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DEVOTED TO

Practical and Progressive Agriculture, Horticulture,
Trucking, Live Stock and the Fireside.

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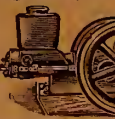
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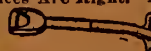
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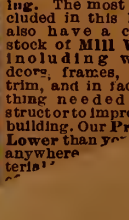
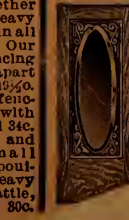
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The Southern Planter.

DEVOTED TO

PRACTICAL AND PROGRESSIVE AGRICULTURE, HORTICULTURE,
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Agriculture is the nursing mother of the Arts.—XENOPHON.
Tillage and pasturage are the two breasts of the State.—SULLY.

70th Year.

RICHMOND, VA., NOVEMBER, 1909.

No. 11.

Farm Management.

WORK FOR THE MONTH.

The drouth to which we referred in our last issue still persists over most of the South and especially over this State and North Carolina. We have however, had in the middle section of the State one or two showery days during October and these, whilst too late to help the forage crops much, have been of service in softening the land and putting it into condition for plowing for the wheat crop. The dry weather has permitted the rapid cutting and shocking of the corn crop, most of which has been saved without having been caught with frost and the fodder will be a great help in carrying stock through the winter. Farmers, we are glad to say, are now much more careful in the shocking and saving of the fodder than they were a few years ago and realize that when cut up and shredded it makes most excellent feed for growing stock when supplemented with a small ration of grain, and that for milking cows it gives that bulk to the ration which is so especially needed. It is complained by some that much of the hard part of the stalk is refused by the stock and has to be removed from the mangers and be carried to the manure pile. This ought not to be necessary if the fodder is properly prepared for feeding. To secure its being eaten up cleanly the cut fodder should be prepared for feeding twelve hours before it is fed. Sufficient of it to feed the herd should be spread out on the feeding room floor or better be spread over the bottom of a large box in which the feed can be mixed. It should then be well moistened with water and be thrown together in a compact heap and be covered with old sacks or bags and be left to heat and soften. At the end of twelve hours it should be spread out again and the grain ration be mixed with it and be fed at once and little of it will be left by the stock. What is left will only be the very hardest parts of the stalks and these will be in fine condition to act as an absorbent for the liquid voidings of the stock. Fed in this way the stock will do much better with even a lighter ration of grain than otherwise would be necessary as the grain is kept more open to the action of the digestive secretions of the stomach and does not become impacted in the stomach as is often the case when it is fed dry. The other forage crops have been saved in good condition and

will make excellent feed and though the bulk is not perhaps as large as could have been wished or would have been the case had we had more rain the nutritive value will be higher and the bulk can be increased by mixing with wheat and oat straw which have much more value as feed than is usually credited to them. There is a very small difference in the nutritive value of timothy hay and wheat and oat straw as will be seen by reference to a table of the nutritive values of feeds to be found in the Bulletin of the Department of Agriculture and in the books on feeds and feeding. One of the forage crops on which reliance is largely placed, cow peas, will this year be much shorter than usual as it always suffers in a dry season. We would advise the feeding of straw with this pea hay. It will help to balance the nutritive ratio of the feed and make the hay go much further. In this connection we would point out that we have much more satisfactory reports on the soy bean crop than on the cow peas. Soy beans suffer less from drouth and less from excessive wet than any crop which we know and are therefore a much surer crop to grow than cowpeas in any kind of season. They are also richer feed than cowpeas, and stock when once accustomed to them eat them better and more hay or straw can be fed with them to advantage. As an improver of the land they are also more valuable than the cowpeas when properly used but it must be thoroughly understood that when grown for this purpose they should not be allowed to mature the beans or much of the nitrogen which they gather from the air will be transferred from the soil to the beans which are the richest in this constituent of any grain grown. You cannot have this both on the roots and in the beans. The dry season should teach farmers the importance of utilizing all the by-products of the farm. It is by the careful utilization of these that the great manufacturing industries of the countries make a large part of their profits—and farmers should do the same—"waste not, want not."

The Department of Agriculture now places the total yield of the wheat crop—winter and spring—at 724,768,000 bushels. The spring wheat has made a record yield, estimated at 291,848,000 bushels against 226,694,000 bushels a

year ago. The yield per acre of both crops is in excess of 15 bushels per acre which is nearly the largest yield ever made. Whilst these are the official estimates they are generally regarded as being in excess of the actual yield. This is put generally at little over 700,000,000 bushels, or about 40,000,000 bushels in excess of the crop harvested a year ago. This yield is very little more than our population will need for feed and seed during the coming year and to make good the depleted reserves. Up to the present time exports have been larger than at the same time a year ago and if these are continued we are likely to find ourselves in the condition which happened this year having to buy back or get from Canada wheat to meet our home demands. The price continues firm and around a dollar in Chicago and here about \$1.10. We are of opinion that this price is not likely to be much if any lower during the year. It is likely rather to be higher than lower. There is every inducement to farmers to put in a larger acreage of wheat though we doubt much whether this is going to be possible owing to the difficulty of getting the land into good order. It is hard and dry and bad to break. The English wheat crop is one of the largest yields per acre ever grown, the average being in excess of 33 bushels per acre. One farmer in one of the best wheat sections of that country reports a yield of 66 bushels per acre over an 8-acre field. We would like to see such a yield in Virginia. It would astonish the people. It is reported that much of the wheat likely to be wanted in European countries is coming from Siberia, a new entrant into the wheat producing countries of the world. The crop is reported to succeed well there and that in the future this is likely to be a large producing centre nearly the whole of which will be available for export as the population is sparse and not a wheat consuming people.

The condition of the corn crop was reported lower in the October returns than in September and it does not appear now likely that the crop will much exceed that of last year. It may reach 2,650,000,000 bushels but that in all probability will be the outside yield. In the face of this it is not likely that the price will be lower as such a crop is not more than normal requirements will readily absorb. The export last year was very small and yet there is no large reserve to be drawn on.

The hay crop of the country is considerably less than that of last year and indications are that the price will be higher. Much of this less production was considerably damaged by rain at cutting time and will not be fit for shipping.

The Irish potato crop is somewhat larger than last year and it is well that this is so as last year we had to import 8,000,000 bushels to meet our needs. It is true that our people are giving more attention to this crop. Hitherto the South has not produced more than a very small crop of Irish potatoes for winter use. It has contented itself with raising the early spring crop for the Northern market and relied upon the North to supply the winter demand. There is no reason why we should do this as we can make as fine winter potatoes as the North and as large yields as they do. The point to be attended to is to plant in June

and July for the winter crop. In this section of the State a number of growers have raised small crops this year and we have seen some of the finest potatoes during this month from these crops that we ever saw and the yield is fully up to the Northern average. This ought to be an encouragement to go more fully into the business. In parts of the Valley of Virginia around Staunton and in other parts of that section of the State more attention has been given to this crop than elsewhere in the State and we know growers there who have for several years made good money on the crop. We would like to see this extend over the State. There is no need for us to have to import potatoes. In this city last winter we had to depend very largely upon English and Scotch potatoes for our supplies.

The hog crop of the country is very seriously short and as a result hogs are selling at record prices, \$8 per 100 and over in the West and on this market. Those who have a good bunch of hogs well grown on forage crops and the corn to finish them quickly have a fine opportunity to make good money before the end of the year. Get them on to the corn now as soon as possible but be careful not to overfeed this at the start and thus spoil the prospect. Bring them to a full ration of corn gradually, keeping them on the grazing crops until they are fully accustomed to the grain feed and it is seen to be agreeing with them. Then push them to finish.

The prospect before beef and mutton feeders is encouraging where they have been able to secure feeders at fair prices, but these have been difficult to secure. There is a great scarcity of beef stock all over the country and prices in the market are soaring and beef and mutton is becoming a costly luxury. Those best posted in the matter say that it will be years before we shall see beef and mutton lower in price again. The ranges are now so curtailed by settlement that feeders in the West are put very much on a parity with Eastern feeders and the business therefore in this Eastern section is likely to be a more profitable and stable one. If Eastern feeders would learn to use the silo for saving their corn crops and thus fully utilize the stalks and fodder we ought to be able to meet any Western competition. Silage has been found to be a most economical and safe feed for beef cattle.

The work of seeding the wheat crop should have attention now so that the crop may be got into the land before the middle of the month if possible. In our last two issues we have written so fully on the subject of the preparation of the land for the crop and on the fertilization of it that we do not know that we can usefully add more. We refer our readers to these last two issues and only add the word "make as perfect a seed bed as possible." More depends on this than on the fertilizer used. Select the land to be seeded so as to give the crop the advantage of good surroundings. Land well drained is essential for success as wheat cannot do well with "wet feet." Provide by water furrows for quickly carrying off all excess of water. See that the seed is well covered after being sown. Wherever possible use a drill to seed the crop as then the seed can be put in at a uniform depth. Do not be discouraged if you have to seed in a dry soil. There is much truth in the old adage—"he who seeds in dust, reap he

must." We had far rather seed in land too dry than in land too wet. Our experience has always been that wheat seeded in dry land stood the winter better and made a better start in the Spring. Select the seed carefully. The value of selection in corn planting has been amply demonstrated by the magnificent showing of ears made at the recent State Fair in competition for the King Corn prize. It is no less important in wheat growing. Blow out all the small light grain and seed only the heaviest and plump-est and the quality of the crop at harvest will demonstrate the wisdom of this advice.

Whilst it is now getting late for seeding any winter cover crops yet wheat, oats and vetch may be sown with the prospect of making a cover and good spring grazing and an early hay crop. The seeding should be heavier than earlier in the fall. We would not sow less than a bushel and a half of the grain with a bushel of vetch seed per acre. Rye alone may also yet be sown. Sow at least two bushels per acre and three would be better.

See to it that all barns, stables and sheds are well cleaned out and made ready for the stock and have roofs, doors and windows repaired and use plenty of limewash upon the inside and outside of the buildings. All stock should have dry, warm quarters ready for them to take shelter in during the cold nights and wet cold days. It is wasting food to warm buildings with it. If the buildings are warm and dry the food will be utilized by the stock in putting on flesh and not in warming the buildings. The animal heat will first be maintained and only the surplus beyond what is necessary for this will go to making gain.

Now that the evenings are getting long you will want something to read and will have time to read it. We have made a selection of journals and papers which we are prepared to offer in combination with *The Planter* at prices which in most cases will give you this journal free or for a very low figure. You will find particulars of these offers in a full page advertisement in this issue. Read this carefully and bring it to the attention of your neighbors and friends and especially to the attention of those who do not already get the *Planter*. Ask them to join you in ordering a selection of these papers, magazines and journals and you will be able to save a considerable sum and get an ample supply of the very best literature and especially of that pertaining to the farm. Help us to add new subscribers to our list as the more we have the better journal we can give you.

NOTES ON OCTOBER ISSUE.

Crimson Clover Seeding.

Editor Southern Planter:

The Editor is right about the seeding with seed in the pod. I believe that it is more uniformly successful than the sowing of clean seed. At least that has been my observation in North Carolina, though I never have sown any but clean seed. But it will take about forty pounds in the chaff to equal a sowing of fifteen pounds of clean seed.

I saw a field in Talbot county, Maryland, last week which was sown in late July, and was ankle deep when

I saw it. With a stand like that one can have the finest of fall and winter pasture, and should the early sowing fail he will still have time enough to make a second effort. I believe there are more failures from too late sowing than from too early. Our September and October weather is so apt to be intensely dry that it is better to take advantage of the summer rains and sow in August, provided August gives us the rains we usually expect in that month.

Manure.

Dr. Thorne's results have been found true here. Our truckers find that it pays them to get manure from New York at a cost of \$2.75 per ton at the railroad station. W. F. Allen of this place used last season 3,000 tons of New York manure, over 50 tons of mixed fertilizer and 8 tons of nitrate of soda as top-dressing.

Colorado Beetles.

If one had to fight only the beetles on potatoes the device of Mr. Horlbeck would do very well. But as we can use a furrow spraying machine with Bordeaux mixture and Paris green we will be fighting blight and bugs at the same time and much labor be saved. Then in using pure Paris green there must of necessity be a great waste, for mixed in Bordeaux 5 ounces of Paris green to 50 gallons of the mixture is enough.

Dual Purpose.

It seems that Mr. Thomas is able to hold the fort and I shall not bother the worthy gentlemen who cannot get rid of the idea that two antagonistic characters can be profitably combined in one animal. It is easy to combine mutton and wool in one sheep and the Shropshire is simply a developed Southdown. But the characters that make a dairy animal forbid that it should have the best beef at same time. There are doubtless many dairy Shorthorns in England, but they are pure dairy animals, and I have never said that good dairy cows could not be bred from Shorthorns, for the foundation stock was largely dairy stock till the dairy character was bred out in breeding for beef production. But if there is any profit in losing \$15 worth of milk to get a \$12 veal I cannot see it.

Of course, where a farmer merely keeps a few cows to make milk and butter for home and is neither a dairyman nor a beef man, he can make out with the "arf and arf" cows. The dairyman cannot afford them.

Oleomargarine.

It seems to me that what is needed is the rigid enforcement of the Grout law preventing the coloring of oleomargarine to imitate butter, except at a tax that prevents the exorbitant profit that the oleo offers as butter. Of course, it would be well to compel its branding as oleo, and to compel the sellers to put up a sign stating that they sell oleo, but anything of the sort will be of little help to the people at the restaurants and hotels who are served the grease as butter. To go further, it would be necessary to compel these places to put up a sign that they serve the article, and fine them heavily if they are found offering it as butter without the notice. I was once lunching at a first-class restaurant and the waiter brought me what was evidently oleo. I told him that I wanted butter, and if it as not furnished I would

advertise the fact that the place served oleo to its guests. He took it away and brought the butter.

Horses.

I was in a large nursery recently and saw neat little mules working rows of seedlings planted two feet apart. What would they have done there with a Percheron with a hoof as big as a dish pan? The Percheron is all right for brewers wagons and heavy express teams in the cities, but for the farm give me a medium sized horse or a mule—mules certainly where negro labor is used. I have worked grade Percherons and do not want them on the farm, still less full bloods.

Ground Limestone.

If we are to use ground limestone, and I have no doubt that it is excellent when used heavily enough, why not have pulverized oyster shells, which are much purer lime than any limestone in the east of the Valley of Virginia. The Valley lime is as pure as any in the world, but the eastern Pennsylvania lime is no better than the Ohio, and that is saying little for it. There is very pure limestone north of Baltimore city in Maryland, but the Skuylkil lime of Pennsylvania is strongly magnesian. It would seem that all along the Chesapeake we ought to get the very best of pulverized lime carbonate in the abundant shell accumulations. I hope that some one will start it. There was talk at an Institute in Somerset county last winter of starting a plant at Chrisfield, but I have not heard that it has been done.

I know here that on our shell roads the pulverized dust from the road has made borders of blue grass flourish on each side in deep sand, the seed evidently coming from the great amount of New York manure used by the truckers, and wherever our sandy fields have been limed the blue grass is coming in when the land is left out. If lime and seed have that effect on our pine woods sandy soils it would be well to look after the pulverized shells.

Renting Land.

I was much interested in what Mr. Armistead writes on this subject. I think that the plan found so successful in this State by the late Col. McKinney was arranged so that landlord and tenant furnished as near equally as possible of the expenses. Mr. A. can learn all about the plan by writing to the Superintendent of the McKinney farms, Centreville, Maryland. There are between forty and fifty farms in the estate.

W. F. MASSEY.

MAKING A FARM PAY.

Editor Southern Planter:

Now that you will soon prepare for another year, pause and think what is best before you begin. Remember the adage, "Plan your work, then work your plan," for to be a successful farmer you must use your head as well as your hands, and make the quality and not so much the quantity.

You may have become discouraged because your wheat did not turn out so well, or hail tore your tobacco all to pieces, or the drought ruined your corn; but don't throw up your hands and say, I can't make a living farming.

Well, you cannot change the course of a hail storm, you cannot make it rain, nor can you stop the rain and make the sun shine when you want to; but you can do this, you can plant a part of your crop so that if a hail storm comes and your tobacco is ruined, you will still have something left. How much damage can a hail-storm do to a potato crop compared to the damage it would do to tobacco? What saved the hay crop this year? It was the rain, but it was not good for some of the other crops. Then the drought came and made some of your other crops short, but couldn't you have planted something else that would not have been affected so much by dry weather? Don't put all your eggs in one basket when every one else does the same, and expect high prices.

It is the natural law of demand and supply of farm products that makes prices. Suppose, for instance, when you left home with your tobacco, eggs were selling at thirty-five cents a dozen and you brought on your wagon fifteen dozen, and each one of you did the same, what would be the consequences?

In an hour or two after you reached town you would see there were more eggs on the market than could be possibly eaten for some time and the rest would spoil. Then one of your neighbors would say: "Well, I am not going to carry my eggs back home and let them spoil there and lose all of them, and I believe I will take thirty cents for mine." In a little while the eggs which were thirty-five cents when you came, on account of each one trying to get out the best he could and each cutting the price, would be selling from fifteen to twenty cents, or lower. The same thing is true of tobacco, wheat, corn cotton and other farm products.

Don't think when you come to town that every man is trying to rob you when you have something to sell, but see before you offer your products if they are scarce on the market; if so, you will get a better price. And always think about what you would do if you were in the buyer's place instead of the seller's.

There are some who laugh at the farmer who reads the Agricultural Bulletins, the farm papers, and who buys up-to-date farm machinery and implements, and say: "Oh, he is one of those book farmers. My old daddy made a living and I guess if I do like he did I can't go wrong."

It is true your father made a living, but did he leave the land in as good shape when he died as when he cleared the new ground? Did he plow deep enough to help nature restore what he took out of the soil? Did he put the right kind of fertilizer in the ground that would last, and help the following crops, or did he put the kind that forced the plant too quick and when the drought came it had nothing to fall back on?

Can you draw water from a well and have none gradually running in all the time, and still be able to get a full bucket each time? Did he sow crops that would improve the land? No, it may not have been necessary for him to have done what he should and also never think of the future, but how about you now, who have this same land; are you making as much money as he did? No, you say, because prices are lower. Did you

ever stop to think if the quality of your products are as good as your father's were?

You say all these new-fangled notions about farming and using riding plows and cultivators is wrong, for they pull a horse to death. Which pulls easier, a modern farm wagon or an old-fashioned sled with no wheels; or, which had you rather do, ride on your wagon or walk and drive the sled? Did you ever stop to think that if you are plowing with a plow that is on wheels, it will go through the ground easier than one that is being pulled through the ground and you wearing your strength out walking? How much more work could you do when you come home at night after riding than you could if you had been walking? Don't you think you would feel more like helping your wife and children to milk, or bring in the wood for them, or go to church after supper? Wouldn't you be able to plan your work for to-morrow better than if you were so tired that you had to go to sleep as soon as supper was over? Remember, it is your brain as well as your hands that must work to make you successful. There are some lands upon which it is impossible to use all kinds of improved machinery, but new things are being invented each year, and if you keep your eyes open you may find what will suit, or possibly it would pay you better to raise hogs, cattle or sheep on this land.

Don't get discouraged, improve your mind, improve your farm and improve your roads, and make up your mind that the starting point of prosperity in the United States is the farm, and there is as good land in Virginia as anywhere. If you will say, "It is in the ground and it's up to me to get it out." If each one will do that in a few years you will be surprised how much money you will have. Raise on your farm what you and your stock have to eat, and let the rest be clear profit, for it is not what you make, but what you save, that makes you rich.

Campbell Co., Va.

G. H. NOWLIN, JR.

TO KEEP RATS OUT OF THE CORN—USE MESH WIRE IN YOUR CORN HOUSE.

Editor Southern Planter:

After trying many experiments to keep rats out of my corn crib, and failing in all, last year I determined to put half-inch mesh wire all over the inside. The result has been so entirely satisfactory that as a farmer I feel it my duty to give to my brother farmers the result.

In 1908 I made a very short corn crop, less than I ever made, and wonderful to say I have some old corn yet (4th October, 1909.). In former years with much more it would all have been gone by July. Not a rat ever has been inside and the corn is sweet and safe. The wire cost me \$25, but it is now paid for in one year.

Brothers farmers, when you find out good things just let us all know it.

W. W. HOBSON.

Powhatan Co., Va.

SOME RANDOM NOTES ON CORN AND PEAS, ALFALFA, CRUSHING LIMESTONE, DOG TAX, ETC.

Editor Southern Planter:

Having neglected to fulfill my promise to report on my corn and pea crop—that is, corn and peas in alternating

rows—last year, I shall try now to make good by reporting both last and this year's crops in one.

My impression last year was that I made fully as much corn as I would have done had the land been planted solidly in corn, and then we got more than the value of the corn stover in pea vines and some \$50 worth of peas, and waste or shattered peas to feed some eight or ten hogs for about six weeks and to put them in fine plight—all this off about twenty-two acres of poor land.

This year my land was mostly good turf land—all planted the same way. I am convinced that my corn is fully as good, and I believe better, than it would have been had it been planted solidly. This owing to the corn obtaining moisture from the pea spaces during the severe drouth.

I think my crop (excepting some planted too late to mature) will average from 30 to 40 bushels per acre, and I think the moist portions of the field will make 40 to 50 bushels.

Now, while this is a light yield of corn, it is a good yield for the season, and there are, I think, very few crops of corn in Louisa county that will yield as much this year, owing to a severe and long-drawn-out drouth.

The pea crop is very short this year, but sufficient to help the sows and pigs that will be turned on them now as soon as I can husk the corn out of the way.

There was a decided difference in the clover sowed in the corn and peas last year in favor of the pea spaces. To date there is no appreciable difference in the spaces this season, as the drouth, yet unbroken, retards the clover very much.

I am so well pleased with the alternating of peas and corn that until I have some adverse experience I shall continue the practice.

Alfalfa.

As to alfalfa (a report upon which I also promised), I would say that my experience is, finally, after about eight years' successive trials with it, decidedly discouraging. I have limed rather excessively, and having applied phosphorus in excessive quantities, I still find that the leaf spot, or blight or rust, as it is variously designated, destroys the plant, and it seems as destructive on very strong as on less fertile soil. One peculiarity about this disease is that it seems to attack the alfalfa when it is making its most luxuriant growth. But for this one trouble the alfalfa would, I am sure, grow finely here, for until this disease attacks it it makes a beautiful growth.

Now, so far as I can learn, "too much lime and over-much phosphorus" do not in the least degree remedy the trouble. There is no hay which seems so nutritious or that stock relishes so much, but until the scientists can find some remedy for this trouble it is distinctly not the thing for this section, and we had best heed Professor Massey and grow the cow pea and crimson clover, as they are better adapted to our section.

Ground Limestone.

We are doing all we can to interest our voters to the point of signing a petition to our legislator to secure a law for the crushing of the limestone, and I think the list will contain practically the entire ballot of the county, and I trust you will continue to agitate the subject until you get all the other counties to do as much, and then

we will have the greatest need of our soil supplied, and when our farmers shall have used it and begin to see, as I and some of my neighbors have seen, what lime will do, then the railroads will get busy and stay so, and the now forlorn looking hills of our old State will flourish and bloom and bear fruitage that will place her on a material plane that cannot even be dimmed by that of her chivalry, courtesy and hospitality.

Dog Tax.

I notice from The Richmond Times-Dispatch that some one in an eastern county says there will be a move made in the next Legislature to repeal the dog tax. Now, I wish to be doubly emphatic when I say that I voice the unqualified sentiment of Louisa's good people when I say that while, like all other laws, it is evaded, it is, nevertheless, a good and profitable law, and instead of its repeal let us have it so entrenched and fortified that it may be more perfectly enforced, and if the constable's office and salary are not such as to demand a worthy man, and an officer who may be of some power and benefit to the State, can't we abolish the office and either extend the sheriff's duties as to include those of the constable or else establish an office, the dignity of which may attract some man who will do some service when elected? When this is done—and not till this is done—will we see the measly cur vanishing from our country, and with his departure you city people may hope for a more plentiful and cheaper supply of poultry, eggs and mutton, for of all the inexcusable and destructive vermin that infests our borders the worthless, roving cur occupies chief place.

Now, Mr. Editor, pardon me for encroaching on your valuable space to such length, and hoping to send you some notes on the tobacco market some time in the near future, I am, for agricultural advancement,

JAMES H. QUISENBERRY.

Louisa Co., Va.

We would urge upon the farmers in every county in the State to take a lesson from what the Louisa people are doing to secure the passage of a law for the grinding of limestone by the convicts and to get busy in signing petitions to the Legislature in favor of this movement. We also heartily endorse the condemnation of the roving curs and the making of the dog tax law more effective. Every farmer should take action to prevent this law being repealed. It used to be said that the colored vote was too valuable for legislators to take sides against the dogs. This is not so now. Make the dogs less and the sheep more and the profit will be greater.—Ed.

CRIMSON CLOVER SEED.

Editor Southern Planter:

Referring to Mr. Jones' article in the October Planter, I have been raising crimson clover seed for my own use for quite a number of years and never failed to get a stand unless sowed too late. Something over twenty-five acres of land have been seeded to clover this year from seed of my raising, and I expect to get out more seed next year. Seeding in the corn has not proved satisfactory to me. To cut the corn off and sow the land to oats suits me better. I start to fallowing land as soon as possible in August and sow the clover close up to the fallowing, so as to take advantage of every season possible. Considering the ease in getting out the seed I do not think

it necessary to purchase costly machinery for the purpose, even regardless of the advantage of having the protection of the chaff—if there is any protection. My way of securing the seed is as follows: Let the clover stand until it is thoroughly browned, then cut it and let it remain on ground in the swath for several days; then take a wagon with tight body into the field, and pile the clover with forks. Two men remain in the wagon when there is force enough and the heaps of clover are thrown in by others as fast as needed—one man in front and one in rear end of wagon, vigorously combing or stirring the clover, throwing out the hay as fast as seed comes off until the wagon is full of seed; then the seed is packed in peanut bags; these are then set out on the ground and another load is gotten out.

Four men can get sufficient seed in one day to sow 25 or 30 acres of land.

Unless there should be a damp, rainy spell of weather for several days no damage is sustained by the clover remaining on the ground as it falls from the mower, and only then where it lies thick, which may cause it to sprout. The longer it waits the easier the seed comes off and care must be used in forking or much of it will be lost. I have tried several ways of securing the seed and find the above the best way of all.

If any further information is desired by those wishing to raise seed I will gladly answer any questions.

Prince George Co., Va.

A. R. CLARY.

CROP ROTATION.

Editor Southern Planter:

In a recent issue of The Planter a rotation of corn, oats, wheat and clover is severely criticized. Should the critic ever travel through a section where this rotation is practiced he will find the farmers there as prosperous as those of any other section following any other system of farming.

There is a farm here ten miles from market for anything but grain. Let us study the rotation on this farm. For forty-five years the rotation has been corn, oats or fallow, wheat and hay (clover and timothy) with the corn, wheat, oats and hay, not used to feed stock, but sold in local market. The stock has been four working horses, a driving horse, five to ten head of cattle, (usually five milch cows) an occasional colt, two to four brood sows and a flock of seventy-five to a hundred chickens.

Nearly all the cornstalks have been fed. They have all reached the manure pile in some form as has all the straw, and the manure has been spread on "corn ground" and "wheat ground" each season giving the farm a coat of manure each two crops with a light coat of lime each five years. This farm was bought by the present owner about forty-five years ago. Buildings, fences and land were in bad shape; the farm having been run on a "hit or miss" plan and the fields were producing poor and very uncertain crops. He had a small stock and less than \$200 when he bought the place. At present this farm produces sixty to seventy bushels of corn per acre; fifty bushels of oats and twenty-five bushels of wheat and from one and a half to two tons of hay per acre. The buildings are in first class condition, having been rebuilt. A new house, 6 rooms, for tenant, new fences, etc., have been built; the farm paid for and the owner has considerable other real estate with

enough to buy another farm, should he desire. He attributes his success to manure, lime and clover and points to dozens of farmers in the neighborhood following the same practice and says "You see they are getting along nicely." His farm has never had a sack of fertilizer used on it. Agricultural prosperity may be an illusion, but fat acres, fat stock and fat pocket books are very satisfying illusions. These have been and are being secured by means of a four crop rotation, manure and lime. Perhaps theory is valuable but it has yet to produce hay. Let us have good practice and sense; the cents will follow.

Easton, Pa.

J. F. E.

ECONOMICAL FARM TEAMS.

Editor Southern Planter:

In looking over an issue of the Southern Planter I notice that a correspondent insists that the big horse, weighing fifteen hundred, is the size that pays best for farm work. He may be right concerning farms where the principle crops are wheat, oats and hay but he is mistaken concerning farms where the principal crops are corn, tobacco, potatoes, tomatoes and other requiring a like amount of cultivation.

I will allow that the big horses may do good work to the plow, harvester, manure-spreader and wagons, but they make a mighty poor showing when it comes to using the harrows, drags, cultivators, drills or any other part of the work where they are compelled to walk all day in loose cultivated soil.

Their own weight is their undoing. They sink so much deeper into the loose soil than a lighter horse, and must raise their great feet so much higher at every step, that the extra effort they must make to simply walk saps their strength and vitality so rapidly that they soon become slow and sluggish, even if they do not entirely play out.

I know what I am talking about as I have worked them side by side and watched the big horses fag while the eleven to twelve hundred horses stood up to the work and at the close of the day were as fresh as any one could expect and as prompt as when they began.

Another great objection to the heavy horse is that, in the cultivation of tobacco, corn, tomatoes, etc., he will crush and break more of the tender plants than any ordinary man can afford to disregard. Even if you don't lose control of your temper you will lose several dollars worth of plants.

If you are employing all sorts of men to work your teams you can hardly appreciate this article until you have tried each team for yourself and given each a fair trial. Without doubt if I were buying teams to work corn, tobacco, etc., I would buy mules, weighing ten or eleven hundred each, if I could possibly get them. I could feed a pair of them for what it would cost me to feed one fifteen hundred horse and either of them would do as much work as the horse, do it better and with much less trouble to the driver. You can work a pair of mules all day and not break as many plants as a big horse would break in an hour. Mules learn their work much quicker than horses and are more prompt, if properly trained. Without doubt they make the best and most economical farm teams, anyway, when grain is expensive.

Harford Co., Md.

E. A. W.

SEEDING WHEAT AND OATS.

Editor Southern Planter:

As a rule your advice in regard to the farm is pretty sound, yet I am afraid that your advice in October Planter about seeding wheat, is rather misleading as far as it applies to Southern Virginia. You advocate the seeding of wheat as late as November 15. When I used to seed large areas in wheat in Halifax County, Va., I usually commenced October 1, and continued until November 15. The result with me invariably was the fields that were seeded before October 25 made a much better yield than those put in after that date, so after some years experience with the same result, I concluded it was a losing game to seed after October 25. I have known my neighbors to seed in November, but never saw any result but failure. I can't see any reason whatever for seeding so late in Virginia, unless the Hessian fly or other enemy attacks the early crop. But I can see a great advantage in early seeding as the plants will have time to grow and get good root hold before cold weather sets in and consequently won't be so easily killed when the land spews up. I have never had any wheat destroyed by flies. While I am on the subject of raising wheat, would say it is much more profitable to raise oats in Southern Virginia, provided proper judgment is used in the preparation of the soil and time of seeding. I have found by experience the best time to sow is February. Always get winter seed, the best variety adapted to your locality. My way is where the field is in sod, to break roughly with a double plow to the depth of eight inches in September, and let the land lie in this condition until the middle of February, then as soon as the soil is in proper condition run over once with a disk harrow and then sow and keep disking until soil is in nice order; finish by running a heavy harrow over the field until quite level. See that no water can stand on the land. Unless a very fine yield of grain, oats ought always to be sold in the straw as they will bring nearly the same price although not much good grain is in the heads.

In order that a profit be made in raising wheat there must be a reasonable amount of good grain secured from the outlay. Oats will grow on much poorer land than wheat and thrive under more adverse conditions. I sold my oats on the local market and bought my flour and thought I got ahead of the man who raised his wheat and had it ground at the mill. Unless your farm is specially adapted to the growth of wheat and it is kept up to a high degree of fertility you had better raise oats. I never thought it best to seed oats in the fall as they will be injured more or less by a cold winter. While living in the Shenandoah Valley I was told by an intelligent farmer that oats did not do well in that section and consequently the farmers raised barley instead of oats to feed on. I can hardly think this is true as conditions there seemed almost perfect for the growth of oats; the springs being usually cool and moisture abundant. But I would like to hear from some Valley farmers on the subject. Hot, dry springs injure the crop here.

Pittsylvania Co., Va.

E. W. ARMISTEAD.

Our advice not to sow wheat until the latter half of October up to the middle of November was founded on experience. We rarely have any killing frost before the middle of October in the Central, Southern and Eastern

sections of the State or further South, say in North Carolina. Last year the first killing frost was October 31; this year the first killing frost was October 14. Until after a killing frost it is not safe to seed wheat as the danger from injury by the Hessian fly is always more or less present over the State until this has happened. The injury done by the fly is no doubt largely the cause of light yields of wheat in the South. Again our experience has been that wheat seeded after the middle of October and up to the middle of November makes a better root growth than wheat seeded before that time. The early seeded wheat will make more top growth and will commence to tiller and cover the land, but this tender growth will be cut off by the frost to a considerable extent and excessive tillering will result in many more stalks but much smaller heads. We prefer to seed more heavily and later and thus secure stronger but fewer stalks. It is these which make the big ears and heavy yield. We once sowed a field of wheat the first week in October and resumed sowing in the last week in October and finished the first week in November. The November seeded wheat made more than twice as much grain as that sowed in the first week in October though this looked the most luxuriant until far into the winter. Wheat wants to get root growth in the fall rather than top growth and later seeding induces this though it should not be so long deferred that the ground becomes cold. The experience of oat growers generally is that winter oats seeded in September always make the heaviest crop. One of the most successful growers whom we ever knew in the central part of the State and who frequently made seventy-five bushels to the acre, would never sow oats unless he could get them in in September. If they cannot be sown in that month then we believe the best course is to sow the Virginia gray winter oat in February. We have frequently known good crops to be made in this way but never so heavy a crop as a September seeding will give.—Ed.

FORAGE CROPS IN VIRGINIA.

We have frequently drawn attention to the fact that here in Virginia we can grow probably a greater variety of forage and hay plants than can be produced in any other section of this country and that this gives an advantage in the raising of live stock of all kinds which ought not to be overlooked by those seeking a location for stock farms and ought at the same time to lead our own people to give still more attention to this branch of farming especially now that prices are so much better than in the past. As an illustration of the capacity of the soils of Middle and Eastern Virginia to produce crops of this character an exhibit made by Mr. Bellwood of Chesterfield Co. at the recent State Fair is most instructive. We asked Mr. Bellwood to give us a list of the forage plants exhibited, all of which we may remark, were luxuriant in growth and to many of which premiums were awarded. Mr. Bellwood writes us as follows:

At your request I send you a list of the forage crops which I sent to the State Fair. It does not include all of the crops of this character that may be grown in this section, but just what was selected from this season's growth on my farm. Many in the list are either indigen-

ous or have become naturalized here. The most of the crops, however, have to be sown, though all of these not every year. The following is the list:

Wheat, rye, barley, oats, timothy, orchard grass, tall oat grass, herds grass, Italian rye grass, Kentucky blue grass, June grass, Awnless broom grass, Rough meadow grass, Rhode Island bent grass, Johnson grass, Randall grass, Dairy Lyme grass, Sheep fescue, Crow foot grass, Giant red top, Barn yard grass, Smooth paspalum, Broad leaved spike grass, Nimble Will, Velvet grass, Wild wheat, Fescue grass, Bermuda grass, Crab grass, Yellow foxtail, Wild rye, Broom sedge, German millet, Corn (five varieties), Orange sorghum, Amber sorghum, Yellow milo maize, Kaffir corn, Pearl millet, Sapling clover, Medium red clover, Alsike clover, Alfalfa clover, Crimson German clover, White German clover, Purple top clover, Japan clover, White clover, Hop clover, Canada peas, Cow peas, Soja beans, Navy beans, Sand vetch, Native vetch, Buckwheat, Pumpkins, Artichokes.

ALBERT R. BELLWOOD.

HOW TO DESTROY WILD ONIONS.

Editor Southern Planter:

As you are aware the presence of garlic (onions) in wheat makes it unfit for milling, and each year there are brought to Richmond thousands of bushels of wheat containing garlic which we are unable to purchase for milling purposes, and has to be sold to feed dealers for chicken feed. The United States Agricultural Department after many experiments, have discovered a way to eradicate the garlic from the land which we think will be of great interest to your readers. We quote as follows:

'To destroy the wild onion the United States Agricultural Department advises 'to harrow with a disk in the fall when the onions are a foot or more high and follow with deep plowing. The form of deep plowing which is the most effective is the one known as trench plowing where two plows are used in breaking, the head one cutting about three inches deep, while the second one follows in the same furrow and goes about a depth of ten inches. The shallow running plow on the next round will turn about three inches of sod which practically carries all the wild onions into the deeper furrow left by the deeper running plow and will thus completely bury the plants so that they will not show up again.'

This form of plowing should be done in the fall, but in order to make a sure shot doubly sure, break again, shallow, early in the spring and plant to a cultivated crop, and if careful cultivation is then given, the method thus followed is said to be absolute death to the wild onion plant in that particular field."

Richmond, Va. THE DUNLOP MILLS.

We drew attention to the Bulletin issued by the Department on this subject a month or two ago.—Ed.

ONCE WAS ENOUGH.

Magistrate (discharging prisoner): "Now, then, I would advise you to keep away from bad company."
Prisoner (feelingly). "Thank you, sir. You won't see me here again."—October Lippincott's.



MR. SANDY IN HIS GRASS FIELD: YIELD, FIVE TONS PER ACRE.

WHAT CAN BE DONE WITH TEN ACRES OF LAND IN THREE YEARS IN VIRGINIA.

Editor Southern Planter:

COST.

Corn and crimson clover crop, 1907-1908.

Plowing 10 acres for corn 8 inches deep with chilled plow, March, 1907	\$ 15.00
Subsoiling, 8 inches deep	15.00
Harrowing, 4 times with Cutaway harrow	22.00
Planting, May 12, 1907	2.50
Fertilizer, 2 1-2 tons bone meal	67.50
Cross-harrowing after corn was up with fine tooth harrow, two days	5.00
Cultivating four times, 5 days with 2-horse cultivator	12.50
Cutting and shocking with harvester, Sept. 5, 1907	10.00
Husking and storing away corn	20.00
Total cost	\$169.50

RECEIPTS.

700 bushels of corn at 80c per bushel	\$560.00
20 tons corn stover at \$5.00 per ton	100.00
Total	\$660.00
Cost deducted	169.50
Net profit	\$490.50

Seeding crimson clover at the last working of corn, 20 pounds to the acre, Aug 1, 1907

Cost of cutting, May, 1908	5.00
Hauling to the barn	6.00
Total cost	\$ 23.00

RECEIPTS.

16 tons cured hay at \$12.00 per ton	\$192.00
Cost deducted	23.00
Net profit	\$169.00

Hay crop:

Cost of plowing 8 inches deep, July, 1908	\$ 15.00
Harrowing with cutaway harrow 6 times, 6 days with four horses	36.00
Fertilizer, 2 1-2 tons bone meal	67.50
Seed, 25 qts. per acre—2 parts timothy, 2 parts herds grass, 1 part sapling clover, 8 lbs. alfalfa	35.00

Seeding	3.50
Harrowing and rolling after seeding	3.50
Cutting 10 acres, June 25, 1909	7.00
Hauling to the barn	10.00
Total cost	\$177.50

RECEIPTS.

50 tons of hay at \$15.00 per ton	\$750.00
Cost deducted	177.50
Net profit	\$572.50

TOTAL NET PROFITS FOR THREE YEARS.

Corn	\$490.50
Crimson clover	169.00
Hay crop, 1909	572.50

Total profit on ten acres for three years	\$1232.00
Total net profit on one acre for three years	123.20
Average net profits on one acre for one year	41.07

The above shows what can be done and has been done in this county on 10 acres of land in three years. Boone County Special corn was grown followed by crimson clover, and then the land seeded to grass. The land, a few years ago, was very thin, averaging from 15 to 20 bushels of corn to the acre. The hay crop was weighed by the following method at the time of harvest. Three samples, one yard square, from different parts of the field were taken. Each of these were weighed and gave net 19 1-2 pounds green, for the three square yards. Cured (thoroughly) the net weight was 6 3-8 pounds. Amount of green hay per acre was 31,850 pounds. Cured hay, 10,412 pounds. In a dozen instances over the state the same results have been accomplished.

The field of ten acres, since harvesting the hay has been mowed again and about eight tons of fine alfalfa hay was gotten, of which no account is made in the above report. The stand of alfalfa, herds grass and timothy, for next year's crop, is promising.

Note—Five tons of hay per acre is reported, but by actual weight five tons, four hundred and twelve pounds was harvested.

Nottoway Co., Va.

T. O. SANDY.

Trucking, Garden and Orchard.

WORK FOR THE MONTH.

As the crops mature and are harvested pull up and rake into heaps all the weeds, trash and vines and burn them up and thus destroy all eggs of insects, pupa and fungoid spores. Whilst this trash and vegetable matter, if plowed down, would add humus to the soil, yet the risk of permitting the pupa of insects and fungoid spores to continue protected during the winter from not being sufficiently buried is too great to allow this course to be followed. These insects are so destructive of young plants and the fungoid spores so apt to again appear in the next crop that burning should always be insisted upon and the necessary humus should be supplied by seeding crimson clover and vetches. It is late now to seed crimson clover, but in rich garden land it will usually make a sufficient growth before severe weather sets in to be worth the chance of seeding, but we would always sow some grain with the clover, say, a mixture of wheat, oats and rye, and thus certainly insure a cover for the land and a fallow to plow down. Sow twelve pounds of the clover seed with three pecks of the grain per acre. Hairy vetch or Winter vetch can be sown with certainty of growth, but this will be later in making a good crop to plow down. Sow twenty pounds of the vetch seed per acre with a bushel of wheat or oats, or a mixture of the two, per acre. Before seeding the clover or vetches it will be well to give a dressing of lime at the rate of a ton to the acre after plowing the land so as to correct any acidity in the soil, which is very apt to be troublesome in gardens from the large amounts of vegetable matter usually put into the land. The lime will also improve the mechanical and physical condition of the soil.

Potato onions, if not already planted, should be at once set out. Plant in rows wide enough to admit of horse cultivation and four inches apart in the rows. Make the soil rich and plant on slight ridges, and put the bulbs deep enough in the land to be well covered. These ridges can then be pulled down in the spring and the onions be left on the top of the ground to make and mature. This variety makes the earliest green onions for the spring market.

Cabbages should be set out during this month for the early spring crop in the eastern and middle sections of the South Atlantic States. Prepare the land well by deep plowing and frequent cultivation and make it rich with the mineral fertilizers—phosphoric acid and potash—but be sparing in the use of nitrogenous fertilizers at this time. These latter have a tendency to induce too early and tender a growth which the later cold weather will cut back and thus seriously injure the plants for later growth. Spring is the proper time to apply nitrogen to the crops, after the plans have commenced to grow freely. Lay the rows off east and west and plant on the south side of the rows so that the ridge will protect them from the cold northwest and northeast winds.

Celery should now be earthed up to blanch it. Take a long, soft cord and fasten to a stake at one end of the row and then take a turn of the cord round each plant

and thus hold the stalks together so that the earth will not get into the hearts of the plants when banked up against them on each side. When the soil has been compacted around the stalks then remove the cord and pass on to the next row. Do not bank the soil with too steep a slope or it will settle back from the plants and thus admit light and air to the stalks and delay the blanching. Later in the year, before severe weather sets in, cover the plants with straw or brush or leaves to keep out the frost. If protected in this way, the stalks may be dug from the rows all winter in this southern section.

Strawberries should be set out this month. Prepare the land well and use acid phosphate and potash liberally. Apply the nitrogen in the spring as a topdressing after growth starts. In setting the plants be careful not to cover the crowns of the plants and make the plants firm in the soil by treading the soil close to the roots as they are planted.

Asparagus beds should be cleared of the old stalks and of the weeds which may have grown up on them and this trash should all be burnt and the bed be then worked down with the cultivator and a heavy dressing of manure be applied.

The cleaning up and cutting out of all old canes and excessive growth in the small fruit plantations should have attention and the soil between the rows should be broken loose and a dressing of manure be applied.

The planting out of orchards should have attention. We strongly advise the fall planting of orchards in the South. Trees set out at this season of the year will get hold of the soil and begin to make root growth during our mild winters and be ready to start off more vigorously in the spring and they will suffer much less if the spring and summer of the first year should be dry. In making the holes for the trees, throw the top soil on one side and the subsoil on the other, and then break the bottom of the holes loose with a mattock and then put in some of the top soil and set the tree and fill in the rest of the top soil first and then finish off with the bottom soil. A mulch of manure on the top will be a great help to the trees, but do not put this in around the roots.

Everyone ought to have a pot or box of bulbs in mid-winter. They are easy to grow indoors and so very satisfactory. It is delightful at Christmas or when shut into the house by heavy storms to have a pot of bright flowers to enjoy.

It is wise to plant your first lot of bulbs about the first of October. Florists claim that each month a bulb is kept unplanted it loses in value. By value they do not mean price, but soundness and the power to produce good flowers. If you buy a number of bulbs why not plant at intervals two weeks apart, and so have blossoms coming on at different times? You can estimate pretty accurately about blossoming. You must plan on putting them away in the dark for five or six weeks, and then when taken out it often means three weeks or more for the blossoms.

REPORT ON THE EXHIBIT OF THE STATE HORTICULTURAL SOCIETY AT THE STATE FAIR.

To Mr. W. W. Sproul, President Virginia State Horticultural Society.

Dear Sir:—A report of the apple exhibit made by our Society at the State Fair held at Richmond October 4 to 9, is requested and I cheerfully comply in setting forth such facts as may interest the average member to the extent that he may devote a moment's time to reading it. It was determined last June at a meeting held at Crozet, that this exhibit should be made but that on account of the short crop of apples the Southern Circuit of Fairs would not be visited. Six or eight counties alone were represented and less than that number of contributors from any one of these counties. Patrick County, with immense specimens of York Imperials, Arkansas Blacks, Buckingham, and others from the Stuart Orchard Company; perfect Winesaps, Bonums and others from the Rangeley Orchard Company made a superb showing. The Belleflowers, Ben Davis and others from Dr. S. S. Guerant, of Franklin County, attracted much attention. About 20 varieties of perfect apples from Mr. Jordan L. Woodman were shown from Roanoke County and the Ferguson Orchard Company of Salem, Va., contributed such fine specimens of Albemarle Pippins and six other varieties that they were constructed into a special pyramid. Mr. E. H. Stewart of Troutville, Botetourt County, contributed the largest specimens of Stayman Winesap I ever saw to say nothing of five other kinds scarcely less noticeable for their perfection. Dr. S. J. Gill of Bedford had several varieties of unsprayed apples that ranked well alongside of those that had received careful attention in this regard, and our reliable standby, Hon. Geo. E. Murrel of Fontella, took the lion's share of the prizes which is enough of praise to accord any one man. Nelson County certainly deserves a high seat in the synagogue in the attractive apples sent by Messrs. James Dickie & Son, of Roseland and by Dr. E. C. Parsons of Massie's Mills. Their apples alone, (over a dozen varieties) would have made a separate exhibit of no mean proportions and just as beautiful and creditable as it was large. Judge J. D. Horsley's apples arrived too late to be placed, but they went to Pittsburg and doubtless our manufacturing friends there will manufacture remarks concerning them that will make us feel wondrous kind toward their judgment. Albemarle was no laggard in the perfection of beauty, size and quality of fruit sent by C. L. Wayland, of Crozet, Dr. W. L. McCue & Son and Rev. R. A. Lapsley of Greenwood. Such Fall Cheeses, Northern Spys, Albemarle Pippins, Winesaps, and others are rarely seen by many people more than once in a lifetime. These figured in a separate pyramid and in the box exhibit. Mr. Stewart Bell of Winchester sent such an even lot of red varieties, the finest type of high class, big price, market fruit that makes the other fellow feel like thirty cents (a dozen) at a market stall. Our Secretary, Mr. Whately, had some last year's apples, a whole box, Winesaps and others, but the girls called them "mummies." I omitted to state that Mr. J. A. Jamison, of Roanoke, had huge specimens of 4 varieties—some Ben Davis measuring over a foot in circumference. This would be too long an article to speak further, individually, but it would be neglect not to notice the beautiful, luscious looking Japanese persimmons, large as Grimes Golden ap-

ples, exhibited by Mr. W. T. Hood, of Richmond and whose Winesaps measured 11 1-2 inches around. The original diagram and design comprehended four additional pyramids to the seven which were erected, a slight misapprehension of the size and shape of the table causing this, but of the merits of the exhibit the certificates below will attest. We had a pyramid of box and basket fruit in the center, arranged in alternate colors, consisting of Baldwin, Albemarle Pippin, Delaware Red, Peck's Pleasant, Winesap, Grimes Golden, Spitzenberg, Pennock and Lady producing a most pleasing effect. Then three large pyramids on racks constructed for that purpose, three smaller pyramids and 1000 plates of five specimens each completed the exhibit. Official photographs in sections, have been taken of the exhibit which the Society can procure at any time. We felt humiliated that no notice was taken of our exhibit by the Richmond daily papers, one even refusing to print the following certificates.

Richmond, Va., Oct. 7, 1909.

It is said by expert judges that the apple exhibit of the Virginia State Horticultural Society in arrangement, display, quality, design and general get up is the most attractive ever seen in the State and those who have had frequent opportunity of visiting National apple exhibits declare this to compare favorably with any exhibit in the history of the country. We endorse the same.

Signed by

W. W. IRVINE,
(U. S. Gov. Pomologist.)
J. B. WATKINS,
(Nurseryman.)
GEO. E. MURRELL,
(Ex-President Horticultural Society.)
W. T. HOOD,
(Nurseryman.)

Richmond, Va., Oct. 7, 1909.

I have visited the New York, New Jersey, and Ohio State Fairs and unhesitatingly say the exhibit of the Virginia State Horticultural Society surpasses them all.

(Signed)

G. L. LAMSON,
Representing American Agriculturalist.

And it may not be amiss to say that Prof. S. B. Heiges, former Pomologist of the U. S. Department of Agriculture, said in the Lynchburg News; "I have carefully gone over the display and arrangement of apples and unhesitatingly say, in all my experience, I have never seen it surpassed. It having been my privilege for years to test the fruits grown in all sections of the United States I can testify to the superiority in quality of those grown in the section represented in this display over any grown elsewhere that have been submitted to me."

The press of other cities spoke in highest terms of our exhibit and competent critics from all over the land gave generous and unstinted praise to the display made but why our Richmond papers chose to ignore us, thus debaring the Virginia public from knowing anything of the Society's efforts to properly advertise their fruits, is beyond comprehension. The beautiful effect of this exhibit is not to be credited to any man but to a trio of Richmond's patriotic young ladies who labored so faithfully and exercised such artistic taste that made this creation possible. A circular was sent to interested parties saying advertising cards for individuals, corporations or counties would

be advantageously placed but only one large card was sent. This should be attended to in the future. A number of advertising cards were made by hand and sent with our exhibit to the Western Pennsylvania Exposition at Pittsburg where, under the care of the Norfolk & Western Railway, our finest apples are beckoning capital to Virginia. We also sent an exhibit to the Danville Fair which has in no uncertain tones spoken for itself. Trusting great good may result from the efforts of the Society in the fruit growers' behalf I am, most respectfully yours,

The thanks of the Society are due to the General Manager, Mr. Mark R. Lloyd, for his faithful services and for courtesies received before, during and after the Fair.

HENRY C. WYSOR.

We gladly and cordially endorse everything said of this exhibit in the certificates above published. We carefully examined the fruit and never before saw such a fine collection of perfect specimens and so great a variety. The State that can produce such fruit cannot long be ignored by buyers for the best markets. This exhibit ought to be worth thousands of dollars to the State and it is a pity that it could not be sent on tour round the whole country.—Ed.

THE TREE PLANTING SEASON.

Editor Southern Planter:

Not long ago I read a paragraph in the Times-Dispatch headed "Fortunes in Apple Growing," and specially referring to Virginia. The writer recommends our "farmer friends" to plant more trees, and says the demand for the apple is constantly on the increase, and that apples always sell. His remarks through the body of the article are in the main all right, but in conclusion he says: "When once planted an orchard requires but little or no cultivation, an occasional pruning and spraying.—Nature does the balance."

Now, as the season for planting is at hand, I want to take exception to the lines quoted, and to say to anyone contemplating planting on such advice, and with such ideas—don't. It is entirely wrong to think that a young orchard requires little or no cultivation, and that nature does the balance. Nature will help man's intelligent efforts, and no more. Before planting an orchard the site should first be carefully selected, and should be of good land, favorably situated, and to obtain the most satisfactory results, for a commercial orchard, only varieties suited to the situation should be planted.

The old idea that the most worthless corner of the farm, that won't pay to cultivate in other crops, will be suitable for fruit trees, is long since exploded. Having selected a suitable site, the land should be prepared by plowing, then laid off and cross lined, holes dug, top soil thrown on one side subsoil on other, and replaced in reverse order when planted. Buy good trees from a reputable nurseryman, as near your home as possible, for trees grown in the nursery under similar conditions will be ready to start off right away, while those grown in a different soil or climate take more or less time to get acclimated.

Cheap trees are a poor investment for any man; though he may not find it out until ten years or so have elapsed. Up to bearing, trees should be cultivated in some hoed crop, or peas, each year; the land should be manured,

trees sprayed, and pruned to form shape, regularly each year at the proper season.

The more careful attention a man gives to his young orchard the better the results will be after they commence to bear.

If anyone contemplates planting an orchard under other ideas than this, I strongly advise him to save the purchase price of the trees, and cost of digging holes. But if planted with the intention of giving proper care, I believe that it is one of the best paying investments that can be made.

Anyone making a start in the orchard business will be wise if he joins membership with the Virginia State Horticultural Society, which has now the largest membership of any Society in the State, particulars as to which may be obtained on application to the writer.

Crozet, Va. WALTER WHATELY,
Secretary-Treasurer Virginia State Hort. Soc'y.

VIRGINIA STATE HORTICULTURAL SOCIETY—EXHIBIT OF FRUIT AT THE ANNUAL MEETING OF THE SOCIETY, WINCHESER, VA., JANUARY, 5 AND 6, 1909.

Special premium open to all North America, offered by Dr. J. B. Emerson of Albemarle Co., Va., open to competition from any State or Canada, of \$50 for the best five boxes (one of each variety of Albemarle Pippin, Winesap, York Imperial, Ben Davis, Grimes Golden, Jonathan, Spitzenberg, Baldwin, Paradise Winter Sweet, Rome Beauty.

All fruit growers in the countries named are cordially invited to enter for this competition, and to notify the Secretary of their entries by December 25th.

WALTER WHATELY,
Secretary, Crozet, Va.

SPRAYING FOR SAN JOSE SCALE.

Editor Southern Planter:

The writer wishes to take exception to an article published in the October issue of your paper, under the heading of "Lime-Sulphur for use against San Jose Scale."

This article conveys the impression—at least to the writer—that Lime-Sulphur wash is the sure and standard remedy for scale, and that the fruit grower should practically avoid the manufactured preparations.

As to the question of the Lime-Sulphur wash being the sure, standard remedy, space will not permit of going into detailed records of the large number of tests, but these results have been so frequently published that anyone who desires can obtain them. For illustration we will refer to one series of tests, eighteen in number.

In 16 out of this total of 18 tests, Soluble Oil killed 100 per cent. of the scales. In the other two it killed 98 per cent.

In not a single one of these tests did Lime-Sulphur kill 100 per cent., in fact, the greatest percentage killed was 96 per cent., and in many of the tests the Lime-Sulphur killed less than 90 per cent. of the scale.

Any remedy, which when properly used, leaves even 5 per cent. or 2 per cent. of the scale, cannot be considered a thoroughly efficient remedy, as this pest multiplies so rapidly that a few scales on the tree in the spring may mean that the tree will be literally covered by Fall.

Further than this: The statement set forth in your publication are not substantiated by the experience of large fruit growers who have gone into the matter in an unbiased way and used the two products extensively. In fact, a great many large growers have reported that they have practically eliminated the scale from their orchards by the use of Soluble Oil, and were never able to do so with the Lime-Sulphur wash.

It is a significant fact that those who have been spraying with the Lime-Sulphur wash for the past five years, or ten years, are still spraying, and in most cases spraying as vigorously as at any previous time.

It is not my wish to question the fact that the Lime-Sulphur wash holds the scale in check. Anyone who has investigated the subject knows that the scale can be controlled with that remedy, but all tests go to show that it cannot be done as effectually as it can with Soluble Oil. There have of course been some good reasons for the fruit grower being prejudiced against Soluble Oil on account of some of those products having been put on the market by firms who never had any experience in that line, and who put on the market products which were absolutely unsuited to the purpose, which resulted in injury to the trees; but a Soluble Oil that is properly made, will, absolutely injure no tree in any way whatever. The writer knows of some who have used it on young trees in its pure state, with no injury. Because a manufacturer of no experience puts on the market an article absolutely unsuited for the purpose for which it is sold, is no reason why the fruit grower should be prejudiced against a legitimate article made by those of long experience.

Referring to the last clause in this article, to which I take exception: It seems to me that such a statement would be given very little consideration by any fair-minded grower. There would be just as much sense in one advising anyone to raise his own fruit and avoid buying it from the fruit grower. There are on the market thoroughly good and economical manufactured preparations which are easier to handle and just as economical as any fruit grower could make. There are, of course, on the market products extensively advertised and sold at unreasonably high prices, but the fruit grower is under no obligations to buy them.

A word in regard to the comparative cost of the lime-sulphur wash and soluble oil: There are on the market brands of soluble oil that cost, applied to the tree, about one-half the cost of lime-sulphur wash, and these same soluble oils have, for all practicable purposes, completely eradicated the scale from orchards that had previously been sprayed for many years with the lime-sulphur wash without obtaining any such results, and with absolutely no injury to the trees whatever.

The fruit grower should, by all means, remember that as there is an increased demand for these sprays, manufacturers of long experience will exert every effort to put on the market the best possible article at the lowest possible price, and he is a wise grower who keeps in touch with all of the different manufacturers, as this is about the only way he can keep posted on what is being done; and he should also remember that prejudice never developed an improvement in anything.

New York.

F. G. STREET.

THE PURE SEED QUESTION.

There is widespread interest being taken in the subject of improving the quality of ordinary farm seeds. That there is need of effort along this line is evident to any one who has given the matter any consideration. A farmer may plow and harrow his ground in preparation for a crop, he may spend a considerable amount of money for fertilizers, but if he uses seed that does not fully germinate, his trouble and expenditure go for little or nothing. Again, a farmer may work for years to get his farm free from weeds. He may think he has accomplished his purpose, but if he is not careful in the selection of the seed he sows, he may reinfest his lands in one season. A great deal is lost to the farmers who sell hay because of the lower price they get for their product when it contains weeds. Some of our most troublesome weed pests are carried from farm to farm and from State to State through the medium of the seed trade. The Experiment Station at Blacksburg has been investigating this matter for some time. We have collected samples of seed on the open market and have tested these and numerous other samples sent here by individual purchasers. The results of these investigations were published in Bulletin 184, entitled "Impurities in Grass and Clover Seed Sold in Virginia." A copy of this may be obtained by any one who makes request for it from the Station.

The writer attended a meeting last winter in Washington of the men who have charge of the enforcement of the pure seed laws in a number of States. Judging from the discussion at this meeting, pure-seed legislation may be divided into two classes—laws that are so loose and general in character that they are of no value, and, others too strict and drastic to be enforced. Some of the laws, on this subject, if carried out, would prohibit the sale of three-fourths of the seed on the market. The small amount that could be sold would then command a price out of reach of most farmers. We need, first of all, a campaign of education as to the value of good seed and how it may be judged. If farmers would learn the difference between good and bad seed the solution of the difficulty would be easy. To make an intelligent test of a sample of seed, however, is not a simple matter. There are about five hundred different kinds of weed seeds that we may get in our common grass and clover seed alone. Some of these so closely resemble the seed with which they are mixed that they require the skill of an expert to identify them. It is too much to expect that farmers who buy seed only a few times during the year will ever master the subject of seed testing.

This Experiment Station has analyzed every sample of seed sent in here for that purpose and will continue to do so as far as the present force is able, without interfering with the regular work. The State should provide a laboratory where seedsmen and farmers can send samples of seeds to be tested, if this work is to be carried on as it should be. Often the dealer knows less about the character of the seed he is handling than do the purchasers, and the dealers are often victimized by the men from whom they purchase their stock. Every man should be provided with the means by which he can tell the character and quality of the goods he is purchasing, if that is possible, and when this is done there is no more need for legislation governing the sale of seeds than for any other business transaction.

Exp. Station, Blacksburg, Va.

LYMAN CARRIER.

Live Stock and Dairy.

DO THE PEOPLE OF RICHMOND WANT PURE MILK AND CREAM, OR DO THEY WANT THEIR TAXES PAID?

Editor Southern Planter:

This farm has made, and is making, an effort to produce good cream under all sanitary conditions that are possible. The Washington inspectors have given us a score of 87.8, the loss of scoring being chiefly made in two points, one of which is amusing in the extreme. Three points because the cans were left in a steam sterilizing tank instead of being put out in the sun to dry—and catch the dust after being sterilized. But listen especially to the loss of the next two points: My barn contains 64 windows, 2 feet 6 inches high—30 opening on a slide—that is, half the window space open—and six doors kept wide open in the summer, the cows only entering the barn—that has cement floors which are washed daily—for milking.

The inspector said the ventilation by all the windows was sufficient, but took off two marks because there was no muslin over open windows. It was pointed out that muslin in the summer would keep out a certain amount of air, and that it would be put on for the winter when the cows were kept in. "Well, I can give you full marks in the winter when I see the muslin." One and a half for not cooling each cow's milk separately; one for not wearing special suits (the milkers wear white aprons); one and a half for not taking each cow's milk separately to the dairy (we take about every four cows); one for not drying the udders after being washed with a light antiseptic, and the other two points being lost in fractions for not having smooth ceilings, cleaner windows and smooth walls.

The Richmond inspector, however, came out of curiosity and not to score—and considered that our dairy should be scored much higher than that of the Washington inspector.

However, we wrote to the Richmond Dairy Company asking if they wanted cream, to which they answered by offering to take our shipments if we would get a permit. That, from the Health Department, seemed easy, especially as the Richmond inspector had seen our plant and stated he wished we would ship to Richmond.

The reply obtained to our application was to the effect that the Dairy Company to whom we proposed shipping must apply "for the permit and pay two dollars." A copy of this letter was forwarded to the Dairy Company and no more was heard of the matter.

We have no particular desire to supply Richmond with sanitary cream if they don't want it, but we certainly do not desire to pay even so nominal an amount as \$2 to assist the Richmond people to inspect our dairies.

Let me however, give an example how the procedure works upon the farmers and upon one in particular. A neighbor of mine fitted up a small dairy and began to ship to Richmond. An inspector came along and found things not to his liking (and there was no quarrel regarding his desires, as they were reasonable), but he stated that if a cooler was purchased he could then again apply and a permit would be sent.

The cooler came and he at once applied. Will you believe it that it took two weeks or more before the department stirred themselves to condescend to send the permit. Personally, I should not have waited but shipped the cream.

If Richmond wants to inspect dairies outside their cities they must pay the piper. I understand they do not visit New York, Pennsylvania and other States and, therefore, are discriminating against Virginia shippers only. Is this so?

The Richmond authorities should abide by the State inspections and if dairies are scored, as they should be scored, by competent men having had personal experience, there should be but little quarrel with inspection.

There is no doubt that fear of inspection keeps the farmers up to the mark in their dairy work, which is essential to the business.

R. CONROY VANCE.

Spottsylvania Co., Va.

This communication amply demonstrates that what we have said in recent issues with reference to the city of Richmond inspection was fully justified and that it is time the people of the city and the farmers of the State should co-operate together to either end or mend the system. The true remedy, in our judgment, is the one we have suggested—viz., to make the State inspection paramount and sufficient, and if the cities want further protection, which would be needless, let them require Pasteurization of the milk by the retailers and thus absolutely preclude the existence of all germs of any disease which at present does not, with all the fuss about inspection, result. It is true, or rather was true up to quite recently, that Virginia dairymen were discriminated against in favor of Northern dairies which were shipping milk and cream to this city.—Ed.

INCREASED PRODUCTION OF MILK.

By First, Breeding; Second, Feeding.

Editor Southern Planter:

It is evident to all of us that some cows produce more milk than others, or have the ability to produce more milk than others. This is a quality possessed by cows to a more or less extent. Acting on the knowledge that like produces like, we can, by breeding two animals possessing certain powers of milk production, reproduce these powers of production in the offspring to a more or less extent. This is a knowledge we all have. We all also realize that a bull can transmit to his offspring these qualities of milk production to a more or less extent. In this connection we realize that a bull, pure bred, and descended from animals that have been noted for large production for generations, can influence the production of his offspring, even though he may be bred to animals of low production. We further realize that the influence of the bull is increased as the improvement is brought about by injecting more and more of the blood of the pure-bred bull into the herd. The result of the first cross gives only half the blood of the bull, the second cross gives three-fourths, the third cross gives seven-eighths, the fourth fifteen-sixteenths, and the fifth thirty-one-thirty-seconds. At the end of three years you should have the calves of the first cross or the half-bred heifers fresh,

at the end of the fifth you should have the three-quarter-bred animals to the pail, at the end of the seventh year you should have the seven-eighths animals fresh, and at the end of the ninth year you should have the fifteen-sixteenths animals fresh, and at the end of the eleventh year your heifers coming fresh should have thirty-one-thirty-seconds of the blood of the bulls you have been using. Now, if you have been using bulls from large producing ancestry, it is evident that animals carrying thirty-one-thirty-seconds of that blood will very closely approximate in production the animals from which the bulls were bred. I would advise using each bull for breeding once on his own calves. I am satisfied in this way we get better influence on the offspring from the side of the sire and make more progress than if the sire is changed with each generation. In selecting a sire, after discarding the first one, it is very important, if possible, that a better bull be procured; a great deal of progress can be made with the second bull. We have conditions that are more susceptible of improvement and we should see marked improvement in the third and fourth generation. The fifth generation, carrying thirty-one-thirty-seconds of the blood of the bulls used we will all agree must be almost equal in its production to the cows from which the bulls are descended.

Are any of you breeding with the idea in mind that you can, and are, getting from this source of improvement all that you can get? Or are you only looking ahead a short time and instead of building up your herd to larger production simply discarding your cows as they finish up their period of lactation and replacing them with fresh cows, and cows possibly that do not produce as much as those which you have discarded? Is this business? Can you expect, under these conditions, to build up a herd? You have only to think for a minute when you will be convinced that you are not pursuing a course that means any large amount of prosperity to you in the future. Another thought which might well be injected at this point: You may, when bringing a cow into your herd from some outside source, be introducing some contagious disease that you may not be fully cognizant of until you may have lost heavily as a result of its presence.

I will now endeavor to show you how you can increase your milk by proper and judicious feeding, or, as is commonly called, scientific feeding. Scientific feeding only means a knowledge of what you are doing. Cows should first have what is known as a maintenance ration. To have a little better knowledge of feeding one should understand that there are certain materials or nutrients in a feed which are called protein, carbohydrates and fat, and that a cow can only make use of the digestible portions of these materials that may be contained in what she is fed. Now, you must understand that a cow requires certain amounts of these materials to take care of the waste of the body which is continually going on. This much material must be supplied before the cow can use any of the digestible nutrients for the production of milk and at the same time maintain her body conditions. If, however, she may not be fed a maintenance ration, then she will produce some milk even at the cost of materials already stored up in her body. Under such conditions she will waste away to a more or less extent. This we are all more or less familiar with. Now the question arises

how much additional material must be fed (after supplying the maintenance ration) for each pound of milk produced. It has been estimated that for each pound of milk produced the cow should be supplied in addition to her maintenance ration, with .05 pounds digestible protein, .022 pounds digestible carbohydrates and .017 pounds digestible fat. Knowing then what must be supplied for each pound of milk produced, the scientific feeder will give his larger producing cows sufficient additional nutriment to enable them to produce up to their limit, and until their limit has been reached, supplying them in excess of what their production calls for, thus enabling them the sooner to reach their limit in production. Have you ever thought that the dairyman who feeds all of his cows alike, regardless of what they may be producing, may be feeding the dry cows an excess of what they may demand in the way of a maintenance ration, and be losing just that much, when if this same feed had been fed to the cows that had the capacity of producing more milk than what the feed they are getting enabled them to do, they could have made a profitable return from it. You can readily see that even the feed that you may be using can be fed to much better advantage by giving the subject careful study.

The question of feeding is one you should all study more. You should know the composition of a feed before you buy it; and, what is more important, you should know what digestible nutrients a feed contains. For most standard feeds these co-efficients have been determined, and upon reference to the tables on feeds and feeding you can find out the protein, carbohydrates and fat contained; also, the percentage of these materials that are digestible. You can then estimate the amount of digestible protein, carbohydrates and fat that may be contained in the material you may wish to use. The successful dairyman must not only be a practical man—one able to deal with all practical affairs he may have to face—but he must also be a student. He must understand all the problems underlying successful breeding, he must also have a knowledge of the composition of feeds, the balancing of rations, which only means feeding the protein, carbohydrates and fat in proportions.

Breeding can materially increase the capacity of an animal to produce milk, and combined with proper feeding, can very largely increase the production of milk.

W. D. SAUNDERS,
Dairy Commissioner.

FAT CATTLE SHIPMENTS FROM TAZEWELL CO., VIRGINIA.

Editor Southern Planter:

Tazewell county has perhaps the finest blue grass pastures in the State. Export cattle from this county have long been selling at the very top of the market in Liverpool and London. It is from Tazewell and adjoining counties that the finest grass beef in the world is shipped. Often the great steers, weighing well up toward a ton, and driven directly from the pasture to the train, have had little corn, and, sometimes, none at all, during their whole lives. No wonder that Tazewell cattle command the highest prices of the markets of the world since the flesh of the three-year-old is as juicy and delicious as that of a calf.

This fall four thousand cattle will be shipped from Tazewell. There has been a flood of grass, due to plenty of rain, but cattle are weighing lighter than usual. Perhaps the shortage in weight is something like fifty pounds a head. Graziers attribute this light weight to the too luxuriant growth of grass, the grass being too sappy, it is said. More sunshine and stocky grass plants would have produced more sugar in the plant and thus increased the fat-producing value of the grass. It has been a splendid season, however, for the growth of young cattle and "feeders" will start into the winter growthy and well fleshed.

Of the four thousand cattle shipped from Tazewell Burke's Garden furnishes about one thousand. Considering the limited area of this little four-by-eight valley devoted to fat cattle, this is perhaps the largest relative production of export cattle in the country. The weights of the cattle shipped from Burke's Garden run from 1,450 to 1,800 pounds. The price this year runs from five and a half to six cents.

An interesting change is taking place in the export cattle industry. Formerly all export cattle were shipped abroad alive. Last year only half the usual number were shipped alive. This year it is estimated that not more than one-fourth the usual number will be shipped alive; while it is possible that by another year none at all will be shipped alive. The whole output will be slaughtered on this side. This is certainly more humane, and more profitable, as well. The outlook for a larger profit to the producer of fat cattle is certainly encouraging and Eastern graziers will welcome the glad day. The day of the big Western ranch is gone; the day of the burning of surplus corn in the Western States will never return, and the day of the splendid indigenous blue grass pastures of Southwestern Virginia is at hand.

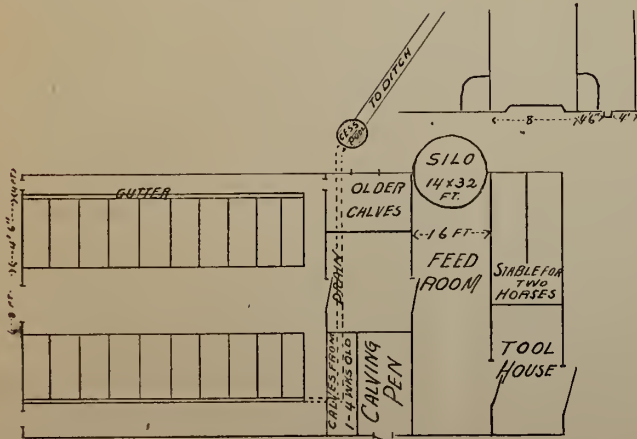
Tazewell Co., Va.

A. S. GREEVER.

AN EXPERIMENT IN DAIRYING.

Editor Southern Planter:

Thinking it might interest you, I am sending a plan of an experiment dairy barn that we are starting on the Mannsfield Hall Farms.



We have cut off about seventy acres of poor land, fencing and ditching it off, and with twenty cows are going to see if dairying can be made to pay if run on a sanitary basis in Virginia.

Every penny expended on the cottage and barn—cost

of everything, in fact—and after paying the men good wages and purchase of grain for cows—hope to see a profit on the investment (of about \$2,500), not including the land.

The milk will be delivered at the farm dairy twice a day to be separated and with the skim milk hogs will be fattened and calves fed. Heifers will be saved and bulls sold for veal.

As this is an experiment it is my intention to let you know all the details as we progress and at the end of the year a full account will be given of the expenses and receipts.

If it proves to be a success we will probably extend the experiment. Of course, much depends upon the man who undertakes it, as he will run it as though he were the owner, although under my directions, and if any profits arise will have a percentage. R. CONROY VANCE.

Spottsylvania Co., Va.

We shall watch this experiment with interest and trust the results will be such as to lead many of our farmers to take up a similar line of work. There is ample need for many such dairies to be established to meet the needs of the population of the State. We are importing over 80 per cent. of the dairy products consumed in the State. We are anxious to see some one take up cheese making as a farm industry. At present there is no cheese made in the State and yet the consumption is large.—Ed.

SHALL WE WINTER THE FALL CROP OF PIGS?

Editor Southern Planter:

With pork selling at almost the highest price in fifteen years and the South purchasing thousands of car loads of these high-priced products annually, the market hog ought to riv t the attention of the Southern farmer at this time, if never before; and he should do this the more when the farmer knows, or ought at least to know, that pork may be produced in the Southeast at one-half the cost of production in the West. The writer knows that the above statement of cost of pork production has been made by writers in the South times without number and as many times accepted by our farmers with the proverbial "grain of salt," and they have gone right ahead producing their single crops of tobacco, corn, cotton, etc., for sale as raw products and purchasing their meat in Chicago. But with common side meat selling for as much per pound as tobacco or cotton, and the proof at hand for use of the Southern farmer that he can produce on his farm anywhere in our section pork at one-fourth the cost per pound of the cost of growing tobacco and one-half the cost of producing the average pound of cotton, it seems to me that the farmer who allows his brain to dictate as to how he shall conduct his business must consider seriously the claim of the lowly hog. And the hog fits in so well with the idea of soil improvement that is abroad in the South with such force at the present time, it being a well accepted fact that the grazing hog is the money-making hog to-day, as he always has been, and almost as well an accepted fact that grass and other sods are the foundation of permanent soil improvement in the South as in every other section. It so happens that the fall cover crops and sods, that are so very necessary to the conserving of the fertility of Southern soils during the winter months, are the ideal grazing crops for pigs

also, so if there is big money in pork production in the South, and almost as big money in building up and reclaiming Southern soils, what could be better business sense than combining these two money-making factors and thus secure the profits from each by the growing of winter pigs on winter growing, soil binding, nitrogen gathering grazing crops, such as crimson clover, rye, winter oats, red top and sapling clover, etc., all of which may be grown almost anywhere in the South by giving the sowing of them attention at the proper time. With an abundance of these crop to draw on one dollar corn need have no terrors for the man who is producing 10 and 11-cent pork in our own section, because we have found by actual test, not once, but time and again, that good, thrifty, well-bred pigs running on grazing crops, such as I have named, will pay \$1 to \$1.25 per bushel for every bushel of corn needed to keep them in a thrifty, growing condition.

But these pigs must be of the "stutchy," growthy sort, must have comfortable, dry sheds, free from dust and well bedded for their sleeping places, and must be kept free from lice, mange, etc. This last can easily be done by having on hand a cheap spray pump—such as may be purchased for two dollars—and every two weeks confining the pigs in a small space, such as a box stall, and giving them a thorough spraying with a preparation of any of the cattle dips, one of dip to forty of water, with one-fourth of the amount of kerosene oil added that there is of the other mixture. Gather the pigs up during warm spells of weather, spray them thoroughly as above stated and you will not be troubled with lice if the bedding of the sheds be changed and the sheds themselves be sprayed at the same time the pigs are treated. We have called one hundred pigs in the stalls, swept their sheds, sprayed the whole bunch and rebedded the sheds in less than thirty minutes by the watch. So my readers will readily see that the cost in time is not great. But just keep in mind the "stitch in time," as it applies as well to the winter care of pigs as it does to everything else with which men have to deal in this hurrying world of ours.

The fall pig carried through the few winter months we have in the South on these grazing crops, fed a small portion of corn and given a very light sloop of shipstuff—enough to keep them sappy and strong—will grow right along and the first of March will find them big, fine fellows with their tails curled way up over their backs. Then continue them right along on the crimson clover and rye until these crops begin to get woody, when the land on which they have been grown will be ready to turn and be sown to peas and soja beans. Then the pigs will want to go into the common red clover and red top fields until the first of the early maturing peas are about a foot high. Then it should be peas and grass with a little old corn, for Mr. Jim Pig, until August 15th, when he will be ready to take a light feed of soft corn along with his peas, increasing his corn feed gradually until about October 15th, when he will be a great big hog ready to be turned into cash, and when this cash has been counted you will find, my friends, that it is the best money you have made on your farm during the year. He will have left behind him pleasant memories, a richer soil, and a pleasant feeling in your pocketbook

At least these are what he leaves with us on Sunny Home Farm.

Rockingham Co., N. C.

A. L. FRENCH.

CATTLE QUARANTINE.

Counties That Are to Remain in Quarantine for the Next Season.

Editor Southern Planter:

The Federal and State quarantine authorities have suggested to the Bureau of Animal Industry to release the counties of Mecklenburg, Brunswick, Lunenburg and the Bruton District of York County from quarantine on and after the first of November, 1909. If this suggestion is carried out by the Bureau of Animal Industry at Washington—and there is little doubt but that it will be carried out just as reported—the territory in Virginia to remain in quarantine for the year 1910 will be as follows:

Chesterfield, Greensville, Isle of Wight, Nansemond, Southampton, Surry, Sussex, York (excepting Bruton District), and that part of Warwick not included in the Newport News Magisterial District, and the county of Fluvanna.

We are indeed sorry to have to include the counties of Fluvanna and Warwick in the quarantined territory for next season, for when one considers the vast territory in this State which has been cleaned of cattle ticks during the last few years, it is distressing to note at the same time that two counties that were above the line a few years ago are now quarantined. Nevertheless, the people of Fluvanna county are certainly doing good work now to rid the county of ticks, and we hope November, one year hence, to take Fluvanna county out of quarantine never to see her go below the line again. Only last January the said county of Fluvanna put the "no-fence law" into operation. In the opinion of the writer, the free range system was the cause of the quarantine being placed around the borders of Fluvanna county. Owing to the free range system, after a few ticks got into the county they were scattered from farm to farm as well as deposited elsewhere, in many cases infecting the highways and "commons." However, good work has been done in the said county during the last year and now that no cattle are allowed to run at large there we hope to clean up next season and then place Fluvanna where she belongs when free of ticks—far above the line.

When we look back just a few years and note the fact that thirty three counties in Virginia were then below the cattle quarantine line and, on the other hand, now count only ten counties—two of them having free districts for next year—which are below the line in Virginia for next season, all of us who are interested in the development of the Old Dominion, and especially in her live stock interests, will be delighted at the progress which has been made in tick eradication in Virginia during the last few years. While as State Veterinarian I have tried to do my best in this work, and feel proud of the results, yet the Bureau of Animal Industry, Washington, D. C., has been of the greatest help to us along this line, and I am glad to acknowledge that Dr. T. M. Owen, Inspector in Charge, sent here by the Bureau, is doing a wonderful work in Virginia in tick eradication. As to Virginia's part, the State Live Stock Sanitary Board and the County Boards of Supervisors, together with this office, have sim-

ply formed a combination against which the cattle tick could not continue to thrive and reproduce its kind, thus the State is fast being cleaned of the pest.

Burkeville, Va.

J. G. FERNEYHOUGH,

State Veterinarian.

We congratulate the authorities on the effective work done. It means thousands of dollars to our farmers.—Ed.

INCREASING THE CAPACITY OF A DAIRY HERD.

Editor Southern Planter:—

The most casual observer can see the improvement in a dairy herd resulting from the use of a pure-bred dairy bull, but to fully appreciate the improvement (not only in the type and general appearance, but also in actual results at the pail) records should be kept and carefully studied.

The record is an interesting history of each animal and contains a great deal of data of special interest to the breeder and dairyman who is studying his individual cows. It enables him to fix in his own mind the values of the different animals. Not only is this information valuable from the standpoint of the breeder who raises stock to sell, to the dairyman who occasionally has stock to sell, but it is practically essential to the ultimate success of the dairyman who should have a guide of actual performance to help him select his heifers for his own use in the herd. The cost of keeping such records is entirely insignificant as compared with the great good to be derived from them.

The record, if kept for a period of years, is also valuable in that it shows whether or not any progress is being made, not only from year to year, but also through a period of years. It is always in the mind of the thoughtful and ambitious dairyman as an incentive to better results next year. It is more than worth the trouble—a thousand times more!

In 1903 the Hollins' herd consisted of some twenty-odd grade Jerseys, grade Shorthorns, and cows of mixed breeding—and several grade Holstein-Friesian heifer calves. There were at that time only two pure-bred Holstein-Friesian cows in the herd. Several females have since been added by purchase, but the bulk of the herd, which now contains sixteen pure-breds in milk, sixteen pure-breds not yet fresh, and six grades in milk, was born and raised on the farm.

In the fall of 1903 I commenced weighing and recording the milk of each cow. This record is as follows.

Hollins Herd Record.

Pounds of Milk
Per Cow.

From October 1, 1903, to October 1, 1904.....	4,000
From October 1, 1904, to October 1, 1905.....	5,020
From October 1, 1905, to October 1, 1906.....	6,867
From October 1, 1906, to October 1, 1907.....	6,536
From October 1, 1907, to October 1, 1908.....	8,906
From October 1, 1908, to October 1, 1909.....	8,913

It is interesting to note that not as many cows were kept during 1907 and 1908 and during 1908 and 1909 as were kept back in 1903 and 1904, and yet the capacity—the average capacity—of the entire herd has been more than doubled.

In order to further demonstrate the wonderful power

of a pure-bred sire in a herd I give below the records of the grade heifers.

Had it been possible for me to have gotten a greater number of grade heifers into the herd and to have disposed of the original cows faster, the record would have been better and would have increased much more rapidly. The record of the grades is as follows:

Pounds of Milk to October 1, 1906.

Minnie, first calf March, 1906.....	4,896
Lew, first calf March, 1906.....	4,014
Junie, first calf May, 1906.....	4,057
Sunday, first calf May, 1906.....	4,749
Pounds of Milk from October 1, 1906, to October 1, 1907.	
Junie	8,730
Sunday, second calf June, 1907.....	7,068
Toughy, first calf January, 1907.....	6,433
*Whiteface, first calf March, 1907.....	6,264
*Minnie, second calf April, 1907.....	5,649
*2d Leila, first calf February, 1907.....	4,766
Lew	4,957
Gray Spot, first calf March, 1907.....	3,602
Bunkie, first calf August, 1907.....	2,403
Pounds of Milk from October 1, 1907, to October 1, 1908.	
Bunkie, second calf June, 1908.....	14,617
Junie, second calf February, 1908.....	11,330
Lew, second calf November 1907.....	10,758
Sunday, third calf May, 1908.....	10,712
Toughy, second calf December, 1907.....	9,576
Gray Spot, second calf October, 1907.....	7,592
Crumpy first calf July, 1908.....	2,808
Pounds of Milk from October 1, 1908, to October 1, 1909.	
Junie, third calf March, 1909.....	12,239
Toughy, third calf February, 1909.....	11,198
Sunday, fourth calf June, 1909.....	10,736
Bunky	10,697
Lew	8,894
*Crumpy	8,339

*Disposed of.

Especial attention is called to Bunkie freshening with first calf in August, 1907. She has never been dry and in two years and two months has given 27,717 pounds, an average of over four gallons a day for the entire period.

The process of elimination and selection has gone on continually and in a short while these fine grade cows will be disposed of to make place for better pure-breds. It can be seen that the accurate data as to the capacity of the cows will enable the seller to sell to greater advantage than he could otherwise.

It is interesting to note that these young cows are all by a Holstein-Friesian bull and out of cows of mixed breeding that averaged in 1903-1904 only 4,000 pounds of milk.

JOS. A. TURNER.

Roanoke, Co., Va.

THE COW FEEDING PROBLEMS.

Editor Southern Planter:

How many dairymen realize the importance of studying the feeding question? The proper feeding of cows is a most important matter and is also a matter of dollars and cents to every farmer.

In the first place, the cow needs so much feed to maintain her condition just as she is, and so much in addition

for each pound of milk produced—this is no very hard matter to understand. We dairymen all know that "we" can't determine or estimate how much timothy or clover hay and how much wheat bran will be necessary for this maintenance, but we can get this information from persons who have found it out. Scientists have determined, after a long series of experiments, how much feed is necessary to maintain an animal without loss. In doing this, however, they have had to determine the elements common to every food which can be absorbed by the digestive system and conveyed by the blood to every portion of the body and used to build up waste tissues. These elements are known as protein, carbo-hydrates and fat, and we find in every feed these materials in varying proportions.

The feeder is not interested so much in the amount of these materials present in a feed, but in the available protein, the available carbo-hydrates and the available fat in the feed which they propose to use. Only the available nutrients in any feed can be used by the animals to which the feed is given.

Scientists, therefore, have spent a great deal of time determining the available nutrients in standard feeds, and a book on feeding will show the available percentage of protein, for instance, in wheat bran, wheat middlings, corn meal, corn and cob meal, and all the grains and by-products from the manufacture of grain as well as hays of all kinds. The feeder, then, with this information, can determine the available protein, carbohydrates and fat in any feed he may be using, unless it be a mixed feed, the ingredients of which are not given, as no one will take the time to determine the digestibility of any mixed feed, the reason being that the assurance cannot be had that a mixed feed will be maintained the same all the time. Feeders ought to be shy of using mixed feeds when the constituents and proportions used are not given, while the composition means something the available constituents might be far short of what the feed appears to contain.

The feeder then wishes to first feed his cow the necessary amount of protein, carbo-hydrates and fat for maintenance which have been determined approximately to be .07 pounds protein, .7 pounds carbo-hydrates, .01 pounds for each 100 pounds of weight of an animal and for each pound of milk produced she must have .05 pounds protein, .22 pounds carbo-hydrate, .017 pounds fat. A cow should be fed protein, carbo-hydrates and fat in excess of her ability to produce milk until her capacity has been reached for milk production, when the amount can be cut down until it corresponds about to what the cow is doing, but there should always be some nutrients fed in excess so that the cow can have the means of producing up to her capacity all the time.

It is evident to the reader that two cows standing side by side and fed the same amount of nutrients, that in the case of one she might not be producing but a small amount of milk and conditions might be such (she might be going dry) that she could not produce a larger amount. On the other hand, the other cow might have the ability to produce quite a little more milk than she might be producing if she had more feed from which to produce it, and the additional feed the one cow might be getting over and above what she needed, if transferred to the other, might make quite a difference in the production of

this other cow and cost the feeder nothing. Does not this make it appear that feeding with some knowledge of what one is doing pays?

A table is given below showing the different amounts of digestible nutrients found in the feeds named and in from one pound of the feed named in some cases to forty pounds in other cases, and if any one who may be using these feeds named may desire to do so, he can easily determine in any case the amount of nutrients fed to each animal and determine if any one of his animals is consuming more nutrients than their production will justify. It is interesting to note the comparative values of feeds as shown by this table.

We observe, for instance, that in the case of wheat bran and cotton seed meal the constituents other than protein practically balance each other in the two concentrates named, and we have for comparison only the protein (it must be noted that we are dealing only with the digestible protein, etc., in these tables). We observe that cotton seed meal contains in one pound .372 pounds of protein; bran, on the other hand, contains .129 pounds of protein in one pound. It is conclusive, therefore, that cotton seed meal, pound for pound, has just three times the feeding value that bran has. In other words, when bran is \$30 a ton, cotton seed meal is worth \$90 a ton. When compared with bran, when we can buy cotton seed meal at about the same price as bran then our nutrients are costing us only one-third of what they would be if we were using bran. A comparison of corn silage with wheat straw shows silage to be worth twice as much, pound for pound, and that too when silage is about 80 per cent. water and wheat straw only about 20 per cent. water.

Lbs	CORN FODDER			CORN STOVER		
	COMPOSITION			COMPOSITION		
	DIGESTIBLE			DIGESTIBLE		
	Protein	Carbo Hydrates	Fat	Protein	Carbo Hydrates	Fat
5	.125	1.730	.060	.085	1.620	.035
6	.150	2.076	.072	.102	1.944	.042
7	.175	2.422	.084	.119	2.268	.049
8	.200	2.768	.096	.136	2.592	.056
9	.225	3.114	.108	.153	2.916	.063
10	.250	3.460	.120	.170	3.240	.070
11	.275	3.806	.132	.187	3.564	.077
12	.300	4.152	.144	.204	3.888	.084
13	.325	4.498	.156	.221	4.212	.091
14	.350	4.844	.168	.238	4.536	.098
15	.375	5.190	.180	.255	4.860	.105
16	.400	5.536	.192	.272	5.184	.112
17	.425	5.882	.204	.289	5.508	.119
18	.450	6.228	.216	.306	5.832	.126
19	.475	6.574	.228	.323	6.156	.133
20	.500	6.920	.240	.340	6.480	.140

Lbs.	CORN AND COB MEAL			CORN		
	COMPOSITION			COMPOSITION		
	DIGESTIBLE			DIGESTIBLE		
	Protein	Carbo Hydrates	Fat	Protein	Carbo Hydrates	Fat
1	.044	.60	.029	.079	.667	.043
2	.088	1.20	.058	.158	1.334	.086
3	.132	1.80	.087	.237	2.001	.129
4	.176	2.40	.116	.316	2.668	.172
5	.220	3.00	.145	.395	3.335	.215
6	.264	3.60	.172	.474	4.002	.258
7	.308	4.20	.203	.553	4.669	.301
8	.352	4.80	.232	.632	5.336	.344
9	.396	5.40	.261	.711	6.003	.387
10	.440	6.00	.290	.790	6.670	.430

Lbs.	CORN SILAGE			WHEAT STRAW			Lbs.
	COMPOSITION			COMPOSITION			
	DIGESTIBLE			DIGESTIBLE			
	Protein	Carbo Hydrates	Fat	Protein	Carbo Hydrates	Fat	
10	.090	1.130	.070	.004	.363	.001	1
11	.099	1.243	.077	.008	.726	.008	2
12	.108	1.356	.084	.012	1.089	.012	3
13	.177	1.469	.091	.016	1.452	.016	4
14	.126	1.582	.098	.020	1.815	.020	5
15	.135	1.695	.105				
16	.144	1.808	.112				
17	.153	1.921	.119				
18	.162	2.034	.126				
19	.171	2.147	.133				
20	.180	2.260	.140				
21	.189	2.373	.147				
22	.198	2.486	.154				
23	.207	2.599	.161				
24	.216	2.712	.168				
25	.225	2.825	.175				
26	.234	2.938	.182				
27	.243	3.051	.189				
28	.252	3.164	.196				
29	.261	3.277	.203				
30	.270	3.390	.210				
31	.279	3.503	.217				
32	.288	3.616	.224				
33	.297	3.729	.231				
34	.306	3.842	.238				
35	.315	3.955	.245				
36	.324	4.068	.252				
37	.333	4.181	.259				
38	.342	4.294	.266				
39	.351	4.407	.273				
40	.360	4.520	.280				

say that clover hay has two and a half times the feeding value of timothy hay, and consequently is worth two and a half times as much. When timothy sells for \$10.00 a ton, clover hay can be used to just as good advantage at \$35.00 a ton.

We find from results obtained by scientists that the amount of available nutrients to maintain an animal of 800 pound weight per day is as follows: Available protein, .56 pounds; available carbo-hydrate, 5.6 pounds; available fat, .08 pounds.

Where such feeds can be obtained as corn silage, corn stover, clover hay, wheat straw, wheat bran, cotton seed meal, we find that 10 pounds silage, 10 pounds stover, 10 pounds wheat straw, half pound cotton seed meal gives as follows of digestible nutrients:

	Protein.	Carbohy.	Fat.
10 lbs. silage	.180	2.2600	.140
10 lbs. stover	.170	3.2400	.070
10 lbs. wheat straw	.004	.3630	.004
½ lb. cotton seed meal	.186	.0845	.061
	.540	5.0475	.275

The totals we find being about as near as we can get them to what is required for a maintenance ration for an 800-pound cow. The above then would be an economical ration for an 800-lb. animal per day at rest for maintenance only. If she should be producing milk then an additional amount of nutrients would be required in proportion as she was producing milk. Each pound of milk requires for its production nutrients as follows: Digestible protein, .05 pounds; carbo-hydrate, .22 pounds; fat, .017 pounds, then twenty pounds of milk would require: Digestible protein, 1.00 pounds; carbo-hydrate, 4.4 pounds; fat, .34 pounds, which, added to the ration for maintenance required for an 800-pound cow, gives as follows: Total digestible nutrients—Protein, 1.56; carbo-hydrate, 10.; fat, .42 required for an 800-pound cow producing twenty pounds of milk daily.

We find after experimenting with various proportions of feed given that 25 lbs. silage, 10 lbs. clover hay, 4 lbs. wheat straw, 4 lbs. wheat bran and half lb. cotton seed meal will about provide the amounts of digestible nutrients required, as upon reference to the tables we find the digestible nutrients as follows:

	Protein.	Carbohy.	Fat.
25 lbs. silage	.225	2.825	.175
4 lbs. clover hay	.680	3.580	.170
4 lbs. wheat straw	.016	1.452	.016
4 lbs. wheat bran	.516	1.604	.136
½ lb. cotton seed meal	.186	.084	.061
	1.623	9.545	.558

As the fat in a feed for the most part serves the same purpose as the carbohydrate, we can determine the value of the fat in terms of the carbo-hydrate by multiplying the fat by 2.4. We find, then, that the ration we are estimating has as follows: Digestible nutrients—protein, 1.623; carbo-hydrate plus fat, 10.884; and the maintenance ration plus the ration corresponding to the production of twenty pounds of milk, we find as follows: Digestible nutrients—protein, 1.56; carbo-hydrates + fat X 2.4, 10,850.

It appears, then, that the ration which has been suggested (Continued on Page 1065.)

Lbs.	COTTON SEED MEAL			WHEAT BRAN			Lbs.
	COMPOSITION			COMPOSITION			
	DIGESTIBLE			DIGESTIBLE			
	Protein	Carbo Hydrates	Fat	Protein	Carbo Hydrates	Fat	
1	.372	.169	.122	.129	.401	.034	1
2	.744	.338	.244	.258	.802	.068	2
3	1.116	.507	.366	.387	1.203	.102	3
4	1.488	.676	.488	.516	1.604	.136	4
5	1.860	.845	.610	.645	2.005	.170	5
6				.744	2.406	.204	6
7				.903	.807	.38	7
8				1.032	3.208	.272	8
9				1.161	3.609	.306	9
10				1.290	4.010	.340	10

Lbs.	TIMOTHY HAY			CLOVER HAY		
	COMPOSITION			COMPOSITION		
	DIGESTIBLE			DIGESTIBLE		
	Protein	Carbo Hydrates	Fat	Protein	Carbo Hydrates	Fat
5	.140	2.170	.070	.340	1.740	.085
6	.168	2.604	.084	.406	2.148	.102
7	.196	3.038	.098	.476	2.506	.119
8	.224	3.472	.112	.544	2.864	.136
9	.252	3.906	.126	.612	3.222	.153
10	.280	4.340	.140	.680	3.580	.170
11	.308	4.774	.154	.748	3.938	.187
12	.336	5.208	.168	.816	4.296	.204
13	.364	5.642	.182	.884	4.654	.221
14	.392	6.076	.196	.952	5.012	.238
15	.420	6.510	.210	1.020	5.370	.255
16	.448	6.904	.224	1.088	5.728	.272
17	.476	7.378	.238	1.156	6.086	.289
18	.504	7.812	.252	1.2 4	6.444	.306
19	.532	8.246	.266	1.292	6.802	.323
20	.560	8.680	.280	1.360	7.160	.340

A comparison of timothy with clover hay shows that clover hay has about two and a half times as much protein as is contained in timothy hay, and as carbo-hydrates plus 2.4 the fat is approximately the same in both; we can

The Poultry Yard.

POULTRY NOTES.

Editor Southern Planter:

I have many letters asking this question, "How can I feed my hens to make them lay eggs?" I have written many times about this question, and will say again what I have so often said. This is the season of rest and recuperation for the hens, and it is next to impossible to make a hen lay eggs when she is moulting. Early hatched pullets of the small breeds should be laying now if they are from good laying strains and have been well fed. They must be mature before they will lay. To be mature they must have been well fed from the day they came out of the shell until they begin to lay. The large breeds will not lay until they are seven to nine months old and they must be well fed to do even this. If we allow our young stock to run at large and do not give them good care and feed they will not begin to lay until they are fully mature no matter how well we feed them at this time. A very few of the yearling hens will lay during the molt, but many of them can be made to do so. Fed liberally with wheat, cracked corn, soaked or sprouted oats, bran and meat meal, with a good run on grass is all that can be done and all that is necessary to make them lay if they are the right kind of stock. One trouble with many of the hens and pullets at this time of year is lice and mites. The houses must be free from mites and the fowls must be free from body lice. We have tried the old French method of killing body lice this season and find it equal to and better than some of the much advertised lice killers. This is to wash the fowls in a strong salt brine. This is not so very hard to do and is very effectual. Take a large iron kettle and make it full of brine. Make it strong and then make it warm, about 100 degrees is right, and keep it at that heat, then in the warmest part of the day catch the hens and pullets—every one of the flock—and give them a good soaking in the brine. Be sure that you get them wet thoroughly all over to the skin and drain and press the brine out of the feathers as much as possible and let them have a sunny place to dry and you will be rid of every kind of body lice. Keep the fowl's head in your hand while washing them so they will not get any brine in their mouth or eyes. When you are done washing make the brine boiling hot and go over the roost poles and the interior of the house and you will be rid of the mites. Lice and mites breed very rapidly during the warm season and if not kept in check they will soon impair the vigor of the flock and no eggs will be the result. Grit, oyster shell and fresh water are very important factors, too, at this season of the year.

This is a good time to cull the flock for winter layers. If one has more hens and pullets than wanted to winter over it is better to sell now than to feed and keep them longer. Cull out and sell all the old hens not wanted and also all the pullets and cockerels not wanted. Prices are fully as good now and possibly better than they will be later in the season and one will save considerable in the feed bill. A good flock of 50 or 100 hens and pullets well fed and cared for will give a greater profit than twice this number neglected and allowed to shift for themselves.

Turkeys should be put on full feed now and given extra care and attention in order to get them in good condition for the National holiday. Present indications are that turkeys will bring good prices and those who have good ones should get good prices for them.

Our flock is gradually decreasing by night and by day. If any of the readers of these notes can give a sure method of catching or killing chicken thieves it will be thankfully received by your humble servant. We have our house proof against thieves now, but they get them in the daytime. We cannot watch them all the time, and in some way the chickens disappear in pairs and trios and quartets about every time we go away.

There is much discussion going on through the poultry press about incubator chicks and brooders, and I have been asked by a number of subscribers to give my views. I am willing to allow the discussion to proceed as it is going. I have my opinion as to the cause or causes of the frightful mortality and have stated it several times in these notes, and I have no reason to change my views. It is not always the fault of the eggs or the breeding stock, as the incubator men would have us believe. It is the fault of the hatching, brooding and feeding combined. Here is my idea in a very concise statement: The chicks do not have enough fresh, warm air at hatching time, say the last five days. Too many are put in a bunch in the brooders and the air is not warm enough for them and the brooders are not ventilated sufficiently at all times. Chicks are fed too soon and too much at a time and do not have enough exercise. If a chick is hatched strong and vigorous it does not matter how it is hatched. If it is kept warm and dry it does not matter how it is done. If it is fed right and the right kind of feed it does not matter where it is, or how it is, done. Next month I will give my experience with the various machines I have used and the way I have succeeded in hatching good chicks with any of them and how I have succeeded in raising nearly all the chicks hatched when I followed the course laid down by common sense.

CAL HUSSELMAN.

SICKNESS IN LARGE AND SMALL FLOCKS.

Editor Southern Planter:

Having promised to give your readers a faithful account of our experience in developing a family flock of large-strain Barred Plymouth Rocks to the limit of profit on a 90-acre farm—with a 200-acre farm available for the use of two additional flocks all under my management—and having for two years reported progress as to the increase and income, it is now only fair that I should report my experience with certain ailments with notes on treatment.

In the first place let me say that I am no hen-doctor. My experience of over thirty years has been with healthy fowls. In all that period our flock of Rocks has never been decimated by any contagious disease. Occasionally a hen would die. This happens in every flock and on every farm and in every feeding experiment, no matter how conducted if it includes any considerable number of birds.

When we kept twenty hens if one of them developed a swelled head we cut it off and thought no more about it.

But since we have increased the flock to ten times twenty, if ten hens are ailing we do not feel "able" to lose them, and so we must see what can be done to save them. It is not necessarily true that there is more sickness in large than in small flocks, but it is true that as the profit per hen is smaller in a big flock the owner can less readily afford to stand the loss incident to a normal death rate than can the owner of a small flock. Consequently where large flocks are kept we should have a hospital room where all invalids can be isolated from the flock and kept under close watch, and be either killed or cured as our judgment and the nature of the disease may determine.

Last winter we had nearly 100 of our largest pullets in a new house in a new location on fresh cleared stumpland. They were moved to this house in September and all went well till about the middle of January or later. Then I was away from home for a week. When I returned I heard of trouble at the "North House." The children had found three pullets with eyes almost shut and a number of others were making a great noise when breathing. I investigated and said to myself that at last I was "in for a siege of roup," but I knew that we had seen an occasional swelled head or a closed eye in years past and had once or twice rubbed them with kerosene and lard and saved them. However, this involved a choice lot of birds for which I had refused a good price, it was our first year with a big flock and we must fight it out unless defeat seemed certain, in which case, to market the flock would go. We fixed a coop in a well lighted basement room and put those which were either blind or stupid under hand treatment. We gave the flock copperas in the drinking water and on several mornings went early to the house, took each bird from the perch and immersed the head in a solution of equal parts of peroxide of hydrogen and water. Those under hand care in the basement were similarly dipped twice a day, and the worst cases had mouth and eyes swabbed out with a tuft of cotton on a wire dipped in the same solution. When there was much swelling we also applied kerosene and lard.

Within a week sporadic cases similar in appearance were found in three other new houses far removed from the "North Houe," and in flocks which did not mingle with each other. We stopped all our advertisements and declined to ship orders already placed. We hardly had more than a half dozen requiring twice-a-day treatment at any time and we did not lose a fowl, so I am now questioning whether we really had roup after all. As the bad cases recovered they were fattened and killed, for we did not care to breed from anything which had proven so susceptible to rouplike affections.

With a total of over 300 birds exposed to this trouble it seems little short of miraculous that we should have saved every bird and eliminated all signs of the trouble before the opening of spring. If our eleven-year-old girl had not proven such a competent and faithful nurse and surgeon we would probably have lost a few which were entirely blind, and were hand-fed for a few days at a time. Her morning and evening ministrations, however, saved their lives and eyes and brought them into fine market condition.

Meantime the two flocks which remained on the old home place went through the winter without any sickness whatever. Now arises a question of prevention or preparation to resist such an attack.

First of all I would say that the stock bred from was most important. I believe that 31 generations of big, rugged farm-bred ancestors had something to do with the ability of our birds to withstand what threatened to be a serious epidemic, for there is no doubt that in . . . form this trouble was highly contagious for I brought in a vigorous cockerel from the old place and after three days of close contact with ailing birds he developed about the worst case on the place.

We are fore-fending against a repetition of our trouble by keeping over a larger number of yearling hens, for our yearlings were hardly affected at all last winter. We have culled our young stock by marketing the poorly marked during the early season. Next by killing the smaller birds in the early broods, and now by systematically killing out those in each brood which are behind their fellows in size or vigor. Strong farm stock must be bred from birds of substantial worth, not from parents which have merely succeeded in surviving disease. We reaped part of our reward for killing some of our best cockerels which had taken a turn in the hospital, when we sold over 5,000 eggs for hatching this season without a complaint of low fertility. Had we bred from fowls weakened by disease we could hardly have made this record.

All sick fowls should be killed. This is a safe rule. But if we have many sick it will pay to cure them first and kill later, but do not forget and turn them loose with the breeding stock. You cannot afford it.

Vienna, Va.

W. A. SHERMAN.



OUR TENT IN POSSESSION OF THE "FAIR" SEX.

A border that is planted in the fall needs some protection in the winter to keep the plants from heaving from frost. Leaves of deciduous trees, pine leaves, and hay are all good for protection. The protection need not be applied until the ground is well frozen, say about the first week in December; nor need the covering be very thick—two or three inches is enough to prevent alternate freezing and thawing, by which the plants are thrown out of the ground. Remove the covering in the spring, just as soon as the weather will permit.

The Horse.

THE HORSE.

By W. J. Carter (Broad Rock).

William Aster Chanler has developed a desire to race in France and has summoned his entire stud to the Continental Republic. Mr. Chanler's horses are now at the old farm of Walter Jennings, near Leesburg, in Loudoun county, which is one of the richest grazing districts in Virginia. The stud consists of the fine chestnut stallion Olympian, by Domino, dam Belle of Maywood, by Hunter's Lexington, while thirteen mares, among them some of the choicest bred matrons in America make up the court of this full brother to the great race horse, Tenny, who was bred at James R. Keene's far-famed Castleton Stud at Lexington, Ky. One of Mr. Chanler's mares is Salama, the daughter of Himya that produced the distinguished race horse, Waldo, winner of the Saratoga Special and Flatbush. This queenly matron was purchased last year for a mere song before most people knew anything about Waldo., Olympian is a magnificent looking horse and the peer of any member of the Domino family in America. He was a two-year-old with Commando, Cap and Bells, Conroy and Tommy Atkins, and acquired some distinction by being placed in the Futurity. Seeing that the male line of both Himyar and Domino has been singularly potent, it is thought by Mr. Chanler that Olympian will breed on. The son of Domino made a season in the Antrim Stud of Dr. James Kerr, at Warrenton, Virginia before being taken to Mr. Chanler's breeding establishment, near Leesburg, and there will be some two-year-olds by him out next season.

J. H. McGavock, of the Fort Chiswell Stud, at Max Meadows, Virginia, has sustained quite a severe loss in the death of Flatlands, which occurred recently and was due to an attack of pneumonia, which carried the horse off in less than two days after diagnosis of the trouble. Flatlands was foaled 1899, bred by Commodore N. W. Kittson, in the famous Erdenheim Stud, Chestnut Hill, Philadelphia. The chestnut stallion was sired by Imp. Woodlands, out of Maggie B. B., a great producing daughter of Imp. Australian, from Madeline, by Boston, and she out of Magnolia, by Imp. Glencoe. Flatlands was the twentieth and last foal of his noted dam, Maggie B. B., who also produced the English Derby winner, Iroquois, and the close relationship of Flatlands to the latter was frequently a subject of comment when the son of Woodlands was mentioned. The greater part of the life of Flatlands was spent in the stud at Fort Chiswell, where the chestnut stallion got a number of winners both on the flat and over the jumps, though, as a sire of cross country performers, his greatest success was attained, as from his loins came Land of Clover, one of the best steeplechasers of recent years, and champion of 1903; Gum Honey, Flacus, King Carter, Poorlands, Lizzie Flat, and others.

Dr. Fraser A. Smith has returned from a visit to relatives at his old home in Canada and is a busy man at his veterinary hospital on Tenth street. Soon after his graduation at the Ontario Veterinary College, Dr. Smith located in Richmond and since coming to Virginia he has

steadily advanced in his chosen profession. The genial Canadian is from a family which has furnished veterinarians of note for many years, including the Messrs. Haggard, now of Lexington, Ky., who have at different times been connected with the great breeding establishment of J. B. Haggin, Marcus Daly and other widely known owners of thoroughbred and trotting horses.

In the big training barn at Stoneridge Farm, near Richmond, Irving J. Coffin has a string of well-bred trotters and pacers that are now being jogged on the road and that will be wintered on the place. R. L. Peters has the horses in charge and those in his hands include Wealth, 2:10, the brown pacer, by Gambetta Wilkes, 2:11¼, dam Magnolia, by Norfolk, 3670; Dr. Opera, brown colt, 3, by Dr. Mason, 2:11¼, dam Lady Opera, by Cecilian; and Clemmons, the black yearling colt by Wiltomont, 2:14¼, dam by Dalmarch, 2:11½, a blue ribbon winner in his class at the Virginia State Fair this fall. Clemmons was bred and is owned by Mrs. V. K. Gould, of Blue Gap Farm, Lynchburg, and the son of Wiltomont, is one of the best looking trotting bred youngsters in all Virginia.

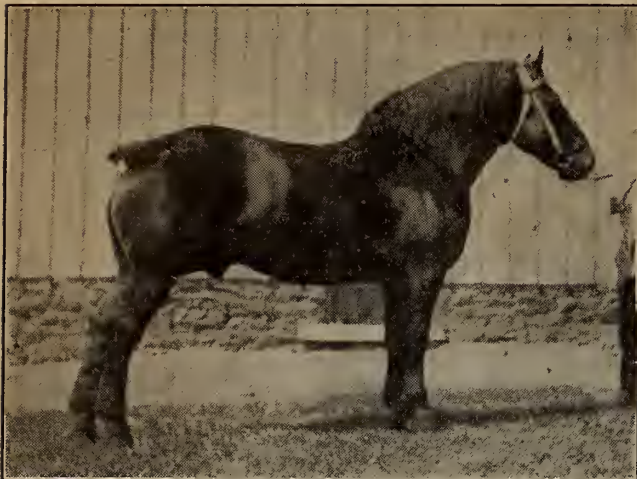
Royal Penn, the brown stallion, by William Penn, 2:07¼, that reduced his record from 2:13¼ to 2:10¼ in the first heat of the 2:14 trot and stood for second money in the race at the recent Kentucky Trotting Horse Breeders' Meeting, at Lexington, is out of Miss Nelson, 2:11¼, the dead daughter of Norfolk, son of Nutwood. Royal Penn is one of the handsomest stallions in training and able to trot several seconds faster than his record indicates under favorable conditions. Miss Nelson, the dam of Royal Penn, formerly held the record for Virginia bred trotters. The bay mare was bred by Preston Belvin, of this city, who owned her dam, Miss Lassiter, who was said to be by American Clay, but whose breeding was never satisfactorily traced. Norfolk was then the premier sire at Whitby Farm, near Richmond, and owned by the late H. C. Chamblin. Daughters of Norfolk have produced one 2:10 pacer in Wealth, son of Gambetta Wilkes, and the distinction of producing a trotter in that select list seems not far distant, as Royal Penn can accomplish the feat when favored by opportunity.

One of the best looking thoroughbred yearlings to be seen around Lexington, Ky., is a chestnut colt, bred by E. R. Bradley and sired by Cunard, dam the Virginia bred mare, Eonic, a daughter of Eon, son of Eolus, and Mirmal, Merry Day's dam, by Imp. St. Blaise. Eonic, a product of the Eilerslie Stud, at Charlottesville, long one of Virginia's best known and most successful breeding establishments, was a superior race mare herself, while since being retired to the stud she has thrown Royal Penn, one of the best two-year-olds seen on the Canadian Circuit this season. Eonic won twenty-two races, including the Fleur-de-Lis Handicap, Lissak Stakes and the \$10,000 Burns Handicap. Penn was her first foal and bred back to Cunard, the daughter of Eon, produced the yearling colt that now gives promise of making a race horse.

(Continued on Page 1067.)

CHAMPION STALLION OF FRANCE COMES TO VIRGINIA.

Many of our readers saw at the recent State Fair, the great Percheron stallion, "Etudiant" Champion of France, recently purchased and imported by Mr. E. B. White of Selma Stock Farm, Leesburg, Va. At present this horse stands as the greatest horse of the breed. He won the Championship of France and for four successive years he won the blue ribbon at Nogent, the greatest Percheron show of the French republic. Mr. White secured this horse from M. Avelou whose chief sire he has been for the past three years.



"Etudiant" was posed by a Paris artist as a model for the big bronze horse on the Nogent le Rotreu show grounds in 1907.

This horse, of course, won the blue ribbon at the Virginia State Fair as did several mares from the Selma stables, including the thrice champion of France.

With the addition of "Etudiant," Mr. White has a Percheron establishment second to none in this country, all of which emphasizes the fact that Virginia is rapidly forging to the front as a great live stock State.

PERCHERONS vs. PUNCHES.

Editor Southern Planter:

In your issue for October you took issue with me in regard to my comments on the Suffolk Punch, and you anticipated me by saying that I would say your partiality for the "Punch" was because you were an Englishman. Now you strongly demonstrated this fact in your article when you said: "The Englishman the world over has the reputation for knowing a good horse and for having the ability to produce him, fitted specially to meet different conditions and requirements and he is not afraid to back his products in these different lines against the world, etc." Now let me call your attention to the facts that stand undisputed and are known the world over: First, the Thoroughbred used to be called the "English Thoroughbred" because it was an English product and has been bred by the lords and kings of England for generations, and there are in England hundreds to one that this much younger country can show, but Keene, Harper, Whitney, the Lorrillards, the Bonners and others have bred horses in the U.

S. and gone to England and beat the English at their own game.

The French gave them their start in the draft horse line when William the Conqueror crossed the English Channel and invaded British soil. These Normans took big mares from Flanders that crossed with the English sires made the great English Shire or cart horse. The American breeders made the five-gaited saddle horse and the greatest road horse in the world, the trotter.

I made no criticism of Mr. Groome's Suffolk, simply because I did not want to select any one horse of a breed to back my opinion, but I called attention to the fact that he was the best specimen of the breed ever imported to the United States and I asked the readers of *The Planter* to go to the State Fair and see him, and compare him with the average Percheron stallion. The Punch may suit England but it has long since been demonstrated that he does not fill an American breeder's eye. His Majesty, King Edward of England, expressed the opinion, so I am reliably informed and have seen in journals; that the Armour team of six grade Percheron geldings was in June, 1907, the greatest draft team in the world, as they were shown at the Olympia, and I am led to believe that His Majesty is a good judge of horse flesh, and has seen all of the greatest Shires and Clydes in England and Scotland. Surely this is the best English authority and not a dealer's opinion.

Now to show you that I am not partial to any of the French breeds except the Percherons, I think the greatest carriage horses are the English Hackneys; the English founded the greatest breed of cattle in the world, the Short Horns, and no other country can compete with them and the Scotch in breeding the best. Mr. Shepherd of *The Planter*, heard my criticism expressed at Leesburg on Mr. Groome's Suffolk Punch and I named the points that were not as good as you will often find in an ordinary Percheron of the same weight. This was in the presence of Mr. G., who is too much of a man to object to an honestly expressed opinion even though it does not coincide with his own. I am afraid that those who have started out breeding "Punches" for farm horses will in a few years find that it would have been many times surer and cheaper to have gone into the market for their farm horses, but the world is composed of "many men of many minds."

In writing this article hurriedly and then reading it over I think it possible that some of your readers may imagine that I am "out of humor" and want to be discourteous, and therefore I will add that no one of any nationality is more esteemed for his good, straight-forward honesty than Mr. Jackson of the *Planter* by those who have the pleasure of an acquaintance with him, and far be it from me to write or intimate anything to the contrary or to be discourteous to him.

Rockingham Co., Va.

JNO. F. LEWIS.

SUDBOURNE DON.

Editor Southern Planter:

You published a letter from Mr. John F. Lewis in your October issue in which he refers to my Suffolk stallion (Sudbourne Don) and makes some statements in regard to his importation which are so incorrect as to require a public contradiction. He states that this horse won over all competitors in England, which is not the case as can

be seen by referring to his show ring record published in the September Planter. It is also not true that I gave an order for the best Suffolk that was for sale, and the writer of the letter in question has no warrant whatever for such an assertion. In regard to the horse's weight, I may say that he weighed to-day (October 18th) 1,900 lbs. on the public scales at Warrenton, and I have no doubt that he will, when mature, make the weight specified by me when I placed my order, that is 2,000 pounds.

So much for the specific statements in Mr. Lewis's letter in respect to my horse. Your correspondent then indulges in certain implications, the point of which I fail to see. He admitted to me at Leesburg that my horse was a good one, and this verdict was confirmed, as far as I could learn, by good judges at Richmond. Mr. Lewis has evidently seen very few Suffolks and is not competent, in my opinion, to discuss them with the assurance that he manifests in his contribution to your paper. Such a statement as this: "the 2,000 pound Suffolk is a rarity, and when attaining this weight is not a representative Suffolk, but a 'sport' or 'flake,'" can only have the effect of making its perpetrator ridiculous in the eyes of better informed horse men, and will eventually discredit him in Virginia when Suffolks become better known by the farmers of the State.

My advice to Mr. Lewis is to get away from his Percherons for awhile—take a rest cure, or, better still, trave about the world a bit with his eyes open, and get some new impressions.

H. C. GROOME.

A GRAND IMPORTATION OF SUFFOLK PUNCHES FOR VIRGINIA.

Editor Southern Planter:

I have just read with much interest the article in your October edition by Mr. John F. Lewis, apropos of the Suffolk Punch. Having sailed for England on September 8 and after spending two weeks in Suffolk, England, visiting the Suffolk farms, I landed in New York Monday, October 4th with seven head of Suffolks and I now feel that I know a Suffolk when I see one and that Mr. Lewis has a great deal to learn. I do not and will not criticize Mr. Groome's horse but I make the statement that there are hundreds of horses in England that weigh a ton and that I brought with me a mare, "Sudbourne Ruby" that I weighed this morning (Oct. 8) that tipped the scales at 2,160 pounds and she stood up in her stall from September 24th to October 6th. I also weighed a yearling stallion that weighed 1510 pounds that I brought with me. The above mare weighed 2,400 pounds when I loaded her on a train Sept. 24th in Suffolk. The impression has always prevailed that the Suffolk is a small horse and while he is not as tall as the Shire yet he has such tremendous girth that he is equal in weight to any breed in the world.

I quote from "The Suffolk Horse" written by Herman Biddle and published at Ipswich, England in 1879 as follows: "For the first three and twenty years of the Royal Society's existence, a prize was offered for 'the best horse for agricultural purposes' and the various breeds took their chances among specimens representing every variety. Of the three and twenty first prizes, fourteen went to Suffolk horses and the remaining nine represented the united success of all the other breeds which competed. The Suffolk horse was placed first at Oxford in 1839; Liverpool in 1841; Bristol in 1842; at Southampton, Shrewsbury, and

Newcastle in 1844-5-6; at York, Norwich, Exeter, Windsor, Lewes and Gloucester in 1848-49-50-51, 52, 53, at Chester in 1858 and at Leeds in 1861. In addition to these more than half the second prizes awarded during the same period were won by Suffolk horses. But the Society did well to separate the classes. Prejudice began to run high and distinct prizes for Clydesdales, Shires and Suffolks enabled the judges to give their decisions unbiased by predilections for particular breeds."

Mr. Lewis in his article asks "Why has the number of Percherons in the United States increased 400 per cent. in the past sixteen years and the increase in Suffolks has been imperceptible?" While this query has nothing to do with the merits of either breed, I will state for Mr. Lewis' benefit that the Suffolk horse is mainly bred in a section of England that is not as large as Fauquier Co., Va., while the Percheron horse is bred all over France and I venture to say that there are more registered Percherons in Virginia than there are registered Suffolks in England. It may be also interesting to Mr. Lewis to know that in the exportation of Suffolk horses for the years 1906 and 1907 the total number exported was 96 head divided as follows which averaged 48 head for each year:

Australia, 20; Argentine, 12; Ireland, 3; South America, 24; Canada, 23; United States 12; Sweden, 1; N. S. Wales 1.

Another reason for the scarcity of Suffolks in America is that they cost on the average more than any other breed and I quote a sale that took place at Stowlangtoft in 1875. Five mares sold at an average of \$670 and two 2-year-old colts at an average of \$1400 each. One nine-year-old mare brought \$1025.

My own shipment of seven head was the largest shipment of Suffolk horses that has ever left England for America, while on the same boat that my horses were on there were 67 head of Percherons and the biggest horse of the lot was not as heavy as my smallest Suffolk.

I went to England to buy a representative lot of Suffolks, but unfortunately money will not buy the best, but anyway I will deposit \$100 with the Southern Planter and Mr. Lewis to deposit a like amount that he has not a Percheron mare at this writing that can win over "Sudbourne Ruby" before any jury of judges that the Southern Planter will select. The horses to be judged as draft horses. I will also make the same wager in regard to yearling stallions. Now in Missouri they would say "put up or shut up" but I rather believe he will do neither.

Piedmont Farm, Marshall, Va.

F. W. OKIE.

THE MORGAN HORSE.

Editor Southern Planter:

Seeing the query advanced as to the wherefore of the absence of the Morgan type of horse during the last decade I take the liberty of offering some suggestions as to the cause of the elimination of the family, and its characteristics from latter-day horsemanship. In the first place, while your correspondent is correct in his summary of the qualities of the family (it can hardly aspire to the name of breed) attributing to them as he does docility, courage and durability, he overestimates their size when classing them as 1,000 to 1,300 pound horses.

The specimens I have known have all been small, light animals, such as we would expect to see produced from the founder of the race (who was about fourteen hands

and weighed in the neighborhood of \$50 pounds) when bred and grown on such a soil and under such conditions as prevailed in Northern New England during the years from 1793 to 1850. The pioneers in those days wanted a small compact horse of good bone and with the best of feet, one which was easy to keep and of a temperament suited to the cultivation of a light, stony soil, plentifully besprinkled with tree stumps, with action enough to get along through heavy snow an attribute that no low going or pacing horse possesses and these requirements the Morgan blood was admirably well qualified to supply. These horses were never great trotters and with the single exception of Sherman Morgan and his noted son Black Hawk, never have added anything of value to the present day harness race horse. They had however, a trappy, quick action which produced upon the driver the sensation of rapid locomotion and their courage at bottom was of the best.

Strange to say that although they were all bred under fairly identical conditions, and were inbred enough to thoroughly fix the type of the family, they almost always failed to perpetuate their good qualities when crossed with the larger and longer gaited animals, a peculiarity which was noticed with regret by the writers on this subject over half a century ago. Could intelligent effort have been brought to bear upon them as a whole by selecting the large animals for several generations the size would undoubtedly have been increased considerably without loss of the desirable attributes, but unfortunately these owners generally sought an increase of size by a cross to larger breeds, and when it is remembered that one cross reduced the Morgan blood to 50 per cent. and the second cross to 25 per cent., our wonder at the loss of the Morgan type ceases. Nor could these people be blamed for trying to increase the size and speed of their stock. The average Morgan was about 14 1-2 hands and well under 1,000 pounds in weight and in a contest with family horses at least one hand taller and 100 pounds heavier was inevitably sold for a lower figure than his competitor. The only alternative was to develop their speed and then the Messenger blood with its long powerful stride combined with increased size decided the contest of price against them. The movement inaugurated by the National government to rescue the type from rapidly approaching oblivion is commendable, but has, I fear, come too late. They have purchased some animals and some others have been given them, but an analysis of their pedigrees will show that they carry but little of the blood of their illustrious progenitor. In fact I think a tabulation will show that they carry as a rule more of the blood of Messenger than of Justin Morgan. It is always best to remember that although an animal may trace directly an unbroken line of descent from the foundation stock in the male line, that each male progenitor had a dam from which he inherits exactly half his blood and if two or more of these dams trace to some other horse there is at once a greater concentration of the blood of this horse than is found in the single line to the first mentioned animal. I dare say it might be possible even now in the remote mountainous districts to find Morgan's unknown to the stud book possessing the family characteristics in a good degree of uniformity, but always combined with the small size of their prototypes, but as I understand the Government officials in charge of the work are seeking

for more size and finish than would be expected from such a source, and are therefore inevitably forced to select the animals for breeders which carry blood far removed from the Morgan character. In fact they are seeking to reproduce the Ethan Allen or Daniel Lambert characteristics rather than those of Justin Morgan. This family has been called Morgans from the time when "the memory of man runneth not to the contrary" but a study of their pedigrees does not show much Morgan blood. Sherman Morgan, the link which unites them with the family was by Justin Morgan out of a Narragansett mare, presumably a pacer. Black Hawk, the son of Sherman Morgan, was out of a pacing mare presumably a Narragansett, as she was always known as the "Old Narragansett mare." Here we have 75 per cent. of pacing blood to 25 per cent. of Justin Morgan, and Ethan Allen, the horse in which the line reached its apogee was out of a "fast trotting mare" of unknown breeding. He carried so far as we know only one eighth of the blood of Justin Morgan, and his wonderful speed for his day and time, combined with his irreproachable good looks, fine coat and blood like quality, attributes which the other lines from Justin Morgan never possessed, would seem to make it a misnomer to call him a Morgan horse. Yet even though they as a class failed to equal their renowned kinsman, I have the kindest feeling for the race, one specimen of which will ever retain a loving place in my remembrance. She was a little bob-tailed black mare about 14 1-2 hands all bunched out with muscle until she would have been misshapen but for the thick layer of fat that reposed on her well sprung ribs, and over her powerful quarters. She could trot somewhere between 2:50 and 3 minutes I suppose, but the way she did it made you think you were riding in 2:20. Up and down hill, over stones, and gullies, the roughness of the road made no difference to her, she only asked that her round little feet should ring clear and true on a hard path to give you every pound she had. Many and many a night in the small hours as, wrapped in a fur coat which covered my first dress suit saturated with perspiration derived from dancing for five consecutive hours with those girls who still linger in my recollections, has she led the procession down those hard frozen Long Island roads, as with every foot fall like a pistol shot, and fire flying from shoes and tires, holding her own without check rein, breeching or boot, with horses that would have distanced her under any circumstances but those under which we contended. The frozen roads, the temperature near zero, the moonlight casting vague shadows across the track, it all made no difference to her indomitable little heart and nimble feet.

I have owned many larger and faster horses and some handsomer as well, but there I have exhausted my adjectives, for when you ask me to add better to the best I emphatically say no!

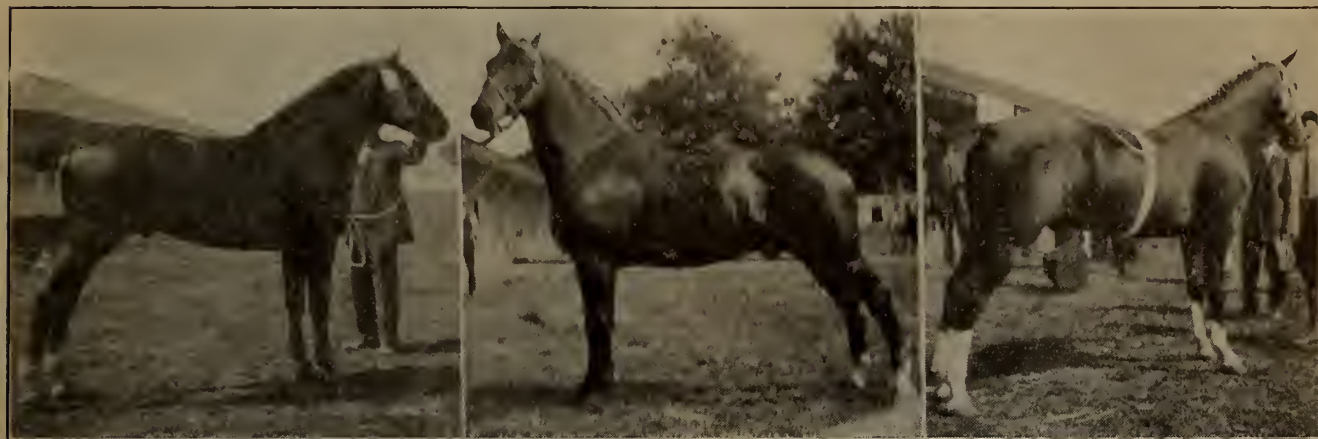
Mathews Co., Va.

PERCIVAL HICKS.

STATE DAIRYMEN'S ASSOCIATION.

The report of the annual session of the State Dairymen's Association held, in Leesburg, October 1st and 2d, was crowded out of this issue. It will appear next month including an excellent address by Dr. B. T. Woodward, of the Bureau of Animal Industry, on the subject of Bovine Tuberculosis.

Miscellaneous.



HACKNEY STALLION, PATRICK HENRY, A. POLLARD & SONS; HACKNEY STALLION, BAGTHORPE SULTAN, HON. HENRY FAIRFAX; GAITED SADDLE HORSE, PRINCE HIGHLAND, WISTAR ANDERSON.

THE VIRGINIA STATE FAIR.

Glorious weather! Magnificent show! Enormous crowds! Grand success! What more may be said to describe the Fourth Annual Exhibition of the Virginia State Fair Association?

Last year it was thought by many that for number and general excellence of exhibits the climax had been reached by the Fair Management. Those who entertained such ideas evidently "reckoned without their hosts," President Henry Fairfax and Manager Mark R. Lloyd. It astonishes the multitudes that these gentlemen should have gotten up such a splendid and complete exhibition. Everything conceivable for the education, amusement and protection of the visitors, from a wide range of excellent exhibits down to an emergency hospital on the grounds, was provided. Another thing, the show was entirely devoid of objectionable features usually found at such exhibitions.

The wonderful growth of the Fair since its organization four years ago has placed it in the front ranks of Agricultural exhibitions in the country, and easily leader of Eastern Fairs.

The wonderful impetus it has given the live stock industry of the State is being reflected not only on our farms, but in the show ring also. This is especially noticeable in the Swine Department. For instance, our

ern exhibitors. They have, however, hung on tenaciously and this year they got the lion's share of the purses with stock that it will be hard to defeat anywhere. But where are our Virginia draft stallions? Where are our splendid herds of Jerseys and Holsteins? Some few breeders were game enough to exhibit and they fared very well. But we want more of them and should have them. They should take a lesson from the Berkshire breeders.

The exhibit of George Souers & Sons, consisting of Percheron, Belgian and German coach horses, was another great attraction. His splendid four horse team of imported Percheron mares made a striking show.

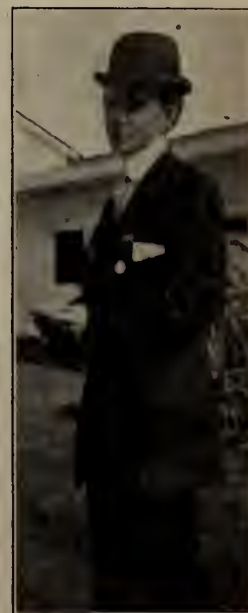
H. C. Groome has the distinction of showing the first Suffolk Punch at our Fairs and the stable boy was kept busy leading out "Sudborne Don" to the admiring throng.

"Bagthorpe Sultan," Champion Hackney stallion of England and America, and unquestionably the showiest horse in Virginia, evoked thunderous applause when on parade. President Fairfax, his owner, was complimented on this horse at every turn.

Space will not permit detailed comment on the numerous exhibits which they justly deserve. The Cattle, Swine, Sheep and Poultry Departments occupied every inch of space allotted to them notwithstanding the fact that great extensions had been made to these departments. The entries were more numerous than heretofore and the quality of the stock



PRESIDENT FAIRFAX.



MANAGER LLOYD.

Virginia Berkshire breeders came down here the first year or two and got badly beaten by Northern and West-

higher and the competition fierce in numerous cases. This was especially true of the Red Poll cattle. Probably no more beautiful or interesting sight of the kind was ever seen than when three entire herds numbering about one hundred animals were in the ring at one time.

We believe the largest crowd of the week witnessed the judging in this class, and many pronounced it the finest exhibit in the whole show. Dr. H. B. Arbuckle, himself a Red Poll breeder, placed the ribbons and declared the exhibit "simply great."

The "King Corn" exhibit (mentioned elsewhere) held the attention of thousands of farmers at all times and they seemed no less interested in the farm products display, which contained nearly everything grown on the farm. This Department showed an enormous increase over previous years.

The Draft Horse Department invariably catches the crowd. E. B. White's imported Percheron stallion, "Etudiant" Champion of France, and his aged mare, "Rosette," also Champion of France and undefeated in America, were greatly admired.

Following are the prize winners in all the stock classes. The poultry awards will be found in the advertising section:

HORSES AND MULES.

Percherons.—Stallion, four years old or over—First, Etudiant; second, Loiser, E. B. White, Leesburg. Stallion three years old and under four—First, Gracieux, George W. Souers & Son, Huntington, Ind.; second, Gerdie, George W. Souers & Son. Special prize offered by the Percheron Society of America—First, Gracieux, George W. Souers & Son. Stallion, two years old and under three—First, Hourvare; second, Harmon, George W. Souers & Son. Registry Special—First, Etudiant, E. B. White; second, Gracieux, George W. Souers & Son. Mares, four years old and over—First, Rosette, E. B. White; second, Theresa, George W. Souers & Son. Mares, two years old and under—First, Henrietta; second, Hardlesse, E. B. White. Mares, one year old and under two—Fauna, E. B. White; no competition.

Belgians.—Stallion, four years or over—Printode Roulier, George W. Souers & Son; no competition. Stallion, two years old and under three—Bayard de Burighes, George W. Souers & Son; no competition. Mares, two years old and under three—Kloostermeid, George W. Souers & Son; no competition. Mares, one year old and under two—Gayettedu, George W. Souers & Son; no competition.

Suffolk Punch.—Suffolk stallion, four years old and over—First, Sudbourne Don, H. C. Groome, Warrenton, Va.

Grades.—Mare, four years old and over—Nellie, Stephen Putney Shoe Co., Richmond; no competition. Mare, three years old or under—Ada, H. C. Beattie, Richmond; no competition. Gelding, three years old or over—Rob Roy, J. Thack Snyder, Scottsville; no competition.

Pure-Bred Team.—Pure-bred team, any breed or age, either sex, weight not less than 3,400 pounds—First Suzanne and Theresa; second, Biche and Mistomple, George W. Souers & Son.

Grade Team.—Grade team, any age, of either sex, weight not less than 3,400 pounds—Bob and Langhorne, Stephen Putney Shoe Co; no competition.

Thoroughbreds.—Stallion, four years old and over—First, Longlane, G. Percy Hawes; no competition. Stallion, three years old and under four—Heeltaps, B. R. Selden; no competition. Stallion, two years old and under



ILLUSTRATION: AT TOP, SUFFOLK PUNCH, SUDBOURNE DON, H. C. GROOME; SECOND, PERCHERON, ETUDIANT, E. B. WHITE; THIRD, BELGIAN, PRINTODE ROULIER, G. W. SOUERS & SONS; FOURTH, IMPORTED PERCHERON MARES, E. B. WHITE'S ROSETTE AT LEFT.

three—Dumbarton, H. C. Beattie, Richmond; no competition. Stallion, one year old and under two—First, Joe Mason, C. S. Luck, Ashland; second, Fondelahr, W. H. Parrish, Richmond. Mare, four years old and over—First, Glittering Glory, W. C. Parkinson, Taylorsville, Va.; second, Aileen Wilson, H. C. Beattie, Richmond. Mares, two years old and over—Brookline, J. T. Temple, Richmond; no competition. Mare, one year old and under two—Marie Peyton, W. H. Parrish, Richmond; no competition.

Standardbred.—Stallion, four years old and over—First, Berro, Acca Stock Farm; second, Bow Axworthy, Allendale Stock Farm, Fredericksburg, Va. Stallion, three years old and under four—First, Royal Seal, Allendale Farm, Fredericksburg, Va.; second, Dr. Opera, W. A. Veal, Shetland Stock Farm, Va. Stallion, two years old and under three—First, Genteel, Jr., J. Thack Snyder, Scottsville, Va.; second, Bondissi, D. A. Langhorne, Scottsville, Va. Stallion, one year old and under two—Clemmons, V. K. Gould, Boonesboro, Va.; no competition. Mare, four years old and over—First, Flora Allerton, D. A. Langhorne, Scottsville, Va.; second, Foxy Lambert, Charles T. Jones, Manchester, Va. Mare two years old and under three—Dorothy Warren, A. J. Warren, Richmond; no competition. Mare, one year old and under two—Caronia, Langhorne Putney, Richmond; no competition. Gold medal—Stallion, any age, Berro, Acca Stock Farm, Richmond. Gold medal—Mare, any age—Foxy Lambert, Charles T. Jones, Manchester, Va. Colts, fillies and geldings, under two years old—First, Dan Harris, G. H. Harris, Richmond; second, Biria, Mendes Brauer, Richmond. Colts, fillies and geldings, one year old and under two—First, Jerry Wilkes, Charles T. Jones, Manchester, Va.; second, Dorothy Longlane, L. G. Irvine, Richmond. Colts, fillies and geldings, under three—First, Chester, Dr. A. J. Hurt, Chester, Va.; second, Cherry Lane, Alvin Garthright, Richmond. Fillies and geldings, three years old and under—Dr. McDonough, P. J. McDonough, Richmond; no competition. Mares and geldings, four years old and over—First, Rob Roy, J. Thack Snyder, Scottsville, Va.; second, Daisy Mac, P. J. McDonough, Richmond.

Coachers.—French coach mare, four years old and over—Hilda, H. C. Beattie, Richmond; no competition. German coach, stallion, four years old and over—Falke, T. E. Roberts, Chase City; no competition. German coach, stallion, three years old and under four—Schloser, George W. Souers & Son, Huntington, Ind.; no competition. German coach, two years old and under three—Billy Parker, Clarence Walden, Manchester, Va.; no competition.

Hackneys.—English hackney stallion, four years old and over—Patrick Henry, A. Pollard & Sons, Richmond; no competition. English hackney, stallion, three years old and under four—Matchless Mate, Presque Isle Farm, Bermuda Hundred; no competition. English hackney, stallion, two years old and under three—First, Orangehad; second, Virginia Boy, E. B. White, Leesburg, Va. English hackney, stallion colt, under one year old—First, Crescent; second, Thistle, Presque Isle Farm, Bermuda Hundred. English hackney, mare, one year old and under two—Countess Dagmar, Presque Isle Farm, Bermuda Hundred; no competition. American Hackney Horse Society, special—First, E. B. White, Leesburg, Va.; second, A. Pollard & Sons, Richmond.

Harness Stallion.—Sweepstakes, best stallion, suitable for getting heavy harness or carriage horses, 15 hands two inches and over—First, Orangehad, E. B. White, Leesburg; second, George W. Souers & Son, Huntington, Ind.

Jacks and Jennets.—Jacks three years old and over—First, Emperor II., A. S. Harrison, Herndon; second, Dom Pedron, F. and P. A. Rose, Sabot. Jacks, under two years old—First, Emperor III., A. S. Harrison; no competition. Jennets, three years old—First, Miss Lyra; second, Miss Fairfax, A. S. Harrison, Herndon. Jennets, two years



ILLUSTRATION: AT TOP, RED POLL BULL, H. M. LUTTRELL; SECOND, SHORT HORN BULL, CARPENTER & ROSS; THIRD, HEREFORD BULL, LUCE & MOXLEY; FOURTH, RED POLL BULL, CURL'S NECK FARM.

old and under three—First, Miss Virginia, A. S. Harrison; second, M. J. McGannon, Richmond.

Mules.—Four years old and over—First, F. N. Standfield; second, H. F. McCleary, Richmond. Three years old and under four—First, Robert Hancock, Richmond; second, Smith Brothers, Richmond. Two years old and under—First, Sally, S. G. Cox, Old Church, Va.; second, Shamrock II., A. S. Harrison, Herndon. Under two years old—First, Topsy; second, Bell, A. S. Harrison, Herndon. Pair to wagon or truck—First, F. N. Standfield, Richmond; second, Robert Hancock, Richmond.

Ponies.—Stallion, three years or over—First, Steinvorod, Dr. N. P. Snead, Cartersville, Va.; second, Olof Ohn, C. H. Nolting, Trevilians, Va. Stallion, two years and under three—First, Dixie, C. H. Nolting, Trevilians, Va.; second, Mystery, Dr. N. P. Snead, Cartersville, Va. Stallion, one year and under two—First, Don Ontario, C. H. Nolting, Trevilians, Va.; second, Percy Allen, F. & P. A. Rose, Sabot, Va. Stallion colt, under one year—First, Pixy, H. C. Beattie, Richmond; second, Sport, C. H. Nolting, Trevilians, Va. Mare, three years old and over—First, Charmain, Dr. N. P. Snead, Cartersville, Va.; second, Midget, H. C. Beattie, Richmond. Mare, two years old and under three—First, Spirit; second, Susannie, Beattie & Nolting, Richmond. Mare, one year and under two—First, Mermaid, H. C. Beattie, Richmond; second, Princess Bonnie, Dr. N. P. Snead, Cartersville, Va. Mare colt, under one year—First, Evelyn, Dr. N. P. Snead, Cartersville, Va.; second, Rose-land, C. H. Nolting, Trevilians, Va. Mare, three years old and over—First, Liberty, J. P. McDonough, Richmond, Va.; no competition.

Gaited Saddle Horses.—Geldings, four years and over—First, Bob White, Forrest Rose, Sabot, Va.; second, Brandon, William Gwathmey, Beulahville, Va. Stallion, four years old or over—First, Maeh Wilkes, George W. Endicott, Jr., Gee, Va.; second, Nutwood, F. & P. A. Rose, Sabot, Va. Stallion, three years old and under four (no competition)—First, Prince Highland, Wistar Anderson, Columbia, Va. Mare, four years or over—First, Lady Watkins; second American Beauty, Forrest Rose, Sabot, Va. Champion stallion, mare or gelding—First, Bob White; second, American Beauty; Forest Rose, Sabot, Va. American Saddle Horse Ass'n Special (no competition)—Best stallion or mare—First, Prince Highland, Wistar Anderson, Columbia, Va.

CATTLE.

Shorthorn.—Bull, three years old and over—First, H. P. Hawkins, Stanford, Ky.; second, Carpenter & Ross, Mansfield, Ohio. Bull, two years old and under three—Elmendorf Farm, Lexington, Ky. Bull, senior yearling—First, Elmendorf Farm; second, H. P. Hawkins. Bull, junior yearling—First, Elmendorf Farm; second, Carpenter & Ross. Bull, senior calf—First, H. P. Hawkins; second and third, Elmendorf Farm; fourth, Carpenter & Ross. Bull—Junior calf—First, Carpenter & Ross; second, Elmendorf Farm; third, H. P. Hawkins. Cow three years old or over—First and fourth, Carpenter & Ross; second, Elmendorf Farm; third, H. P. Hawkins. Heifer, two years old and under three—First, Elmendorf Farm; second and fourth, Carpenter & Ross; third, H. P. Hawkins. Heifer, senior yearling—Elmendorf Farm; first and third; second and fourth, H. P. Hawkins. Heifer, junior yearling—First, Carpenter & Ross; second and third, Elmendorf Farm. Heifer, senior calf—First and second, Elmendorf Farm; third, H. P. Hawkins; fourth and fifth, Carpenter & Ross. Heifer, junior class—First and second, Elmendorf Farm; third and fourth, Carpenter & Ross. Aged herd—First, Elmendorf Farm; second, H. P. Hawkins; third, Carpenter & Ross. Young herd—First, Elmendorf Farm; second, Carpenter & Ross. Calf herd—First, Elmendorf Farm; second, Carpenter & Ross. Four animals, either sex, of one sire—First, Elmendorf Farm; second, Carpenter & Ross; third, H. P. Hawkins. Two animals, of either sex, produce of one cow—First, Elmendorf Farm; second, Carpenter & Ross. Senior champion bull, junior champion

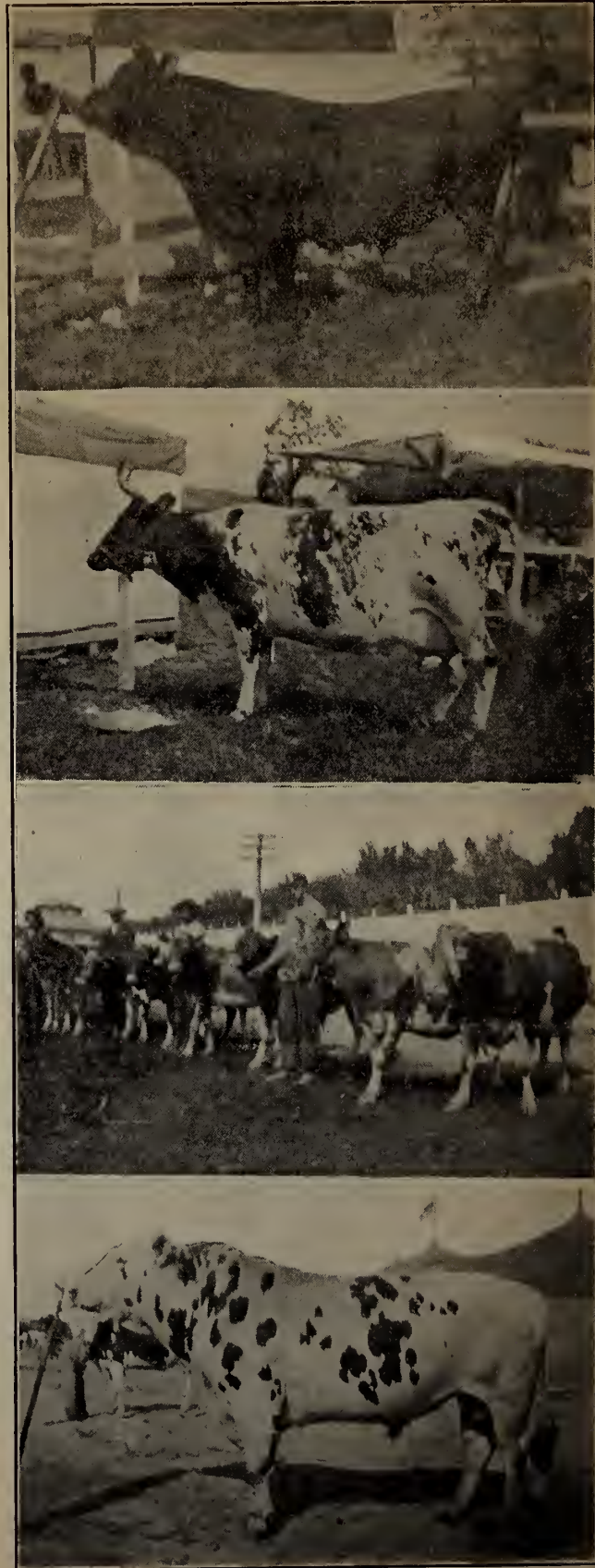


ILLUSTRATION: AT TOP, CHAMPION DAIRY BULL, ANY BREED, ANY AGE, JERSEY, ALLANDALE FARM; SECOND, CHAMPION DAIRY COW, ANY BREED, ANY AGE, AYRSHIRE, KENT BARNEY; THIRD, GUERNSEYS, W. D. PHELPS; FOURTH, HOLSTEIN BULL, H. A. ROBINSON & SONS.

bull both to Elmendorf Farm. Senior champion cow—First, Elmendorf Farm; second, ribbon reserved. Junior champion heifer—Grand champion bull—Grand champion female—First prize and reserved championship, Elmendorf Farm.

Virginia Beef Breeds.—Bull, three years old or over—Bull under one year—Heifer one year old and under two—Heifer under one year old—First, H. M. Luttrell, Delaplane, Va.

Herefords.—Bull, three years old and over—First, Luce & Moxley, Shelbyville, Ky.; second, G. W. Carroll & Sons, Syracuse, N. Y.

All prizes in classes 209, bull, one year old and under two; 210, bull, under one year; 211, cow, three years old and over; 212, heifer two years old and under three; 213, heifer, one year old and under two; 214, heifer, under one year; 215, exhibitor's herd; 216, breeders' young herd; 217, get of one sire; 218, produce of one cow, championships; 219, bull, any age; 220, cow or heifer, any age—Luce & Moxley, Shelbyville, Ky.

Aberdeen-Angus.—Bull, three years old and over—First, D. Bradfute & Son, Xenia, Ohio; second, F. & P. A. Rose, Sabot, Va.

All prizes in classes 222, bull, two years old and under three; 224, bull, under one year old; 225, cow, three years old and over; 226, heifer, two years old and under three; 227, heifer, one year old and under two; 228, heifer, under one year old; 229, exhibitor's herd; 230, breeder's young herd; 231, get of one sire; 232, produce of one cow; 233, bull, any age; 234, cow or heifer, any age—D. Bradfute & Son, Xenia, Ohio.

All prizes in classes 235, bull, three years old or over; 236, bull, two years old and under three; 238, bull, under one year old; 239, cow, three years old or over; 240, heifer, two years old and under three; 241, heifer one year old and under two; 242, heifer, under one year—James Blair, Hartstown, Pa.

Galloway.—All prizes in classes 243, bull, three years old and over; 245, bull one year old and under two; 246, bull, under one year old; 247, cow, three years old and over; 248, heifer, two years old and under three; 249, heifer, one year old and under two; 250, heifer, under one year old; 251, exhibitor's herd; 252, breeder's young herd; 253, get of one sire; 254, produce of one cow; 255, bull, any age; 256, cow or heifer, any age—James Frantz & Sons, Bluffton, Ohio.

Devons.—Bull, three years old and over—First, Wheeler Homestead. Bull two years old and under three—First, The Wheeler Homestead; second, H. B. Witter, Frederick, Md.

All prizes in classes 259, bull, one year old and under two; 260, bull, under one year old; 262, cow, three years old and over; 262, heifer, two years old and under three; 263, heifer, one year old and under two; 264, heifer, under one year old; 265, exhibitor's herd; 267, get of one sire; 268, produce of one cow; 270, cow or heifer, any age—The Wheeler Homestead, except second prize in the last three classes, which was won by H. B. Witter, Frederick, Md.

Red Polled.—Bull, three years old and over—First, H. M. Luttrell, Delaplane; second, Curl's Neck Farm, Cotman; third, George Ineichen, Geneva, Ind. Bull, two years old and under three—First, George Ineichen; second, H. M. Luttrell. Bull, senior calf—George Ineichen. Bull, junior calf—First and third, H. M. Luttrell; second, Curl's Neck Farm. Cow, three years old or over—First, H. M. Luttrell; second, Geo. Ineichen; third, Curl's Neck Farm. Heifer, two years old and under three—First, Geo Ineichen; second, H. M. Luttrell; third, Curl's Neck Farm. Heifer, senior yearling—First, H. M. Luttrell; second, Geo. Ineichen. Heifer, junior yearling—First, George Ineichen; second, Curl's Neck Farm; Heifer, senior calf—First, H. M. Luttrell; second, George Ineichen. Heifer, junior calf—First and third, H. M. Luttrell; second, George Ineichen. Exhibitor's herd—First, George Ineichen; second, H. M. Luttrell; third, Curl's Neck Farm. Breeder's young herd



ILLUSTRATION: AT TOP, POLAND-CHINA SOW, W. M. JONES; SECOND, YORKSHIRE SOW, WESTMORELAND DAVIS; THIRD, BERKSHIRE BOAR, W. R. FENSOM; FOURTH, BERKSHIRE BOAR, E. F. SOMMERS.

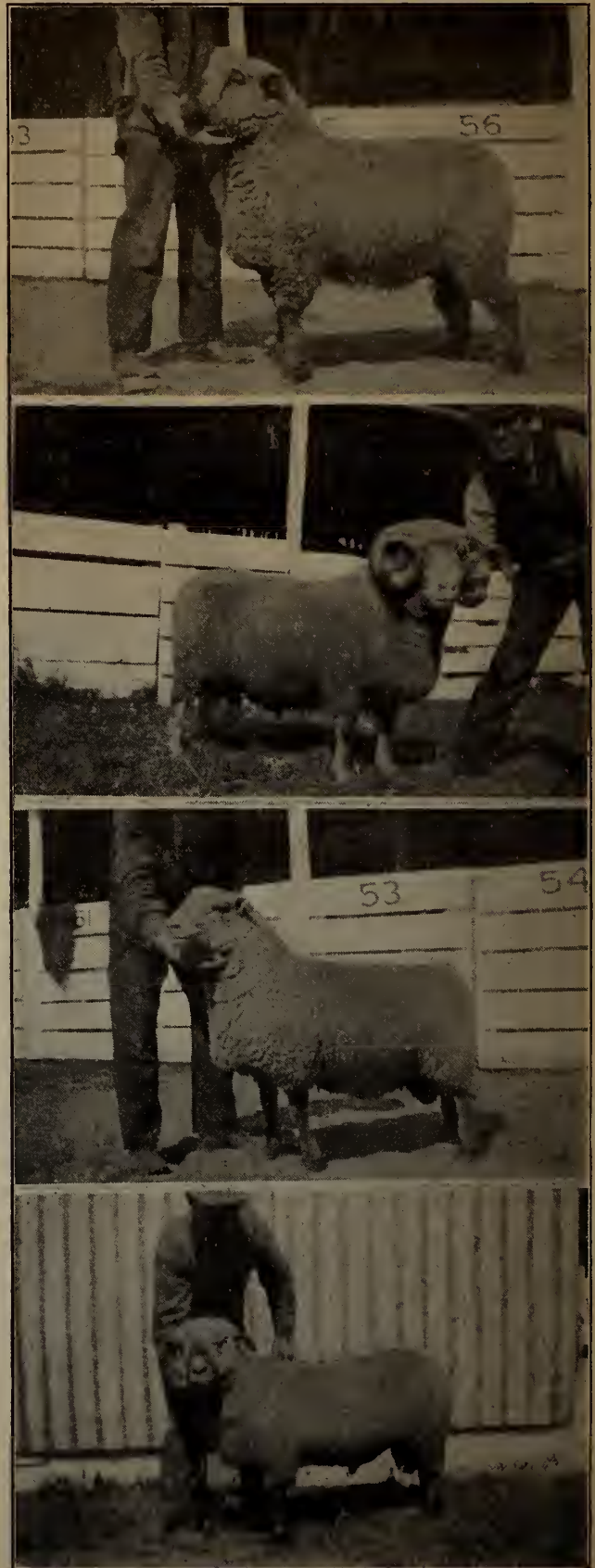
—First, George Ineichen; second, Curl's Neck Farm. Calf herd—First, H. M. Luttrell; second, George Ineichen; third, Curl's Neck Farm. Get of one sire—First, George Ineichen; second, H. M. Luttrell; third, Curl's Neck Farm. Produce of one cow—First and second, George Ineichen. Bull, any age—First, H. M. Luttrell. Cow, any age—First and reserve, George Ineichen. Cow, three years old and over, giving highest net amount of butter—First and reserve, George Ineichen.

Holstein-Friesian.—Bull, three years old and over—First, George M. Carpenter, Wilkesbarre, Pa.; second, H. A. Robinson & Sons, New York. Bull, two years old and under three—First, George M. Carpenter. Bull, one year old and under two—First, George M. Carpenter. Bull, under one year old—First, A. R. Scott, Richmond; second, H. A. Robinson & Son. Cow, three years old and over—First and second, Gerge M. Carpenter. Heifer, two years old and under three—First, A. R. Scott; second, H. A. Robinson & Sons. Heifer, one year old and under two—First, G. M. Carpenter; second, H. A. Robinson & Sons. Heifer, under one year old—First, H. A. Robinson & Sons; second, George M. Carpenter. Exhibitor's herd—First, George M. Carpenter; second, H. A. Robinson. Breeder's young herd—First, G. M. Carpenter; second, H. A. Robinson & Sons. Get of one sire—First and second, G. M. Carpenter. Produce of one cow, championship—First, G. M. Carpenter; second, H. A. Robinson & Sons. Bull, any age—First, G. M. Carpenter. Cow or heifer, any age—First, G. M. Carpenter.

Jersey.—Bull, three years old and over—First, Allendale Farm, Fredericksburg; second, Acca Stock Farm, Richmond. Bull, two years old and under three—First, Parker Brothers, Milford, New York; second, Allendale Farm. Bull, one year old and under two—First, H. L. McLallen, New York; second, Allendale Farm. Bull, under one year—First, Parker Brothers; second, H. B. Witter, Frederick, Md. Cow, three years old and over—First, Acca Stock Farm; second, H. L. McLallen. Heifer, two years old and under three—First, Parker Brothers; second, Acca Stock Farm. Heifer, one year old and under two—First, H. B. Witter; second, Parker Brothers. Heifer, under one year old—First, Parker Brothers; second, H. L. McLallen. Exhibitor's herd—First, Acca Stock Farm; second, Parker Brothers. Breeder's young herd—First, Parker Brothers; second, H. L. McLallen. Get of one sire—First, Parker Brothers; second, H. L. McLallen. Produce of one cow—First, Parker Brothers; second, H. L. McLallen. Championship bull, any age—First, Allendale Farm. Championship, cow, or heifer, any age—First, Acca Stock Farm.

Guernsey.—Bull, three years old and over—First, W. D. Phelps, Farmville; second, H. B. Witter, Frederick, Md. Bull, two years old and under three—First, H. B. Witter; second, W. D. Phelps. Bull one year old and under two—First, W. D. Phelps; second, H. B. Witter. Bull, under one year old—First, W. D. Phelps; second, Parker Brothers. Cow, three years old and over—First, H. B. Witter; second, W. D. Phelps. Heifer, two years old and under three—First, H. B. Witter; second, A. R. Scott, Richmond. Heifer, one year old and under two—First, Parker Brothers; second, H. B. Witter. Heifer, under one year old—First, Parker Brothers; second, H. B. Witter. Exhibitor's herd—First, H. B. Witter; second, Parker Brothers. Breeder's young herd—First, Parker Brothers; second, H. B. Witter. Get of one sire—First, Parker Brothers; second, H. B. Witter. Championship, produce of one cow—First, Parker Brothers; second, W. D. Phelps. Bull, any age—First and reserve, W. D. Phelps. Cow or heifer, any age—First and reserve, H. B. Witter.

Ayrshire.—All prizes in this section went to Kent Barney, of Milford, New York, with the exception of the first for heifers one year old and under two, and seconds for cow, three years old and over; heifer, two years old and under three; breeder's young herd, which went to H. B. Witter, Frederick, Md.



ILLUSTRATIONS: AT TOP, OXFORD RAM, J. C. DUNCAN; SECOND, DORSET RAM, FILLMORE FARM; THIRD, SOUTHDOWN RAM, J. C. DUNCAN; FOURTH, SHROPSHIRE RAM, C. F. CARTER.

French Canadian. Bull, three years old and over—First, H. B. Witter, Frederick, Md.; second, W. Fralich, New York. Bull, two years old and under three—First, W. Fralich; second, H. B. Witter. Bull, one year old and under two—First, H. B. Witter; second, W. Fralich. Bull, under one year old—First and second, H. B. Witter. Cow, three years old and over—First, W. Fralich; second, H. B. Witter. Heifer, two years old and under three—First, W. Fralich; second, H. B. Witter. Heifer, one year old and under two—First, H. B. Witter; second, W. Fralich. Heifer, under one year—First, W. Fralich; second, H. B. Witter. Exhibitor's herd—First, W. Fralich; second, H. B. Witter. Breeder's young herd—First, H. B. Witter; second, W. Fralich. Get of one sire—First, W. Fralich; second, H. B. Witter. Produce of one cow—First, W. Fralich; second, H. B. Witter. Championship bull, any age—First, H. B. Witter; Res. Rib., W. Fralich. Cow or heifer, any age—First, W. Fralich. Res. Rib., H. B. Witter.

Brown Swiss.—All prizes in this section were taken by Frank Freemyer, Middleborough, New York.

Dairy Test.—Cow, three years old, giving the highest net per cent. of total butter fat (Babcock test)—First & second, Acca Stock Farm; third, H. M. Luttrell, Delaplane. The cow, under three years old, giving the highest net total butter fat (Babcock test)—First, Acca Stock Farm; second, H. M. Luttrell. **Grand Sweepstakes**—Grand Champion beef bull, any age or breed—First, Elmendorf Farm, Lexington, Ky.; Res. Rib., Luce & Moxly. Grand champion beef cow, any age or breed—First, Elmendorf Farm, Lexington, Ky. Grand champion dairy bull, any age or breed—First, Allandale Farm, Fredericksburg; Res. Rib., Kent Barney. Grand champion dairy cow, any age or breed—First, Kent Barney, Milford, N. Y.; Res. Rib., G. M. Carpenter.

Berkshires. Boars, two years old or over—First, W. R. Fensom, Richmond; second, Otho B. Williams, Gaithersburg, Md.; third, W. A. Willeroy, Richmond. Boars, 18 months old, but under two years—First, W. R. Fensom; second, Moore's Brook Sanitarium, Charlottesville. Boar, one year old but under 18 months—First, E. F. Sommers, Somerset, Va.; second, Moore's Brook Sanitarium; third, O. B. Williams, Gaithersburg, Md. Boar six months old, but under one year—First, W. R. Fensom; second, O. B. Williams; third, Moore's Brook Sanitarium. Boar, under six months old—First, E. F. Sommers, second and third, Moore's Brook Sanitarium. Sow, two years old or over—First, O. B. Williams; second, W. R. Fensom; third, Moore's Brook Sanitarium. Sow eighteen months old, but under two years—First, O. B. Williams; second, W. R. Fensom; third, Moore's Brook Sanitarium. Sow, one year old but under eighteen months—First, O. B. Williams; second and third, Moore's Brook Sanitarium. Sow six months old but under one year—First and third, W. R. Fensom; second, O. B. Williams. Sow under six months—First and second, E. F. Sommers; third, Moore's Brook Sanitarium. Get of one boar—First, E. F. Sommers; second and third, Moore's Brook Sanitarium. Produce of one sow—First and second, Moore's Brook Sanitarium, third, W. R. Fensom. Exhibitor's herd—First, O. B. Williams, second, W. R. Fensom; third, Moore's Brook Sanitarium. Breeder's young herd—First, E. F. Sommers; second, Moore's Brook Sanitarium. Brood sow and six pigs—First & second Moore's Brook Sanitarium; third, W. A. Willeroy, Richmond. Champion boar, any age—First, E. F. Sommers; res. champion, W. R. Fensom. Champion sow—First, O. B. Williams; reserve champion, W. R. Fensom. American Berkshire Association special—Best boar and three sows under one year old, bred and owned by a Virginian—First, silver cup, value \$50, W. R. Fensom; second, \$10, E. F. Sommers; third \$5, Moore's Brook Sanitarium.

Poland China.—Bear, two years old or over—First, M. Yohn, Westminster, Md.; second, A. C. Grieve & Sons, Xenia, Ohio; third, H. Wiseley, Grover Hill, O. Boar, 18 months old but under two years—First, H. Wiseley, second, M. Yohn. Boar one year old but under 18 months—First, M. Yohn; second, H. Wiseley; third, A. C. Grieve & Sons. Boar six months old, but under one year—First, A. C. Grieve & Sons; second, H. Wiseley, third, M. Yohn. Boar under six months old—First and second, W. M.

Jones, Crofton, Va.; third, Grieve & Sons. Sow two years old and over—First, H. Wiseley; second, M. Yohn; third, A. C. Grieve & Sons. Sow eighteen months but under two years—First and third, H. Wiseley; second, M. Yohn. Sow one year old, but under eighteen months—First, A. C. Grieve & Sons; second, H. Wiseley; third, M. Yohn. Sow six months old but under one year—First, A. C. Grieve & Sons; second, W. M. Jones; third, M. Yohn. Sow under six months—First, W. M. Jones; second, M. Yohn; third, A. C. Grieve & Sons. Get of one boar—First, H. Wiseley; second, A. C. Grieve & Sons; third, W. M. Jones. Produce of one sow—First, A. C. Grieve & Sons; second, M. Yohn. Exhibitor's herd—First, H. Wiseley; second, A. C. Grieve & Sons; third, M. Yohn. Breeder's young herd—First, A. C. Grieve & Sons; second, H. Wiseley; third, M. Yohn. Brood sow and six pigs—First, A. C. Grieve & Sons. Championship boar—First, H. Wiseley; reserve champion, W. M. Jones. Champion sow—First, H. Wiseley; reserve champion, A. C. Grieve & Sons.



THE LORDLY SHORT HORNS ON PARADE—VIRGINIA STATE FAIR.

Chester Whites.—Boar two years old or over—First, T. W. and W. A. McCoy, Mercer, Pa.; second, W. T. Dever, Lucasville, Ohio; third, H. B. Witter, Frederick, Md.

All classes (same for all breeds) were won by W. T. Dever, except third brood sow and six pigs, which went to H. B. Witter.

Duroc-Jersey.—Boar, two years old or over—First, John Perry, Wilmington, O. Boar, 18 months but under two years—First, John Perry; second, W. A. Thigpen, Cone-toe, N. C. Boar, one year but under 18 months—First, W. A. Thigpen. Boar, six months but under one year—First, John Perry; second, W. A. Thigpen. Boar six months but under one year—First, John Perry; second, W. A. Thigpen. Boar under six months—First, John Perry; second, W. A. Thigpen. Sow, two years old or over—First, John Perry. Sow over eighteen months but under two years—First, John Perry; second, W. A. Thigpen. Sow, one year but under eighteen months—First, John Perry; second, W. A. Thigpen. Sow six months but under one year—First, John Perry; second, W. A. Thigpen. Sow under six months—First and second, John Perry; third, W. A. Thigpen. Get of one boar—First, John Perry; second, W. A. Thigpen. Produce of one sow—First, John Perry; second, W. A. Thigpen. Exhibition herd—First, John Perry; second, W. A. Thigpen. Breeders young herd—First, John Perry; second, W. A. Thigpen. Brood sow and six pigs—First, W. A. Thigpen. Championship boar—First and reserve, John Perry. Sow, any age—First and reserve, John Perry.

Large White Yorkshire.—Boar two years or over—First, Wheeler Homestead, Kanona, N. Y.; second, Shorb Bros., Utica Mills, Md.; third, Westmoreland Davis, Leesburg, Va. Boar, eighteen months but under two years—First, Wheeler Homestead. Boar, one year but under eighteen months—First, H. C. Beattie, Richmond, Va. Boar six mos. but under one year—First, W. Davis; second, H. C.

Beattie. Boar under six months—First and second, W. Davis; third, Wheeler Homestead. Sow two years old or over—First—Shorb Bros.; second, W. Davis; third, Wheeler Homestead. Sow eighteen months but under two years—First, Shorb Brothers; second and third, Wheeler Homestead. Sow one year but under eighteen months—First, W. Davis; second and third, Wheeler Homestead. Sow six months but under one year—First, W. Davis; second, Wheeler Homestead; third, H. C. Beattie. Sow under six months—First, W. Davis; second and third, Wheeler Homestead. Get of one boar—First, Shorb Brothers; second, W. Davis; third, Wheeler Homestead. Produce of one sow—First, W. Davis; second, Wheeler Homestead. Exhibitor's herd—First, Shorb Brothers; second, W. Davis; third, Wheeler Homestead. Breeders young herd—First, W. Davis, second, Wheeler Homestead. Brood sow and six pigs—First, W. Davis. Championship boar—First, Wheeler Homestead; reserve, W. Davis, Championship sow—First and reserve, Shorb Brothers.

Tamworth—All premiums and championships in this breed awarded to R. S. Hartley, of Youngsville, Pa.

Essex—Boar one year and under two—First, G. J. Campbell, Wellington, O.; second, Shorb Brothers. Boar six months and under one year First, Shorb Brothers. Boar under six months—First, G. J. Campbell; second, Shorb Brothers. Sow two years old or over—First, G. J. Campbell; second, Shorb Brothers. Sow one year but under two—First and second, Shorb Brothers. Sow six months but under one year—First, Shorb Brothers; second, G. J. Campbell. Sow under six months—First, G. J. Campbell; second, Shorb Brothers. Get of one boar—First, Shorb Brothers; second, G. J. Campbell. Produce of one sow—First, Shorb Brothers; second, G. J. Campbell. Exhibitor's herd—First, Shorb Brothers. Breeder's young herd—First, Shorb Brothers; second, G. J. Campbell. Championship boar—First G. J. Campbell; second, Shorb Brothers. Champion sow—First, Shorb Bros.; reserve, G. J. Campbell.

Victoria—All premiums and championships in this class awarded to G. J. Campbell, Wellington, O.

Other Distinct Breeds.—All awards and championships given to Shorb Brothers, Utica Mills, Md.

SHEEP.

Cotswold—Ram, two years old or over—First, Parker Brothers, Milford, N. Y. Ram one year old and under two, Parker Brothers. Ram under one year, J. H. Hall, Port Arthur, Mich.; second, Parker Brothers. Ewe two years or over—First, Parker Brothers. Ewe one year and under two—First, Parker Brothers. Ewe under one year—Parker Brothers. Exhibition flock—First, Parker Brothers. Breeder's young flock—First, Parker Brothers. Ram, any age, championship—First, J. H. Hall.

Southdown—Ram, two years or over—First, J. C. Duncan, Lewiston, N. Y.; second, T. W. and W. A. McCoy, Mercer, Pa. Ram one year and under two—First, J. C. Duncan; second, T. W. and W. A. McCoy. Ram under one year—First and second, J. C. Duncan. Ewe two years or over—First, J. C. Duncan; second, T. W. and W. A. McCoy. Ewe one year and under two—First, J. C. Duncan; second, T. W. and W. A. McCoy. Ewe under one year—First, J. C. Duncan; second, T. W. and W. A. McCoy. Exhibitor's flock—First, J. C. Duncan; second, T. W. and W. A. McCoy. Breeder's young flock—First, T. W. and W. A. McCoy. Get of one sire—First, J. C. Duncan. Championship—First, J. C. Duncan. Ewe, any age, championship—First, J. C. Duncan.

Shropshire—Ram two years or over—First, J. C. Duncan; second, C. F. Carter, Seven Mile Ford, Va. Ram, one year and under two—First, C. F. Carter; second, Lovett & Taylor, Sidney, O. Ram under one year—First, C. F. Carter; second, J. C. Duncan. Ewe two years or over—First, C. F. Carter; second, J. C. Duncan. Ewe one year and under two—First, C. F. Carter; second, J. C. Duncan. Ewe under one year—First, C. F. Carter; second, J. C. Duncan. Exhibitor's flock—First, C. F. Carter; second, J. C. Duncan. Breeder's young flock—First, Lovett & Taylor; second, J. C. Duncan. Get of one sire—First, J. C. Duncan; second, Lovett & Taylor. Ram, any age, championship—First and second, C. F. Carter. Ewe any age, championship—First, C. F. Carter; second, J. C. Duncan.

Hampshires—Ram, two years or over—First, J. H. Hall; second, Lovett & Taylor. Ram one year and under two—First, Lovett & Taylor. Ewe two years or over—First, Lovett & Taylor; second, Lovett & Taylor. Ewe one year and under two—First, Lovett & Taylor. Ewe, under one year—First and second, Lovett & Taylor. Exhibitor's flock—First, Lovett & Taylor. Breeder's young flock—First, Lovett & Taylor. Ram, any age, championship—First, J. H. Hall; second, Lovett & Taylor. Ewe any age, championship—First, Lovett & Taylor.

Oxford Down—Ram two years or over—First, J. C. Williamson, Xenia, O.; second, J. C. Duncan. Ram one year and under two—First, J. C. Duncan; second, J. C. Williamson & Son. Ram under one year—First, J. C. Duncan; second, J. C. Williamson & Son. Ewe two years or over—First, J. C. Williamson & Son; second, J. C. Duncan. Ewe one year and under two—First, J. C. Duncan; second, J. C. Williamson & Son. Ewe under one year—First and second, J. C. Duncan. Exhibitor's flock—First, J. C. Williamson & Son; second, J. C. Duncan. Breeder's young flock—First, J. C. Williamson; second J. C. Duncan. Get of one sire—First and second, J. C. Duncan. Ram, any age, championship—First, J. C. Williamson & Son. Ewe, any age, championship—First, J. C. Williamson & Son.

Dorset Horn—Ram two years and over—First and second, Fillmore Farm, Bennington, Vt. Ram one year and under two—First and second, Fillmore Farm. Ram under one year—First and second, Fillmore Farm. Ewe two years or over—First and second, Fillmore Farm. Ewe one year and under two—First, Fillmore Farm; second, Westmoreland Davis. Ewe under one year—First and second, Fillmore Farm. Exhibitor's flock—First, Fillmore Farm; second, Westmoreland Davis. Breeder's young flock—First, Fillmore Farm; second, Westmoreland Davis. Get of one sire—First, Fillmore Farm; second, Westmoreland Davis. Ram, any age, championship—First, Fillmore Farm. Ewe, any age, championship—First, Fillmore Farm.

Cheviot.—All awards and championships went to Kent Barney, Milford, N. Y.

Lincoln.—All awards and championships went to A. C. Fielder, De Graff, Ohio.

Leicester.—All awards and champions given to F. W. and W. A. McCoy.

Merino, American or Spanish—Ram two years or over—First, Lovett & Taylor; second, H. Homer Jobe, Xenia, O. Ram, one year and under two—First, H. Homer Jobe, second, Lovett & Taylor. Ram under one year—First, H. Homer Jobe, second, Lovett & Taylor. Ewe two years and over—First, Lovett & Taylor; second, H. Homer Jobe. Ewe one year and under two—First, Lovett & Taylor; second, H. Homer Jobe. Ewe under one year—First, Lovett & Taylor; second, H. Homer Jobe. Exhibitor's flock—First, Lovett & Taylor; second, H. Homer Jobe. Breeders young flock—First, H. Homer Jobe; second, Lovett & Taylor. Get of one sire—First, H. Homer Jobe; second, Lovett & Taylor. Ram, any age, championship—First, Lovett & Taylor. Ewe, any age, championship—First, Lovett & Taylor.

Delaine, Dickinson or Black Top Merino—Ram two years or over—First and second, H. Homer Jobe. Ram, one year and under two—First and second, H. Homer Jobe. Ram, under one year—First, Lovett & Taylor; second, H. Homer Jobe. Ewe two year or over—First and second, H. Homer Jobe. Ewe one year and under two—First, H. Homer Jobe; second, Lovett & Taylor. Ewe under one year—First, H. Homer Jobe; second, Lovett & Taylor. Exhibitor's flock—First, H. Homer Jobe; second, Lovett & Taylor. Breeders young flock—First, H. Homer Jobe, second, Lovett & Taylor. Get of one sire—First, H. Homer Jobe; second, Lovett & Taylor. Ram, any age, championship—First, H. Homer Jobe. Ewe, any age, championship—First, H. Homer Jobe.

Rambouillet.—All awards and championships given to Lovett & Taylor.

Angora Goats—Ram two years old or over—First, Mann S. Valentine, Stokes, Va.; second, Va. Angora Goat Co. Ram one year and under two—First, Mann S. Valentine, second, Va. Angora Goat Co. Ram under one year—First, H. B. Witter, Frederick, Md.; second, Va. Angora Goat Co. Ewe two years or over—First, Va. Angora Goat Co.;

second, Mann S. Valentine. Ewe one year and under two—First, Mann S. Valentine; second, H. G. Hunter, Doswell, Va. Ewe under one year—First, Mann S. Valentine; second, H. B. Witter. Exhibitor's flock—First, Mann S. Valentine; second Va. Angora Goat Co. Breeders young flock—First, H. G. Hunter; second, H. B. Witter. Ram, any age, championship—First, Va. Angora Goat Co. Ewe any age, championship—First, Mann S. Valentine.

DOGS.

Pointers—Male—First, H. M. Wilkerson; second, E. F. Woodall; third, Andrew J. Warren. Female—First, John W. Brauer, Jr.; second, Dean Garthright; third, Dean Garthright. Puppies—First, Le Roy E. Brown.

Beagles—Male—First, Beattie & Walton. Female—First, and second, Beattie & Walton. Championship—Beattie & Walton.

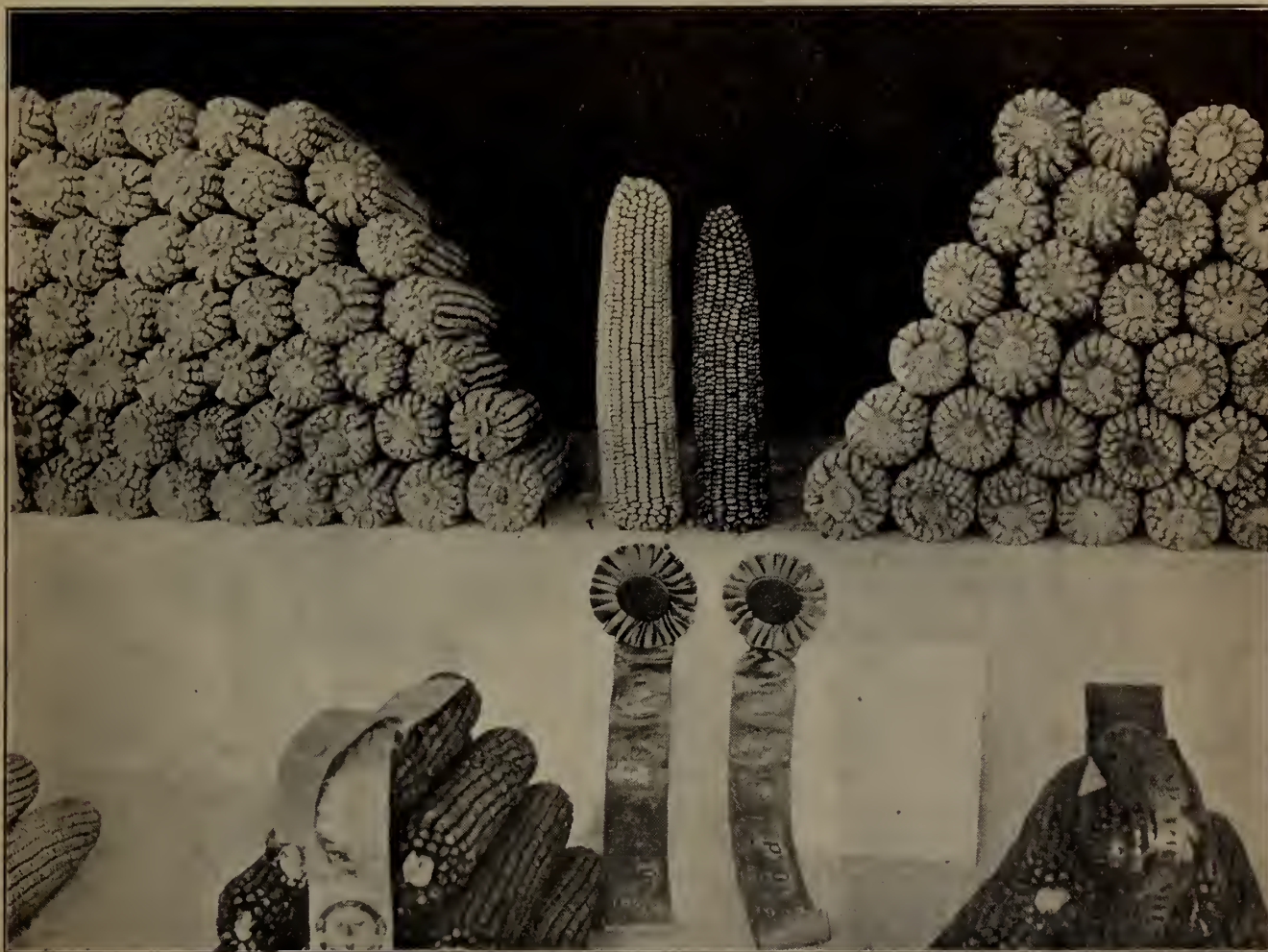
Collies—Male—First, Dr. C. Howard Lewis; second, A. Pollard & Son; third, Mrs. Howard LeRoy Kerr. Female—First, Anton H. Thierman; second, J. Harrison Tabb; third, H. M. McMannaway. Puppies—First, M. Hicks; second, W. Gay Smith; third, Mrs. Elmo S. Redwood. Championship—A. Pollard & Sons.

Dachshunds—Male—First and championship, Dr. Chas. H. Epps.

Setters—Male—First, Arthur O. Johnson; second, Perry Brothers; third, M. H. Omohundro. Female—First, A. L. Blair; second, A. L. Blair; third, M. H. Omohundro. Puppies—First and second, P. J. Archer. Championship—Arthur O. Johnson.

Foxhounds—Male—First and second, W. A. Davis. Puppies—First and second, Roy S. Robins.

Grand Championship—Arthur O. Johnson. Tomahawk English Setter.



"KING CORN"—SWEEPSTAKES SINGLE, TEN AND TWENTY EARS, WHITE AND YELLOW.

"KING CORN" AT THE FAIR.

If there was any single exhibit at the recent State Fair which attracted most attention it must have been the corn. Under stimulus of an additional \$1,200 in special purses contributed by public spirited newspapers, corporations and individuals, some 500 farmers entered about 12,000 ears of corn.

Professor B. W. Crosley of the Iowa Experiment Station, Ames, Ia., was judge and the selection was a most happy one. He went at his task like a veteran and much to the edification of the onlookers, explained not only

the good and bad points of each ear of corn but gave many valuable hints on the art of corn breeding.

He expressed great surprise at the quality and extent of the exhibit and at the interest manifested in corn growing in Virginia.

We are all hoping to have a much better and larger exhibit next year with purses to correspond and take pleasure in offering our services and our share of the purses to accomplish this end. There is no doubt whatever of the enormous and lasting good which has been accomplished by this maiden effort to increase the quality and yield of the corn crop in the State.

The winners, and indeed all the exhibitors, deserve congratulations and we heartily extend ours. Below are the awards:

Best Single Ear White Corn—"King Corn" prize, J. L. Scott, Vinita, Va.; first premium, J. T. Thornton, Port Royal, Va.; second C. U. Gravatt, Port Royal, Va.; third, Berkley D. Adams, Charlotte County; fourth, C. U. Gravatt, Port Royal, Va. fifth, W. C. Cussins, Nathalie, Va.; sixth, G. Y. Hundley, Scottsburg, Va.; seventh, J. S. Woodyard, Chase City.

Best Ten Ears White Corn—"King Corn" prize, Berkley D. Adams, Charlotte county; first, C. U. Gravatt, Port Royal, Va. third, H. M. Luttrell, Delaplane; fourth, William L. Wood, Ashland; fifth, S. R. Wingo; sixth, A. F. Turner, Port Royal; seventh, W. P. Smith & Son, Nutbush.

Best Twenty Ears White Corn—"King Corn" prize, J. E. Conner, Mt. Laurel, Va.; first, A. F. Turner, Port Royal, Va.; second, C. U. Gravatt, Port Royal; third, T. T. Taylor, Broadford, Va.; fourth, J. H. C. Beverly, Chance, Va.; fifth, Albert Herzig, Meherrin, Va.; sixth, H. M. Luttrell, Delaplane, Va.; seventh, Presque Isle Farm, Bermuda Hundred, Va.

Best Single Ear Yellow Corn—"King Corn" prize, Joe Parkinson, Taylorsville, Va.; first, A. G. Morton, R. F. D. 5, Richmond, Va.; second, W. H. Dorin, Mt. Laurel, Va.; third, C. W. Tompkins & Son; fourth, W. C. Parkinson, Taylorsville, Va.; fifth, J. E. Wheelwright, Buckhead, Va.; sixth, J. E. Conner, Mt. Laurel, Va.; seventh, W. H. Dorin, Mt. Laurel, Va.

Best Ten Ears Yellow Corn—"King Corn" prize, W. C. Parkinson, Taylorville, Va.; first, J. E. Connor, Mt. Laurel, Va.; second, A. G. Morton, R. F. D. 5, Richmond; third, W. H. Dorin, Mt. Laurel, Va.; fourth, J. B. Clayton; fifth, C. W. Thompson & Son; sixth, Catocin Farmers Club, Waterford, Va.

Best Twenty Ears Yellow Corn—"King Corn" prize, W. W. Route, Roanoke, Va.; (sweepstakes).

Best Collection single, ten and twenty Ears, White or Yellow—W. H. Dorin, Mt. Laurel, Halifax county.

Best Ten Ears, Any Variety—First, W. S. Morton, Charlotte Courthouse, Va.; second, August Manicke, News Ferry, Halifax county, Va.

Best Single Ear, Any Variety—W. H. Dorin, Mt. Laurel, Va.

Largest Yield Per Acre—Not less than one and one-half bushels per acre shucked corn and twelve stalks to be shown, divided in two parts, highland and lowland. Highland—First, C. U. Gravatt, Port Royal, Va.; second, W. C. Parkinson, Taylorsville, Va. Lowland—First, Mrs. A. C. Bransford, Shirley, Va.; second, John A. Archer, Richmond, R. F. D. No. 5.

Ten Ears Pop Corn—First, W. S. Morton, Charlotte C. H., Va.; second, W. C. Parkinson, Taylorsville, Va.; third, W. S. Morton.

Ten Ears Sweet Corn—First, James Bellwood, Manchester, Va.

Display of Varieties of Corn on Stalk—First, James Bellwood.

Largest Total Yield of Corn from Ten Stalks to be Shown on Stalk—First, James Bellwood.

FARM PRODUCTS.

Quarter bushel Longberry wheat—First, W. T. Coyner, Jr., Waynesboro, Va.; second, James Bellwood. **Quarter bushel Fultz wheat**—First, Robert Moss, Burkes Garden, Va.; second, Paul Sedivy, Church Road, Va. **Display of wheat in sheaf**—First, W. C. Parkinson. **Quarter bushel white oats**—First, C. R. Darracott, Brandon, Va. **Display of oats in sheaf**—First, Paul Sedivy. **Display of Alfalfa hay, bale or bundle to weigh at least 20 pounds**—First, W. C. Parkinson; second, James Bellwood. **Display of red clover, bale or bundle**—First, James Bellwood. **Display of Crimson clover**—First, James Bellwood. **Display of Alsike clover**—First, James Bellwood. **Display of varieties of Clover**—First, James Bellwood; second, C. E. Meinhard, Lunsford, Va. **Display of collection of alfalfa plants**—First, James Bellwood; second, W. C. Parkinson. **Display of soy beans**—First, James Bellwood. **Display of cow peas**—First, W. S. Morton. **Display of varieties of sorghum on stalk**—First, James Bellwood; second, W. C. Parkinson. **Display of German Millet**—First, James Bellwood. **Larg-**

est and finest sunflower—First, A. L. Brady, Edlow, Va.; second, W. C. Parkinson. **Most complete display of varieties of whole plants, including wheat, corn, clover and grasses**—First, James Bellwood; second, C. E. Meinhard. **Sweepstakes, Best quarter bushel wheat, any variety**—First, Wm. T. Coyner, Jr. **Sweepstake, best ten ears corn, any variety**—First, W. S. Morton; second, Aug. Manicke, News Ferry, Va. **Sweepstake, best ear corn, any variety**—W. H. Dorin, Mt. Laurel, Va. **Sweepstake, Display of grain, grasses and forage crops in grain and stalk; 25 samples must be shown**—First, Mrs. A. J. Smith, Hickory Hill, Va.; second, Paul Sedivy. **Largest yield per acre, not less than one and one-half bushels shucked corn and 12 stalks to be shown**—First, highland, Mrs. A. C. Bransford, Shirley, Va., 147 bushels; second, highland, C. U. Gravatt, Port Royal, Va. 128 bu.; First, lowgrounds, Jno. A. Archer, Richmond, Va. 144 bu.; second, C. R. Kennon, Boscobel, Va., 112 bu. **Largest yield per acre, grasses, alfalfa**—First, W. C. Parkinson. **Wax beans**—First, L. E. Kemmerer, Richmond, Va. **Stringless beans**—First, Elmer F. Affeldt, Brook Hill, Va.; second, Garland Hanes, Barton Heights, Va. **Pole Lima beans**—First, Elmer F. Affeldt; second, Garland Hanes. **Flat head cabbage**—First, Garland Hanes; second, Chas. Smith, Sr., Dumbarton, Va. **Heaviest head cabbage**—First, Garland Hanes. **Egg plants**—First, Chas. I. Smith, Jr.; second, Chas. I. Smith, Sr. **Okra**—First, Chas. I. Smith, Jr.; second, Chas. I. Smith, Sr. **Lettuce**—First, A. P. Zeller, R. F. D. 5, Richmond, Va.; second, Chas. I. Smith, Jr. **Parsley**—First, Chas. I. Smith, Jr.; second, Elmer F. Affeldt. **Peas in pod**—First, W. H. Sanders, Dumbarton, Va. **Bull-nosed peppers**—Chas. I. Smith, Sr.; second, Chas. I. Smith, Jr. **Peppers, any other variety**—First, W. S. Morton, second, Garland Hanes. **Peppers, best six plants, shown in pods**—First Elmer F. Affeldt **Spinach**—First, A. P. Zeller; second, Garland Hanes. **Tomatoes, red**—First, J. S. Dowdy, Belona, Va.; second, W. H. Sanders. **Tomatoes, purple**—First, W. H. Sanders; second, H. R. Sanders, Dumbarton, Va. **Celery, white**—First, Elmer F. Affeldt; second, Chas. I. Smith, Jr. **Crook neck squash**—First, A. P. Zeller. **White bush squash**—First, J. S. Dowdy **Cashaw squash**—First, Otho M. Cokes, Elberon, Va. **Any other variety squash**—First, Elmer F. Affeldt. **Heaviest squash**—Garland Hanes. **Watermelons**—First, W. S. Morton; second, W. S. Morton. **Sweet pumpkins**—First, Chas. I. Smith, Sr. **Field pumpkins**—First, Joseph Guza, Mattoax, Va.; second, James Bellwood. **Largest pumpkin**—First, James Bellwood; second, Chas. I. Smith, Jr. **Potatoes, collection of ten varieties**—First, W. H. Sanders. **Peck early Irish potatoes**—First, J. A. Bumgardner, Staunton, Va.; second, W. W. Sproul, Middlebrook, Va. **Late Irish potatoes**—First and second, W. W. Sproul. **White sweet potatoes**—First, W. S. Morton; second, Elmer F. Affeldt. **Jersey yellow sweet potatoes**—First, Chas. I. Smith, Sr.; second, W. H. Sanders. **White Yams**—First, W. H. Sanders; second, H. R. Sanders. **Beets, for table use**—First, Chas. I. Smith, Jr.; second, Chas. I. Smith, Sr. **Beets, for stock use**—First, W. C. Parkinson; second, W. P. Smith & Son, Nutbush, Va. **Purple Top turnips**—First, Garland Hanes; second, Chas. I. Smith, Jr. **White Top turnips**—First, W. P. Smith & Son. **Rutabaga turnips**—First, W. P. Smith & Son; second, Garland Hanes. **Carrots**—First, A. P. Zeller; second, Garland Hanes. **Parsnips**—First, W. C. Parkinson; second, Garland Hanes. **Red or yellow dry onions**—First, R. R. Campbell, Ashland, Va.; second, Misses Crenshaw, Orange, Va. **Yellow Danvers Onion Sets**—First Elmer F. Affeldt. **White onion sets**—First, H. M. Luttrell; second, Misses Crenshaw. **Radishes**—First, Garland Hanes; second, Chas. I. Smith, Jr. **Salsify**—First, A. P. Zeller; second, Garland Hanes. **County Exhibit, collection of farm products**—First, Chas. Koepfen, Spotsylvania county, Fredericksburg; second, E. A. Watson, Bath county, Millboro, Va. **Spanish peanuts**—First, H. E. Smith, Drewry's Bluff, Va.; second, R. P. Ross, Edgerton, Va. **Virginia running peanuts**—First, Paul Sedivy. **Picked Virginia bunch nuts**—First, Dr. F. H. Brauer.

TOBACCO.

Virginia Burley—J. P. Taylor, Orange, first prize, \$30 for the best sample of Burley tobacco exhibited and \$75 (sweepstakes) offered by the R. A. Patterson Tobacco

Company for the best Burley crop. Exhibited through W. D. Butler & Company.

The second prize for Burley, \$15, was awarded to D. W. Hancock of Buckingham county, through Fraser & Tompkins, and the third, \$5, to J. W. M. Morgan, of Riverton, through the Fair Association.

Sun-cured—W. P. Cooke, Locust Creek, Louisa county, first prize, \$30 and sweepstakes for the best crop of its kind shown, \$50, offered by the Richmond Tobacco Exchange. Exhibited through the Shelbourne Warehouse.

L. T. Cocke, Locust Creek, Louisa county, second prize, \$15. Exhibited through the Shelbourne Warehouse.

W. W. Broaddus, Jr., Caroline county, third prize, \$5. Exhibited through W. D. Butler & Co.

Bright Fillers—W. T. Barnes, Blackstone, first prize, \$50. Exhibited through the Crenshaw Warehouse.

Bright Wrappers—B. B. Smith, La Crosse, first prize, \$30. Exhibited through the Fair Association. W. T. Barnes, Blackstone, second prize, \$15. Exhibited through Crenshaw Warehouse.

Bright Cutters—R. A. Edmondson, Houston, first prize \$30. Exhibited through the Fair Association. W. T. Barnes, Blackstone, second prize, \$15. Exhibited through the Crenshaw Warehouse.

Bright smokers—R. A. Edmondson, Houston, first prize, \$30. Exhibited through the Fair Association. W. T. Barnes, Blackstone, second prize, \$15. Exhibited through the Crenshaw Warehouse.

Olive stemming—J. W. Knabe, Powhatan, first prize, \$30. Exhibited through John F. Jacob & Company. A. W. Porter, second prize, \$15. Exhibited through John F. Jacob & Company. J. S. Dowdy, Belona, thir prize, \$5. Exhibited through Fraser & Tompkins.

Brown stemming—Wistar Anderson, Columbia, first prize, \$30. Exhibited through Fraser & Tompkins. B. S. Boatwright, Gilliamsville, second prize, \$15. Exhibited through Fraser & Tompkins. W. L. Boatwright, New Canton, third prize, \$5. Exhibited through Fraser & Tompkins.

Brown shipping—A. S. Thomas, Falkland, first prize, \$30, and second sweepstakes, \$25. Exhibited through the Crenshaw Warehouse. Crenshaw Warehouse, second prize \$15. J. D. Motley, Amelia county, third prize, \$5. Exhibited through the Crenshaw Warehouse.

APIARY SUPPLIES AND PRODUCTS.

Exhibit of common, Italian, or other race of bees—First, W. E. Tribbett, Staunton, Va.; second, Chas. Koeppen, Fredericksburg, Va. Best and largest display of section comb honey—First, Chas. Koeppen; second, W. E. Tribbett. Best display of special designs of comb honey—First, W. E. Tribbett. Best dozen jars white extracted honey—First, Chas. Koeppen; second, W. E. Tribbett. Best dozen jars light amber extracted honey—First, Chas. Koeppen; second, W. E. Tribbett. Best and largest display of beeswax—First, Chas. Koeppen; second, W. E. Tribbett. Best display of special designs in beeswax—First, W. E. Tribbett; second, Chas. Koeppen. Best display of fruit preserved in honey—First, W. E. Tribbett. Best display of honey vinegar—First, W. E. Tribbett; second, Mrs. A. M. Snellings, Manchester, Va. R. F. D. 1. Best collection of Virginia honey yielding plants pressed and mounted—First, W. E. Tribbett. Best and largest display of bee-keepers' supplies—First, W. E. Tribbett, Staunton, Va.

FRUIT.

Barrel Newtown (Albemarle) Pippin—First, Geo. E. Murrell, Fontella, Va. Barrel York Imperial—First, Geo. E. Murrell. Barrel Winesap—First, Geo. E. Murrell; second, Alfred Crouse, Ridge Church, Va. Barrel Ben Davis—First, Geo. E. Murrell. Barrel Arkansaw (Black Twig)—First, Geo. E. Murrell. Box Newtown (Albemarle) Pippin—First, Geo. E. Murrell. Box York Imperial—First, Geo. E. Murrell. Box Winesap—First, Geo. E. Murrell; second, R. A. Lapsley, Ashland, Va.; third, Alfred Crouse. Box Ben Davis—Second, Geo. E. Murrell; third, Alfred Crouse. Box Arkansaw (Black Twig)—First, Geo. E. Murrell. Basket Newtown (Albemarle) Pippin—First, Hood & Williams. Greenwood, Va.; second, Geo. E. Murrell. Basket York Imperial—First, Geo. E. Murrell. Basket Winesap—First, Geo. E. Murrell; second, Hood & Williams; third, Alfred

Crouse. Basket Arkansaw (Black Twig)—Geo. E. Murrell.

Box Winesap—Second, J. H. Jones, Cartersville, Va. Box Newton (Albemarle) Pippin—First, George E. Murrell. Box York Imperial—First, George E. Murrell; second, R. A. Lapsley. Box Winesap—First, R. A. Lapsley; second, Geo. E. Murrell. Box Ben Davis—First, Geo. E. Murrell. Box Arkansaw (Black Twig)—Second, Geo. E. Murrell. Box Grimes Golden—First, R. A. Lapsley. Best display of ten of the following varieties of apples, one plate each—Newtown (Albemarle) Pippin, Ben Davis, Winesap, Jonathan, Mammoth Black Twig, York Imperial, Grimes' Golden, Smith Cider, Virginia Beauty, Bonum, Fall Cheese.—First, Geo. E. Murrell. Plate of Newtown (Albemarle) Pippin—First, W. G. Moran, Miller School, Va.; second, Geo. E. Murrell; third, Hood & Williams. Plate of Ben Davis—First, Alfred Crouse; second, Geo. E. Murrell. Plate of Virginia Beauty—First, Alfred Crouse. Plate of Fall Cheese—First, R. A. Lapsley. second, W. S. Morton, Charlotte C. H., Va.; third, Geo. E. Murrell. Plate of York Imperial—First, Geo. E. Murrell; second, Sydnor, city; third, Alfred Crouse. Plate Winesap—First, R. A. Lapsley; second, Geo. E. Murrell; third, Hood & Williams. Plate Grimes Golden.—First, R. A. Lapsley; second, Geo. E. Murrell. Plate Bonum—First, Sydnor; second, Geo. E. Murrell; third, Alfred Crouse. Plate Stayman—First, Geo. E. Murrell; second, Alfred Crouse. Plate Jonathan—First, Alfred Crouse. Plate Spitzenberg—First, Geo. E. Murrell. Plate Gano—First, Geo. E. Murrell. Plate Black Twig—First, R. A. Lapsley; second, Geo. E. Murrell. Plate Northern Spy—First R. A. Lapsley; second, Sydnor; third, Geo. E. Murrell. Plate Royal Limber Twig—First, Sydnor. Plate Paradise Winter Sweet—First, Geo. E. Murrell. second, J. B. Vaughan, Keysville, Va. Plate Buckingham—First, Geo. E. Murrell. Plate Mosby's Best—First, R. A. Lapsley.

Peaches—Plate Salway—First, Geo. E. Murrell. Plate Bilyeu—First, Geo. E. Murrell.

Plums—First, Alfred Crouse.

Pears—Plate Kleffer—First, G. R. Berryman, Cobham Wharf, Va.; second, Geo. E. Murrell. Plate Garber—First, Geo. E. Murrell.

Grapes—Plate Concord—First, Geo. E. Murrell. Plate of any other variety—First, Geo. E. Murrell.

Nuts—Plate Chestnuts (Foreign)—First, Geo. E. Murrell; second W. T. Hood, city. Plate chestnuts (native)—First, Geo. E. Murrell. Plate Shagbark hickory nuts—First, S. L. Garthright, city. Plate Black Walnuts—First, Geo. E. Murrell; second S. L. Garthright. For the best County Exhibit of fruits, sixty plates, comprising those mentioned above, and any others grown in Virginia; plates to conform to regulation, \$100; for second best, \$85; third, \$65; fourth, \$50; fifth, \$40; sixth, \$30. First and second, Geo. E. Murrell; third, A. B. Watson; fourth, E. A. Watson; fifth, A. B. Watson; sixth, E. A. Watson.

Edible nuts grown in Virginia. Native or of Foreign Origin—Collection must include white and black walnuts, hickory, hazel, chestnuts, etc., not less than one plate of each variety. First \$5; second, \$2.50. First, Geo. E. Murrell.

NURSERY EXHIBIT.

For display of general line of nursery stock, stock to be product of exhibitor, diploma—W. T. Hood, J. B. Watkins.

STATE FAIR NOTES.

Assistant Secretary of Agriculture, Hon. W. M. Hays, came down from Washington and took in the great show and pronounced it a most excellent one in every way.

Prof. C. S. Plumb, swine judge, had the remarkable experience of pleasing everybody, the Virginia Berkshire Association going so far as to pass resolutions commending his excellent judging.

Among the new exhibitors this year was C. F. Carter of Smythe county, who showed an excellent flock of Shropshires which landed many ribbons, including champion ram lamb, first yearling lamb, first and second ewe. He has for his shepherd Geo. Evans, from the native heath of this breed.

Maybe there was not some class to the yearling Short-horn bull, Elmendorf Marshall, sired by Whitehall Mar-

shall and owned by the Elmendorf Farm. Maj. J. T. Cowan was seen to cast a pair of covetous eyes at him.

The veteran Berkshire breeder, Thos. S. White of Lexington, was an interested spectator during the week.

The Fillmore Farm made its initial bow to the Virginia public at this Fair. C. C. Jones, superintendent, showed as fine a bunch of Dorsets as have ever been seen in the State.

The Shetland Ponies were very much in evidence this trip. Among the exhibitors were Dr. N. P. Snead, Hon. C. H. Nolting, H. C. Beattie and J. M. Cunningham.

Prof. H. H. Wing, of Cornell tied the ribbons in the dairy cattle class and gave splendid satisfaction.

S. W. Huff quit being president of the Coney Island and Brooklyn Railway long enough to come down and take in the Fair and was greeted by his many friends hereabouts.

The machinery exhibit was the largest and most extensive ever seen in the South, not excepting the Jamestown exposition.

Joe Wing of the Breeders Gazette, was on hand with his camera so that he could show his Western readers what a really great Fair is.

As usual, E. F. Sommers won in the under-six-months Berkshire boar class. Dr. Trice declares the pig was raised on a bottle.

In the Poultry Department J. F. Dunstan, proprietor of the White Poultry Yards, Lorraine, Va., must certainly have broken all records. He made 30 entries and got 30 ribbons, which is going some.

Former President Henry C. Stuart was a daily visitor and was heartily greeted by his friends.

Fredericksburg sent down a large contingent of interested stock men, among whom were seen Capt. M. B. Rowe, A. Randolph Howard, Capt. R. Conroy Vance, Count d'Ahdemar, John Green and C. S. Hooper. The latter took back Ineichen's prize winning two year old Red Poll bull, also an Oxforddown buck.

Another prominent gentleman seen about the grounds was Hon. D. S. Jones, President of the Common Council of Newport News and also of the Virginia State Dairymen's Association.

Albert R. Bellwood of Chesterfield county showed more varieties of grasses grown on his farm than were generally supposed to be found in the whole State.

Among the seedsmen and nurserymen exhibiting were T. W. Wood & Son, Diggs & Beades, J. B. Watkins & Bro., and W. T. Hood & Co. All had exceedingly attractive exhibits.

H. M. Myers, Lodi, O., attracted a great deal of attention with his 20th Century Farm Gate.

Strangers must have been struck with the large number of foreign exhibitors in the Machinery Department. Among them were the Alma Mfg. Co., Alma, Mich, showing the McVicker engine; The Thomas Mfg. Co., Springfield, O., drills, etc.; Fairbanks Morse & Co., Chicago, Ill. engines; Barbour Buggy Co., So. Boston, Va., buggies, carriages, etc.; Champion Potato Machinery Co., Hammond, Ind., potato machinery; De Laval Separator Co., New York, cream separators; W. J. Oliver Mfg. Co., Knoxville, Tenn., the new Oliver plow; Syracuse Plow Co., Syracuse, N. Y., plows; Vermont Farm Machine Co., Belkows Falls, Vt., U. S. Cream Separators; International Harvester Co., Chicago, Ill., engines, separators, spreaders, etc; The Smith Mfg Co., Chicago Ill., manure spreaders, separators and engines.

Among the Petersburg implement houses were Horace L. Smith, showing the Waterloo Gasoline Engine and Stockdell-Myer Hwd. Co., showing the New Way and Foss engines.

The Richmond implement houses certainly did themselves proud. The Watt Plow Co., the Implement Co., Hening & Nuckols, Hoenniger & Sizemore, Ashton Starke, the Sydnor Pump & Well Co. all had most extensive and elaborate displays of a full line of engines, farm machinery, etc., in operation and their exhibits were thronged at all times.

The Weather Man helped to make the Fair a great success.

SHEPHERD.

THE STATE FARMERS' INSTITUTE.

During the the Fair week a meeting of the Directors of this Institute was held here and it was decided to hold a winter meeting in this city in the last week of January or the first week in February, according as arrangements could be made for a hall to meet in. In connection with this meeting the State Corn Growers' Association will have an exhibition of corn and a Corn Growers' Institute. Professor Lyman Carrier, the Secretary of this Association, attended the meeting and the arrangements for this feature of the Institute were placed in his hands with the understanding that one day out of the three days of the Institute should be devoted to this subject. Committees were appointed to make the necessary arrangements for the meeting, and Mr. Henry W. Wood, Vice-President of the Richmond Chamber of Commerce, promised the co-operation of that body in insuring the success of the meeting. It is expected also to secure the co-operation of the City authorities in providing features of interest at the meeting. It is hoped that the members of the Institute will attend in large numbers and induce their friends to come with them to this city. The Legislature will then be in session, and the influence of the members of the Institute in promoting the enactment of legislation in the interest of the agricultural advancement of the State can be most effectively exerted. For further information on the subject, address Mr. B. Morgan Shepherd, the Secretary of the Institute, at this office.

A REPLY TO MR. HUSSELMAN.

Editor Southern Planter:

Have just read Mr. Husseleman's "What Virginia needs to improve her agricultural conditions" in your September issue, and while the greater part of the article is complimentary to the State itself, the paragraph preceding the last would seem to be an unjust reflection upon the common sense and courtesy of, not only Virginia, but of the entire South. As one of the drawbacks to immigration to the South from the North "prejudice" is given.

"Prejudice" against what? We of the Southland have been taught that intelligence, industry and wealth were characteristic of the North, and it would be strange that a people should not desire these attainments in immigrants. Very probably Mr. Husseleman may be referring to the issues of the 60's. It is an unpleasant subject to refer to, and one we could wish to be avoided, but we of the rural districts are pointed out as a "people prejudiced against the North." One unacquainted would think that the country people of the South were slow to realize that they were the real gainers from that struggle. Should we hold animosity towards a people who in their love and anxiety for us delivered us from the direct responsibility of over-seeing a profitless people, and from a system that was equally as detrimental to permanent prosperity, as injurious in its practice?

Can the South dislike a people who gave her an opportunity to exhibit to the world her military geniuses in the personalities of Lee and Jackson, Stuart and Forrest, that taught her to speculate on her great natural resources, and not upon human flesh? But for all this for which to be thankful, Mr. Husseleman's statement that there is "prejudice" to many people, would seem true, and possibly

(Continued on Page 1066.)

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WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles. Rejected matter will be returned on receipt of postage.

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PUBLISHERS' NOTES.
TO ADVERTISERS.

Please bear in mind that we must have all copy or instructions for advertisements by the 25th of each month without fail. Every month we are compelled to omit advertising in large volumes for the simple reason that copy does not reach us in time.

A NEAT BINDER.

If you will send thirty cents to our business office, we will send you a neat binder made of substantial Bristol board, in which you can preserve an entire volume of the Southern Planter. Many of our readers find this a useful device, as they always save their copies for reference.

A FARMER'S ACCOUNT BOOK.

We can furnish a very simple and complete account book for farmers' use for fifty cents, postpaid; or we will give a copy to every subscriber who will remit us \$1.00 for a three year subscription and ten cents to cover mailing.

This book contains records for labor, planting, buying, selling, breeding, and inventory and will last the average farmer for two or three years.

In the back of the book are gestation tables, rules for computing contents of corn cribs, hay stacks, etc.

SUBSCRIPTION OFFERS.

We call especial attention to the full page advertisement of subscription bargains in this issue. While we can save you money on pretty nearly any paper published, we are emphasizing at present a few really valuable books that every farmer should have in his library. Simply write us for prices on anything you want, not mentioned in the ad or the club list.

SOUTHERN POULTRY GUIDE.

This book is a crisp, concise work, 125 pages, illustrated, giving the results of Cal. Husselman's forty years' experience in the poultry business. It is especially written for the farmer with a flock of chickens, rather than the fancier with an exhibition pen. We have just arranged for another edition, the cost of which enables us to offer the book alone for 50 cents or, including a year's subscription to The Southern Planter, for 75 cents. Send in your order now.

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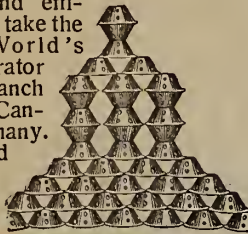
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WITH THE ADVERTISERS.

Parties having farms for sale are referred to the advertisement of E. W. Church.

Gilbert Bros. & Co. are advertising their well-known Yager's Liniment.

Leslie H. McCue has some nice Ringlet Barred Plymouth Rocks from his prize winners for sale.

E. F. Sommers, a well-known Berkshire breeder, is offering stock from his unbeaten boar. Look up his ad.

H. J. & C. G. Sanger have a splendid offering of Buff Orpingtons in this issue.

C. H. Nolting advertises Shetland Ponies for breeding purposes, also broken ponies for children.

John F. Lewis offers bargains in stock this month consisting of Percherons, Saddle Stallions and Berkshires.

Among the new advertisers this month is J. F. T. Anderson, offering Duroc-Jerseys.

Note the change in the advertisement of the Hollins Institute. Holstein cattle are offered.

Some fine Hackneys can be had of T. O. Sandy. He also offers young Holstein bulls.

Clarence Cosby offers bargains in pipe of various sizes, cattle stanchions, etc.

Mansfield Hall Farms have an attractive Jersey offering this month.

The Troy Chemical Co. is another new advertiser this month. Horse remedies of sterling value are offered.

Jersey bull and heifer calves and pure-bred poultry are the offerings of M. B. Rowe & Co. this month.

A. H. Patch starts the season's advertising of his handy little "Black Hawk" corn sheller this month.

The Chase Mfg. Co. have a manure spreader announcement on another page which will doubtless interest our readers.

The Queen Incubator Co. has an announcement in another column which should attract the attention of numerous poultrymen. Better look it up.

Furs, skins, etc., are wanted by the Schrieber Co.

The Acme Harrow is advertised as usual this season by Duane H. Nash.

The Babson Phonograph ad. should be an interesting one in view of the approach of Christmas.

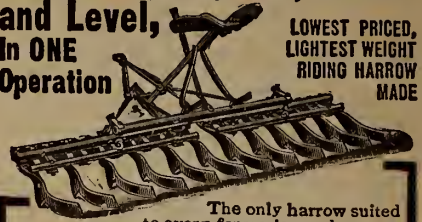
The International Harvester Co has a prominent manure spreader announcement on another page.

The "Want" ad. columns are teeming with numerous bargains.

Halifax Co., Va., Sept. 10, 1909. I cannot do without the Southern Planter. **CHAS. WECK.**

New Kent Co., Va., Sept. 14, '09. I think the Southern Planter is one of the best agricultural papers. **NEWTON THORSLAND.**

The Only Harrow That Will Crush, Cut, Lift, Turn, Smooth and Level, In ONE Operation



LOWEST PRICED, LIGHTEST WEIGHT RIDING HARROW MADE

The only harrow suited to every farmer's needs, every kind and every condition of soil. It is the

ACME Glod Crusher and Leveler

When you examine the construction of this harrow, and especially when you have tried it, you will understand why it has always been the favorite and why it is recommended more than all other harrows combined, in books written by agricultural authorities. Not an inch of soil escapes the sharp sloping knives and these knives cut through to the undersoil, chopping the sod or trash buried by the plow and leaving it buried, instead of dragging it to surface.

Sizes From 3 ft. to 17½ ft. Wide

The Acme is the lightest riding harrow made. Guaranteed against breakage, and will last a lifetime. Made of steel and iron. Ask your Dealer—or write to our Jobbers for prices and New Free Catalog; also containing valuable articles by experts on "Preparation of the Soil."

JOBBERS:

JOHN DEERE PLOW CO., ST. LOUIS, MO.
JOHN DEERE PLOW CO., NEW ORLEANS, LA.
SOUTHERN FARM TOOL CO., ATLANTA, GA.
RAWLINGS IMPLEMENT CO., BALTIMORE, MD.

Manufactured by **DUANE H. NASH (Incorporated)**
146 Central Ave. Millington, N. J.

SAVE MONEY ON ROOFING

\$1.00 buys full roll (108 sq. ft.) of strictly high grade roofing, either rubber or flint coat surface, with cement and nails complete. Most liberal offer ever made in first class roofing. Better than goods that sell at much higher prices. Don't spend a dollar on roofing until you have seen

UNITO ASPHALT ROOFING

You send no money when you order Unito Roofing. Satisfaction Guaranteed. Write today for free samples for test and comparison and our unparalleled selling plan.

UNITED FACTORIES CO., Dept. A6, Cleveland, O.



MONTROSS METAL SHINGLES



Outlast all other roofings. Manufactured by us over 20 years. Fire, Lightning, Storm proof. Ornamental. Inexpensive. They do away with all roofing troubles. Free catalogue gives full information.

MONTROSS METAL SHINGLE CO.,
113 Erie St., Camden, N. J.

DEAN EAR CORN CUTTER.



In 1, 2 and 4 hole size; Slices corn from ½ to 2 in.; does it rapidly; just the machine to prepare corn for calves, stock or fat cattle; no waste, they eat it all. Cutter returned at our expense if not satisfactory. Circulars free; write today.

Enterprise Wind Mill Co.,
Dept. 10 Sandwich, Ill.

Please mention the Southern Planter.

(Continued from page 1044.)

gested furnishes an 800-pound cow with the necessary amount of digestible nutrients to maintain herself and also to produce twenty pounds of milk. It is not well, however, to allow so little margin as appears here in feeding, because a cow may, if fresh, be able to increase her milk if she has the digestible nutrients from which to produce the milk.

Another matter to be considered is that a cow must have a sufficiently bulky feed to satisfy her; if she does not, then she will not digest the matter fed her as well as when she may have her appetite satisfied. If it is found that a cow is getting all the digestible nutrients required for her maintenance and milk production and she seems still hungry, then if she has access, say, to a straw stack she may pick enough to keep her satisfied, and then much more will be added to her milk production by reason of the fact that she is not worrying for something to eat.

W. D. SAUNDERS,
State Dairy Commissioner.

OF VALUE TO HORSEMEN.

Do you turn your horses out for the winter? If so we want to call your attention to a very important matter. Horses which have been used steadily at work, either on the farm or road, have quite likely had some strains whereby lameness or enlargements have been caused. Or, perhaps new life is needed to be infused into their legs. Gombault's Caustic Balsam applied as per directions, just as you are turning the horse out, will be of great benefit; and this is the time when it can be used very successfully. One great advantage in using this remedy is that after it is applied it needs no attention, but does its work well and at a time when the horse is having a rest. Of course it can be used with equal success while horses are in the stable, but many people in turning their horses out would use Caustic Balsam if they were reminded of it, and this article is given as a reminder.

Mr. G. D. McClaskey succeeds Otto Barth as advertising manager of the Queen Incubator Company, Lincoln, Neb., and in him the Queen people have secured a valuable man. Mr. McCloskey knows the printing trade, and, having been a poultryman all his life, and being an advertising and newspaper man by profession, he has all the qualifications necessary for success in his present field. For five years, Mr. McClaskey has officiated as judge at mid-west poultry shows, and he informs us that he will continue to take on a few shows each season. He will also devote some of his time to writing for the poultry and farm magazines.

A Neat Binder for your back numbers can be had for 30 cents. Address our Business Department.

Only the Best is Good Enough for the Family

THE YOUTH'S COMPANION

VOLUME 54, NO. 1
8120 A YEAR.
JANUARY 6, 1910.
G. C. COPT.

SOLDIERS OF PEACE
THE HON. JOSEPH W. FOLK
Governor of Missouri

MORE than Half a Million American Families read The Youth's Companion every week because they have found it "worth while"

The Volume for 1910 would cost \$30 if printed in book form. Each week's issue will be crowded with the reading that delights every member of the family.

For 1910—50 Star Articles by Famous Men and Women, 250 Stories, 1000 Up-to-Date Notes on Current Events, etc., 2000 One-Minute Stories will be printed.

FREE TO JAN. 1910

Every New Subscriber who at once cuts out and sends this slip (or the name of this publication) with \$1.75 for the 52 issues of The Youth's Companion for 1910 will receive All the issues for the remaining weeks of 1909, including the Thanksgiving and Christmas Numbers. The Companion's "Venetian" Calendar for 1910, lithographed in 13 colors and gold. Then The Youth's Companion for the 52 weeks of 1910—a treasury of the best reading for all the family.

Illustrated Prospectus and Specimen Copies sent upon request.

THE YOUTH'S COMPANION, BOSTON, MASS.

CORN BELT MILL

This mill is strongly constructed, and takes less power than any other mill of its capacity. The lathe-centered burrs insure fine, even grinding. The new feed regulator gives perfect regulation on ear corn as well as small grain. The burrs may be changed in three minutes. This feature is worth the price of the mill to a good many.

Try it 20 days FREE

We would like to have you test a Corn Belt Mill on your farm for 20 days. If it doesn't do its work better than any mill you ever used, send it back at our expense. Learn more about this mill. Write for booklet to-day.

SPARTAN MANUFACTURING CO.
DEPT. 50 PONTIAC, ILL.



FIRST NATIONAL BANK

Richmond, Va.

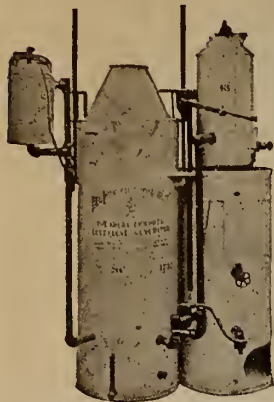
A strong, conservative, well-managed institution. A safe depository for all classes of customers.

Capital	\$1,000,000.00
Surplus	500,000.00
Deposits	6,000,000.00

JOHN B. PURCELL, President.
JNO. M. MILLER, Jr., Vice-Pres. and Cashier.

A Savings Department for the Thrifty.

See That Generator?



**Get
Good
Light
For
The
Price
Of
Bad.**

Be able to tell your blue dress from black. See while you are trying, without straining the eyes. No smoke, no globes to break or lamps to clean, or fall or explode; no danger of killing you while you sleep. Less work per month than one lamp. Costs less than Kerosene, and always ready at all times. We will send you one ready to put up. Write us to-day.
IDEAL EPWORTH ACETYLENE CO.,
620 Elder St., JOHNSTOWN, PA.

**The "MONARCH"
STEEL STUMP PULLER.**



The best and simplest on earth. No cost to you, except freight, until it is set up and giving satisfaction. Nine years experience in this business. Write for catalogue and prices.
JOS. W. RITCHIE, Agent,
Route 1, Grottoes, Va.

Don't Pay Two Prices for Stoves & Ranges



Buy at Factory Prices, Save \$18.00
HOOSIER STOVES
Are Wonderful "Fuel Savers and Easy Bakers." The 20 new 1910 improvements make them the finest stoves and ranges in the world. "Why not buy the best when you can buy them at such low unheard-of factory prices."
227 Hoosiers are delivered for you to use 30 days free in your own home before you buy. A written guarantee with each stove, backed by a Million Dollars. Our new 1910 improvements on stoves absolutely surpass anything ever produced.

Send Postal Today for Free Catalogue.
WOOSIER STOVE FACTORY, 102 State St., Marion, Ind.

BOILERS AND ENGINES.
16-horse Traction, \$300; 12-horse, \$250; 10-horse, \$200; boilers and engines from 2 to 100 horse, all styles and sizes, new and second hand; 4-horse gasoline engine, \$75; 8-horse \$150; 12-horse, \$200; Saw-Mill, \$135; boilers, tanks and smoke-stacks.
CASEY BOILER WORKS,
Springfield, Ohio.

HARVEY BOLSTER SPRINGS



Soon save their cost. Make every wagon a spring wagon, therefore fruit, vegetables, eggs, etc., bring more money. Ask for special proposition.
Harvey Spring Co., 733 17th St., Racine, Wis.

Free Trial To You

(Continued from page 1062.)

has appeared so to him. It is something like this: When the Northern man coming South attempts to convert the Southerner to the principles agitated in the North previous to the Civil War, then is observed this so-called "prejudice." The Southerner is thoroughly convinced that the doctrine of State's rights was, and is, a fundamental principle of American liberty, and they recognize the fact that they and their fathers did not fight for the upholding of slavery, but for the right to settle sectional problems among and between themselves.

Virginia is reverent to the memory and holds in sacred love the hallowed principles of her famous past. She cannot and will not easily forget the valorous deeds and noble suffering of her dutiful sons when they so willingly bled and died at her request, and on her flame-wreathed hills and blood-stained valleys bore to victory and glory her banner representing what she believed was right. There is a loving place in every Southern heart kept sacred to the love of the followers of Lee, and it would be more satisfactory if the Northerner would not attempt to dislodge it.

I am sure that Mr. Husselman is unacquainted with Reconstruction and Carpet-baggery, which fairly reeked with insult and injury to an over-powered South. But in the face of all this the Northerner must not attempt to preach love to us, but rather practice it, and if these questions arise in friendly discussion Mr. Husselman must not mistake an honest opinion as "prejudiced." We want the Northerner with his energy, intelligence and modern improvements, we need him and have no doubt but that he will find a friendly greeting and social welcome so long as he grants the same freedom of opinion that he expects for himself. Let him come not expecting to convert us to his view of the Civil War, we are unconvertible in that respect, but we want his assistance in present difficulties, and are glad to avail ourselves of the opportunity to secure this. Let him come in the above manner, bearing no malice and he will find none, and he will find the South has not forgotten how to be courteous or hospitable. This is written in no spirit of ill will, but only to explain why some immigrants may find what they mistakingly define as prejudice.

H. C. COLEMAN.
Warren Co., N. C.

Pittsylvania Co., Va., Sept. 5, 1909.
I could not farm without the Southern Planter. **JOHN P. EASLEY.**

Essex Co., Va., Sept. 15, 1909.
The Southern Planter is of much interest and value to me in the good suggestions I get from it.
H. L. BAYLER.

**BARGAINS IN
2nd Hand Machinery.**

For Sale by

The Watt Plow Co.,

Richmond, Va.

One 8 H. P. Peerless Geiser Engine and Boiler, on steel wheels, used two months, and as good as new.

One 8 H. P. Frick Eclipse Boiler and Engine, on wheels, in first-class order; just overhauled.

One 12 H. P. Ames Engine and Boiler, on wheels, just overhauled in our shop, and in first-class shape.

One 25 H. P. detached Erie Engine, without boiler.

One 20 H. P. Peerless (Geiser) Engine and Boiler, on steel wheels, used eighteen months, and in first-class condition in every way.

One American Combined Lath-Mill and Bolter, with two inserted Tooth-Lath Saws and one inserted Tooth Bolting Saw.

One 20-inch Sweepstakes Planer, Matcher and Molder complete, with countershaft and pulleys.

One 12 H. P. Second-hand Lightning Balance Gasoline Engines, mounted, manufactured by the Kansas City Hay Press Co.

THE WATT PLOW CO.,
1426 E. Main St., Richmond, Va.

NEW AND USED PIPE Black and Galvanized

Re-threaded, Asphalt-Coated Used Black Pipe with couplings, per foot:
¾-in., 2¾ c. ft.; 1-in., 3¼ c. ft.; 1½-in., 4¾ c. ft.; 1¾-in., 5¼ c. ft.; 2-in., 7¼ c. ft.

CLARENCE COSBY
Richmond, Va.

DEHORNS INSTANTLY



Slight pain—stumps heal quickly. Money back for every Keystone Dehorning Knife not satisfactory. Send for booklet of valuable dehorning facts.

M. T. PHILLIPS,
119 Main St., Pomeroy, Pa.

"KANT-KLOG" SPRAYERS Spraying Guide Free

Something New
Gets twice the results with same labor and fluid.
Flat or round, fine or coarse sprays from same nozzle. Ten styles. For trees, potatoes, gardens, whitewashing, etc. Agents Wanted. Booklet Free.

Rochester Spray Pump Co. 21 East Ave. Rochester, N. Y.

OSGOOD "Challenge" Wagon Scale

Who weighs the products that you buy and sell? If you use somebody else's scales, you're going more or less "by guesswork." Install an Osgood Scale of your own and KNOW your weights—get full value for everything. Many styles to select from. Prices within your reach.
Write for Catalogue
OSGOOD SCALE CO.,
BOX 205 BINGHAMTON, N. Y.

Please mention the Southern Planter.

CONGO

NEVER LEAK

ROOFING

Our Guarantee

The advantage in buying Congo Roofing (3-ply) is that you can be absolutely sure of getting protection from sun and rain for ten years. There is no guess work about it. With every roll of 3-ply Congo comes a blank Surety Bond Guarantee numbered and ready for our seal and signature as soon as your roof is laid. The guarantee states that if you need a new roof inside of ten years you will get it free and that the National Surety Company will see to it that you get it (or its equivalent in cash). It is a legally binding and instantly enforceable document—a real contract such as your own lawyer would draw up for you. Every possible contingency is provided for. Every fair protection is given you. It is the only such guarantee that applies to any ready roofing to-day! Other guarantees are mere non-enforceable statements that would prove worthless in a law suit. But the Congo guarantee is a real guarantee, and it makes you absolutely sure of the amount of service you will get for your money.

When you buy other roofings you buy roofing material whose probable durability is vague and indefinite. When you buy Congo (3-ply) you buy ten years of assured protection, and the guessing does not begin till after the guarantee term expires.

Why buy a Roofing Riddle when you can (just as cheaply) buy a Congo certainty?

UNITED ROOFING AND MFG. CO.,
600 West End Trust Building,
Philadelphia, Pa.
Chicago. San Francisco.

BEST, SIMPLEST, MOST DURABLE

STANCHIONS & STALLS

STABLE AND BARN.
Up-to-Date Sanitary Fixtures.
COLUMNS, PIPE, TANKS AND TROUGHS.
CLARENCE COSBY,
Richmond, Va.

Monarch Hydraulic Cider Press



Great strength and capacity; all sizes; also gasoline engines, steam engines, sawmills, threshers. Catalog free.

Monarch Machinery Co., 610 Cortlandt Bldg., New York

SILOS that make and keep real ensilage; that have the utmost strength and convenience and durability; that are used by the United States government. Send for free catalogue.

HARDER MFG. COMPANY,
Box 32, Cobleskill, N. Y.

(Continued from Page 1047.)
Sir Wooster, the bay gelding, 5, by imp. Ardington, dam Lady Wooster, by Wooster, won the Brook Cup Handicap Steeplechase, distance about three miles, at Belmont Park, with Rampart second, and St. Nick third, and Defiance unplaced. Sir Wooster was bred by Col. Robert Neville, in the Pelham Stud, at Upperville, where his dam, Lady Wooster, also produced another high class steeple chaser in Mr. McCann, by imp. Contract. The bay gelding, Waterway, another Virginia bred horse, by imp. Waterlove, out of Runaway, By Algerine, also won a handicap steeple chase at Windsor doing the distance, about two miles, in 4:33 and defeating a field of five.

In the death of Sandy Creeker, which was of the tragic sort, and occurred at Belmont Park, New York, on Monday last, one of the most useful of Virginia bred steeplechasers passed away. He was a blood-like chestnut gelding, five years old, and bred by General William T. Townes, of the Aftongreen Stud at Culpeper, sire being Aloha and his dam Turca, also the dam of Tahoo and Bergoo, one of this season's good steeplechasers. Turca was sired by Tristan or Turco, dam Silver Blue, by the famous Longfellow. Regarding the death of Sandy Creeker, a New York exchange offers the following:

"The steeplechase was the last in which the good hunter Sandy Creeker will ever run. After clearing six hedges, Sandy Creeker fell at the jump directly in front of the grand stand. He landed on his haunches and sat there. Jockey Turnburke then slid out of the saddle. After some effort Sandy Creeker managed to stand up on three legs. One of his hind legs dangled painfully. He tried to walk, but only hobbled, and it was quickly decided to put the horse out of misery, and in view of the horrified spectators a gun was pressed against the horse's forehead and Sandy Creeker went down in a heap, his racing career over. Pretty Michael, the favorite, won the race from Andrew Summers.

Secretary James W. Graves of the Deep Run Hunt Club, who is a loyal patron of cross country sport, will ride to hounds during the earlier part of the season the big and handsome heavy weight hunter, Kingsman, the brown gelding by Guardsman, a blue ribbon winner in the show ring. Mr. Graves also owns the thoroughbred geldings, Highspire and Rutledge, the former a bay four years old, of high finish and quality, by Mesmerist, out of Miss Longford, by Longfellow, while his stable companion, a year younger, is a good looking chestnut in color, by imp. Orlando, dam Miss Hawkins, by imp. Billet, Both Highspire and Rutledge are in the stable of Frank Allen at the State Fair Grounds track, who is schooling them over the jumps.

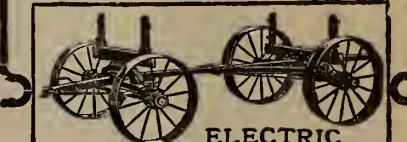
YOU

Can Save a Lot of Work
Can Save a Lot of Money
Can Increase Your Comforts
Can Increase Your Profits

If you are interested in those things we'd like to send you our new book about **ELECTRIC STEEL Wheels** and the **ELECTRIC Handy Wagon**

More than a million and a quarter of them are in use and several hundred thousand farmers say that they are the best investment they ever made. They'll save you more money, more work, give better service and greater satisfaction than any other metal wheel made—because **They're Made Better**. By every test they are the best. Spokes nailed to the hub. If they work loose, your money back. Don't buy wheels nor wagon until you read our book. It may save you many dollars and it's free.

ELECTRIC WHEEL CO.,
Box 146 Quincy, Ills.



ELECTRIC

THE EMPIRE WAY—THE BEST WAY



Experience has taught us what is best. Quality talks and counts, too. Here's evidence. "Gentlemen.—I got a set of Empire Wheels about 16 years ago. Have used them constantly and there has never been any trouble since I got them." We make them even better now. Write for catalog. **EMPIRE MFG. CO., Box 250, QUINCY, ILL.**

WHEELS, FREIGHT PAID \$8.75
for 4 Buggy Wheels, Steel Tires. With Rubber Tires, \$15.00. 1 mfg. wheels 1/4 to 1/2 in. tread. Buggy Tires \$5.60, Shafts 2.00. Top Buggies \$12; Harness \$5. Learn how to buy direct. Catalogs Free. Repair Wheels, \$5.60. Wagon Umbrella FREE. W. V. 600B, Gladland, O.

AGENTS 200% PROFIT
Handy, Automatic **HAME FASTENER**
Do away with old hame straps. Horse owners and teamsters wild about them. Fasten instantly with gloves on. Outwear the harness. Money back if not satisfactory. Write today for confidential terms to agents. **F. Thomas Mfg. Co., 869 Wayne St., Dayton, Ohio**



Rockford Engine Works.
Dept. 35, Rockford, Ill.
The Engine that will please you

Before you contract or buy write for our proposition



Rockford
Near Nobby-Handy.
All Styles 3 to 30 h. p.

\$1500 to \$5000 a Year
has been made by hundreds of people operating the **"American" Drilling Machines**

There is no business in the world where a few hundred dollars investment, combined with a little energy, will obtain a competency so surely or quickly as the operation of an "American" Well Machine. 40 years' experience and 59 regular styles and sizes make them the world's standard. Complete New Catalog **FREE**. **The American Well Works** Gen'l Office & Works, Aurora, Ill. First Nat. Bank Bldg., Chicago. **Sydnor Pump Company, Richmond, Virginia.**



Please mention the Southern Planter.



UMC
NEW CLUB
SHOT
SHELLS
 For all kinds of Game

KNOWN the country over as "the old yellow shell." For nearly 50 years it has stood at the top in popularity. In fact it was through the use of UMC New Club shells that the great army of American sportsmen learned to prefer UMC shell quality.

Loaded with black powder, celebrated UMC wads and any size or quantity of shot.

If you prefer smokeless powder, get UMC Nitro Clubs.

Made for Remington and all other Shotguns.

Game Laws Free.

THE UNION METALLIC CARTRIDGE COMPANY, Bridgeport, Conn.
 Agency, 315 Broadway, New York City



WANTED
 = Bills to Collect =

In all portions of the United States. No collection, no charge. Agencies wanted everywhere; 25 years' experience. **PALMORE'S COLLECTION AGENCY**, 911 Main St., Richmond, Va.

ORNAMENTAL FENCE
 Cheaper and more durable than wood. For Lawns, Churches, Cemeteries, Public Grounds. Also Farm and Poultry Fence. Catalogue free. Write for Special Offer. **THE WARD FENCE CO., Box 517, Decatur, Ind.**

FENCE STRONGEST MADE. Bull strong chicken-tight. Sold to the user at Wholesale Prices. We Pay Freight. Catalogue free. **COILED SPRING FENCE CO., Box 52, Winchester, Indiana.**

254 PAGE CATALOG FREE
 TELLING HOW TO SAW LUMBER, SHINGLES, WOOD, GRIND CORN AND WHEAT; ALSO DESCRIBING FULL LINE OF ENGINES, BOILERS, GASOLINE ENGINES, WATER-WHEELS AND MILL GEARING. **DELOACH MILL MANUFACTURING CO., Box 263, Bridgeport, Alabama.**

PRIZE WINNERS, POULTRY DEPARTMENT, VIRGINIA STATE FAIR.

Anconas—Geo. E. Governator, first cock, fourth and fifth hen; C. L. Shenk, Luray Va., first, second and third hen, first and second cockerel, first and second pullet.

Bantams—Golden Sebright—Dennis Bros., Binns Hall, Va., first cock, second hen, first and second cockerel, first and second pullet; G. E. Governator, first, third and fourth hen, first pen. Silver Sebright—Dennis Bros., first cock, first hen, first cockerel.

White Rose Comb—Dennis Bros., first cockerel, first, second and third pullet. Black R. C.—Dennis Bros, first cock, first, second and third hen, first and second cockerel, first, second and third pullet. Light Brahma—G. E. Governator, first cock, first, second and third hen. Bare Neck—Patrick Carroll, Richmond, first hen, first cockerel, first and second pullet.

Buff Cochin—J. W. Brinsler, Manchester, Va., first cock, first hen; Geo. E. Wray, Richmond, second cock; B. D. Hobson, Richmond, second, third and fourth hen, first, second and third cockerel, first, second and third pullet; John Lindsay, Richmond, first pen young; C. L. Shenk, Luray, Va., first pen Old Partridge Cochin—G. E. Governator, first, second and third hen.

White Cochin—G. E. Governator, first hen.

Black Cochin—G. E. Governator, first and second hen.

Black Tailed Japanese—G. E. Governator, first, second and third hen; Dennis Brothers, first and second cockerel, first, second and third pullet.

Cuban Bantams—Dennis Bros., first cockerel, first pullet.

Polish Bantam—Dennis Bros., first and second cock, first, second and third hen, first and second cockerel, first, second and third pullet.

Black Breasted Red Game Bantams—Dennis Bros., first cock, first hen, first cockerel, first pullet; John Lindsay, second hen.

Brown Red Game—G. E. Governator, first, second and third hen.

Golden Duck Wing—Dennis Bros., first cockerel, first, second and third pullet.

Silver Duck Wing—Dennis Bros., first cock, first hen, first, second and third cockerel; first, second and third pullet.

Frizzles—John Lindsay, first hen.

Red Pyle Game—Dennis Bros., first cockerel, first pullet.

White Game—Dennis Bros., first, second and third cockerel, first, second and third pullet.

Black Game—Dennis Bros., first hen; first pullet.

Old English Game—G. E. Governator, first cock.

Wheaten Black Red—Dennis Bros., first and second hen, first pullet.

Light Brahmas—G. E. Governator, first cock, first, third and fourth hen; L. T. Webster, Barton Heights, City, second cock, second hen, first cocke-

BROWN
HEAVIEST FENCE MADE HEAVIEST GALVANIZING
 Most of your neighbors have fence troubles. You can avoid them by buying **Brown Wire Fence**. Absolutely rust proof. 15 to 35c a rod. We pay freight. 160 styles, from extra close 1-inch spaced Poultry Fence, to the strongest Horse, Cattle, Hog & Bull Proof Fences. Get catalog and free sample for test. **Brown Fence & Wire Co. Cleveland, O. Dec. 1, 1908**

\$100 that the 20th CENTURY FARM GATE is the most simple and practical farm gate ever produced. Do you want to make money? **Lodi, Ohio.**
H. M. MYERS, Sole owner Pats. U. S. and Canada.

ALWAYS IN ORDER
MANLOVE Automatic Gate
 Saves time, adds to value, safety, beauty and pleasure of home.
MANLOVE GATE CO., 272 E. Huron St., CHICAGO, ILLS.

15 Cents a Rod
 For a 22-inch Hog Fence, 16c for 26-inch; 19c for 31-inch; 23 1-2c for 34-inch; 27c for a 47-inch Farm Fence. 60-inch Poultry Fence 37c. Lowest prices ever made. Sold on 30 days trial. Catalog free. Write for it today.
KITSELMAN BROS., Box 14, MUNCIE, IND.

Don't Rust Farm Fence
 Extra heavily galvanized. Sold direct to farmers at manufacturers' prices, and freight prepaid, 30 days free trial. Also Poultry and Ornamental Wire and Iron Fences. Catalogue free. **The Ward Fence Co., Box 517, Decatur, Ind.**

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Handsome 3-room house, gravitation water supply, hen house, carriage house, dairy, stable and cow shed, all in first-class repair. Dwelling has just been newly papered and painted inside and out. Good orchard of 250 apple trees, besides peach orchard and other smaller fruits, all in full bearing; good fishing and hunting in season. Long distance and local 'phones in house; 1½ miles from Linden Station, Southern Railway, 65 miles from Washington with three trains each way daily.

Land is naturally strong bluegrass soil, and I will sell the buildings with from 80 to 200 acres of land, according to the wishes of the purchaser. The apples and grazing alone will pay a handsome interest on the investment. Will sell at a bargain.

For further information apply

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FARMS NEAR WASHINGTON.

Unsurpassed as money-makers; best place on earth for farmers, dairymen, stockmen or poultrymen; mild climate best markets in country; highest prices; no such word as "Fail" for industrious man. Big bargains here now. 3,500 places to select from. Catalogue free.

THE SOULE CO., Washington, D. C.
Largest Farm Dealers in the South.

Old Virginia Farms.

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CASSELMAN & COMPANY,
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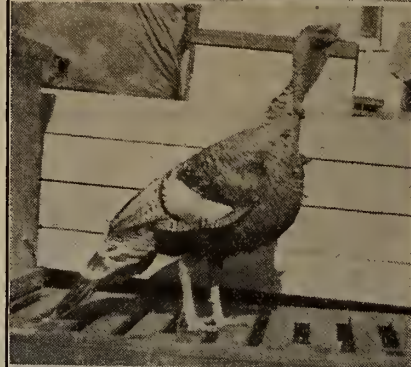
150 ACRE FARM

For sale; 50 acres under good cultivation, 100 acres in good timber; 7-room house; crops, stock, poultry and farm implements; on the main road to Richmond, Va.; half mile to railroad and school. Price, \$6,500. Wm. Maurer, Midlothian, Va.

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Homes for all; health for all; happiness and independence for all. All sizes of Farms at corresponding prices but ALL reasonable.

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FOR SALE AT A BARGAIN

181½ acres, 3 miles from Salisbury, N. C. Good soil, good roads, plenty of timber; 30 acres in cultivation; 30 acres of meadow with over 500 rods of ditches. Will produce three crops of hay a year; one acre of strawberries; good young orchard; two sets of buildings. Fine location for a dairy.

—ALSO—

207 acres 4½ miles from Salisbury and three miles from Spencer, N. C., on macadam road and telephone line, school and church across road; about 35 acres in cultivation; good meadow; will saw over 500,000 feet of pine, oak and poplar lumber; would cut over 5,000 cords of wood.

For price and terms address

D. W. BURRIGHT, 405 S. Ellis St.,
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VIRGINIA FARMS

180 acres with good buildings, convenient to Richmond, \$5,800.

62 acres, dwelling, outbuildings, store, good farm land, \$1,500.

615 acres, colonial Virginia home, stock and dairy farm, close to electric and steam railroads, between two cities, 5 minutes walk to car line. Particulars on application.

575-acre timber tract, 1½ miles to railroad, good dwelling, fine farm land. Price, \$8,000.

BLANTON & PURCELL, Agts.

1110 E. Main St., Richmond, Va.

FARM FOR SALE.

500 acres, about 2½ miles from wharf on Potomac river, 2 miles from Brooke Station, R. F. & P. R. R., 38 miles from Washington; about half cleared, the remainder in virgin forest of fine timber. The soil is very fertile, produces splendid wheat, corn and grass. Have been offered \$2,000 for the timber on the place. A rare bargain. Superb fishing and shooting. Price, \$7,500. For further information apply

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C & O RAILWAY VIRGINIA FARMS

Along Chesapeake & Ohio Railway as low as \$10.00 per Acre. Rich Soil, Mild Winters, Good Markets. For handsome Booklet and Low Excursion Rates, address G. B. WALL, Real Estate Agent, C. & O. Railway, Box A 5, Richmond, Va.

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From the Mountains to the Ocean. Catalogue free. Loans made on farms. Established 1875.

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PLANET JR., IMPLEMENTS.

Do the work of 6 men in the garden or on the farm. 1909 catalogue of 45 kind free.

S. L. ALLEN & CO.,
Box 1107-X Philadelphia, Pa.

Illustration: At top, first White Wyandotte Hen, R. R. Taylor; second, first Narragansett Tom, J. F. Dunston; third, first Pekin Drake, J. F. Dunston; fourth, first War Horse Game, J. A. Duffy; fifth, first White Wyandotte Pullet, R. O. Berger.

Swallows—Ed Keck, first.
Maltese Hens—Ed Keck, first and second.

White Dove, Ed Keck, first.
White Fans—Ed Keck, second; F. E. Sears, Newport News, Va., first and third.

Tumblers, Brown—J. A. Ellett, Beaver Dam, first, second and third.

Buff Tumblers—J. A. Ellett, Beaver Dam, first.

Yellow Dragon—J. W. Brinser, Manchester, first.

Yellow Cheek—J. W. Brinser, Manchester, first.

Black Homers—J. H. Atkins, first; J. M. Elmore, second and third; Joe Torrence, fourth and fifth.

Silver Homers—J. M. Elmore, first and second.

White Dragons—J. M. Elmore, first, second, fourth and fifth; Joe Torrence, third.

Homers—C. W. Montgomery, fourth and fifth; Stanley Lipscourt, first, second and third.

Black Dragons—Joe Torrence, first.
Tumblers, L. I. C. L.—Joe Torrence, first, second, fourth and fifth; Roy Torrence, third.

Blue Fans—Roy Torrence, first and second.

Magpies—Governator, first and second.

Black Fans—L. M. Ellis, first; Governator, second.

Jacobins—L. M. Ellis, first, second and third.

Virginia Wild Turkeys—R. L. Blanton, Richmond, Va. first.

Mexican Turkeys—R. L. Blanton, first.

Golden Pheasants—R. L. Blanton, first cock; first hen.

Reeves' Pheasant—Governator, first cock and first hen.

Silver Pheasant—Governator, first cock and first hen.

Pea Fowl—Governator, first cock and first hen.

Rabbits, Belgian—John L. Harrison, Richmond, Va., second and third buck; second doe. Geo. T. Hogg, first, fourth and fifth buck; first, fourth, and fifth doe; first doe and litter.

Lop Eared Belgian—Dan Coleman, first doe.

Hungarian—Geo. G. Munce, Richmond, Va., first buck.

Common Rabbits—first and second doe; Geo. G. Munce, third doe.

Short Hair Guinea Pigs—Marshall Munce, first, and second male; first and second female.

Long Hair Guinea Pigs—Marshall Munce, second male; second female; Ingram Taylor, Manchester, first male, first female.

Rensselaer Co., N. Y., Sept. 20, '09.

Allow me to congratulate you on the quality of your splendid paper, The Southern Planter. It is doing a noble work for the farmers of America, and I wish you success and prosperity.
J. W. STOW.

The Oldest Established Agency in Northern Virginia

Stock Farms Near WASHINGTON, D. C.

Stock Farm, 190 acres, in the corporation of Herndon, on macadam road, surrounded by the most desirable neighbors. In a high state of cultivation, all in grass; improvements, including tenant house, horse barn, cow barn with stanchions for 60 cows, carriage and wagon shed, feed rooms, and milk house with separator that cost \$200. Finely watered, just rolling enough and free from rock. The most desirable proposition to be had in this section. Price \$10,500, on easy terms if desired.

264 acres in Fairfax county, 6 miles from rail over good roads; close to school and church; 51 acres in timber; fine fencing; two lasting streams and spring; all kinds of fruit; colonial house of 8 rooms in excellent condition; beautiful grove. Fair barn, 24x30, and all necessary outbuildings; located on pike 7 miles from electric line; best red clay—bluegrass land, just rolling enough to drain well; best of neighbors. Price \$10,500 if sold at once.

212½ acres in Fairfax county; 1½ miles from rail, 7 miles from electric line, 2 miles from thriving town on two public roads; 30 acres in timber; 2 miles of woven wire fencing, rest stone and rail; seven fields with spring in each; 10 acres in fine orchard; good stone and brick house of 10 rooms with bath; hot and cold water in kitchen, two porches; well located in grove of trees; good barn with basement for 40 cows and 7 horses; all necessary outbuildings. This farm is surrounded by good neighbors in a nice section. Price \$10,500 if sold in a reasonable time.

469 acres in Fairfax county; 5 miles from railroad, 7 miles from electric line; 200 acres in timber, mostly oak, balance in crops and grass, crops to go to purchaser; clay soil, just rolling enough to drain well; two houses and two barns; new house of eight rooms, old house of five rooms. Including stock, farm implements, crops and everything. Price \$11,000, on very easy terms. Make us an offer. The owner not being able to look after this farm will sell it at a bargain.

264 acres, 5 miles from station, in Loudoun county; 30 acres in timber; two wells, one never-failing spring, 7-room house; barn and outbuildings fair. A fine stock farm, paying 12 per cent. on investment; in a good state of cultivation. Price \$7,000, \$3,500 down, balance to suit. This farm is not in the hands of any other agent.

277 acres in good state of cultivation; just rolling enough; in a good neighborhood; 5 miles from railroad, in Loudoun county; 70 acres in timber, most oak, part of it first-class; faces on two roads; has been operated as a cattle, sheep and hog farm for 25 years. On account of old age the owner is offering his farm for much less than its true value. It is well fenced, two houses in first-class condition—one 10-room house, the other six rooms. Large barn and all necessary outbuildings. Price \$8,000, one-half down, balance to suit. This farm is not in the hands of any other agent.

40 acres, 3 miles from railroad, close to school, church, store, etc.; in a good state of cultivation; close to macadam road; 6-room house, shaded; good barn and all necessary outbuildings. Price \$3,000, if sold at once.

227 acres, 4½ miles from rail over macadam road; mostly in timber, about 100 acres scattered over the whole—white oak, hickory and some valuable cedar; about the only small tract in this section for sale that has not been cut over for a great many years. About 50 acres could be easily cleared up to be put under cultivation. Well watered and surrounded by high-priced farms—smooth, free from stones and not hilly—easy to work. The location makes it very desirable after the timber is taken off, and the timber will come close to paying for it. Just the thing for a man who has had some experience in getting out timber and wants a good farm that has never been worked. Price \$25 per acre. Will consider an offer for the timber alone.

CHEAP PLACE FOR QUICK BUYER.

73½ acres, 2 miles from electric line; good 5-room house; small barn and hen house; 20 acres in timber and wood, the rest under cultivation; plenty of fruit of various kinds; crops, good farm horse, fine cow, two shoats, poultry—everything included for \$3,250. \$1,100 trust can run as long as one sees fit. Let me show it to you at once.

ONE OF THE BEST SMALL FARMS FOR SALE IN LOUDOUN COUNTY.

71 acres, under high state of cultivation; just rolling enough; beautiful outlook and high elevation; close to rail and village, and almost in sight of graded school, including high school; fine spring and water in every field; splendid apple orchard, peach and other varieties of fruit; new house of 8 or 9 rooms with porch; tenant house; basement barn and all necessary outbuildings; nice lawn and shade. Price only \$8,400. This place would be cheap at \$9,000.

THIS PLACE HAS JUST BEEN PUT IN MY HANDS FOR SALE.

155 acres, 5 miles from rail and good town; 2 miles from river, 1 mile from school and church; 50 acres in second growth timber; springs and lasting streams; apple and peach orchard; excellent house of seven rooms with oak grove; new barn and good outbuildings. Price \$4,700.

A. H. BUELL,

Real Estate Broker,

HERNDON, VA.

How to Get Rid of Catarrh

A Simple, Safe, Reliable Way, and it Costs Nothing to Try.

Those who suffer from catarrh know its miseries. There is no need of this suffering. You can get rid of it by a simple, safe, inexpensive home treatment discovered by Dr. Blosser, who, for over thirty-five years, has been treating catarrh successfully.

His treatment is unlike any other. It is not a spray, douche, salve, cream, or inhaler, but is a more direct and thorough treatment than any of these. It cleans out the head, nose, throat and lungs so that you can again breathe freely and sleep without that stopped-up feeling that all catarrh sufferers have. It heals the diseased mucous membranes and arrests the foul discharge, so that you will not be constantly blowing your nose and spitting, and at the same time it does not poison the system and ruin the stomach, as internal medicines do.

If you want to test this treatment without cost, send your address to Dr J. W. Blosser, 790 Walton Street, Atlanta, Ga., and he will send you by return mail enough of the medicine to satisfy you that it is all he claims for it as a remedy for catarrh, catarrhal headaches, catarrhal deafness, asthma, bronchitis, colds and all catarrhal complications. He will also send you free an illustrated booklet. Write him immediately.

FELKER'S NICOTINE



Stomach-Worm Remedy (A Capsule).
The Great Internal PARASITICIDE.
 The only known Destroyer of Stomach Worms. Guaranteed.
 Price \$3.00 per box of 60 doses, prepaid.
 We want a sheepman in every locality to act as our agent. Write for terms.

W. A. Felker Mfg. Co., Quincy, Ill.

MINOR'S FLUID

SHEEP AND HOG DIP.
 Its use permitted in official dipping. Low prices on Dipping Tanks. Testimonials and circulars for the asking.

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DO YOU WANT EGGS

S. P. S. Multum Ovum will fill your egg basket. Liberal terms to agents. Stone's Red Powder will cure roup; 25c. postpaid. Agents wanted.

SOUTHERN POULTRY SUPPLY CO.
 824 Ninth St., Washington, D. C.



Send for Booklet Horse Troubles
DEATH TO KEAVES
 Heave, Cough & Newton's Distemper Cure Guaranteed or Money Back. \$1.00 per can, at dealers, or Express Paid. 18 Yrs' Sale. THE NEWTON REMEDY CO. Toledo, Ohio.

BRIEF CORRESPONDENCE.

"Ralph Morgan's" Picture.
 Macon, Va.

Southern Planter,
 Richmond, Va.

Gentlemen:—It is my opinion as well as that of others who have seen this beautiful stallion, that scant justice was done "Ralph Morgan" by the photo you published in your October issue. It does not show style, the very thing of which he is so full. He is the best specimen of the general purpose driving horse I have ever seen in this county and I am indeed glad that such a splendid specimen has been procured for this section. I am quite sure that many of our people will avail themselves of his services.

Oct. 19th J. W. P.

Rochester, N. Y., Oct. 8, 1909.
 Southern Planter,
 Richmond, Va.

The first copy of your journal that I have ever seen has just come to my notice and I have taken great pleasure in reading it. Of all the agricultural periodicals that have come to my attention yours comes the nearest in my estimation, to being the ideal. There are only two other publications in a class with you.

During the month a copy of every agricultural publication of any importance in this country comes under my eyes. I speak therefore after wide comparison.

This is written in appreciation of the work your journal is doing. I believe in bestowing deserved praise.

With best wishes to you in your work, believe me, yours very truly,

JOHN R. GALLAGHER,
 Asst. Bus. Mgr., Nat. Nurseryman.

Wheeling, W. Va., Oct. 9, 1909.
 Southern Planter,
 Richmond, Va.

I take nearly all the farming journals and the ones I don't take I get to read, as other members of the family take them. While one or two of the others are good, the Editor of the Southern Planter I consider knows more about farming and is broader minded than any of the others. His advice more nearly agrees with what I get from practical farmers and from the best Agricultural Stations combined.

I think the Agricultural Colleges are doing a good work. I have written to several of them and always get courteous replies and specific directions. Very truly yours,
 C. E. BLUE.

IS YOUR FAMILY READING "WORTH WHILE"?

So much of current reading is merely entertaining at best that the question naturally arises, Is it worth while? Your sons and daughters are bound to read something. They hunger for stories which take them into the other half of the world—the world of adventure, of valor, of fortune making. The problem is to give them such reading without putting

FOR THE SAKE OF

25 Cents

Do you think it wise or proper that you should impair the health, the comfort or happiness of yourself or any member of your family? Or for the same trifling coin do you think it profitable or proper to decrease the value of your live stock? If you but think for a moment, your answer must be No!

THEN—if you are a sufferer or any member of your family suffers the severe pain of Rheumatism, the pain or discomforts of a Sprain, Wrench, Strain of Muscles, or Pain in the Back; or if your horse is in any way afflicted, why not go at once—to-day, to your nearest store or druggist and for twenty-five cents get a bottle of YAGER'S Cream Chloroform LINIMENT? It is undoubtedly the best and most effective Liniment for both Man or Beast, family or stable use that has ever been introduced. It will kill the Pain in every instance. Get one bottle and try it—you could not spend a quarter to better advantage than for a bottle of Yager's Liniment.

THEN AGAIN—If you have a horse that is Galled or has a Colic Boil, Scratches, cut, Pricked by Barb Wire, or has a sore of any kind; not only a horse, but a cow, or any domestic animal; or a member of your family has a sore of any kind, take twenty-five cents to the store or druggist and get a bottle of WILSON'S GOLDEN SUCCESS HEALING POWDER; it will positively heal any sore and do it quickly. These two remedies will actually do what is claimed for them.

They are prepared by
GILBERT BROTHERS & CO.

9-11-13 N. HOWARD ST.

BALTIMORE, MARYLAND

Who will send them on receipt of price if your dealer does not have them.

Sound as a Dollar

That's the way to keep your horse, so easy to do it with Kendall's Spavin Cure. Thousands of other horsemen have done it in past 40 years.

Cured Spavin

"Two years ago, I bought a pair of fine black mares. In about six months one had a spavin. I simply used your Spavin Cure, and cured her entirely, which mystified all the horsemen. Yours truly,

M. S. Culver, Union City, Conn."

Letters like the above are received by us daily from grateful horsemen.

Kendall's Spavin Cure

is the only safe, sure cure for Spavin, Curb, Splint, Ringbone, Bony Growths and all Lameness. Saves your horses with the old reliable cure. Leaves no white hairs or scars. It is the world's best liniment for man and beast. At druggists, \$1 a Bottle; 6 for \$5. Ask your druggist for hook, "Treatise on the Horse," or write to

Dr. B. J. Kendall Co., Enosburg Falls, Vt.

Bone Spavin

No matter how old the hemish, how lame the horse, or how many doctors have tried and failed, use

Fleming's

Spavin and Ringbone Paste

Use it under our guarantee—your money refunded if it doesn't make the horse go sound. Most cases cured by a single 45-minute application—occasionally two required. Cures Bone Spavin, Ringbone and Sidebone, new and old cases alike. Not used on soft hunches. Write for

Fleming's Vest-Pocket Veterinary Adviser

Best book on blemishes, and we send it free. Read it before you treat any kind of lameness in horses. 192 pages, 69 illustrations, durably bound in leatherette.

FLEMING BROS., Chemists, 280 Union Stock Yards, Chicago, Ill.

"SAVE-THE-HORSE" SPAVIN CURE.

REG. TRADE MARK



No promise of results impossible to perform or false testimonials to mislead you. You cannot mistake the certainty of its unailing and unequalled power or the security of our guarantee.

924 Farrarut St., Pittsburg, Pa.
I used bottle of "Save-the-Horse," which I got through Mark Cross Co., New York, and our horse that was lame for a year with spavins is now sound. Kindly send two bottles by express C.O.D. as soon as you can. Very respectfully, JOHN CLANCY.

ALLEN-HILL CO., Bonds and Insurance, 115 So. 12th Street, Tacoma, Wash., June 24th, 1909.
Troy Chemical Co., Binghamton, N. Y.:—I used your "Save-the-Horse" on my horse, a valuable driving animal, for a spavin of two years' standing and the horse now shows no signs of lameness and is perfectly sound even with hard work on paved streets. It is surely a great remedy and did great work for me. Very truly yours, FRANK ALLYN, Jr.

\$5.00 a bottle, with signed guarantee or contract. Send for copy, booklet and letters from business men and trainers. Permanently cures Spavin, Thoroughpin, Ringbone (except low), Curb, Splint, Capped Hock, Windpuff, Shoe Bole, Injured Tendons and all Lameness. No scar or loss of hair. Horse works as usual. Dealers or Express Paid. Troy Chemical Co., 37 Commercial Ave., Binghamton, N. Y.

into their hands the literature that is either silly or demoralizing. The editors of The Youth's Companion believe that a periodical can be made entertaining and yet "worth while," and The Companion is conducted on that theory. And that is one reason why more than half a million American families read it. The paper is safe, but not dull. Its tales of adventure illustrate the advantages of fortitude and self-reliance. Its stories of character lay stress on the truth that right conduct is never a mistake.

Every new subscriber will find it of special advantage to send at once the \$1.75 for the new 1910 volume. Not only does he get the beautiful "Venetia" Calendar for 1910, lithographed in thirteen colors and gold but all the issues of The Companion for the remaining weeks of 1909 from the time the subscription is received.

THE YOUTH'S COMPANION. Companion Building. Boston Mass. New Subscriptions Received at this Office.

COOKING SUGGESTIONS.

"The pie that mothers made." How many of us have said that and laughed at someone's expense when the crust was heavy or the "stuffins" not cooked. The young housewife looks tearfully at the bread that won't rise or the biscuits that are heavy and wonders what the "lord of the manor" will say when he sits down to an incomplete meal.

Eating ranks first among the indispensable daily occurrences and the vital necessity for properly prepared foods is unquestionable. Everyone would rather pay the butcher than the doctor. Enough money is spent each year curing indigestion and dyspepsia to support innumerable families, and the real reason for this is the large amount of improper cooking.

A valuable little book called "The Enterprising Housekeeper" has proven of great benefit to thousands of good housewives who have had to contend with the unexpected visitor, the "finicky" appetite and the many other little things that end to make her life miserable. This book was published to sell for twenty-five cents but for four cents to cover the cost of mailing, the publishers will forward it to you. Address the Enterprise Manufacturing Company of Pa., Dept. 27, Philadelphia, Pa.

It contains two hundred recipes of the sort that prove so beneficial to the housewife and makes the practice of economy easy. Many helpful suggestions are made for teas and luncheons. Numerous illustrations of household utensils run through the book. Altogether the book is the best of its kind seen for some time and should be in every household.

Franklin Co., Va., Sept. 14, '09.

I think the Southern Planter is the most valuable paper of its kind for Virginia Farmers.

H. C. IKENBERRY.

Warranted to Give Satisfaction.

Gombault's Caustic Balsam



Has Imitators But No Competitors.

A Safe, Speedy and Positive Cure for Curb, Splint, Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a Human Remedy for Rheumatism, Sprains, Sore Throat, etc., it is invaluable. Every bottle of Caustic Balsam sold is warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars, testimonials, etc. Address

The Lawrence-Williams Co., Cleveland, O.

Moon Blindness CAN BE CURED

"VISIO" Wonderful Discovery



DISEASES OF THE EYE successfully treated with this NEW REMEDY.

AN ABSOLUTE CURE

for Moon Blindness, (Ophthalmia), Conjunctivitis and Cataract, Straying horses all suffer from diseased eyes. A trial will convince any horse owner that this remedy absolutely cures defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO," use it under our GUARANTEE; your money refunded if under directions it does not effect a cure. "YOU PAY FOR RESULTS ONLY." \$2.00 per bottle, postpaid on receipt of price.

Visio Remedy Ass'n., 1939 Wabash Ave., Chicago, Ill.

ABSORBINE



will reduce inflamed, swollen Joints, Bruises, Soft Bunches. Cure Boils, Fistula or any unhealthy sore quickly; pleasant to use; does not blister under bandage or remove the hair, and you can work the horse. \$2 per bottle at dealers or delivered. Horse Book 7 D free.

ABSORBINE, JR. for mankind, \$1.00 per bottle. Reduces Varicose Veins, Varicocele, Hydrocele, Gout, Wens, Strains, Bruises, stops Pain and Inflammation.

W. F. YOUNG, P. D. F., 109 Temple St., Springfield, Mass.

USE CRAFT'S DISTEMPER and COUGH CURE



A safe and sure preventive and positive cure for all forms of Distemper, Influenza, Pinkeye, Coughs and Colds in Horses, Sheep and Dogs, 50c and \$1.00 at Druggists or prepaid. Write for free booklet "Dr. Craft's Advice."

WELLS MEDICINE CO., LAFAYETTE, IND.

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"THE SEED MERCHANTS"

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We are headquarters for super-
ior Seeds of all kinds.

**NEW CROP GRASS AND
CLOVER SEEDS.**

Garden and Flower Seeds, Seed
Grains, Vetches, Alfalfa, Onion
Sets and all seeds of the highest
quality and germination. Flower-
ing Bulbs. Poultry Foods and
Supplies.

Write to-day for our free cata-
logue and price list.

Your correspondence solicited.

A. HORN, The Berry Man Soddy, Tennessee

R. F. D. No. 3

The Largest Berry Grower in the
South.

500 acres in Strawberries. 50,000,000
plants for sale. A new plant field
of 100 acres.

Place Your Order Now for Plants.

I want every grower to investi-
gate my new "Tennessee Favorite."
The very best berry grown for mar-
ket—size, color, flavor and shipping
qualities considered. Even in size
throughout season. I picked and
sold from one acre 4,456 quarts at
a net profit of 11 cents a quart,
making a total profit of \$491.16, in
the Spring of 1908. For the season
of 1909 I shipped 194 crates per acre
which net \$2.52 per crate. To vouch
for the truth of this statement I
refer anyone to M. Fugazzi & Co.,
Cincinnati, Ohio, who handled these
shipments.

In my thirty years' experience I
have found nothing quite its equal.
Does its best in low, strong land.
To introduce and to reach all grow-
ers, only \$4.00 per thousand. Try
them. Other varieties: Aromas,
Klondyke, Lady Thompson.

Special Prices to Nurserymen.

References: The Citizen's National
Bank, Chattanooga; Sam. A. Conner,
Sheriff of Hamilton County, M. Fu-
gazzi & Co., Cincinnati, Ohio.

ECZEMA

CAN BE CURED. My mild, soothing, guaranteed cure
does it and FREE SAMPLE proves it. STOPS THE ITCHING
and cures to stay. WRITE NOW—TODAY.

DR. CANNADAY, 354 PARK SQUARE, SEDALIA, MO.

THE SPREADER FOR ALL FARMERS.

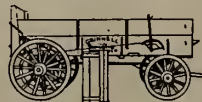
Are you thinking of buying a ma-
nure spreader? Then you must be
interested in knowing more about the
Grinnell Detachable Spreader, a com-
bined manure spreader and farm
wagon. It is made so that all the
spreader gearing can be detached in
about ten minutes' time from the
spreader box leaving a regular wagon
box trucks and all, or a complete
farm wagon for other uses on the
farm. It is a new feature, something
in fact entirely different from any-
thing else ever put out on the manure
spreading line. It is a machine that
has a place on all farms. The first
illustration here shows the spreader



all equipped with gearing attached
ready for hauling manure to the field
and spreading it as all farmers
should spread it in order to get the
best possible results from it as a
fertilizer. Then the next illustration
shows the gearing cage removed. All



the gearing except the conveyor is at-
tached to the spreader box in one
solid, compact self continued cage,
such as you see here. By simply un-
screwing a hand bolt on each side
of the spreader, this cage can be re-
moved in an instant's time. One
man can do it easily. Other wagon
box spreaders require a rope and
tackle to remove the spreader box
from the trucks, and they save you
only the trucks for other uses on the
farm. The Grinnell certainly has a
big advantage here at this point. It
is guaranteed to be just as good a
spreader as there is made. If you
need an extra farm wagon during the
husking season it will pay you to buy
the Grinnell, for you can use it as
a farm wagon at any time you need
it. Then, when you wish to spread
manure, you can attach the gearing
in a few minutes' time and have just
as good a manure spreader as there
is made. The Grinnell Detachable
is sold with or without the trucks.
You can buy it complete with trucks,
tool box and all to make a farm
wagon, like we show in the illustra-



tion here. Read the advertisement of
this machine in this issue of the
Southern Planter.

A Neat Binder for your back num-
bers can be had for 30 cents. Address
our Business Department.

SINGLE COMB RHODE ISLAND REDS.

For years I have been breeding Reds
from the finest strains in America, till
now I have a strain of fowls unsur-
passed in beauty, size, laying qualities
and hardiness. I have only the most
select fowls left for sale, so order
promptly if you want them. I have
some early hatched Pullets and Cocker-
rels of extra quality and can mate you
especially fine pairs, trios and pens.
I have some 2 and 3-year-old Hens
also, which have proven to be splendid
breeders, which I will mate up with
early hatched Cockerels. Orders book-
ed now for eggs in season at \$2 per 15
from my finest pens. Eggs carefully
packed.

ROBERT G. HUNDLEY,
Box 118, Farmville, Va.

RHODE ISLAND REDS

Inasmuch as we have determined to
discontinue breeding R. I. Red chick-
ens, except in a very small way, we,
therefore, offer our stock of Hens and
Cocks for sale at \$1 each, except a few
very fine birds. We have Hens and
Cocks worth from \$2 to \$5 each. Of
course, while moulting these birds are
not very attractive looking, but they
are bred from best stock we could
buy. Many hens very light colored.
We will have a few very fine young
birds for sale later.

Correspondence solicited.

MILNWOOD POULTRY YARDS.

Box 147, Farmville, Va.

ROSE COMB

Rhode Island Red

Eggs from prize-winning stock for
sale, 15 for \$1, or 3 sittings for \$2.50.

WHITE EMBDEN GEESE.

L. E. SMITH, Appomattox, Va.

MISS LOUISE V. SPENCER,
Blackstone, Va.

PURE BRED R. C. RHODE ISLAND
RED

STOCK FOR SALE.

Member of R. I. R. Club of America.

—WANTED—

LIVE WILD TURKEYS

and native Pheasants for breeding pur-
poses.

R. L. BLANTON, Richmond, Va.

BRAZILIAN DUCKS

Great layers, beautiful white and
large size, drakes weight 10 to 11
pounds, ducks 6 to 7 pounds. They
lay almost all winter. Price, \$5 for
trio.

Address WOODSON VENABLE,
Farmville, Va.

Glenview Orpingtons.

S. C. BUFF EXCLUSIVELY.

I am selling some extra fine layers
and breeders, 1 and 2 years old, at \$2
and \$3 each. Get in before they are
all gone.

B. S. HORNE, KESWICK, VA.

Please mention the Southern Planter.



SYSONBY GARDENS, INC.,

Petersburg, Va.

EGGS AND STOCK FOR SALE FROM OUR PRIZE PENS.

BARRED, BUFF, WHITE PLYMOUTH ROCKS

Bred from A. C. Hawkins' Royal Blue, Gardner & Dunning's and U. R. Fishell's strains.

ROSE COMB and SINGLE COMB RHODE ISLAND REDS-

De Graff's strain.

SINGLE COMB WHITE LEGHORNS—Wyckoff's Strain

We have 2,000 birds to choose from—all Southern farm-raised.

Baby Chicks and Eggs in season. Safe arrival guaranteed.

All correspondence answered promptly.

McCue's "Ringlet"

Barred Plymouth Rocks.

Successive winners in strongest competition at Richmond and Washington, D. C. When looking around for your birds for the shows or for utility purposes, you should pause and look well at my beautiful young stock, the finest that I have ever raised. My "Ringlets" are unexcelled in size, vigor, beauty and egg production. Write me. I will have birds that will please you, both in quality and price. Satisfaction guaranteed.

In writing for prices, state for what purpose birds are wanted.

LESLIE H. McCUE, Box 4,
GREENWOOD, VA.
State V.-Pres. Am. Plymouth Rock Club
For High Grade, Pure Bred



Valley Farm

Barred Rocks,

S. C. B. Leghorns.
Young stock for sale.
Guarantee satisfaction.

CHAS. C. WINE,
Mt. Sidney, Va.

SPRING BROOK POULTRY FARM

Culpeper, Va., H. H. Scott, Prop.
Breeder of Northrup strain Black Minorcas, Whitman strain of Brown Leghorns, and the best Silver-Laced Wyandottes. Six entries at Richmond and Herndon won 2 first, 1 second, 2 thirds and a club special. Eggs in season. Stock for sale.

WHITE POULTRY YARDS

Breeds prize-winning White Wyandottes, White Guineas, White Chinese Geese; Mammoth Pekin, Wild Mallard and White Muscovy Ducks; White Holland and Narragansett Turkeys. Out of thirty entries at Virginia State Fair we won 16 first, 8 second, 3 third and 3 fourth premiums.

J. F. DUNSTON, Prop., Lorraine, Va.

FIFTY PURE-BRED

S. C. BROWN LEGHORN

Hens or Pullets at \$10 per dozen, and six beautiful Cockerels at \$2 each.

MRS. A. W. DAVIS, BLANTON, VA.

Please mention the Southern Planter.

"KING CORN" EXHIBIT.

A Corn Show for Halifax County,
November Court Day,
Houston, Virginia.

There has come to me recently a great many requests to try and hold a corn show or contest sometime this fall in Halifax county. We are all aware that the corn industry in Virginia is in its infancy and anything I can do to promote the cause of growing more and better corn will be gladly done, therefore, I announce that on November Court Day, at Houston, Virginia, the farmers of the county will hold a corn exhibit, and that ten ears be shown for judging, and I will undertake to get an impartial judge from outside the county, and will also undertake to raise suitable prizes, either in cash or farm implements for eight or ten places so that it will be worth while for at least one hundred farmers to exhibit corn.

Both white and yellow corn will be eligible and judging will be by comparison and not by score card.

This is a subject that should be of as paramount importance to the business man in town as to the farmer and I would be glad to have any one advise me if they will offer money or farm implements or farm seed or anything as a prize at this contest.

The recent Fairs at Richmond and Danville indicate that good corn is being and can be raised in Halifax county.

Let us get together and have one hundred exhibitors and \$100 in money for prizes.

Next week the county papers will announce any subscription and premiums for this corn fair, and I would be glad if you would send in any subscriptions you desire to make just as soon as possible so that proper arrangements can be made.

This should be the beginning of a good business county fair.

Mt. Laurel, Va. W. R. DORIN.

S. C.

WHITE LEGHORNS

"The proof of the pudding is chewing the string." If you wish any Cockerels, Cocks, Pullets or Hens write and tell me what you want and what you wish to pay. I will ship you your order, express prepaid. If you think you have gotten your money's worth keep the birds and send me the money; if not, ship the chickens back by express collect. Let me send you my show record.

B. H. GRUNDY, JR.,
Room 822 Mutual Building,
"Chantilly Farm." Richmond, Va.

S. C. BROWN LEGHORNS Buff Cochin Bantams

A limited number of fine, pure-bred S. C. Brown Leghorn Hens and Pullets for sale at \$1 to \$1.50 each; Cockerels, well grown, \$1 to \$1.50 each. Buff Cochin Bantams, \$1.50 per pair.

MRS. R. A. BARNHART, Callaway, Va.

—MY—

S. C. WHITE LEGHORNS

Won at Virginia State Fair, 1909, third Cockerel, fourth Cock, fourth and fifth pen, and at Danville, Va., first Cockerel, first and second pullet, first pen. Stock and eggs at all times.

W. R. TODD, 426 North Sixth Street,
Richmond, Va.

Get Busy at Once
to make big money in the chicken business.
Write for Free Poultry Book.
High prices paid for early chicks.
Also learn all about the wonderful

Sure Hatch Incubator

We want you to know how good this machine is—How much stronger, better built and surer it is than any other—How simple it is—What little oil it uses—What little attention it needs—Why we build it of California Red Wood—Perfect insulation—How perfectly our regulator works—How you save all the dealer's profits and many other good points about the **Sure Hatch**. Your name and address on a postal brings our book. Write now.

The Sure Hatch Incubator Co.
Box 8
Fremont, Nebr.

EARLY CHICKS

BRING EXTRA DOLLARS

EDGEHILL POULTRY FARM.
C. H. Dickinson, Manager, Luray, Va.



I am now ready to commence shipping eggs for hatching from the following high scoring birds: Duston strain Silver Laced and White Wyandotte, Biltmore Barred and Buff Plymouth Rocks; Brown, White and Buff Leghorns (single comb), Cornish Indian Games, Black

Langshans, Buff Orpingtons, R. C. and S. C. R. I. Reds, Black Minorcas (Northrup strain). Price, \$1 for 15 for all but Leghorns, these are 75 cents for 15. Special prices by the 100 lots. I have a very choice lot of trios from many of these birds at reasonable prices. Write me before placing your order.

I am now prepared to sell some fine

PEKIN DUCKS

young or old, hatched from prize winners at Jamestown Exposition, Madison Square, Philadelphia, Virginia Fair and Poultry Show, etc.

Also some fine

WHITE WYANDOTTE

HENS AND ROOSTERS.

EVERLYN HEIGHTS FARM,

W. W. Thomas, Prop. Catlett, Va.

GROWING

Realizing the increasing demand for pure-bred fowls, we have enlarged our plant to 1,000-hen capacity. In connection with our well-known White Rocks we have White and Silver Wyandottes, S. C. White and Brown Leghorns.

Special attention will be given these fowls and orders for stock or eggs will be handled carefully. C. M. WALKER, HERNDON, VA.



Silver Laced WYANDOTTES.

A fine lot of youngsters now for sale. Order early and get first pick. All farm raised and vigorous. Special prices in quantities. Write for prices stating how many wanted. DR. H. H. LEE, Poplar Hill Poultry Farm, Lexington, Va., R.F.D. 4.

Black Langshans

WRITE TO

A. M. BLACK, Tazewell, Va.

TROIS

Fontaine Lithia Springs

Situated at South Hill, Mecklenburg county, Va. Splendid water for kidney, liver, stomach and other troubles. Shipped at once anywhere.

Write J. W. HARRIS, Proprietor, for free booklet.

Please mention the Southern Planter.

HINTS BY MAY MANTON.

The skirt that is smooth and plain over the hips and plaited below is a favorite one just now and is peculiarly well adapted to wear with fashionable coats. This one will be found available for almost every seasonable material, while also it makes an admirable model for re-making. The gored upper portion requires only a small amount of material and this often has been left over, or can be obtained in the re-cutting. In the illustration broadcloth is finished with tailor stitching. The lower portion provides comfortable flare yet the plaits are pressed flat to give long lines.



6471 Plaited Skirt with Five Gored Upper Portion, 22 to 30 waist.

The skirt consists of upper and plaited portions. The upper portion is cut in five gores and is fitted with perfect smoothness. The lower portion is gored and laid in backward turning plaits. It is seamed to the plain portion and is stitched flat above the edge.

The quantity of material required for the medium size is 7 3/4 yards 24 or 27, 4 1/4 yards 44 or 52 inches wide, the width of the skirt at lower edge is 4 1/2 yards.

The pattern 6471 is cut in sizes for a 22, 24, 26, 28 and 30 inch waist measure.

Girl's Princess Dress—6442.

Princesse dresses are just as much in vogue for the school girls as they

VICTORY
FOR OUR
White Wyandottes

At the State Fair, October 5, 1909, our White Wyandottes won half the firsts and seconds awarded to the breed and were awarded, in addition, Silver cup for Best Pen Wyandottes (old) and silver cup for Highest Scoring Pen in the show (all breeds).

Splendid March and April Cockerels and Pullets for sale. Also bargains in a limited number of Yearling Hens and Cocks. Prices from \$1.50 up. No culls sent out for breeders. All stock free from brassiness. No need to write for prices; send what you want to spend and we will send you something that will surprise you for value for the money.

STANDARD-BRED POULTRY FARMS,
Burke's Garden, Virginia.

White Wyandottes

I won at State Fair, 1909, the following prizes:
White Wyandottes—First and second cock, fourth cockerel, fourth pullet, fourth pen old, third pen young.
White Holland Turkeys—first cock, first hen.
White Muscovy Ducks—Second drake, second duck, third young drake, third young duck.
I won at Danville, Va.—young birds exhibited only—first pen, first cockerel, first and second pullet.
For stock and eggs address:
R. RANDOLPH TAYLOR,
Hickory Bottom Poultry Farm,
R. F. D. No. 2, Beaver Dam, Va.

NOVEMBER SALE
OF BERGER'S
WHITE WYANDOTTES

Overstocked in winter quarters; a rare chance at half value. May hatched Cockerels and Pullets, \$1 and \$1.50 each; yearling Hens, \$1.50 and \$2 each. Reduced prices on dozen lots. Order early and get the pick.

R. O. BERGER,
Office, 16 N. 20th St., Richmond, Va.

GERMAN BEAGLE HOUND

A fine rabbit dog. Will sell cheap. A few first-class ANGORA BUCKS.
J. L. GRAY, NORWOOD, VA.

FARMERS
Insure Your Buildings, Live Stock, Produce, Etc., in Virginia Division, FARMERS' MUTUAL BENEFIT ASSOCIATION.

Best security. Property insured \$500,000. Average cost per \$1,000 per year, \$5.00. Territory limited to counties of Chesterfield, Amelia, Powhatan, Nottoway, Dinwiddie, Prince George, Surry, Charles City, New Kent and James City. For plan and membership write to
CHARLES N. FRIEND, General Agent,
CHESTER, VA.
Organized January 9, 1899.

are for the grown-ups and this one is childish and attractive, yet smart in the extreme. There is a long unbroken panel at the front while at the sides and back the dress is made with a flounce. It includes a pretty little yoke, or chemisette, and quite novel sleeves that can be made either in three-quarter or full length. In the illustration it is made of cashmere with trimming of banding and chemisette of lace, but it would be very charming made from plaid or from shepherd's check, or indeed any childish material. For dressy occasions simple silks, light colored cashmeres and voilles are available, but for school and every day wear the materials already mentioned are preferable.



6442 Girl's Princesse Dress, 8 to 14 years.

The dress is made with the panel, side, front and back portions and the plaited flounce. These are all joined and the closing is made at the back. The yoke is arranged under the neck edges and the trimming conceals the joining. The sleeves consist of narrow puffs gathered into bands with caplige over portions.

The quantity of material required for the medium size (12 years) is 6 3/4 yards 24, 4 1/4 yards 32, 3 3/4 yards 44 inches wide, with 3-8 yard 18 inches wide for the yoke, 7 yards of banding.

The pattern 6442 is cut in sizes for girls of 8, 10, 12 and 14 years of age. These patterns will be mailed to any

THIS IS THE BOOK I WANT TO SEND YOU

You haven't **seen** my catalog—you don't **know** my Incubator or my **Plan** yet, do you?

I'm talking straight, now, to some of you Poultry Raisers who have heard me before. I got a cart-load of letters and postals last week, but a number of you who wanted my proposition didn't write. Some didn't have a postal handy; others put it off till "to-morrow" and then mislaid the paper, or forgot about it entirely. It's just human nature to put off the things that are easiest of all to do.

If I wasn't working in your interest as well as my own—if my incubator wouldn't make you fifty times more money than I make selling it—I wouldn't have the brass to keep urging and insisting on you to write me.



Regulator Detached, Lid Raised.

But I **know** that the "QUEEN" is the best incubator on the market. I have every other kind in my experimental room. I have a stack of incubator catalogs five feet high here by my desk and I know whereof I speak; **no incubator on earth has the "hatchability" or durability of the "QUEEN."**

"Well," you may say, "I don't know whether you are right or not, Wickstrum." **Of course** you don't know. But you don't know I am **wrong** either. When you consider that I outsell my closest rival two to one and that I spend only one-half as much in advertising, you must know that the "QUEEN" Incubator talks pretty strong for itself.

Worth investigating, isn't it? Worth a postal to know my Incubator and my Plan. My terms are outlandishly liberal—extended free trial—**freight paid**—factory prices—5 years' guaranty that you can fix up to suit yourself and it will suit me.

Do it right **now**—now **do** it—woman or man reader; send your name and address for my book on Incubators and Brooders. Don't put it off another day.

Just address me this way:

WICKSTRUM, THE QUEEN INCUBATOR MAN, BOX 106 LINCOLN, NEB.

MODEL INCUBATOR CO.
BUFFALO

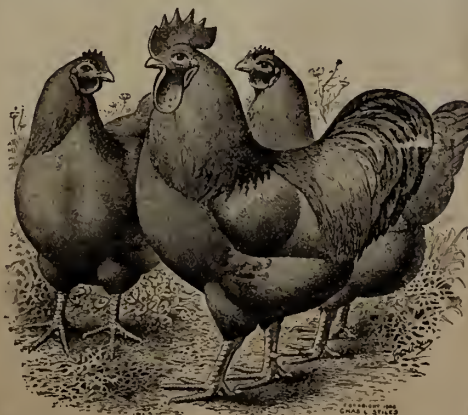
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Let us send you our free book on Practical Poultry-keeping. This Book tells you of the Opportunities in the Poultry Business, How to Choose a Location, Build Your Houses, Hatch and Raise Chicks and Ducks, etc. etc. Nine big chapters full of interest to amateurs and breeders. This book is not only a complete descriptive catalogue of the well known MODEL INCUBATORS, BROODERS, SUPPLIES and REMEDIES, but it gives information of value to every Poultry Raiser. It will help you make poultry raising more profitable.

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MODEL INCUBATORS for the past five years have proved their superiority. Investigate the principle of their construction and operation before you buy any other make at any price. MODEL BROODERS and PORTABLE HOVERS are acknowledged by experts to be the nearest to perfection. Let us send you testimonials from all parts of the country where MODEL goods are giving satisfaction under all conditions. Write for this book to-day. Don't miss it. It is free.

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The Best All-Purpose Fowls Known

EGGS FOR HATCHING

Pens No. 1—Fancy Orpingtons that win.	
15 for.....	\$ 4.00
45 for.....	9.60
90 for.....	14.40
Pens No. 2—High-Class Breeders	
15 for.....	\$ 2.00
45 for.....	4.80
90 for.....	7.20
Pens No. 3—Thoroughbred Utility Stock.	
15 for.....	\$ 1.00
45 for.....	2.40
90 for.....	3.60
Single-Comb Buff Orpington stock for sale at all times. Write for prices.	

HENRY J. and CHAS. G. SANGER.
 Proprietors of The Ethmore Fruit and S. C. Buff Orpington Farm.
 R. F. D. NO. 2, DAYTON, VA.

HOME-RAISED HORSES FOR SALE CHEAP

Black Combination Gelding; 8 years old; 15½ hands high; 1,050 pounds. Movements easy and graceful in harness and under the saddle. Reliable and safe in all harness. Compactly formed and beautiful.

Sorrel Mare; 6 years old; 15½ hands high; 950 pounds. Fine family, farm and brood mare. Compactly formed. Drives nicely. Safe for ladies and children to handle.

Black Mare; 7 years old; 15¾ hands; 1,050 pounds. Drives nicely. Works well everywhere.

Black Mare; 5 years old; 15¼ hands; 1,025 pounds. Very handsome and stylish. Good traveler. Very compact. Works everywhere.

Dark Bay Mare; 6 years old; 15¾ hands; 1,000 pounds. Gentle and stylish. Fast in harness.

Pair 2¼-Year-Old Well-Matched Black Horse Mules; 14 hands; 800 pounds each. Have been driven some.

Bay Mare Mule; 3¼ years old; 15¼ hands; 900 pounds. Thoroughly broken to all farm machinery.

W. M. WATKINS,
Saxe, Charlotte County, Va.

STOCK FOR SALE

I offer a couple of nice

PERCHERON STALLIONS

at prices that will make a good investment for some one.

ALSO

Registered Saddle Stallion

Coming 3 years old—a good one

ALSO

Registered Berkshire Hogs

including several Sows and Pigs of either sex.

You will be welcomed on the farm to inspect my offerings.

JOHN F. LEWIS, Proprietor,
Lynnwood Stock Farm,
Lynnwood, Va.
(Lewis Station on Farm.)

\$350 WILL BUY

THE FOLLOWING PURE-BRED CATTLE F. O. B. CASCADE, VA.
NONE RESERVED.

One Guernsey Cow, 8 years old.
One Guernsey Cow, 7 years old.
Two Guernsey Cows, 3 years old.
One Guernsey Cow, 2 years old.
One Guernsey Bull, 2 years old.
One Jersey Cow, 6 years old.

These cows are all with calf by thoroughbred Guernsey bull. The Jersey will be fresh about first of January. The Guernseys will be fresh in spring. Three of them are now giving milk. Will sell all or any number of the above.

THORNFIELD STOCK FARM,
Byrdville, Va.

Please mention the Southern Planter.

address by the Fashion Department of this paper on receipt of ten cents.

ANOTHER DESIRABLE CONNECTION FOR THE WM. J. OLIVER PLOW.

We are in receipt of information from The Wm. J. Oliver Manufacturing Co., at Knoxville, Tenn., manufacturers of The Wm. J. Oliver Improved Chilled Plow, advising that a contract has just been entered with Messrs. Mitchell, Lewis & Staver Co., of Portland, Oregon, for the handling of Wm. J. Oliver Plows in the States of Washington, Oregon, Idaho and Montana (west of Helena).

With Baker & Hamilton handling their plows in California, Nevada and Arizona; and Mitchell, Lewis & Staver Co. handling them in the territory above outlined, The Wm. J. Oliver Manufacturing Co. are now in position to secure at least their share of the chilled plow trade in the extreme western section of the country. And they are to be congratulated over the successful manner in which their product is being exploited, which is meeting with such good results everywhere.

A PERMANENT ROOF.

The factory of the Montross Metal Shingle Co., Camden, N. J., is working day and night to fill the increase amount of business recently secured for their Metal Shingles. A large order for one thousand squares was received from a prominent contractor and builder of Oregon, to be used on some public buildings being erected in that State. A large Philadelphia firm ordered three carloads. Numerous orders were and are being received from persons all over the country, who are erecting houses, barns and other buildings, and who recognize the superior value of Montross Metal Shingles over all other kinds of roofing.

Montross Metal Shingles are fire, lightning and storm proof. Light, attractive and inexpensive. With proper care they will last the life of the building. They are very easily laid with hammer and nails, and have a special locking device which prevents them from rattling, besides making them give much better service. No soldering is needed. They make a very attractive appearance, being embossed in conventional designs, and are lighter than slate roofs. They outlast wood shingles in every particular.

The manufacturers will be pleased to send to any one their catalogue, giving prices, testimonials, many illustrations and detailed information why it is better to lay Montross Metal Shingles than any other kind of a roofing. Write to them to-day.

PUBLIC INSPECTION INVITED.

On the main building of the Hoosier Stove Factory, at Marion, Indiana, is a large sign which reads as follows: "Public inspection invited from 8:00



JACKS AND STALLIONS

Catalonian Registered Mammoth Jacks and Jennets, Registered Trotting and Saddle Stallions. As usual, we won more premiums on our Jack stock this year than any other breeder in the bluegrass. Write for catalogue or visit the Cook Farms.

J. F. COOK & CO.,
Lexington, Ky.

SHETLAND PONIES

Choice Pony Mares and Stallions for breeding purposes, and broken ponies for children.

Can be seen at H. C. Beattie's farm, Richmond, Va., or at my farm.

C. H. NOLTING,
Trevilian, Va.

FOR SALE

STONERIDGE JACK

Contemplating a change in location, I am offering my prize winning Jack at a bargain price to a quick buyer. Three years old, sound, handsome and right in every way. A blue ribbon winner in 1906, 1907 and 1908 at the Virginia State Fair at Richmond.

Address IRVING J. COFFIN,
R. F. D. No. 5, Richmond, Va.

FINE

Thoroughbred Stallion

JOHN DYE, FOR SALE.

Bay horse, 16.2 hands high; weight 1,200 pounds; foaled 1899. Bred by A. B. Speckles, Napa Studs, San Francisco. To be seen at "Hanfield," Orange county, Va.

For particulars address MISSES CRENSHAW, Rapidan, Va.

FOR MORGAN COLTS

and Fillies and High-Bred Fox Hound Puppies. Address

Dr. JOHN D. MASSENGILL,
Blountville, Tenn.

\$1.00

3 THE BIG THREE 3

THE SOUTHERN PLANTER

Richmond, Va., 50c. a year.

Southern Fruit Grower

Chattanooga, Tenn., 50c. a year.

THE INDUSTRIOUS HEN

Knoxville, Tenn., 50c. a year.

These three monthly publications will be sent for one year for only \$1.00. Address,

SOUTHERN PLANTER,
Richmond, Va.

JERSEYS

Imported and Imported in Dam
EXCLUSIVELY "GOLD LAD"
BREEDING

Prices and Pedigrees on Application

Address,

ALLEN DALE FARMS

SHELBYVILLE, KY.

COQUETTE'S JOHN BULL

(Herd No. 63980.)

Weight about 1,405 when fat. A pure St. Lambert, whose grand sire, Canada's John Bull V., No. 20092, sire of 11 tested daughters and grandson of Mary Anne of St. Lambert, who made 26 pounds 12½ ounces butter in seven days.

His dam, Coquette of Glen Rouge, II., No. 64931, made 22 pounds butter in seven days—a pure St. Lambert. He is a sire of eight descendants, who have done better than 14 pounds butter in seven days.

Having sold my herd of Jerseys, reserving eleven of my choicest yearling heifers, I offer this bull for sale at low price, considering his breeding.

Address A. R. VENABLE, JR.,
Box 147, Farmville, Va.

THOROUGHbred

**BERKSHIRE BOARS,
JERSEY BULL CALVES,
DORSET BUCK LAMBS.**

Sire of calves, **FLYING FOX, 65456**, son of Flying Fox, who sold for \$7,500 at the Cooper sale, 1902.

All stock in best condition and guaranteed as represented.

F. T. ENGLISH, Centreville, Md.

REGISTERED

HOLSTEIN BULL

Born in May, beautifully marked. A fine individual. Dam made 13.5 pounds of butter in a week with first calf.

PRICE, \$50.

One of our many special bargains. Order at once. Satisfaction guaranteed.

J. B. LOOMIS, Richland, N. Y.

Devon Herd Established 1884. Hampshire Down Flock Established 1880.

DEVON CATTLE

**BULLS AND HEIFERS,
HAMPSHIREDOWN SHEEP,
RAMS AND EWES.**

ROBERT J. FARRER, Orange, Va.

SOME

Good Short Horn

Bull Calves and Heifers, sired by Royal, 302905, for sale. Come or write.
J. F. CAMPER, Springwood, Va.

J. A. STROUGH,

Breeder of pure bred

BELGIAN HORSES

Stallions, Mares and Colts for sale; imported and native bred.
CRIMORA, VA.

A. M. to 4:00 P. M., Hoosier Stove Co."

This means that anything in connection with the manufacture of Hoosier stoves and ranges, from the pig iron in the yard to the finished nickeling, is open for inspection. It is quite interesting to one who never saw a stove made to follow its course through this factory. You have the privilege of examining for yourself the exact materials used in a stove should you want to buy one.

If you live so far away that you cannot visit this institution and would like to see pictures of the latest designed stoves and ranges in the world, drop a postal to them and they will send free their illustrated catalogue and give you the lowest prices ever heard for high-grade stoves. Address Hoosier Stove Factory, 102 State St., Marion, Indiana.

PRODUCTION OF GOLD SILVER, COPPER, LEAD AND ZINC IN VIRGINIA IN 1908.

In 1908 the value of the gold, silver, copper, lead and zinc produced in Virginia was \$75,361, an increase of \$55,151 over that of 1907. The production of gold was 118.57 fine ounces, valued at \$2,451, a decrease of 282.36 fine ounces and of \$5,837, as compared with the corresponding figures for 1907. The production of silver was 236 fine ounces, valued at \$125, an increase in quantity of 15 fine ounces, but a decrease in value of \$21; and the production of copper was 24,775 pounds, valued at \$3,270, a decrease of 34,105 pounds and of \$8,506. No output of zinc was reported from the mines of this State for 1907, and the figures for the lead were combined with those of New Hampshire in last year's report, but in 1908 there was a production of 76,190 pounds of lead, valued at \$3,200, and of 1,410,961 pounds of spelter, valued at \$66,315. Four placers and four deep mines were producing in 1908 and the deep mines reported 12,877 tons of ore, of which 230 tons were siliceous gold ore yielding precious metal with average values of \$7.135 to the ton, and 1,896 tons was copper ores yielding \$0.05 in precious metals and 12.4 pounds of copper to the ton. Of lead ores, 800 tons yielded gold and silver valued at \$0.28 and 95.2 pounds of lead to the ton.

"The National Association of Live Stock Breeders and Raisers" will hold their Annual Convention at the Union Stock Yards, Chicago, on the night of December 1, 1909, during the great International Live Stock Exposition. Many important subjects will be discussed and plans for 1910 will be formulated. This Association is organized solely for Mutual Benefit and every Live Stock Breeder and Raiser in the United States and Canada is requested to join in the Association, for which there is absolutely no charges of any kind. Address C. M. Fleischer, Secretary, 99 Randolph St., Chicago, Ill.

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I am offering some excellent hogs, both English and American strains, at very reasonable prices.

Young Brood Sows, Boars ready for service, and Weanling Pigs, 8 to 10 weeks old.

S. C. Brown Leghorns and Mammoth Bronze Turkeys.

Inquiries promptly answered.

W. A. WILLEROY,
Brett, King William County, Va.

HIGH-CLASS BERKSHIRES

State Fair Winners

Virginia's Premier Rival, 117,983, the undefeated boar, at the head of my herd. He won first prize Virginia State Fair, 1908, same fair 1909, first prize junior yearling class, also champion Berkshire boar any age. He was the admiration of all breeders. I entered him and four of his get, under six months—won five first prizes, two seconds and championship.

One extra fine young boar suitable to head any herd. April and May gilts and September pigs for sale. Place your order with me and get stock according to representation.

E. F. SOMMERS, SOMERSET, VA.

MONTROSE FARM,

Louisa County, Va.

BREEDER OF REGISTERED

DUROC JERSEY HOGS

FINEST STRAIN.

Beautiful pigs for sale, both sexes, at farmers' prices.

Express Office: Trevillian, Va.

JOHN F. T. ANDERSON,

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PURE-BRED

BERKSHIRES POLAND-CHINAS TAMWORTHS

Pigs from Registered Stock for sale. Several Berkshire and Tamworth Boars ready for service.

J. C. GRAVES, Barboursville, Va.

M. J. Langenderfer sold \$1350.00 worth of thoroughbred pigs from five of our O. I. C. 1-2 ton Sows last year.

Positively only perfect stock shipped by us. See our guarantee against Cholera. Write today for illustrated circular and price list showing some of our famous herd.



The H. S. Nelson Co., 907 Caxton Bldg., Cleveland, O.

CHESTER WHITES

Best hog on earth. Fall pigs now coming. Please let us have your orders. Satisfaction guaranteed.

S. M. WISECARVER, Rustburg, Va.



Ft. Lewis Stock Farm

THE BEST PLACE FOR BLOOD AND REGISTERED
BERKSHIRES

White Leghorn, all breeds of Plymouth Rock, Black Minorca and Rhode Island Red Fowls. Eggs from these pure-blooded birds for sale.

DR. W. L. NOLEN, PROPRIETOR, SALEM, VA.



LARGE YORKSHIRES

Herd-Headers and Dams of Herd Imported.

Boar and Sow Pigs by massive imported boar out of big sows that raise 10 to 12 pigs to a litter. These are fashionable Yorkshires, but not as high priced as fashionable Berkshires. We kept four fashionable Berkshires for a year, but they were too well bred to raise a pig. We got 48 pigs from four Yorkshire sows, same time, same care. We gave up Berkshires. Our Yorkshires come so fast and thick we are almost giving them away. Write for figures.

OVERBROOK FARM,

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Registered

POLAND CHINAS



Sunshine and Perfection blood. Choice lot of pigs now ready for shipment. Three months pigs, \$6. Choice Gilts and Service Boars.

from \$12.50 to \$15.

All stock in fine condition, strong and healthy.

F. W. HOUSTON, Lexington, Va.
Clifton Stock Farm.

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From Registered Stock of Fine Breeding.

Knowle of Cook Farm 5087 at head of herd. Sire 2nd prize boar at Royal Show, Eng., 1907. Dam 1st prize gilt at same show, 1907.

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The large, lengthy, growthy kind. A fine lot of pigs, bred from first-class sows, ready for April delivery; prices right. B. P. Rock eggs \$1 for 15.

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Reg. P. Chinas, Berkshires, C. Whites. Large strains. All ages, mated, not akin. Bred Sows, Service Boars, Guernsey Calves, Collie and Beagle Pups and poultry. Write for prices and circular.

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Walnut Hills Herd.

Twenty-five Registered Angus females and two bulls for sale.

J. P. THOMPSON, Orange, Va.

Aberdeen-Angus Cattle

Some fine registered Bull and Heifer Calves at farmers' prices.

WM. M. WATKINS,
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THE GOOD OLD HORSE REMEDY.

Horse flesh is heir to a good many ailments. Many of them are trivial if treated promptly. Most of them can be cured without the aid of a veterinary surgeon if only the owner has some little knowledge of horses and the remedy is at hand. There will be cuts and sprains and lameness an occasional shoe boil or a curb or splint will develop; there will be swellings, abnormal bony growths, etc. These come unexpectedly and surely often without any apparent cause. The sensible horse owner recognizes the fact that something is liable to happen at any time and prepares for the emergency.

The appearance of Kendall's Spavin Cure in our advertising columns so often is intended to suggest a line of action.

Kendall's Spavin Cure is one of the best all round horse remedies that was ever compounded. The fact that it is so old a remedy is greatly in its favor. It is proof of its efficiency. All old time horse owners know Kendall's Spavin Cure and most of them use it. They would not have continued to use it for upwards of forty years if it had not proven to its legion of users that it does cure the things for which it is recommended, namely, spavins, ringbones, curbs, splints, wire cuts, swellings, sprains, lameness, etc. the ailments that are always and everywhere common to horses.

Ask your druggist for Kendall's "Treatise on the Horse" or write to Dr. B. J. Kendall, Enosburg Falls, Vt.

YOU CAN'T ARGUE

about the merits of a remedy when it proves that it has effected a larger percentage of cures than all other remedies combined—when it proves that it has a larger sale than any other remedy on the market. Both these conditions are true of Visio, the wonderful new discovery, and we can prove it. We are so sure that Visio the new eye remedy for horses, will cure all diseases of the eye, that we sell it under an iron-clad guarantee to cure the horse, or we will cheerfully refund your money. No further argument should be necessary to get you to send \$2.00 for a bottle of Visio, if your horse is suffering from any kind of disease of the eye, Visio will and positively must cure him, and all we ask is a chance to prove it. Better write for a bottle to-day. Never allow eye trouble to run too long. Visio Remedy Association, 1933 Wabash Ave., Chicago.

WOODLAND FARM

DORSET SHEEP

No Ewes for sale, and only a few Rams left. We have three or four flock-headers among these, which we offer at reasonable prices. Better order before they are all gone.

CHAS. B. WING,

Successor to J. E. Wing & Bros.,
Mechanicsburg, Ohio.

NOTICE

I have sold all my DORSET LAMBS for this season I am ready now to book orders for my next crop of lambs which I expect better than ever. My prices are right.

Address H. H. ARBUCKLE,
Edgewood Stock Farm,
Maxwelton, W. Va.

DORSET SHEEP

I have to offer, this season, some very fine Dorset Rams; prices in reach of all.

SAMUEL T. HENINGER,
Burke's Garden, Va.

BROOKDALE FARM,

Pocahontas County, West Virginia.
Red Polled Cattle.

of best breeding. The cattle that suit the Virginia farmer best. Write for photographs and records.

DORSET SHEEP.

A Prime Yearling Ram and a Few Choice Ewes.

J. D. ARBUCKLE, M. D., Cass, W. Va.

PURE BRED

Hereford Bull

Calves, weighing about 600 pounds for sale. Price \$50 each.

J. L. PITTS, Scottsville, Va.

That the movement "back to the soil" is increasing steadily in volume is strongly indicated in statistics covering transactions in country real estate during the past few months. All through the Summer the market has been very active but during the last two months there has been an unprecedented rush of buyers and indications are that by the end of the year all records will have been left far behind. During the months of August and September, ordinarily a dull period in transactions in farm properties, the E. A. Strout Co., of New York, Boston and Philadelphia, reports that it sold 170 farms in the Eastern States. This is a new high record for two consecutive months even for this corporation and indicates clearly the tremendous activity in the country real estate market which prevails at the present time.

Please mention the Southern Planter.

WANT ADS.

Rates 2 cents per word. Cash with order. Initials and figures count as one word; 25 cents minimum charge.

POULTRY, ETC.

S. C. RHODE ISLAND REDS—I offer for sale for immediate or early fall delivery trios that will make wonderful breeders. I can mate up cockerel either with splendid hens or with promising pullets. I believe I have the finest fancy-utility strain in existence, and have in my yards today the finest lot of fowls that I have ever owned. I have furnished winners for most of the big Southern shows, and I have a hen now laying that has laid over 900 eggs. Trios, price \$5 to \$10. Dr. J. H. C. Winston, Hampden-Sidney, Va.

E. B. THOMPSON'S FAMOUS RING-LETS soar the highest at America's Imperial Show, Madison Square Garden, New York. I have about one hundred of this celebrated stock for sale. Their qualities cannot be excelled for layers, plumage, health and general appearance. Have three especially fine Yearling Roosters. Satisfaction guaranteed. Terms on application. S. G. Roadcap, Lock Box 77, Waynesboro, Augusta County, Va.

STANDARD-BRED POULTRY FROM \$2 per head up. White Plymouth Rocks, Silver, Golden, Columbian, Black and White Wyandottes, R. I. Reds, Pit Games, Indian Runner, Aylesbury, Blue Swedish, Mallard, White and Colored Muscovy Ducks, Toulouse and Brown Chinese Geese. All bred from prize winning stock. Dennis Bros. & Co., Binns Hall, Va.

MY BARRED PLYMOUTH ROCKS, showing grand vigor and breeding according to latest requirements of the American Standard, were easy winners at State Fair (see premium list). Excellent results from incubator eggs shipped any distance. Prices low on small trial order. Only strong stock pays you know. George H. Morris, Ashland, Va.

BARGAINS IN PURE-BRED UTILITY Poultry, \$1 each. White Plymouth Rocks, White, Silver and Columbian Wyandottes, R. I. Reds, White and Brown Leghorns, Pexin, Indian Runner, Blue Swedish and Muscovy Ducks. Burlington Farm, Charles City, Va.

TO REDUCE STOCK WILL SELL FOR the next thirty days, 50 Cockerels, February and March hatch; S. C. Buff, Brown and White Leghorns; R. I. Reds and Black Minorcas; 50 Cockerels, Buff and Barred Plymouth Rocks, R. C. R. I. Reds and Black Minorcas, \$1 to \$1.50 each. Belmont Poultry Farm, Luray, Va.

MAMMOTH BRONZE, WHITE HOLLAND Turkeys. White Wyandotte, White Leghorn, R. I. Red Poultry. Choice stock bred from winners. Prices right, satisfaction guaranteed. Circular free. Fairview Farm, Shrewsbury, Pa.

GRAND TOULOUSE GEESE FOR sale, also White Wyandotte and Barred Plymouth Rock Cockerels. A bargain for money. "Blue Hill Poultry Yards," Somerset, Va.

R. I. RED COCKERELS FOR SALE. First prize winners at county fair. R. M. Payne, Crofton, Va.

WHITE WYANDOTTES FOR SALE—Don't be satisfied with anything but the best. Stock direct from Arthur G. Dustin. Must sell a few yearling Hens and six months' Cockerels to make room. Prices \$1 to \$3. Mrs. W. W. Sproul, Middlebrook, Augusta county, Va.

CORRESPONDENCE SOLICITED concerning young stock from finest pen of Crystal White Orpingtons in the world. Eggs for present late season at half price, \$2.50 per 15. Mrs. L. C. Catlett, Gloucester, Va.

INDIAN RUNNER DUCKS AND Drakes, Toulouse Geese, April hatched White Holland Turkeys; very fine. Barred Plymouth Rock Hens and Pullets for sale. Orange and lemon trees, fruit on them. Write for prices. Ingraham Poultry Yard, Somerset, Orange County, Va.

FOR SALE FROM PURE-BRED stock, April hatched, White Holland Turkeys; very fine Toulouse Geese, \$2 a piece; Indian Runner Ducks; a few Barred Rock Hens, \$1 a piece. Mrs. M. F. Gooch, Somerset, Orange county, Va.

ROCKLAND POULTRY FARM—Beautifully marked Barred Plymouth Rock Cockerels; weight four to five pounds, \$1 each; one trio Black and White Muscovy Ducks, \$3. Order before all go. Mrs. Keese Brook- ing, Somerset, Va.

HENS, HENS, CHEAP TO MAKE room; extra fine Barred Rock and White Wyandotte, also beauties in Cockerels. A few White Orpington Cockerels. Miss Clara Smith, Landor Poultry Yards, Crofton, Va.

TWENTY S. C. R. I. RED YEAR-OLD Hens, two Roosters, three White Guineas, two Pekin Ducks, \$25; five April hatched Pullets, one Rooster, \$5. Mrs. William Birch, New Glasgow, Va.

S. C. W. LEGHORNS—FOUR FIRST premiums at Roanoke Fair. Pullets from \$1 up; Cockerels from \$2 up. W. H. Densmore, R. F. D. No. 3, Roanoke, Va.

GAMES! GAMES! GAMES! PURE- bred Pit Games. Virginia State Fair winners. A limited number of Cockerels for sale. Peninsula Poultry Yards, Williamsburg, Va.

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STANDARD-BRED BUFF ROCKS. Bred for size and eggs. Three Pullets and Cockerel, \$3.50. Satisfaction guaranteed. John E. Morris, Orange, Va.

FARM RAISED BARRED PLYMOUTH Rock and White Wyandotte Cockerels; also young Toulouse Ganders. May hatched; very fine. E. F. Sommers, Somerset, Va.

BABY CHICKS—8 CENTS EACH—Shipped safely anywhere. Culver Poultry Farm, 948 Burnham, Benson, Neb.

ORDER YOUR MUSCOVY DUCKS now. The ducks with habits of wild ducks and equally as hardy; \$3 per pair. W. B. Coleman, Mannboro, Va.

O. O. HARRISON, MT. ULLA, N. C. Breeder of Good White Wyandottes

S. C. B. LEGHORN, APRIL AND MAY hatched, Pullets and Cockerels for sale. Bracy's strain. Also Single Comb White Rocks. B. G. Bass, Rice, Va.

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PURE-BRED BUFF ORPINGTON Cockerels for sale, \$1 each. Mrs. Aaron Seay, Carter's Bridge, Albemarle county, Va.

MAMMOTH BRONZE TURKEYS—pure bred. Surplus stock at bargain prices until Thanksgiving. Sunnyside Farm, Jonesville, Va.

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EXCELLENT VALUES IN BEAUTI- fully marked Single Comb Rhode Island Red Cockerels at \$1 each. Mrs. E. W. Brooking, Somerset, Va.

SINGLE COMB REDS OF WILMONT, red to the skin; beauties; \$1 to \$1.50. Satisfaction guaranteed. Mrs. F. E. Williams, Charlottesville, Va.

BARGAIN SALE—EIGHT S. C. WHITE Orpington Hens and one Cock, prize winning strain. First \$10 gets them. E. C. Coble, Mt. Airy, N. C.

WANTED—2,000 MARCH AND APRIL hatched White Rock Pullets. Address, with description and price, W. P. Laird, Warm Springs, Va.

FOR SALE—PURE-BRED RHODE Island Red Cockerels, \$1 each. Mrs. Joe Mathews, Lahore, Va.

ROSE COMB SILVER LACED Wyandottes for sale. Mrs. Fannie Carter, Rice, Va.

S. C. BROWN LEGHORN PULLETS, Hens and Cockerels for sale. Mrs. C. M. Bass, Rice, Va.

CHEAP—BRONZE TURKEYS AND Geese. Order at once. L. J. Winn, Blanton, Va.

LIVE STOCK.

FOR SALE—TEN ANGUS COWS, 8 Heifers, choice breeding, mostly Prince Ito blood; 5 Hackney brood mares, 2 Yearling Fillies, 5 trotting-bred Mares, 1 Yearling 1 2-year and 2 3-year Fillies, all high class racing blood and should go fast; 2 Geldings, 1 and 2 years; 1 Clydesdale Stallion, 2 years; 1 trotting bred Sallion, Don Piza, 27060, one of the best sons of the great Gambetta Wilkes. Myer & Son, Bridgeville, Del.

FOR SALE—A FINE JACK; BLACK, white points, 15 hands, 4 years, good bone, fine style and action; fine performer on either mares or jennetts; also three fine Jennetts bred to above; all above stock registered. They are the finest animals ever brought to Virginia. Unless you are looking for high-class goods save your postage. Might consider part pay in cattle. A. H. Motteler, Providence Forge, Va.

A VERY PRETTY AND GENTLE Lady's Saddler and Driver; "Peggy Primrose," rich dapple cream, 6 years old. Perfectly sound. No bad tricks. A great pet and for such a pretty and likeable mare will be sold at a bargain. Trial cheerfully allowed. References. R. I. Farrer, Orange, Va.

\$25 FOR PURE-BRED BULL CALF out of registered Holstein cow; richly bred; beautifully marked. W. B. Lewis, Route 1, Blackstone, Va.

LIVE STOCK (Continued).

THE VIRGINIA POLYTECHNIC INSTITUTE has for sale pure-bred young males of the following breeds: Cattle—Holsteins, Jerseys, Shorthorns, Aberdeen-Angus and Herefords. Swine—Young animals of both sexes of the following breeds: Berkshires, Duroc-Jerseys and large Yorkshire. Sheep—Dorset Rams and one Shropshire Ram Lamb. Also a few Black Minorca and Brown Leghorn Cockerels. These animals are excellent individuals in thrifty condition and will be sold at very reasonable prices to Virginia farmers. For dairy breeds address Prof. Brainerd; for all other breeds, Dr. Mayo, Virginia Polytechnic Institute, Blacksburg, Va.

FOR SALE—IMPORTED GERMAN Coach Stallion, 4 years old, 16 hands high, weighs 1,350 lbs., good flat bone, fine style and action, plenty of speed, a perfect eye and a noble disposition. Have both German and American certificates of registration. A bargain for some one interested in breeding good serviceable horses. Address, T. E. Roberts, Chase City, Va.

FOR SALE—SADDLE STALLION, 5 years old; blood bay; extremely handsome, stylish and spirited; untrained but almost perfect in all saddle gaits; saddle bred on both sides and of distinguished ancestry; disposition gentle and tractable; thoroughly broken to ride and drive. Address F. G. D., R. F. D. No. 1, Scottsville, Va.

PURE-BRED JERSEYS AND POLLED Durhams (or Hornless Shorthorns). I have two fine 2 to 3-months-old Jersey Bull Calves by a famous Kentucky bred bull. Price \$35 each or \$60 for both. Polled Durham Bull and Heifer Calves, yearlings and older stock. Write for prices to James M. Hobbs, 1521 Mount Royal Avenue, Baltimore, Md. Note—See my one-third page ad of Sheep, Hogs and Poultry elsewhere in this issue.

BERKSHIRE PIGS—BILTMORE strain, good individuals, of either sex. Ten fine Jersey Heifers and Plymouth Rock Cockerels. Everything guaranteed as represented or money refunded. R. S. Young, Only, Va.

FOR SALE—SHORT HORN BULL, four years old, gentle, weighs 1,500 pounds. Price, \$75. Also one Short Horn Bull Calf, three months old, \$25. M. Szuchy, Amelia, Va.

FOR SALE OR EXCHANGE FOR mules or heavy farm horses, 2 to 4 years old, 2 bull calves, 1 herd bull, Prince Barbara, 10 cows, 8 heifers. Myer & Son, Bridgeville, Del.

FOR SALE—REGISTERED POLLED Herefords, Wilton, Anxiety and Howe strains. Prices moderate. Apply Samuel T. Earle, Jr., 1431 Linden Ave., Baltimore, Md.

PONIES—SEVERAL SHETLAND and others for children, well broken. One pair matched roan mares, 5 years, kind; single and double. J. M. Cunningham, Brandy Station, Va.

FOR SALE—ONE PAIR PERCHERON Horse Colts, two years old, perfectly sound. By imported Maximum, both dams pure-bred. A bargain at \$350. Elkton Stock Farm, Forest Depot, Va.

FOR SALE—DUROC-JERSEYS OF high quality. Bred Sows, September Pigs and Boars ready for service. R. W. Watson, Petersburg, Va.

WANTED—A YOUNG MAMMOTH Jack that can be sold under a guarantee to serve mares. W. A. Connell, Inez, N. C.

REMEMBER MY YORKSHIRE HOGS and Red Poll Cattle are of the best breeding. Young stock always for sale at attractive prices. W. E. Stickley, Strasburg, Va.

FOR SALE—ONE THREE-YEAR-OLD Black Standard-Bred Trotting Stock Mare. Address T. C. Morton, Rice Depot, Va.

LARGE YORKSHIRES—SEE OUR October ad. Stock referred to must be sold at once or prepared for butcher. What will you offer per pound for what you need? Stock is only in breeding condition now. Meadow Grove Farm, Ivy Depot, Va.

FOR SALE—ONE REGISTERED Jersey Bull, one Cow coming fresh, four Yearling Heifers. All first-class stock. "M. O. A.," Southern Planter.

FOR SALE—FRENCH COACH Stallion, "Dreux," 4237; dark brown; weight, 1,200 pounds; six years; perfect and cheap. Thomas L. Hill, Millen, Ga.

FOR SALE—SHORT HORN HEIFER Calf, roan, entitled to registry, milking strain, six months old, \$35. Heartlands Stock Farm, Warrenton, Va.

DOGS, PET STOCK, ETC.

CANADA GEESE, BLACK SWAN, Wild Ducks, Decoys, etc. Why not raise your own decoys and ornamental water fowl? Five hundred Canada Geese, young pairs \$6, mated breeding pairs \$10; Wild Black Mallard Ducks, breeders, \$3 pair, ten pairs \$25; Black Australian Swan, handsome, hardy, prolific, often two to three broods a year, in great demand for parks, country estates, etc., adults \$40, young pairs \$30; English Decoy Ducks, best callers known for wild duck shooting, \$2.50 pair; Black Brant, \$10 pair; White Muscovy Ducks, \$2.25 pair. Buy wild fowl direct from Whelton's Wild Water Fowl Farms, Chincoteague Island, Va.

WANTED—TO BUY ALL KINDS Wild Birds and Animals, particularly Tame Deer, Wild Turkeys, White Squirrels, Peafowl, Otters, Red Foxes Gray Squirrels, Partridges, Pheasants, Beaver. State price when writing. Dr. Cecil French, Naturalist, Washington, D. C.

BY PAYING FREIGHT CHARGE AND \$2 pound tax, we will ship you a good house, watch or hunting dog. State kind of dog you want. Animal Relief Society, 2115 14th St., N. W., Washington, D. C.

DACHSHUND PUPS—PURE-BRED stock, imported from Germany in 1906, for sale. Capt. F. J. von Schwerdtner, Annapolis, Md.

FOX, DEER, COON AND OPOSSUM hounds and pups, \$3.50 to \$15 each. For bargains write me. E. F. Wilmouth, Shelbyville, Ky.

BEAGLES—PUPS AND WELL-TRAINED Dogs for sale. Best strain. James R. Parker, Cypress Chapel, Va.

CHAMPION BRED COLLIE and grown females for sale. Shadybrook Farm, Route 2, Roanoke, Va.

WANTED—LIVE WILD TURKEYS and Pheasants for breeding purposes. R. L. Blanton, Richmond, Va.

REAL ESTATE.

WANTED TO EXCHANGE CITY LOTS in Gulfport, Miss., for Shetland ponies, collies, blood hounds, or fancy poultry. J. D. Stodghill, Shelbyville, Ky.

TIRED OF FARMING? BOYS LEFT home? Why not exchange your farm for city income property in best city in United States? Frequently good trades can be made with people anxious to live in country. My business is to bring such people together and help them deal on basis fair to both. Send full description if you wish my services. No charge unless deal made; 33 years business record back of me. Clarence Pettit, Real Estate Exchange Specialist, Pittsburg, Pa.

FINE STOCK FARM FOR SALE containing 194 acres, 60 fine bottom land; located one mile from station on Southern Railroad in Halifax county, Virginia, and five miles from a first-class market for everything, including wood. Plenty of wood can be sold delivered at the station to pay for farm. A four-room dwelling on public road. A living stream runs through tract. Price, \$3,000, one-third cash, balance in equal installments on one to ten years, interest added. E. W. Armistead, Danville, Va.

BEAUTIFUL HOME IN CUBA; GOOD 8-room tile roofed house, 25 acres good land, quantity of fruit trees, never failing well with wind mill; one and one-half miles from city of twenty thousand; fine location, high, dry and healthy; good for tobacco, oranges or vegetables. Price, \$2,000. Address S. T. Holmes, Pinar del Rio, Cuba.

FOR SALE—A FINE TRACT OF land containing 137½ acres, two miles from Providence Forge. This land lies well, contains valuable timber; after being removed will be No. 1 land for agricultural purposes. Might consider part pay in cattle. A. H. Motteler, Providence Forge, Va.

FOR SALE—400 ACRES OF FINE land in Loudoun county, Virginia; well fenced and watered; 10-room stone house; water in house; observatory; open fireplaces as well as furnace; tenant house; also large dwelling house on place. Can be divided or sell as entirety. Southern Poultry Supply Company, Washington, D. C.

FINE ESTATE FOR SALE—THREE sets of handsome buildings; residences contain 10, 9 and 8 rooms; five other settlements. Beautiful situation, good grazing and farming land, 1,200 acres. Will divide. Price \$25; close to town. A. H. Clement, Appomattox, Va.

FARM FOR SALE—FULLWOOD Ranch, 100 acres and improvements; good roads, fruit, etc.; excellent market garden and dairy. Near Monterey, Tenn.; population, three thousand; good schools, fine climate, healthy. Price, \$4,000. For full particulars write James J. Fleming, Monterey, Tenn.

WANTED TO RENT—CAN BUY—A strictly first-class stock and grain farm, from two to five or six hundred acres. Good farm, roads and improvements. Am a Virginian by birth but have always formed in Indiana. You know what that means. Camden Hogg, Pt. Pleasant, W. Va.

WANTED—FARMS AND BUSINESSES Don't pay commissions. We find you direct buyer. Write, describing property, naming lowest price. We help buyers locate desirable properties free. American Investment Association, Minneapolis, Minn.

FARMS AND TIMBER LANDS AT lowest prices on easy terms; great, est bargains in Virginia. Write for catalogue. Address J. R. Elam, Charlottesville, Va.

REAL ESTATE (Continued).

WISH TO GET IN CORRESPONDENCE with owner of farm of 100 to 150 acres, within 20 to 30 miles of Washington, D. C., 1 to 1½ miles railroad on good turnpike; dwelling 8 to 10 rooms in good repair; good outbuildings; plenty of fruit; plenty of good water; wood for domestic purposes; land naturally good in fair condition; close to churches and schools. Wish to lease for term of years with privilege of buying. Will pay semi-annual cash rental. Keep up buildings as to paint and repairs at my own expense, except that essential to age. Will improve farm and keep it in good agricultural shape. If farm meets my requirements am willing to pay what would be considered a good price for rent. Wish lease for 5 or 10 years. Will pay taxes and insurance. Will deal only with owner direct. "Cash," care Southern Planter.

FARMS FOR SALE IN NORTH CAROLINA.—Get my large list before they are leased. State location, size and about price of farm wanted. R. E. Prince, Raleigh, N. C.

CLENDENING AND THOMAS, REAL Estate Agents, Round Hill, Loudoun county, Va. Large list of farms and town property in the famous Valley, ranging in price from \$10 per acre and upwards.

POSITIONS HELP.

WANTED—POSITION AS WORKING foreman on a medium sized farm (about 300) by a married man with nearly grown boys. Man is sober, energetic, good references, understands growing of all crops, improving soil with leguminous crops, handling labor, breeding, feeding and caring for stock, the care and use of all farm machinery. Will work furnished farm for a share. "Farmer," care Southern Planter.

WANTED—A WORKING FOREMAN for a place of fifty acres about four miles from Richmond, where I expect to build shortly; must be intelligent and willing to turn a hand to anything; none others need apply; will furnish house. State wage expected and previous experience. Address "X. Y. Z.," Southern Planter.

WANTED—MARRIED MAN, GERMAN or Irishman, to farm. Wife to cook for 1910. Apply Mrs. G. W. Marrow, Townsville, N. C.

WANTED—GARDENER AND CHICKEN man, single, who will assist around the house. Address T. B. Scott, Burkeville, Va.

FARMER, THOROUGHLY EXPERIENCED in dairy work and farming in up-to-date principles, desires position as working farmer. Accustomed to modern machinery, including steam and gasoline engines. Middle aged, single and sober. Address Box 693, Mt. Holly, N. J.

WANTED—AN EXPERIENCED farmer and stockman (with some knowledge of orchard work preferred) to come January first, next, for a 650-acre farm, near Staunton, Va. Give age, size family, qualifications, pay expected. Apply by letter to B. M. S., care Southern Planter.

WANTED—MANAGER TO TAKE full charge gentleman's place near Orange, Va., C. and O. Railway. Wife must be good butter maker. State when you can come, salary expected, references. Address J. Dunlevy, care Southern Planter.

WANTED—AT ONCE, SOBER, healthy, young married white man, good farmer, horseman and stockman to care for stock and work on farm. Apply, with references, "C," Brems Bluff Postoffice, Va.

WANTED—MAN TO WORK ON FARM. Do not apply unless you are temperate, honest, industrious and capable. State what you can and will do, giving full particulars. Meadow Grove Farm, Ivy Depot, Va.

WANTED—GOOD, RELIABLE MAN as working foreman on stock farm. No night work. Give references and wages desired. W. B. Gates, Rice Depot, Prince Edward county, Va.

WANTED—A PARTNER WITH \$200 to \$500 to join me in the cattle, sheep and poultry business in West Virginia. I have the farm, 10,000 acres of range and a part of the stock and the first year's feed. O. D. Hill, Kandalia, W. Va.

POSITION WANTED AS MANAGER of poultry farm; will accept reasonable proposition; 15 years experience; good references. "Richard," care Southern Planter.

WANTED—TENANT FOR JAMES river farm, 273 acres, 140 acres arable. Convenient to wharf, churches and schools. Apply J. M. Bell, Shirley, Va.

WANTED—POSITION AS FOREMAN and manager on a farm. Can give references as being sober, honest, straight and reliable and with the experience. R., Vashti, Va.

IMPLEMENTS, MACHINERY, ETC.

FOR SALE—100-EGG MANDY LEE Incubator. Late model and perfect condition; \$9. E. L. Dupuy, Blackstone, Va.

FOR SALE—ONE SUCCESS MANURE Spreader; been used three times; good as new. Price \$80. J. T. Rogers & Son, Nassawadox, Va.

WANTED—STUMP PULLER. STATE price and make. T. G. Figgat, Roanoke, Va.


WANTED—GOOD SECOND-HAND Planer, Matcher and Mauler; small size. C. C. Cocke, Crofton, Va.

MISCELLANEOUS.

A HANDSOME, COMFORTABLE, SEA Worthy Cabin Launch, 30x9 feet, 32-inch draught, cedar hull, copper fastened, oak keel and timbers, paneled oak cabin, 17 windows, toilet room, ice tank, stove; carry 25 passengers, berths for four, Globe engine 1½ years old, 50-gallon tank, lights, anchors, cushions, life preservers. Fully equipped for hunting or cruising. A sacrifice at half cost, \$675. Delivered anywhere on coast. J. W. Whealton, Chincoteague, Va.

RARE OPPORTUNITY FOR THOSE of limited means to enjoy the free advantages of Washington. Short-hand and typewriting included in home expenses, and positions found for students. To live in Washington is a liberal education. Address Mrs. Novella Routt Reynolds, 1812 Belmont Road, Washington D. C.

DISCOVERED—A NEW SYSTEM OF concrete block making. Build your own homes. Use the new system made on the Oregon Concrete Block Machine. A dry inside wall guaranteed. Complete outfits from \$50 up. Send for catalogue. Oregon Concrete Block Machine Co., 3235 and 3237 N. Broadway, St. Louis, Mo.

RICHMOND & SON, RICHMOND, VA.
 Lumber, Laths, Shingles, Sash, Blinds, Doors, Frames, Mouldings, Asphalt Roofing. Yards and buildings covering ten acres.

FOR SALE—PAN-A-RAMA CAMERA, two Winchester Repeating Rifles, Yellow Potato Onions and Sets. Would exchange for early hatched pullets. David E. Peters, Princess Anne, Md.

CULTIVATED GINSENG—SEED FOR sale. Directions given for planting. R. F. Cecll, Altavista, Va.

LOOK! LISTEN!

And Let Us Tell You Something About These Newly Invented

SELF-SHARPENING SHEARS

They are eight inches long and made of high-grade material by special Forroid process. Finely tempered and ground, insuring a sharp, clear-cutting edge that will cut clean the entire length to the point, and will last as long as the shears themselves. And notice the new design in the thumb rest, by which the discomfort usually occasioned by the constant use of a pair of shears is entirely avoided. But the best of all is that they sharpen themselves, as their name implies, simply by tightening the tension spring. They are beautifully designed, fine finish, heavily nickel-plated and highly polished. Any woman who once uses these shears will never part with them.

To secure some more names to send our new catalogue of HOUSEHOLD SPECIALTIES, we will, for a limited time, send, prepaid to any address in the United States, a pair of these wonderful SELF-SHARPENING SHEARS for fifty cents (50 cents) in postage or coin.

Better order now, as this offer may not appear again.



SOUTHERN SUPPLY HOUSE
 215 Willoughby Ave., Norfolk, Va.

Hygeia Herd Pure-Bred Holstein-Friesians

It is no more expensive to maintain a good bull at the head of your herd than a poor one, and the former is certainly worth many times his cost. Therefore, write for pedigree and price on one of the richly bred bulls which this herd now offers for sale.

Address: **W. F. Carter, Jr., Agent.** Crozet, Albemarle County, Virginia. **W. Fitzhugh Carter, M. D., Owner.**

The breed holds the milk and butter records of the world; the herd embraces some of its best families.

GOOD HOUSEKEEPING.

It was my good fortune last summer to come in touch with a French gentleman, who understood and practiced the fine art of cookery as only the people of his nation do, and it was also my good fortune to enjoy some of the delicious dishes he prepared. Before leaving I begged that he would give me some of his favorite recipes. This he has done, and I am giving them to the readers of The Planter just as he gave them to me, assuring them that, strictly followed, they bring about the most delightful results. You will notice that thyme and parsley play a conspicuous part in many of these recipes. You can always find these in the markets in the city, or you may raise parsley in a box in the kitchen window. The thyme bought in bunches may be dried and kept any length of time in a glass jar. It loses its flavor if allowed to cook too long, so it is well not to add the thyme until just a little while before taking the pot from the fire.

Herb Omelette.

For one dozen eggs cut two onions in small pieces, a small handful of parsley chopped very fine, half pound lean breast bacon, cut it in small little square pieces. Fry bacon first till brown, take it out of pan and put it aside, then fry onions in the same pan till brown, then, having your eggs and parsley beaten well, add pepper and very little salt, as bacon is already salted. Pour eggs in pan with bacon and onions together; stir well till nearly done, then try to turn one-half over the other quickly, so it takes the shape of a half moon; then put in dish and serve.

Chicken Fricassee.

Take a chicken, cut it in medium sized pieces, put in a pot with quarter pound of butter, leave pot uncovered and let it brown well, when so brown put in nearly one quart of onions, add water to cover whole, make a bouquet (a big pinch of thyme and plenty of parsley, pepper and salt) and let cook with cover on pot till about half done, then add two glasses of claret, let cook till done, add one tablespoonful of flour, dissolved in one more glass of claret, let boil fifteen minutes and serve. Should you want a first-class dish of same, when you add flour and claret,

BIG MILKING, HIGH-GRADE OR REGISTERED

HOLSTEIN-FRIESIAN SOWS

Are what the South needs. We furnish the kind that fill the pail every time they are milked. They are "mortgage lifters." Don't keep unprofitable scrubs. Send for free circular, "Cow Boarders."



We furnish cows that will give from 7 to 10 gals. per day and 5,000 to 6,000 qts. a year. We recently sold Sweet Briar Institute, Sweet Briar, Va., a car of high-grade Holstein Cows. Go and look at them. They are fairly representative of what we offer. We are responsible and furnish the highest

Two "Mortgage Lifters"—Milk Records of 12,000 lbs. Each a Year.

All mail orders will receive the same attention as if personally selected. Write to-day stating wants.

THE SYRACUSE BREEDERS' ASSOCIATION,

Utica, N. Y.

THE HOLLINS HERD

—OF—

HOLSTEIN-FRIESIANS

A Working Herd, Working Every Day in the Year.

A Pure Bred Holstein Friesian Bull

Will Increase the Production of Butter Fat and Milk in the Herd.
RECORD OF HOLLINS HERD FOR SIX YEARS.

From	To	Pound of Milk.
October 1, 1903,	to October 1, 1904.....	4,000
October 1, 1904,	to October 1, 1905.....	5,020
October 1, 1905,	to October 1, 1906.....	6,267
October 1, 1906,	to October 1, 1907.....	6,536
October 1, 1907,	to October 1, 1908.....	8,906
October 1, 1908,	to October 1, 1909.....	8,913

The milk of every cow and every heifer of milking age, except heifers freshening with first calf WITHIN THE FISCAL YEAR is included in the record. REGISTERED BULL CALVES OUT OF HEAVY PRODUCING COWS FOR SALE.

JOS. A. TURNER, General Manager, Hollins Institute, Va.

MEADOW FARM DAIRY

PURE BRED

Holstein-Friesians.

A WORKING HERD OF SEVENTY-FIVE REGISTERED COWS--ALL FIRST-CLASS

Young Males and Females for Sale.

Address **J. P. TAYLOR,**
Orange, Virginia.

TELL THE ADVERTISER WHERE YOU SAW HIS ADVERTISEMENT.

MORVEN PARK

PROPERTY OF WESTMORELAND DAVIS

Registered Percherons

Five years ago, we sent our representative to France with instructions to secure the best stallion and mares that could be selected. We then imported the French government approved and premium stallion "VIBRAYE" a prize winner himself, and a son of the celebrated "BESIQUE" for six years the winner over all France. The animals selected beside being prize winners are rich in "Brilliant" blood. Our Imported mares work every day, thus demonstrating their suitability for the needs of our farmers.

We have now two-year stallions and colts for sale.

Registered Guernseys

Throughout the North and the West, the Guernsey is the cow, and as our farmers require to increase the butter fat content of their milk, they will find the use of a Guernsey bull upon their herds most satisfactory. Our herd consists largely of animals selected by us upon the Island of Guernsey and is headed by the great bull "France's Jewel VIII" son of "La France VIII" who made 13,000 pounds of milk on grass on the Island of Guernsey. The herd is rich in France, Masher, May Rose and other fashionable strains of Guernsey blood. Our herd is regularly tuberculin tested by the Agricultural Department of the United States. We are still increasing our herd and have only bulls for sale at reasonable prices.

Large Imported White Yorkshires

These pigs are the bacon pigs of the West and of England. They are hardy and prolific. If your sows are of the lard type and give but a few pigs, a Yorkshire boar will increase the size of the litters and improve the quality of the meat. Our pigs have heavy coats of hair and do not sun scald. After eighteen months of exposure without shade and practically no shelter, we exhibited at the Virginia State Fair a boar which took the Championship of his breed. His skin was in a fine condition. We highly recommend the use of these boars to our farmers.

WE ARE ALSO BREEDERS OF DORSET HORN SHEEP.

For further particulars apply to

LIVE STOCK DEPARTMENT

MORVEN PARK, NEAR LEESBURG, LOUDOUN COUNTY, VIRGINIA

ROSE DALE HERD ABERDEEN-ANGUS CATTLE



We offer to the farmers and breeders of the East strictly choice Young Registered Bulls from weanlings to serviceable age. They are of the straight, broad-backed, low-down, compact, blocky type. Many of them show ring animals. They represent the blood of Master II., of Meadow Brook; Gay Lad, Jr.; Heather Lad II., Zaire V., Ermine Bearer, Blackbird of Corskie IV., Black Abbott, Abbottsford, Coquette X., Etc.

They are well grown out, in thrifty condition, but not pampered. Come and see them or write us your wants. Prices right. We can please you. Angus cattle are our specialty. We raise no other stock but give them our undivided personal attention.

ROSDALE STOCK FARMS, JEFFERSONTON, VA.

put in as many mushrooms as you like.

Chicken Sauce Poulette.

Take chicken, cut in small medium sized pieces, one quart onions cut in small pieces, let cook till perfectly done, with water covering the whole all the time. When well done take off the fire and then take six yolks of eggs well beaten, put in your beaten eggs when off the fire, let remain with cover on for about five minutes; put in dish and serve.

Veal Sauce Blanquette.

For three pounds good veal, cut in medium sized pieces, take one-third pound butter, put in pot, fry same well brown (same as chicken), two quarts cut onions, cook whole with water, pepper and salt and bouquet (same way as stated before), and about ten minutes before veal is well done put in spoonful flour dissolved in water first, six yolks of beaten eggs, put them in when veal is well done and taken off fire. Leave pot covered for about five minutes, and serve.

Stewed Veal with Tomatoes.

For three pounds, cut in medium sized pieces, one-third pound butter, brown well, then add two quarts cut onions, three cans tomatoes with a bouquet, salt and pepper, cooked till done; must cook from about one hour and a half to one hour and three quarters; put in dish and serve.

Crab Salad.

For one quart of crab meat three medium sized onions, cut very small, a good bunch of fine chopped parsley, half cup sweet oil, half cup vinegar, two tablespoonfuls prepared mustard, or one spoon of dried mustard (this must be dissolved well in vinegar); mix whole well and add vinegar according to taste.

White Cream Gravy.

Suitable for Asparagus, Cauliflower
Take one-quarter pound butter, put in frying pan and when melted take off the fire, add two tablespoonfuls flour and dissolve in melted butter, and when well mixed put back on fire, add water according to thick-

Someone is going to get a first-class Angus herd header at

SUNNY HOME FARM

this coming fall. Sire a Jilt, son of the great Erica bull Imported Equestor. Dam sired by the world-famous Gay Blackbird (the sire of the \$3,050 Gay Lad that was champion of America during 1895-96). Second dam, a Nose-gay daughter of the great Beau Bill, champion during 1894 and sire of the dam of Vala, probably the most popular Angus female ever in the American Show Ring.

Imported Equestor's sire was Equestrian, one of the greatest bulls ever at "Ballendallock."

Don't wait for the other fellow to get this first class bull, the product of the greatest champions of two continents, but write and have him booked for you at once. Write

A. L. FRENCH, Owner,

Byrdville, Va.



Diamond 241584.

Farmington Stock Farm

Near Charlottesville, Va.
Fine Registered

SHORT HORNS

Bull and Heifer Calves,
Yearlings and young calves
from 4 to 6 months old.
Pure-bred Barred Ply-
mouth Rock fowls for sale.

R. Warner Wood, Birdwood, Va

CEDAR GROVE STOCK FARM

HEADQUARTERS FOR

RED POLLED CATTLE

YOUNG BULLS AND HEIFERS.

Also the home of the "North Carolina" Herd of

DUROC-JERSEY HOGS

Cherry Red Herd headed by N. C. Commodore, 24463; N. C. Colonel, 26087, and Orion T., 23711.

More than twenty sows in service, each one of which is from noted prize winners.

Price for Pigs under 10 weeks old, \$9 to \$10 each; pedigrees furnished with each pig. Write for prices on mature sows or bred glits.

W. A. THIGPEN, PROPRIETOR, CONETOE, EDGEcombe CO., N. C.



ALLANDALE REGISTERED JERSEYS

AT THE VIRGINIA STATE FAIR

Imported Marett's Flying Fox, P. 3219 H. C.

**Won First in Class, Championship, Grand Championship and
Grand Sweepstakes Over Every Bull of Every Dairy Breed.**

FOR SALE:

GOLDEN BARONET

Sire, Baronetti's Golden Lad 6790S. Dam, Baronelia 208304, by King Fox, by Champion Flying Fox, P. 2729, H. C. Born September 20, 1907.

An unusually handsome young bull, now ready for service, combining the acme of fashionable breeding along pre-eminent show and dairy lines with a perfect conformation and fine style. Broad and intelligent forehead, a small muzzle; bright, prominent eyes; a perfect back line, superb tall setting; rudimentaries well developed and beautifully placed.

GOLDEN CRESTMONT

Sire, Violet's Stoke Pogis, 69333. Dam, Dolly's Violet 204806, by Violet's Stoke Pogis 69333.

Born January 23, 1908. Here is your dairy breeding! A glance at this young bull's royal ancestry reveals all that is best known along dairy lines—Stoke Pogis of Prospect on both sides! A large, handsome bull, individually equal to his great breeding. Now ready for service. He will mean dollars to some dairy herd. We have too many bulls and will price him cheap.

We have the goods and we propose to make prices to get the business.

ALLANDALE FARM, = Fredericksburg, Va.

ness wanted, and let cook till it about starts to boil, take off fire, then put six yolks of eggs already beaten with salt and pepper and a few drops of lemon juice, and pour over dish desired and serve.

Consumme.

Four pounds beef, with a good sized bone, meat cut in good sized pieces, one-quarter pound butter, brown well in uncovered pot, then add about one gallon water, three medium sized carrots, two turnips, two onions, a stalk of celery, parsley, pinch of thyme, salt and pepper, let cook at least three hours, strain liquid. That is the bouillon consommé.

Should you want to make a soup of it, put in half pound vermicelli, or quarter pound rice, or one-third pound spaghetti, or quarter pound barley, or anything you wish.

CARAVEN.

NEW ENGINE CATALOG.

The gasoline engine is proving so popular as a reliable helper on the farm that it is now almost the exception to find the farmer without one. Farmers have found it to their advantage in a great many cases to have not only one engine but several engines for different classes of work.

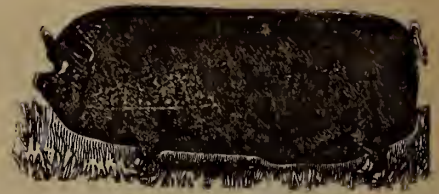
The pioneer of all gasoline engines on the farm is the Jack-of-All-Trades, put out some years ago. Mounted complete on a wood base with large water cooling tank and gasoline tank, this type of engine is made in 2, 3, 4 and 6 horse power sizes and won for itself an enviable reputation.

With the advent of the gasoline engine has come a demand by the farmers for more information regarding the construction, and functions of the various parts of the gasoline engine. Fairbanks, Morse & Co., have just issued a new book on engines now manufactured by this Company and gives many suggestions for the use of such power. For instance, There are 27 different classes of machinery pumping water, illustrated in this book. A copy of this book will be sent free on request. See advertisement in this issue.

Always mention The Southern Planter when writing advertisers.

Earhart's Model Premier 116131

The great boar described on page 982 of The Southern Planter (October issue) stands at the head of my herd and is ably assisted by the grand old Hunter of Biltmore III. and Earhart's Combination. These boars are of the best prize-winning blood of the world, and their great size, combined with extra size and quality, fit them to stand at the head of the best herd in the East.



My sows are daughters and grand-daughters of Premier Longfellow, Baron Duke the 50th, and the noted Huntress and bred to the above great boars are producing a type of hog unequalled in size, easy feeding and show yard qualities. I have over 900 high-class pigs, besides a number of five-months-old gilts and boars that are ready for immediate shipment, and they are so good that I will agree to send them subject to your examination and approval.

Let me quote you my prices, which are reasonable.

Address D. E. EARHART, BRISTOW, VA.

GLENBURN BERKSHIRES

Great sons and daughters of
**LORD PREMIER,
PREMIER LONGFELLOW,
MASTERPIECE,**
in herd.

We are overstocked and will sell sows and gilts bred or open at just a little above pork prices. Pigs also at cut prices.

We have some nice Jersey Cows and Heifers at bargain prices.

DR. J. D. KIRK, - - - **Roanoke, Va.**

EVERGREEN FARMS

I AM NOW OFFERING AT REASONABLE PRICES

JERSEY CATTLE

A few select Bulls, Heifers and Cows, all ages.

BERKSHIRE HOGS

Boars ready for service. Pigs at weaning time \$5 each, either sex.

FOWLS

S. C. Brown Leghorn, Brace's Strain of New York; S. C. R. I. Red, Bryant's Strain of Massachusetts.

ADDRESS **W. B. GATES, PROPRIETOR, RICE DEPOT, VA.**

Milton Farm Berkshires

Milton Premier 113579	{ Premier Star II, 80865	{ Premier Star, 70004
	{ Ruby's Polly VII, 113,577	{ Ruby's Fancy's Sister, 96241
		{ Premier Star, 70004.
		{ Ruby's Polly III, 113588

Fall Pigs are now coming in. A few boars about ready for service and some fine gilts at \$15 to \$20 registered and transferred.

JOHN E. MUNCASTER,

Route 5, ROCKVILLE, MD.



BREEDING EWES

BUY EARLY.

Improve your farm and swell your bank account by stocking with Breeding Ewes. We are in position to sell you good Pure-Bred Bucks and Feeding Lambs, also Feeding Steers, stock cattle and yearlings. Now is the time to buy, and in the spring and summer will sell your fat cattle, sheep and lambs at best market prices. We will sell you stock that will make you good money. Write us

McComb & Block
COMMISSION MERCHANTS

For Sale of **CATTLE, SHEEP, LAMBS, HOGS, CALVES AND FRESH COWS**

Best of reference furnished

OFFICE AND PENS:
UNION STOCK YARDS, RICHMOND, VA.

Established 1890. **P. O. BOX 483**
Phones: Office 1394, Residence 3224

MORVEN PARK

PROPERTY OF WESTMORELAND DAVIS

Registered Percherons

Five years ago, we sent our representative to France with instructions to secure the best stallion and mares that could be selected. We then imported the French government approved and premium stallion "VIBRAYE" a prize winner himself, and a son of the celebrated "BESIQUE" for six years the winner over all France. The animals selected beside being prize winners are rich in "Brilliant" blood. Our Imported mares work every day, thus demonstrating their suitability for the needs of our farmers.

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They are well grown out, in thrifty condition, but not pampered. Come and see them or write us your wants. Prices right. We can please you. Angus cattle are our specialty. We raise no other stock but give them our undivided personal attention.

ROSEDALE STOCK FARMS, JEFFERSONTON, VA.

put in as many mushrooms as you like.

Chicken Sauce Poulette.

Take chicken, cut in small medium sized pieces, one quart onions cut in small pieces, let cook till perfectly done, with water covering the whole all the time. When well done take off the fire and then take six yolks of eggs well beaten, put in your beaten eggs when off the fire, let remain with cover on for about five minutes; put in dish and serve.

Veal Sauce Blanquette.

For three pounds good veal, cut in medium sized pieces, take one-third pound butter, put in pot, fry same well brown (same as chicken), two quarts cut onions, cook whole with water, pepper and salt and bouquet (same way as stated before), and about ten minutes before veal is well done put in spoonful flour dissolved in water first, six yolks of beaten eggs, put them in when veal is well done and taken off fire. Leave pot covered for about five minutes, and serve.

Stewed Veal with Tomatoes.

For three pounds, cut in medium sized pieces, one-third pound butter, brown well, then add two quarts cut onions, three cans tomatoes with a bouquet, salt and pepper, cooked till done; must cook from about one hour and a half to one hour and three-quarters; put in dish and serve.

Crab Salad.

For one quart of crab meat three medium sized onions, cut very small, a good bunch of fine chopped parsley, half cup sweet oil, half cup vinegar, two tablespoonfuls prepared mustard, or one spoon of dried mustard (this must be dissolved well in vinegar); mix whole well and add vinegar according to taste.

White Cream Gravy.

Suitable for Asparagus, Cauliflower

Take one-quarter pound butter, put in frying pan and when melted take off the fire, add two tablespoonfuls flour and, dissolve in melted butter, and when well mixed put back on fire, add water according to thick-

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SUNNY HOME FARM

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Don't wait for the other fellow to get this first class bull, the product of the greatest champions of two continents, but write and have him booked for you at once. Write

A. L. FRENCH, Owner,

Byrdville, Va.



Diamond 241584.

Farmington Stock Farm

Near Charlottesville, Va.
Fine Registered

SHORT HORNS

Bull and Heifer Calves,
Yearlings and young calves
from 4 to 6 months old.
Pure-bred Barred Ply-
mouth Rock fowls for sale.

R. Warner Wood, Birdwood, Va

CEDAR GROVE STOCK FARM

HEADQUARTERS FOR

RED POLLED CATTLE

YOUNG BULLS AND HEIFERS.

Also the home of the "North Carolina" Herd of

DUROC-JERSEY HOGS

Cherry Red Herd headed by N. C. Commodore, 24463; N. C. Colonel, 26087, and Orion T., 23711.

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W. A. THIGPEN, PROPRIETOR, CONETOE, EDGEcombe CO., N. C.



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AT THE VIRGINIA STATE FAIR

Imported Marett's Flying Fox, P. 3219 H. C.

Won First in Class, Championship, Grand Championship and
Grand Sweepstakes Over Every Bull of Every Dairy Breed.

FOR SALE:

GOLDEN BARONET

Sire, Baronetti's Golden Lad 67908. Dam, Baronelia
208304, by King Fox, by Champion Flying Fox,
P. 2729, H. C. Born September 20, 1907.

An unusually handsome young bull, now ready for service, combining the acme of fashionable breeding along pre-eminent show and dairy lines with a perfect conformation and fine style. Broad and intelligent forehead, a small muzzle; bright, prominent eyes; a perfect back line, superb tail setting; rudimentaries well developed and beautifully placed.

GOLDEN CRESTMONT

Sire, Violet's Stoke Pogis, 69333. Dam, Dolly's Violet
204806, by Violet's Stoke Pogis 69333.

Born January 23, 1908. Here is your dairy breeding! A glance at this young bull's royal ancestry reveals all that is best known along dairy lines—Stoke Pogis of Prospect on both sides! A large, handsome bull, individually equal to his great breeding. Now ready for service. He will mean dollars to some dairy herd. We have too many bulls and will price him cheap.

We have the goods and we propose to make prices to get the business.

ALLANDALE FARM, = Fredericksburg, Va.

ness wanted, and let cook till it about starts to boil, take off fire, then put six yolks of eggs already beaten with salt and pepper and a few drops of lemon juice, and pour over dish desired and serve.

Consumme.

Four pounds beef, with a good sized bone, meat cut in good sized pieces, one-quarter pound butter, brown well in uncovered pot, then add about one gallon water, three medium sized carrots, two turnips, two onions, a stalk of celery, parsley, pinch of thyme, salt and pepper, let cook at least three hours, strain liquid. That is the bouillon consommé.

Should you want to make a soup of it, put in half pound vermicelli, or quarter pound rice, or one-third pound spaghetti, or quarter pound barley, or anything you wish.

CARAVEN.

NEW ENGINE CATALOG.

The gasoline engine is proving so popular as a reliable helper on the farm that it is now almost the exception to find the farmer without one. Farmers have found it to their advantage in a great many cases to have not only one engine but several engines for different classes of work.

The pioneer of all gasoline engines on the farm is the Jack-of-All-Trades, put out some years ago. Mounted complete on a wood base with large water cooling tank and gasoline tank, this type of engine is made in 2, 3, 4 and 6 horse power sizes and won for itself an enviable reputation.

With the advent of the gasoline engine has come a demand by the farmers for more information regarding the construction, and functions of the various parts of the gasoline engine. Fairbanks, Morse & Co., have just issued a new book on engines now manufactured by this Company and gives many suggestions for the use of such power. For instance, There are 27 different classes of machinery pumping water, illustrated in this book. A copy of this book will be sent free on request. See advertisement in this issue.

Always mention The Southern Planter when writing advertisers.

Earhart's Model Premier 116131

The great boar described on page 982 of The Southern Planter (October issue) stands at the head of my herd and is ably assisted by the grand old Hunter of Biltmore III. and Earhart's Combination. These boars are of the best prize-winning blood of the world, and their great size, combined with extra size and quality, fit them to stand at the head of the best herd in the East.



My sows are daughters and grand-daughters of Premier Longfellow, Baron Duke the 50th, and the noted Huntress and bred to the above great boars are producing a type of hog unequaled in size, easy feeding and show yard qualities. I have over 900 high-class pigs, besides a number of five-months-old gilts and boars that are ready for immediate shipment, and they are so good that I will agree to send them subject to your examination and approval.

Let me quote you my prices, which are reasonable.

Address D. E. EARHART, BRISTOW, VA.

GLENBURN BERKSHIRES

Great sons and daughters of
**LORD PREMIER,
PREMIER LONGFELLOW,
MASTERPIECE,**
in herd.

We are overstocked and will sell sows and gilts bred or open at just a little above pork prices. Pigs also at cut prices.

We have some nice Jersey Cows and Heifers at bargain prices.

DR. J. D. KIRK, - - - **Roanoke, Va.**

EVERGREEN FARMS

I AM NOW OFFERING AT REASONABLE PRICES

JERSEY CATTLE

A few select Bulls, Heifers and Cows, all ages.

BERKSHIRE HOGS

Boars ready for service. Pigs at weaning time \$5 each, either sex.

FOWLS

S. C. Brown Leghorn, Brace's Strain of New York; S. C. R. I. Red, Bryant's Strain of Massachusetts.

ADDRESS W. B. GATES, PROPRIETOR, RICE DEPOT, VA.

Milton Farm Berkshires

Milton Premier 113579	{ Premier Star II, 80865	{ Premier Star, 70004
	{ Ruby's Polly VII, 113,577	{ Ruby's Fancy's Sister, 96241
		{ Premier Star, 70004.
		{ Ruby's Polly III, 113588

Fall Pigs are now coming in. A few boars about ready for service and some fine gilts at \$15 to \$20 registered and transferred.

JOHN E. MUNCASTER,

Route 5, ROCKVILLE, MD.

BREEDING EWES

BUY EARLY.

Improve your farm and swell your bank account by stocking with Breeding Ewes. We are in position to sell you good Pure-Bred Bucks and Feeding Lambs, also Feeding Steers, stock cattle and yearlings. Now is the time to buy, and in the spring and summer will sell your fat cattle, sheep and lambs at best market prices. We will sell you stock that will make you good money. Write us

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COMMISSION MERCHANT'S

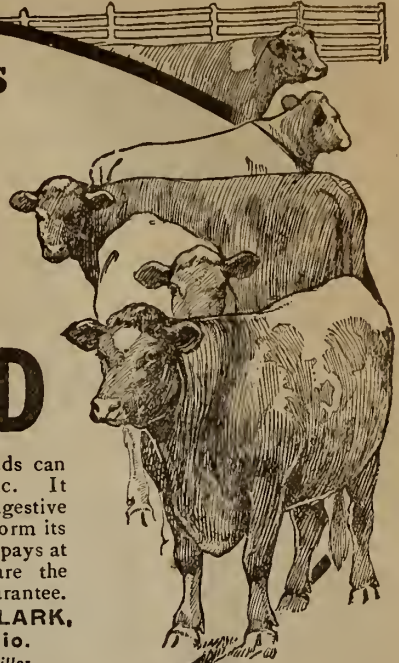
For Sale of CATTLE, SHEEP, LAMBS, HOGS, CALVES AND FRESH COWS

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Established 1890. P. O. BOX 483
Phones: Office 1394, Residence 3224





Live-Stock Dividends

Why don't you, Mr. Enterprising Stock Feeder, earn a larger profit per-centage on your fat cattle? There's just one thing necessary in your system—you select good steers, give good care and sound grain, but perhaps you leave nature, *unassisted*, to do the rest. If you'll think, you'll realize that no animal can consume such a grain-feed as you give, day after day, without digestive disturbance. *You must, therefore, fit the animal to stand heavy feeding, and that's best done by giving, morning and night, a small portion of*

DR HESS STOCK FOOD A TONIC

in the grain ration. This is called by feeders "The Dr. Hess Idea," and thousands can testify that it pays big dividends on a small outlay. Dr. Hess Stock Food is a tonic. It sharpens the appetite and leaves the animal always ready to eat. It makes the digestive apparatus strong so there is no danger of overloading. It assists every organ to perform its function and it prevents and cures minor stock ailments. Dr. Hess Stock Food pays at the milk pail, in the horse stable and in the pig house. All farm animals are the better for it. Fed twice a day in small doses. Sold on a written guarantee.

100 lbs. \$5.00 Except in Canada and extreme West and South. Smaller quantities at a slight advance. **DR. HESS & CLARK, Ashland, Ohio.**

25 lb. pail \$1.60 Also Manufacturers of Dr. Hess Poultry Pan-a-ce-a and Instant Louse Killer. Free from the 1st to the 10th of each month—Dr. Hess (M.D., D.V.S.) will prescribe for your ailing animals. You can have his 80-page Veterinary Book free any time. Send 2c stamp and mention this paper.

DR. HESS POULTRY PAN-A-CE-A Give it to the growing chicks in the springtime; to the moulting fowls in the fall and to your *laying stock* the whole year round. It helps the chicks and hens to *digest more of their food* and so grow faster and lay better. A little Poultry Pan-a-ce-a once a day in soft feed spells the difference between a *little* and a *great deal*, in the hen business. A penny's worth feeds 30 fowls one day. Sold on a written guarantee.

1½ lbs. 25c., mail or express, 40c; 5 lbs. 60c; 12 lbs. \$1.25; 25 lb. pail \$2.50.

Except in Canada and extreme West and South. Send 2c for Dr. Hess 48-page Poultry Book, free.

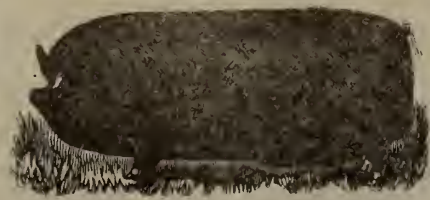
INSTANT LOUSE KILLER KILLS LICE

A JOURNAL OF EASTERN TRAVEL. "Traveller." No. 10.

We were too late for the fetes of Tokyo which begin with the opening of the river in June and close with the "Moon Viewing" in September, but there is no better way to see the life of the people than by a visit to a popular shrine, such as Asakusa, where a small image of Kivannon, said to have been fished from the sea, is worshipped. This temple is very old, and the grounds are the liveliest in Tokyo, being the great holiday resort of the middle and lower classes. Nothing like the spectacle it presents can be found elsewhere within the precincts of a temple. Approaching through rows of red toy shops, we passed the gate guarded by images of the Nio, who scare away demons. People anxious to become good walkers hang up immense sandals before them. They are so grotesquely hideous they might well be alarming to people of delicate nerves.

In the stalls in front we got all sorts of amulets and charms. Amulets are greatly esteemed and are largely used by old people to preserve them in health. Every child also has

Demand for Berkshires Greater than supply



If not ready to buy, let me book your orders at once to make sure of getting them. The record breaking price of ordinary stock hogs is bound to advance price of fancy Berkshires, so don't be caught napping.

My herd, one of the oldest in the United States, represents the most famous blood worthy ancestors of England or America. Ask this paper of my reliability.

THOS. S. WHITE,

Fassifern Stock Farm,

Lexington, Va.

ENTIRE BERKSHIRE HERD

FOR SALE.

On account of change in business, I will sell the choice of several SOWS, one good 2-year-old BOAR, and fine lot of YOUNG GILTS of up-to-date breeding at bargain prices. Also two or three choice young 6-months-old Boars.

PHIL. H. GOLD,

Winchester, Va.

TELL THE ADVERTISER WHERE YOU SAW HIS ADVERTISEMENT.



Last call for Pure-Bred Service Rams. I can supply promptly choice Ram Lambs, yearling and older Rams, also registered Ewes, bred and open, of the following breeds of sheep: Shropshires, Hampshires, Dorsets, Southdowns, Oxfords and Lincolns. I have a grand exhibition registered Shropshire Ram that has won many times and will weigh over 200 pounds—a grand breeder and just in his prime. Price, \$40. Also a fine 200-pound registered 3-year-old Hampshire Ram. Price, \$35. Order to-day.

Address **JAMES M. HOBBS,**
No. 1521 Mt. Royal Avenue, Baltimore, Md.



Pure-Bred Berkshire, Poland-China, Chester White, Yorkshire, Tamworth, Duroc-Jersey and Essex Hogs for sale at right prices, quality considered. Pigs 2, 3 and 4 months old mated in pairs and trios. Service Boars and Sows, bred and open, from 150 pounds each up to 300 pounds each, according to age. Send your order to-day and get them in their winter quarters ere the cold weather sets in.



**PURE-BRED
CHICKENS,
TURKEYS
and
DUCKS**

I have choice pure-bred breeding birds of the following breeds: Barred, White and Buff Plymouth Rocks; Black, Buff and White Orpingtons; Buff, White, Silver, Golden and Columbian Wyandottes; White, Brown and Buff Leghorns; Rose and Single Comb Rhode Island Reds; Black Minorcas, Silver Hamburgs, Black Polish, Black Langshans, White-Faced Black Spanish, Mottled Anconas, Sherwoods, Light Bramas, Indian Games, Partridge Cochins, Blue Andalusians and Partridge Cochin Bantams; Pekin, Rouen and Indian Runner Ducks; Mammoth Bronze, White Holland and Narragansett Turkeys; Geese, Peafowls and Homer Pigeons. Eggs for hatching. Send your orders and be assured of courteous treatment and good values.

one tied on a string around his waist, and in many instances indeed the amulet forms their entire costume. Otherwise, nature's garb suffices. The priests in charge urged us to have our fortunes told, but we turned a deaf ear to their entreaties. We did not care for a Japanese destiny.

Inside there was a motley throng. Worshippers mingling pleasure with piety were as intent on us as on their prayers. Children ran about, laughing and playing. Soldiers smoked, white pigeons and chickens made themselves at home. We made the rounds of the shrines, and stopped before each dingy idol. There was a small shrine to Jiyo, nourisher of little children, where parents of dead children bring their playthings as offerings. Beside it is a praying wheel which the believer turns with the request that he be cleansed of his sins. Binzuru, helper of the sick, stands near. This image has become much worn away from the number of sick people who are constantly rubbing the afflicted part on him. It is only necessary to have great enough faith to be cured. The great hall is filled with pictures and lanterns, the gift of believers. The high altar is laden with offerings. Outside there are also objects of interest. An acolyte took us to see the revolving library, containing the Buddhist Scriptures of seven thousand volumes. They are too voluminous to be read in a life time, but equal merit may be attained by turning the library three times on its axis. Long life, prosperity and avoidance of misfortune is the reward of this simple act of devotion.

A high tower gives a wide view over the city. Below it we see an aquarium, a collection of wild animals, dog and monkey shows, small theatres, cheap photographers, jugglers and every sort of tawdry amusement. The Japanese occupy them-

HILLCREST FARM BERKSHIRES



Herd's Boars—Master's Compensation No. 94346; Sallie Lee's Last of Biltmore No. 111,687.

We have some extra good pigs, from two to six months old, and the boar pigs are good enough to head any herd.

The above pigs are out of daughter and granddaughter of Premier Longfellow, Masterpiece and Lord Premier and such other noted Berkshires.

All stock as represented, or money refunded.

W. R. FENSOM, Richmond, Va.

For Sale

YOUNG BERKSHIRE BOARS

TWO

Grade Jersey Heifers

ONE YEAR OLD

FOREST HOME FARM, Purcellville, Va.

JERSEY BULL CALVES

at prices to justify farmers buying. They are from four to five months old, in good condition and solid colors. No better breeding can be found in this section. Also a few Heifer Calves about same age. Everything we offer is of our own breeding on our own farms. Also a Guernsey Bull ready for service. No females for sale.

Barred Plymouth Rock and Rhode Island Red Cockerels and Pullets now ready to ship.

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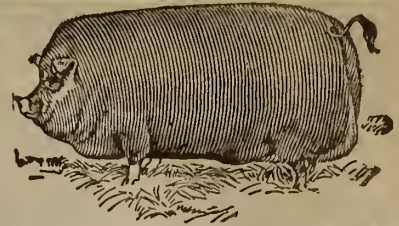
Stop Disease!

in your animals or poultry, by giving *medicine*—not food.

Every animal and fowl that you own, has a *liver*, and when it is sick, the real cause is probably a disordered liver.

To regulate the liver, give a few doses of that old, reliable, well-known liver medicine for animals and fowls—*Black-Draught Stock and Poultry Medicine*.

F. D. Winn, of Randolph, Mo., the popular breeder of prize-pedigreed Poland-China Swine, writes: "I have great faith in Black-Draught Stock Medicine, especially in cases of torpid liver, which I believe to be the cause of more sickness in hogs than all others combined. I have recently used this medicine on three sows that were sick and it straightened them out in a short time."



MEDDLER 2nd. Prize Poland China Boar
At head of Frank D. Winn's herd.

BLACK-DRAUGHT STOCK & POULTRY MEDICINE

Sold by All Reliable Druggists and Dealers.

P 1

selves as seriously and extract as much pleasure from these simple things as if they were the goal of existence. We sat down in a tea house to rest and to listen to the deep sonorous Asakusa bell. The girl brought us on our tray the most delicious paste-like "Turkish delight," which was the best sweet we found in Japan. We liked it so much that we slipped a piece of it in our bag to carry home to our friend, Sara. Though we separated from her in the morning and each spent the day apart, busy in sight seeing, we always met at afternoon tea in the hotel and making ourselves comfortable in our favorite way, exchanged our experiences of the day. Then we would see other friends and acquaintances passing through Tokyo, and listened to the jokes of a stout naval gentleman, a great favorite of ours.

Though accustomed to "yellow journalism" in America, we were astonished at the utter freedom with which the foreign papers in Japan attack any subject that comes up. A discussion of public morals was going on during our stay in Tokyo, and the papers looked the question squarely in the face and frankly said what they thought about it. A little incident of Mr. Bryan's visit stirred up another lengthy newspaper discussion. He attended a reception given to Togo and, as a souvenir of the occasion, asked for the stool on which Togo sat. Now, though this was a plain looking stool, it was an ancient historic relic, greatly prized, but, nevertheless, it was given to Mr. Bryan, who did not in the least suspect the facts in the case.

EXCELLENT

SHORTHORN HEIFERS AND BULLS.

By the Scotch topped Bull, Royal Lad (advertised by the old reliable breeders, P. S. Lewis and Son, as the best bull ever bred on their farm) by the International winner, Frantic Lad, son of The Lad for Me, champion of America in 1900. Also a few fresh Short Horn Cows.

Pure Yearling **SOUTHDOWN RAMS** by Senator, a prize winner in Canada as a lamb and yearling. He was bred by Hon. George Drummond, the foremost Southdown breeder in America.

R. J. HANCOCK & SON, "Eilersle," Charlottesville, Va.

Berkshires For Sale.

Nice lot of Sows Bred, also Pigs four weeks and four months old.
S. C. Brown Leghorns and Barred Plymouth Rocks for sale.

RIVER VIEW FARM, C. M. BASS, PROPRIETOR, RICE DEPOT, VA.

DUROCS SHORTHORNS SHROPSHIRE

Send for printed list of Durocs and DUROC FACTS. We have boar pigs and shotes, three fine bred sows and two great herd boars, **COMMODORE KING** and **BEAT'S TOP NOTCHER**, for sale, at farmer's prices.

The great Waverly herd of Shorthorns, dual-purpose cows, in calf, heifers and young bulls.

Fifty fine Shropshires, rams, ewes and lambs, from imported prize winners, from \$15 to \$25 each, registered.

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Poland-Chinas

A superior lot of Pigs by Gray's Perfection. 73339; "Top Chief," Gray's Ideal, 65805, and other noted boars. Can furnish pairs not akin to those previously purchased. Come to headquarters and get the best at one-half Western prices. Oldest herd in the State.



J. B. GRAY, Fredericksburg, Va.

The papers, however, did not leave him long in ignorance. The enormity of his offense was published broadcast, and Mr. Bryan returned the stool with many apologies.

During our stay in Tokyo the Emperor and his suite went to the shrines at Ise to announce the peace to his ancestors, and to give thanks for the victory, a pious duty performed by all the Court. We took advantage of the opportunity and repaired to Shimbashi Station to see them take the train, for we were curious to see the man who had given his country its first Constitution and who ruled it so wisely and well through troublous times and tremendous changes. That he is a statesman is plain. He is also said to be an accomplished gentleman, something of a poet and an artist. I have a little poem of his entitled "Wisdom's Goal:"

The water placed in goblet, bowl or cup

Changes its form to its receptacle,
And so our plastic souls take various shapes,

And characters of good or ill to fit,
The good or evil in the friends we choose

Whose strength of character may prove the whip

That drives our eyes to seek fair Wisdom's goal.

—Mutsuhito, Emperor of Japan.

Another souvenir that we cherished was some bonbons from the imperial table, presented by the Emperor at a lunch to the military attaches. We felt a sufficiently keen interest in him to stand a long time in a crowd to see him. The street was guarded by a cordon of soldiers and lined with school children who sang the national hymn as the Emperor passed. No cheering was allowed. The household troops came first, in dark blue uniforms with red trimmings, a feather in their cap, and each carrying a color pennant. Then the suite came in open landaus, and finally the State coach, with an embroidered hammer cloth and surrounded by ecurries. We got an excellent view of his Majesty, and thought he looked very intelligent and commanding in his uniform. The Empress is considered very good looking and attractive and devotes herself much to charitable and educational work.

Our last days in Tokyo were spent in sending off Christmas remembrances to friends at home, and trying to collect the things we had ordered made. Some people say the Japs are unreliable in business. Our experience with our orders would seem to confirm this statement. Though the merchants had ample time, nothing was finished when promised, and there was no explanation of the delay. We took the satisfaction of assuring the delinquents that we would withdraw our patronage from them and warn our friends against them, but they smiled blandly throughout the interview, despite the fact that we shook our fingers at them and said, "You very bad men; you no can tell the truth."

Mound City Stock Farm

Shires, Percherons, Belgians,
Coach and Hackney Stallions

I will sell at my barn cheaper than any other firm in America. The reason I can sell cheaper is because my father lives in England and he can buy them for me and save all middlemen's profits. There is no place in America that you can make a better selection than at my place, for I handle five different breeds. My draft stallions weigh from 1,700 to 2,200 pounds; my high-stepping Hackneys and Coachers weigh from 1,200 to 1,400 pounds. If you are in need of a good stallion in your community, write and tell me your wants and I will try and place one there. I will give you plenty of time to pay for the horse. Every horse is backed up with an iron-clad guarantee, and all of them are good enough to win in any company. Correspondence solicited and visitors welcome. If a good stallion is wanted in your community please write me.

W. B. BULLOCK, Proprietor,
Moundsville, W. Va.
Branch Barn: New Church, Accomac County, Va.
(Address me here.)



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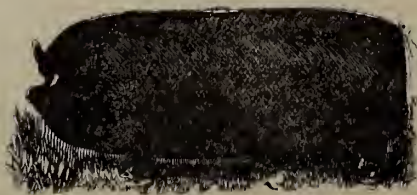
All calves vealed except those fit to head herds, and we have a few—2 to 5 months old.

Pedigrees and prices, write Secretary.

LARGE YORKSHIRE SWINE.

Registered from Registered Prize Stock.

MOORE'S BROOK BERKSHIRES



Still to the front with 24 new ribbons to their credit, making 57 ribbons and silver cups in three years. For breeding, we have Masterpiece, Lord Premier, Premier Longfellow and Lord Premier Rival on the top crosses. The individuals do justice to this breeding. Best lot of fall pigs we have ever bred—children and grandchildren of Masterpiece and Lord Premier. Herd Boars and Gilts ready now. Bred Shows after November 12th.

BRONZE GOBBLERS, MUSCOVY DRAKES, R. I. RED COCKERELS.
MOORE'S BROOK SANITARIUM CO., CHARLOTTESVILLE, VA.

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One Registered Mare, "Empress," with foal by "General."

One Registered Stallion, coming three years old.

HOLSTEIN-FRIESIANS.

Two Bull Calves, four months old, for sale.

T. O. SANDY,

Burkeville, Va.

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- Bull. 161. The Influence of Depth of

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☞ Again the **stamp of official approval** has been placed on the cream separator which the dairyman has found to be **most profitable, easiest to run, easiest to clean, and handsomest in appearance.**

☞ Again the "would-be" competitors of the United States Separator **go down in defeat.**

☞ If you want to see for yourself why the United States Separator was awarded the **Grand Prize**, go to our local agent nearest you. He will show you.

☞ Or ask us, direct, for information.

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BELLOWS FALLS, VT.

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DUPLICATE GRINDING MILLS

SUPERIOR to any other make. Do more and better work, require less power and produce a better grade of feed. The only mill in the world made with a double set of grinders or burrs. Grinds ear corn, shelled corn, oats, rye, wheat, barley, kafir corn, cotton seed, corn in shucks, sheaf oats, or any kind of grain, coarse medium or fine.

SIX SIZES

Simple in construction, easily operated, strong and durable. Never choke. Any power. Especially adapted for gasoline engines. Write for catalogue.



THE DUPLEX MILL & MANUFACTURING CO.,
Box 20. SPRINGFIELD, OHIO.

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- Cultivation Upon Soil Bacteria and Their Activities.
- Circular 3. Improved Seed Wheat. Kentucky Experiment Station, Lexington, Ky. Bull. 136. Commercial Fertilizers.
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- Bull. 138. Commercial Fertilizers.
- Bull. 139. Tobacco.
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A Grinnell Detachable Spreader Saves Trucks, Box and All

Only combined spreader and farm wagon made.

Saves you \$25 on any other wagon box spreader, --\$70 to \$90 on the big "horse-killing" kind.



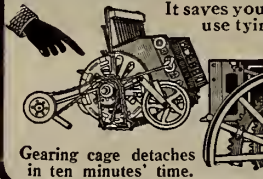
Here's Just The Spreader For Southern Farmers

Here is the spreader you have been looking for. Farmers have for years been saying, "the old style spreader costs too much"—"they are too hard on the horses." "Why don't some manufacturer make a combined spreader and farm wagon?"

We've done it! The Grinnell is a complete manure spreader. A machine that will spread any kind of fertilizer. We guarantee it. Fifty bushels capacity. Light draft, two horses can haul it easily. You can spread more in a day with it than with any old style horse-killing machine made.

AND It is also a complete farm wagon,—built stronger than the ordinary farm wagon; box standard size, fits any standard trucks. We can supply any style trucks, scoop board, top box and all at a small extra cost for making a complete wagon.

AND THEN It saves you 70%. There is no use tying up money in a wagon box and trucks that are idle 11 months in the year. Not by any means when you can buy a Grinnell and save \$25 to \$90 on your investment.



Write Today For Catalog, My Low Price and Special Offer.

Read What Mr. J. S. McCollough Says:
"I take great pleasure in testifying to the merits of your detachable manure spreader. Works to perfection in all kinds of manure. Did not have any trouble with it at all. BUT YOUR DETACHABLE FEATURE IS THE BEST THING OF ALL. It saves me the price of a new wagon at corn husking time. I just remove the beater and apron in about ten minutes, put on my side boards and shoveling board and have my wagon complete. Used it all through the corn husking season as a wagon. Put the beater back on as easily and had my manure spreader ready for work."
R. F. D. No. 1, Colfax, Iowa.

The Grinnell drives from both sides—one lever;—spreads 5 to 20 loads to the acre, full fifty bushels capacity—o-n-e-f-o-u-r-t-h more than any other wagon box spreader made. You can't beat it at any point.

We want to prove the merit of our spreaders to every farmer in this country. Just try a Grinnell 30 days entirely at our risk. Our triple guarantee insures satisfaction, materials and low price. Greatest ever made. Get our catalog now telling all about it and liberal offer we are now making to the first man who buys in any section. Just write me a personal letter or postal. Address
CHAS. F. CHASE, Pres.,
Chase Manufacturing Co.
199 Broad St., GRINNELL, IOWA

GET MY PRICE This Ad Saves Dealer, Jobber, Catalog House Profits.

Buy direct from the biggest spreader factory in the world. —My price has made it—No such price as I make on this high grade spreader has ever been made before in all manure spreader history. I save you \$50. Here's the secret and reason: I make you a price on one based on a 25,000 quantity and pay the freight right to your station. You only pay for actual material, labor and one small profit, based on this enormous quantity on a



GALLOWAY

it 12 months if it's not a paying investment How's that for a proposition? If I did not have best spreader I would not dare make such an offer. 20,000 farmers have stamped their O. K. on it. They all tried it 30 days free just like I ask you to try it—30 DAYS FREE. Drop me a postal, and say—"Galloway, send me your new proposition and Big Spreader BOOK FREE with low prices direct from your factory." I also make a new complete steel gear Spreader—70-bu size.

H. Gutherson, Gladbrook, Iowa. "Works fine. Spreads all kinds of manure better than any spreader I ever saw. So simple, nothing to get out of repair as compared with other spreaders."

T. F. Stice, Oswego, Kans. "Often pull it with my small buggy team. Does good work. Have always used the — before. Galloway much the best. If going to buy a dozen more they would all be Galloways."

WM. GALLOWAY COMPANY, 219 Galloway Station, WATERLOO, IOWA

- Bull. 2. Some Insects Injurious to Cabbage, Cucumbers and Related Crops.
- Bull. 3. Some Seed Potato Questions, 1909.
- Virginia Crop Pest Commission, Blacksburg, Va. Circular 4-B. Circular to Nurserymen and Fruit Growers Relative to Purchase of Nursery Stock.
- Wyoming Experiment Station, Laramie, Wyo. Bull. 81. Lamb Feeding for 1908-1909.
- Bull. 82. Soil Nitrogen.

DAIRYING IN VIRGINIA.

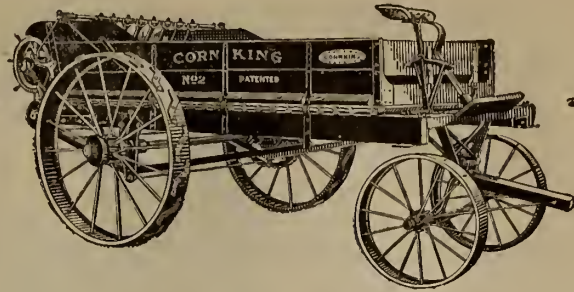
The Production of Sanitary Milk.

Probably there is more interest at present in the development of dairying in Virginia than in any other agricultural subject. The people of the State are beginning to see the absurdity of the present situation, in which Virginia, with superior natural advantages for the dairy industry, now sends over a million dollars a year out of the State for dairy products. The State Dairy and Food Commissioner, the State Dairymen's Association (which recently had a very successful meeting at Leesburg), and the State Experiment Station, are uniting in an effort to develop our dairy interests, believing that this money should be saved, and believing in the power of dairy farming as a restorer and conservator of soil fertility.

The State Experiment Station has just sent out to the 20,000 Virginia farmers on its mailing list two publications that will help to bring this matter to the attention of our people. Circular No. 8, "The Dairy Cow and Her Record," by W. K. Brainerd, shows how a profitable herd may be secured by eliminating the scrubs, using the Babcock test and the milk scales; and by grading up with a pure-bred sire. The circular states: "If all the cows now in Virginia were charged a fair price for food and labor, one-third of them are being fed at an actual loss."

Bulletin No. 185, "The Production of Clean and Sanitary Milk," by the same author, reports the results of bacteriological examinations of milk produced under conditions, good, bad, and indifferent, as they exist on the dairy farms of the State. Some of the conclusions are: "The chief sources of contamination are dirty cows, dirty stables, dirty milkers, dairy utensils which have cracked for the lodgment of dirt and which are not properly sterilized, mud holes in the barn yard, impure water, bedding and feed, and from milkers or attendants who come into contact with a contagious disease. Milk produced under average farm conditions during the winter months contains from 40,000 to 700,000 bacteria per cubic centimeter; while milk produced at the Experiment Station barn (a modern sanitary stable) over a period of six weeks contained an average of only about 2,700 bacteria per cubic centimeter. In this stable about 50 per cent. of the bacteria were eliminated when the straw bedding was well moistened before milking. A reduction of about 25 per cent. was secured when a small mouth pail was used in milking, as compared with an open pail. About 23 per cent. of the bacteria were eliminated when the flanks of well-cleaned cows were moistened with a damp cloth before milking."

Suggestions are given on the construction of sanitary dairy stables, and on the care of cows, and of



Barnyard Manure is the ONE PERFECT FERTILIZER

BARNYARD manure contains all the elements of plant food. Every ton of stable manure is worth from \$2.00 to \$4.00 or more, based on the commercial value of its fertilizing content. But, based on the increased crop yield, it is worth much more—just how much depends upon how you care for it and spread it over your land.

Get full value—not half value—out of the manure. There is only one way. Spread it with a machine which pulverizes all of it, and spreads it uniformly, and as you want it, broadcast over the land or in rows.

Your farm will maintain its own fertility if you give it a chance. You don't need patent fertilizer which only contains a few of the necessary plant elements. Save the manure and spread it with an

I. H. C. Spreader

You make the wisest possible investment when you purchase a Kemp 20th Century, a Cloverleaf or a Corn King spreader.

These machines differ in many features of construction and operation, but they are all right-working, and that is the essential point. They all avoid the waste of manure, greatly reduce the time and labor of handling, and rob manure spreading of its disagreeable features.

You may have a large farm; you may have a small farm. No matter what the size, you will find an I. H. C. spreader to suit your requirements.

Join the ranks of Soil-Builders. It will pay you big money.

Call on the International local agent—see him about a spreader for your own use. He will cheerfully give you catalogues and complete information; or, if you prefer, write us for further information.



Prosperity
Prosperity for All

REGISTERED AND BY
INTERNATIONAL HARVESTER
COMPANY CHICAGO

INTERNATIONAL
HARVESTER COMPANY
OF AMERICA
(INCORPORATED)
CHICAGO, U. S. A.



Look for the Trade-Mark. It is a Seal of Excellence and a Guarantee of Quality.

milk. These publications will be sent free upon application to the State Experiment Station, Blacksburg, Va.

SALES AT LYNNWOOD.

John F. Lewis, Lynnwood Stock Farm, has recently sold and shipped

to the McMillans, of Iowa, eight registered Percheron stallions; viz., Rob Roy, Black Jack, Kismet, Hobo, Seline, Cinq, Leon and Grandee. We congratulate Mr. Lewis on these sales but would very much prefer to have learned that he had distributed these horses in Virginia.

OLD BUILDINGS OF INTEREST IN RICHMOND.

By the Late Mrs. Clifford Cabell. On Church Hill and in the lower part of Richmond towards Rocketts there is much to interest the antiquarian. In the writer's childhood and early youth (early in the nineteenth century) this was the court end of town, but "westward, ho, the star of empire takes its course."

First of all in historic interest is St. John's church on Church Hill, which was built in 1740. It was here Patrick Henry made his immortal speech, "Give me liberty or give me death." Then there is the old Van Lew mansion, the home of Miss Eliza Van Lew, who was made Post Mistress of Richmond after the war by the Federal authorities, in recognition of the services she had rendered them during the war. This house was built during the close of the eighteenth century by Dr. Adams, one of the wealthiest citizens of Richmond, and a man of elegant tastes. By the way, it was his short sighted policy that gave Richmond an impetus towards the west. While the building of the Capitol was in contemplation, a proposition was made to have it located on Church Hill and the Committee applied to Dr. Adams for the requisite ground, but he charged so high that they withdrew their application and obtained land on Shockoe Hill where the Capitol was actually built. Dr. Adams had cause to regret deeply the stand he had taken, for coincident with the building of the Capitol the city commenced to spread in a westerly direction, and property began to depreciate on Church Hill. It would have been to his interest if he had made a free gift to the city of a site for the Capitol. Jefferson chose the model for the Capitol in 1785, selecting as his model an ancient Roman temple, "Maison Carree," at Nismes, in France. This model is still in the State Library at Richmond. The cornerstone was laid August 18, 1785, and the Legislature met in it October 19, 1789, the anniversary of Cornwallis' surrender.

But, to return to Dr. Adams, as we descend Church Hill we pass a good many old houses of fine pretensions with low windows that would have delighted McCawber. These were built by Dr. Adams, who seemed to have a strong turn for architecture.

Leaving Church Hill behind us and going on to Main street, we come to the old stone house, probably the oldest in Richmond, built by Jacob Eze in 1737. This as the headquarters of Washington at one time, and during the Revolutionary War often sheltered Lafayette, Jefferson, Henry and other illustrious heroes. As we pass the old market house I recall the fact that a venerable lady told me she had attended a theatrical performance in the second story there, early in the nineteenth century. Amongst the performers were Mr. and Mrs. Hopkins and Mr. Poe (afterwards father of the poet), who married Mrs.

Here's Something New From Kalamazoo



You can save enough real money in getting a Kalamazoo, to buy most of your fuel—pay your taxes, buy a dress or suit of clothes or materially increase your bank balance. You get the best made—the most economical—the most satisfactory stove or range to be had anywhere at any price. With an actual cash saving of from \$5 to \$40 on your purchase. Hundreds of thousands of satisfied users have told us this is true.

We make it easy for any responsible person to own a Kalamazoo. We are the manufacturers. You get lowest factory prices, 360-days' approval test, and our convenient terms. Take your choice—

Cash or Credit

Write for Catalog No. 400 and special terms. It gives you all the necessary information about buying and using a good stove or range. Compare our prices and quality with others, prove for yourself what you save in buying a Kalamazoo for cash or on time. Freight prepaid. Safe delivery guaranteed.

Kalamazoo Stove Co., Mfrs. Kalamazoo, Mich.

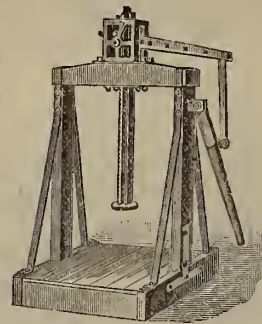
"A Kalamazoo Direct to You" TRADE MARK REGISTERED



This Oven Thermometer saves fuel and makes baking easy.



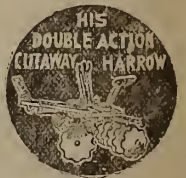
CLARK'S SAMPSON TOBACCO PRESS AND JACKS.



Every tobacco grower should have one or more of these presses. Save money by using this press; make money pressing for others. The platform of this press is 3 1/2 feet wide and 4 feet long. The height in the clear is 4 feet. The press or jack stand is on top of the beam overhead. This is a very powerful press.

Many Hundreds of Them Are Now in Use in the Tobacco Sections.

We sometimes make them much larger for special work. It is used for pressing in barrels, hogsheads and cases, fruit, tobacco, dry goods, also for tank scrap, etc. It weighs about 560 pounds. The wood work is made of the best hard maple, ash or oak. The iron work is constructed of the best malleable iron and steel, strongly bolted together. Write to-day for FREE BOOKLET and Special Prices.



CUTAWAY HARROW CO., 861 Main St., HIGGANUM, CONN.

ONCE OVER IS TWICE DISKED

If You Use An Imperial Flexible Frame Double Disc Harrow

A complete Foretruck Disc Harrow (out-throw) with a second pair of disc sections (in-throw) attached by a jointed frame that harrows the ground twice at one operation, saving one-half in time and nearly one-half in horsepower. The forward pair of disc sections and throw it outward; rear pair works it again and throws it back, leaving the surface level and finely pulverized. The soil is put into better condition for seeding than after two workings of an ordinary disc.

Only one more horse required than would be used in a single Disc of the same width cut; four are sufficient for the 6 and 7 foot sizes.

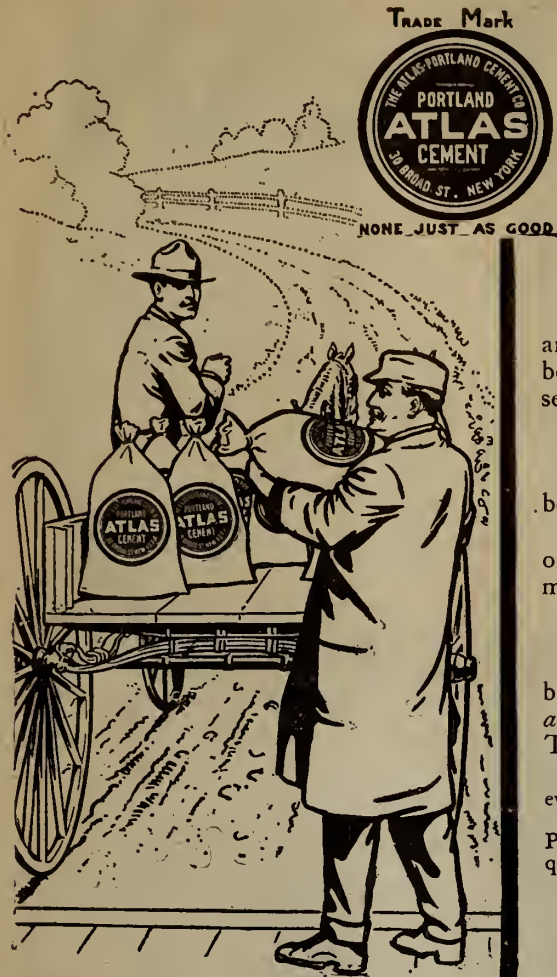
THE BUCHER & GIBBS PLOW CO., 814 East Seventh St., CANTON, O.

SIZES:
 16-Disc, 4 foot cut.
 20-Disc, 5 foot cut.
 24-Disc, 6 foot cut.
 28-Disc, 7 foot cut.

Unequaled for discing corn stubble, plowed ground, or for any purpose for which an ordinary disc harrow could be used.

Disc at our risk and test our statements. Any dealer who handles our implements is authorized to put them out on trial with intending purchasers. Write us for descriptive circular and full particulars.

(Patented)



Ask your Dealer for **ATLAS** Portland Cement

It Makes the Best Concrete

There are many brands of Portland Cement manufactured and various grades of quality, yet there is as much difference between these brands as there is between various kinds of seeds, and you know that poor seeds never produce a good crop.

The Best That Can Be Made

There is only one quality of ATLAS Portland Cement—the best that can be made, and the same for everybody.

ATLAS is always uniform. It never varies in fineness, color or strength, as it is manufactured from the genuine raw materials; that is why it makes the best concrete.

The Standard for Quality

ATLAS is the standard by which the quality of all other brands is measured. To say that a brand of cement is *almost* as good as ATLAS, is to pay it the highest compliment. There are none *just* as good.

ATLAS has the greatest sale because it has the greatest merit. It stands every test by architects, engineers and chemists.

The U. S. Government bought 4,500,000 barrels of ATLAS for the Panama Canal. You may buy only one bag, but you get the same quality the Government gets. Can you ask for any better?

Write for copy of our book, "Concrete Construction About the Home and on the Farm." It contains 160 pages of practical information and over 150 illustrations. We mail it Free.

Ask your dealer for ATLAS. If he cannot supply you, write to

The ATLAS Portland CEMENT Company

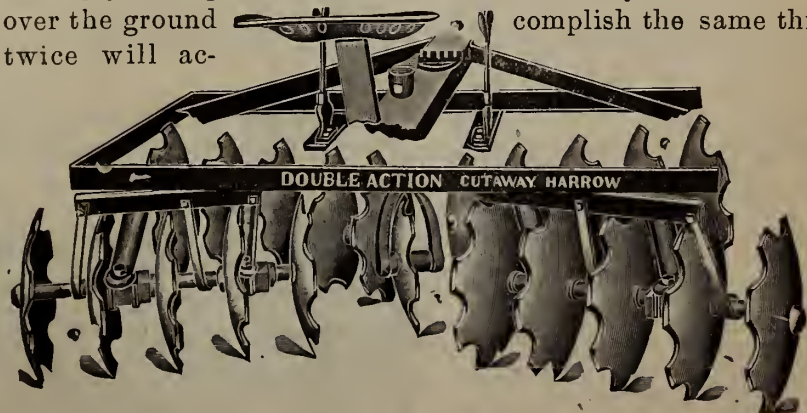
Department 116

30 Broad Street, New York

**DAILY OUTPUT OVER 50,000 BARRELS
—THE LARGEST IN THE WORLD.**

Hopkins when she became a widow. It was customary in those days to perform first a tragedy, comedy or melodrama and to follow up this with a farce. On the occasion described to me by the old lady the farce given was "The Spoiled Child," by Foote, the English comedian, who boasted that he had enriched the English stage by sixteen original dramas, all of which, I believe, have been consigned to oblivion, except "The Mayor of Garrick," which contains the very entertaining characters of Jeremy Sneak and Major Sturgeon. Mrs. Hopkins took the part of "Little Pickle" in "The Spoiled Child," acting it with much spirit, dressed in boy's clothes. Our thoughts and attention naturally turned next to the stately Allen mansion on the corner of Main and Fifth streets, where Edgar Allen Poe passed the greater part of his boyhood, as the adopted son of Mr. John Allen. The beauty and elegance of his surroundings must have been gratifying to his aesthetic sense. The beautiful lawn and fine old trees make a very appropriate setting for the handsome mansion.

No need to buy a "double disc" harrow, where one harrow is simply swung behind another harrow. Any disc harrow run over the ground twice will accomplish the same thing.



The great DOUBLE ACTION DISC HARROW, where the discs are set together in a frame, chews the earth like being masticated in a gang saw. There is a world of difference.

ASHTON STARKE, Richmond, Va.

When corresponding with our advertisers always mention Southern Planter.

The house was built early in the nineteenth century by a Frenchman named Gallego, the founder of the celebrated Gallego Mills.

There was a house on Fifth street in which Tom Moore, the Irish poet, sojourned when he visited Richmond, the house of a Mr. Gilliat, a wealthy and prominent man in those days. but this house has long since disappeared and given place to more modern ones. Moore's song,

"Why does azure deck the sky,
But to be like thine eyes of blue?"
was addressed to a beautiful Miss Gilliat, the daughter of his host. His muse found no lack of subjects in Virginia, for it will be remembered that he founded one of his songs on an Indian legend connected with the Dismal Swamp. The circumstances that led to Moore's visiting Virginia are that in 1803, through the influence of his friend, Lord Moira, he was appointed Registrar of the Admiralty Court in Bermuda, and on his way thither he landed in the United States and visited Virginia, where he must have been gratified to find that his songs were already known and popular. By the way, four or five months of service in the West Indies sufficed to weary him, so he appointed a Deputy Registrar and returned to England, and this Deputy, proving an embezzler, subsequently involved the poet in great trouble.

A brother of Campbell the English poet, married a daughter of Patrick Henry, and lived in Richmond early in the nineteenth century, but his residence has disappeared, or been consigned to oblivion.

The residence of Chief Justice Marshall still stands intact on the street named in honor of him, and as the fame of this great jurist grows brighter and widespread each year, no doubt in the coming years his old home will be eagerly sought after and reverentially visited by tourists and sightseers.

One of the famous old buildings of Richmond is the Swan Tavern, on Broad street near ninth. In old times it was reputed to be full of "good feeding, good breeding and good fellowship." It might have been called "The Lincolns Inn" or "Doctors' Commons" of Richmond, for there the non-resident judges and lawyers assembled in term time. Though of unpretending exterior, the Swan Tavern enjoyed the highest repute for good fare, good wine and good company. There was an annex to this hostelry on the corner of Broad and Ninth streets. Here Aaron Burr was kept prisoner during his trial from May 22 to September 15, 1807, the Federal Court having no prison then under their control here. Tradition hands down a grim witticism uttered by Burr during this period. It is said he asked some friend to come to see him, adding with a bitter smile, "There is no danger of your not finding me in." I may add in this connection that the writer's father, Mr. Christopher An-

POTASH

It has been proved beyond all doubt that

Potatoes

need Potash in Sulfate form to produce sound, heavy tubers free from scab and rich in the starchy elements that makes the mealy, well-flavored potato that everybody likes and will pay a little more to get.

Potash Pays

Be sure your commercial fertilizer is balanced with at least 9 per cent. of Sulfate of Potash. Two lbs. Sulfate of Potash to each 100 lbs. of fertilizer increases the Potash total 1 per cent.
Send for Literature about soil, crops, manures and fertilizers—compiled by experts. Mailed on request—Free.

GERMAN KALI WORKS, Atlanta, Ga., 1224 Candler Bldg.
Chicago, Monadnock Block New York, 93 Nassau St.

Lee's Prepared Agricultural Lime

The great crop grower and land improver. Never falls when properly used to give perfect satisfaction. It prevents rust and scab on wheat and oats, and insures a good stand and growth of clover or other grasses.

Lee's Special Wheat Fertilizer

Grows in favor and sales every season. We hear of no rust or scab, but all say the crop is increased eight to ten bushels of wheat, of fine quality, and they have fine stands of clover or other grass.

Imported Thomas Basic Slag

This valuable fertilizer is used almost exclusively in Europe on fall crops, such as grasses and turnips as well as grain. It has several advantages over our phosphate. It is insoluble in water, and being much heavier than the soils, is not washed away by heavy rains, but remains where distributed until dissolved by the humic acid of the roots of plants. It also contains forty to fifty per cent. of free lime. Its lasting results make it a cheap as well as good fertilizer.

Lee's High Grade Bone and Potash

For potatoes, cabbage and other crops. Constantly on hand Land Plaster, Agricultural Lime, carload or less.

—Manufactured By—

A. S. LEE & SON'S COMPANY, Richmond, Va.

SEND FOR CIRCULARS, DEPARTMENT "A."

MORPHINISM CURED



No Experiment.

Alcoholism, Morphine and other drug addictions cured in from four to six weeks. 28 years successful experience.

Write for our booklet, "What do You Drink?"

The Keeley Institute,
GREENSBORO, N. C.

thony, a Lynchburg lawyer, was one of the jurors in Aaron Burr's case.

The Eagle Hotel was another famous hostelry of Richmond. It was built by a man named Currie, and was an immense structure, with a large golden eagle over the door. Lafayette stayed there on his visit to this country in 1825, and a grand ball was given there in his honor. It was on Main between Nineteenth and Twentieth street, and was burned down years ago, and afterwards rebuilt, but of late years it has disappeared, owing to the modern fondness for tearing down and re-modeling.

The White House of the Confederacy is one of the noted buildings of Richmond. It was built by Dr. Brockenborough, and in his day was the abode of elegant and lavish hospitality.

OWN YOUR SCALES.

There is no question about the need of a good scale to every farmer, dairyman or stockman. It is one of the necessary adjuncts of his business and the wisdom in owning your own scales is easily demonstrated in the saving made each year. To do away with the fees collected by the public weigher, and the time saved in hauling to their scales is an item the successful farmer turns to his own account.

Recognizing the needs along these lines, the Osgood Scale Co., of Binghamton, N. Y., has put on the market an assortment of scales that are within the reach of everyone. The list includes their well-known Portable Pit and Pitless Scales—steel and cement construction—and many other kinds for various purposes. They are not only improved and up-to-date in every respect, but are absolutely accurate—guaranteed so by their makers.

Upon request the company will furnish free their illustrated catalogue picturing all kinds of scales and containing much valuable scale information. Address the Osgood Scale Co., Box 205, Binghamton, N. Y.

A Colorado farmer relates the following in reference to the use of Hubbard squashes in that State: "A neighbor claims he can finish the fattening of hogs on Hubbard squashes in one-half the time he can with corn, while with pumpkins he can only make them hold their own. He says he can finish a hog in fair condition in six weeks on about one ton of squashes, making a 200 to 250 pound hog. He cuts the squashes and feeds them raw, and says the hogs clean up everything, shell and all." The squash apparently has a fattening value greater than that of the pumpkin, and both pumpkins and squashes are worthy of more attention in swine husbandry than has been generally given them.—From Coburn's "Swine in America."

ENTERPRISE

Meat and Food Chopper

The only true Meat Chopper—the only chopper that has a razor-edge, four-bladed steel knife and perforated steel plate that actually cuts meat, fish, vegetables, fruits, bread, etc. without crushing or mangling.

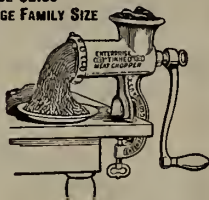
The "ENTERPRISE" is the strongest chopper made—has the fewest parts—is the simplest in construction. Easily cleaned. Cannot rust.

For Sale at Hardware and General Stores Everywhere.

No. 5, Small Family Size Chopper, \$1.75. No. 10 Large Family Size Chopper, Price, \$2.50.

"ENTERPRISE" Meat and Food Choppers are made in 45 sizes and styles for Hand, Steam and Electric Power. We also make cheaper Food Choppers but recommend the above. Illustrated catalogue FREE.

No. 10
PRICE \$2.50
LARGE FAMILY SIZE



Sausage Stuffer and Lard Press

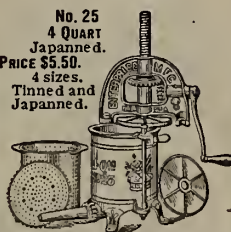
The quickest way, the cheapest way to make the best sausage and lard is to use the "ENTERPRISE" Sausage Stuffer and Lard Press—two machines in one. It is an absolute necessity at butchering time.

It is strongly made and every part does its work without a hitch. Plate fits perfectly and cylinder is bored absolutely true. Pressure will not cause meat to rise above plate. The patent corrugated spout prevents air entering the casing, thus assuring perfect filling and preservation of sausage.

Can be changed into a Lard or Fruit press in a jiffy. Sold by Hardware Dealers and General Stores everywhere.

Write for catalogue.

No. 25
4 QUART
Japanned.
PRICE \$5.50.
4 sizes.
Tinned and Japanned.



Bone, Shell and Corn Mill

A necessity to farmers, poultrymen and all who keep poultry. A splendid general, all-round mill. Grinds poultry feed and makes bone meal fertilizer.

Grinds dry bones, oyster and other shells, corn, etc. Pays for itself in a short time. Size shown in illustration (No. 750, Price \$8.50, weight 60 lbs.) grinds 1 1/2 bushels corn per hour

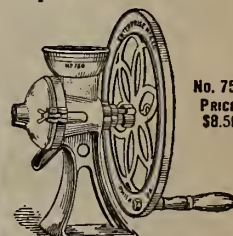
Look for the name "ENTERPRISE" on the machine you buy.

We also make other household specialties—all bearing the famous name "ENTERPRISE"—Coffee Mills, Raisin Seeders; Food Choppers; Fruit, Wine and Jelly Presses; Cherry Stoners; Cold Handle Sad Irons, etc., etc.

Ask for them at Hardware and General Stores.

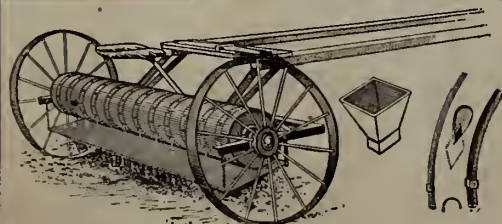
Illustrated catalogue on request.

No. 750
PRICE \$8.50



The "Enterprising Housekeeper" is a valuable book containing over 200 selected recipes as well as numerous kitchen helps. Sent anywhere for four cents in stamps. THE ENTERPRISE MFG. CO. OF PA., Dept. 27 Philadelphia, Pa.

A Low Price Lime Spreader



MAY WE SHIP YOU

A Ton of Lime and a Spreader ?

We desire to quickly introduce our LOW-PRICED SPREADER—simple, yet perfect—and would convince a neighborhood by shipping into it a sample machine and a ton of lime under our freight paid trial plan, which we will fully explain to you. Address KING WEEDEE CO., Richmond Va.

Watch the results from the use of lime properly distributed—(you waste half of it when shoveling it out). Our machine evenly and accurately distributes lime, plaster, fertilizers and fine compost in any quantity from 100 lbs. to 3,000 lbs. to the acre.

Takes lumpy lime, damp, cloddy fertilizers and distributes all evenly. Absolute Force Feed. A boy and a mule can handle it, and cover 8 to 10 acres a day.

When corresponding with our advertisers always mention Southern Planter.

ENQUIRERS' COLUMN.

All inquiries must reach us by the 15th of the month previous to the issue, or they cannot be answered until the month following.

Horse Ailing.

In the November issue of Southern Planter will you kindly give remedy for kidney trouble in horse? My driving horse passes very yellow or muddy water; does not seem to make water often enough, and when he starts to pass water has to wait some little time. Frequently he is slow and dull in movement. Appetite and general health good.

SUBSCRIBER.

Charlotte Co., Va.

There are so many different diseases affecting the kidneys that it is not wise to give treatment without the advice of a veterinarian. The cause of the trouble in your horse is probably having fed too long on green crops exclusively. These have large amounts of carbonate of lime in them which is not dissolved but passes off in crystals in the urine, causing the muddy appearance. Change his diet to hay and oats, or hay and corn, and give one ounce of saltpetre or one ounce of sweet spirits of nitre per day for a few days. These are simple diuretics which will cause the passage of more urine and thus carry off the accretions.—Ed.

Pecans.

What part of the State is best adapted to pecan growing for profit? What kind of Soil for good results? Age of trees usually planted, also price? What varieties are the most profitable? How many trees to the acre? At what age do they commence to give returns? What kind of treatment in regard to cultivation, etc.? Are they subject to any insect pest or disease; if so, is it hard to combat?

Any further information will be greatly appreciated.

F. R. JORDAN.

Virginia is too far north of the true Pecan belt for us to advise the planting of these trees in this State except experimentally. We are aware that there are isolated trees here and there in the State which are bearing, but we have never known an orchard of them to be planted here and succeed. Further south they are a success and are being largely planted. If you will write the Department of Agriculture, Washington, D. C., and ask them to send you the information they have published on this subject, they will no doubt do so, and you will thus get the best information available.—Ed.

Seeding Grass—Subsoiling—Cover Crops—Fertilizing the Corn Crop—Soy Beans.

I propose to put an old pasture, mostly weeds and broom sedge, into corn next year and then back into

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grass. Is it not best to plow it this autumn? Do you think sub-soiling will pay? I subsoiled ten acres last November and certainly got no return as far as the corn crop was concerned. My corn was no better and suffered as much from drought as corn in the next field which had not been subsoiled. Do you not think that plowing this pasture with three horses will give as good results as subsoiling?

You say a great deal about cover crops and the danger of washing out fertility. How can one plow late in the fall and use cover crops at the same time? This land cannot be finished before the middle or last of November, and rye planted then would not make sufficient growth to be of any use. I shall replot in March or April and use 320 pounds of slag phosphate to the acre with 200 pounds of bone meal.

I think it is quite wrong to say that it does not pay to fertilize for corn. If I don't fertilize I have to spend as much money as the fertilizer would cost in buying corn from my neighbors. If I fertilize I get the corn, but—and this is the main point—I get a good growth of crimson clover from seed planted at last cultivation of the corn and there is a quantity of vegetable matter to be turned under in preparing for the grass.

I want to add that after using cowpeas for three years I this year tried the soja beans and found them far superior. They are much easier to cure, the stock like them better and I got half as much again of hay from a field that once was in cowpeas.

Bedford Co., Va. FARMER.

Plow the land during the fall or winter. If the subsoil is a hard pan or a close retentive clay, we believe subsoiling advantageous. We have subsoiled scores of acres of land of this character and never failed to see improvement. It is practically the only way in which you can secure depth of soil for the roots to work in and the more they have of this the more food then can get. Another advantage is that subsoiling will certainly prevent washing. If the rain can get down into the soil as it falls it will not supersaturate the surface soil and cause it to wash away. All our galled red hills can be restored to fertility by this means. Of course, where you are breaking soil in the late fall and winter you cannot also grow cover crops, but when you can break in the early fall then a cover crop should always be sowed to conserve and add to the humus content of the soil. Bare soil is wasting soil almost invariably. If the land be well prepared by frequent working during the winter and the slag meal and the bone be well mixed in it should make a stand of grass if sowed as early in the spring as possible though we always prefer fall seeding, as this is less likely to be injured by a dry spring and summer.

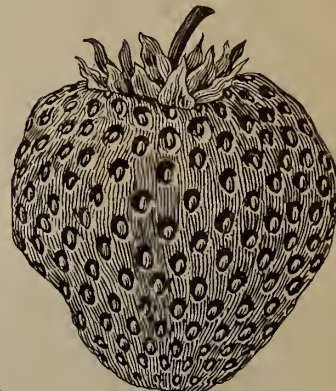
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October, November and March are the months to plant and we offer fine, well-rooted plants grown on new land, ready for immediate shipment, the cream of many varieties Excelsior the earliest, Lady Thompson beginning a few days after; Bubach, very large, ripening in mid season, and Aroma, large, and the most productive late sort. Price, 50 cents per 100; \$3 per 1,000.



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DeVilbiss Fruit Farm, Ft. Wayne, Ind.—Your spray is an absolute success. Twenty-five acres of my orchard was infested to a finish and I can't find a scale now. Only wish I had language to make it stronger.

W. C. and C. F. Toms, Hendersonville, N. C.—We used your spray with the greatest success. Our orchard of 3,000 trees is now practically free from

scale. We consider it the best remedy we have ever seen.

Large fruit growers report that our spray has accomplished more for them in one year than other sprays have in 8 or 10 years and at **one-half the cost of lime-sulphur**. The first cost of our spray is less than the cost of lime-sulphur, with none of the disagreeable features of that material.

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that I cannot afford to mark my fruit with Bordeaux,” says Mr. Geo. T. Powell of Ghent, N. Y., a grower of fancy apples. I have less scale and finer foliage than ever before.” REASON: Five years consecutive use of

“SCALECIDE”

cheaper, more effective and easier to apply than Lime-Sulphur. Send for Booklet, “Orchard Insurance.”

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If you want cheap oils, our “CARBOLEINE” at 30c. per gallon is the equal of anything else.
B. G. PRATT CO., MFG. CHEMISTS, 50 CHURCH ST., NEW YORK CITY.

As to fertilizing the corn crop, we have always said that corn rarely pays for the fertilizer applied to it. The increased crop almost invariably costs more than the increase is worth on the market. There are no doubt good reasons for applying fertility to a corn crop when the improved fertility of the soil is the object sought. We have never opposed this practice—on the contrary, we practice it ourselves to ensure a stand of crimson clover or cowpeas or both, but we do not expect the corn to pay for the fertilizer.

We have always maintained that soy beans are a more profitable crop to grow than cowpeas and are much less difficult to cure and, when rightly used, provide more nitrogen for the soil.—Ed.

Liming Land.

My land is on red clay subsoil and has never been limed, to my knowledge, certainly not in fifty years. I am able to procure lime as follows, laid on the land: Gas lime, \$3.50 per ton; stone lime, \$5.70; stone lime screenings, hot from the kiln, \$4.35; ground limestone, \$7.75; prepared Agricultural lime, \$13.50.

Which is best for corn? For small grain? For grass?

How, when and in what quantities (minimum) should it be applied?

JAMES S. BALL.

Halifax Co., Va.

The best lime to use on land for all purposes is burnt rock or shell lime, which should be 96 to 98 per cent. carbonate of lime. If you want the lime to plow down then the lime screenings will be as good as the stone, and cost less. If you want it to top dress grass then use the stone, as it slacks down better. In the screenings there are always hard under burnt or over burnt stones which will not fall with slacking at once. These eventually disintegrate in the soil when plowed under, but are objectionable on the top of the land in the grass. Gas lime is a product for which we have very little use. It is so charged with sulphur and the other impurities taken up out of the gas that it is poisonous to the soil and vegetation. If used it should be spread out to weather for several months before being applied. We once used a lot of it on a very foul piece of land full of wild vegetation. It killed all this off, and as we did not crop the land for some months afterwards, the poisonous effects had time to dissipate.

Lime is best applied in the fall, winter and early spring, thus giving it time to do its work in sweetening the soil and changing the mechanical condition before the crop is planted. Apply from one to two tons per acre. Set on the land in lumps of about half a bushel at a place and cover lightly with soil and leave for a week or ten days to slack and then spread with a shovel.—Ed.

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ENTRY FEE: Single Bird, \$1; Pens, \$3; Pigeons, 50 cents. Entries close November 25, 1909.

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Superior to Bone or Acid Phosphate for Alfalfa and Clover, and at one-fourth the cost. See editorial, June issue this paper, "Alfalfa in Eastern Virginia."

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Send \$2.50 for 1,000 assorted Plants. Excelsior, Klondyke, Lady Thompson and Aroma.
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PALE FACE SHELL HEAP CORN

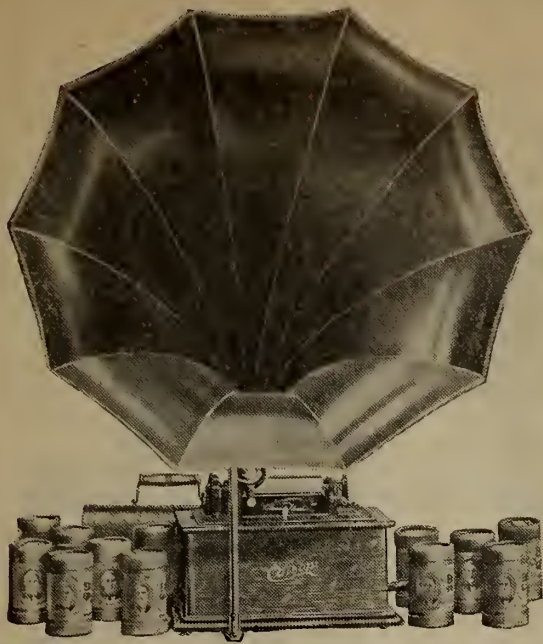


That's what the big chief would say could he watch how fast kernels rattle off in the Black Hawk Corn Sheller. Easy to run, strong, durable, shells 8 to 14 bushels per hour. Easily clamped on box, barrel or tub. Bearings chilled-iron. I give repairs free. Parts liable to break malleable iron. If hardware or implement dealer hasn't it, ask for price delivered. Made only by A. H. Patch, Clarksville, Tenn. Corn Shellers and Hand Mills only. Booklet Free. Agents Wanted.



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The latest style Edison Phonograph in our new outfit No. 10—this superb entertainer, Mr. Edison's latest, final improvement of phonograph—shipped

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Yes, free. I don't ask a cent of your money—I don't want you to keep the phonograph—I just want to give it to you on a free loan—then you may return it at my own expense.

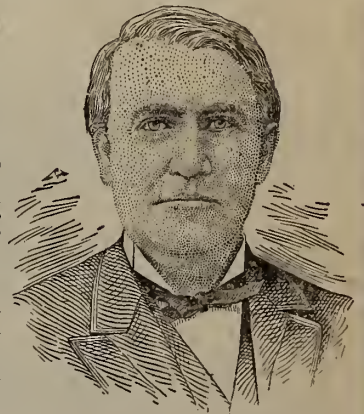
Read the Offer: I will ship you free this grand No. 10 outfit, Fireside Model, with one dozen Gold Moulded and Amberol records. You do not have to pay me a cent C. O. D. or sign any leases or mortgages. I want you to get this free outfit—the masterpiece of Mr. Edison's skill—in your home. I want you to see and hear Mr. Edison's final and greatest improvement in phonographs. I want to convince you of its wonderful superiority. Give a free concert; give a free minstrel show, music, dances, the old fashioned hymns, grand opera, comic opera—all this I want you to hear free of charge—all in your own home—on this free loan offer.

MY REASON—My reason for this free loan offer, this extra liberal offer on the finest talking machine ever made—see below.

MR. EDISON Says: "I Want to see a Phonograph in Every American Home."

The phonograph is the result of years of experiment; it is Mr. Edison's pet and hobby. He realizes fully its value as an entertainer and educator; for the phonograph brings the pleasure of the city right to the village and the farm home. Now, the new Fireside Edison Phonograph of our outfit No. 10, 1910 Model, is the latest and greatest improved talking machine made by this great inventor. Everybody should hear it; everybody must hear it. If you have only heard other talking machines before, you cannot imagine what beautiful music you can get from the outfit No. 10. This new machine is just out and has never been heard around the country. We want to convince you; we want to prove to you that this outfit is far, far superior to anything ever heard before. Don't miss this wonderfully liberal offer.

MY REASON I don't want you to buy it—I don't ask you to buy anything. But I do feel that if I can send you this great phonograph and convince you of its merits, of its absolute superiority, you will be glad to invite your neighbors and friends to your house to let them hear the free concert. Then, perhaps, one or more of your friends will be glad to buy one of these great outfits No. 10. You can tell your friends that they can get an Edison Phonograph outfit complete with records for only \$2.00 a month—\$2.00 a month—the easiest possible payment and, at the same time, a rock-bottom price. Perhaps you, yourself, would want a phonograph, and if you ever intend to get a phonograph, now is the chance to get the brand new and most wonderful phonograph ever made, and on a most wonderfully liberal offer. But if neither you nor your friends want the machine, that is O. K.; I simply want you to have it on a free loan, and perhaps somebody who heard the machine will buy one later. I am glad to send it on the free loan offer anyway. I will take it as a favor if you will send me your name and address so I can send you the catalog—then you can decide whether you want the free loan. There are no strings on this offer, absolutely none. It is a free loan, that is all. I ask not for one cent of your money, I only say if any of your people want to buy a phonograph, they may get one for \$2 a month, if they want it.



Now, remember, nobody asks for a cent of your money. I want every responsible household in the country, every man who wants to see his home cheerful and his family entertained, every good father, every good husband, to write and get these free concerts for his home. Remember, the loan is absolutely free from us, and we do not even charge you anything C. O. D.

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In this catalog you will find a complete list of music and vaudeville entertainments. You can pick out just the kind of records you want for the entertainment you want on this free loan in your own home. Get this catalog at once, then you can decide whether or no you want a free loan and when you want it. You can also decide just the music you want. Remember, I will appreciate it as a favor if you will give me the opportunity of sending you this latest style machine—the climax of Mr. Edison's skill—on this free loan offer. I will appreciate it especially if you will send me your name and address anyway right now, so I can fully and clearly explain our methods of shipping the Edison Phonograph on a free loan. SIGN THE COUPON TODAY. Do it right now.

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Lump Jaw—Crimson Clover—Ground Lime.

1. Describe lump jaw and give remedy.
2. How long will crimson clover seed keep and retain its germinative powers, and what time of the year can you get new seed?
3. Where can I get ground lime, and what price in 2,000 pound lots?
4. How long should elapse between applying lime and acid phosphate on land?
W. W. BAKER.
Prince Edward Co., Va.

1. Lump jaw is a local disease due to the formation of peculiar tumors in various regions of the body, more particularly the head. Its preferred seat is on the bones of the lower and upper jaw, on which a swelling appears in which are found one or more projecting tumors. These push their way outward and finally break through the skin as fungus-like bodies covered with thin sloughs. The proper remedy is to administer iodide of potassium in full doses once a day until improvement is noticed, when the dose may be reduced and given less frequently. A full dose is one and a half drams of the drug daily dissolved in a pint of water until improvement is noticed, which will usually be within eight days. Then decrease the dose to one dram. The drug will cause the animals to discharge from the nose, run at the eyes and often peel off the outer skin, but these results do not cause any serious injury to health and should give no uneasiness.

2. Three years. New seed can usually be bought in August or September.

3. We only know of one place in the State where ground limestone can be had—the Powhatan Lime Works, Strasburg, Va. We do not know the price.

4. Harrow the lime in and let lay a week or ten days and then the acid phosphate can be applied.—Ed.

Sows Coming in Heat.

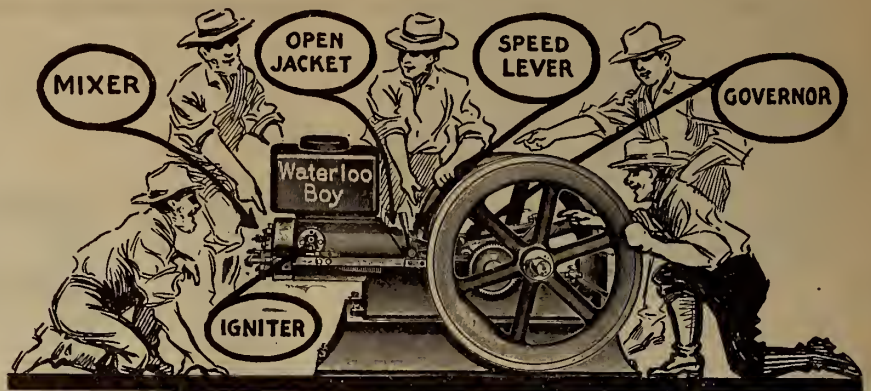
Will you please publish in your next issue a remedy to prevent open sows from coming into heat whilst fattening?
A SUBSCRIBER.
Lunenburg Co., Va.

We know of no means of preventing sows coming into heat whilst fattening except by spaying them, and we have not known this to be done, though we presume that it is just as feasible with a sow as with a heifer, upon which animal the operation is frequently performed.—Ed.

Eucalyptus Trees.

I notice in "The Pacific Monthly," published by the Pacific Monthly Co. of Portland, Oregon, a treatise on a new, fast-growing, hard-wood tree—the Eucalyptus (grown in California)—by F. A. Patter.

Kindly advise me through The Planter what you know or can learn of this industry. Whether or not the



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5 YEAR GUARANTEE

and it doesn't take the up-to-date farmer long to discover them and their value to him. It is the number of practical features embodied in an engine that determines the degree of satisfaction it will give to its owner. All gasoline engines have some good points, or there would be no sale for them and they would soon be taken off the market. Some engines have more good points than others, that's why some engines are better than others.

Waterloo Boy Gasoline Engines

have all the good points that go into any gasoline engine, besides many exclusive, patented features that increase their efficiency and durability; make them marvels of simplicity and wonderfully economical engines to operate. That's why we say the Waterloo Boy is the best engine for farm use.

You can buy a Waterloo Boy for less money than you will be asked for engines containing half of the good points we build into our engines. Besides we will send a Waterloo Boy to any responsible farmer and let him try it for thirty days on his farm doing whatever work he has to do. We will pay the freight both ways and return his money if after a month's use he cannot pick out the good points for himself—if he can't see that it is the one and only engine that will give him complete satisfaction.

Now, when you buy a gasoline engine you had better be sure that the engine you get was made by a concern that makes gasoline engines and nothing else. Our efforts are all directed toward making and keeping the Waterloo Boy the best engine in the world. We have no other interests—no side lines.

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Horace L. Smith, Gen. Agent,
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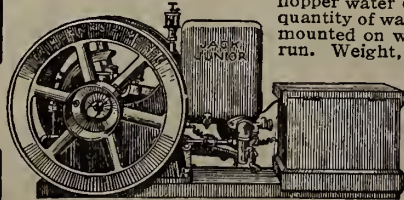
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Visitors to the City are cordially invited to visit us and make our bank their headquarters.



Planters National Bank

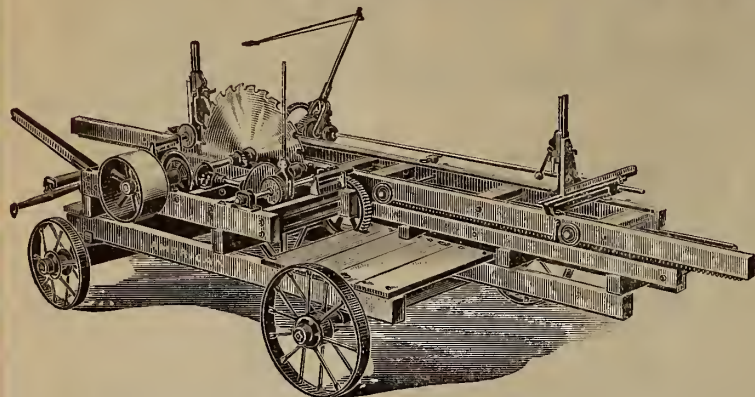
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Carriage, 16 ft. long. Feed Rack, 22 ft. long. Track, 40 ft. long, 3 sections. Mandrel, 23-16 in. diameter. Takes saws up to 52 in diameter. Two Head-blocks opening 32 inches. Variable Friction Feed. Ideal Ratchet Set Works, with Quick Receder. Total weight, 4,000 lbs.

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AMERICAN SAW MILL MACHINERY COMPANY
137 HOPE STREET, HACKETTSTOWN, NEW JERSEY

tree can be grown in this section—southwest Virginia. If so, where the seed or plants can be procured.

E. M. HILL.

Southampton Co., Va.

We believe that the Forestry Department of the Department of Agriculture has conducted some experiments with Eucalyptus trees in various sections of the country to ascertain their adaptability to our climate, but so far as we remember, they have only been found to succeed in California and the adjoining sections of the Southwest. If you would write the Forestry Department, Department of Agriculture, Washington, D. C., they would no doubt give you the information obtained.—Ed.

Crimson Clover Seed.

I would like you to let me know what is the best machine to use for saving annual clover seed. I want to make arrangements before next spring to save my own seed. I sow a great deal of annual clover.

J. L. CAMP.

Southampton Co., Va.

In this issue you will find an article describing how one of our subscribers saves his crimson clover seed. When saved in this way it is sown in the chaff. If you want to have clean, hulled seed you will have to thresh it with a clover huller, which you can purchase from the implement dealers.—Ed.

Improving Deep Red Land.

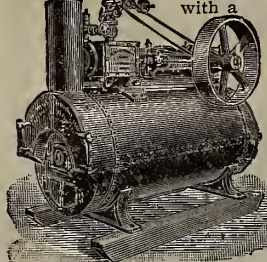
How can I improve deep red thin land? Thought I would plow in the fall and let freeze and then apply fresh horse manure. Am I right?

Noble Co., Ohio.

D. E. DAY.

After All, It's Steam and Steam Only

Nothing can take its place. It's cheap and you are sure you've got power when you want it. All the power you need for all purposes. Steam, too—it comes handy in the dairy and elsewhere. You can run a whole string of machines



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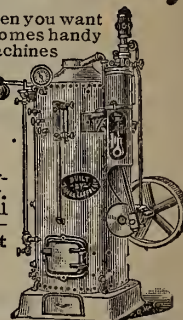
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CUTTING AND SHREDDING

All with one machine. "Ohio" Ensilage Cutters also make efficient shredders. Simply remove the knives and put shredder blades in their places. A few minutes' time, no additional speed and but slight additional power required. Double value at trifling extra cost.

"Ohio" Shredder Blades have projecting steel teeth—no two in succession travel in the same path. They split and tear corn stalks into a nicely shredded condition. Power, 2 to 15 h. p., according to size. Blower or carrier elevators handle material perfectly. Our 104-page catalog sent free on request. "Modern Silage Methods," 224 pages, 10c. Please mention this paper.

SILVER MFG. CO. Salem, Ohio.



Get This Rife Hydraulic Ram

If there is a stream, spring or pond near by and have running water wherever you want it.



Pumps Water With Water, works continuously without attention. No expense for power, nothing to get out of order. Raises water 30 feet for each foot of fall. For Home, Farm, Irrigation, and all purposes. Over 7,000 in use. Free Plans and Estimates furnished. Write Today.

RIFE ENGINE CO., 211 TRINITY BLDG., NEW YORK

TELL THE ADVERTISER WHERE YOU SAW HIS ADVERTISEMENT.

PARTS FIT TOGETHER

== AS IF SOLID ==

MANY ARTICLES ARE UNEXCELLED IN FINISH—They **LOOK GOOD**—But when the Final test is made, when the Article is Actually Tried out and gives Satisfaction, THAT is the end of the Law.

So It Is With THE WM. J. OLIVER IMPROVED

To the model used in its construction do we attribute the perfect operation of our plow in the field—Center Draught, Sloping Landside, Strains Evenly Distributed and no Part Bearing Any Burden, Save Its Own.

IT'S IN THE LANDSIDE



IT'S IN THE LANDSIDE

WHEN BOLTED TOGETHER IT IS PRACTICALLY ONE PIECE OF METAL

Strong Where Others Are Weak

Examine our LANDSIDE CONSTRUCTION closely; it is the greatest invention ever recorded by the patent office at Washington.

All parts of our Plow are interchangeable between Wood and Steel Beam Plows.

— WRITE TO US FOR FURTHER PARTICULARS —

The Wm. J. Oliver Mfg. Co.

KNOXVILLE, TENNESSEE.

In your section, where you have hard freezing weather, the fall plowing of the land will be very advisable, as the frost will then get into it and disintegrate it and make it work finely in the spring. After plowing apply the manure on the surface and work it into the soil when preparing for the crop in the spring.—Ed.

Worms in Sheep.

Mr. John E. Turner, of Prince George Co., Md., writes us that his sheep are not doing well and some are dying. He thinks the trouble must be worms, as they have many of the symptoms which we have often pointed out as indicative of this trouble—viz., a wasting appearance, colorless skin (paper skin), swelling at the throat, etc. He wants a remedy. Incidentally he states that a neighbor has a flock of sheep which eat all the tobacco they can get and that they are hearty and do well.

There is no doubt but that the sheep are suffering from stomach worms. When once a flock becomes infested with this trouble it is difficult to get rid of it, as the pastures become infested and so carry the worms to the lambs and healthy sheep. The best remedy is tobacco. Let the sheep and lambs have tobacco leaves (the trash or lugs are as good as the best for this purpose) fed to them every day. Put the tobacco in a box and sprinkle with salt water and they will soon learn to eat it. Lambs should be kept off the pastures on which the old sheep have run, during the later spring and summer months and thus preserve them from infection. A field of crimson clover or red clover or cowpeas should be reserved for the lambs to run in during the spring and summer. We have had reports from many flock owners who have used tobacco with the greatest satisfaction. The worms are found in the fourth stomach and pass out laden with eggs in the dung and are taken up by the lambs and sheep in late spring and summer. There is no danger from infection in winter, as the cold kills the worms in the dung or on the grass.—Ed.

Broom Making.

Please let me know in your next issue of the Southern Planter where I can get machinery to fit up a broom factory. W. C. SNYDER.
Warwick Co., Va.

We do not know who makes or sells broom making machinery, but we presume that if you inquire of the implement dealers advertising in our columns they will, any of them, be able to get it for you.—Ed.

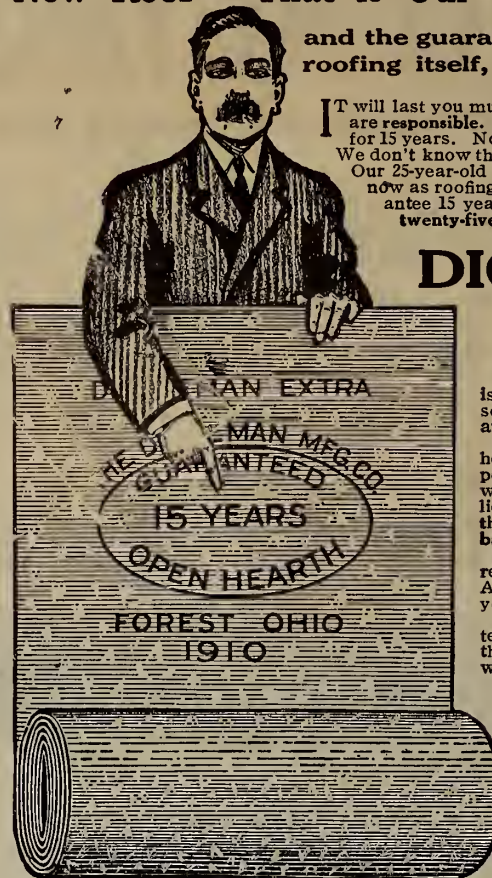
To Cure Warts on Horse.

A subscriber writes us that he has found that by rubbing warts every day with castor oil they will disappear.—Ed.

Fifteen Years' Service Without Painting—Or a New Roof—That is Our Guarantee to You—

and the guarantee is stamped right on the roofing itself, with the year you buy it.

It will last you much longer than that, but for 15 years we are responsible. Think of that—lay your roof and forget it for 15 years. No expense—no repairing—no renewing. We don't know the wearing possibilities of our own roofing. Our 25-year-old roofs are as serviceable and look as good now as roofing laid five years ago. We make our guarantee 15 years to be safe, but we know it is good for twenty-five years.



DICKELMAN EXTRA

Galvanized Metal Roofing

is the only metal roofing made which is so scientifically galvanized that it can be guaranteed against rust.

Only the toughest, most pliable, open-hearth stock is ever used. This metal is peculiarly porous and long-fibered, so that when it is put into the galvanizing pots the liquid spelter does not veneer but penetrates this fiber and amalgamates with the metal base, thus protecting it forever.

Dickelman Extra is easily laid. It is already turned and adjusted for end locks. All you have to do is to place together, and you have a perfect double seam.

Try one of our samples, test it and then test some ordinary galvanized roofing. Buy the one which does not flake or crack. It will be Dickelman's. Write today for

Free Samples and Book on Roofing

The book will show you how you can save money on your roofing, how to lay roofing easily, how to avoid repair bills. Your dealer will know about Dickelman's. Ask him. But let us send you this free book and sample. Write today.

THE DICKELMAN MFG. CO.
68 Gormley St., Forest, Ohio

TELL THE ADVERTISER WHERE YOU SAW HIS ADVERTISEMENT.

Nothing else gives such life and staying quality to a roofing as Trinidad Lake asphalt.

Genasco Ready Roofing

is made of Trinidad Lake asphalt and gives lasting resistance to sun, air, rain, heat, cold, and fire. It is mighty important to know what your roofing is made of.

Be sure you see the Genasco trademark and get the roofing with a thirty-two-million-dollar guarantee. Mineral and smooth surface. Write for the Good Roof Guide Book and samples.

THE BARBER ASPHALT PAVING COMPANY



Largest producers of asphalt, and largest manufacturers of ready roofing in the world.

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It Pays in Comfort, Cash and Health to Wear Ruthstein's STEEL SHOES!

Worn With Wonderful Satisfaction by Workers Everywhere!

PATENTED
Dec. 4 1906
Others
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FREE

Send for our Book, "The Sole of Steel"—or, better yet—send for a pair of Steel Shoes on the Order Blank below.

**GOOD-BYE TO CORNS AND BUNIONS!
NO MORE SORE, ACHING FEET.**

You will not suffer from corns, bunions, callouses and blistered, aching feet if you wear Steel Shoes. They are shaped to fit the feet and need no "breaking in." Easy on—easy off. No warping, no twisting, no curled-up soles. The rigid Steel Soles force the uppers to keep their shape. They rest the feet by affording support exactly where it is needed.

Don't torture your feet in hard, twisted, warped, leaky, shapeless leather-soled shoes. Don't sweat your feet and make them tender by wearing hot rubber boots, felt boots or arctics.

SAVE \$5 TO \$10 YEARLY!

As one pair of Steel Shoes will outlast three to six pairs of leather-soled shoes or at least three pairs of rubber boots, it is easy to see that the saving in shoe bills is great. At least \$5 to \$10 a year!

SAVE DOCTOR'S BILLS.

Steel Shoes pay for themselves over and over again in the saving of medicine and doctor's bills. They prevent sickness.

Wear Steel Shoes and you need not suffer from Colds, Rheumatism, Neuralgia, Lumbago, Stiffness of the joints and other troubles and discomforts caused by cold, wet feet. Keep your feet always warm, dry and comfortable in Steel Shoes.

Order Blank for Steel Shoes.
Steel Shoe Co., Dept. 255, Racine, Wis.

Gentlemen:—I enclose.....
for \$..... in payment for....
.....pair Steel Shoes.
Size.....
Name.....
Town.....State.....
County.....R.F.D.....
Dealer's name.....

EASY ON THE FEET! EASY ON THE POCKET BOOK!
One Pair Outlasts 3 to 6 Pairs of Leather Soled Shoes

Steel Shoes are setting the swiftest pace in sales of any work shoes in existence. They are so strong and durable, so easy and comfortable that farmers and all classes of workers are simply astonished. One pair will outwear from three to six pair of the best leather soled shoes you can buy.

There's the utmost limit of wear in every pair of Steel Shoes—and comfort as long as you wear them. They are lighter than all-leather work shoes with thick and clumsy soles. They need no repairs! They are absolutely waterproof and will keep your feet warm, dry and comfortable in the coldest weather, in mud, snow or slush up to your shoe-tops. Do you wonder that many thousands of workers on the plantations will wear no other kind of work shoes.

Absolute Protection from Colds, Rheumatism, Sore Throat, Stiffness, Discomfort

Steel Shoes are as waterproof as Rubber Boots, and keep the feet warm and perfectly dry, regardless of rain, snow, slush or mud—no matter how cold the weather. They defy cold and wet, protecting the feet even from dampness and chill.

Nine-tenths of all cases of rheumatism, colds, and sore throat result from wearing all-leather shoes which leak or absorb moisture. Pneumonia often develops as the direct result of cold, wet feet. Why take chances when Steel Shoes offer real protection, with comfort thrown in for good measure?

HOW STEEL SHOES ARE MADE—STEEL SOLES AND SIDE—WATERPROOF LEATHER UPPERS—ADJUSTABLE STEEL RIVETS IN BOTTOMS—HAIR CUSHION INSOLES.

Steel Shoes solve the problem of the Perfect Work Shoe for all time to come.

The soles of Steel Shoes and an inch above the soles are stamped out of a special light, thin, rust-resisting steel. One piece of seamless steel from toe to heel. As a further protection form wear and a means of giving a firm foothold, the bottoms are studded with adjustable steel rivets.

Practically all the wear comes on these steel rivets. When steel rivets wear down, you can instantly replace them with new rivets. Steel Shoes never go to the Repair Shop, for there's nothing to wear but rivets. The cost is only 30 cents for 50 extra steel rivets. No other repairs are ever needed.

The uppers are made of the very best quality of pliable waterproof leather, and firmly riveted to soles. There is greater strength and longer service and more foot comfort in Steel Shoes than in any other working shoes in existence. It's in the steel and the pliable leather, and the way they are put together.

The thick, springy Hair Cushion Insoles are easily slipped out for cleansing and airing. These insoles absorb perspiration and foot odors—absorb the jar and shock when you walk on hard or stony ground. They keep your feet free from callouses, blisters and soreness.

MADE IN SIZES 5 TO 12; 6-INCH, 9-INCH, 12-INCH AND 16-INCH HIGH STYLE

Steel Shoes are made with tops of different heights, suitable for every purpose, from general field work to ditch-digging.

Steel Shoes, 6 inches high, \$2.50 a pair, are better than the best all-leather \$3.50 shoes.

Steel Shoes, 6 inches high, with extra grade of leather, \$3.00 a pair, excel any \$4.50 all-leather shoes.

Steel Shoes, 9 inches high, \$3.50 a pair, are better than the best all-leather \$5.00 Shoes.

Steel Shoes, 9 inches high, with extra quality of leather, \$4.00 a pair, are better than the best all-leather \$5.50 shoes.

Steel Shoes, 12 inches high, \$5.00 a pair, are better than the best all-leather \$6.00 shoes.

Steel Shoes, 16 inches high, \$6.00 a pair, are better than the best all-leather shoes regardless of cost.

A STYLE OF STEEL SHOE FOR EVERY USE.

We strongly recommend the 6-inch High Steel Shoes at \$3 a pair or the 9-inch High Steel Shoes at \$4 a pair for general work under all conditions.

For all classes of use requiring high cut shoes, such as ditching, lumbering, hunting, etc., our 12 inch or 16 inch high steel shoes are absolutely indispensable. They give the **utmost possible protection.**

Fill out, tear off and mail the Order Blank TO-DAY.

STEEL SHOE CO., Dept. 255, Racine, Wis.

BIG CUT ON QUAKER CITY FEED GRINDING MILLS PRICES

THIS IS THE QUAKER CITY FAMILY OF GRINDING MILLS
BUILT IN THE SAME PLACE AND BY THE SAME PARTY SINCE 1867



11 Sizes—22 Styles
From Hand to 20-Horse Power

SEND your name for our Big Book and then own the World's Standard Grinder of 40 years' success, on our **big cut price** to you, this season, direct from the factory. No extra charge for 1910 improvements—Grinds fastest—Takes least power—Can be easily run by hand—Always ready—Saves price in short time—Grinds soft, wet or dry ear corn—shelled corn—all grains, separate or mixed—grinds coarse, medium or the finest table meal. We have cut out Jobbers, Retail Dealers, Middlemen of all kinds. We come direct to you this year, the user, and offer you, on the most liberal terms you could wish, the **best grinder built and at the factory price.** We need hardly argue the **quality** of Quaker City Mills. They have been the standard for over 40 years.

Besides, we are offering to send one to you on trial, without trying in any way to tie you up to keeping it if it isn't satisfactory. "Claims" are a drug on the market. We want you to see that Quaker Quality means faster grinding, better

prepared products, less trouble—more satisfaction and more profit from your investment. We want you to see that a Quaker City Mill has the widest range of usefulness—that it is the best adapted to all kinds of grinding—soft and wet corn as well as dry. Let us quote you the price to you our direct-selling plan means. Although Quaker City Mills have added improvements for 1910, which put them still farther ahead of any other mills—although the price would have to be higher than before, if sold through dealers—yet you can get one now for less, much less, than ever. And we pay the freight, remember. We take all the risk. We ask for no money in advance, no bank deposit, nothing but that you try the mill. Here is as liberal a proposition as you could get from any home dealer and we know that we offer better value. Let us prove it at our expense.

Sent to You for Free Trial Freight Paid
Sent No Money 11 Sizes—22 Styles—From Hand-power to 20-H.P.—to Choose from

Send Name for Big Feed Mill Book FREE Write Today

THE STRAUB CO., 3737 FILBERT STREET, W. PHILADELPHIA, PA.

Lime for Land.

Please let me know through the Southern Planter if the ground lime stone rock has the same effect on the soil as the burnt rock. If so, will the same amount per acre be sufficient say one ton per acre? H. B. P. Bath Co., Va.

It requires much more of the ground unburnt lime to effect a sweetening of the soil than it does of the burnt lime. Nor is the unburnt lime so effective in changing the mechanical condition of the soil quickly as the burnt. On the other hand, the ground rock is less destructive of the vegetable matter in the soil. If the land is heavy and very sour or full of coarse vegetable fibre, then the burnt lime is the best to use. Whilst from one to two tons to the acre of burnt lime is a good dressing, twice or three times this amount of the ground rock should be used. The ground rock is, or ought to be, much less costly per ton than the burnt lime. The ground rock is more lasting in its effects, but much slower in effecting its work.—Ed.

Seed Corn Selection.

I wish you would let me know which ear of corn is the best to save when there are two ears on a stalk, the bottom ear or top ear. I have always been saving the bottom ear, but I have heard a good many arguing in favor of the top ear. J. L. CAMP. Southampton, Co., Va.

Where the object is to secure a shortening of the stalk, then the

Don't Go to the Spring or Well Have the Water come to You

For over twenty years we have been installing successfully, complete water supply systems, and they are performing their good work to-day.

With our force of experienced workmen, we are better prepared to supply your needs in this direction than any concern south of New York.

We make a specialty of supplying Country Homes with pure, fresh water, and at a moderate cost.

We are not tied down to any system, but are prepared to install the outfit which is best adapted to your particular needs. We are largest house in the South, dealing in water supply outfits, Pumps, Windmills, Gasoline Engines, Rams, Pressure Tanks, Cypress Tanks and Towers.

Catalogue and prices on any of the above will be sent on request.

Sydnor Pump & Well Co., Inc.

Department "B," Richmond, Virginia.

Double Saving till Nov. 15th

Vehicle bargains in our Special "KEEP BUSY" Sale.

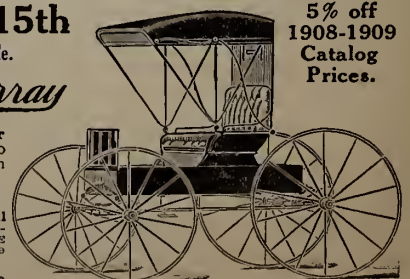
Even at regular prices you will save money if you buy now. Because leather, rubber and other materials are rapidly advancing in cost—and next year's prices will be higher.

Buy before the advance—at LESS than regular prices—you make two savings in one. In order to keep all of our force employed during the quiet season at full pay we will allow, if you mention this paper

5% off 1908-1909 Catalog Prices

on all orders sent us before Nov. 15, 1909. This applies on all Murray buggies, phaetons, surreys, pony vehicles, harness, saddles, etc. without reservation of any kind. ORDER NOW AND SAVE MONEY. Send for catalog. Or if you have catalog ORDER at once and get a high grade Murray vehicle at a bargain.

The Wilber H. Murray Mfg. Co., 321-7 E. 5th St., Cincinnati, Ohio



5% off
1908-1909
Catalog
Prices.

Page Fence Outlasts Them All!

Look Out for "Fads" and "Freaks" in Wire Fences!

Page Woven Wire Fence was introduced over a quarter of a century ago. Within that time, many "Fads" and "Freaks" in wire fencing have come and gone. Page Fence is here to **stay**. It stands the test. It gives the **service**. It has the **record**. You don't **experiment** when you buy it. The **wear is there!** It's got the high carbon wire that **stands the strain**. It's got the **knot** that holds. The wonderful Page Knot—**wrapped three times** around the horizontals and a **part of the fence itself**. No loose ends to rust, catch or pull wool.

A Sample of Page Fence FREE!

Send the "Show Me" coupon today and get a free sample of the strongest wire in existence. Its great strength and its high tension coil give it the utmost stability and elasticity. It will



"give and take," without breaking or sagging. You can run a traction engine over Page Woven Wire Fence and it will spring back to position instantly. It withstands severest shocks. No stampede of stock can break it. It is absolutely **uniform in quality**. It can be taken down and restretched any number of times without losing its elasticity. It is **50 per cent stronger** than common wire and the galvanizing **50 per cent heavier**.

Ask for the "Jubilee" Edition of Page Fence Catalog

This handsome book is issued in honor of the Quarter Centennial of Page Woven Wire Fence. Gives immensely valuable information on wire fence for every purpose. Takes you through our immense steel mills and wire factories and describes all the styles of Page Fence. A Panorama of Pictures! The best book on wire fence ever written!

Don't buy wire fence at any price until you see the actual sample of Page Woven Wire Fence and read this book. Send the "Show Me" Coupon right away and get everything by return mail.

PAGE WOVEN WIRE FENCE CO., Box 219B ADRIAN, MICH.

"Show Me" Coupon

Page Woven Wire Fence Co.
Box 219B, Adrian, Mich.

Please send Free Sample of Page Woven Wire Fence and "Jubilee" Edition of Page Fence Catalog.

I own _____ acres and am interested in
 Stock Hay Fruit Grain Poultry
 (Put check mark in proper squares.)

Name _____

Town _____

State _____ R.F.D. _____

proper ear to save is the bottom one. If this object is not desired particularly, then save the best ear, whichever it may be.—Ed.

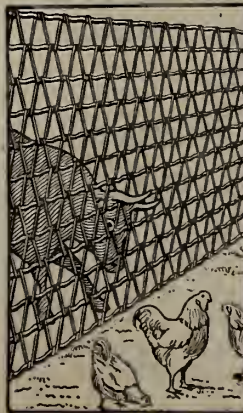
BOOKS.

New World Science Series. Primer of Sanitation. Being a simple work on Disease Germs and how to fight them, by John W. Ritchie, Professor of Biology, College of William and Mary, Virginia. Illustrated. Published by the World Book Company, Yonkers-on-Hudson, New York. Price, 50 cents; mailing price, 60 cents. This is an exceedingly interesting and valuable book, written in the most simple language with the greatest clearness of definition and fully illustrated. It should be in the hands of all the people who would, if they only give heed to its advice, be enabled to escape from most of the death dealing germ diseases which are such a great scourge in our communities.

Prince George Co., Va., Oct. 11, 1909.

I think the Southern Planter is the best paper of its kind I ever read.
H. T. BELCHES.

STRONGEST FENCE MADE



When you buy our High Carbon Coiled Spring Fence you buy strength, service and durability combined. Twenty years of experience—hard knocks, has taught us that the best fence is made from heavily galvanized Coiled Spring Steel Wire

CLOSELY WOVEN FROM TOP TO BOTTOM

Our Fence is so closely woven that small pigs cannot "wriggle" through it. So strong the vicious bull cannot "faze" it. We have no agents. We do not sell to dealers but sell direct to user

AT WHOLESALE PRICES FREIGHT PREPAID

Coiled Wire provides for expansion and contraction and prevents sagging between posts. Every pound of wire in our fence is made in our own wire mill from the best high carbon steel. We give

30 DAYS FREE TRIAL

That our customers may be sure they are satisfied. We have a full line of **FARM AND POULTRY FENCE**. Our Wholesale Prices will save you money. Write today for our 40 page free Catalogue.

COILED SPRING FENCE COMPANY, Box 52, Winchester, Indiana.

When corresponding with our advertisers always mention Southern Planter.

Bedford Co., Va., Sept. 10, 1909.
I could not get on without the Southern Planter, which fact must be an old story to you.
MRS. M. A. CROCKETT.

Greensville Co., Va., Sept. 13, 1909.
I must say that the Southern Planter is the best farm paper I have come across yet.
ALEC. MACPHEE.

WASHINGTON NOTES.

The Morgan Horse.

If there is any animal which is the friend to the small farmer it is the Morgan horse, which, not so long ago, made good from drawing the entire family to church on Sunday to hauling the big loads of hay from the meadows on a week day. In 1904, the late Senator Redfield Proctor, Chairman of the Senate Committee on Agriculture, called the attention of officials of the Department of Agriculture to the necessity of saving the Morgan horse from extinction.

Morgan breeding was arranged for in co-operation with the Vermont Experiment Station in the following year on the farm of the Station, but no purchases were made until June, 1906, when seven mares and two fillies were purchased from various persons in Vermont by Mr. Cassius Peck, of the Vermont Station, Professor Curtiss and George M. Rommel, Animal Husbandman of the Bureau of Animal Industry. In making the selections for the Morgan stud, the effort was made to get the true Morgan type with an increase in size and quality over that possessed by the old Morgan. However, type was not sacrificed to size. After this purchase in Vermont two mares were purchased in Kentucky as an experiment, the idea being based on the belief that a careful outcross would give increased size and quality without being violent and likely to destroy desirable type characteristics. The Kentucky purchase caused considerable comment on account of its novelty, one critic going so far as to say that the Department was attempting to restore the Morgan type by the same method used to destroy it. The officials of the Department claim, however, that if the Kentucky breeders of fifty years ago found it to their advantage to go to Vermont for Morgan horses of good type to use on Kentucky stock, and if the use of those horses proved valuable, two things were made clear. First, that the Morgan blood is of the greatest value to the horse industry of the country; and, second, that the restoration of the Morgan can be greatly furthered by taking back to Vermont and other New England States some of the best of the descendants of the original New England stock and assisting in restoring the system of breeding to type which was abandoned with the development of the speed-at-any-cost idea.

The stallion, General Gates, and a filly out of one of the original mares were purchased July 1, 1907. General Gates was purchased after due consideration; the selection was made not only on his own individuality as a modern Morgan, but on his ability as a sire of the type desired. Mated to mares of various types, he produces foals that are easily recognizable as being sired by him. His son, Shakespeare, was the champion Morgan stallion of all ages at the Louisiana Purchase Exposition, and his daughter, Carrie Gates (now owned by the De-

"CUTAWAY"



**BIG
HAY
CROPS**

**THE
LABOR
SAVERS**

**EASY ON
THE TEAM**

DISC TOOLS

**KEEPS
LAND TRUE**

MAKES EVERY ACRE YIELD BETTER CROPS

Intense cultivation is always profitable, but when Cutaway Disc Tools are used every crop is increased 25% to 50%.
Cutaway Tools do not cost any more than any other first-class implements, but they do better work, and do it easier than many of the so-called high-grade tools. When you buy a Cutaway you buy the best.
The Cutaway Plow will plow the hardest baked land and make good seed bed, drill and sow the seed and finish complete.
The Cutaway Harrow will cut and reduce the toughest sod to plant food quickly without aid of a plow.
The Double Action Cutaway Harrow, with a team of medium horses, can move 15,000 tons of earth 1 foot in a day. These Harrows keep the land true; all others run in the half lap. The jointed pole takes all the weight off the horses' neck.
Don't buy an implement of any kind until you have seen our Booklet, which describes 120 sizes and styles of Cutaway Tools. Send for it to-day. It's FREE.
CUTAWAY HARROW CO., 861 MAIN ST., HIGGANUM, CONN.

CONCERNING THAT ROOF

Write us for prices on our products

We carry in stock at all times

EVERYTHING for the ROOF

PAINTED AND GALV. V. C. AND CORRUGATED
SHEETS; TIN PLATE IN BOXES AND ROLLS;
RUBBER ROOFING UNDER THE FOLLOWING
BRANDS:

Victoria Rubber

Monarch Asphalt

Reliance Guaranteed

Lowest Market Prices without sacrifice of Quality

VICTORIA METAL CO., Inc.

1007-9 E. Canal St.

RICHMOND, VA.

partment), was first at that show for two-year-old mares. Men who were well acquainted with Vermont Black Hawk, one of the greatest Morgan horses of his time, declare that General Gates resembles him to a remarkable degree.

The work in Vermont was given a

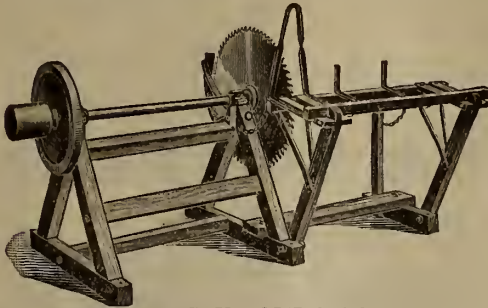
great impetus early in 1907 by the presentation to the Department by Mr. Joseph Battell, of Middlebury, Vermont, of a one hundred acre farm on which the work could be carried on to better advantage than on the farm of the Vermont Experiment Station at Burlington, where the soil is

THE IMPLEMENT COMPANY

1302 East Main St., Richmond. Va.

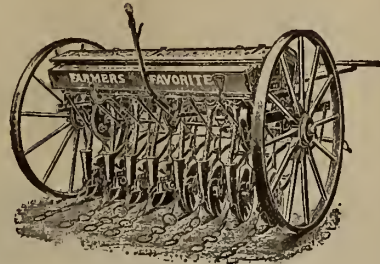
Headquarters for the best in FARM IMPLEMENTS.

Implements that work easy and wear well are the kind we sell. Our Descriptive Catalogue is one of the best and most complete of implement catalogues. Every Farmer should have a copy. Mailed free on request.



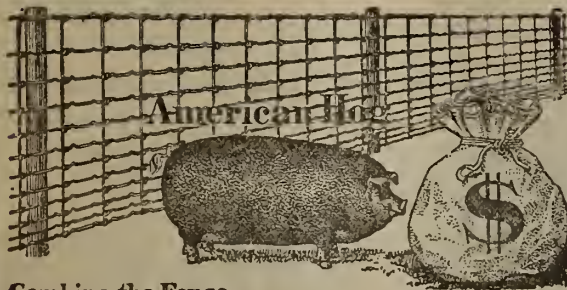
AMERICAN POLE SAWS.

For cord wood or long poles. Furnished with balance wheel beneath frame if so wanted.



Blekford & Huffman Farmer's Favorite Grain Drills are built to wear, to sow accurately and to satisfy every user. The Fertilizer distributor handles accurately any quantity of fertilizer from 55 to 960 lbs. to the acre. Each drill is furnished with special gear wheels for planting corn and beans in rows any desired distance.

American Fence

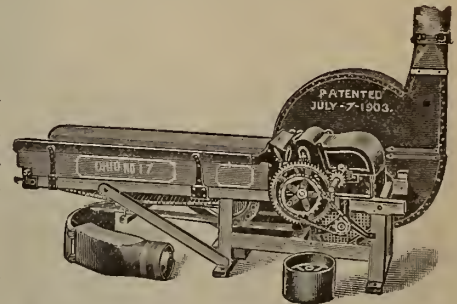


Combine the Fence and the Hog and get the Dollars

American Dollars

OHIO FEED AND ENSILAGE CUTTERS.

For hand or power. Furnished with or without Carrier or Blower. Special catalogue telling all about them, sent free to any address.



Buckeye Feed Mills and Powers, for grinding ear corn or small grain. The best mill for dairymen.

It leads all others in fast grinding, in lightness of draft, in strength, in durability and especially in being the best 2-Horse Power for operating Feed Cutters, Corn Shellers, Wood Saws, or any other light running machinery.

GALVANIZED HEAVY GAUGE V-CRIMP ROOFING.

Makes the most economical and durable roofing known. Never requires painting or any attention after laid and requires no tools except a hammer to put it on.

Heavy gauge painted V-Crimp and also best grades of rubber roofing in stock at lowest prices.

THE IMPLEMENT CO.,

1302 East Main Street,
RICHMOND, VA.

Peerless Gasoline Engines, Farquhar Engines, Saw Mills, Ellwood Poultry, Rabbit and Garden Fencing, Mandy Lee Incubators and Brooders, Iron Age Farm and Garden Tools, Farm Wagons, Buggies, Harness, Barb Wire, etc.

very sandy and not entirely suited to horse breeding. Since the Department acquired the property considerable fencing has been done, paddocks have been built and the buildings standing at the time the gift was made, remodeled and repaired. All the horses are now located at this farm, the plant at the Vermont Station being held in reserve as a possible sub-station in the future.

"The aim of the stud at Middlebury," states Mr. George M. Rommel, Animal Husbandman of the Department of Agriculture, "is to preserve the Morgan type at its best, keeping the splendid conformation, spirit and endurance for which these horses are famous, and eliminating tendency to coarseness, heavy withers and low backs. A careful effort will also be made to improve the action by getting away from the chop-piness and irregularity in gait and particularly by eliminating the tendency to pace and mix gaits. Size will be increased carefully by selection, but it is not our purpose to make the Morgan a big horse. A size ranging from 15.1 to 15.3 hands is sufficient, with about 15.2 as the ideal. However, this will not by any means disqualify a 15-hand horse or one even somewhat smaller, provided he has desirable characteristics of conformation, quality and action. It should be clearly understood that the work with the Morgans is not to be merged

into that with the American carriage horse. Although the Morgan has always been and probably always will be a prime factor in the production of carriage horses, the type should be kept distinct."

Farms in New York State.

Secretary Wilson, of the Department of Agriculture, believes in first-hand information. In speaking of a recent trip through New York State, he stated: "It as a beautiful country that we passed through, but the farms generally did not show prosperity. I saw hardly any sheep on the hillsides. Next to the cow the sheep is the most profitable domestic animal. Many of the districts looked

depopulated. We saw plenty of children in the villages, but few in the rural regions. The country looks deserted. In fact, interest in agriculture appears to have declined in New York State to a great extent.

"Sixty thousand Americans have gone to Canada and taken \$80,000,000 with them to buy wheat lands in Canada. They could do better to take these old farms here and manage them on modern methods. I cannot see whatever started folks away from these farms. Why, last year 8,000,000 bushels of potatoes were imported into New York State. That should not be. Good profit can be made on any of the farms with potatoes at 50 cents a bushel."


HERCULES Steel Stump Machines

CAST IRON


Strength to the square inch 16,000 pounds

STEEL

STRENGTH TO THE SQUARE INCH 120,000 LBS.



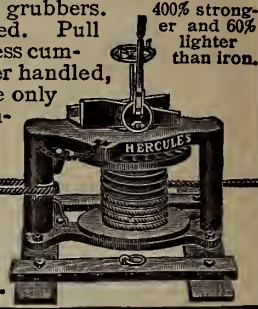
THIS SQUARE REPRESENTS THE POWER OF AN IRON STUMP PULLER



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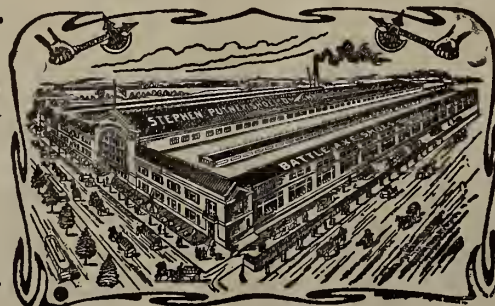
HERCULES MANUFACTURING CO.,
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Solid Made and
Made to Stand
The Wear



HIGH QUALITY
RIGHT STYLE

Comfortable Fit
Long Wear
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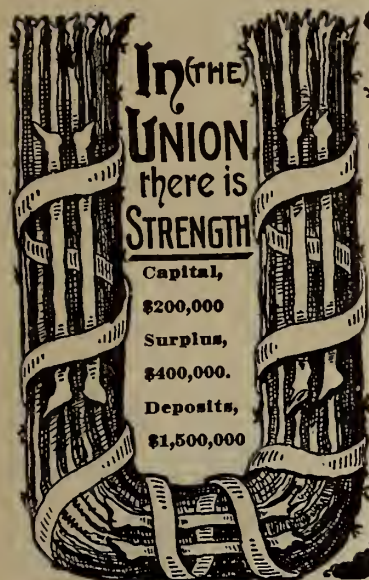
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Berro, 41821, trotter, bay horse, 4, by Bingara, son of Bingen, 2:06 1/4, dam Keshena, by Kremlin, 2:07 3/4. Berro won gold medal at Virginia State Fair in 1908 and 1909.

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S. C. RHODE ISLAND REDS, "BLUE Ribbon" strain; extra fine cockerels for sale. Eggs for sitting at all times. SUNCREST POULTRY COMPANY, Highland Park, Richmond, Va.

A New England observer notes that birds receive far more protection today than forty years ago. A market report of 1867 commends the robin as fine and delicate eating through the months of September and October. The brown thrasher, hermit thrush, cedar bird, and other songsters are extolled for food purposes, while the meadow lark is called almost as good as quail. All these were for sale in their section in Boston, New York and Philadelphia. Now their discovery would mean the arrest of their possessors.

GUY E. MITCHELL.

Detailed Index.

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CLUBBING LIST

In this list will be found prices on papers, magazines and periodicals which are most called for by our readers. We have club rates with nearly all reputable publications, and will quote them on request.

DAILIES.

	ALONE	WITH S. P.
Times-Dispatch (7 Nos.)..	\$6 00	\$6 00
Times-Dispatch (No Sun.)	4 00	4 00
News-Leader	4 00	4 00
Richmond Journal	3 00	3 00
Baltimore Sun.....	3 00	3 40

THRICE A WEEK.

The World, New York....	1 00	1 25
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WEEKLIES.

Times-Dispatch	1 00	1 25
Southern Churchman.....	2 00	2 25
Central Presbyterian....	2 00	2 25
Harper's Weekly.....	4 00	4 00
Breeders' Gazette.....	2 00	1 50
Country Gentleman.....	1 50	1 75
National Stockman	1 00	1 00
Hoard's Dairyman	1 00	1 25
Kansas City Star	25	60
Chattanooga News and Farm Journal	50	50
Memphis News-Scimitar..	50	75
Cotton Journal.....	1 00	1 00

SEMI-MONTHLY.

Standard (Poultry).....	1 00	60
Kimball's Dairy Farmer..	50	75

MONTHLIES.

Harper's Magazine.....	4 00	4 00
Review of Reviews.....	3 00	3 00
The Century.....	4 00	4 25
St. Nicholas.....	3 00	3 25
Lippincott's	2 50	2 50
Scribner's	3 00	3 25
Virginia Magazine.....	1 00	1 00
American	1 50	1 50
Cosmopolitan	1 00	1 35
Everybody's	1 50	1 75
Munsey	1 00	1 35
Argosy	1 00	1 35
The Strand.....	1 20	1 50
Success	1 00	1 20
Woman's Home Companion	1 25	1 50
Delineator	1 00	1 40
Field and Stream.....	1 50	1 50
Reliable Poultry Journal..	50	75
Commercial Poultry.....	50	75
Industrious Hen.....	50	75
Poultry Success	50	75
Blooded Stock	50	65
Successful Farming.....	50	60
Southern Fruit Grower...	50	85
Shepherd's Criterion.....	50	75

When two or more publications are wanted, the price for them in most instances can be found by deducting 50 cents from "price with Southern Planter."

We cannot, under any circumstances, furnish sample copies of other publications.

We will cheerfully quote our best price on any list of publications submitted to us.

"Jim, you should have a McVICKER like mine. It's the Simplest Engine Made"

"I haven't had much experience with Gas Engines, Henry, tell me why you recommend the McVicker."

"Well, in the first place, it is so simple to operate.

"It has only 1/2 the parts of any other engine made, and therefore it is the easiest to understand and to run. There are no intricate cams, ratchets, tumbling rods or other complex and delicate gear to get out of order and need adjustment and tinkering. I just start my McVicker going, and it requires no further attention than supplying fuel and oil.

"Then it will stand 50% more overload. Unlike most four-cycle engines (the best type, by the way) the McVicker will pick up power on the first revolution of the fly-wheel, if needed to take up a sudden load. Other engines often stop on the third under a sudden load.

"The McVicker has only four moving parts in its valve action, while other engines have twelve. You can see that that means less friction to overcome in the McVicker, and consequently it does more work on the same fuel, and uses less oil. I figure in action it only costs me 1 cent per hour per horse-power to run.

"See how well its made, all the working parts of the best forged steel, and bearings of composition brass; the base is heavy and reinforced at the crank bearing, giving absolute rigidity. All these parts, even the bolts, the Alma Manufacturing Company make in their own factory. They grind the cylinder rings as accurately as those in a fine automobile to secure perfect compression.

"My 12-year-old boy can run the engine, and I can put my men and horses at other work. That's worth considering, Jim.



"I use my McVicker for running the corn sheller, churn, cream separator, wood saw, feed chopper, horse clippers, etc., and it is saving me time and money every day.

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No. 2.
Southern Planter.
Southern Poultry Guide

75c.

The Southern Poultry Guide is Cal Husselman's 40 years of practical experience in the poultry business. The book is in crisp, concise shape, containing 125 pages, illustrated. It is for men who raise chickens and not the fancier who exhibits them.

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This Account Book is the best and simplest one we have seen and retails for 50 cents. There is ample room for three or four years' record and in addition, it contains valuable tables of weights, measure, gestation, etc.

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This binder is a neat and simple device for one volume of The Planter. As it is made of good Bristol board it will last indefinitely.

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Southern Planter
Feed and Feeding

\$2.25

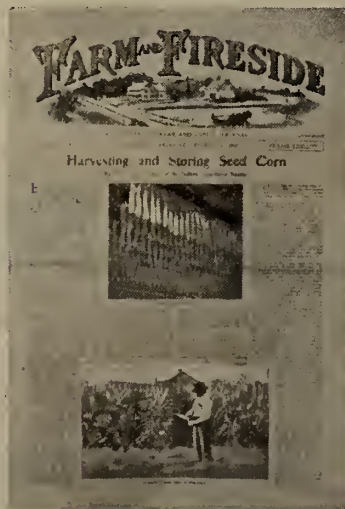
This book is Prof. W. A. Henry's greatest work and is recognized as the world's standard. Every stockman should have a copy of this work in his library.

No. 7.
Southern Planter.
Swine in America

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This is the latest and best hog book published. Its author is Hon. F. D. Coburn, who is an acknowledged authority. The work contains over 600 pages illustrated and retails for \$2.50. Hog raisers should have this book.

No. 8.



Southern Planter.
Farm and Fireside

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The Farm and Fireside is an excellent farm paper of national reputation and circulation. It is published semi-monthly, making 36 farm papers you may have for the price of one subscription.

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Southern Planter.
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The Industrious Hen is a lively up-to-date Southern poultry monthly and sells for 50 cents per year and you get it for practically nothing by ordering it with The Southern Planter.

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Southern Planter.
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These two monthlies sell for \$1 per year and if you are at all interested in fruit we would unhesitatingly say that 24 issues of these two papers are well worth your 50 cents.

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Southern Planter.
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No. 13.
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FOR COUNTRY AND SUBURBAN HOMES.

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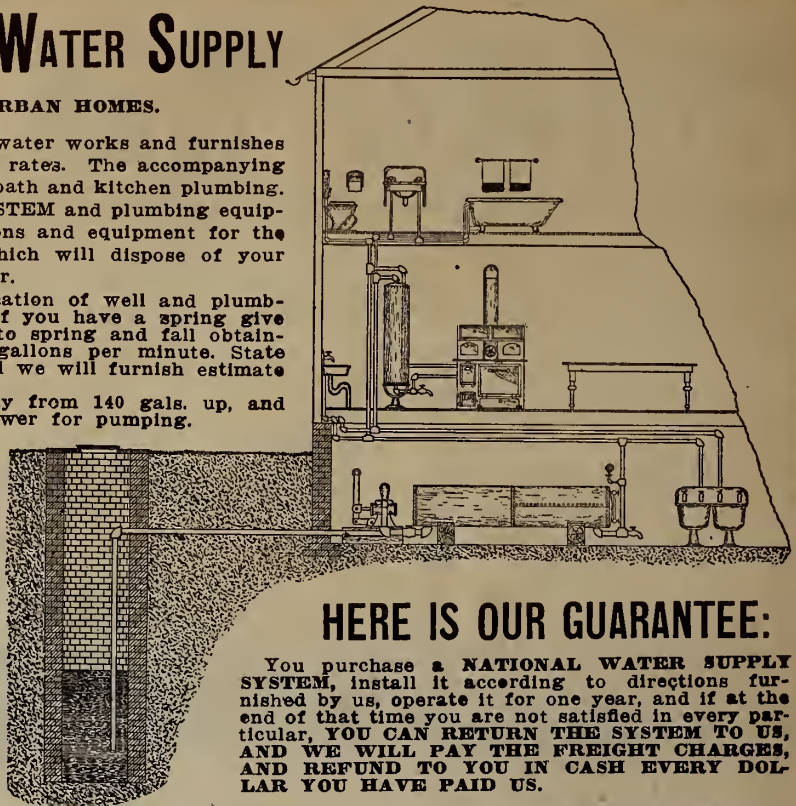
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GRAHAM DAVIDSON & COMPANY,
Richmond, - Virginia.



HERE IS OUR GUARANTEE:

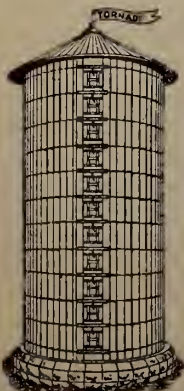
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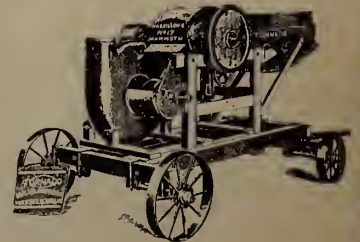
The Tornado Silo and Silo Fillers are the best. Cutters fitted with Spiral knives and shredding heads. In-changeable.



Handy Trucks with wood or steel wheels or all steel as desired, four-inch grooved tire. Greatest labor saver on the farm. Postal us for catalog or any information desired, or ask your nearest dealer for our goods.



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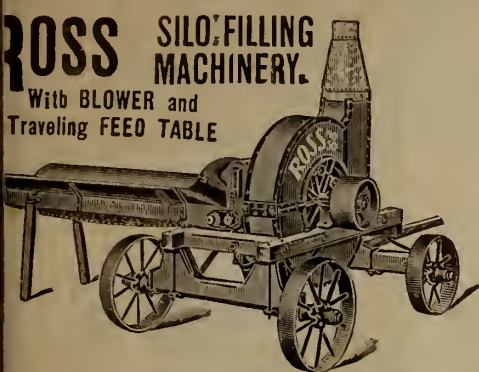


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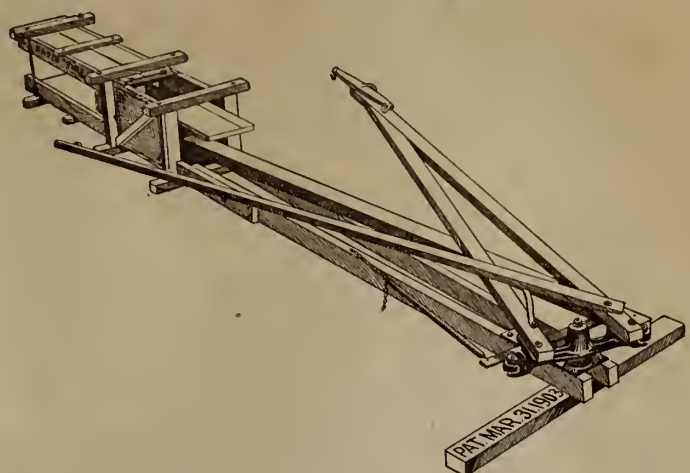
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 With BLOWER and
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 Made in sizes to suit all wants from 5 to
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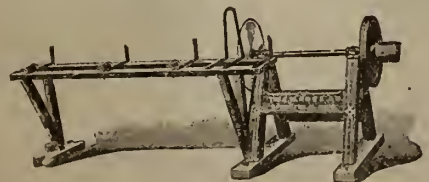
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THE MACHINE that makes
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*One Chain Only,
 But a Chain under each Door.
 It Suits Contractor and Teamster*

Scientific No. 8 used as a
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 pulley, either 18 by 4 inches,
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 Fast enough for running feed
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Stud Baker Farm Trucks—with wood
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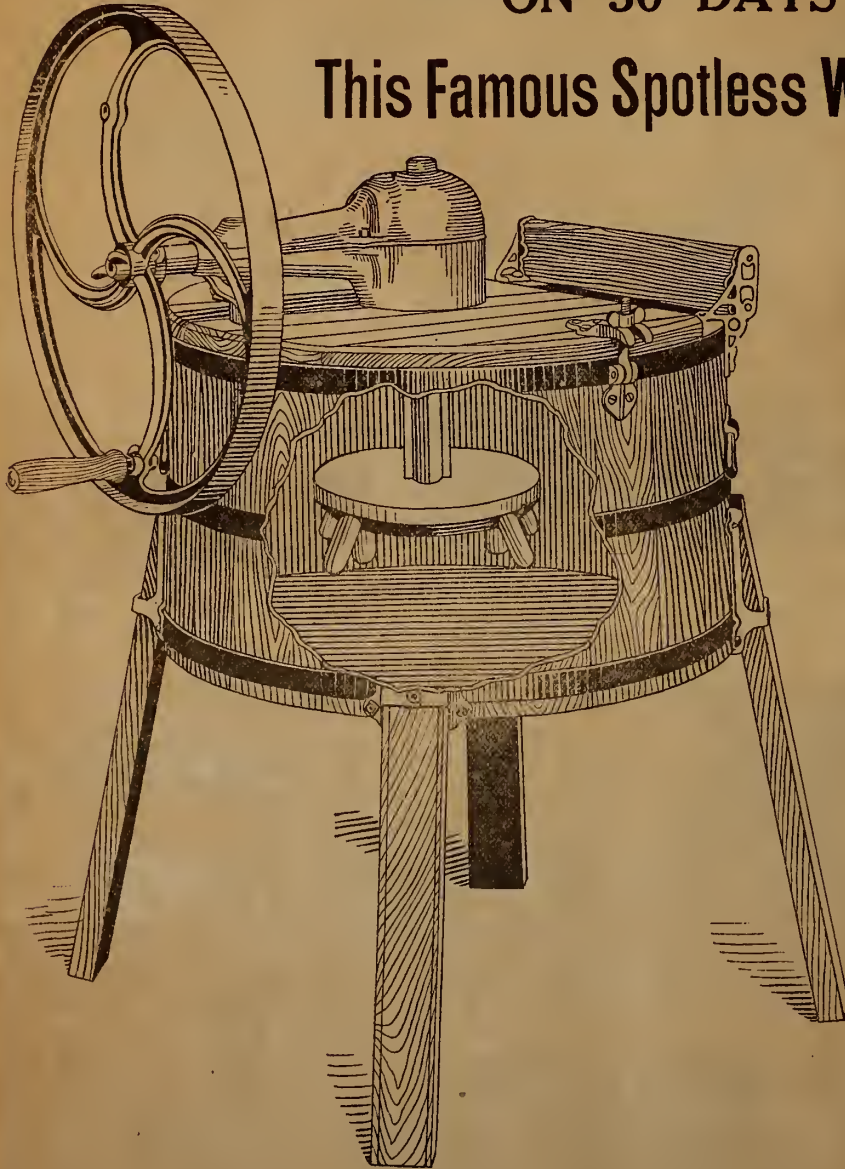


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ON 30 DAYS TRIAL

This Famous Spotless Washing Machine



Write us a postal card to-day and we will ship you at once this wonderful washing machine and wringer. It comes right to your depot without any trouble on your part. Try it for 30 days, give it the hardest kind of a test and then, if not satisfactory, send it back to us by freight and we will pay the charges back. If you do like it, we will make the payments on such easy installments that any one can buy it.

**STOP
SERIOUSLY
TO
THINK**

if you could imagine a fairer offer than this. Could we make it if the Spotless was not one of the best washers in the world. Moreover there are no strings to this offer, it is a square deal and is just as it is written. All you have to do is to send us say two references that we may know who you are. Our Spotless Washer is honestly made of Selected Virginia White Cedar—is steam tight—has all its mechanism enclosed—no danger of hands or clothing being caught—is ball bearing like a bicycle and is the only machine made in the world that is automatically lubricated; that is why it runs so easily. Send to-day for full particulars of this remarkable machine.

The Spotless Company

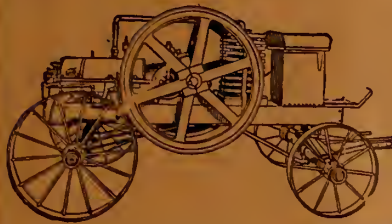
122 SHOCKOE SQUARE, RICHMOND, VA.

— THE SOUTH'S MAIL ORDER HOUSE —

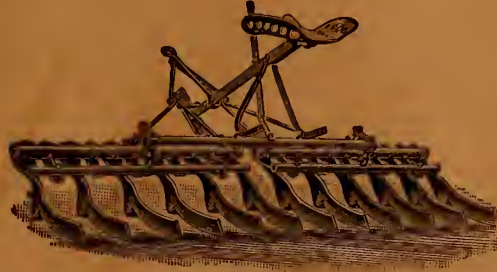
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The Largest Dealers in Agricultural Implements in the South.



A Popular Engine for General Work From 2 to 50 Horse Power.



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The Smalley Electric Pole Machine. Designed for rapid work. It is the strongest and most convenient on the market.



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"Plows a coming and a Going" None better. Write for special circular and prices.



Fish and Moline Wagons for the Farmer, Merchant and Saw Mill Man, all sizes, low wheels and high wheels.



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Every thinking man wants to provide so that his wife and little ones, those dependent upon him, will be kept above want when he is no longer here to provide for them. The great question now-a-days is the best means to this end.

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has a plan whereby the helpless, dependent ones are protected as long as they live, and kept from want. Write T. A. CARY, Mutual Building, Richmond, Virginia for "Document 843," giving full particulars and showing how easy it is for you to protect your family forever.

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Painted and galvanized

"Bestoid" Rubber Roofing

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Tarred Paper, Tin Plate, Lime, Cement, Hardware, Terra Cotta Pipe, Wire Fence, Drain Tile, etc.

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THE EVERLASTING TUBULAR STEEL PLOW DOUBLETREES.

PAT. W. & S.
Tripletrees for
Walking and
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X—Hook or
Ring in Center
as desired.

Guaranteed not to Break or Bend.

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WITH SAFETY TRACE HOOKS.

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This pattern, No. 105-A made in three sizes.

BUYERS GUIDE.

The following are some of the houses handling the Everlasting Tubular Steel Doubletrees, carrying a stock of same and can supply customers promptly:

Norfolk Farm and Supply Co.....Norfolk, Va.
Hening & NuckolsRichmond, Va.
Watt Plow Company.....Richmond, Va.
T. R. N. SpeckStaunton, Va.
Bristow & Worsham Co.Richmond, Va.
Stokes, Williams & Co.Blackstone, Va
Seay-Dillard Hdwe. Co.....Blackstone, Va

B. K. GillRehoboth Church, Va.
Duvall. Son & Co.Farmville.
Peterson & Jefferson.....Petersburg.
Walker, Carroll, Adams Hdw. Co. Charlottesville, Va.
Baker-Jennings Hdwe Co.... Lynchburg, Va.
Ansle-Martin Co..... Lynchburg, Va.
Craves-Humphries Hdwe. Co....Roanoke, Va.

Pittsburg Tubular Steel Whiffletree Company, Sole Manufacturers, Pittsburg, Pennsylvania