Raleigh, N. C., July 9, 1901.

Sections of the Country. Correspondence of The Progressive Farmer,

manifold USES TO WHICH CORN CAN BE PUT. subject, a trip through the plant me in New York City." It is sugdivision of the Agricultural Depart- gested that if the United States ment will be a revelation. Possibly would admit free of duty, or at least, kind of soil found in the country. the most surprising exhibit is a bar at a lower tax than the present Only a few barren soils refuse to proof what appears to be rubber pos- tariff, macaroni made from Amerisessing all the qualities of that ar- can wheat, a market for our wheat ticle. Nevertheless it was made of would be opened in competition with the poorest sandy soil can be made corn, and it is said the makers of that of Russia and the East. this grain, which are used as substi- A Guilford Trucker Gives His Experience

this commodity are successfully competing with the natural product. Samples of varnish made from corn are on exhibition. Oils made from tutes for olive and peanut oils, are also there. The color of the corn oil is identical with the olive oil, and it so closely resembles the imported product it would trouble an expert to tell the difference between them. This oil now has a large sale. There are a large number of samples of celulose, used to prevent the sinking of ships. Paper made from corn, grape fruit, corn flour, which is as white as wheat flour, and which is produced by thousands of tons, as well as glucose, used for so many purposes, are also found in this exhibit. In fact the list of products of corn is so long it would require considerable space to enumerate them. Yet, according to the officers of the Department, corn has by no means reached its top notch, and experiments are now being conducted with u view of doubling, if possible, its production per acre. These experiments are being made by Herbert J. Webster, under the supervision of Prof. Galloway, Chief of the Plant Division, and consist of cross-breeding, from which wonderful results are expected, demonstrating to the farmers the great importance of selecting only the best stock for planting. By the cross-breeding process the nitrogen contents of the corn will be increased, and the care in selecting stock for planting will be instrumental in bringing about a tremendous yield. Already 10,000 specimens of hybrids have been grown, and some of these are promising, although it will be nearly two years before practical demonstrations can be given, and not until that time will the Department be in a position to furnish samples. The Department is, however, prepared to give some wholesome advice to the farmers with regard to producing an increased yield next year. In a general way this advice is to select proper seed for planting, which have yielding qualities. The way to make these selections is to go through the corn field during the fall and choose the best stalks, not merely those that have the largest ears, but those with the most ears and those most commendable in other respects. Most larmers now merely select the largest cars from their cribs when the time or planting comes. Among the 1 .000 hybrids are 200 new and disand varieties. Nothing like them has ever been produced, and Secretary Wilson is expecting great rewills. Tests will be made to deto some which of the hybrids will In the best crops, when samples will be sent throughout the country the farmers see for themselves

what the Department has accomplened for their benefit.

are has been trying usible, believing it necessary to server.

use a mixture of either Italian and Russian wheat, or of wheat from the Orient and Tunis. I now put in your possession the accomplished fact, sandy land he makes a mistake to atwhich will serve to open up in Italy a wide market for American wheat. America imports macaroni from Few people have any idea of the Italy, mostly from this district. The wheat used, samples of which are bere inclosed, is known as 'unfal-To such as are interested in the cated wheat, and was purchased by to the soil. In this we merely follow

Washington, D. C. THE GRASSES AND CLOVER

A. B. Marriott.

With Them-Watch Home Markets. Correspondence of The Progressive Farmer,

It is well to know the natural productions of the lands to be culti vated. North Carolina has a great variety of soil and climate. What we of the uplands of the State can grow to perfection may not be a paying crop in the East. We once thought that only bottom lands could be properly called meadow land, but have never seen hills too high for the fine grasess where the soils and clay were of the proper consistency. We have some grasses that have asserted their claims for which I have utter contempt: one is the Bermuda, the other the Johnson grass. Both may be splendid for grazing or to stop washes. The roots are hard to displace.

All sections and localities more or less are fine for the clay pea, when planted at the proper season, especially not too early. Then follow with the clover. It takes rich land to grow clover and timothy. I sow both on the same land at the same time and a bushel of oats to the acre. The oats and clover are moved off in May or the early days of June, so the clover and grass can take root. The clover may be mowed again in early fall so two crops are gathered the same year, The orchard grass is treated the same way, herds' or red top and good crops of clover for two years; after this the grasses take possession. If there be poor spots, manure may be added at any time. Have experimented with these crops for about forty years and have had no reason to complain with the crop. At first they gave much anxiety, but of late not so much. Every man has his notions about curing. One thing I had to learn : never let clover mold ; had it to lay on the ground over one week and then stock are it clean and did well as any. When North Carolina turns to hay and stock, she will become a thrifty State and the boys will stay on the farms where all the work is done by machinery. I am not surprised at any intelligent boy leaving the tobacco worm and sucker and cotton bolls. Give him plenty of machinery and stock at home and there is something to stay for.

In the earlier days of North Carolina beef was bought and sold at three or four cents and the price of fine beef has not gone up and down like cotton. To our shame much of the beef comes to us at fifteen cents per pound. Home supplies is what we should turn to if we would properly respect ourselves.

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

ADAPTING CROPS TO SOIL.

Correspondence of The Progressive Farmer. When a man owns a farm of very tempt to raise crops which do best on heavy fertile soils, for in so doing he is handicapped from the start and will undoubtedly fail to realize his expectations. In farming the very first step is to try to adapt the crops nature's example. There are crops which will do well on nearly every duce any kind of crops. If there is a proper amount of moisture even to yield some paying crop.

Our corn requires rich, heavy soil, and so do most of our other heavy crops, and such cereals should be raised only on that kind of land. It requires only a little study and experiment to find out pretty definitely what crops best succed on your farm. Farms that have been declared run down and too sandy to yield any crop profitably have been made paying investments by producing crops of strawberries, asparagus and onions. All that was required was the right sort of man to discover the crop adapted to the soil.

The question of enriching the soil should not of course be neglected even though a certain crop has been found to thrive on it. This is too often a short-sighted mistake which sooner or later manifests itself in an unpleasant way. If it is a sandy soil there is something in it that supplies the strawberries, asparagus or other crop with nourishment. What is it that the plants find in the soil to make them grow? This can be found out by ascertaining the special needs of the particular crop. If it is nitrogen, potash, or phosphates a systematic feeding of the soil and crops with this particular form of fertilizer should be made. In this way the soil will not be robbed. A great many sandy and loose, porous soils permit nearly all fertility to leach through, and if this leak were stopped in some way there would be better results obtained with the crops. Such soils may require commercial fertilizers in which the mineral elements predominate, but at the same time they need coarse plant food or barn yard manure in order to improve the mechanical conditions of the soil. Some times a liberal scattering of forest leaves over the land, and plowing under in the fall, will do more good than anything else. These leaves will close up many of the holes, and at the same time add some plant food to the soil. Coarse straw and barn yard liter perform the same service.

HARRY FARMER'S TALKS.

XXXIII.

Correspondence of The Progressive Farmer. The cotton crop in Columbus county is in bad shape, and this spring the grass so that the land will be al- each .- G. M. Gowell. most entirely free from it the next year. As good as the season has muda, nut grass, and several kinds here. - Col. Olds.

that we do not know the name of. Geese will not eat weeds excepting young cockle burs. If cotton is plowed regularly one goose to the acre is sufficient to eat the grass left among the cotton in an average sea-

Now is a good time to castrate pigs which are expected to be fattened early in the fall. Our plan is never to let the males get more than two or three months old. Always do such work early in the morning. We do not lose one-half of one per cent. the human intelligence with its young ewes of the coming flock may down as possible so that the blood, matter to take hold of a flock and breed these improved ewes and their side; second, sewing the entrails (we tice: have seen several die from this cause); third, sewing too tight: you | points out the ways of the sheep busi- | ter. should simply draw the edges to- ness; while the practitioner too often gether. Nature has provided the blunders along and some times sneers pends on the size of the farm and animal creation with something like at the scientist saying, "his book the other kinds of industry followed. glue which causes the sides of a cut | theory plans won't work out." There on it. Take for example a quarter to stick together if they come in con- is one thing that both simple and section of land, 160 acres, where cottact. Always use flax thread as it learned should well understand and ton growing constitutes about onewill rot much quicker than cotton.

deal of meat by not attending to things else, has a perfect law that half. Fifty head of ewes would be a such work early. Our pigs always will thoroughly operate its own per- fair number to start with, and each grow faster after the operation. We fections, regardless of all conditions. fall sales should be made so as to cut do not want any particular time of | Conditions will adjust themselves to | the flock down to that number of the moon, but prefer a damp to dry scientific law when it is fully under- breeding ewes each winter. The weather, as hogs do better when stood. The practical shepherd should best plan by which to dispose of the they can have a plenty of water to know the law as it relates to all parts | weathers and surplus as soon as the

your hogs, commence feeding at ing so success will surely follow. surplus off to the mutton market once. While the weather is warm it | Furthermore, there never was suc- every winter. It is very profitable animals, it may require almost double the hand. the feed to do the same work.

HARRY FARMER. Columbus Co., N. C.

RAPE A NATURAL SHEEP FOOD.

Sow in July for late feed. After the United States or in France. eat 20 pounds per day. There is no and Missouri, may as readily be aclarge fields were plowed up and feed equal to rape, and it can be complished in North Carolina and Merino ram may be had at not over planted in corn. The excessive rains grown at one-half the expense of any other portions of the South.

been for grass, we have a small patch esting interview to day with Botan- ably kept for either purpose, and yet Mr. J. A. McAllister, of this town, which is considered very "grassy" ist Hyams, who until three weeks no breed but that the purpose of its says that he has solved the forage with about three geese to the acre ago was one of the faculty of the lesser usefulness makes it more While the Department of Agricul- problem for the farmers of this com- and the cotton is as clean of grass as State Agricultural and Mechanical profitable when added to its greater munity. He sowed one half acre in any one could wish. An average College. Mr. Hyams says the peo- one. INTROPULE "MACARONI" WHEAT outs and Canada field peas last No year two geese to the acre is suffi- ple in central and eastern North As a wool-producing animal, espeto general cultivation in the United vember. He cut it a few days ago cient. Goslings will eat more grass Carolina pay hardly any attention to cially for large flocks, the Merino, ates, certain Italians have been and it yielded 6,500 pounds of forage. than old geese. As a farmer said to the gathering of medicinal herbs, with its grades easily stands at the raped in demonstrating that we As the weather looked somewhat the writer some time ago, a goose roots and barks. He says the bark head of the list. If wool is to be the points, that are so carefully considnearly raise grades capable for use like rain he hauled it in partially will eat grass in proportion to the of the roots of the cotton plant is prime object of the farmer or planter what purpose. Consul Hayden green, but allowing 2,000 pounds for amount of corn fed—the more corn worth \$25 to the acre; in other words it would be well to start with a good Trum Castellamare specimens imperfect curing, which would be an the more grass eaten. A fence from as much as the cotton, and that the stock or blood selected from one or progressive improvement at great macoroni made from American excessive allowance, and he has 4,500 2 to 2% feet high is sufficient to con- Statesville people who deal in this another of the American Merino at, together with a letter from pounds of good forage from half an fine them. They require some shade are unable to supply the demand by indisor in which he says: "I acre. Cattle and horses cat it as and a plenty of drinking water-not a million pounds. He says there is the pure or very high grades cannot home with the result of my ex- well, if not better, than any other a place to bathe in as people formerly not a dye-stuff plant in this State. be had, then good common ewes of ments in producing macaroni forage. Mr. McAllister would be thought, but enough to drink. The About all the peppermint grown in any breed or the woods breed may an American wheat. Up to this glad to furnish any information to following are the grasses which the United States comes from about be had and by using large wellwe, I am sure no Italian manufac. any one interested in raising forage. writer has noticed them eating: a third of the State of Michigan. It formed, heavy-fleeced Merino rams, The macaroni thought it was -Lumberton Cor. Charlotte Ob- Crab grass, red stem, cane or Ber- can be easily and profitably grown a good flock is soon bred up. If the

Live Stock and Dairy

SHEEP IN THE SOUTH.

III.

Science and Practice-A Little Story-Wool for Wool-The Merino and Its Grades-Stall Feeding the Surplus-Sheep Manure-A Buzzing Fact-Blooded Stock Rams-Four Cardinal Points.

Correspondence of The Progressive Farmer. It is one thing to have sheep husbandry scientifically pictured out to the ewes each year so that all the Nearly all that die from the opera- vicissitudes, its losses and profits be uniform in characteristics which tion are performed on in the after- clearly shown up to the common un- is a very important point in future noon. In operating cut just as low derstanding; while it is quite another usefulness. Persistently continue to matter, etc., can drip out; the live with them daily, following them offspring to large heavy-fleeced Mewounds will heal more rapidly. It through wet weather and dry, warm rino. The result will be an ideal is necessary to wait until the sows and cold, balmy breeze and blizzard, flock of grade sheep for wool, the get a little older. The cause of through fortune and misfortune, weathers and old sheep of which can trouble with them is: first, in sewing high markets, and low ones, to the be fattened and sold for mutton if not catching the thin skin on the in- final goal of crowned success in prac. not otherwise. Breeding pure bloods

A great many farmers loose a great | bandry, as well as the science of all other things constitute the other If you would have success with tions of his business to suit; in do- closely confine and stall feed all the will not cost anything to keep the cess attained in sheep breeding and to do so. In the spring they can be animals warm and all the feed can wool growing without theories and sold to be delivered with the wool be used to make meat, but if you plans being first in the head before off, which brings cash also. Thus wait until cold weather to fatten being practically carried out with the farmer provides a market at

story. When the writer first moved that derived from their manure, for his high bred flock from West Vir- the manure from a stall-fed lot of ginia to Missouri, one of Missouri's sheep, especially where cotton seed Washington Progress: The pota- eminent statesmen in looking over meal is largely fed, is a fertilizer of to season has about closed and good | the sheep said: "Many of our farm- | very great value when properly saved. prices have been realized. The crop ers here in Missouri keep sheep and and composted. More about this was short, but the farmers have they get fat in summer. To be sure when we reach a chapter on sheep made money from it. — The little they get poor in winter, but in the manure as a fertilizer. town of Aurora shipped this year spring when their wool gets loose, about 23,000 barrels of potatoes and they chase them through the thorns the acreage was short and the crop and briers which pull the fleece off. was not an average one. At least | That's the way they shear them and \$45,000 has been distributed in that the children follow after and gather section by this crop. South Creek wool from the bushes. They say it and other nearby points made large is a profitable business, and no doubt, but with your scientific breeding and improved methods of keeping, your business will be a success; so we wel-Where turnips will grow, rape will come you to the State." Within six for that price with wool on at the thrive; it will come up in 48 hours, years after that time it was proved and to kill weeds harrow well after with that flock that intelligently it is up two weeks; after that it will bred sheep, fed on Missouri grown the fifty head selected each fall to kill weeds itself. In fact, it will grass and grain, could successfully form the basis of the next year's clear a piece of land of witch grass. compete with any other sheep in the flock

sheep are used to it, a wether will What has been done in Virginia with very common ewes at \$2 a head.

and the scarcity of hoe hands have other. It will produce in rich land The two great purposes in sheep cluded, and at less if a good blooded been the cause. Have we not reached | 30 tons to the acre and will grow so | husbandry are wool and mutton or the limit of production? There will high that a Jersey cow could not be their fleece and their flesh. I will have to be changes made in the cul- seen in the field. Sow 4 pounds to first write of the business mainly be had at about similar price, but tivation of the crop or else the pro. the acre at first, then 1 pound after for wool growing and afterwards for \$10 extra for a ram of superior form, duction will decrease. There is one that. Plant in drills if the land is meat production. I make this displan by which grass can be kept un- wet and broadcast if dry. Last fall tinction so as to be plain and minute der; that is by pasturing geese in I saw two rape plants on exhibition as possible, and not because some the cotton patch. This will destroy at the fair, which weighed 40 pounds breeds are exclusively intended for one or the other of these purposes. There is no well-known breed in the Your correspondent had an inter- United States but that may be profit-

ewes lack size and good form, which

they usually do, they might well be crossed first for two successive years with thorough bred Shropshire rams, or better for three years, and from these three crops of ewe lambs select a flock of ewes and put off the old and Mutton or Fleece and Flesh!-Sheep flock. For this purpose Dorsett rams may be used, but in either case let the ram be heavy fleeced, squarely built, well developed body, having undoubted constitution and a good pedigree. Use the same stock for all and crossing for wool and mutton The theorist, or rather scientist, will have attention in a future chap-

No. 22

The number of sheep to be kept deknow: that the science of sheep hus. half the business, while grain and of his business and adjust the condi- farmer can prepare for it is to rather home for all his cotton seed, grain To illustrate, let me relate a little and roughness, and a great profit is

> The profits from one ewe well fed and cared for will equal that from two poorly fed and cared for. Keep this fact buzzing in your mind like a bee in your hat, all the time that you keep sheep for profits.

A flock of ewes as above referred to would likely cost \$4 or \$5 more per head, or they should be bred up until they are worth and would sell beginning of winter. In this I do not mean "culls" and old ones, but

However, suppose a start is made A large heavy-fieeced, pure blood \$25, expressage under 500 miles in-Merino flock is near by. A Shropshire, Dorsett of Southdown could weight of fleece and size is money well spent. In good flesh he should not weigh less than 200 pounds-if a Shropshire, 250 pounds-and shear, "in the grease," not less than 18 pounds; if a Merino 25 pounds.

The writer wishes to emphasize the matter of breeding, continuously, superior blooded rams even on the most common flock of ewes. Its always pays to do so. It is always a loss of profits not to do so.

At above prices I do not refer to rams of superior excellence in high working along on the front line of are to be had at reasonable prices.

Even in common wool flocks, at least four essential points should be

CONTINUED ON PAGE 8.