Raleigh, N. C., March 12, 1901.

correspondence of The Progressive Farmer. A this season of the year farmers are laying in their supplies of commercial fertilizers and fertilizing ingredients, and no question is more frequently asked than how to propertion the different ingredients so as to make a well balanced fertilizer for some particular crop. With many farmers "guano is guano," and these apply the same brand indifferently to corn, cotton, peas, potatees, etc , without considering the special wants or preferences of par-

ticular crops, or particular soils. But there are many more up todate farmers who understand that a fertilizer for corn will not exactly suit for cotton, and that a formula for grass is not just what is needed for clover. A failure to recognize the peculiar demands of particular crops and soils may often result in acre. disappointment and loss. A fertilizer especially well adapted for cot- For melons, cucumbers, squashes, ton may also do very well on corn, and vice versa. But it may be true, and often is true, that a material change in the composition would yield still more satisfactory and more profitable results.

For convenience of all I give, without unnecessary comment, formulas for the leading field crops and garden vegetables, in the hope that those who are interested will preserve this article for future reference. It should be understood that that these formulas are suggested as the result of years of careful experiments on the upland soils of middle Georgia and are therefore to be considered as especially applicable only to such soils in this and adjoining soda, 250) States. In the piney woods region

must necessarily judge for himself, quire very heavy fertilizing. with the aid of the general sugges formulas should be modified.

FORMULA NUMBER ONE. For corn on old worn uplands-Acid phosphate (14 p.c.) 1,000 lbs 12 Muriate of potash.... 30 lbs or kuinit, 120 pounds) 1 C S meal (7:2½:1½...1,250 lbs 2,280

This formula (employing muriate) or relatively the same as 10:2:5. On there er, reduce the potash and Odrai seed meal. Apply enough to bottom 50 to 150 pounds acid phos-

plate per acre. THEMULA NUMBER TWO. To a on old worn uplands and phosp'te (14 p.c.) 1,000 lbs rate of potash.... minit 300 pounds)

10.00:3,33:3.33, or 5.00:

ly, piney woods soils add inte and more cotton meal. y bottom lands and fresh less muriate and less cotmeal. If fertilizing very muriate and cotton seed y be left out entirely on attem lands. Apply so as on 200 to 400 pounds of acid " Der aere.

THE NUMBER THREE. : tatues-

d phosp'te (14 p.c.) 1,000 lbs rate of potash.... 250 lbs 1,000 pounds kainit) preferably to either pounds sulphate of

ton meal-800 lbs.;

Nativate of soda 400 pounds. The above, using (1), (2) and (5)

would analyze about 8.40:7.50:4.00. Apply so as to get from 300 to 600 pounds ac d phosphate per acre. It would be well to use 400 of cottonseed meal and 200 of nitrate of soda,

applying the latter 1/3 at planting, 1/3 when plants are several inches in height and 1/3 when buds commence to appear.

FORMULA NUMBER FOUR. For sweet potatoes—

(1) Acid phosp'te (14 p.c.) 1,000 lbs (2) Muriate of potash.... 500 lbs

(3) (or kainit 2,000 pounds)

(4) Cot'n meal (7:21/2:1.1/2) 1,100 lbs Employing (1), (2), and (4) it would analyze about 6 40:10.25:4 00. Apply so as to get from 200 to 400 pounds acid phosphate per acre.

FORMULA NUMBER FIVE. or cow peas, clover and legumes generally-

(1) Acid phosp'te (14 p.c.) 1,000 lbs (2) Muriate of potash.... 100 lbs

(or kainit, 400 lbs.) With (1) and (2) would analyze about 12.75 and 4.50.

Apply enough to get from 200 to 300 pounds of acid phosphate per

FORMULA NUMBER SIX.

pumpkins, etc.— (1) Acid phosp'te (14 p.c.) 1,000 lbs (2) Muriate of potash... 250 lbs

(3) (or kainit, 1,000 lbs.) (4) C. S. meal (7, 71/2 and

 $1\frac{1}{2}$ ) . . . . . . . . . . . . . . . . 1,000 lbs (Or better, C. S. meal 500 pounds and nitrate of soda, 250.)

This would analyze about 8.00 and 7.00 and 5.00.

FORMULA NUMBER SEVEN.

For garden vegetables generally-(1) Acid phosp'te (14 p.c.) 1,000 lbs

(3) (or kainit, 1,000 lbs.) (4) Cotton meal (7, 71/2

This would, using (1), (3), and (4) to produce plant growth. But we it will be found expedient as a rule analyze about 5.00, 4.00 and 3.00. should vary in application of each of to increase the proportions of potash | Apply so as to get from 300 to 600 | these ingredients according to condiand netrats from 25 to 50 per cent, pounds of acid phosphate per acre, tion of the soil. Some soils needs phosphoric acid remaining the same. according to the quality or product more or less of each. For instance, On tresh lands, on old lands more tivenesss of the soil. The nitrate of suppose the land made a crop of or less highly improved and on bot- soda should be used by itself, one- pease last year; then we need less tom lands of a dark color, the pro- third at planting, one third in two nitrogen, and to put the same quanportions of potash and nitrogen may or three weeks and one-third when tity of nitrogen in our mixture would often, if not always, be reduced by near the fruiting stage. Beets, be a waste. By reading our agriculfrom 25 to 50 per cent. Every farmer onions and cabbage, cauliflowers re- tural papers and Station bulletins,

R. J. REDDING. thous just given, to what extent the Director Ga. Ag'l Exp't Stat'n, Spalding Co., Ga.

A HARROW THAT DOES GOOD WORK.

Correspondence of The Progressive Farmer.

Every locality is in some respects different from all others. So any Southern farmer would do well to take a Southern agricultural paperand my advice is, take The Progresswould amply ze about 7.50:1.48:3.83, or live Farmer, a Southern paper, because it is directly in the South and fresh soils, or well improved old its writers are men that are in the hands or bottom lands of a loamy practical interests of farming and our timber to grow. trucking.

We seem to think that vegetables grow larger in the North than they do in the South, but if we could give the land the quantity of well-prepared plant food as they do in the North, and the care, we would do as 75 lbs well. Of course, the land must be

properly prepared. 700 lbs And it has been a subject of much uploying muriate) would thought with me to get a machine our farmers will plant corn on our about 8.87:2.70:2.70, or that would grind the clods to a fine hills or highlands, which produce meal in my vegetable farm. I bought about two or three barrels of corn an iron harrow and had the teeth all per acre at a great damage to the made into knife blades rnd bent back | land, without returning anything to so as to slide up on the clods and cut | the soil. Now would it not be well them fine or crush them fine. It to plant the rich bottoms in corn, seems to be quite a success. The harrow is so constructed that it can be widened out or made narrow and | bottom land probably can rent some bring the blade so close to each other near by cheap, or else can plant peas For best results the soil should be that they cut fine and deep. By or clover to vegetate the land to putting on weight it does the work. plant in corn each year, making a And takes less horse power. Land cut much finer than the disk. We this is a great saving of power. The are from towns. The farm boys one and two eyes in each hill, the weight alone under the row system who are educated there do not re- hills from 15 to 18 inches apart in cuts the hard clay clods. Then I turn to the farms, but find some the row. Cultiv.te sufficient to keep have a drag harrow, so I can manage other employment. Why is this? I weeds down until the plants are 2 the worst of land. We all know how would like to see the old fields look feet high.-George M. Casey, Jackto make land fine, but we want to flourishing as of old. We cannot ex- son Co., Ind. know how to do it in short time and pect it as long as the drift is to the R. R. MOORE. at little cost. Guilford Co., N. C.

"SORE EVILS WHICH I HAVE SEEN UN-DER THE SUN."

Some Common Errors as to Fertilizers, Forest Destruction, Disorganization, Etc., as Seen by a Halifax Farmer.

Correspondence of The Progressive Farmer. Many of our farmers are now lay ing their plans for another crop, and some are preparing to go into debt, mortgaging their property and homes in order to buy high priced mules and horses, high-priced farming implements, high-priced fertilizers, and even high-priced corn and meat, all of which are now being bought mostly on credit, with which to make an uncertain crop of cotton, the value of which is just as likely to be five cents as ten cents a pound next fall.

Would it not be well for us to stop and think a little before we rush into making our expenses too heavy? Sup- | Co., Mich. pose we curtail our fertilizer bills by buying only the chemicals and mix our own fertilizers at home. By adding a little of our rich scrapings in a compost pile with a little nitro-

ous mistakes in buying what we do men who are ambitious to have things just high enough so that it will not Wadsworth, thoroughly opposed the not need. The losses from these mistakes often exceed the gain. Still it is impossible to establish any definite rule for fertilizing, which can always be followed on every farm for any length of time. Different soils need different fertilizers. Previous crops will have something to do with the requirements of the soil.

The farmer who expects to secure (2) Muriate of potash .... 250 lbs the greatest profits from his fertilizer must experiment on his own farm and a little work in that direc (Or C. S. meal 1,000 and nitrate cost of fertilizer. All soils need nitrogen, acid phosphate and potash we can get lots of valuable information along this line.

I notice our farmers are clearing more and more of the forest every year. Now this is a great waste. Yes, a waste of timber, a waste of time and land. Yes, we are aban donding the worn out arable lands to cultivate among stumps and roots at the wear and tear of team and implements. Why not haul the woods moull, straw, leaves and ashes from the forest to these old worn-out fields and plow deep when we will be free of stumps and jerks? Leave

While we have our forests around us, we shall not be subject to severe drouths. We can certainly haul mould, ashes, etc., at much less cost than we can clear the forest. Then keep a fence around forest and let the pigs have free access to it. They will find something there to eat and keep healthy.

Then again I have noticed some of where we can make 5 to 10 barrels corn per acre? Those that have no shift to another field every year.

towns. We see most of the old mansions in the country now occupied by when you write to advertisers.

negroes or left to rot down, while the towns are filled with loafers.

As to prices: Can't we control the price of our produce as much so as the merchant does his goods? Let us set our price, and not sell for less. I mean one and all by shorough union, say corn so much, meat so much, eggs so much, poultry so much, and cotton and tobacco so much. Then stand there. We can't buy what we need at our price, so why should we sell what other peo ple need at their price?

AGRICOLA. Halifax Co., N. C.

We must have more and better forage crops. The country is being cut up into small farms for fruit, but we must keep stock to keep up the land .- E. J. Johnston, Van Buren

FARMING THAT PAYS.

What One Randolph Farmer Has Done.

Correspondence of The Progressive Farmer. We see and hear a good deal that gen, acid phosphate and potash or is calculated to discourage the ordikainit, we can have a fertilizer just | nary farmer-run-down old fields, as good as the so-called guano, though poor crops, dilapidated buildings, it will not cost half as much per ton. poor stock, etc. These every-day and shun all such lines of toil and privation; consequently they are leaving the farms of their fathers by the hundreds to seek positions'elsewhere, which they think promise better things.

But there is a brighter side to half acre. farm life even here in North Carolina, where we seem to be tied down to old slip-shod methods and ways of doing things. It is certainly in good farming pays!

of first-class wheat. He usually jury to the crop. an ample acreage in permanent pas-

noticed that these leading crops are adapted to extensive and profitable stock raising.

The barn-a notable feature about the place-is 137 feet long and 60 feet wide and well arranged for every

purpose of a good barn. this farm and buildings was the encumulative forces, which are all the time adding to the productive powers of the farm.

Really good farming pays! J. EDOM SMITH.

I have raised artichokes success fully the past few years and I have found them a good food for hogs. rich and loose, and if of a sandy nature so much the better. In such land properly prepared they yield I notice also that very few farmers from 400 to 600 bushels per acre. work only one horse and good work are educated at these so-called agri- They should be planted early in with disk requires three horses; so cultural colleges. Most of the boys spring in rows 3 feet apart Drop

Mention The Progressive Farmer

HARRY FARMER'S TALKS

Correspondence of The Progressive Farmer. A great deal of hard work is done to no purpose in making compost. Excepting for garden or truck the Correspondence of The Progressive Farmer. ingredients might as well be placed in the soil where the crops are to be | bill? grown. A bushel of cotton seed mixed with two or three loads of ditch bank and piled up, will give no to the other by farmers, butter makbetter results, and often times not as ers, creamery men and butter dealgood, as they would spread on the ers, as well as everybody else conland and plowed under without be- nected with dairying. ing composted.

so that trees cannot draw on the Grout, and referred to the Commitland. A small field surrounded by tee on Agriculture. The National woods is often "sapped to death" by Dairy Union had been organizing for the roots, which sometimes will a year to push this bill to a successreach 150 feet out into the cleared ful passage. But the dairy interests land.

for a man to work in is worth more | bill and agreed to support it. to drain land than a wide shallow ditch and is not so apt to be filled by men, did not get to Washington until the freezes during winter.

Here is a remedy to prevent hawks able time wasted, and the enemies of from catching chickens. Get a ball | the measure had fixed the bill in comof sewing cotton and string out over mittee so they thought it never. We know the use of fertilizer is scenes are exceedingly damaging to the yard like a spider web, you can would see the light of day. The profitable, but we often make seri all agricultural progress, as young tie it to trees, fences, houses or stakes chairman of the committee, Mr. in better shape about them shudder be in the way of your head. It is bill, consigned it to the tender mernot necessary to have it very thick; one string about 10 or 12 feet is suf- industry, of which Congressman ficient. It helps greatly. If you can Lorimer, of Chicago, was chairman, cover the yard as far as the chickens range they will be safe. Five cents' worth of cotton is enough to cover a

If chickens, birds, etc., bother prevented by placing the grain in a months of continuous work of the pot or some other tight vessel and most strenuous nature to do it, they spiring to find an occasional excepto every peck add about a gill, of finally compelled the sub-committee tion. That farm life can be made pine tar (coal or gas tar will do) and to make a report. This report was beautiful, pleasant and profitable pour boiling water over it. This adverse to the bill, and what is now has been clearly demonstrated, for melts the tar or makes it spread notorious as the Wadsworth substiinstance, by Mr. Thos. J. Finch, of easily then stir until the grains look tute was recommended in its place. Randolph county. His farm con- like they were varnished. Drain off Having the matter before the full tains six hundred acres, a large part | the water and dry with road dust, | committee the dairymen had a fightof which, a few years ago, was ap- ashes or soot. It will be easy to ing chance, and after a battle for parently worthless. Now, it is a handle. Tar is very distasteful to more than two weeks between the refreshing oasis, proclaiming to all most animals. A great many farm- two measures, the committee as a who chance to pass that way, that ers confine chickens to prevent them whole finally rejected the Wads-Mr. Finch has 140 acres in wheat the plan of tarring is used there will the Grout bill. this season, and made last year on be no need of this. Rice can be about the same acreage 3,495 bushels | treated the same as corn with no in-

plants 75 acres in corn; the yield A farmer said he was going to buy last year was 4,000 bushels. Then a certain brand of fertilizer because 6, at the new session, and on Dec. 7, he has 50 acres in cow peas for hay, it was cheaper by \$2.50 in the ton. 40 acres in clover and grass, besides | We called his attention to the bulle. | House by a majority of 104, the vote tin published by the North Carolina being 196 to 92. Department of Agriculture to show Wheat, corn, Berkshire hogs, cattle him that so far as the commercial Senate, where the friends found new and mules, are the specialities, and I value was concerned, he would act- danger to its safety. The Senate ually pay more than to buy the well chosen, as the location, soil and higher priced goods. If our farmers its character as a tax measure it general water supply are admirably | would read more it would put money | naturally | belonged, had for chairinto their pockets.

> HARRY FARMER. Columbus Co., N. C.

Another striking feature about Mount over 1,400 dozen eggs, the tee were favorable, if the chairman tire absence of tobacco barns and selecting stock each year only the measure therefore made a fight to cotton gins, as there is not a single white fowls are retained, and it is a send the bill to the agricultural complant of tobacco or a hill of cotton pretty sight to see over 300 in one mittee, which had more time to congrown on the place, although it is group at feeding time -Near sider it, and there they felt the chairwell adapted to the cultivation of Whitakers, a small village in upper man would give them fair play. both. Grass, stock and grain grow- Edgecombe county, and a few miles | The Senate stood by the dairymen ing pay better; besides it is nicer east of Gold Rock, in Nash county, in this matter, and sent the bill to work, and keeps in motion a train of Mr. Louis T. Brodie is successfully the agricultural committee. Then engaged in chicken raising, having an elaborate plant and many incu-

> In raising hogs it is the best and cheapest for the pigs to come in April. By that time the weather has become warm, grass begins to come, ready for the sows and pigs; besides this they should be slopped at least once a day, in order that the sow may suckle well. By nice treat ment by fall the pigs are of a pretty good size and you can fatten them or keep them over for another year. It pays for hogs to have age, they have more muscle or lean meat. Does it pay to raise them in this part of the country, Southwest Virginia? I answer it does. It is better to have a surplus of anything than not enough. The bacon made in this part of the country always brings a good price.-Robt. C. Allison, Glade Springs, Va.

No 5

U. S. SENATE AND GROUT BILL.

Dairymen Must and Will Keep up the Fight Against the Oleo Fraud.

The Dairy.

What has become of the Grout

That is a question that is being asked from one end of the country

The Grout bill was introduced in Cut a small ditch around the fields | the House Dec. 16, 1899, by Mr. of the East and West were divided Do not cut ditches too wide. A and it was not until February that deep ditch that is just wide enough | they finally decided upon the Grout

> The representatives of the dairy-March 7, after three months of valucies of the sub-committee on animal and of which committee four out of five were opposed to the bill. It was thought that this move had practically killed the bill.

The dairymen, however, went to your corn when you plant, it can be work, and while it required three

from destroying the young corn. If | worth substitute and recommended

It was then too late to secure consideration in the House at that session. The bill went over with a special order for consideration Dec. after a sharp fight, was passed in the

The measure was then sent to the committee on finance, to which by man Senator Aldrich, of Rhode Island, who was outspoken in his antogonism of the measure, and the friends of the bill knew that it would Rocky Mount Motor: During 1900 | be almost impossible to get a report Dr. C. L. Killebrew sold in Rocky at that session, even if the commitsurplus of, his poultry yard. In were against it. The friends of the

> began one of the most outrageous attempts upon the part of the oleomargarine makers to delay the hearings and final report that ever was known before any committee in Congress. They had people all over the country telegraph that they desired to be heard against the bill, but could not come until after the holidays, etc. But Chairman Proctor knew full well what their scheme was and forced them to go ahead. Dozens who telegraphed that they desired to be heard never appeared, nor had any idea of appearing, but as it was there were about 50 witnesses examined upon both sides, and the committee could not report until Jan. 26, leaving but a month to get the bill acted upon in the Senate, which was a very short time. The report was favorable, however, and the chairman of the committee, as well as all

[CONTINUED ON PAGE 8.