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

Vol. 16.

Agriculture.

THE BEET CROP-STOCK FARMS NEEDED.

Correspondence of The Progressive Farmer.

The beet crop is one of much value and can be grown very cheaply. grow them to perfection here. And to keep in winter; they need no profitable industry. shelter. Do not put them in bulk, not freeze.

NEWS OF THE FARMING WORLD. Our Washington Correspondent Tells What Progress is Being Made in the Various

Sections in the Country. Correspondence of The Progressive Farmer. The Fish Commission sees no boring farmers say that their wheat, reason why a farmer should not raise Sand or clay land wien made rich his own fish as well as his own chickens or pork, and believes that the is there a better feed for sheep and cultivation of fish for market in the monly used in connection with a cows in winter? They are not hard interior will soon become a fixed and

FISH FARMING IS POSSIBLE

and the Government Fish Commis. clining. But he knows not the cause We have fine lands in North Caro- sion will furnish a good supply to thereof. lina for growing our own supplies, start with. Fish ponds can be and yet we are buying hay and beef created in villages and even cities which there are actually only a few from the North and West. Young wherever there is running water, which have been bred up during the man, start you a stock farm, begin- and the Commissioner believes it to past 30 years, (notwithstanding the ning at the ground with clover, be practicable for every housewife host of so-called wonderful novelties alfalfa, orchard and timothy grasses. to raise her own fish. It does not annually introduced,) have been ar-Then come on with your calves, require a large area, although a fish tificially created, and adapted to cows and sheep. But one of the must have a certain number of cubic man's needs and fancies, and are mistakes is that what you want, you feet of water, just as a human being artificially maintained by careful want now. The vast growth of fac- must have a sufficient amount of air breeders. When the seed of a new tories and towns and cities in our for sustenance, but this is easily dominant or cosmopolitan highly State is calling for table supplies at regulated. He claims that it is no bred variety of corn first goes from home. When our tables are well more difficult to raise fish than it is its breeder with fixity of type, and supplied with home products, then to raise melons or strawberries, and harmonic, flexible, and prepotent orthe poor children can study books that the farmer must use only the ganization, it easily for a time, 5 or in the free schools. The grasses and same care and attention that he ap. 6 years perhaps, buoyantly adapts

Raleigh, N. C., June 25, 1901.

WHY THE CORN PLANT DEGENERATES.

Correspondence of The Progressive Farmer.

Almost every farmer reader of this journal, has often heard neighor oats, or corn, as the case may have been, was "running out."

The term "running out" is comvariety which is losing its productiveness. The average farmer knows that his corn is "running out" when but put on plenty of dirt so they will wherever there is a pond or a stream, its yield and quality are annually de-

Our improved breeds of corn, of

Most especially is this the case if

become still more victorious when judicious changes of seed are made to various soils and climes, and always beat the natives. In fact, changes in the conditions of life give greatly increased yields to all A Few Words of History-American Meriorganic beings. The writer believes that the laws of plant breeding and seed changing will be much better

understood within the next 25 years, and that this will result in a surprising increase in the average yield of all of our farm and garden crops. J. C. SUFFERN Platt Co., Ill.

IMPROVING THE POOR FIELDS.

Correspondence of The Progressive Farmer. Every season attempts should be made to improve some portion of the highest standard of productivity. ing sheep has been a prominent in- not be grown on a little meanly-There are crops which must be raised dustry of the modern nations; most formed sheep.

tion.

Live Stock and Dairy. SHEEP IN THE SOUTH. I.

nos-Importations From Spain-The Writer's Experience-Mutton Breeds-Importations From Great Britain-The St. Louis World's Exhibition.

Correspondence of The Progressive Farmer. to the beginning of recorded time, we find that keeping sheep was one lem. It surely is practicable. Howof the principal and most honorable ever, such improved sheep should industrial occupations of mankind. not and cannot usurp the essential "Abel was a keeper of sheep." So place of the mutton and lustrous was Abraham, Job and David. The coarse wool breeds. Nevertheless, Egyptians, the Persians and the Ro- it is not true that fine wool cannot mans kept sheep. The lamb has be grown on a large squarely built been used as an emblem of harmless- muscular sheep, any more than that farm so that the soil will show the ness, meekness and purity. Keep it is not true that coarse wool can-

on every farm which leave the soil notably, Spain, Germany, France much poorer in fertility when they and Great Britain. When Spain was during the last three hundred years, are harvested. Systems of rotation in the height of her glory, her flocks sheep have been kept and improved may tend to counteract this evil, of excellent Merino sheep were large- to produce meat or mutton, as the and keep the general average of the ly owned by the nobility and the first prime object, and secondly, but fertility good, but in spite of this crown, and the industry was care- not less successfully, for the producthere will be a gradual decline un- fully protected and promoted by the tion of long lustrous combing wool, less special efforts are directed to- government. So was it in Saxony not the finest in quality; hence, the certain fields or a field each year, America and Mexico received the English, Scotch and Irish people. and making a point to raise the start of their most numerous flocks. The divergence of the present sheep standard of the fertility of that sec- It was in 1801-2 and subsequent years of that nation from the original type By thus changing off one goes | that the United States received im- of several hundred years ago is fully over the whole farm in the course of ports of Merino sheep from the noble as marked and striking as that of a few years and makes the soil all of flocks of Spain, the blood of which the Merinos from their original type. Now a rotation of crops in which far the larger part of the sheep of long the praise for the greater part clover comes for its share may not the United States. Later on consid- of these improvements for mutton necessarily keep the soil in a high erable importations from Saxony, and for coarse combing wool; alstate of efficiency. This can be seen and still later from France, were in- though their American cousins, both in soils that have become clover sick, troduced into American flocks. These in the United States and in Canada, and show every sign of degeneracy latter were respectively known as are now producing animals for the simply because the soil is clogged Saxon and French Merinos, being with undigested plant or green ma- originally Spanish Merinos. Hownura. Now, it is impossible for the ever, some of the original Spanish provements with unabated zeal and soil to improve when such a condi- Merinos were kept pure by their tion prevails The soil is fed to over- | breeders, and wonderfully improved, flowing, but it requires something both in form of carcass and in weight cially in the last half of it, importathat will help it to digest what it of fleece. So marked and wellestab- tions of these mutton sheep by the To do this the land needs regular in the past fifty years, in the United Scotch flocks have been frequent. treatment once in a few years, much States, and over the world, this The selections were often made from as a physician would treat a patient. stock of sheep has been known as the most perfect types of their best the

wool-producing animal. While this is true, the writer often queried in his mind, whether or not, and has to a degree demonstrated in practice that there is an improvement possible for the Merino, in which it can be made to attain most successful mutton qualities, while not losing its superiority as a fine wool sheep. The successful improvement by many Looking backward through history breeders of these sheep in recent years seems to be solving this prob-

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IN GREAT BRITAIN, greatly developed improvement of It was from Spain that South this sheep for these purposes by the until more recently constituted by To the breeders of Great Britain besame purposes from their stock, and carrying onward and upward the imunparalleled success. During the last century, and espelished was this improvement, that Americans from the English and flocks, both for mutton and for long lustrous combing wool. The improvements of the stock of these importations have kept pace in every way with those made by any of the flocks of Europe. In fact, it is claimed that if there were to be a competition of sheep from all parts of the world, that those from the United States would lead in the awards of merit and likely carry off more first prizes than would those from any other nation. The sheep breeders and wool growers of the United States are not satisfied to occupy a second or third place from the front in the science and art of their occupation. "Excelsior'' is their motto and they are persistent in securing a place in the world's line with the foremost in progress, if not in advance of it. It remains to be seen whether the managers of the St. Louis World's Exhibition for 1903 shall succeed in bringing together such an exhibit from the flocks of the most success-Hammond flock of Vermont. He If they do, it will be an exhibit that ful breeders of sheep in all nations. has never yet been fully attained and medals from State Fairs and SAMUEL ARCHER. from the Centennial Exposition at McDowell Co., N. C. Philadelphia in 1876, for superior THE CONFORMATION OF THE DAIRY

stock build up and enrich; cotton plies to wheat, corn, cotton, tobacco, itself to various soils and climates. and tobacco prepare the land to chicken or pork.

wash away and leave the poor hills The construction of a fresh water the seed has been transported from his land from the washes.

R. R. MOORE. Guilford Co., N. C.

FARMERS' CHEAP FERTILIZERS.

An Illinois Farmer Thinks the Cow Pea Is Unequalled.

Correspondence of The Progressive Farmer.

a cheap fertilizer. When you get a ning stream wherever possible, and other words, "run out." poor stand of clover it is not cheap, this can be done by arranging wire When a wellbred corn first goes it a point to use it. But the cheap. in the country. ness is one of relative importance, majority of cases.

Personally, I think cow peas, where bushels of it they can be raised, is a cheaper fer tizer, likely to give the best all-round satisfaction. We all talked about price than we get for our wheat it becomes susceptible to the attacks the value of clover for this purpose abroad. We mix it with our own of parasitic fungoid diseases, and to before we knew much about cow wheat, thus producing an inferior the uncongenial action of adverse peas. Now our ideas and methods quality of macaroni and also import chemical soil constituents. These are being revolutionized. We are 15,000,000 pounds of what is useful and other causes (causes often com raising more cow peas and less clover food. Professor M. A. Carleton, the bined with lack of care in what may proportionately. And yet every now wheat expert of the Department of be termed breeding,) hurry it with and then you will hear some farmer Agriculture, says that macaroni great rapidity on the down grade to say that cow peas are not raised in wheat can be grown with great profit inferiority, where it becomes exthe North by intelligent farmers. I in many of the Western States, tinct, because unprofitable to cultiheard it the other day from an other. especially Texas and other South- vate. wise good farmer. No, he was not western States. It is one of the best There is also another cause of the otherwise a good farmer though ap- drought resisting wheats known, deterioration of our cultivated parently successful. In the same and can be grown in localities where plants : all living vegetation naturbreath he said he never raised en- the rainfall does not exceed ten ally feeds on the constituents of the silage, and didn't think it was much inches annually. For this reason it air, soil, and water; and on the botter for the stock than so much should prove especially valuable in scarcity or abundance of congenial stale molasses. Now, the opinion of Texas. Experiments already made elements in any given locality desuch a man is hardly worth quoting, there have been very encouraging. pends the organic vigor of the plant. everything modern. in the North, and they are rapidly becoming the farmer's cheap fertilizer. They are crowding out clover in this respect, and they will even. tually make our farming far more profitable. Cow peas furnish nearly twice as much forage for live stock he clover, and when harvested they leave the field in better condition for other crops. Moreover cow peas will grow on land which is unsuitable to clover, and where many grain crops only sparingly grow. Stock like cow peas, and will some times eat them in preference to the best Gover hay, and I think they will show up as good results from any point of view as a continuous food. W. E. E.

in gullies. He is a builder that saves fish pond involves only a little dig. the locality of the plant's greatest ging, the erection of wire screens to perfection. Not so with many of prevent the fish from escaping and a the so-called wonderful corn novel-

supply of vegetable and animal life ties which evidently have sprung to furnish the fish with food. It is from old degenerate sorts, which are scarcely practicable to furnish fish annually introduced. Owing to these

with artificial food, and plant life is serious defects they cannot be rated much more desirable. After the as cosmopolitan varieties. And when pond has been made and stocked transported to various soils and Clover has long stood at the head with the right varieties of fish it climates, their constitutions receive of the list of cheap fertilizers for will require about the same amount so great a shock by the operation of farmers, but its cheapness is some of care and attention as a strawberry local endemic conditions, that they times a disputed point. I have seen patch or an onion bed. It is, of in a year or two, break up into a cases where clover was anything but course, much better to utilize a run- multitude of degenerate types; in

but expensive, far more so than if nets with fine meshes to prevent the from its breeder with a strongly one bought commercial fertilizers fish from escaping. In the cold, prepotent, vigorous, flexible organoutright. Clover has its purpose in clear waters of the North trout, ization, it for a time easily combats the farm economy, and if properly bass, perch and other varieties will and overcomes the various adverse used it does well. But not too much thrive, and the Fish Commissioner endemic influences which assail it. value should be set by it. If the at Washington is always glad to But after two or three years of dis land is right for clover, and one can stock private fish ponds and furnish continued breeding, which is generget a good stand, it is a cheap fertili. instructions for farming them. Suc- ally its fate in the hands of the averzer, and every farmer should make cess has been attained at many places age farmer, its organization becomes weaker and it readily succumbs to Most farmers will be surprised to the degrading influences of interand it cannot be said to be the best learn that in spite of our enormous crossing (through the agency of and cheapest fertilizer even in the export of wheat, we are compelled to bees, insects, birds, and winds) with import hundreds of thousands of the degenerate varieties which usually abound in the vicinity of the home of its adaptation. As its For this wheat we pay a higher organism continues to grow weaker,

of farming can do this. It does not require expert knowledge, nor technical skill, but simple, ordinary common sense, and then the disposition to remedy the trouble. JAMES S. WILSON. NORTH CAROLINA FARMING Maxton Scottish Chief: It is estimated by the farmers of this sec its agricultural explorer, Prof. D. G. degree of perfection, by continued iton, that the cotton crop has been Your Southern people have the Fairchild, who is now travelling in good breeding, it will rapidly "backcut short at least 25 per cent by the all antage of us, but cow peas are Algeria, to procure several hundred slide," unless it continues to pro- heavy rains and continued wet 1878. During these years he became gress under the same good breeding weather. Fayetteville Observer : During the month of May the Southern Express Company shipped from Fayetteville stand still. It must either advance 5,712 bushels of peas.

ward the improvement of the soil. and in France.

This can best be done by selecting a high standard.

contains.

He examines a sick man's pulse, looks at his tongue, studies his complexion and tries to find some organ out of order. Then he applies the remedy accordingly. Once every few years we can examine a section of the farm in the same way. What is the matter with the soil? Has it been fed plant food in the shape of green manure too steadily and continuously? Then it may require the phosphates, lime and other mineral elements to counteract this condition. It may be it has been stimu lated too continuously with mineral fertilizers, and it is in need of green food. Again it may be sour, and requires rectifying with lime or salt. There are a dozen and one conditions that the soil may be in which can be remedied only by a careful study. The farmer with a fair intelligence

AMERICAN MERINO.

The greatest achievement ever acquired in the world in an equal length of time, as to growth of fleece in quantity and quality, has been astained with these American Merinos. Single sheep have been authoritatively known to have produced over nine pounds of fine wool, of twelve months' growth, scoured clean ready for the cards. These same fleeces would weigh twenty to thirty, and even over forty pounds to the fleece, "weighed in the grease and dirt,' as it came from the sheep's back.

From small boyhood when he was just able to carry a lamb, about 1855, on for thirty years thereafter, the writer of this cared for lambs and sheep of his father's large flock of sheep, mainly in Brooke county, Vir ginia, and for his own. However, for twenty years of that time he was a breeder in West Virginia and Missouri, of the pure blood American Merinos, selected and purchased by him in 1865, from the celebrated is yet in possession of diplomas

Wayne Co., Ill.

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except to show that some are so With the object of encouraging the It has often been and is still being thoroughly opposed to any innova- growth of the wheat, the Depart- demonstrated that when a variety of tion that they will shut their eyes to ment of Agriculture has instructed plant has been developed to a high

Falsed more and more every season bushels of the Algerian macaroni wheat, which will be shipped to the pressure which has developed it. Department and distributed in the This is in accordance wirh an inflexarid and semi-arid regions of the ible law of nature, that nothing can A. B. MARRIOTT. West. Washington, D. C.

FOR USE IN MAKING MACARONI.

TO NON-SUBSCRIBERS

If the person to whom this copy of comes so fitted to local endemic con-The Progressive Farmer is sent is not a subscriber, this number is sent as a sample, as an invitation to subscribe. into a state of laziness and its non-The small sum of two cents per week progressive adjustments can only be will make it a regular visitor to broken up by removing it to differyour home-three months, 25 cents; ent soils and climates, where prosix months, 50 cents; one year, \$1. gressive variations begin anew. two consecutive days of good straw-And any Carolina or Tennessee far- Chas. Darwin, the great naturalist, berry weather this season, but in mer subscribing now who feels at demonstrated to the world that spite of hail and rain our growers expiration of subscrption that he has highly bred, dominant varieties of have shipped almost as many crates not received full value, may have his cereals, whose organic relations are as last year; the prices have, as a money back for the asking.

or deteriorate. Any variety of corn which may be grown for several years in any particular locality, be-

ditions that progressive variations still in first hands between four and cease to occur. It has then fallen five thousand bales. If correct,

harmonious, prepotent, and flexible, rule, been satisfactory."

Merino sheep, and the same for wool from his Merino flock, exhibited at the Paris Exposition Universelle, in

Tarbo. o Southerner : Some enterprising paper has put the number of bales of cotton in North Carolina about half of this is in this county.

Summing up the strawberry season, the Mt. Olive Advertiser savs: "There has never been more than

familiar with all sheep history; with the science of breeding and improvement of sheep, and with their management in small flocks in the East-Missouri, in the grazing regions of Texas, on the Western plains and on the mountains, in all of which business, the development of his own flock and of those under his care were very successful in every way with his practical management.

In all the world's sheep history down to the last of the nineteenth century there can be no brighter nor more illustriously successful page, written for the same length of time, than that which shall truthfully describe the great development of the

American Merino, especially as a

COW.

BY PROF. ANDREW M. SOULE.

An address delivered before the Rural Science Jub of the University of Tennessee:

It does not take a great deal of equipment to develop the subject of stock-judging, and yet special trainern States, and with large flocks in ing along this line is highly important to every agricultural student. In college work, where you take a regnlar agricultural course, we commence with the score-card. On each card we note systematically the characteristics of several individuals until we become thoroughly familiar with the location, shape and form sought in the respective points of the dairy animal's anatomy.

> After you have passed the "embryonic" stage of the score-card you come to the stage of "expert judging," where you will have probably

> > CONTINUED ON PAGE 8.