Raleigh, N. C., May 15 1900.

Agriculture.

spondence of The Progressive Farmer. As a class, farmers are a very conthe alert man who keeps his ears and specifically considered. eyes wide open, who recognizes opportunities for improvement when hey do come, and not "the man with the hee" who plods along in the same old rut, whose face is always toward the past, and whose honest conviction is that "book farming" bulletins" and "farm papers" and all such "fancy nonsense" are entirely outside of and apart from the hard, back-aching work of digging a iving out of the soil.

And yet, those whose memories each back to the early fifties can see no reason for discouragement. The past half century has been preeminently an era of progress in agrimight our fight, good or bad, and are better.

fdisaster. Bad seasons, low prices, produce less expensive. appear.

onfarm it.

On the other hand, diversified aming intelligently pursued means

Wealth recedes until the one crop into oil.

country is found. It could not well go lower, and it is a hopeful sign that the "cotton belt" is at last awakening to its own imperative needs.

Of course, this all means conceniration, less "spread out work," prvative folk. Old and tried ways more fertilizers, heavier crops, an are hard to replace even when better improving soil, diversified industries ones are fairly in sight. This dispo. and all the attendant prosperity sition to cling to the past no doubt that comes in their train. Some of has its good side. But after all, it is these changes will hereafter be more

> NORMAN ROBINSON. Moore Co., N. C.

Tell us about your experience in growing rape or any other forage crop not generally grown in North Carolina or adjoining States. Your and "agricultural colleges" and knowledge might help others-and that should be the aim of all farm ers. We are all brothers, and need and deserve the help of our fellows Do your part, and others will follow

CULTIVATING CROPS

Correspondence of The Progressive Farmer.

supplanted the hoe, and the farmer wants of the stockman. To get the can as a result accomplish nearly largest and most nutritions crops, it alture. Artificial fertilization with twice as much work in working the should be sown in drills and cultichemical manures, the general use soil around his garden and field crops. vated the same as a root crop-with of improved farm machinery and The hoe is too slow and antiquated this important exception, however, above all, the successful study of an implement for modern farming, no thinning is required. Where the laws of plant growth and hy- and while it has its place in small drilled, sow from two to three pounds giene, hardly date back beyond the gardens and for plants that cannot of seed per acre. Rape may also be memory of living men, and there is be reached with the cultivator, it is sown broadcast upon well-prepared the best of reason for believing that not as useful an implement as for- land, in which case it should be covthis advancement will go on at an merly. There is one good practice ered lightly with a fine tooth drag accelerated pace. Indeed, no one caused by the general use of the cul- or a brush harrow. When broadan look out upon the century that is tivator. We now sow our seeds and easted, from four to five pounds of just before us with calm eyes and set out the plants in rows wide seed should be used per acre. lear vision, without the most hope- enough apart to enable the cultivator | Some farmers have received satisful anticipations. Progress is every- to pass easily between them, When factory returns by sowing rape seed where. It is in the very air. It the hoe was the chief implement for on a field planted with oats or barervides the literature of farming. cultivating the tendency was to rob ley. In this case the best method of Even the restlessness and discontent the soil too much. The rows were procedure is as follows: A week or rith present methods and results, planted close together and the plants ten days after the oats or barley shich are at the same time the har- never did so well. Now we are more have been sown, and just after the ingers and most potent stimulants generous with our soil and we plant young plants have shown above the a change, all point in the same the crops farther apart, and they do surface of the soil, sow two or three lirection. Farmers cannot stand much better. We raise probably pounds of rape seed per acre; harrow till if they would. They must move less numbers to the acre, but they this in with a light, fine tooth drag. and to those of us who have are better in quality, and the profits Covering the seed in this manner

the are now on the reminiscent side | We cannot afford to be stingy with | barley plants, but is a help rather life, it is no small source of grati- our land any more than we can afford than otherwise. By sowing later eation that the keen-eyed, brainy to bother with the hoe where the than the oat or barley seeding, the oung men who, in our agricultural cultivator will take its place. Rows young rape plants are held in check elleges, are now studying one of the for nearly all crops should be wide and do not make much growth until mest difficult and intrinsic of the ap- enough for the cultivator to pass be- after the main crop is harvested. lied sciences, will find an army of tween them, and in some instances Then having the benefits of full sunollers ready for their leadership, far enough apart to permit a wagon- shine and all available moisture, the much more disciplined and tractable load of straw or manure to drive be- young plants spring forth rapidly than those that we have known, and tween them. All this lessens labor, and soon furnish a large amount of hat they will make more rapid which today is the prime considera- feed. Farmers who have sown rape marches and more brilliant conquests tion on any farm. More money is seed along with oats or barley have han it has been our good fortune to spent in labor hire than for manure found to their sorrow that in wet and seeds put together, and anything seasons the rape plants grow as tall In addition to changes already that tends to lessen the amount of as the grain and furnish so much unterlout in the farming methods labor required is a distinct advan- green material as to make trouble in the country, and especially of the tage. Farming is gradually moving harvesting the grain. The later outh, there is probably nothing toward the same end that all manuseeding of rape with grain is there-More certain than the utter aban- facturing has been going for years. fore to be recommended as the preferonment of the one crop system. It More and improved farm machinery able practice. byer was a good system, and it is is being invented to save time and In sections of the country where Recommendation worse every year. A one labor, and each invention helps to the seasons are fairly long, stubble top country is always on the border make the cost of raising a bushel of fields may be plowed up and sowed

But there are many ways to save secured before winter sets in. No lieve you could use a dozen copies or horoughfares all lead that way, time and labor which farmers could matter how the seed may be sown, more very advantageously in your Thile success must be fought for adopt themselves without making the hardy plants spring up quickly ong a single narrow and rugged further expense for new machinery. and during the early growth one canathway The world's experience One of these is to have such road- not tell them from rutabaga or Caches that with this system long- ways through the farm that will per- Swede turnips. When they reach a mit wagons to pass without encroach- height of eight or ten inches they bandoned fields, unkempt, unpainted ing upon the growing plants. By can be pastured by any kind of stock. longer neglected fences, and all the being able to reach every part of the Rape is most suitable for sheep, with the United States have manifested sconraging concomitants of profit- field during the growing as well as pigs coming second. Of course, the much interest in the commercial postillage sooner or later are sure the harvesting season we may save young plants are quite watery; as sibilities of the cultivation of rice. many dollars. Overcrowding not they grow older the nutriment is This interest has reached even North The South cannot hope to reverse only has its disadvantages in making more condensed and satisfactory. his seemingly universal law, and it the plants less healthy and vigorous, So far as known to the writer the Gerald McCarthy in The Progressive would not be at all difficult to find but it prevents good work in the only insect pest attacking the rape Farmer indicate. The world's con-Calities that already only too clearly field through the summer and auplant is a louse which severely insumption of rice is enormous. It S. W. CHAMBERS.

improving country, richer soil 1,000,000 bushels heavier than the very late. The men. A map of the United crop of the preceding year. The total Care must be taken to order forage bined population of these countries consumption and every farmer should the worst of all enemies of the The most interesting and in- crop will, it is thought, reach nearly rape, for many mistakes have been is more than half the total popula- grow some of these also. We quote: orchard. bind, could be made, in 4,500,000 bushels of 22 pounds each. made by seedsmen who have fur- tion of the globe. Many authorities . We have repeatedly in the past prosperity and wealth of The bulk of the crop is produced in nished oil seed or bird seed rape in assert that the consumption of rice urged that farmers should should in order to impress our young people furnish community might be Tennessee, Virginia and North Caro- stead. These latter varieties furnish is greater than of any other cereal. grow pumpkins for stock feed. Our with the importance of studying nathe state of the s the American yield constitutes but a weeks after the seed is sown. A field so far as the United States is con- We desire again to urge the matter. What countything practicable is small proportion of the peanut crop of bird seed rape in bloom resembles cerned practically an unentered field. Those who have grown pumpkins use the natural enemies which the Follows in horticulture, fruit grow- of the world. The exportation from a field of wild mustard, the yellow We now produce about 70,000 tons are more than satisfied with the market gardening and Africa and India to Europe is nearly blossoms being visible from a long annually and consume twice that crop. We have several friends who there the highest pros- 400,000,000 pounds annually, half of distance. The true forage rape does amount. Whether we can profitably last year made large crops. One the found. In a lessening ratio which goes to Marseilles to be made not blossom the same season the produce the whole domestic supply gentleman made over 50 tons, many we will simply work with her.—

GROWING RAPE.

EDITORS PROGRESSIVE FARMER:-Please tell me something about growing rape. Will it grow in this country? When to plant? How to plant and cultivate? E. F. G,

Durham Co., N. C. We quote from Prof. Henry the following account of the rape plant. Prof. Henry is an authority on the subject and his statements can be relied upon. He says:

Those unfamiliar with rape can best best gain an idea of how it looks and what sort of a feeding substance it is by remembering that forage rape resembles a rutabaga turnip run to leaf instead of forming any enlarged root stalk. Nature has arranged that during the first season of growth the nutriment is stored in the leaves; during the second year in mild climates where the plants survive the winter, its nutriment passes out of the leaves and up into the seed pods, where seeds are formed. Rape is a hardy plant and can be sown any time from very early spring The cultivator has today largely until after harvest, according to the

to rape, and a great deal of forage stating the number desired. We be-

seed is sown, but bears its blossom necessary and force an entrance into of the pumpkins weighing over 50 Wallace's Farmer.

seed rape does not become a pest like and Western methods of production tional expense except for the seed. wild mustard, but since the leaves to a degree sufficient to offset the and the grower says that he believes are small like mustard leaves, there lower cost of labor in the Orient. his corn crop was benefited by the is little or no feeding value to the Towards the end of the last century growth, as the pumpkin vines shaded crop. In ordering seed, be sure to this was done for cotton cloth, the the land and kept it moist, and thus The seed is imported from England, may see it done for rice. It is be- through a hot, dry season. We beor grown in the Northwestern United cause there seems some possibility of lieve it will pay to grow the crop States, nor Puget Sound. It costs doing this that interest in the sub- alone as the yield produced is very from five to 15 cents per pound, ac- ject is being aroused. cording to the quantity erdered. It In the United States labor costs grow in the corn field. Plant in May seedsman.

limit the animals to a given area. used in the East. Where lands are cheap there is no Rice is peculiarly susceptible to tober, and is now perfectly sound need of taking so much trouble, the cultivation on a large scale. To stock being allowed to roam over the raise low land rice successfully the field at will. The only danger in the farmer must have at his command use of rape, as stated above, is from an adequate supply of water of uni- think rather disparagingly of those bloating, which trouble is not always form temperature, and under such

they have been well filled up on other a very valuable commercial product. field of grass adjacent to the rape the immense demand for cheap paper,

in Canada. Its prominent introduc- trouble in securing factories to use tion to the public, however, was the straw. growers, are urged to use rape in a and elsewhere. Our natural advanand their appreciation of its merits adapted to the crop as that now so

Members of the staff of The Prorecommend it.

If you want a bunch of sample copies of The Progressive Farmer, don't hesitate to drop us a card, community. Write us to-morrow if you haven't time today.

RICE CULTURE.

Recently the agricultural circles of Carolina, as recent articles by Mr.

and fruit the second year, the same Eastern markets, depends upon the pounds each. This crop was made in as the cabbage and rutabaga. Bird possibility of employing machinery the corn crop, and without any addi specify the Dwarf Essex forage rape. first quarter of the next century kept the corn growing and feeding

more productive.

control that it can be used in the Animals should not be turned into right quantities at the right times. the rape field for the first time until It looks as if rice straw will become feeds. Experience and experiments The price of paper, particularly of have shown that it is greatly to the the grade used by newspapers, has of advantage of stock to have a pasture late been steadily rising. To meet field, so that the animals can feed on extensive experiments have been one or the other as appetite and con- conducted, with the object of inventditions dictate. When pasture is ing a cheaper method of manufacturavailable, bloating will rarely occur, ing paper from rice straw. These the animals wisely protecting them- experiments are said to promise sucselves by mixing their feed of grass cess. If the report is true, rice culprofitable. The North Carolina De-The rape plant has long been used | partment of Agriculture is in correby the farmers of Great Britain and spondence with manufacturers of the Continent, and it has been made | machinery for making paper from use of for a long time past by some rice straw. If the crop is grown in farmers on this continent, especially sufficient quantity, there will be no

brought about by our agricultural All these facts point to a cheaper colleges and experiment stations, the and larger production in the South. leader in this being the Ontario Ag- From 1879 to 1889, the yield per acre ricultural College at Guelph. If our in the United States increased 26 incessantly, and eighty per cent. of colleges had done no other work than per cent. In recent years a number bring this one plant to the attention of farmers have undertaken the culof our farmers generally, they would | tivation of rice with modern machinhave paid for themselves. Stock- ery in Louisiana, and their success men, especially sheep and swine has stimulated the industry in Texas small way at first, enlarging the area | tages for rice are being utilized. But sown as their experience in using it plenty of land remains quite as well

The twelfth census will attempt to gressive Farmer have grown and collect reliable statistics concerning should never be killed. A family of fed rape successfully and heartily acreage, quantity and value of product, cost of fertilizers and labor, value of building and machinery, etc., for this crop in connection with its agricultural returns.

With the view of obtaining accurate information upon these points, | rid of the flies about the house, circulars are now being prepared in the census office and will be sent to the orchards, the professor discovevery rice-growing district in the United States, asking for the names and addresses of all persons therein bats that were located in the barn. who artificially irrigate rice fields.

If the returns are full and accurate, they will be of much value and interest to those concerned with our agricultural and commercial prosperity.

PUMPKIN GROWING.

The Progressive Farmer heartily endorses every word of the followjures it in hot dry weather. This constitutes the principal foodstuff of ing from the Southern Planter. And never occurred to us before, and it pest is sometimes avoided by plant- China and Japan, and one of the there's one matter to which the may be that after all it offers the The peanut crop of 1899 is nearly ing the rape either very early or principal cereal foods of India, Egypt, Planter fails to refer: that many Siam and the Philippines. The com- varieties are excellent for human how to get rid of the codling moth,

heavy, but it will certainly pay to can be obtained from any reliable more than in the East, but it is also and June, dropping the seeds 8 or 10 feet apart each way. Pumpkins Rape is not harvested or cured American labor is more productive make a most wholesome feed for cat like hay or other forage plants, but because it works with American ma- tle and hogs. Like roots whilst they should be fed off in the green state. chinery. Instead of a sickle, the have not by analysis a high nutritive It can be cut and carried to the stock; farmer frequently cuts the grain value, yet they are cooling and whole in this case the amount the animals with a reaping machine; instead of some, and keep the stock in health receive can be limited, and there is flailing or treading it out, he thrashes and with a capacity for eating and no danger of bloat, which is prac- it with a steam thrasher; instead of digesting more food, and thereby tically the only source of trouble in | pounding it in a mortar with a pestle, | making a quicker and more profitits use. Generally stockmen turn he hulls and cleans it in a modern able return in a shorter time. They their animals directly into the rape | mill, where a few men and a few ma- | may be stored in a dry shed or bran, field, allowing them to feed at will. chines clean and polish as much rice and if protected from frost, will Where the greatest returns are in a day as 5,000 men could do with keep until spring. We have one sought, portable fences are used to the primitive tub and pounder still weighing about 75 pounds, which has been on our office table since last Oc-

We sometimes are disposed to who after all may be our best friends. but not nearly so likely to make a mistake with our human friends as with friends of the lower orders of creation. For some reason farmers generally dislike toads. They have no good looks to commend them, and Shakespeare gave the toad a bad name by describing it as "ugly and venomous," yet "with a precious jewel in its head." Ugly it is bevond question; venomous it never was; the jewel of the toad is not in its head but in its stomach, and it is one of the very best friends that the and rape instead of consuming too ture in the near future will be more farmer has on his farm. The experiment stations, which are investigating in every direction to discover the friends and foes of the farmer. are among other things investigating toads and bats, and furnish the strongest kind of testimony as to the value of these despised friends of the farmer. The toad has an appetite to which the appetite of a hog is as that of a sick man to a hungry thrasher or harvest hand. It eats its food consists of harmful insects. It is estimated that in three months a single toad will consume 10,000 in sects, such as army worms, gypsy moths, cutworms, ants, weevils, wire worms; everything, in fact, in sight One of the professors in the in Massachusetts Station established some toad colonies near his home and found them the best fiy catchers ever yet discovered. Therefore, toads them colonized in the garden with a basin of water in which the female can lay her eggs will soon rid the whole neighborhood of the worst insect enemies of the garden, to say nothing of the comfort of getting

In making his investigations in ered one orchard entirely free from codling moths, due to a colony of The codling moth is a night fiver and only night flying enemies can destroy them. He colonized a few bats in his parlor (we do not ask our ladies to submit to that) and introduced into the parlor netful after netful of night flying insects and found that not a single one would be left in the morning. The value of the bat as a night fly catcher had best solution of the vexed problem of

We speak of these despised friends field, the orchard, and the garden, to Creator has furnished in order to prevent the excess production of any living thing. Nature will cut down the excess of any destructive pest if