necessary. But most of the berries are brought directly into the house by the carriers, who "tote" in a hand carrier made like a litter, only that it is four stories high. Each carrier holds 96 quart cups,

> which fills three 32 quart crates. The tickets are counted 32 in a bundle, with a rubber band around each bundle. The tickets are all in charge of a man stationed at the packing house. His business is to issue to each pair of "toters" three packages, 96 tickets, and to see that they bring in berries to correspond.

THE INSPECTOR.

But the most important man of all is the inspector. He, too, is stationed at the packing house. His duties are to inspect every cup as it comes in,

SOUTHERN COWS ARE POOR GRADE.

In addition to the small number of dairy cows kept in the Southern States which were taken for comparison, their cows are less valuable than the former. The census report heretofore mentioned shows that the value of the dairy cow of Iowa is \$32.56; of Illinois, \$34 02; and of Wisconsin, \$29.36; while that of North Carolina is only \$18 98, South Carolina, \$20.06, and Florida, \$13.31.

This great difference in the distribution of dairy cows for the manufacture of butter and cheese is not due altogether to climatic conditions, for it is generally conceded that good butter and cheese can be made in nearly all parts of the United States. Furthermore, the winters are shorter here than they are in New York, Iowa, Illinois, Pennsylvania, Wisconsin, Minnesota, Ohio and other States where dairying has become one of the leading agricultural interests.

THE SOUTH ADAPTED TO DAIRYING. One of the most important requi-

To begin with, no fruit that grows pays better returns for good handling and neat, tasty packing. 'The æsthetic element enters largely in the sale of the strawberry. People buy them as much because they are beautiful as because they please the palate. Whether the grower shall root disturbance is less and the time lose money or make a handsome profit depends fully as much upon the handling as upon the quality of

PICKING AND MARKETING THE STRAW BERRY.

WM. A. BARBREY.

Correspondence of The Progressive Farmer.

than is usually supposed.

Sampson Co., N. C.

The strawborry business of this country has now become so great

follow.

that practical directions to convert it into money will well be worth