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

#### Vol. 15.

## Agriculture.

PLANTING THE CORN THICKLY.

The Cost of Seed Corn Small, But a Loss by a Poor Stand is Great-Thin Out Scrub Stalks.

Correspondence of The Progressive Farmer.

of the best Illinois corn counties, I was poor, without knowing to a cer- I bought a shredder and cutter- used 500 pounds should be broadto say thal too thick a stand of corn grain.

stand.

ste. In fact, every stalk, good, bad yield.

best seed to be obtained, (according to the writer's experience) should,

o form a vigorous foundation for a unickly as it is eventually wanted to

During a recent trip through four who suspected that their seed corn ous old way.

estimated the loss during 1900, at tainty, plant their corn very thickly, head combined last fall from the St. cast and 700 pounds drilled in and fully \$100,000 to each county, from in many instances to be followed by Albans Foundry Co, and am well well mixed with soil.] poor stands of growing corn. And very favorable weather and soil con- pleased with the quality of its work For Late Potatoes .- Nitrate of from many visits to numerous locali- ditions, which germinated both vital, and capacity. You simply have your soda, 50 pounds; dried blood, 100 ties throughout the corn States, dur- and half alive kernels, with a result- corn stalks, fodder and shucks torn pounds; tankage, 100 pounds; acid ing the past few years, I have con- ant very thick stand with a large into fine hay, all at one process. My phosphate, 600 pounds; sulphate, or cluded that the average annual loss proportion of barren and nubby stock eat it freely and are keeping muriate of potash, 150 pounds. Use occasioned by having the stand of stalks, and in the end a light yield up in better order than they have 600 to 800 pounds per acre. corn either too thick, or too thin, for their work and expense. Or if heretofore. Cattle and mules eat it For Sweet Potatoes .- No. 1. Tankwill average, at a very conservative on the other hand, weather and soil up very clean; sometimes you may age, 300 pounds; dried blood, 100 estimate, fully 15 bushels per acre. conditions happen to be very unget a double handful from feeding pounds; acid phosphate, 400 pounds; This would average about 70 million favorable, a very poor uneven stand a two-bushel basket full. The refuse muriate of potash, 200 pounds. bushels that are annually lost in the resulted. Consequently a very un- is just nice to make fine manure.

from having the stand of corn both and which generally results in a good keep up so much better on it than cabbage, celery, egg plants, melons, too thin and too thick, no wide-awake even stand, still then there are they do on feed thrown to them in the peppers and squashes. No. 1. Nitrate farmer will dispute. Many farmers always many stalks in such growth rough state. do not realize the importance of seed which are nature's thoroughbred I'll just give a little failure I made monia, 100 pounds; dried blood, 150 of the best possible germinating scrubs, and whose pollenating influ- by shredding about one-third of my pounds; ground bone, 100 pounds; power. Many farmers almost an- ence exerts a like demoralizing effect crop before it became dry enough. I acid phosphate, 450 pounds; muriate nually see that their seed corn is not with all of the more productive stalks, hauled it to my barn in four weeks of potash, 150 pounds. of the best vitality. But they usually as do human outcasts upon the whole after cutting and shocking it. The Use from 1,000 to 2,000 pounds per delay the selecting (if selecting it fabric of society. And as there are weather was very favorable on it acre. It is sometimes desirable to can be called) of their season's supply no criminal legal penalties for the and it seemed to be dry; I shucked it apply at different stages of growth of seed, until they are almost ready destruction of plant life, every wide- out on the stalk, which no one need rather than all at time of planting. to plant. And then it is always a awake corn farmer should destroy fear doing (a person can shuck very For Fruits and Berries .- No. 1. very busy time with them, and they all noticably weak, lazy stalks of near as fast as can the old way). Ground bone, 250 pounds; acid phos-"pick" the foundation of their corn growing corn before they form and Next day I shredded a portion of it phate, 450 pounds; muriate of potcrop, hurriedly, and in many in- shed their pollen, decrease the pro- and packed it down in my barn as ash, 300 pounds. stances carelessly, depending on ductiveness and rob nature's endowed tight as a man could pack it, and in No. 2. Ground bone, 600 pounds "luck" for a good stand of grow- stalks of their high breeding stand- a month or so there was a little white muriate of potash, 400 pounds. ing plants. Many farmers do not and and rightful soil nutriment. select their seed corn in the autumn By this process the farmer will bulk, but my stock ate it up clean. fruits apply after trees come into while husking, as they should in- leave a proper seasonable stand of The sap had not all gotten out of the bearing, 300 to 500 pounds per acre variably do, from individual stalks the most vigorous stalks, which have pith of the stalk, and being packed annually. For berries apply 400 to which have been marked while been endowed by old mother nature so tight caused it to mould. The 600 pounds before setting, and anroguing the crop before its pollen is with the capacity and tendency to balance of my crop was packed away nually thereafter. ripe. If seed corn is thus selected, produce maximum grain yield of the under shelter until November or For early spring application to and subsequently stored in a dry, highest quality and most vigorous December, and then I shredded the trees and berries on light soils, it is airy place, it will not only germi- germinating power. nate well, and make a full stand, but Again, every farmer should only the product, owing to the fact that grow varieties of corn which fully its parentage has been selected from mature a good merchantable grade nature's favorites, will naturally be of corn (with consequently more of much higher quality, and much vital seed) in average years. Also greater in quantity. Many farmers every farmer should constantly keep when ready to plant, watch for a two varieties of corn on his farm New Jersey Board of Agriculture pounds; acid phosphate, 700 pounds; "rainy day" in which to go to their One a medium-sized variety with asked Prof. E. B. Voorhees to pre- muriate of potash, 100 pounds. Apcorn cribs and "pick" their seed corn medium cob and long, large grains, pare a list of fertilizer formulas ply 300 to 500 pounds per acre at where their crop of the previous which should be the stand-by for to the soils and crops of the State. seeding time. vear is perhaps still on hand. Such main crop. The other a 90 day corn These formulas were issued in a For Timothy Hay, Top Dressing. cribs are in many instances not rain of which a few acres should be pamphlet of twelve pages and dis- Nitrate of soda, 500 pounds; ground or snow proof, and were perhaps planted each year for early feed. Or tributed to farmers with charge. bone, 200 pounds; acid phosphate, filled with corn before the grain was if the planting season be long de. Since they are equally well adapted 200 pounds; muriate of potash, 100 thoroughly dry. And damp warm layed, as it often is, by unfavorable to soils and crops of many other sec- pounds. Apply 200 to 300 pounds weather ensuing perhaps, and heat- weather, almost as large a yield tions, we copy here portions of the per acre. ing the grain to the extent that its is secured by planting the 90-day pamphlet, including a few of the For Clovers, Cow Peas and Pasvitality was much impaired. Again, corn fully twice as thickly as the formulas. in "picking" seed corn from the larger, later maturing sort, and in For Field Corn.-No. 1. Ground acid phosphate, 600 pounds; muriate crib, the farmer secures seed which addition secure a much better grade bone, 250 pounds; acid phosphate, of potash, 250 pounds. Apply 300 is in varying degrees nature's weak- of grain. Verily, there is a host of 500 pounds; muriate of potash, 25 to 500 pounds per acre. lings, as regards barrenness and its questions yet unsolved, relating to pounds. No. 2. Cotton seed meal, For Turnips, Swedes and Rape .attendant degeneracy-dry rot, smut, the production of maximum corn 200 pounds; acid phosphate, 600 Nitrate of soda, 150 pounds; dried and indifferent, was allowed to exert Brother farmers, kindly give me pounds. its sexual influence in dictating the your personal experience plong this Apply of either formula 200 to 300 muriate of potash, 150 pounds. Apyield and breading standard of every line by early mail. In exchange for pounds per acre on manured soils; ply 600 to 800 pounds per acre. other stalk in the field. In other such information, I will take pleas. 300 to 500 pounds on medium soils It is not believed that any one words, they bred and produced in a ure in giving any further desired in. without manure. similar manner to a herd of wild formation on this subject. hogs-scrubs and all. There is an 9. U. Seffers. average annual loss of germinating Voorhies, Ills. power in all kinds of seeds, most Free rural mail delivery is easily especially if the variety has had no secured. At the Rhode Island State breeding, of fully 25 per cent., and Grange in '99 the State Master urged in some instances 60 per cent., due delegates on returning home to preto careless selection. A degenerate pare petitions for the establishment variety of seed corn, in which barof mail delivery routes. This was renness is always rampant, naturdone by the Patrons of Davisville ally has weak germs, and general Grange. On the establishment of languor of organization, and is in the route by the Postoffice Departcondition to be easily effected by exment August 15th, 1900, 64 pieces of tremes of weather, both before and mail were delivered at 28 places. The after planting. size of the mail has steadily in-In corn as well as in general crop creased. The largest number of production, great yield, as well as pieces delivered in one day was 172. high quality, can only be secured During last November the average from seed of a well-bred variety, was 1331% pieces per day. The carwhich has been almost freed from rier now stops at 60 places, an inbarrenness, disease, dry rot, low crease of 32. When the route was germinating power, and general orfirst started only three daily papers were taken; now there are 28.—C. O. ply the same as oat formula. ganic languor, by a long course of careful breeding by an expert who Flagg has made a life study of plant breed ing. But even seed of the highest Will you do us a favor? When of ammonia, 100 pounds; tankage, possible vitality and inherent vigor, you write to any man who advertises 100 pounds; acid phosphate, 500 is not proof against severe weather in this paper please state that you pounds; sulphate, or muriate of pot- of The Progressive Farmer, hand to 1900 was nearly a failure. The price conditions, or insect, bird, or rodent saw his advertisement in our col ash, 200 pounds. depredations, consequently the very umns.

### Raleigh, N. C., January 29, 1901.

sulphate of ammonia, 50 pounds;

dried blood, 150 pounds; acid phos-

riate of potash, 200 pounds.

SHREDDING CORN.

A Farmer Who Took the Advice of The Progressive Farmer and Bought a Shredder. C rge yield, be planted fully twice as | Correspondence of The Progressive Farmer. Just a few words about stover. It mature as a proper stand. Perhaps al- may help to take the scare off some most every reader of this journal who of our good farmers who just will thinks no more than 800 pounds of is an active farmer has seen neighbors keep on pulling fodder in the labori- such a mixture should be put in the

No. 2. Dried blood, 75 pounds total yield of our corn crop, owing to even growth, poor pollenation and Brother farmers, save all your tankage, 300 pounds; acid phosphate, poor stands on corn. And permit me light yield of inferior quality of feed by cutting your corn near the 375 pounds; muriate of potash, 250 ground. Do not lose half your feed pounds. Use from 500 to 800 pounds is just as poor a stand as too thin a But even if the farmer plant the by pulling fodder any longer. Get a per acre.

seed of the highest possible germi. shredder and shred and cut your feed ; For Market Garden Crops .- As-That there is much annual loss nating power, and of a good variety, it does go so much farther and stock paragus, cucumbers, early beets, If not, in making up your fertilizer of soda, 100 pounds; sulphate of am-

### HARRY FARMER'S TALKS. XI.

phate, 550 pounds; sulphate, or mu-Correspondence of The Progressive Farmer.

How often do we see farmers ask Application may range from 800 to merchants or postmasters to write 1,200 lbs, per acre. [Farm Journal letters for them. If they want to order something they must get some one to do the writing. This is somedrill; when the larger quantity is thing to which school teachers should give more attention. Every boy and girl should be taught to write ordinary business and social letters. The writer knew a man who attended college who did not know how to order a barrel of flour from the city. Boys and girls, you can get copy books with business forms in them. You can practice at home during these long winter winter nights and in a short time be able to do your own writing. The nice letters written to Aunt Jennie show what boys and girls can do. Harry Farmer likes to see these letters and wishes all the young readers would write occasionally.

> Do you make as many sweet potatoes to the acre as you would like? order add 100 pounds of sulphate of little value for hay, as stock will not potash and 200 pounds 13 per cent. acid phosphate and scatter it along the rows with your other manure and note the result. I have seen kainit used in the place of potash. I knew a farmer to get 100 bushels of potatoes by using fertilizer in addition to his other manure at a cost of only \$2.89. If you can get ashes you will not need any potash, as they contain enough for ordinary crops. Here is one fact that each farmer should always keep in mind : it is the top bushel or pound that gives the profit. If your corn costs you \$5 per acre to make it and sells for 50 cents per bushel and you only make ten bushels per acre, you will be no better off at harvest than you were at planting time. But suppose you make 15 or 25 bushels per acre, that means a profit of \$2.50 or \$7.50. So you see just what I mean by the top think. "These barrels are filled with crop or clear profit. Here is a place

that unscrulpulous seedsmen are importing European-grown clover seed and selling it as American seed. Some of them are mixing with red clover seeds not true clovers, but millets and trefoils. These adulterants are of nearly the same size and color as red clover and are apt to escape the notice of those not expert in seed examination. As a general thing farmers of the South will do well to avoid spring sowings of clover this year. Where the stand of clover or grass from fall sowing is too poor to be allowed to grow, it will be more profitable to plow the field up and resow with the Burt oat, or a mixture of Burt oat and common vetch-Vicia sativa. A good mixture of above is one bushel of oats and 30 pounds of vetch. The oats can be bought in Raleigh and probably of most seedsmen for about 70 cents per bushel. The vetch costs \$3 per bushel of 60 pounds.

No 49

Where improvement of the soil is the chief object the sand vetch (Vicia villosa) is much superior to the other species. It is, however, of eat it unless starved to it. Both these vetches and also the Burt oat may be sown anywhere east of the mountains from February 20th to March 10th. They are all very hardy and not liable to damage from cold. But late sowing is likely to cause loss from rust of oats and mildew of vetch.

mould all through the centre of the For ordinary soils and for large

a former article. bone, 400 pounds; acid phosphate, 200 pounds: muriate of potash, 250

For Timothy and Clover .- Nitrate The Executive Committee of the of soda, 50 pounds; tankage, 150

ture .- Ground bone, 150 pounds;

pounds; acid phosphate, 400 pounds;

formula is the best for all conditions.

The Legislature may want to tax When these barrels are emptied they something to increase the public school fund. You can tax the dogs and help that way two important industries-sheep and eggs. A few years ago there were large flocks of sheep all over the country and if the the product of the packing houses or number decreases in the next 25 vears as it has in the last two decades they will be as scarce as deer. How many eggs are destroyed by the halffed dogs no one can tell, but the the butterine, and is shipped all over number is great. Ask some of the the country and sold as low as eight women folks and see what a tale they will tell. A good dog is useful and should be well taken care of. It is the hungry cur whose owner cannot feed him that does the mischief.

HARRY FARMER Columbus Co., N. C.

# SPRING SEEDS

Correspondence of The Progressive Farnter.

grass seed last fall will find many all kinds ol inferior fats and offal bare patches and even bare fields as can be turned into products that go soon as the soil begins to warm up. into oleo." For forage corn or silage dried These vary as widely as the soils and While the fall is the best time to sow SHOULD THE STATE RAISE PEANUTS!

No farmer should buy any clover or grass seed this spring without first securing a sample and having it tested at the State Department of Agriculture. Such tests are free to farmers. GERALD MCCARTHY.

Botanist N. C. Dep't Agriculture.

The Country Gentleman in a recent issue printed a letter from an employee of the Chicago stock yards. He says that the thousands of barrels of oleo that leave the stock yards are not for export as many anything that can be 'processed' and for that account book mentioned in deodorized and turned into oleo oil, and then delivered to the factories. are returned to the grease producers and filled again. This is the principal ingredient in the finely colored butterine which is carefully gotten up for the retail trade. How about the stockyards? That is put on the market in bulk packages. In these every fat product that cannot be disposed of otherwise finds its way into cents a pound. No tallow is sold from stock yards nowadays. Butterine demands it all. Soap manufacturers, candle manufacturers, etc., have to seek their stocks elsewhere. I have seen the business of oleo grow till everything in the fat line is utilized in its production. The demand for oleo oil or fat has so increased that the stock yards plant has intro-Farmers who sowed clover and duced deodorizing processes, so that

pounds; muriate of potash, 200 blood, 100 pounds; ground bone, 200

Orange Co., N. C.

MIXING.

balance, which is keeping all O. K. recommended to use formula No. 3: R. O. CATE. Nitrate of soda, 150 pounds; ground FERTILIZER FORMULAS FOR HOMEpounds.

more nitrogen is needed.

For Oats .- No. 1. Nitrate of soda, good mechanical condition. It is 200 bounds; tankage, 150 pounds; difficult to obtain a dry mixture acid phosphate, 600 pounds; muriate from mineral ingredients alone, as of potash, 50 pounds.

per acre; 300 to 500 pounds on liable to become pasty, or, if left to medium soils without manure.

soda, 50 pounds, tankage, 250 pounds ; help to make the fertilizer dry and acid phosphate, 650 pounds; muriate workable n a drill or planter. of potash, 50 pounds.

tankage, 100 pounds; acid phosphate, amounts to be applied, have refer-700 pounds; muriate of potash, 50 ence to average conditions of soil pounds.

pounds; acid phosphate, 600 pounds; of the farm. For poor soil, and muriate of potash, 100 pounds. Ap- when manure is not used, the amount

trate of soda, 100 pounds; sulphate nitrogen is needed in the mixtures.

No. 2. Nitrate of soda, 50 pounds; tion.

bood may be substituted for cotton, different methods of management. preparation of mixtures to obtain acid phosphates, potash salt and

On good soils use 200 to 300 pounds nitrate of soda. Such mixtures are stand, may harden into a solid mass. For Wheat .-. No. 1. Nitrate of The addition of bone or tankage will

The suggestions made above as to No. 2. Dried blood, 150 pounds; the constituents to be used, and the and practice where fertilizers are

No. 3. Cotton seed meal, 300 used as a supplement to the manures of fertilizer must be increased, and For Early Potatoes .- No. 1. Ni in the case of cereal crops, more

If you receive more than one copy.

clover and grass stod in the latitud seed meal, in whole or in part as Care should be exercised in the of North Carolina, fall droughts have to be reckoned with. The drought of the fall of 1900 was long and severe. It has damaged fall seedings and in some neighborhoods prevented the usual fall sowings of Commenting upon it, the Scotland crimson clover.

The writer sowed 100 pounds of cleaned or hulled crimson clover in a cotton field near Raleigh in October last. Present prospects are that he will not get his seed back. Sowings of native seed, in chaff, i.e., etc., without coming into unequal uncleaned. made at about same time competition with any particular terhave done very well. Most of the ritory, it ought not to jeopardize the cleaned crimson clover seed handled prosperity of the farmers of this terby seedsmen is imported-mostly from Germany. This seed is not acclimated to our conditions and is very far inferior to native and locally grown seed. This seed should not be hulled, but always sown in chaff. Probably all the clover tribe catch better when unhulled seed is used.

a neighbor and ask for his subscrip- of this seed is now high and ad- stead of seventy and seventy five vancing. It has already appeared cents.'

The farmers of Northeast North Carolina say not, and we think they have justice on their side of the case. Mr. W. F. Butterworth has written a ringing letter upon this subject. Neck Commonwealth says:

"Mr. Eutterworth's contention, coincided with by many farmers in this region is, that inasmuch as the State can raise on its farms all the other products in abundance, such as cotton, field peas, wheat, corn. ritory by raising a large crop of peanuts, which are raised nowhere else in the State.

"It is stated on good authority that the State has sixty thousand bushels of peanuts on hand now; and a merchant in Scotland Neck, a peanut buyer who is all the time well posted, said a few days ago that if the State did not have this large The American red clover crop of amount of peanuts on hand now, the farmers here would be getting a dollar a bushel for their peanuts in-