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J. E. WILLIAMS, EDITOR.



DEVOTED TO

# AGRICULTURE, HORTICULTURE,

AND THE

HOUSEHOLD ARTS.



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# CONTENTS.

The Economy of Farm-Made Putrescent	
manures—In Reference to their Prepa-	
ration, Preservation, and best Applica-	
tion. (Concluded)	70
To Pickle Green Tomatoes, On the Occurrence of the Phosphates in	71
On the Occurrence of the Phosphatos in	11
some of the Tertiary Denosits in Va	71
A Plea for Innocence,	71
Tobacco,	71
Mr. Winston's Wheat Crop,	
Sorghum Molasses.	$\frac{71}{72}$
Howa to Variable Control	$\frac{12}{72}$
The Wonderful Nature of the Human	12
Mind, Exhibited in the Power of Mind	
over Matter,	700
A /P-1-1-	722
Too	723
For Doub and II To be	$\frac{724}{200}$
	728
Mr. Everett's Remarks on the Horse at the	780
	70.1
The Dans of Carry	731
An Item in Neat Farming.—A Chinese	733
The Anthracite Coal Trade.—The Best	34
Wealth To make Pure Apple W:	
Wealth.—To make Pure Apple Wine, - 7	35
Humbuggery the Order of the Day.—A Hard and Durable Soap.—The Early	
	0.0
On the Stimulating Properties of G	36
On the Stimulating Properties of Guano—A Reply to "X."—Staunton Nurseries, 7.	0=
A Card.—Wool and Woolens,	37
	38
Governor Banks on the Farmer.—Height	40
of Economy, 74	
The Chinese. — Hope — Work — Wait. —	ŧΙ
Falling Apples,	
Awards of Premiums at the Vincia Co.	12
Awards of Premiums at the Virginia State Agricultural Society, - 74	
Agricultural Society, Agriculture as a Profession.—Co-Opera-	13
tion of the Wife.—To Preserve Cut	
Dongorous	
O. v. V 77 1	
The Fuirs To Subscriber:	
The Fairs.—To Subscribers in Arrears, -75 Nottoway Club, -75	
How E 110: 1 3 f 1 1 ms	
Cinanlan	
Hoon of a Dead II.	
Duamium E	
Human Life Line in Tarry 70	I
Human Life.—Live in Love; 'Tis Pleasant Living.—Ye can Conquer, if ye Will.—	1
"By-and-By," - 76	
- 765	2
Index to Vol. XVIII., - 763-768	31

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J. E. WILLIAMS, EDITOR.

AUGUST & WILLIAMS, Prop'rs.

Vol. XVIII.

RICHMOND, VA., DECEMBER, 1858.

NO. 12.

ricultural Society.]

The Economy of Farm-made Putrescent Manures-In reference to their Preparation, Preservation, and best Application.

BY EDMUND RUFFIN, ESQ.

[Concluded from page 649.]

Top-dressing with straw and corn-stalks.

There is another mode of top-dressing clover or pasture land, with dry wheat straw, which is an excellent and economical application, whenever the quantity of straw is greater than needed for food or litter, as is generally the case on all good wheat farms. When the threshing machine is in operation, and the carts are bringing in wheat from the field for its supply, it requires much labor to remove and to stack the threshed straw, as well as to supply the sheaves for threshing. When the rick has been built so high, that the labor of bringing straw upon it is the heaviest, then it will be even less labor to send the straw back to the field, in return loads, not full enough to require much trouble to be put into the carts. The loads should be dropped on the poorer parts of the field upon which the wheat grew, and which I suppose to be set with clover, ginning on page 17, and the above commencing sown the same year. The hands, kept in the field to load the carts with wheat, may have of reference to this note,) nearly as they here apenough spare time to spread the heaps of straw. | pear, were before published in 1844.

[From the Transactions of the Virginia State Ag-| But if not, the spreading should be done soon, and evenly and thinly enough, not to smother any of the young clover. The improvement will be manifest before winter. And if a spot so covered was an old gall, with scarcely any soil left, and of course very poor, the clover thereon will show to the line of the covering a decided superiority over the better though still poor land surrounding. Before August of the next succeeding year, the straw will be so well rotted under the shade of the covering clover, that it will offer not the least obstruction to the plough, in breaking up the land for wheat.\*

> Straw, taken from the ricks, may be carried out and spread as manure at any time of winter, and in such times of extreme wetness of the earth, or hard freezing, when more profitable work of teams cannot be done. The loads being necessarily light, may be drawn when the earth would be too soft for full loads. Straw should be spread very thin and evenly, or it will smother or check the growth of clover beneath; and if much too thick, will kill all vegetation, and also offer obstruction to the plough even a year later. By very thin and even covering, all these evils are avoided, and according to my views, all the strength or richness of the straw as a fertilizer, whatever

<sup>\*</sup> The last preceding section, headed "The application and action of putrescent manures," be-

that may be, is given to the land, and to its even when making, and properly making, the

growth of plants.

It is also an advantage, as before stated, that the manure from the cattle-pens may, like straw, be hauled out (in part) at early leisure times, and even when heavy rains has lately fallen, and would prevent other team-work. But this facility should be availed of very moderately, and cautiously. If the litter is taken from the pen early in winter, it has not then acted its full part as litter, and is little more than unrotted wet straw-requiring to be spread as thinly on clover to avoid injuring the growth, and having very little manuring or quicker action than dry straw. Again—if to save time and labor, whether early or late, we haul out manure immediately after a heavy rain, there are two other evil effects. First, the manure is much heavier, (with water,) and the ground is wet and soft, so that two mules may be necessary to haul as much manure as one could draw well in dry weather. Secondly-when using manure as top-dressing, it is important to have a rain as soon as possible after the spreading, so as to stop the waste of volatile parts, and to convey them, and also all soluble parts, into the earth, and enable them to act immediately in feeding the roots of the clover. Now at whatever time the manure is carried out and spread, it may be a long and is always an uncertain time before the rain will fall. But nevertheless, it is not the less certain, that the longer after the last rain that manure is carried out, the less will be the time before the next rain will come. For these reasons, if we may choose the time for beginning to carry out manure, the dryer its then condition, and the longer after the last rain has fallen, the better for the performance of the operation, and also for its effect.

Believing that to clover is the best and cheapest application of ordinary manure, that application has been in view generally, in my remarks. That manner of application is however available, though for a very extensive, still a limited agricultural region—and of which the present southern limit has scarcely been carried out of Virginia. Even in the region of clover and wheat culture, this application of manure may not be always the most profitable, even if not impracticable. The clover crop may have failed-or the clover field for the year may be too far distant from the manure to bear the expense of the transportation. Tobacco may be an important crop, and of course will demand all the farmer's manure. change of direction, and also the necessary deed a poor manuring. But it is presumed other changes of procedure should be made, that they thus give to the crop and land all and for which every judicious farmer will judge best for his own particular circumstances. Still, be, and at no cost of carting. In the usual

most considerable changes of procedure, the farmer may not the less recognize the correctness of the principles here maintained, and profit by such recognition. It is unnecessary, (and would make this writing of tedious length,) for me to state examples, or offer particular advice, on the various changes of procedure which may be made necessary by different circumstances.

So far, almost nothing has been said of the stalks of corn, which on all farms make so large a proportion of the materials for manure, and on many farms, amount to more than threefourths of all the offal of crops. Of course, when brought to the winter cow-yard, as food and litter, they add enormously to the bulk of the prepared manure. Many of even careless and bad farmers, scrupulously use thus all their corn-stalks, cut off just above the ground. In past time, when the stalks were dug up with the roots, (for the earliest wheat-sowing,) under the idle notion that the grain would be injured, if the stalks were cut so soon, I have known the stalks with their roots thus full of earth, to be hauled to the cow-yard. All this enormous amount of hauling, in any usual mode, of stalks from the field to the barn-yard, is merely to haul them out again to some other field as manure, and when made five or six times heavier by being full of water. So far as these stalks were needed for food or for sufficient littering of the animals, this double hauling is proper for these purposes and is well remunerated. But so far as being superfluous in both these respects-the whole labor of their double transportation is thrown away. It would be far more profitable as well as cheaper, to leave the stalks where they grew, to act as manure, either ploughed under, or as top-dressing spread over the surface. Whatever manuring properties and value they possessed would (as it seems reasonable) be made use of in this way as well as any other. If the stalks gained any addition of richness in the cowyard by absorbing animal matter, that portion was abstracted from the other litter which would otherwise as well have absorbed and retained all the animal matters. If the stalks are left on the land, and the ground is sown in wheat, as is most usual, the stalks may be spread over the same space on which they grew, after the corn has been gathered, and the wheat is sown, or even growing. Their early, and followed by a dry state of the land, And, more generally, and especially farther it will be a good practice to let cattle browse southward, there may be little or none on the stalks and at the same time trample the of either clover or wheat culture. In any of land just sown in wheat, which will be beneall such cases, when my preferred application ficial to that crop, and especially on sandy cannot or ought not to be made, the proper soils. This top-dressing of corn-stalks is inas manure.

With the succession of crops which belongs to my own (six-field) rotation, and my plan of corn culture, it is still more easy to use the corn-stalks as manure for the same field. Wheat does not follow corn; and no other crop immediately. The field which bore corn lies until the following May, when it is ploughed to The sow peas for a green manuring crop. corn stubble was generally cut off at two or three feet high, and this lower and heaviest part of the stalk is then easily ploughed under by two-mule ploughs. Of some parts of the field, the tops, above the ears, were only cut off, and removed for provender. And the remaining high stalks, in the following spring, having roots then much weakened by decay, are borne down by the weight of a trailing heavy chain attached to the plough, and are mostly covered by the furrow-slice which follows after. A considerable proportion of both the high stubble and the taller stalks escape being so covered, and remain on the surface, and somewhat impede the harrows when covering the sown peas. Also, other stalks, either buried but partially or very slightly covered by the ploughing, are drawn up by the subsequent cross harrowing. But both these are but trivial difficulties; and the stalks so left on the surface are soon rotted by the aid of the shade and moisture of the ensuing cover of green pea-vines, and are so brought to the condition fit for manure.

Some of the many persons who would deem wasteful and altogether improper, any omission to bring so much of the manuring materials, generally so used, to the barn-yard, may infer that I would also fail to use all other poorer and less accessible materials. But such is not the case. I make large use of pine leaves, from the woods, as litter for cattle, though for summer use only. The reasons for using this poor material are these: 1st. The leaves are brought from wood-land not designed for future tillage, and therefore there is no robbing of one part of the arable land to manure another part. 2d. The raking up of the leaves, and hauling them, are jobs done mostly when the earth is so wet that no other team labor can be performed, and therefore the cost is very small. 3d. This material, the most difficult to reduce by fermentation, is therefore used as a litter for summer cow-pens, (and might be as well for stables,) in which ermentation is always too rapid, and straw so used would be mostly wasted. These remarks oring me to the consideration of the making of nanure in summer, which, under any other and usual circumstances and modes of procedure, s almost a total waste,

Summer-made manure.

mode, of double hauling, the cost is enormous, (nure in cattle-pens, which constitutes much the and the final application of no increased value larger proportion of all kinds secured during the whole year, is rarely more than four months. With better care and economy, or when most extended, it does not much exceed five months-from early in November to some time in April. There remain nearly or quite two-thirds of the year, during all of which time the cattle are better fed, on green food, and are in much better condition, if not gradually approaching to fatness as will be the case on good land, not over-stocked. Under these circumstances, the excrements of the animals, in equal times, are much more abundant, and also much richer, than in winter. And considering the longer time for producing these richer animal excretions, the summer supply, in quantity and quality, must be of at least three times as much value as that of winterand if combined with as much litter in proportion, and preserved from waste as well, ought to supply three times as much of total bulk and richness of manure. Yet, in universal practice, however varied, our summer manuring by cattle does not cover one-fourth, (and more usually not one-tenth,) of as much land as would the winter cattle-pen, with but the restricted supplies of litter which I provide, and have advised above. If using the like litter, (straw, or corn-stalks,) and whether abundantly or scantily, for a standing summer cow-pen, the then high temperature, acting on the moist litter, would induce rapid fermentation and speedy and wasteful decomposition of the mixed mass. Most of the substance and value of the materials would be wasted in the air. The cattle also, confined all night, and some hours of the day, on this putrifying and wasting bed, which makes a soft mire of filth in all wet weather, would be tormented by the myriads of stable flies which the filth would serve for breeding-and would suffer otherwise in health and condition by being kept on so foul a bed. These evil effects have soon stopped nearly all the attempts that have been made at various past times, and by many farmers, to make manure in summer, by penning cattle on ordinary litter.

Compared to this plan, (which probably few farmers have tried longer than one summer,) the ordinary procedure is far preferable, though still very wasteful of manure. This is to pen cattle, without any litter, or with very little, on the ground designed to be manured, and removing the enclosing fence to the next adjacent ground, as soon as each enclosed space is successively and sufficiently manured. In ordinary careful practice, the pens are thus shifted once a week. Reference to this usage was made in a foregoing page, and in another con-nexion, and some of the causes of waste stated. Besides the waste by decomposition, in any mode of treatment, of the more solid excrements, and the still more complete loss of the The usual time for making the mixed madurine of the cattle, dung-beetles (scarabæus) of the ordure. Probably full three-fourths of all the animal manure is thus wasted in different ways. Then, for the benefit of the small remainder, there is all the labor, and greater inconvenience, of the frequent moving of the enclosures. So little manuring and benefit have I gained from this plan of movable pens on naked ground, and with so much labor and inconvenience, and so much injury to the confined cattle, (and still more if to sheep,) that it was questionable whether there was any remaining balance of clear profit. Under this impression, when my cattle could be kept at night in a separately enclosed field, I have preferred, and have so ordered for several years in former time, that the cattle should be there left at large, rather than confine them at night in a pen. In the former case, the excrements were dropped at wide intervals and irregularly over the field, and so left as top-dressing, instead of being collected in the small space of a pen. The loss by the eating and working of beetles was the same, and very great, in both cases. But the comfort and condition of the cattle, when thus not confined, of leaves probably would serve as well as the are so much better, that it is more than compensation for the irregular dispersion, and loss decomposition, and loss by insect consumers, were equal, in both cases, the benefit to the land would certainly be greater, by the cattle load, and to be applied to the fields. Land not being penned. Where pens are used, there formerly worn out under exhausting tillage. are no plants left alive to take up the fugitive products of decomposition. But when the excrements are dropped on a field, or pasture, however closely grazed, the close adjacent grass or weeds take up these gaseous or soluble products of decomposition, and are thus nourished and increased for future vegetable manure. Further, the early rank growths of these highly manured small spots are not palatable to animals, and so are left. In regard to sheep, the reasons against penning them have increased force. They are still more injured than cattle by being penned at night, in summer, as that is their best time for grazing; and when left at large, there is much less loss in their excrement from wasteful decomposition, none from insects, and it is much more separated and diffused over the ground. Acting upon these views, and notwithstanding my wish and efforts to increase my quantity of manure as much as can be done with profit or advantage, I rarely permit my sheep to be penned in summer, and never, when they can be allowed to be left unconfined, without their doing injury to the crops.

But in regard to cattle, there is a better course than either the use of ordinary naked pens, or straw-littered pens, though perhaps not better than the omitting to pen them. This is the plan that I have pursued for the few last years, and which will now be described.

eat and so carry off, or deeply bury, nearly all wet state of the earth that all tillage or manuring operations must be suspended, the woodland is raked, and the dead leaves heaped. Wooden rakes, with six or at most eight teeth, are used, so that some of the most reduced vegetable matter is left by hasty and imperfect raking. I always avoid the use of broad hoes, or any scraping off and removal of the surface of the ground, which very injurious abstraction is usually made by farmers who use this material for manure. If the leaves only are removed, and say once in two years, and that from land not to be soon brought under tillage, it may be doubted whether any injury is done to the fertility of the raked wood-land. such land has already received (from the superabounding source of supply,) and taken up, as much of vegetable manure as the constitution of the soil will enable the soil to combine with, retain, or use for the growing trees. If more is left, in the fallen leaves, after their very slow rotting on poor land, the results of their decomposition will go to waste, without benefit to the land or to its growth. To produce all the benefit actually received, one-tenth of the crops whole; and the other nine-tenths might as well be removed for manure, to wherever wanton that score, of manure. If the progress of ing, as to be left to rot and waste on the land which produces them.

Pine leaves are much the best, to rake, to formerly worn out under exhausting tillage, and "turned out," and now under a second growth of pines entirely, is the best by far for this operation. To such land, my labors of this kind have been mostly confined-and therefore I do not extend my statements to oak growth, or other than such as is mostly if not

altogether of pine.

However much valuing leaves for manure, still they make a very poor material, and also very slow to decompose. Therefore, unless ordinary farm litter could not be had in quantity sufficient for the comfortable bedding of the animals, I would never use leaves for winter littering of cow-pens or stables, or in any case where speedy decomposition of the manure is most desirable. But this quality of being slow to change and decompose gives to leaves, and especially pine leaves, a peculiar value for the littering of stables and stock-pens in summer, as there will be much less waste of fertilizing parts from all the different materials of the manure, and less inconvenience or injury to the animals thereon confined.

As my present practice is but a few years old, and there has not been as yet sufficient opportunities for observing and estimating results, I will merely describe the principal operation, the making of manure in summer in cow-pens littered with pine leaves.

A strong and coarse fence is put around a square quarter acre. When a very wet state In winter and spring, at such times of very of the land, or remaining thin snow, or hard

labors, all the hauling force is put to bringing leaves from the small piles in the woods to the designed cow-pen. The loads are dropped as close to each other as may be—and equalized by some fork-work when required. If convenient to continue so long at this work, the covering of leaves is made four or five feet thick, by the carts. The cattle (about 50 in number) are brought on in April, when taken from their winter pen and dry food, and are kept in the summer pen every night, and some hours of the day, at morning and evening. Their treading brings the litter to a compact bedding of twelve or fifteen inches thick. This bedding absorbs the urine, and while retaining it and securing it from loss, resists speedy decomposition from the rich and very putrescent admixture. This very valuable material is almost all lost, by rapid decomposition, in other ordinary and as rude modes of accumulating summer manure, whether with straw as litter, or in naked pens. The semifluid and the more solid excrements are soon dried, on this very open and dry surface of leaves-(although moist lower in the mass)and in a few days more, the dried material is scattered and well mixed, by the treading of the cattle, with the upper leaves, which also are cut up fine, by the same treading. The surface is a dry and firm bed, except immediately after considerable rain, when the upper and reduced layer only, may become soft. As such wet spells usually permit other farm work; they offer convenient times for removal of the so far prepared manure. At any rate, such removals should be made once or twice during the time of penning the cattle, and at the close. The upper layer of leaves, of a few inches deep, reduced both by the treading of the cattle, and by the partial decomposition, and holding intermixed nearly all the solid animal excrements, is easily separated from the unrotted lower mass, and presents a rich manure, in the best state of reduction for use and speedy action. This should be applied immediately to any growing crop, the most convenient in locality, or the most suitable in its state of growth or culture—and making the application, as much as circumstances permit, in accordance with the principles stated and maintained in the preceding pages. Each successive removal of this upper and well reduced layer of manure, exposes a new surface of the unrotted and firm bed of leaves remaining wet below, on which the cattle then find a clean and comfortable bed; and the same process goes on of converting another layer of the bedding to prepared manure, and next applying it. A whole season will probably not serve to get to the bottom of the still firm and unrotted leaves. Any remnant, so left, will make so much of the supply of litter for the next summer's penning, in the same enclosure.

Besides the advantages of this plan already land yielding (now) 35 to 38 bushels of corn—

freezing, forbids other more profitable team labors, all the hauling force is put to bringing leaves from the small piles in the woods to the designed cow-pen. The loads are dropped as close to each other as may be—and equalized by some fork-work when required. If convenient to continue so long at this work, the covering of leaves is made four or five feet thick, by the carts. The cattle (about 50 in number) are brought on in April, when taken from their winter ren and dry food, and are kept in the summer pen every night, and some hours of the day, at morning and even-

What is the cost of this plan of accumulating summer-made manure, it is impossible for me to estimate. But the labor is mostly done when little else could be done of profitable farm operations. What is the measure of fertilizing effects, I know as little of as yet, having had no full opportunity for observing, and estimating the separate results. But of this I am perfectly assured—that the poor vegetable material is as cheaply and better prepared for use, and the rich animal matters are better preserved from waste, than in any other known modes of using them. Therefore, as the labors are cheaply and conveniently supplied, if the vegetable material has any manuring value, it is unquestionable that the thus putting to use so much of otherwise useless vegetable matter, and the saving from waste of so much highly putrescent and rich animal matter, must be not only an improving, but a highly profitable operation.\*

\*On my farm, Marlbourne, of 6 fields, about 125 acres each, (besides some 80 acres of other and poor land recently brought in,) the manure carried out latterly has been as follows:

1853, prepared manure, 1910 loads, (of two-mule carts,) estimated at 24 bushels (heaped) to the load. A large quantity of straw also carried out from the stacks, not counted in the above.

1854, 1887 loads to October 1st, (there will be some 100 more by end of year,) of which only 315 were from the summer cow-pen, littered with pine leaves. Much more summer manure had been made in 1853, on pen so littered, and more abundantly, and the cattle kept there longer. No woods' litter used elsewhere, and no other except the corn-stalks, &c., (leaving lower part,) and wheat-straw, &c. All the straw of 1853 used for litter for this year's manuring.

As stated above, the cattle kept latterly, are about 60 of all kinds. Horses and mules, 18 for last year. The sheep add nothing to the prepared manure, and the hogs (few in number) only while fattening for slaughter. Then according to the slight and partial use made (as recommended above) of collected stalks and straw, (or parts of corn and wheat offal only,) these years' manuring, (at a half load for each 11 yards square, or 20 loads to the acre,) covered—for 1853, at 12 bushels, 11×11 yards, 95 acres—1854, to October 1st, 94 acres. The offal of stalks, straw, &c., is obtained from about 125 acres of land yighling (now) 35 to 38 bushels of corn

Natural manuring, with green or dry vegetable render its growth certain and abundant in promaterials.

Patural manuring, with green or dry vegetable render its growth certain and abundant in promaterials.

But so

The manuring labors which I have recommended, and with the omission of much that is done by other practical farmers-and omitting very much more that is directed by closet farmers, or writers who are not farmers-will (according to the productiveness of the farm in supplying materials) serve to cover as thickly as is proper and safe to the then growing vege-tation, from one-half to more than the whole of one field of a five or six field rotation. But all this amount of manuring, though much exceeding what is usually done on most farms, is much less than another kind of manuring, and which I have as yet touched only incidentally, and as necessarily connected with the collection or avoidance of materials for prepared manures. I speak of what may be correctly designated as natural manuring—which is manuring land by its own growth of plants, left on it for this purpose-and either turned under by the plough, green or dry, or left as topdressing to decay on the surface of the ground, until the next covering of tillage. But vast as is this resource and supply of manure, and great as its value-and important and interesting as would be the proper treatment of the subject—I must pass it by with but a few slight and hasty remarks. For though this is truly a branch, and, in our usual circumstances, the most important branch of putrescent manuring, it is not so understood in common parlance-in which the term "putrescent manures" is restricted to matters collected and prepared for use, or otherwise obtained by purchase, already prepared, from without the limits of the farm. While deferring to, and being much restrained in the range of my remarks by this popular understanding, still I have included as a manure unmixed and dry straw, and would as much include not only the richer clover and pea-vines, sown for manuring crops, but also all grass and weeds grown and left un-grazed, and either ploughed under, or left to decompose on the surface among other growing

The leguminous or pod-bearing family of plants are the most valuable for manuring crops. Of these, red clover is the best, wherever soil, climate, and other circumstances, concur to

and 250 acres of wheat, yielding nearly 20 bushels, average. One field (125 acres) of broadcast peas, turned under, and one field of clover (or weeds, where clover fails to grow.) for wheat—and one field of weeds (partially grazed) for corn.

From midsummer, 1854, to October 3d, the cattle had not been penned, at all, when grazing on a separately enclosed pasture. I now deem their remaining at large, in summer, in benefit to their health and condition, of more value than that of collecting their manure in pens, whether naked or littered, for the same time.

portion to the fertility of the land. But so precarious is the growth of this plant in the tide-water region of Virginia, even on good or calcareous soils, (and it is almost hopeless on any other lands,) that its value is equalled by the Southern pea, and more and more exceeded by it, as proceeding southward. But whatever may be the respective values of these two most valuable of manuring crops, neither of them can be a substitute for the other. Clover requires to be sown on wheat, or oats, and on land cleansed of other grasses and weeds by preceding tillage; and at least eighteen months will be required to obtain the first useful products. Peas, sown broad-cast for a manurecrop, demand a distinct ploughing of the land preparatory to the seeding; and the crop reaches full maturity and commences decay in four months. Therefore, the choice between these two manuring crops, in each particular case, on soil and in climate suitable for both, must be directed by the conditions of the place in the rotation of crops, and the order of their succession. Whenever a heavy cover of either of these leguminous crops can be grown, (red clover, or any of the numerous varieties of the Southern field pea,) and ploughed under, the vegetable cover makes a good manuring to the field.

But it is not only in these or any other sown or tilled crops, that we may find green or dry vegetable manuring. Every plant, whether grass or weed, shrub or tree, which grows, dies and rots in or upon the soil, according to its texture and constitution, gives more or less of fertilizing manure to the soil, and to its subsequent growth. However poor and scant may be the natural growth of weeds on arable land, when left untilled for a time, it is so far a manure, and the most abundant and cheapest putrescent manure that could be furnished on any farm, to a broad extent, of poor land. And if, by preventing the grazing of live-stock, this natural growth is allowed all to act as manure, and for sufficient intervals of rest to the fields between exhausting crops, the land, if before impoverished, will gradually rise in fertility to such higher grade as its earthy and chemical constitution will admit. This poor but cheap manuring is best suited for the commencement and earlier progress of improvement of much impoverished lands. After some length of time, the entire omission of the grazing and trampling of the fields by animals would become a disadvantage to the subsequent tilled crops. Besides, on lands become productive, it will be more profitable to substitute for the manuring with weeds, other manuring by peas, clover, and stock-yard and stable manures.

The rude system of manuring with putrescent matters, here described and recommended, I readily admit would be unsuitable to a highly advanced condition of agriculture, and of high-priced lauds and low-priced labor—as in Eng-

land and Belgium. The elaborate methods of merly respected as one of the highest agriculmanure-making approved in these countries, even when most proper there, would be not less unsuitable and unprofitable for our country, and products, and costly labor.

#### General remarks on compost manures.

It being my purpose in this writing to treat exclusively of putrescent (or organic) manures, and those of farm production, it was proper that I should avoid the other great and important classes of mineral manures, and of purchased manures, whether mineral or putres-cent. There is another important class, which is of intermediate origin and composition, of which it may be doubted whether the treatment should be included, or not, in an essay on putrescent manures. But in my case, there is another and sufficient reason for omitting any particular account of this subject of compost manures, in my admitted want of all practical experience, and even very limited personal observation of the practices of others, in this manner of manuring.

The preparing of compost or mixed manures, compounded of different and various ingredients, has long been approved and extensively practiced in Europe; and latterly, has been carried on with zeal and profit in different and far separated parts of the United States. The most extensive practices in the Northern States, (where peat is the main material,) I know of only thorough published accounts. In Talbot county, Maryland, and in Edgecombe county, North Carolina, I have lately seen other ope-rations of composting, and heard of effects, which left on my mind no doubt of great improvements and profits being thereby obtained. As proper, in my admitted want of practical knowledge on this subject, I will offer merely a few general remarks, to direct attention to a practice which is almost unknown in Virginia, and invite experiment-and not to presume to offer instruction from a source confessedly so void of information.

There have been opposers of composting as long as approving practisers. The great difficulty and objection is the great labor of mixing the different materials, with the incidental repeated handlings and transportations of the manure or the heavier materials. Every merely practical man would be at once impressed with this difficulty; and even some theoretical or scientific writers have thus been arrayed against the expediency of composting. All such objectors have assumed the ground that any manuring substance, which would be useful as a material and ingredient of a compost heap, would be as beneficial if applied to the land

tural authorities. Perhaps forty years ago, the reading of this opinion in one of his works, confirmed my prejudices against the system of under its present circumstances of cheap land making of compost manures. It was not until very lately that my personal observation, and reports to me of practical results, on the places where obtained, led me to doubt the truth of my long maintained grounds of objection. There is no denying that practical (and many merely practical) farmers who use composts largely, are convinced that they profit greatly thereby. One, or a few farmers, of easy faith and sanguine temperament, might for a few years deceive themselves in regard to the results and the profits of this practice. But that would be impossible in regard to whole communities, embracing farmers of every grade, and acting for long time. Such has been the case in Talbot, and more recently in Edgecombe. The labors so directed are of enormous amount in both these localities; and it is impossible that they could have been so long persevered in, unless the operations produced profitable returns, on the general average. This inference as to general and usual results, is not opposed to the very probable facts of many particular misapplications of labor on materials being of more cost than value.

But besides this, the best proof of the profit of any system of manuring, furnished in the long continued practice and satisfactory returns of the practical farmers-there are theoretical views and sound reasons for supposing new values to be created, or the old much increased, by the mere intermixture of some different substances, and the new chemical changes and combinations thus favored and induced. Also, (and this is a very important matter of economy,) materials the most putrescent and therefore, the most liable to waste and destruction, when alone, by being intermingled with a great mass of other inert material, may have the otherwise fleeting products of decompo-sition arrested, fixed, and saved for fertilizing action. Again-organic matter, in some conditions, is not liable to decomposition-or is extremely slow to decompose—as peat earth, marsh muck, pine and other leaves from acid soils, saw-dust, used as tanner's bark, &c. Yet all such matters are almost entirely organic, and also putrescent under other conditions, and wholly unfit for alimentary manures. When such substances are mixed with much smaller proportions of others the most putrescent, as flesh, of carcases, fish garbage, blood from slaughtered animals, human excrements, and those of fowls, rich stable manure, &c., the latter act as quickening leaven to the great mass, and decompose it, or render it decomseparately; and by each one being applied separately or alone, all the double handlings and transportations, would be avoided, and more than half the labors of composting saved.

posable, and at the same time, by the mass of the great materials, the most put rescent are mechanically enclosed and preserved. Further—if mild lime be added and diffused throughout Such were the views of Arthur Young, for- the mass, chemical action, altogether conservative, will be added, and in far greater power to the above mechanical action.\* Any other fertilizing minerals, or neutral salts, added in small quantities and thoroughly diffused, will be thus extended, and in equal diffusion, over broad surfaces of land. Such will be the beneficial use, if no other, of additions of gypsum, bones, common salt, and ashes or other substances supplying potash, nitre, &c. Compost heaps, made of these and of any other materials capable of supplying manuring principles, are once or oftener cut down, and intermixed more thoroughly. Those containing lime and also animal or other rich organic matters, are in fact artificial nitre beds-in which the production of nitre, obtained mostly from the atmosphere, is continually in progress.† In this way, of use, (and even without the addition of any animal matter,) lime in compost (as supposed) has been found very beneficial in France, in quantities less than twelve bushels (of lime) to our acre. With all my exalted opinion of the value of lime as manure, these effects, in such smaller quantities, were incomprehensible to me, until viewing the effects in connexion with the nitre-producing action of lime in composts.

Many of (us and I for one) have used as manure, and alone, marsh mud, or other earth largely composed of inert vegetable matter, and in almost every case without remunerating returns. Yet the same, or much poorer earthy material, is used after being prepared in composts, with unquestionable good effect and profit. This material has been largely used in compost in Talbot, Maryland; and there and also in Edgecombe, North Carolina, the principal proportion of most compost heaps, is the much poorer earth of ditch-banks, head-lands, and other scrapings of margins of fields, and corners of worm-fences. Indeed, I have seen in large use earthly materials apparently so poor in fertilizing matter, that nothing but the reported practical good effects of like manures could convince a stranger that such labors

#### To Pickle Green Tomatoes.

would not result in absolute loss.

Chop the tomatoes fine, adding a few green peppers, (and onions if you like them,) add one tea cup of fine salt to a gallon of tomatoes; let it stand twenty-four hours; then drain it through a cullender, adding two table-spoons of black pepper, three of fine mustard, two of cloves, and one of cinnamon. Put in a jar and cover with vinegar.

†See full view of this particular action, in Essay on Calcareous Manures, pp. 263-7 of 5th Edition.

From the Transactions of the Va. St. Agr. So. for 1858.

[PUBLISHED BY ORDER OF THE EXECUTIVE COM-MITTEE.]

On the Occurrence of the Phosphates in some of the Tertiary Deposits of Virginia.

To the Executive Committee of the Virginia State Agricultural Society:

Gentlemen.—Some years since, I had the honour to submit to your body a report upon the composition of some of the marls and other deposits belonging to the tertiary region of Virginia. (Transactions of Va. S. Agr. So., pages 62 and 179, Vol. I.) Under the head of "Olive and other Earths," several analyses were given, in which I report the presence of phosphoric acid in appreciable quantity, and in one instance, I found 1.18 per cent., equiva-lent to 2.55 per cent. of bone phosphate of lime. In every case a solution of the earth in dilute hydrochloric acid was made, and filtered; the phosphoric acid was subsequently pre-cipitated as the phosphate of iron, by means of the acetate of soda. Knowing that all of these earths contained iron, no compound of iron was added to the solution, because I believed the quantity of iron present sufficient for the separation of the whole of the phosphoric acid. Subsequent experience in the analysis of manures containing the phosphates, in which the chloride of iron had to be added in order that the phosphoric acid might be separated from the other constituents, led me to think that in the analysis of the earths above referred to, the proportion of iron might have been too small for the object desired, and that in consequence of my not observing the re-actions as carefully as after experience proved to be nenecessary, I might not have separated the whole of the phosphoric acid from these earths, and that therefore the percentage reported was probably too low.

Having several samples of these earths still in my possession, some of which I never had examined, I subjected them to analysis, adding the chloride of iron to the solution in each case until I was certain that I had precipitated all the phosphoric acid. I soon found that nearly all of them contained appreciable quantities of the phosphate of lime, while some of them contained from 5 to 7 per cent. This fact having been communicated to Mr. E. Ruffin, the President of the Society, he very kindly undertook to procure other specimens for me from the various localities within his reach. A number of these specimens have been analyzed for the phosphates, with varying results, all of which will be found below.

Whilst engaged (in 1853) upon the analysis of the marls, Mr. Ruffin sent me one or more samples of "olive earth," containing nu-

<sup>\*</sup> This principal agency of calcareous earth (or carbonate of lime) in aiding fertilization, is maintained and established in Essay on Calcareous Manures, pages 92-7, of 5th Edition.

were casts of shells, &c., he remarked that ed section on the Pamunky river. wherever they had been applied, they seemed to have produced good effect, and suggested feet below its top, contains traces only of phosthe idea that perhaps they were rich in phosphate of lime. Their appearance, however, led me to think that they were nothing but impure feet, a very little black gravel mixed with it, carbonate of lime, and when a strong acid was dropped upon them, the effervescence which took place was so marked, that I was confirmed in my belief, and thought that I should be wasting my time to subject them to analysis. After completing the analysis of the "olive|gravel—stratum from three to five inches. earths," I had occasion to throw a few of these thick. This, after the gravel was crushed, and pebbles into muriatic acid; finding that complete solution soon took place, and that the effervescence was not so vigorous as I had a right to expect on the assumption that the whole, or nearly the whole, was carbonate of lime, I determined to subject them to analysis for the phosphates. I find them all to contain the phosphate of lime in large proportions.

The numbers which follow are simply given

for convenience in reference.

No i.-" Olive earth," from Retreat, (from Dr. C. C. Cocke's,) reported upon, and referred to at No. 19 of my first report, (page 69.) This specimen contains 6.86 per cent. of phosphate of lime.

No. ii.-" Olive earth," same locality, and reported upon in former report as No. 18, (page 69.) This contains 3.92 per cent. of the phos-

phate. No. iii.-" Olive earth," Marlbourne Farm, (No. 17, on pages 69, 70, first report,) from eight and a half to nine feet below top of blue

clay, (No. 16,) contains 5.012 per cent.
No. iv.—"Olive earth" containing black gravel,—Marlbourne, (No. 17, pages 69, 70,)—contains, after the removal of the gravel, 5.15

per cent, of phosphate of lime.

No. v.—Blue clay overlying the "olive earth," Marlbourne, (No. 16, page 69,) obtained by Mr. Ruffin by boring. The first five feet contained only traces of phosphate of lime; the sixth foot contained 4.80 per cent.

No. vi.-" Olive earth," Marlbourne Farm, (No. 17, pages 69, 70,) also obtained by boring, -specimen at the depth of eight feet below top of blue clay, (No. 16. pages 69 70,) contained 5.97 per cent.

No. vii.—Same as No. vi., (No. 16, pages 69, 70,) but at the depth of nine feet below top of blue clay, 16,) contains 7.27 per cent.

No. viii.—Same as No. vi. and vii., but at the depth of nine and a half feet below top of blue clay, (No. 16, pages 69, 70;) this contains 7.41 per cent. of the phosphate.

No. ix.—Black pebbles taken from "olive earth," No. iv. After being crushed and thoroughly mixed, they were found to contain 56 per cent. of phosphate of lime!

merous smooth black pebbles, some of which | Hanover county, and all from the same expos-

No. x .- "Olive earth," at the depth of four phoric acid.

No. xi.-" Olive earth," at a depth of eight

contains 1.58 per cent. of phosphate of lime.

No. xii.—"Olive earth," at a depth of ten feet, six inches above gravel bed No. xiii., contains 3.23 per cent. of the phosphate.

No. xiii.—"Olive earth," containing black

thoroughly mixed with the earth, gave me 24 per cent. of phosphate of lime!

No. xiv.-Marl, two and a half feet below No. xiii., contains more or less black gravel. The gravel was crushed and mixed with the marl; the mixture, on analysis, gave 7.89 per

cent. of phosphate of lime.

No. xv., xvi. and xvii .-- "Olive earths," from the same section, on the farm of W. A. Braxton, Hybla, King William county.

No. xv. contains 1.37 per cent., No. xvi., 1.58 per cent., and No. xvii. 0.93 per cent. of

the phosphate.

Nos. xviii. and xix .- "Olive earths," from Chericoke, King William county, selected by Dr. Tomlin Braxton.

No. xviii. is ten or twelve feet thick, overlaid by nine or ten feet of earth, and contains 7.41 per cent. of phosphate of lime.

No. xix., about four feet in thickness, and overlaid by four feet of earth, contains 2.54

per cent.

No. xx.-" Olive earth," from Bassetterre, King William county, selected by G. W. Bassett, contains 3.77 per cent. of phosphate of

No. xxi.--"Olive earth," from same locali-

ty, contains 3.64 per cent.

No. xxii.-" Olive earth," from G. W. Bassett's, Farmington, Hanover county, contains

6.38 per cent.

I may remark that the "olive earth," No. xiii., and marl, No. xiv., owe their large per centage of phosphate of lime to the presence of black gravel. Mr. Ruffin informs me that numerous beds of Eccene marl contain, in thin bands, or layers of the marl, more or less of this gravel, but always in small quantities. In all such cases, we should expect the marls to contain very considerable amounts of phosphates of lime, in proportion to the quantity of the black gravel.

Up to within a very short time of my making my first examination of the "olive earths," they had all been regarded as worthless. Mr. Ruffin, however, having heard that a very successful experiment had been made by the use of some, called my attention to them, and sent recent. of phosphate of lime!

Nos. x., xi., xiii, xiii, and xiv. were procured lication of my report, various trials of these by Mr. Ruffin from T. G. Turner, Springfield, earths have been made, and some of them have

been very successful. taken a very lively interest in the matter from the first, informs me that he will make further inquiries in relation to their effects as manures. and has kindly offered to communicate to the Society the results of these inquiries, as an appendix to this report.

Respectfully, your obedient servant, WILLIAM GILHAM.

Va. Mil. Institute, Sept. 29th, 1858.

#### APPENDIX.

The discovery made by Prof. Gilham, and announced in the foregoing report, of the presence of considerable proportions of phosphate of lime in the "olive earth," is a very interesting fact in scientific agriculture, and likely to be also of great practical value to all farmers who may have access to earth of this kind, and know its quality and value. The "olive earth" is the usual overlying layer on the eocene marl of the Pamunkey, and also of the peculiar miocene marl of Hampstead, in Kent, described at pp. 491, 2 and 3 of 5th edition of Essay on Calcareous Manures; and which marl is also found at Chericoke, and at Hybla, in King William-from the overlying olive earth of which two farms some of the specimens were obtained and analyzed. What I knew, and suplime was contained therein. Prof. Gilham's earlier examinations (in 1853) showed the presence of a small per centage of phosphate of lime in most of the specimens of olive earth I had then selected for him. (See his earlier communications, pp. 62 and 179, Trans. V. S. A. S., 1853.) Even this was of practical importance, in conjunction with the sulphate of lime, potash and soda, which he also found. error, which, as Prof. Gilham states, before concealed much the larger portion of the substance present, have served to show much larger proportions in some of these olive earths. and in most of the specimens which, at his request, I had sent to him. It appears, however, that the proportions vary very much in different specimens and places-from less than 1 to more than 7 per cent. of phosphate of lime-and that important differences, in this respect, are not only found in different remote exposures and localities, and different beds, but at different heights in the same bed and section, and where there is no difference of appearance to the eye.

Previous to the trials made of olive earth as

Mr. Ruffin, who has reported in the nature of "olive earth," just referred to,) this earth had been deemed of no value. Almost every marler in this neighbourhood had to dig through more or less of this earth to uncover his marl, and with much labour, and it was thrown aside as worthless. In later years, the olive earth has been carried out and spread as manure, like the marl, and generally on the same surfaces. Since I learned the remarkable results of the more recent analyses, (above stated,) I have sought to learn more of the experienced practical effects. But there have been no accurate experiments made, of the effects, either of olive earth alone, or in any certain mixtures with marl-except the one I formerly saw and reported, of Mr. Henry Jones. His experiment was made with Dr. C. C. Cocke's olive earth, (above designated as Nos. i. and ii. in the present report.) Mr. John Beale has made much greater use from the same bed-and he only (except Mr. Jones) had then used the olive earth alone, without marl previously having been applied on the same surface. Mr. Beale informs me that he has always found great benefit from his applications. He, and four others of my neighbours, who have since used this manure largely, but on land also marled, (and without any accurate observation of the different effects,) all are well satisfied with their results. is true that there is nothing more definite than posed, of the olive earth, was stated at some length in the work just named, (pp. 479, 480, 481,) and my reasons, formed in advance of any analysis, for supposing that phosphate of seem (to these loose observations) to have been as satisfactory in supposed effects on the farm on which they were used, as the richest in that ingredient elsewhere.

My own use of this earth, (of the Marlbourne bed,) marked 17 in Prof. Gilham's first report (Trans., Vol. I., p. 69, 70,) was very large—but it was applied before I knew its value, on land also marled, and without the care necessary to have accurate comparative But his recent analyses, cleared of the cause of results. I can only say that from general observation of products, I believe that considerable benefit has been produced, over and above all that is due to the marl. But I made nothing that deserves to be called a proper experiment, and therefore have no accurate or relia-

ble results.

Still, on the whole, after learning the large proportion of phosphate of lime in our olive earth, I am surprised and disappointed that the benefit the land and crops, from this very valuable and fertilizing ingredient, should not have been greater and more striking, even from such irregular applications. The very great value of phosphate of lime as manure has been well and long established. Bones, which contain only about 56 per cent. of manure, by two of my neighbours, Messrs. phosphate of lime, have, for this ingredient, John Beale and Henry Jones, and their rebeen used very extensively, and with great efmarkable results, (to which Prof. Gilham refers feets, in England, and bought for manure at as being stated to him by me, and which I had three shillings sterling the bushel. The usual pushels to the acre, which would give (of the Marlbourne bed) from 20 to 25 bushels of phosphate of lime. Perhaps our soils in this neighbourhood may naturally contain nearly enough of this essential ingredient, so that an additional quantity would not produce very marked early benefit. I formerly supposed that rue, would explain the small effect of olive earth on land previously and heavily marled rom such beds. But I am compelled to give up this former and long cherished belief, inasnuch as Prof. Gilham, in sundry trials, has not found more than a trace of phosphate of ime in the Marlbourne marl, or in any other f this neighbourhood.

All the specimens of olive earth of which he analyses are reported above, were overlying ocene marl, except those from Hybla and Cher-

Several different circumstances concurred to ause me to suspect, previous to 1853, that the lack gravel of the olive earth and marl was ich in phosphate of lime. I had seen such ravel, though in small quantities, in all eocene eds; and this marl I had found much more ertilizing than the miocene, when equal in heir carbonate of lime, the main fertilizing ngredient, and usually the only one in mioene marls. The same gravel is still more bundant in some parts of the olive earth. ad heard it remarked by users of this earth, hat it seemed to be the better as manure where the black gravel was most abundant. I ad evidences (in some specimens which I prwarded to Prof. Gilham) that this gravel, hough now extremely hard, had once been uite soft, so as to fill the interior of spiral hells, like the softest clay. I had also read hat coprolites, the petrified excrements of extinct narine animals, had been found in such quanties in certain beds of green-sand in England, hat they were separated, and ground to power to be sold for manure—as these coprolites onsisted mostly of phosphate of lime. Also, n Prof. Emmons' first report of his geological urvey of North Carolina, he stated having ound coprolites in the eocene marl on Cape Fear river near Wilmington. Putting all these hings together, I thought it more than probble that the small black gravel in our olive arth, and in eocene marl, was coprolites, and herefore mainly of phosphate of lime, and inicating more, invisible, diffused through the ed. This has been proved to be correct, by rof Gilham's recent analysis of this gravel. so far as the quantity of these coprolites may o, they contain as much phosphate of lime as ones, and add more than half of their weight f phosphate of lime to the olive earth or marl n which they are imbedded—and so much in ddition to whatever there is in a finely dividd state, and reported in sundry specimens calculate upon the absolute certainty of

quantity of olive earth applied here was 400 from which the black gravel had been separated. But though this gravel in some rare cases lies thickly through very thin layers of the earth, it is never abundant enough to be separated for grinding—and its extreme hardness, and very slow disintegration in the soil, as well as the small quantity of all yet observed, narked early benefit. I formerly supposed that will prevent its presence adding much to the pur peculiar eocene marl (judging from its efvalue of the whole quantity of the finely diects) contained phosphate of lime—which, if vided portion in phosphate of lime in the olive

EDMUND RUFFIN.

Marlbourne, Oct. 7th, 1858.

For the Planter

#### A Plea for Innocence.

There is a large class of innocent sufferers in our country, which deserves more of human sympathy than it is accustomed to receive. This is the class of girls, growing up to womanhood, in the midst of that strange process, called education. Large and costly establishments are constantly being erected all over the country, devoted to this purpose, and the girls of thousands of families, are sedulously congregated within them, to undergo, for about ten months in the year, the discipline of the boarding school. Many of these girls become proficient in learning to such an extent as to excite the admiration of friends; and evidences of their success are furnished us in long, newspaper columns, of exquisite specimens of composition, and in the ample pages of annual reports. Truly, we must be in a fair way to become a learned people. Our admiration is challenged of so great a good, and while the daily press resounds with its praises, we are scarcely at liberty to withhold it. But to the intelligent admirer of female excellence, this admiration is not unmingled with commisseration. He sees and admires mental cultivation, and the requisition of knowledge, but he becomes fully aware, at every glance into these institutions, of the inutility of mental improvement without its necessary adjuncts, bodily health and While the former appears to be boastingly secured, the want of the latter inspires him with the deepest compassion.

It requires only a modicum of physiological knowledge—indeed it requires only a little observation and common sense--to enable us to place a proper estimate upon the importance of health, and to overworked minds in immature bodies. of their great grand-children childless. Look at the routine of duty in our best model boarding schools. From early for such evils. It should be required that given number of minutes; the calls of namarked neglect.

thinks of bodily invigoration. In addition cise. to all this, there are many of these schools in the middle and Southern States, in which girls contract and practise the habit of dipping, or the use of tobacco in its most injurious and revolting form—a is liable. The results of such vicious sense of the term. school-training are appalling. The vic-

enfeebled constitutions, resulting from their name and lineage in the extinction

morn till close of day, and many times all schools of this kind devote an equal until bed-hours, the constant requirement time to physical and to mental training. If is study, study, study. In profound sites would have their daughters to enjoy lence, seated like statues upon hard the health, and exercise all the fundbenches or chairs, which obstruct the tions of womanhood, they must secure for free circulation of fluids in the lower them the advantages of exercise, fresh limbs, with benumbed and often cold feet, air, wholesome food, and enlivening and with an aching breast and back, and with cheerful amusements. These are essenthrobbing temples, girls in these schools tial, and it will be found that when oneare expected to carry on six or eight half their working hours are devoted to branches of study at the same time, to be these objects, they will learn more, and perfect in every lesson, and to send home learn it better than under the vicious sysweekly, or monthly, satisfying evidences tem which I have described. One hour is of the success of this tread-mill work of full long for any youth to be engaged in an excited brain. Sleep sufficient for the uninterrupted study, and longer, indeed, health of growing bodies is often denied than any one can apply the mind closely. them; unpalatable, and therefore unwhole- Relaxation should follow with bodily exersome food is thrust into the stomach in a cise, in the open air when the weather will permit, and at other times in rooms or ture are disregarded, and no effort, no in- halls separate from the school-room. Betellectual machinery is untried to excite a sides walking and running, various forms spirit of emulation, which will impose the of celesthenic exercises may be used, heaviest labors upon the mind, while the among the best of which are dancing and body is all the while suffering the most marching with music. Nothing tends to cultivate graceful movements so much as Notwithstanding the long established those exercises which keep time to music, maxim which teaches that sound minds while the muscles of locomotion are can exist only in sound bodies, no parent brought into more harmonious and healthasks what is done for health, no teacher ful action than by any other plan of exer-• A. P. MERRILL, M. D.

For the Planter,

#### Tobacco

The bane of Virginia husbandry—as habit which affords them assistance in will be shown under the three following their mental labors, but which inevitably heads, viz: First, because it requires more destroys the tone of the nervous system, labor than any other crop. Secondly, it and invites attacks of the most painful is the most exhausting of all crops; and, diseases to which the female constitution Thirdly, it is a demoralizer in the broadest

Under the first head it will be seen at a tims enter upon the career of adult life, glance, that it must require more labor without a single qualification for healthful than any other crop, because it is a full an vigorous womanhood. Their children year and a half on hand. From seed-suffer with enfeebled constitutions, large, time till harvest the wheat crop, in this nervous development, and excessive bodi- climate, requires eight months and a halfly and mental irritability. Generation and but ten months, including six weeks, succeeds generation with constantly in- enough for every enterprising farmer to get creasing inferiority, hereditary diseases his crop to market. From corn planting appear and make sad havoc with human to the end of housing-time-eight months. life, and the sturdy couple who begin the Oats little more than half this time—in married life in great bodily prowess, lose short, all other crops except tobacco, are

ives way."

The history of the agriculture of the han the tobacco crop on a Virginia plan-

s a staple crop. To begin aright, we must commence vith sowing the seed. "Plant patchground," are household words with tobaco planters—and mean the richest virgin soil; some rich hollow, or piece of branchpottom being selected,—the deeper in the orest the better, because less liable to the ly or tobacco flea-other things being equal, branch-land is preferred, as in dry seasons the branch-water may be used to rrigate the young plants-a work required more or less every season—and, under he tobacco rule, never omitted at any expense of time or labor. Hickory, walnut, pawpaw and redbud are known to be the growths indicating the richest mould—and apon some spot where these most abound, the work of making plant-beds is usually commenced, the first week in the new spots, in the depths of the forest, as are terial.

nade and gathered in within the year—but most densely covered with the heavies  ${}^{
m t}$ s it takes 18 months from the sowing of growth are preferred, because they afford obacco-seed to getting the crop to marthe large quantity of fuel required "to et, it is evident that for six months of burn the plant-beds," a process deemed he year the planter must suffer the em- absolutely necessary to success.\* The parrassment of having upon his hands at size of the plant-patch being determined, he same time, the old crop and the new. the timber is not only cut off from its sur-Every practical man will see the trouble face, and mauled into suitable lengths for ncident to such a state of things as this, burning, but a large margin around is also nd especially of a crop of the uncompro-nising demand for all the labour it re-the heaviest forest growth does not afford uires, like the tobacco crop, and which, fuel enough to burn its own surface suffiy an invariable rule of every plantation, ciently for plants; and besides, it is neso long as anything is required to be cessary to remove the adjacent forest to one for the tobacco, everything else let in the sun in order to encourage the early growth of the young plants.

It may safely be assumed, that for every world may be challenged for a crop more given number of superficial yards of land laborately tended from beginning to end sown in tobacco seed, at least three times more is cleared of its timber, to answer ation—and thus it is, that while full just the demands of burning, fencing and letice is done to it under the rule already ting in the sun. This will afford some idea nentioned, as fixed and unchangeable as of the consumption of the finest forest he laws of the Medes and Persians, every timber annually for this item in tobaccohing else is starved. And when we have making districts. Although in former dverted to some of the prominent de- times this waste of the material for lumails of the culture of this all-absorbing-ber, by reason of its abundance, was abor crop, it will be manifest it will be thought nothing of-now, in the altered ustly liable to the charge of being the bane circumstances of the country, leaves toof all good husbandry; and here may be bacco fairly chargeable with ruinous conuper-added an insuperable barrier against sumption of one of the essential articles he attainment of the higher degrees of of rural economy, and by the nature of ural economy in any community where it things growing annually of more importance, the material of fuel and lumber.

The wood being cut into proper lengths, and mauled into convenient sizes, with the brush of the limbs chopped and mixed with it, is laid in a ridge along one side of the proposed plant-patch, 4 feet wide, and about 2 or  $2\frac{1}{2}$  feet thick, with the intermixture of brush-this being green wood, must be set on fire at first with light-wood or seasoned fuel, its whole length and breadth; and when well fired, adding from time to time fresh supplies of fuel, and keeping the fire up until the surface of the earth is sufficiently burnt, indicated by a reddish appearance or calcined state of the soil. The fire is then moved to the next space of four or five feet-this is

<sup>\*</sup> The consumption of large quantities of the year—though many begin before the finest fuel—for none other will answer, together with the hauling and careful management of the process, composes a large item against the allby so much this all-absorbing crop. Such devouring staple of labor, time and precious ma-

ends; so that two or three strong hands can take hold of the burning logs and roll then from the ridge of fire to the next place to be burnt; in the meantime the weaker hands have brought brush to intermix with being added to the mass, the fire is kept up until the process of thorough burning is again completed—and thus by another and another removal and replenishing the fires, the whole surface of the plant-patch is burnt, and is ready to be hoed up for sowing the seed.

This applies chiefly to the plantations of rich, virgin soils, when first brought into cultivation, but since the new impulse given to the tobacco culture by the high prices and the use of guano-many expedients are resorted to to raise plants where the best soil has been long ago used up; but in any circumstances, the time and labor necessary for the plant-patches must be given-and although the recent use of guano has saved something in both-still this plant-patch work must be a large item

in the tobacco culture.

The ground being ready for seeding, is carefully broken up by hand-hoes about four inches deep, taking out every rootfibre, and mixing the covering of ashes left by the fires with the soil-raked, levelled and marked off into rows three feet wide, and one-half the proper quantity of seed for the whole patch sown, and afterwards the other sown between lines across the first, in order to insure an equal distribution of the seed. Then after treading over the whole surface, it is ready for covering. The straightest brush, free from leaves is preferred for this purpose, and is compactly laid from 18 inches to 2 feet thick upon the ground. This straight and leafless brush is not often found near, and is sometimes a mile off, but be it far or near, it must be had, for no pains are ever spared in whatever concerns the tobacco. All this done, the whole is inclosed with an ample fence-which makes another draft upon the adjacent timber for the necessary fence rails.

Thus the choicest spots of virgin soil in

done by long poles with iron hooks at the of the process of producing this staple of Virginia agriculture. This business of plant-patch making takes up usually from three to four weeks of every winter. The rule is to provide a thousand superficial yards in plant-patches for every 100,the burning logs, and fresh supply of fuel 000 hills in the crop-but three or four times this proportion of plant-land is usually prepared in order to insure successand after all, we often hear of scarcity and failure in plants. In a favorable season, there are always four times as many plants raised as are necessary to plant the crop-and of course three fourths of the labor and consumption of the timber in raising plants, being thus surplusage, is a dead loss to the planter, to say nothing of the diminished value of his estate by these depredations upon the forest lands, a degree of reckless wastefulness incident to no other crop. In an unfavorable season the loss is still greater-for when it is too dry the plants are watered, and when they grow slowly they are stimulated by top-dressing, and when the fly assails them they must be driven off or destroyed by promptly resorting to some of the innumerable expedients invented by this class of cultivators of unequal vigilance in all the other departments of agriculture in this country or in any other. For, as has been already said, whenever anything can be conceived or imagined likely to affect the plant-patch unfavorably, or the tobacco crop in any of its stages-it never escapes the tobacco-maker, and heaven and earth are moved forthwith on that plantation, until the needful or imaginary remedy is provided-cost what it may in labor-in teams, in vehicles, in manures both liquid and pulverized. If the plantpatch wants watering, it is irrigated, although the water, as is often the case, must be fetched in tubs or pails on the negroes' heads from a considerable distance. Some of the remedies against the fly, a regular pest more or less, are sweeping the surface with soft brooms, covering the plants with various powders of supposed offensiveness to the insects-shaking a sheet with the lower side covered with some glutinous sizing to catch the hopping the tobacco districts are cleared for insects which stick to its surface, &c., &c., making plants, and afterwards left as consuming an amount of labor and time useless wastes, that but mark the expen-|hardly to be conceived but by one unacditure of sturdy labor, and vast consump- quainted with the details of tobaccotion of the finest timber in this first stage making. In short, the tobacco is the idol

only the leavings of this insatiable consumer of labor, manure and time, is starved surveyor. iterally, and the fatal consequences are every where discoverable through the and—as will be further seen in the sequel.

Having disposed of the plant-patches or a time, except the unceasing watch I gainst the fly, and to promote early growth by watering and manure, an interval is presented for clearing new ground or the next crop, and when the weather s unfavorable for out-door work, for carying on the stripping process of the last rear's crop. Here we are brought into ull collision with both crops on hand at he same time—the new crop in the plantpatch and the old crop in the houses. But to proceed in order, we must account or the presence of this old crop now in he houses; this, of course, the product of ast year's plants, after the elaborate cultivation by which it has been raised, (the letails of which shall be given when we go back to the plant-patches now on hand) nas been cut when fully ripe, a state vhich requires\* a shrewd judge to decide, partially cured on scaffolds, and finished by firing in the houses. It is then struck lown from the tiers on which it is hung in he houses on sticks rived for the purpose, during some damp and warm day in utumn or early winter, in proper order or handling, or technically in "case" aken from the sticks, packed down careully and straight, in close bulk, and covered thickly with wheat-straw, to exclude the air, and keep it "in case."

For the Planter.

# Mr. Winston's Wheat Crop.

WESTWOOD, Oct. 22d, 1858.

ED. SOUTHERN PLANTER:

Dear Sir.—I herewith send you a statement of my crop of wheat for the present year. From it, interesting information

God of the plantation, before which every | may be derived respecting the utility of hing else is thrown down and trodden guano as a manure for wheat. The land inderfoot: hence everything else getting on which the wheat was grown, was surveyed with great care by an accomplished

Number of acres in wheat,	113
Wheat used for seed,	21 bus.
Quantity of guano (Peruvian) used,	3000 lbs.
" per acre,	
Product of wheat per 11\frac{3}{4} acres,	226 bus.
" per one acre,	191 "

### Cost of Production.

Preparation of land, sowing and reaping, @\$5 per acre, Threshing and hauling 226 bushels, Cost of seed wheat @\$1 40 per bu., Cost of guano @\$60 per ton,	\$58 12 29 90	00
Total cost,	\$190 316	15 40
Net proceeds,	\$125	25

It is estimated that the same land, without guano, would have produced 10 bushels per acre, or 114 bushels for the whole field.

Cost of production same as before, except as to threshing, hauling, and the gu-Thus:

Cost of production, . Proceeds of 114 bus. @ \$1 40 per bu., 159 60 Net proceeds, \$65 45

Now \$125 25 - \$65 45 = 59 70,—the amount of profit due to the \$90 outlay for the guano. This is an enormous profit, being about 65 per cent.

## Mode of Cultivation.

Corn land deeply plowed with a twohorse plow; the wheat and guano being sown broadcast by hand, and put in with a two-horse cultivator.

I have taken more than usual pains to test, during a series of years, the value of guano as a manure for wheat. I have used about two hundred pounds to the acre. I am satisfied, that on land that will bring 15 bushels of wheat to the acre, it does not ordinarily pay a profit; especially at its present price. The question is often asked, "Is guano an improver of the soil?" To that question, two answers may be given. Under the clover-fallow system of farming, it is undoubtedly a

<sup>\*</sup> It is often threatened, and sometimes lost by early frost, which, from the earliest history of its culture, has been known to lead to the cutting of he crop on the Sabbath when deemed necessay to save it from a threatened frost before Monlay morning.

rapid improver. It improves by promot- not to impart, at best to gain information, ing a larger and more luxuriant growth of by drawing out others upon the subject. clover.

The introduction of guano, however, has given rise to a system of farming, which deserves the reprobation of every intelligent and dutiful son of Mother Earth. This is the practice of cultivating the same land in wheat, or oats, every year, guano being relied on as a fertilizer. The soil is thus soon exhausted of its proper proportion of vegetable mould, or humus, on which its productive capacity mainly depends; and sterility must eventually ensue. And, verily, the last state of such land is worse than the first. can point to fields that have been cultivated in this way. From once being rich, they do now show unmistakable signs of deterioration. They produced well for the first two years—then there was a gradual declension, and the crop of the pressoil can retain its fertility long, if it is subjected to a system of cultivation that exhausts it of its proper supply of either mineral or vegetable matter. The one will not take the place of the other. Viewed, then, in this aspect, I unhesitatingly give a most decided negative to the question under consideration.

In conclusion, we would ask attention to the following question: Was not the failure in the wheat crop this year most signal on land deficient in vegetable mould, or that have been in wheat and guano several years in succession? To this question my own observations would give a negative answer. The question is considered important in its bearing on the use of guano, and it is hoped that it will elicit answers of such a kind as to justify the establishment of a general principle. Very respectfully,

JOHN H. WINSTON.

For the Planter.

Sorghum Molasses.

SYLVAN VILLA, Oct. 19th, 1858.

To Ed. Southern Planter:

your excellent journal, hoping thereby, if thes as to one. I prefer greatly cast ket-

Last spring I planted some five or six acres of rich alluvial land in Sorghum, expecting to feed it to stock: but this fall, believing I could contrive an apparatus for crushing it, more effectual than the common apple-mill fixtures used, I had a machine built on the old cotton-gin principle, at a cost of some ten or twelve dollars, which acted so admirably, that I have gone on to make several hundred gallons of the richest, finest syrup I ever tasted. If you or any of your readers doubt it, come up and taste for yourselves,—and if Dame Nature has developed in you the gusto sense, and connected it with a good judgment, I fear not your verdict.

I am convinced that, properly managed, Sorghum may be made one of our

most profitable erops.

Corn, you know, in the hands of the ent year was almost a total failure! No aborigines, and our forefathers, was comparatively valueless for bread, when the meal had to be grated on a tin, or pounded in a mortar. Wheat was reluctantly adopted as a staple when it had to be trod out with horses, and wagoned several hundred miles to market. So I fear Sorghum has been decried when it has had to be crushed and re-crushed through an old applemill, and then taken to a tobacco prize or cidar press to get its stores of sweet things ready for the kettle, and indeed I am inclined to believe that it has been too often taken before its time, while yet in an immature state,-the result of which has been the production of an imperfect, ill-flavoured syrup. Nearly all in this region had finished making up their cane before I commenced; and though I have been making about three weeks, I find the ripest cane produces the richest, clearest and best flavoured syrup. It, however, does no yield quite as much.

> I find on an average about six gallons of the juice will make one of syrup, of

proper keeping consistence.

After the cane is cut and stripped of its fodder, two hands can crush and boil down about twenty-five or thirty gallons of molasses per day. A sixty gallon ket-Dear Sir.—Having experimented to some tle, fixed in a brick furnace, will boil extent this fall with the Chinese Sugar down in about twelve or fourteen hours, Cane, I feel disposed to give some account and yield about ten gallons; and it is nearthereof to my brother farmers, through ly as easy to attend to three or four kettles to copper, as they boil after becoming hot much more steadily, and are not half

so apt to scorch.

Sorghum requires about the same amount of tillage as corn, and one hand could easily till ten acres in addition to ordinary farming crops. On good land, I believe the cane will yield about one hundred gallons of syrup,--which, at 50 cts. per gallon, would amount to \$500 Deduct \$100 for expenses, and allowing the seed and fodder to pay for tillage, we have left \$400 nett proceeds for ten acres, or \$40 per acre.

Tobacco, at 4500 hills per acre, and seven plants to the pound at six dollars per hundred, would yield \$38 58, and require three or four times the labour of the cane, and give no pay above that for its tillage. So if we were to reduce the cane to fifty gallons per acre, it would still "pay better" than tobacco. There may be none of the Sorghum lost, for even the stalk, after it is pressed, if dried and stored away, I have no doubt would make a fine winter feed for horses and milch cows, by cutting and soaking them, and rolling them in meal or chop. Much saccharine matter is left in them, even after the most effectual pressure, which, I doubt not, would be fine for horses, cattle or hogs. I run them under a pressure of about three or four thousand pounds, and yet my hogs thrive rapidly on them.

I have no doubt that the finest quality of vinegar may be made from the juice, and if so, one acre that would make 100 gallons of molasses, would make from 800 to 900 gallons of vinegar equal to the best apple vinegar; -- say 800 gallons, at 121 cents an acre, would give \$100. This, however, is conjecture, for I know not the loss in making vinegar. But reduce this one half, and the ten acres (a hand's crop) would yield \$500; and the expense of making the vinegar would not be half

that of molasses.

I have no doubt it might be distilled into spirits profitably; but that I shall never try.

Pardon prolixity, &c.

J. F. E.

Good FRITTERS .- To a pint of good buttermilk, add a little salt and a tea-spoonful of trial. soda; stir in flour enough to make a thick batter. Fry in hot lard. 46

For the Southern Planter.

### How to Keep Sweet Potatoes.

Having noticed a call for information about the "safe keeping of sweet potatoes," not in yours but in other agricultural papers, I comply at once with the promise made some weeks ago, and which you have perhaps forgotten.

From repeated observations, made some fifteen years since, it appeared that weight and moisture were the only causes of rot among root crops, provided they are sound when stored, and the frost excluded.

Roots put away in rainy, damp, or foggy weather, have a poor chance of wintering well; if bulked under such unfavorable conditions, they should be afterwards dried by the sun and

wind, or by the fire.

No damp situation will answer for the safe keeping of root crops. The digging should be effected, if possible, in dry weather; if you must dig them in a moist condition, be sure and dry them before finally storing them away. All sources of moisture being guarded against, half the battle is gained, but in the next place

excessive weight must be avoided.

The best depth for a heap of sweet potatoes is about 18 to 20 inches, and the liability to rot will increase in direct proportion to the increase of depth over that limit. So after laying that depth of roots, have boards laid over, supported strongly at each end, not touching the mass below, but allowing two or three inches for ventilation; this process of shelving, or flooring, at every 22 or 23 inches, may be continued to the joists.

In very cold localities additional precautions become necessary; the frost is there the main enemy, and sawdust, dry chaff, pine leaves, or other thoroughly dry material must be laid under and over the roots to the depth of five or six inches, which will require that the shelves, or floors, be placed 10 or 12 inches

farther apart.

I have used a structure resembling an oldfashioned cup-board, made of refuse plank. with shelves about 20 inches apart, and found it to answer well, except that a good lock and key would have been a valuable improvement.

In constructing a potatoe barn, I find it well to pave with brick, on account of rats; and to exclude cold, the walls are stuffed with dry chaff, slats being nailed on the inside of the studs, or posts, for that purpose; between the interstices of the slats, or narrow boards, and at intervals of about 20 inches, the shelves, as above described, find support.

Other modes of storing roots may answer as well, with regard to frost, but few plans will afford equal security against thieves as the above, which have never failed in fifteen years

Respectfully

. LUCIUS DAVIS. N. B.—The above hints will be found useful and to some extent applicable to the winter of Nature, that man is rendered emphatically, storage of every variety of root crop, as well as apples or other fruit.

Decay begins at the bottom of the mass, where weight and moisture are greatest. J. L. D.

We regret that Col. D.'s letter was received too late for insertion in our November number; but thinking it probable that other engagements had caused him to forget to furnish us with an account of his plan, we wrote a short and imperfect sketch of it for that number, which we will now retract, and give our readers the Col.'s own directions instead of our hasty

This method of storing sweet potatoes has been thoroughly tested, and is no mere item of "book farming"-but may be relied on .-EDITOR.

The Wonderful Nature of the Human Mind, Exhibited in the Power of Mind over Matter.

No stress will here be laid upon the mysterious connection between the mind and the body, by which the former controuls the voluntary movements of the latter, because this, wonder ful as it is, does not distinguish man from the brutes. I refer to that power, by which man subjects the whole material world, animate and inanimate, organized and unorganized, to his personal use and convenience. There is not a substance in all the earth's constituents or productions, which he does not somehow employ for himself; not an animal or an insect which he does not convert in some way into a minister to his real or imaginary good; not a principle or law of Nature, which he does not make subservient to some personal purpose, as soon as it is discovered.

What are the varied and nameless comforts that belong to eivilized society, as distinguished from savage, but so many different instances of the mind of man, turning the powers and susceptibilities of matter to accommodate his own wishes? Some of these powers are of terrific energy. But, the mind of man fearlessly puts them in bonds to do him service; and with an obedience, as amazing for its submissiveness as for its efficiency, they act at his bidding. Fire and wind, the mighty ocean, steam and the lightning itself, wait, as it were, upon the will of man. The astonishing facilities for intercourse between distant places which now exist, and are daily becoming more numerous, and the extreme ease and the prodigious rapidity with which all the utensils and fabries and multitudinous articles of utility, pleasure and luxury are now furnished to the mind over matter. It is by this controul over

"lord of this lower creation."

Thus-

\* \* "Man is one world, and hath Another to attend him.

And here, one cannot help thinking of the folly and atheism of that philosophy of ancient times, which represented matter as the fatal enemy of man; which loved to discourse of body and spirit as antagonist principles. If they have indeed been foes from eternity as such phylosophy imagined, it is now obvious enough, that the spirit has gained the mastery, and is likely to hold it, and the more the gross things of sense shall resist the supremacy, the more strengh for command will the mind gather from the very resistance; since all the resistance that matter can make is, by disclosing its own properties and laws, and every new property or law thus disclosed, is instantly converted by the mind into a new servant and minister to itself. But it is a more ennobling view as it is the only rational view, which christian philosophy-the only true philosophy now gives us of the case. This points out to us a most striking manifestation of the power, wisdom and goodness of God the Creator, in so aecommodating to each other the nature of mind and the nature of matter. The adaptation is truly wonderful, and shows demonstratively, that "God, in constructing the vast mechanism of Nature, overlooked not the humblest of its parts, but incorporated the good of our species with the wider generalities and laws of a universal system." The properties and laws of matter are all fitted to subserve the purposes of the intelligent mind. Every new triumph over external Nature, every new instance of a mastery acquired by man over the elements which surround him, is a new development of this interesting truth; showing more fully how mind and matter have been adapted to each other; "the first endowed by the Creator with those powers which qualify it to command; the second no less evidently endowed with those corresponding susceptibilities which cause it to obey."

Now here is the argument: the material world is indeed wonderfully made, and appears especially so in its adapted subserviency to mind; but the mind appears thereby still more wonderfully made, as it is by its own nature fitted for such command.

And we must not overlook a peculiar consideration, that gives great force to the argument, viz: the fact, that the material world is thus made to contribute to the interests of man, only by his applying to matter the results of long processes of abstruse ealculation, the principles of the most abstract sciences, the pure inventions of the mind itself. As for exworld, are merely the results of the power of ample, the position of the north star, the inclination of the earth's axis, and the polarity of the most wonderful energies and capabilities the magnetic needle, are material facts seized

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by the mind of man and made subservient to
the business of navigation; and who can de-
scribe the blessings which are secured to the
human race, by this one instance of adapta-
tion? And yet, of what service would it be with-
out the science of mathematics? The expansive
force of steam is now contributing immeasurably
to the comfort of man; and yet, of what use
could it be without the intricate science of
mochanics? Thus it is by the help of its own
pure abstractions, that the mind holds its sway
over the powers of Nature, and makes all the
bodies in space, and space itself, to minister to
his wishes.—Memoir of Fiske.
A Table,
To show at a clause the number of bills or plants

To show at a glance the number of hills or plants contained in an acre of land, at any given distance from each other, from 40 feet by 40, to 1

foot by 1, omitting fractions.					3 0	2640			10722	
feet. fcet.	per acre.	foot	fcet.	pr acre		2 6	3168		1 0	13403
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38 38	30		5	670		1 0	7920		2 6	5808
37 37	31	12 :		302	5 0	5 0	1742		2 3	6453
36 36	33		10	363		4 6	1936		2 0	7260
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	35		5	720		3 6	2489		1 6	9680
34 34	37	11 1		360		3 0	2904		1 3	11616
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From Hunt's Merchants' Magazine.

#### TEA.

Character of the Plant—How Cultivated—Times of Gathering—Varieties of Tea—Progresses of Preparation—Scenting—Character of the Chief Varieties—Varieties of Green and Black—Uses and Constitutional Effects—National Use—Universal Influence of Tea—Chemical Constituents—Physiological Effects—Nutritive Properties—Theine—Climatic Adaptation—Suited to the United States—Counterfeits and Adulterations—Poisons, and how to Desect Them.

Tea consists of the dried leaves of the Thea Sinensis, an evergreen shrub, belonging to the family of Camellias, which are native to China, Japan, Cochin China, and the southeastern part of Asia. It is a hardy plant, and, in the uncultivated state, grows to the height of fifteen or twenty feet, but, as cultivated in the tea-fields, rarely ever grows higher than six or eight, and generally not more than four or five feet.

The leaves are alternate, eliptical, pointed, toothed and firm, smooth, shiney, and deep green; from one-and-a-half to four inches long, and from half an inch to an inch-and-a-half wide. The flowers are white and large, borne on short peduncles, single or united in small clusters at the axils of the superior leaves.

It is generally propagated from seed, and arrives at maturity in from two to three years, when it is capable of yielding two or three crops of leaves, and sometimes four, annually. The first gathering takes place in early spring, the second about the 1st of May, the third in June, and a fourth in August. The first gathering produces the finest variety of tea. It chiefly consists of the young leaf buds and small leaves, from which the best *Pekoe* and the finest varieties of black are made.

The later gatherings consists of the larger and older leaves, which, by long exposure on the plants, have lost part of their flavor, and become less valuable. Hence, it is found that the finest teas usually consist of the smallest leaves. At the first gathering the leaves are slender, smooth and even-edged, twisted, and downy. Second gathering takes place just as the leaves begin to have veins, and their edges delicately notched. At the third gathering the veination is fully developed, the edges coarsely notched and wavy.

Until late years botanists designated several species of the tea plant, but now it is generally conceded that all the varieties of teas are obtained from one and the same plant, the differences in the tea from which depending wholly upon the soil, climate, weather, age of the leaves and mode of preparation.

Varieties.—Black teas are mostly produced from plants growing on the slopes of hills and mountain sides, a range of which, called Bohea mountains, being the origin of the variety of tea known as such. On the other hand, green teas are generally produced from plants grown on cultivated and manured plains. Other qualities depend upon the processes of preparation, in drying, rolling, etc.

Bohea is usually prepared from the full-grown leaves of the third gathering, and is, therefore, the commonest and cheapest variety. Souchong, Congou, Padre-Souchong, Caper-Souchong and Pekoe—which consists of the first gathering, and hence called "flowery"—are gathered early and of finest quality.

The principle varieties of green teas are Young Hyson, Hyson, Hyson-skin, Twankay, Imperial and Gunpowder. This last, in green tea, corresponds to Pekoe, in black. Imperial, Hyson, and Young Hyson are of the second and third gatherings. Hyson-skin chiefly consists of the refuse of other varieties, or is produced by a fourth gathering.

Processes of Preparation.—Tea leaves in their green state contain an acrid principle, which may be dispersed by heat .-This is accomplished by the process of roasting, and for this purpose a large iron The leaves dish, called a kuo, is used. are first dipped into hot water, and after drainage they are spread upon the kuo, which is at first only raised to a moderate degree of heat, and only has the effect of rendering the leaves soft and pliable. They are then removed and first submitted to the first rolling. For the very finest qualty, each leaf is rolled separately, but more commonly the leaves are spread upon large tables covered with straw mats, and rolled by rubbing them with the hands, or between the palms.

This operation is continued until the leaves become cold, when they are again submitted to the *kuo*, and the process repeated. The best kinds are heated on the

kuo, and rolled three or four times before so on until the chest is full. they are deemed of maximum quality. For then tightly closed and so kept for green teas, this completes the prepration of twenty-four hours, on the expiration of the finest varieties. Inferior qualities are subsequently flavored.

Black teas require an additional process, viz: to be heated in sieves over a hot charcoal fire. This has the effect of more perfectly driving off the acrid principle, and rendering the leaves drier and more brittle.

As thus prepared, the finest early gathering are, when last from the kuo and sieves, before getting cold, packed for exportation. But the quantity of this

is very small.

Scenting.-By far the larger quantity of tea known in commerce has been aromatized or scented. A knowledge of this process, and the materials used in it, was, until very recently, kept secret from foreign nations. But it is now generally known that the Chinese employ for this purpose certain rare vegetable productions, which have the effect of imparting desirable flavours to tea, without in any way affecting its natural properties. And some of the teas thus treated are known to be among the most eagerly sought after.

The only substances known to foreigners, with which the Chinese flavour tea, are the flowers of the following plantsa species of chloranthus, call by the Chinese Chu-Lan; the Gardenia florida, or Pac Sheem; the Olea fragrans, or Ruy-fa; and Jasmimum Sambac, or Mos-Sy-Hoa. As already remarked, these plants are all scarce, even in China, where they are native; their use, therefore, is in every way calculated to enhance the value of the tea in which they are used, notwithstanding the Chinese themselves, as well as all other persons who have had the opportunities of judging, agree in the opinion that only common teas require scenting, and that, however exquisitely this of fresh and hazel-nuts. process may be accomplished, the very ultimatum of success is only, after all, a faint imitation of the finest Souchong, the natural flavour of which being far more delicious than it is possible to communicate to an inferior variety.

When tea is about to be scented, it is taken hot from the roasters and put into a chest in a layer of two or three inches deep; upon this a handful of yellowish, and sweet. It is the strongest freshly gathered Chu-Lan flowers are of black teas. strewn. Then another layer of tea, and Bohea.—Leaves of all size, with frag-

which time the chest is opened, and the tea and flowers thoroughly mixed and submitted to the drying process in seives, over a charcoal fire, until the flowers become crisp, when the whole is removed and the flowers sifted out. If the tea is found to be sufficiently flavoured the process is now closed; if not, the operation is again repeated.

The tea thus prepared is mixed with others, in the proportion of about one part of the scented to twenty of the plain, when the mixture is moderately treated in the kuo, and immediately afterwards while warm packed for use or exportation, and

is known as Cowslip Hyson.

Black teas are also scented with Chu-Lan flowers, but in a different and more expensive manner, as it takes a larger quantity of the flowers. The flowers are first carefully roasted, so as not to burn them, and then reduced to a fine powder. This is sprinkled over the tea during the process of the last roastings, previous to packing. Some of this constitutes choice varieties of Souchong or Caper teas, and the Tet Siong. The Pac Sheem flowers are used for senting a still more exquisitely fine Souchong, which is chiefly used for diplomatic presents, and rarely found in commerce. Ruy-fa and Mos-Sy-Hoa are also exclusively used for scenting black teas, of Souchong flavours.

Character of the Chief Varieties .-BLACK TEAS.—Pekoe.—This is the finest and has most aroma. The leaves are slender, of a dark silvery colour, covered with a light silky dust; ends speckled with gray, black and white spots. Odour agreeably aromatic; infusion of golden-yellow colour; taste somewhat similar to the flavour

Congou.-Leaves thin and short, of a grayish-black colour; infusion clear, strong and agreeable.

Pouchong .- Leaves large, long, and tightly rolled, mixed with a large quantity of leaf-stocks; odour sweet; infusion green.

Souchong .- Leaves larger than Congou, but not so large and long as Pouchong, thin and rather broken; infusion clear,

ments and leaf-stocks; of a grayish-green colour, rolled longitudinally and crosswise; very dry and easily broken; infusion redish, of a somewhat smoky taste. If let stand, deposits a blackish sediment.

GREEN TEAS.—Hyson.—Leaves long, straight,, spirally twisted, and firmly rolled, but dry and easily broken; odour sweetly aromatic; infusion of clear, citron-yellow colour. It is the most esteemed of all green teas.

Gunpowder.—This is distinguished from Hyson by being in smaller particles, still more tightly rolled, but less easily broken; of dark green colour; infusion clear, gol-

den green.

Impereal.—Much like Gunpowder, only in larger grains, and very hard; of silvergreen colour, and some of its grains resemble pearls.

Hyson Shoulong.--Resembles Hyson,

but more fragrant.

Hyson-junior, or Yu-tseen .- Is composed of some small delicate leaves, nicely rolled, and very crisp; of yellowish-green colour: odour agreeable, resembling violets.

Twankay.—Large yellowish leaves, badly rolled, and strong odour; infusion limpid, bright yellow; sweet, rough taste.

Hyson Skin.-Leaves yellowish brown, irregularly rolled; odour nearly null, and of ferruginous taste; infusion bright yellow, and turbid. It is the Bohea of green teas.

Uses and Constitutional Effects.—Tea was first known in Europe by being taken there from India by the Dutch in 1610. It was introduced into England by Lords Ossory and Arlington, from Holland, in 1666; and being much admired by the nobility, it was imported from thence, and generally sold for about 60 shillings per pound, and until the trade was taken up by the East India Company. Green tea was first used in England in 1715. Our colonial ancestors brought their tastes with them, and finding the conditions of the American climate such as to promote the use of a beverage which imparted hygienial benefits, tea appeared to them if taken in large quantity tells particularly as one of the first necessities of comfortable digestion, which the lordly tea-lovers of England thought colonials had no right ment, at least, do not need tea, and may to enjoy; therefore they were taxed for be injured by it. To the oppositely conventuring to indulge in the Celestial stituted, however, it makes the blood cirdrink!

simmering on the shores of Boston and New York, was converted into a foaming and fuming tea-kettle, that at last boiled over, and so dreadfully scalded the imposters, as to require the use of the most potent revulsive known in the healing art of national discords. The burn has never perfectly healed, and it is doubtful whether it ever will; for, admitting the well-known properties of tea to promote nervous excitement, it is a homeopathical fact that from the year 1773, that most potent and powerful drug, theine, has been diffused through the oceans and seas of the world, and by the flowing and ebbing of tides and rivers, and by the infinitesimal division of the particles of watery vapour which have been distilled and redistilled in the mists and clouds of the universe, all nature is now under the influence of tea; which, my dear reader, accounts for the go-a-headative propensities of Young America.

Tea chemically consists of mucilage, extractive, resin, gallic and tanic acids, and an alkaloid called theine. It has, from the time it was first made known to civilized nations, been considered by some a powerful poison, which, though irregular, slow, and uncertain, is nevertheless likely to break out-as above demonstrated. The poisonous property is attributed to the alkaloid theine, which, in the strongest tea reduced to the nicest chemical analysis, is found to exist in the proportion of forty-six-one-hundredths of a part in a hundred. It is said to possess exhilarant properties. Physiologically, tea, coffee, and tobacco possess the remarkable quality of retarding the waste of the system, and so diminish the demand for food, and make a limited amount go further. To the majority of people, the habitual use of tea is of incontestible advantage. It is decidedly favorable to digestion for healthy persons, and frequently remediable to dyspeptics. It develops a slight degree of excitation, and on the nervous system; hence, it is apparent that persons of excitable tempera-Whereupon, the issue is well culate more smoothly, promotes digestion and cutaneous exhalation, and stimulates The great Atlantic, which was first set the intellectual faculties, while, as already

powder, it is infused in hot water for feet apart. awhile, and afterwards whipped with a split bamboo till it creams, when they drink both the infusion and powder, as coffee is used in many parts of Asia; when it is said "to temper the spirits, harmonize the mind, dispel lassitude, and relieve fatigue; it awakens thought, and prevents drowsiness; lightens or refreshes the body, and clears the perceptive faculties."

Chemists look for the properties of tea according to its elementary constitution; but the fact is, that however active the ingredients might be under other circumstances, they are so nicely balanced in tea that, when taken in their combination, the effects of no one of its constituents are particularly pre-eminent. Tea can never be employed for its tanin, nor injurious on account of the amount it con-The same may be said of theine tains. in a still lighter degree. Theine is a feeble base, precipitated by tanin alone from its solutions, and does not, in reality, concentrate any of the active qualities of tea, it being only an isolation.

The prevalent discrepancies regarding the effects of tea on the constitution are wholly due to the different temperaments of individuals, whenever such temperaments are specially marked; and the same may be said, too, as regards the differences between black and green. When employed in moderation, the particular variety may safely depend upon the taste and experience of the consumer.

Climatic Adaptation.—The tea plant and degree of elevation. It grows luxu- substitution of foreign leaves. riantly in the climate of Pekin, in the latitude of 40°, and equally well in the vi- ted than black, and of the latter, Congou cinity of Canton, on the verge of the and Souchong are the most pure; while tropics. The best tea, however, is produced in a mild, temperate climate, the such as Pekoe, Caper, Chu Lau, and black country about Nankin producing better Gunpowder, are more likely to be adulte-tea than either Pekin or Canton. But in rated than those apparently weaker. The any case, the tea plant is found to require leaves of the plum, ash, elder, hawthorn, a rich sandy loam, in order to bring it to willow, poplar, horse-chesnut, laurel, sweet

tity of food smaller which Liebig and more favorable to the growth of tea than other distinguished chemists attribute to its China. In Japan it is planted around the possessing positively nutritious properties. borders of fields, without much regard to The common way of taking tea every-situation or soil, while in China chiefly body is familiar with; but in Japan, among middle grounds have to be selected, and the wealthy, a more ancient mode is fol-much order observed in distance and cullowed. The leaves being first ground to tivation—the plants standing about four

By experiments which have been made of late years in South Carolina, tending to prove the perfect climatic adaptation of parts of that State to the growth of tea, and considering that the time cannot be long before the Chinese will form a much more considerable proportion of our immigrants than heretofore, there is just reason to believe that ere long tea will become an important agricultural product of the United States. In respect to latitude, elevation above the level of the sea, and other circumstances which modify the climate, our Southern States singularly correspond to those regions of China and Japan which are known to produce the best

tea. Counterfeits and Adulterations.—It is proper in this connection to state, that in order for tea to retain well its properties, it should be kept as free as possible from all moisture. Besides which, sea or ship air exercise a particular influence on the quality of tea, which ultimately destroys its aroma. The writer has frequently observed the result of this on the very best qualities of tea that could be obtained; no matter how tightly sealed, if kept at sea for a twelve month, it is scarcely better than so much of the dried debris of any other plant. It is well known that the shorter the voyage from China, other things being equal, the better the quality of tea.

The frauds in tea seem to have kept pace with the extent of its consumption. These chiefly consist in the employment flourishes over a wide range of latitude of artificial coloring matter, and in the

Green tea is more frequently adulteraperfection. Japan appears to be even brier, elm, and divers other leaves colored

with the salts of copper for green teas, and black tea does. Finally, the principles tea always in market. Millions of pounds of these and similar leaves are dried annually by the Chinese, by whom they are mixed with, and sold as tea. These mixtures, and the several varieties of tea, constitute many sub-sorts, which are colored, dusted, and packed in "original" boxes and papers, to suit the calibar of every purchaser.

Catechu, kino, gum, starch, sulphate of iron or copperas, rose-pink, logwood, blacklead, soap-stone, indigo, and turmeric, have all been isolated from black tea of "exquisite" appearance and "laudable" quality. In addition to these, green tea is treated with Prussian blue, mineral green, verdigris, arsenite of copper, Dutch-pink, chromate of potash, bichromate of potash, chrome yellow, chalk, gypsum, carbonate of magnesia, and many other substances which cannot be separated.

For the detection of these frauds it is absolutely necessary that the person examining be familiar with the appearances and structure of the tea-leaf, and to have

the aid of the microscope.

The properties of pure tea are known to vary, yet there are certain properties in common with which one may become so familiar as to be able to mark a departure The infusion of tea varies in from them. color between light yellow and dark brown. Concentrated and warm, it is limpid, but on cooling, it is found to hold in suspense To the Editors of the Courier, Zanesville. a fine, grayish powder, which renders the theine, perfect'y soluble in hot water, and ple: insoluble in cold; it is insipid, although theine, which is intensely bitter.

and a peculiar acid.

with logwood for black, have frequently contained in the infusion of the two sorts been found by those who have taken the are precisely the same, only they differ a pains to examine the various qualities of little in their proportions, black tea being

a little less marked than green.

With a little care most of the matters above named may be removed from tea by simply agitating the samples containing them briskly in a vial of distilled water for a few minutes, and then filtering. Insoluble powders may be thus collected, while the soluble substances may be detected by chemical tests already pointed out in previous papers, to which reference may also be made for the poisonous prop. erties of the substances herein named.

From the American Farmer.

#### Fat Pork as Human Food.

"A fat hog is the very quintessence of scrofula and carbonic acid gas, and he who eats it must not expect thereby to build While it up a sound physical organism. contributes heat, not the twentieth part of it is nitrogen, the base of muscle." Scientific American cordially endorses the above sentiment as being sound practical truth, and says-" Fat pork was never designed for human food. It is material for breath, and nothing more. See Liebig and other organic chemists and physiologists. It makes no real meat or muscle. prize fighter is not allowed to eat it. that is not consumed by the lungs, remains to clog the body with fat."

The short article in yesterday's Courier, liquid somewhat milky. When this pow-thus entitled, is calculated to mislead, and der is separated by filtration it is found to therefore I would offer the following reconsist of a combination of tanin and marks in reference to our great Ohio sta-

A fat hog is truly the quintessence of formed of two very sapid matters—tanin, scrofula, for scrofa in Greek is hog, and which has a rough, astringent taste; and the derivative scrofulous means hoggish. The disease scrofula, was so called when The infusion, filtered, gives, with a so-medical science was in its infancy, from lution of subacetate of lead, an abundant its supposed resemblance to some diseases yellowish-brown precipitate, which con- of the hog, and then the inference was tains, in combination with the oxide of lead, easy, that eating the hog (scrofa) produced all of the coloring matter, all the tanin, the hog disease (scrofula). It is well known, however, that our American In-The infusion of green tea contains less dians and the Hindoos, who never use coloring matter than black, but furnishing pork, are liable to this disease; that in a more abundant precipitate, when treated Europe it prevails chiefly among the ill-fed with the subacetate of lead solution, than poor, who hardly taste meat of any kind.

On the other hand the Chinaman and flesh, are remarkably healthy and exempt from scrofula—a disease we have much more reason to suspect as originating long ago from the hereditary taint of an unmentionable disease favored by irregular living and poor diet.

In the South, from their sleek appearance and exemption from scrofula, you can at once distinguish the bacon-fed negro.

These examples may suffice on that head. Fat pork is not in any sense carbonic acid, but hydro-carbon, a combination of hydrogen and carbon. It becomes carbonic acid and water by combining with oxygen in the act of being burned or digested, which is much the same thing—giving off during those processes large amounts of heat and light.

make blood or red flesh, though the lean which is always eaten alone does. It is as your article says truly, material for breath. Well, that is a good deal. It is supposed that if the writer's breath had stopped five minutes before he took his pen, we should

never seen his article on fat pork.

But it does more. All the fat that goes into the stomach and thence into the blood does not undergo slow burning in the lungs by the process of burning, but is deposited in the body as human fat. Now a certain amount of fat is so necessary for the proper play of all the parts, muscles included, that without it, the body, like an ungreased engine, wears itself out by its own friction. In consumption, the waste of fat is one alarming and most dangerous symptom, and the far-famed cod-liver oil acts perhaps chiefly by supplying the blood

I am satisfied by experience that fat pork—when the stomach will receive it does just as well. Moreover, few of those delicate persons that have so great an aversion to pork or other fat, ever live to see 40 years. They die young of consumption. Butter, sugar, starch, vegetable oils act, to some extent as animal fat, and in tropical climates are used as substitutes.

But go to the arctic regions and see the refined Dr. Kane and his men devour raw walrus blubber with a gusto, as we would take a dish of ice cream, and you will conclude that "fat pork," particularly in our water. arctic winters, is not so bad an institution. John G. F. Holston, A.M., M.D.

We could not live on fat pork aloneour own pioneers, who hardly eat any other nor on sugar and starch—though we could on bread. Bread, the staff of life, contains the materials both for breathing and making blood and red flesh (muscle) in a supereminent degree, greater even than lean beef or any other single article of food, and this, or some substitute, such as beans, peas, potatoes, etc. is always eaten with fat pork, so that there is a sufficient supply of blood and flesh-making material. However, excess is bad, and the fat pork must not constitute the bulk of a meal.

Chemical analysis is a poor substitute for the observation of facts in the living body, nor can we even base very much on experiments made on Mr. Martin, the man with the hole in his stomach, by which food can be introduced and digestion observed, for that is not nature's way of get-It is true the fat of fat pork does not ting it there, and a stomach with such an unnatural opening is much like a leaky dinner pot with a hole in the bottom stuffed with a rag. Extended experience alone

can settle such a question.

The Greeks and Romans esteem pork as a luxury, and a most wholesome diet; their athletic and gladiators (prize-fighters) were fed on pork, our own Saxon (Teutonic Scandinavian) ancestors esteemed it so highly that they, even in their heaven, provided a great hog with golden bristles, called Gulliborstli, of whose bacon the heroes of Walhalla dined every day, when at night the picked bones again united and became covered with a fresh supply of fat pork. In this estimate of the hog, the mass of mankind, not of the Shemite race, (Jews, Turks, Arabs, etc.,) who follow Moses' law, that had spiritual and representative meaning, have, in all ages, agreed, and will agree, as long as man has canine teeth, and lives by drawing his breath. Whenever the Scientific American or Prof. Liebig will discover a new process of living, without breathing, we may be guided by their opinion; till then, I opine, "good corn-fed (and no other is good) pork" will rule the roast, of which themselves they will not be slow to partake.

My remarks are, of course, only applicable to men, women and children, with comparatively healthy stomachs, who have sufficient exercise, with pure air and pure Yours, with respect,

From the American Veterinary Journal.

#### Hog Cholera.

GEORGETOWN, OHIO, Sept. 1858.

Mr. Editor: - Much has been said in relation to the disease known as "hog cholera," and many items published in regard to its cause, and the proper plan of cure, and having paid some attention to it for the last two seasons, with a hope of being some benefit to the many raisers and consumers of one of the products of our common country; believing I may be of some benefit to others, I send you a short article upon the subject.

I shall not enter into a lengthy detail for two reasons. In the first place, I have not the necessary time to spare; and secondly, for the kind of paper I design writing-being mostly for the use of stockraisers—it is unnecessary.

"Hog cholera" is a misnomer. The disease is not cholera, nor does it assimilate to that disease.

When I first applied to for some remedy for hogs affected with the disease, it was by a personal friend, whose stock was suffering from its attacks, and I had to rely upon the symptoms given by him, and after the action of the remedy, from the large number of worms voided by the animals, I believed those parasites to be the cause; but having afterwards noticed animals affected by the disease, I thought the diagnosis incorrect, and then obtained results from the most minute examinations of many that were suffering from the disease, as well as those that had died from it, that changed my opinion.

with a milliary eruption, which, in some three days. instances, had undergone the suppurative to produce, if not producing, the Diarrhea country, but I do not suppose it or any is, however, not always present. Some-times constipation is an accompaniment, ed; yet others who have fed this mediand in such cases the disease usually ter- cine to their stock believe it will do it.

minates fatally, much sooner than when the animal is affected with diarrhea.

High febrile action is usually present, and very frequently the skin of the affected animal becomes dark colored, showing a purplish, or lead-colored hue upon the back, legs, ears, or snout, or in all those parts, caused, no doubt, by the ar enialization of the blood.

Some hogs have recovered after the circulation had become so languid that their

ears dropped from their heads.

I have no doubt but some of the cases attacked, would be benefitted by a dissimilar course of treatment from that pursued in other cases; for, as mentioned above, all are not attacked precisely the same way, or, at least, the symptoms first noticed are not exactly the same. A few die immediately after they are attacked, or at most, very soon after they appear sufficiently unwell to attract attentionprobably from intense or very great congestion of the lungs, that being the only appearance of diseased action noticeable after death. Very fat hogs are more apt to die thus than ordinary stock hogs.

A most thorough trial has been made, under my direction for two seasons, of the following remedial agents, and although the medicine has been used for several hundred animals, but five or six of the number have died, as far as I have been

able to learn.

In some instances very many of a lot had died, and the rest nearly, or all sick, when the medicine was administered, and no more died. In another instance, when a part were sick and others well, the sick ones recovered, and the well ones did not The disease is a low, or typhoid inflam- take the disease. In other instances, some mation of the lungs. Many of the ani- of a lot took the disease after the remedy mals die without suppuration occurring; had been given, but whether those that and in those cases, the lungs are found in were afterward attacked, had partaken of a hepatized condition. Others pass from the remedy, is a little doubtful, as the the hepatized to the suppurative stage, whole stock fed together, and among those and show abcesses, large or small, in persons who have fed the remedy to their some instances, almost an entire loss of stock, are those who most confidently beone or both lungs, while the intestinal lieve an animal will not take the disease canal of the small intestines, is studded if he has taken the medicine for two or

It has unquestionably been the means of process; in either stage, no doubt, helping saving very many hogs in this section of redients unite; may not be more benefias apparently answered an excellent purose. I herewith annex the formula I have sed, hoping it may be as beneficial to the nany, as it has been to the few:—

RECIPE.—Ferri Sulph. lb. j. (Copperas, pound.)

Potassæ Nitrates, lb. j. (Saltpetre, 1 ound.)

Zingiber Pulv. lb. ss. (Ginger ½ pound.)

Grind, or otherwise finely pulverize the on and potash, then add the ginger. live to each animal a teaspoonful every ay when bad, or once in two or three ays, if used as a preventative.

I think it is rather better to give the nedicine in dry meal or bran, than to give in slop, although many have thus fed it. t will be of little or no service to small igs, and probably of little benefit to reeding sows, enciente, and possibly an

njury.

While speaking of the benefits derived com Sulph. Ferri and Nit. Potassæ to ogs, it may be of service to some of our readers to know that equal parts of hose two substances, given in tablepoonful doses, once per day, or once very second day, to cattle afflicted with he disease known as "hollow horn," are f very great service in restoring them to ealth.

The disease is readily detected by openng the animal's mouth and examining the ondition of the teeth. If the front teeth re found to be loose, so as to be readily noved back and forward—the outer end f the teeth only-there need be no disute about the disease being that generally nown as "hollow horn," and the above emedy will ordinarily restore the ani-nal's appetite in three, four, or five days, nd put it in a good condition for rapidly mproving. Yours respectfully, THOS. W. GORDON, M. D.

nen are usually called physicians, al-shows, than perhaps any other in the

emarked, it renders the necessary quan-Ithough, in many instances, they have not The remedy I ordered is not precisely studied long enough to scarcely yet know er se chemically; but I am not certain the names of the bones composing the hat the decomposition occurring (in the human skeleton. It is far beneath their nimal's stomach,) when the different in-dignity to prescribe for any animal whose capacity for knowledge is not fully equal ial, or of some service; at all events, it to their own; and I am inclined to the belief that the hogs, horses, and cattle, are really gainers by the self-incumbent dignity of such gentlemen, though bipeds may suffer. They laugh at a prescription for a hog; but my motive in life has been, and is, to do all I can to ameliorate the condition of my fellow men, and when I can save their property, never to neglect what to me is a duty. Yours,

GORDON.

# Mr. Everett's Remarks on the Horse at the late Springfield Fair.

Mr. President, Ladies and Gentlemen:-I believe one of the exploits of the distinguished person to whom my friend Ashmun has alluded, is to make the animals that are submitted to him lie down and go to sleep. [Applause and laughter.] hope, sir, that my speaking, whatever other effect it might have, will not produce that.

Sir, it is perplexing, it is almost painful to consider what high degrees of intellectual and moral power are evinced by animals whom we profanely call brute beasts. I suppose it was a reflection on these noble qualities of the horse, intellectual and moral, that led the wittiest, the bitterest, and, I am sorry to say, the filthiest of the satirists of our language—I mean Dean Swift-in that remarkable romance of his, the most fascinating as the most revolting of books, to represent the horse, under that unpronounceable name which he gives him, as the wiser, the more sagacious, the nobler animal, and to describe the human race, under the disgusting character of Yahoo, as an inferior order of beings. I don't know, sir, but you will rather think it beneath the dignity of the occasion to allude to such a book as Gulliver's Travels, and yet it does contain, among many most instructive remarks, P. S.—We have men among us who one of those passages into which the wishink paying any attention to the lower dom of ages is condensed in a single sennimals, decidedly out of taste, and per-tence, and which is more often quoted, at aps out of caste, for a physician. Those least part of it, at all agricultural and rural whole compass of literature. "The man," reason, he deserves the greatest credit the spot where only one grew before, would deserve better of mankind and country than the whole race of politicians put together." [Laughter and applause.] When this is quoted at agricultural meetlast part of the sentence is generally omit-

ted. [Renewed laughter.],

The noble qualities of the horse seem, indeed, to have made an impression upon the most brutalized of our own species. I suppose it is this, if it were worth while to account for the freaks of a madman, which led the Emperor Caligula to erect a marble stable for his horse, Incitatus, to provide him with an ivory manger, with housings of imperial purple. a breast-plate studded with diamonds and pearls, and then to elevate him to the dignity of the Consulship. This seems, to be sure, a mere freak of madness, and yet I am inclined to think that at that time it was a better choice than could have been made out of the venal courtiers and factious prætorians of the imperial court; and I believe, sir, had it been put to the vote throughout the Roman Empire, then co-extensive with the civilized world, they would have decided that they had a better consul in the horse than in the Emperor. [Laughter and applause. Sir, they had been too familiar with the rapacity of the tyrants who chased each other over the stage, dagger in hand, not to be pleased with the elevation of a ruler who took nothing but oats out of the public crib [laughter] - a ruler, sir, who, while the reins were with him, would at least have given them a "stable" administration. [Renewed laughter.]

I trust, sir, that the beautiful performance of Mr. Rarey, to which my friend Ashmun has alluded, may be the means

says Gulliver, "who can make two years for what he has done in this respect, of corn or two blades of grass to grow on although I believe he is not the first who has succeeded by this same treatment in subduing the wildness, changing even the render a more essential service to the native instincts of what are commonly called the almost untamable animals. I often saw in the streets of London-and I When this is quoted at agricultural meet-believe the same thing may be seen at ings by patriotic candidates for office, this Barnum's Museum in New York—what was called "The Happy Family" a collection of animals, in a large wire cage, most hostile in their nature-cats and rats, hawks and mice, owls and wrens, living together in these close quarters, in the utmost amity and friendship. I asked the showman what was the secret of the operation by which he brought about those astonishing results. He told me it was persevering kindness. He did not say, sir, in what particular way that kindness was to be manifested. I believe part of it consisted in always keeping them supplied with plenty of the food they were fond of; but it was persevering kindness. My experience led me to think that the amicable relations thus established among the animals did not extend to outsiders; for I rather inadvertently put my finger through the bars of the cage, when a large rat sprang at it with such rapidity that I drew it back a great deal quicker than I put it in. [Laughter and applause.] I assure you that my bosom was overflowing with kindness toward every member of that "Happy Family," not excepting the rat; but after that demonstration on the part of the rat, I did not think it expedient to persevere. [Laughter.]

However this may be, sir, if there is any one who doubts that the horse—the animal that most concerns us on this occasion—is susceptible of the kindest feelings of our nature, I think he would be convinced of his error by a most interesting anecdote of Edmund Burke. In the decline of Mr. Burke's life when he was of diffusing some useful ideas in this re-living in retirement on his farm at Baconsspect throughout the community. Whether field, the rumor went up to London that there is yet some unexplained means of he had gone mad; and the fact that was influence in the possession of this gentle- stated in support of this rumor was that man not shared by the rest of the com- he went round his park kissing his cows munity, I know not: but one thing, I and horses. A friend, a man of rank and think, sir, is certain, that one great portion influence, hearing the story, and deeming consists in gaining and keeping the affec- it of too much importance to be left untions of the animal by gentle and kind corrected, hastened to Baconsfield, and treatment. For this, if for no other sought an interview with the view of asnent was verging back to its native dust, he lamp of genius and reason shone with ndiminished lustre. He was accordingy more than satisfied as to the object of is coming down, and in a private interiew with Mrs. Burke told her what he ad come for, and received from her this athetic explanation. Mr. Burke's only hild, a beloved son, had not long before ied, leaving behind him a favorite horse, he companion of his excursions of buiness and pleasure, when both were oung and vigorous. This favorite aninal was of course turned out by Mr. Burke, the father, into the park, with diections to all his servants that he should a every respect be treated as a privileged avorite. Mr. Burke himself, of course, n his morning walks, would often stop to aress the favorite animal. On one occaion, as he was taking his morning walk hrough the park, he perceived the poor ld animal at a distance, and noticed that e was recognized by him. The horse rew nearer and nearer to Mr. Burke, topped, eyed him with the most pleasing ook of recognition, which said, as plainly s words could have said: "I have lost nim, too;" and then the poor dumb beast leliberately laid his head upon Mr. Burke's bosom! Struck by the singucalled upon to designate the event or the terbalance of alcohol, spoils all.

ertaining the truth of the rumor. Enter-[period in Burke's life that would best susng into conversation with him, Mr. Burke tain the charge of insanity, it would not ead to him some chapters from his "Let-be when, in a gush of the holiest and ers on Regicide." His friend immedi-purest feeling that ever stirred the human tely saw that though the earthly tene- heart, he wept aloud on the neck of a dead son's favorite horse.

#### The Preservation of Wine.

Wine is sometimes sulphurized as a preservative, and often so excessively as quite to taint it. The sulphur is burnt in the casks and bottles, and then the wine is poured in. If, by chance, the sulphur is arsenical, then a slight dose of arsenic is administered to the public, far too innocent to understand whence comes the side-wind which blows them illness and disease. Cloves, cinnamon, lavender, thyme, and other aromatic substances, are used to weaken the influence of the sulphur, and the combination gives a peculiar taste and odour.

They are burnt in the casks together with the strips of linen dipped in sulphur, and the whole horrible medley of taste and smell passes for "bouquet" by the multitude, who believe what their wine merchants tell them, and praise according to price. In France, one-thousandth part of pulverized mustard seed is put in to prevent any after fermentation; but the greatest secret seems to be, to preserve the wine from any contact with the

Some Malaga wine, which had been arity of the occurrence; struck by the buried during the great fire of London ecollection of his son, whom he had that is to say, in sixteen hundred and sixnever ceased to mourn with a grief that ty-six—was dug up twenty years ago, and would not be comforted; overwhelmed by though nearly two hundred years old, he tenderness of the animal, expressed was found perfectly good, well-flavoured, n the mute eloquence of holy Nature's and full-bodied. Exclusion of air alone iniversal language, the illustrious states- would not have preserved it; sweet and nan for a moment lost his self-possession, alcoholic, it bore in itself the elements of and clasping his arms around the neck of longevity; had it not been poor in sugar his son's favorite animal, lifted up that voice which had caused the arches of Westminster Hall to echo the noblest strains that ever sounded within them, and wept aloud! Sir, this was seen, this leather and skins. By this diminution of was heard by the passers by, and the water, the alcohol remaining is concentra-enemies of Burke, unappeased by his advancing years, by his failing health, by strong wines can be so treated. With his domestic sorrows, made it the ground weak and acid wines, the very concentraof a charge of insanity. Burke is gone; tion increases the formation of tartaric but, sir, so help me Heaven! if I were acid, and that, without the proper counevaporation does not go on in glass bottles, bidium sinense. Olea fragans, Oranges and Saint Vincent therefore recommended that all bottles should be secured by might not be carried on in them. His advice has not been followed.

Hunt's Merchants' Magazine.

#### An Item in Neat Farming.

There is a slovenly practice among farmers, and some pretty good ones, of putting logs, brush, stumps, &c., &c., into the times they are put into the fence corners. Now I protest against anything of the kind. They are an abomination to a real neat farmer. If you cannot find time to burn them as they should be, then you had better make them into piles or heaps in the field, and plow round them; for around them so often, and will set them on fire. Better dig pits, like the Florida man, and bury them.

Some men suffer bushes, briers and weeds to grow along the branches and thus form a crooked, horrible looking hedge, a fit harbour for snakes, frogs, minks, and other varmints. Clean out those places when you are tending your crops or after harvest.

Instead of letting the bushes grow up along the branches, a good plan is to have a strip of meadow on each side. Along the margin of a branch the grass grows most luxuriantly. A strip of meadow will catch the rich soil that washes from the adjacent fields and prevent it from being lost to the rightful owner. This is much better than to try to raise corn in the bends or crooks of the branches, where it is so difficult to plow, and infinitely better than to have those ugly, crooked hedges. Brother farmer, I move that we repudiate such hedges. Who'll second the motion?—Valley Farmer.

#### A Chinese Garden.

Mr. Fortune gives a curious description of a Chinese Garden in a recent letter, from which we make the following ex-

"The plants consist of good specimens of Southern Chinese things, all well known In this side of the garden there is some in England, such, for example, as Cym. artificial rockwork, which the Chinese

Camellias, Magnolias, etc., and, of course multitudes of dwarf trees, without which bladders, not corks, so that evaporation no Chinese garden would be considered complete. In the above alluded to there are some nice stone seats, which lool cool in a climate like that of Southern China. The floor of this building is rais ed a few feet above the ground level, so that the visitor gets a good view of the water and other objects of interest in the garden. That this is a favourite lounge and smoking place with the Chinese, the nearest branch or gully in the field. Some- following Chinese notice, which we found on one of the pillars, will testify:- '. careful and earnest notice: This garder earnestly requests that visitors will spi betel outside the railing, and knock the ashes of pipes also outside.' Several fine fruit-trees and others are growing near the walks, and afford shade from the rays o after awhile you will get tired of going the sun. On one of these we read the following: 'Ramblers here will be excused plucking the fruit on this tree.' How ex ceedingly polite!

"Near the centre of the garden stands a substantial summer-house, or hall, named the 'Hall of Fragrant Plants.' The same notice to smokers and chewers o betel-nut is also put up here, and there is another and a longer one which I mus not forget to quote. It is this: 'In this garden the plants are intended to delight the eyes of all visitors; a great deal has been expended in planting and in keeping in order, and the garden is now beginning to yield some return. Those who come here to saunter about are earnestly prayed not to pluck the fruit or flowers, in order that the beauty of the place may be preserved.' And then follows a piece of true Chinese politeness: "We beg persons who understand this notice to excuse it!' Passing through the Hall of Fragrant Plants, we approached, between two rows of Olea fragrans, a fine ornamental suite of rooms tastefully furnished and decorated, in which visitors are received and entertained. An inscription informs us that this is called the 'Fragrant Hall of the Wooche tree.' Leaving this place by a narrow door, we observe the following notice: 'Saunterers here will be excused entering.' This apparently leads to the private apartments of the family. know well how to construct, and various summer-houses tastefully decorated, one of which is called the 'Library of Verdant Purity.' Between this part of the garden and the straight walk already noticed there is a small pond or lake for fish and water lilies. This is crossed by a zigzag wooden bridge of many arches, which looked rather dilapidated.''

#### Maine Farmer.

#### The Anthracite Coal Trade.

Thirty-one years ago the first coal went to Philadelphia, being ten wagon loads hauled over the mountains by George Shoemaker of Pottsville. Very few persons could be induced to purchase it, and nost of these were wholly unsuccessful n their attempt to make it burn. Everypody considered it a mere stone. Mr. Shoemaker was denounced in all quarters as a cheat, and measures were being taken o arrest him for swindling; but he escaped arrest by leaving the city by a circuitous road, and did not stop until he had got thirty miles on his homeward journey. The most remarkable feature in this exraordinary speculation was, that Mr. Shoemaker did not himself know how to make the coal burn. He was therefore unable to convince the public that it really would ignite. Had he experimented at nome, and brought with him a grate stove in which to kindle a successful fire, the exhibition would have, no doubt, hastened full ten years the development of the coal ousiness. He reached home disgusted at the belligerent temper of the citizens, and heart-sick at the ill success of his adventure. His reputation as an honest man was rescued, however, by an iron master n Delaware county, into whose hands some of the repudiated mineral accidentally fell. He tried coal, caused it to burn freely with an intense heat, and was so pleased with it that he proclaimed the fact in the newspapers. This led others to try, and they also succeeded; the prejudice was removed, and consumption went last year reached the enormous quantity 000 tons.—Miner's Journal.

The Best Wealth.

The great struggle with civilized men in this world is for wealth. This is called the prime good, the one thing needful, the great desideratum of life. So men toil for it; sacrifice ease, comfort, health for it; give time, strength, and too often good character for it. The truth is, the estimate put upon wealth is too high. Its value, its good is over-rated. It is not the great good. It is not the pearl of great price. It is not the best thing man can have. It does not confer peace of mind, nor purity of heart, heartfelt happiness, nor contentment, nor home-joy, nor social blessedness, nor any of the solid and enduring enjoyments.

Wealthy homes are not often happier than those of the poor and comfortable livers. Poverty is always an evil; but a fair supply of the necessaries and comforts of life is quite as apt to confer real peace, as great wealth. It is not gold nor goods, therefore, that make men really wealthy. The best wealth is of the heart, an enlightened mind, a loyal conscience, pure affections. He is wealthiest who has the largest stock of wisdom, virtue and love—whose heart beats with warm sympathies for his fellow men, who finds good in all seasons, all providences, and all men. The generous man who pities the unfortunate; the pure man who resists temptation; the wise man who orders well his life; the loving man who clings closely to his family and friends; the studious man who seeks instruction in all things, are the truly wealthy men.

#### Valley Farmer.

# To make Pure Apple Wine.

Take pure cider made from sound ripe apples, as it runs from the press; put sixty pounds of common brown sugar into fifteen gallons of the cider, and let it dissolve; then put the mixture into a clean barrel, and fill the barrel up to within two gallons of being full of clean cider, put the cask in a cool place, leaving the bung out for forty-eight hours; then put in the depression of manufacturing has caused a reduction of \$300,000 tons to be sent to market, and the whole year undoubtedly shows a falling off of full 600,-000 tons.—Miner's Journal.

For the Planter.

Humbuggery the Order of the Day. MR. EDITOR:

In glancing over the contents of your November number my attention was arrested by a notice of "a miraculous corn;" that being a favorite plant of mine, with which I have been experimenting for upwards of forty years, with as many varieties as years. I turned to the page containing its description, when lo, and behold! I met with an old acquaintance, (from whom I am seeking a divorce,) the "Wyandotte prolific corn." Some three years since I was presented by a gentleman with an ear of that variety, the most beautiful I had ever seen, and in my judgment promised to rival wheat in the manufacture of flour, with a product promised equal to the one certified in the above number. I then considered a desideratum obtained, in quest of which I had made so many experiments, and my labors ended in them. A favorable spot in my garden was selected for the reception of the grain, and that prepared in the best manner my judgment sanctioned. The corn came up, grew apace, and threw out the sprouts as advertized. I awaited auxiously the presentation of ears promised without the fulfilment of my expectation; at gathering time I received something like a peck very badly matured, with a promise on the stalk of a better yield, should the maturing season continue several months longer; but the season did not delay, hence I was minus the yield. The corn continued to be puffed in the agricultural and political papers, and being loth to abandon it on the above experiment, and finding the "pure seed" advertised in Baltimore by its agent, I procured a quart of it, which cost at the rate of \$240 per barrel, planted it as in the first instance, with a corresponding result. During the present year I have planted the Peabody gather rather more than the seed planted, of the most unpromising appearance. This is not the extent of my being victimized brought into action .- Scientific American. to humbuggery. A few years since I was presented with the Oregon pea, a beautiful one in appearance, with a promise of of which I was wofully disappointed. The greener pastures, that the flocks may folpea was advertized at \$80 per bushel, low.—Maine Farmer.

and I advised my farming brethren not to make a large outlay in that article, at 40 cents per bushel, for which I received a castigation from a correspondent of the "American Farmer," upon the ground that his experiment had been more successful than mine, and that he had not seen the pea as early as I had made the experiment. Supposing from his premises that it was necessary for him to inspect the article and pronounce it pure or spurious, I yielded him the field, since which time I have heard no more of the Oregon pea or its advocate, as a bearer or fertilizer. Next in course came the Japan pea, beautiful in appearance, and highly recommended as a fertilizer, but its yield was no better than the Oregon. In its train followed the Chinese prolific, with a worse return than those above named. In view of the above, I am inclined to think I have contributed to humbuggery my full portion, and shall surrender the ground to such as may be as credulous as I have RICHARD ROUZEE. been.

Oakland, Essex County, Va. ? November 2nd, 1858.

#### A Hard and Durable Soap.

A patent has been granted in England for an improvement in the manufacture of soap, by the addition of sulphate of lime to the usual ingredients employed in its manufacture. The sulphate may be added with any of the usual ingredients employed in the manufacture of soap. The proportions of the sulphate which it is best to employ, vary according to the article manipulated upon, and the quality of the soap to be produced. Thus about twelve ounces of dry sulphate is sufficient for one ton of best soap, whereas, in common or highly liquored soap, six or eight pounds may be used with advantage. Soap, made with the addition of sulphate of lime becomes hardened, keeps dry, and is not liacorn, and from present appearances I shall ble to shrink while in water, its durability is increased, and it does not wear or waste away before its cleansing properties are

# The Early Dead.

Some one has said of those who die an unprecedented yield, on rich or poor young, that they are like the lambs which land, and an unparalleled fertilizer, in all Alpine shepherds bear in their arms to

For the Planter.

### On the Stimulating Properties of Guano-A Reply to "X."

MR. EDITOR:

It has not been B.'s purpose to even seem to disregard so formidable an antagonist as "X." of the Republican, nor to allow him to take to himself "the flattering unction" of having driven his antagonist from the field. Various circumstances have conspired to preclude an earlier reply.

At the outset "X." will be pleased to call on B. to assure-him, that he has written nought with ill will-that he has had no design to "pitch into him." No, he would not hurt a hair of his head. B.'s aim has been higher than this; it has been, so far as his feeble powers might enable him, to expose what he regarded as error, both practically and scientifically, and thereby contribute a mite to the advancement of practical and scientific agriculture. If "X." has in any way suffered, it has fallen out to him by having placed himself in a vulnerable position. The taunting charge of "great cry and no wool," and "empty phrase," B. does not suffer to disturb his equanimity-aware that such things not only contain no argument, but indicate the want of it. Ridicule is the weapon ordinarily appealed to when facts and arguments have been exhausted and failed to secure victory.

If the readers of the S. Planter are such gumps as "X." makes them to be, it might well be regarded as time and labour thrown away to write or print anything for them. Says "X.": "If Mr. B. can prove his assertions to the satisfaction of the numerous readers of the S. Planter, they will necessarily infer that I ('X.') am right, and always will be right, and that Mr. B. had no substantial ground for an attack on me. But if he (B.) cannot prove his assertions, then our readers must infer that I am right and Mr. B. is wrong again." Now, it is certainly exceedingly disingenuous in "X." to require of B. proof of any assertion, knowing, as he here declares, that the cards are so stocked against him, that the result will be the same whether his assertions are proven or not. To have the "rara avis in terra" of a man, that "always will be right," B. is willing to attempt the proof of any assertion he has made. But, apart from this consideration, there is but one that he cares much to prove, and that is, that Guano does not merely stimulate and impoverish the soil, furnishes no pabulum for the plant, but does furnish nutriment to the plant Editor Southern Planter: and fertility to the soil. "X." ought to know Dear Sir—I have this day for that this is the paramount question at issue bein consists the very gist of the question in and some are imperfect, the latter part of

dispute. If Guano stimulates and impoverishes the soil, and Rhode's Superphosphate furnishes nutritious materials and enriches, then "X." is right, and B. wrong. But, on the other hand, if Guano applied to the soil will greatly improved in fertility, then B. is right, and "X." wrong. "X." takes no notice of this, but mounts his favourite hobby and cries, "I still contend that Guano stimulates the soil." This calls to mind an anecdote heard in years gone by, of two bull dogs and a monkey, kept by a gentleman for his amusement. The dogs were one day observed in hot pursuit of the monkey, who escaped capture by running up a pole standing near by. Pug, though out of present danger, yet, seemingly, desiring more comfortable quarters, began to clap his hands, (fore feet,) and thereby got the dogs into a fight; and while the dogs were fighting, he made good a safe retreat. "X." well knows it matters but little whether "Guano stimulates the soil or the plant," if, indeed, it impoverishes the soil, and Rhode's Superphosphate furnishes solid food for the plant, and substantial fertility to the soil.

Says "X.": "That Guano stimulates the soil, I could have said to the farming community of the whole globe. Why, then, should I not thus address the leading journal in the 'Great West?' Will Mr. B. face to the music and answer?" B. faces to the music and answers. B. faces to the music and answers, that a spade should be called a spade because it is a spade and not a broad-axe; so "X." should have written, "stimulate the plant, (if indeed he must have 'stimulate,') and not stimulate the soil, because the soil is not and cannot be stimulated." If, indeed, "X." could have said to the farming community of the whole globe that "Guano stimulates the soil," this gives no right to thus address leading journals in the "Great West," any more than having humbugged ten men gives the right to

humbug the eleventh.

B. bids a kindly adieu to "X.," wishing him a pleasant airing upon his gallant hobby. And in conclusion, takes leave to say, that he would not willingly prejudice any one against Rhode's Superphosphate. Let it command all its due, but let it not, nor any of its kindred, usurp the throne and reign king over Peruvian Guano. J. D. S.

For the Planter.

Staunton Nurseries.

Staunton, Va., Oct. 16th, 1858.

Dear Sir-I have this day forwarded to your office a box containing 34 varieties of apple and 1 of pear. They are not tween him and B. If he has forgotten let him refer to the June No. of the Planter, page 379; he will there find written: "Here-generally over medium sized specimens,

the season having been so dry as to effect the crop very materially; in ordinary seasons all these varieties do well with us. You will see by the specimens sent that some of the Northern sorts are much larger and better here than when grown at the North—a fact that goes to prove the adaptedness of our soil and climate to the growth and perfection of that fruit.

I would speak more particularly of some varieties, but time forbids at present.

Hoping the box will reach you safely, I remain, Yours, Respectfully, FRANKLIN DAVIS.

We return our thanks to Mr. Davis for the box of delicious apples, which reached us safely. Among the specimens, we admired greatly the Bellflower, Gloria Mundi, Colbreath's Russett Rambo, Tallawater, Pennsylvania Pippin, Spitzenberg, &c.

They were all much to our taste.

[ED. So. PL.

#### A CARD.

ROYAL OAK, TALBOT Co., MD., October 21, 1858.

To the Editor of the "Southern Planter," Richmond, Va.

Sir—I am directed to request the publication, in the Southern Planter, of the following proceedings of our Society, viz:

At a meeting of the Board of Trustees of the Maryland Agricultural Society for the Eastern Shore, held at "Wye Cottage," the 30th September, the following resolutions were adopted:

Resolved, As the opinion of this Board, that the operation of the Grain Inspection Law of the State is beneficial to the interest of the Farmer, and we therefore advise the said law to be sustained.

Resolved further, As the judgment of the Board that, if the said law be generally sustained by those who sell grain in the Baltimore market, our next State Legislature will be justified in greatly reducing the present costs of grain inspection.

(Signed) M. T. Goldsborough, President.

EDM'D L. F. HARDCASTLE, Sec'y.

I am, very respectfully, yours, EDM'D L. F. HARDCASTLE, Secretary. Wool and Woolens.

The supply of wool promises to be inadequate to the wants of the manufacturers. The demand for the clip this year was quite animated, and prices soon rose, so as to check purchases. It was found, however, that the supply of wool was really less than there had been reason to expect, since the high prices of the last few years have not induced any increase in production. The high prices last year had, however, induced imports to some extent from England. This year prices have been less here, but they have risen abroad under the same influences that have improved the prospects of the cotton market, viz: abundance of cheap food. The prices here have been comparatively as fol-

October, 1858. 45.0 (1958. 45.

July, 1858. 1858. 370,046 46 370,032 3

July, 1857. 1857. 1857. 1857. 1857. 1857. 1857. 1857. 1850. 1857. 1850. 1857. 1850.

Saxony fleece, per fl.

Full blood merino,
Jand & merino,
Notive and & merino,
Superfine pulled,
No. 1 pulled,
California, fine, unwashed,
Peruvian, washed,
S. American, common washee,
S. American, common washee,
East India, washed,

The prices of American have nearly recovered, but those of foreign descriptions have not. In England and on the continent, on the other hand, prices are rising rapidly. It follows, as a matter of course, that the imports of foreign wools decline. For the nine months to October 1st, they have been at Boston only 7,171,468 lbs. against 11,270,727 lbs. same time last year, which was a quantity nearly double that of the preceding year. Under the supposition that the quantity of the wool used in the country is, as estimated, 100,000,-

000 lbs., a decline of 4,000,000 in the im-(393 yards. four per cent. of the supply, and the home|number of dwellings is as follows: supply does not increase as the high pri-ces would naturally lead to expect. The low prices which have ruled in the past year will, on the other hand, discourage the receipt of foreign wool, although a sale of nearly 1,000,000 lbs. Chinese wool, held in New York, last week brought very good prices, higher than the quality (which was low) would warrant for the present state of the market for carpets. The stoppage of many of the large factories has greatly reduced the consumption of wool in the past year; probably 30,000,000 lbs. less has been taken by the factories, but certain qualities of wool are yet very scarce. The production of delaines has been large by the three great companies engaged in that description of goods, and their wares were never more attractive. They have produced nearly as follows for the year:

			rarus.
Manchester-	-Delaines,	-	7,000,000
Pacific	66	- 1121	7,200,000
Hamilton	"	-10	6,900,000

Total three companies, 21,100,000

This is equal to 2,000,000 dresses for ladies, certainly not a very large supply, since there were in the country in 1850, 9,526,666 females, which would give one delaine dress among four, and if we deduct females under five years, one dress among three in a year, exclusive of the imported delaines, which hold their ground with much difficulty against the improved production of the three mills named. The rise in wool and the recovery of the markets abroad for these styles of dress goods makes the American markets far less important this year to the English and French producers. The prospect here, therefore, is certainly favorable to the expectation of a rise in the goods equal to the improved value of the raw material. The sale of coarse wools alluded to above went at an advance of some 2a3c. per lb., being in demand for carpets and such descriptions of goods as the fine American wools are hardly adapted to. The quantity of car-

In the city of New York port is a serious matter, being no less than alone, according to the census of 1855, the

Stone, Brick, Frame, Other,	:	4	No. 1,617 29,977 10,395 333	Cost. \$32,267,819 211,531,806 28,900,745 781,920
Total,		7	42,668	\$273,481,811

If we take stone and brick houses only the number is 31,594, which would average an area on one floor only of 20x50 feet, to carpet which would require in this city alone 4,271,300 yards of cloth. The stairs, hall, basement, and upper rooms, are, however, always carpeted, as are most of the frame houses. The quantity really required is not under 12,000,000 yards for the city of New York. In the supposition that the carpets last seven years, the annual demand is 1,750,000 yards, or the quantity of carpets imported last year, to supply the city of New York alone. All the carpet demand for the interior of this-State, and of all the other States and cities; therefore falls upon the home production. The carpets are, however, imported in the following proportion:

	Yards.	Price.
Into Boston,	276,849	\$238,136
Portland,	6,215	4,989
New York,	1,072,307	1,242,338
Philadelphia,	239,172	202,316
Baltimore,	25,607	23,285
Charleston,	14,806	12,755
Mobile,	130	191
New Orleans,	37,690	38,187
San Francisco,	41,296	21,990
	1,714,093	\$1,784,196

The imports at New York averaged a cost of about \$1.20 per yard. At Boston under 90c., and at the other ports about the same low prices, except an importation, which seems to have been a special one, at Mobile, at \$1.50 per yard. The figures here presented show how small is the import trade in carpets as compared with the wants of the country, and reciprocally how large is the interest of carpet makers, who heretofore have suffered under a tax upon peting imported into the country seems to the wools they use, while American agribe very small, as compared with the wants culture supplies them with none of the of the country. Thus in 1857 the whole necessary quality. For the coarse wools quantity of all descriptions—Wilton, Sax- necessary for the making of carpets, the ony, Brussels, Ingrain, &c .- was 1,714, | manufacturers are dependent upon the importers for a supply of the proper material, which has heretofore been charged with an onerous duty.—U. S. Economist.

#### Manuring in the Hill.

A SAUSAGE STORY.—An old friend of ours—one sick and tired of the care and bustle of a city life, has retired into the country, and "gone to farming," as the saying is. His land, albeit well situated and commanding sundry fine prospects, is not so particularly fertile as some we have seen—requiring scientific culture and a liberal system of manuring to induce an abundant yield. So far by way of explanation.

Once upon a time our friend being upon a short visit to New Orleans, was attending an auction sale down town, and as it so happened, they were selling damaged sausages at the time. There were some eight or ten barrels of them, and they were "just going at 50 cents a barrel," when the auctioneer, with all apparent seriousness, remarked that they were worth more than that to manure land with. Here was an idea. "Sixty-two and a half cents—third and last call—gone!" retorted the auctioneer. "Cash takes them at sixty-

two and a half cents per barrel!"

To have them shipped to his country seat was the immediate work of our friend, and as it was then planting time, and the sausages, to use a common phrase, "were getting no better very fast," to have them safe underground and out of the way was his next movement. He was about to plant a field of several acres of corn-the soil of the piny woods species-so here was just the spot for this new experiment in agriculture, this new wrinkle in the science of geoponics. One "link" of sausage being deemed amply sufficient, that amount was placed in each hill, accompanied by the usual number of kernels of corn and an occasional pumpkin seed, and all were nicely covered over in the usual style. Now, after premising that several days have occurred since the corn was planted, the sequel of the story shall be told in a dialogue between our friend and one of his neighbours.

Neighbour.-Well, friend, have you

planted your corn?

Friend.—Yes, several days since.

N. Is it up yet?

F. Up! yes: and gone; the most of

N. How is that?

F. Well, you see, I bought a lot of damaged sausages the other day in New Orleans, a smooth tongue of an auctioneer saying they would make excellent manure if nothing else. I brought the lot over, commenced planting my corn at once, as it was time, planted a sausage in each hill, and—

N. Well, and what?

F. And felt satisfied that I had made a good job of it. Some days afterwards I went out to see how the corn was coming on, and a pretty piece of business I have made of trying agricultural experiments.

 $\mathcal{N}$ . Why, what was the matter?

F. Matter! The first thing I saw before reaching the field was the greatest lot of dogs digging and scratching all over it! There were my dogs, and your dogs, and all the neighbours' dogs, besides about three hundred strange dogs I never set my eyes on before, and every one was hard at it mining after the buried sausages. Somehow or other, the rascally whelps had scented out the business, and they have dug up every hill by this time. If I could set every dog of them on that auctioneer, I'd be satisfied. [Writer unknown.]

# From the Boston Cultivotor. Sociability.

It is not enough for us to be wise, but social and friendly also. We have no faculty lavished upon us without design; even instinct itself is enough to demonstrate this, without the assistance of philosophy. A cold heart, a morose countenance, an indifferent or unbenevolent disposition, though stuffed with all the treasures of erudition, are but'a slur upon human nature and a burthen to existence. ness can only inhabit the cheerful mind; peevishness embitters resolution. It is the sunshine of a benevolent heart which scatters the clouds of uneasiness and electrifies every human principle. Rational mirth and seasonable diversion give life and spring to every enjoyment. Let the austere stoic frown on sociability and every amusement, yet he will at times lose his morose temper and mingle with the social circle. Nature, when circumscribed by austerity, breaks over those bounds

society.

limitation. Vice only minds restraint. No marvels-miracles almost-that fill the generous affection is in the least danger of world of invention from day to day? Who harming any one, its latitude being never supplies the successive races of men that, so large. The farther it extends the more occupying for a brief hour an obscure spot universally benevolence pervades every upon the merchant's exchanges of Boston, grade of society. No one will ever think New York, Philadelphia, Paris and Lonof restraining any humane desire but he don, give to the world of finance and polwho never harbors a sympathetic emotion ities its law? Does professional society in his own breast. It is only the surly reproduce itself? Can inventive spirits child of envy which makes any one doubt call up their own successors? the sincerity of another's friendship. An-mercantile centres of the world ever regels are the exercisers of friendly affec-|produced their own financial giants? Nevtions. Deity, himself, is love! Shall man er! The farm supplies all. It is the sale then who bears his holy image, shrink of the earth, and if this earth's salt lost from the exercise of it, chill every social its savor, wherewith shall the earth be affection and freeze every sympathetic salted?—Maine Farmer. emotion with moroseness? Happiness is the great desire of every being. We were all made and designed for that end; and society being the only way in which civilized beings can hope to enjoy it, let any one who cherishes the inclination, cheerfully contribute his genial spark to kindle and enliven the social flame, which shall light us all to everlasting felicity!

PHILO.

#### Governor Banks on the Farmer.

Gov. Banks delivered the address before the Agricultural Society at Amherst, Mass. After speaking of the great general progress of America, and the part which farmers have taken therein, especially during the past year, when their products amounted in value to sixteen hundred

millions of dollars, he said:-

This is what agricultural industry contributes to the wealth of the country! A yearly contribution; a contribution in dollars and dimes merely, and not embracing an estimate of its physical strength, capacity for endurance, the love of labour and those tails for?" the moral power, with which agricultural industry invests communities wherever it as he replied: prevails. In this view we confine our consideration strictly to those who make do not know what it is to be savin'. You field culture the business of life. Beyond ought to know, my child, that it takes a this, how wide the influence which it exerts bushel of corn to fatten an inch of tail." upon other pursuits? Whence do we de- Maine Farmer.

at times, to enjoy social gratification. I [rive the vigorous intellect of professional do not speak against this most excellent of life that adorns society with its varied acall the human faculties, but encourage it in complishments, and protects individuals in every one with as much ardor as does any the enjoyment of life, health, and their divine, nor confine it to so narrow limits moral and personal rights? Whence comes as to debar it of the proper influence in that vigorous and exhaustless intellect that revels in new channels of thought, and by Virtue neither honors nor needs any new conceptions of power, creates the Have the

Height of Economy.

Old Deacon Briggs is as remarkable for his closeness as Dicken's man Barkis. His name has come to be a proverb in our region for such an economy as ever makes the man the subject of ridicule and contempt. One bitter cold morning, a few falls ago, he bade the boys drive together all the pigs that were to be fattened for market, into the little yard just at the corner of the house. A pig was caught by one of the youngsters—the Deacon with a pair of pincers in one hand, a sharp knife in the other, seized the unfortunate by the tail and cut it off close up. So, through the whole herd, leaving not a pig with even a stump of a tail. Cort, who worked for his grandfather, stood by in amazement—his hands in his pockets, his body wrapped into a crescent by the cold, and his teeth jawing against the outrage with a prodigious chatter. At last he stuttered out:

"Grandpa! what are you cutting off

Sober and solemn was Deacon Briggs,

"You will never be a rich man, for you

#### The Chinese.

Who are the Chinese? What have they done for mankind? Their empire is believed to be the most ancient in the world; and setting aside all mythical and marvellous accounts that go back into dim and unrecorded ages, good authorities name Tohee as their first sovereign, 2247 B. C. Passing over historic annals, as well as geography, ethnology, population, religions and philosophies of the Chinese, all well known to the world, we take leave to say, that many of the arts and manufactures peculiar to refined life, are here carried to a very high degree of perfection, especially in silks, nankeens, and other cottons, and a porcelain that is quite matchless for its peculiarities. The interrogatory as to what the Chinese have accomplished for mankind, may be answered in a manner alike favorable and honorable to that peoplefor there can be little doubt that the mariner's compass, printing, gunpowder and paper-ma-king, and many other useful inventions and manufactures have been known to them, probably for thousands of years, whereas in Europe they were all either adopted or comparatively modern discoveries.

The revenue of China is \$200,000,000 annually, showing her vast resources for wealth—while her foreign exports give a yearly average of about \$40,000,000 in value—soon we hope to be largely increased, as well as the imports. The trade between the U. States and China in

1856 footed up:

Imports into U. S. from China, \$10,454,430 2,558,220

Tens, silks, a few cotton goods, porcelain, fire-works, toys, and minor articles, are shipped from China, while she produces in great abundance silk, rice, cotton gold and precious stones. Surely, then, great results will follow, for a wide field is opened by the breaking down of the Chinese wall, by which we symbolize the abolition of national exclusiveism. And if, under her old sytem, she could construct that wall, and her grand canal, two of the most wonderful of the works of by-gone days, what may not be expected from the ingenuity of the Celestials, when their prejudices shall be dispelled by a free interchange of opinion with the other nations and people of the earth?—
Phila. Enq.

## Hope-Work-Wait.

It is Hope which inspires to exertion and springs to action. Without it but little would be attempted and less accomplished. It buoys us up in adversity, and impels us forward to further achievement if successful. It sustains us when all is dark and gloomy, and when, to all human appearances, all our exertion is labor lost. When care and trouble weigh us down in the present, it comes and whispers of

the future, and overcomes the spirit of despondency.

But without work,—effort—hope is of little worth. Sitting still and hoping will accomplish nothing. Hope excites to effort, and when attended by it accomplishes wonders. Work is lightened and toil is sweetened by the luring results promised by Hope.

Hope and work in union are invincible, and before them, under heaven, all opposition will be overcome. Inspired by one, and in the untiring exercise of the other, we may confidently wait for the sunshine and showers which insure the harvest. Wait patiently and uncomplainingly, because, God has promised blessings to those who but use the means to secure them.—Port Tobacco Times.

#### Falling Apples.

Already the apples, pears and plums are beginning to drop abundantly from the trees. If you examine these you will discover not a single sound specimen among them. They have fallen, not by the winds, but quite likely, prematurely from disease. Cut them open, and you find either eggs or grubs already at work upon the substance of the fruit. Every one of these fruit is a pest-house, to be immediately destroyed. It is good work for the boys to pick them up and throw them into the pig-stye, where they will be devoured or rot among the fermenting manures. are persuaded that the destruction caused by the curculio, and by the grubs that prey upon the apples and pears, is caused mainly by the neglect of this simple precaution. The fallen fruit is suffered to lie upon the ground and mature its progeny of insects. The next year they swarm in increasing numbers, and the farmer complains that there is something peculiar in his soil and climate; he cannot grow good fruit. The difficulty is in the man and not his soil. Pick up the fruit. And this reminds us of an apple orchard we visited last season. The proprietor had been accustomed for years to turn in his store pigs, and to keep them through the season, until the apples were sufficiently mature for making cider. Not an apple escaped the pigs from July to September. The consequence of this policy was, that he had fair, handsome apples to sell, while his neighbors were complaining that their crop was nearly all perforated with worms. Shall the pigs have

#### THE SOUTHERN PLANTER. REPORTS OF JUDGES roughbred Stallion, "Revenue," a Certificate of Continued Superiority in lieu of AND the first premium, that honor having been AWARDS OF PREMIUMS, twice awarded him at previous Exhibitions of the Society AT THE 99. To John L. White, for his thorough-SIXTH ANNUAL EXHIBITION bred Imported Stallion, "Fly-by-Night," OF THE as the second best, a premium of \$20 00 State Agricultural Society, Virginia 100. To T. D. Watson, for his thoroughbred horse "Mohegan," a CERTIFICATE OF MERIT. HELD IN 101. To Wm. C. Scott, for the best Brood PETERSBURG, VA., Mare, (Pauline,) 102. To Paschal Buford, for the second 20 00 ON THE 10 00 best. 2nd, 3rd, 4th, and 5th November, 1858. 103. To J. D. Watson, for the third best, (Mary,) a CERTIFICATE OF 104. To Wm. O. Goode, for "Phantom," CERTIFICATE OF MERIT. BRANCH I. Premiums for Experiments. the best entire Colt foaled since 1st January, 1855, 10 00 The Judges, on the subject of Experiments, 106. To O. P. Hare, for the best entire regret to have to report that only one paper has Colt foaled since 1st January, 1857, 7 50 been handed in-that of Mr. Norvell, of Lunen-107. To R. N. Neblett, for the best Filly burg—on the subject of Continuous Cropping. foaled since 1st January, 1855, 10 00 While Mr. Norvell's report is an interesting 108. To J. Eubank, for the best Filly one, and on an important subject, yet they do not foaled since 1st January, 1856, 10 00 deem his experiment conclusive, not having been 109. To J. Eubank, for the best Filly carried through a sufficient number of years to 7 50 foaled since 1st January, 1857, entitle it to a premium under the regulations of the Society. CLASS 2nd. BRANCH II. Horse of General Utility. 111. To Philip St. George Cocke, for the Premiums for Written Communications. best Stallion for useful and elegant pur-Several Essays have been submitted to the poses combined, "Cleveland," 40 00 Committee on this Branch, upon which—for want 112. To Leonard Mongan, for the second of sufficient time for the due consideration of best, "Orphan Boy," 20 00 them-no report has been rendered. They with-113. To John C. Griffin, for the third hold to a future time the rendering of a report, best, "Young Madison," a CERTIFICATE OF MERIT. 114. To W. C. Archer, for the best Brood when their awards will be made known. Mare, "Molley," 115. To J. W. Dyer, for the second best, BRANCH III. "Sally," 116. To G. S. Ayre, for the third best, 10 00 CLASS 1st. Best Crops of Different Farms. "Fannie," CERTIFICATE OF MERIT. 86. To Wm. D. West, of Elizabeth City, 117. To G. W. Mowry, for the best enfor the best product of Sweet Potatoes on tire Colt foaled since 1st January, 1855, five acres of land in a body, being an ag-"Jim Wiley," 10 00 gregate yield of 19871 bushels, produc-118. To R. A. Willis, for the best entire \$30 00 ing \$1,412 86, a premium of Colt foaled since 1st January, 1856, 88. To Leonard Chamberlain, of Hen-10 00 "Young America," rico, for the best product of Irish Potatoes 119. To Baker Mann, for the best entire on two acres of land, in a body, yielding Colt foaled since 1st January, 1857, "Ti-20 00 236 bushels per acre, a premium of conderoga," 120. To John P. Branch, for the best 7 50 Several Bales of Cotton, very neatly put up, were exhibited by Messrs. Needham Filly foaled since 1st January, 1855, "Alice Price, John R. Dunn, and Wells Draughan, Wood," 10 00 121. To J. Eubank, for the best Filly foaled since 1st January, 1856, "Ellen Carter," 122. To W. C. Archer, for the best Filly CLASS 2nd. 10 00 92. To Tilghman Foster, for the best foaled since 1st January, 1857, "Lady of Sample of English Shipping Leaf 20 00 the Lake," 7 50 93. To A. S. Clarke, for the second best, 10 00 124. To Isaac Stone, for the best pair

matched Horses, "Clipper and Jim."

Eagle,"

125. To John P. Branch, for the second

126. W. P. Cullen, for the best single

Harness Horse, Mare or Gelding, "Gray

25 00

10 00

15 00

Thoroughbred Horses. 98. To John Minor Botts, for his tho-

BRANCH IV.

CLASS 1st.

of N. C.

bacco,

	THE SOUTHER	
	127. To T. A. Smith, for the second	173. To John Dyson, for the best Sad-
1	best, "Bald Eagle," \$10 00	dle Horse, Mare or Gelding, "John Bay," \$20 00
		174. To A. M. Aikin, for the second best,
	g	(Grey,") 10 00
	CLASS 3rd.	175. To Wm. T. Joynes, for the best
	Quick Draught Horses.	Pony, 5 00
	128. To Norman Dayton, for the best	*****
	Stallion, "Kit Carson," 40 00	CLASS 6th.
	129. To F. Felton, for the second best,	Mules and Jacks.
	"Paul Clifford," 20 00	178. To Wm. W. Baugh, for the best
	130. To E. G. Booth, for the third best,	Jennet, 6 years old, (Mouse Color,) 20 00
	"Young Sherman," CERTIFICATE OF MERIT. 131. To A. M. Aiken, for the best Brood	179. To Wm. H. Griffiths, second best,
	Mare, "Mary Fairbank," 20 00	6 years old, (Grey,) 10 00
	134. To Wm. P. Braxton, for the best	183. To Thomas R. Cox, for best two
	entire Colt foaled since 1st January, 1855,	year old Mule foaled in Virginia, 10 00
	"Virginius," 10 00	
	135. To W. B. Irby, for the best entire	BRANCH V.
	Colt foaled since 1st Jan., 1856, "Floyd," 10 00	CLASS 1st.
	136. To C. B. White, for the best entire Colt foaled since 1st January, 1857, "Red	Durham and Hereford Cattle.
	Eagle," 7 50	186. To S. C. Ludington, for best Dur-
	138. To J. C. Baugh, for the best Filly	ham Bull, three years old and upwards,
	foaled since 1st January, 1856, "Play-	"Degalma," 40 00
	Flower," 19 00	187. To S. C. Ludington, for the second
	139. To Robert Berry, for the best Filly	best, "Scipio," 20 00
	foaled since 1st January, 1857, "Nina," 7 50 141. To Chas. H. Rhodes, for the best	188. To S. W Ficklin, for the third best, "Jonathan," CERTIFICATE OF MERIT.
	pair matched Horses, Certificate of Merit.	189. To S. C. Ludington, for the best
	Being debarred from the premium on ac-	Cow, "Chance;" 40 00
	count of having been "run in a regular	190. To S. C. Ludington, for the second
	race."	best, "Red Rose," 20 00
	143. To Mr. Harvie, for the best single	195. To S. C. Ludington, for the best
	Harness Horse, Mare or Gelding, "Brown Bill," 15 00	Bull between two and three years old, "Triumph," 20 00
	144. To S. C. Ludington, for the second	"Triumph," 20 00 197. To S. C. Ludington, for the best
	best, "Mountain Hare," 10 00	
		"Bethia," 20 00
	G 43	198. To S. W. Ficklin, for the second
	CLASS 4th.	best, "Tulip," 10 00
	Heavy Draught Horses.	199. To S. W. Ficklin, for best Heifer between one and two years old, "Butter
	145. To G. W. Mowry, for the best Stal-	Cup," 20 00
	lion, "John Bennett,"  40 00	200. To S. W. Ficklin, for second best,
	146. To G. W. Ayre, for the second best "Jefferson Roan," 20 00	"Orba 6th," 10 00
	147. To Wm. B. Sowers, for the third	201. To S. W. Ficklin, for best Calf or
	best, "Morgan Frederick," CERTIFICATE OF MERIT.	Heifer, one year old, "Melody," 10 00
	148. To John M. Davenport, for best	192½. To Thomas Betts, for best Imported Durham Bull between one and two
	Brood Mare, (Bay,) 20 00	years old, "Langley," 30 00
	149. To John S. Ayre, for the second best, "Bay Roane," 10 00	189½. To Thomas Betts, for best Im-
	151. To G. W. Mowry, for best entire	ported Cow, three years old and upwards,
	Colt foaled since 1st January, 1855, "Jim	"Susan," 40 00
	Wiley," debarred from this premium under	ported Heifer, between two and three
	the 6th Standing Rule. See Horse Gen'l	years old "Matchless," 20 00
	Utility, No. 117.  158. To Robert Bowman, for best pair	186½. To Thomas Aston, for best Im-
	Heavy Draught Horses, (Iron Greys,) 20 00	I and I II and Could Paul Alaman and all and
	20 00	Inpwards, "Fair Boy," 40 00
	A STATE OF THE STA	195½. To Thomas Aston, for best Im-
	Class 5th.	ported Hereford Bull, between one and two years old, "Grand Duke," 20 00
	Saddle Horses.	1893. To Thomas Aston, for best Im-
	160. To N. Berkeley, for the best Stal-	ported Hereford Cow, three years old and
	lion, "Telegraph-Bay," 40 00	Inpwards, "Dutchess," 40 00
	166. To John P. Goodwin, for the best	1973. To Thomas Aston, for best Im-
	entire Colt foaled since 1st January, 1855, "Ingomar," 10 00	ported Heifer, between two and three vears old. "Beauty." 20 00
	10 00	years old, "Beauty," 20 00

•	
201½. To Thomas Aston, for best Here-	CLASS 4th.
ord Calf, one year old, \$10 00	Grade Cattle
	234. To Paschal Buford, for best Cow,
Craga Ond	three years old and upwards, "Mary
CLASS 2nd.	Luck," \$30 00
Devon Cattle.	235. To S. C. Ludington, for second best,
202. To H. J. Standberg, for the best	"Lady Roane," 15 00
Bull, three years old and upwards, "Nor-	236. To S. C. Ludington, for third best, (Brown Cow,) CERTIFICATE OF MERIT.
olk," 40 00	237. To S. W. Ficklin, for best Heifer,
203. To Silvester Smith, for the second pest, "Romeo." 20 00	11
204. To Alexander Garrett, for the third	238. To S. W. Ficklin, for the second
pest, "Herod," CERTIFICATE OF MERIT.	best, "Lizza," 5 00
205. To H. J. Standberg, for the best	239. To S. C. Ludington, for third best, (Brown Cow,) CERTIFICATE OF MERIT.
Cow, three years old and upwards, "Ma- ilda." 40 00	240. To S. W. Ficklin, for best Heifer,
ilda,"  40 00  206. To Alexander G. Davis, for the	between one and two years old, "Hope," 10 00
second best, "Beauty," 20 00	241. To S. W. Ficklin, for the second
207. To Martin Goldsborough, for third	best, "Faith," 5 00
pest "Rhoda," CERTIFICATE OF MERIT.	242. To Pascal Buford, for best Heifer,
208. To H. J. Standberg, for the best	one year old, "Polly Ransom," 5 00 Mr. H. Williams and H. C. Britton ex-
Bull, between two and three years old, 'Richmond."	hibited fine specimens of native Heifers,
'Richmond," 30 00 211. To Alexander G. Davis, for the	"Mary" and "Fanny;" and Messrs. S. C.
pest Bull, between one and two years old,	Ludington and P. Buford, exhibited fine
'Thom," 20 00	Bull Calves; for all of which the Com-
212. To H. J. Standberg, for the second	mittee recommended Certificates of Merit.
pest, "Victor," 10 00	CLASS 5th.
213. To H. J. Standberg, for the best	
Heifer, between two and three years old, 'Pink," 20 00	Dairy Cows. 243. To H. J. Standberg, for best Cow
214. To H. J. Standberg, for the second	for the Dairy, awarded to "Matilda," but
pest, "Cora," 10 00	debarred by the 6th Standing Rule from
215. To H. J. Standberg, for the best	receiving the premium.
Heifer, between one and two years old,	244. To Paschal Buford, for second best,
'Dahlia," 20 00	
216. To Alexander Garrett, for the second best, "Aggy," 10 00	Rule.
217. To H. J. Standberg, for the best	
Calf or Heifer, one year old, "Beauty," 10 00	CLASS 6th.
	Working Oxen.
Crung 2nd	245. To Sam'l C. Ludington, for best
CLASS 3rd.	Yoke of Oxen, over four years old, 30 00
Ayrshire and Alderney Cattle.	246. To P. Buford, for second best, 15 00
218. To David Dunlop, for the best Ayr-	247. To Alexander G. Davis, for best Yoke of Oxen, under four years old, 30 00
shire Bull, three years old and upwards,	Yoke of Oxen, under four years old, 30 00
'John Bull," 30 00	CLASS 7th.
219. To M. Goldsborough, for second pest, "Monmouth," 15.00	Fat Cattle.
222. To John G. Turpin, for second best	249. To James Walker, for best pair
Alderney Cow, 15 00	aged Fat Steers, 50 00
223. To M. Goldsborough, for second	250. To S. C. Ludington, for second best, 30 00
best Imported Alderney Cow, 15 00	
225. To M. Goldsborough, for second	Fat Steers, under four years old, 50 00 253. To S. C. Ludington, for best pair
pest Alderney Bull, between two and three years old,	IT . C TI to
227. To John G. Turpin, for the best	254. To Crouse & Irving, for second best, 30 00
Ayrshire Heifer, between two and three	255. To S. C. Ludington, for best Fat
years old, 15 00	
218½. To John G. Turpin, for second ge	259. To Crouse & Irving, for best single
best Imported Ayrshire Bull, three years old and upwards, 15 00	Fat Steer, 25 00 260. To S. C. Ludington, for second best, 15 00
231½. To David Dunlop, for best Im-	
ported Ayrshire Calf, between one and	CLASS 8th.
two years old, 15 00	Fat Hogs.
233½. To M. Goldsborough, for best Im-	262. To Dan'l Dyson, for best Pen of
ported Alderney Calf, 10 00	Fat Hogs, 10 00

C		A DOC TO I IVI IVI C I D		
CLASS 1st.		306. To J. W. Ware, for best pen Ram	24.0	00
Fine Wool Sheep.	1		310	00
264. To S. S. Bradford, for the best Ram,		307. To J. W. Ware, for best pen Ewe		
Silesian, \$20	00	Lambs,	10	00
265. To S. S. Bradford, for 2d best Ram,	- 1			
	00	CLASS 8th.		
266. To Paschal Buford, for 3d best Sax-				
C 3.5	TT G	Long Wool Grades.		
267. To S. S. Bradford, for best pen of	n11.	308. To H. M. Fowlkes, for best pen		
	00	Ewes, 3 in number,	20	00
		309. To John R. Woods, for 2d best,	10	00
	00	310. To John R. Woods, for 3d best,		
269. To S. S. Bradford, for 3d best,		CERTIFICATE OF	Мет	RIT.
CERTIFICATE OF ME	RIT.	311. To H. M. Fowlkes, for best pen of		
270. To S. S. Bradford, for best pen Ewe		Ewe Lambs, 4 in number,		00
	00	328. To J. W. Ware, for best imported	10	
271 To S. S. Bradford, for best pen Ram		Cotswold Ram,	20	00
	00			00
312. To S. S. Bradford, for best impor-		329. To J. W. Ware, for 2d best,	10	00
ted Merino Ram, 20	00	330. To J. W. Ware, for best imported	00	00
	00	Cotswold Ewe,		00
314. To S. S. Bradford, for best impor-		331. To J. W. Ware, for 2d best,	10	00
	00			
0.4 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00	Swine.		
oro. To b. b. Brauford, for 2d best,	00			
		334. To S. W. Fieklin, for best large	0.0	000
Crigana 2 4 5 6 10		Breed Chester Boar, 3 years old,	20	00
CLASSES 43, 4, 5, 6 and 9.		335. To William Turnbull, for 2d best		
Middle Wool Sheep.		Chester,	10	00
276. To M. Goldsborough, best South		336. To S. W. Fieklin, for best Boar, 1		
	00	year old Chester,	15	00
and the second s	00	337. To R. M. Poole, for 2d best,	8	00
278. To M. Goldsborough for 3d best,	00	338. To Thomas Wood for best Breed-		
	T) YM	ing Sow over 2 years old, Chester,	20	00
CERTIFICATE OF ME	RIT.	339. To John R. Woods, for 2d best,		00
279. To M. Goldsborough, for best pen		340. To Peyton Johnston, for best Sow		
	00	under 18 months old, Virginia Grazier,	15	00
	00	341. To Daniel Dyson, for 2d best, Na-	10	00
281. To M. Goldsborough for 3d best,		1 .	8	00
CERTIFICATE OF ME	RIT.	tive,	G	170
282. To M. Goldsborough, for best pen		342. To William H. Griffiths, for best	10	00
	00	lot of 9 Chester Pigs,	10	00
283. To M. Goldsborough, for best pen		343. To John R. Woods, for 2d best 9	_	00
of Ram Lambs, 10	00	Albemarle and Chester,	Э	00
316. To Thomas Betts, for best impor-		344. To Pasehal Buford, for best Boar,	0.0	000
	00	Small Breed, 2 years old Berkshire,	20	00
317. To Thomas Betts, for 2d best, 10	00	345. To Peyton Johnston for 2d best		
language of the second of the		Hampshire "Duke,"	10	00
		346. To Peyton Johnston, for best Boar		
CLASS 6th,		1 year old, Hampshire "Frank,"	15	00
		347. To Daniel Dyson, for 2d best,		
Middle Wool Grades.		Essex,	8	00
284. To John R. Woods, best pen Ewes		348. To Peyton Johnston, for best Breed-		
	00	ing Sow over 2 years old, Hampshire		
	00	"Princess,"	20	00
287. To E. Ruffin, Jr., best pen Ewe	00	349. To Lewis G. Simonson, for 2d best		
Lambs, 4 in number, 10	00	Essex grade,	10	00
and the second s		350. To John G. Turpin, for best Sow		
C ma		under 18 months old, Suffolk "Sallie,"	15	00
CLASS 7th.		351. To John W. Hobbs, for 2d best		
Long Wools.		Berkshire grade,	8	00
300. To J. W. Ware, for best Cotswold		352. To John G. Turpin, for best lot of		
	00	Berkshire and Essex Pigs,		00
	00	353. To Peyton Johnston, for 2d best lot	-	-
302. To J. W. Ware, for 3d best,		of Virginia Grazier Pigs 8 weeks old,	- 5	00
Certificate of Me	mra	or virginia Grazier rigs o weeks ord,	0	00
	KIT.			
303. To J. W. Ware, for best pen Ewes,	00	Additional Premiums on Premium Anim	ials	
	00			
	00	The Committee on Premium Animals		
305. To J. W. Ware, for third best,		beg leave to report that they have award-		
Certificate of Me	RIT.	ed Certificates of Merit—the additional		

THE ECUTHE	RN PLANTER. 747
Premiums offered by the Society, as follows:	383. To Andrew Boisseau for best pair of Great Malay, \$2 00
354. To S. C. Ludington, for the best Bull of any breed on Exhibition, for his Short Horn Bull D' Jalma.	384. To W. Rowlett, for best pair of Jersey Blues, 2 00
355. To S. C. Ludington, for the best Cow, for Short Horn Cow, Chance 2d.	Class 2d. Turkeys.
356. To John M. Botts, for thorough bred Horse Revenue.	385. To Master A. Turpin, for best pair of Common Turkeys, 2 00
357. To William C. Scott, for his thorough bred Brood Mare Pauline, by Glen-	386. To Mrs. J. C. Baugh, for best pair of Wild Turkeys, 2 00
358. To J. W. Ware, for his Cotswold Ram.	387. To Master A. Turpin, for best pair of Crested Turkeys, 2 00
359. To J. W. Ware, for his Cotswold Ewe.	CLASS 3rd.
360. To S. W. Ficklin, for his Chester County Boar, Harvey.	Geese.
361. To Thos. Wood, of Pennsylvania, for his Chester County Sow, Fanny.	389. Andrew Boisseau, for best pair of Wild Geese, 2 00
In making the examination and decision, the undersigned, S. W. Ficklin, the	of China Geese, 2 00
Chairman, retired from the Committee	391. To S. Jones Cralle, for best pair of Bremen Geese, 2 00
when the hogs were examined and deci- ded on, as he had some for exhibition,	392. To Master A. Turpin, for best pair Poland Geese, 2 00
and Wm. C. Scott for the same reason re- tired, when the Mares were examined	
and decided on. [Signed.]	CLASS 4th.  Ducks.
S. W. FICKLIN.	394. To Mrs. J. C. Baugh, for best pair
W. C. SCOTT, ALEX. S. MATHEWS,	of White Poland Ducks, 2 00 395. To Andrew Boisseau, for best pair
M. GOLDSBOROUGH, W. S. WOOD.	of Muscovy Ducks, 2 00 397. To Andrew Boisseau, for best pair
CLASS 1st.	of Common Ducks, 2 00
Poultry—Chickens	CLASS 5th.
362. To Master A. Turpin, for best pair of Cochin China, \$2 00 363. To Master A. Turpin, for best pair	399. To Andrew Boisseau, for the greatest variety of Poultry by one exhibitor, 10 00
of Imperial China, 2 00 364. To Master A. Turpin, for best pair	BRANCH VI.
of White Dorkings, 2 00 367. To W. Rowlett, for best pair of	AGRICULTURAL IMPLEMENTS.
Black Poland, 2 00 369. To Master A. Turpin, for best pair	CLASS 1st.
of Silver Pheasants, 2 00	Plows, Cultivators, &c.
372. To W. A. Pearson, for best pair of White or Red Game, 2 00 373. To Andrew Boisseau for best pair	400. To Uriah Wells, for the best three or four horse Plow (Livingston,) 10 00 401. To Wm. Alston, N. C., for the best
of Brahma Pootra, 2 00 374. To R. M. Poole, for best pair of	two horse Plow, No. 23, 8 00 402. To George Watt for the best single
Virginia Game, 2 00 375. To Master A. Turpin, for best pair	Plow, Watt's No. 1, 5 00 403. To Uriah Wells, for the best shovel
of Black Spanish, 2 00 376. To Master A. Turpin, for best pair	Plow, 5 00 404. To E. Whitman, for the best Sub-
of Indian Mountain, 2 00 377. To Andrew Boisseau, for best pair	soil Plow, 5 00 405. To George Watt, for the best new-
of Wild Indian Game, 2 00	ground Coalter Plow, 5 00
of Sumatra Game, 200	
379. To Master A. Turpin, for best pair of Ostrich Game, 200	407. To Wm. Alston, for the best Cultivator for corn,
381. To W. A. Branch for best pair of Sea Bright Bantams, 2 00	
382. To Andrew Boisseau for best pair of Java Bantams, 2 00	409. To Sayre & Remington, for the best Cultivator for two horses,  5 00

410. To Uriah Wells, for the best wood-	450. To E. Whitman, for the best Hay
en-frame Harrow, \$6 00 411. To ——— Ramsey, for the best	Press, \$15 00 454. To E. Whitman, for the best steel
iron-frame Harrow, 6 00 412. To A. P. Routt, for the best Drain	Spade Fork, 2 00 455. To G. B. Griffin, for best Horse
and furrow Plow, 10 00	Rake, (Pratt's,) 5 00 456. To G. B. Griffin, for the best
CLASS 2nd.	Gleaner, (Pratt's,) 3 00
Drills, Broadcasters, &c.	CLASS 8th.
414. To Willoughby & Black, for the	458. To E. Whitman, for the most ex-
best Wheat Drill, 20 00	tensive and valuable collection of useful Machines and Implements, 25 00
CLASS 3rd.	—
Wagons, Carts, Harness, &c.	CLASS 9th.
421. To P. & J. Van Pett, for the best Wagon for farm use, 10 00	Miscellaneous. 459. To R. Brittingham Mitchell, for the
<u> </u>	best Pump adapted to deep wells, 10 00
CLASS 4th.	Water Ram in operation, 10 00
Rollers, Clod-crushers, &c.	461. To E. Whitman, for the best Scoop
429. To Warren & Billups, for the best Smooth Roller, 10 00	or Scraper, 10 00 464. To J. Wm. Vincent, R. J., for the
	best Sausage Cutter, 2 00 466. To Wheeler & Wilson, for the
CLASS 5th.  Horse Powers, Threshers, Separators, &c.	best Sewing Machine, 10 00
433. To E. Whitman, for the best Sweep	— 19:1.
Horse Power, 25 00	CLASS 13th.  Reaping and Mowing Machines.
434. To H. M. Smith, for the second best, 10 00	477. To C. Aultman & Co., Ohio, for the
435. To E. Whitman, for the best Threshing Machine, 20 00	best Reaping Machine, 25 00 478. To C. Aultman & Co., for the best
436. To E. Whitman, for the best Ma-	Mowing Machine, 20 00
chine for threshing, cleaning, and separa- ting Wheat at one operation, 30 00	BRANCH VI.
_	CLASS 1st.
CLASS 6th.	Fruits and Fruit Trees.
Straw and Root Cutters, Corn Shellers, &c.	480. To Joseph Sinton & Son, for the
439. To G. B. Griffin, for best Straw Cutter for horse power, 10 00	largest variety of Apples suitable for Southern raising, labelled, 10 00
440. To G. B. Griffin, for best Straw Cut-	483. To Franklin Davis, for the best
441. To G. B. Griffin, for best horse	and largest collection of Apple Trees suitable for Southern raising, 10 00
power Cutter for cutting Corn-stalks for fodder, 15 00	484. To Franklin Davis for the best Pear Trees, &c., 10 00
442. To Uriah Wells, for best Corn Shel-	485. To Franklin Davis, for the best
ler for horse power, 443. To Uriah Wells for best Corn Shel-	Peach Trees, &c., 10 00 487. To Franklin Davis, for the best
ler for hand power, 5 00 444. To John Moore, for best Grist-mill	Grape Vines, 5 00
for horse power, 10 00	488. To J. Standbury, for the best Straw- berry Vines, 3 00
445. To W. H. Tappey, for best Saw-mill for farm use, 10 00	489. To Franklin Davis, for the best Raspberry Plants, 3 00
447. To E. Whitman, for the best Root Cutter, 2 50	490. To D. E. Watkins, for the best
— 2 00	bushel of Dried Apples, 3 00 491. To D. E. Watkins, for the best
Class 7th.	bushel of Dried Peaches, 3 00
Fanning Mills, Hay Press, &c.	CLASS 2nd.
449. To J. Montgomery & Brother, for the best Fan-mill, Certificate of continued	Flowers.
superiority in lieu of the first Premium be-	493. To James Ayres, of Petersburg, for
ing debarred by having twice before re-	the largest and choicest collection of

499. To James Ayres, of Petersburg, for	524. To Mrs J. C. Howlett, for Second
the best and largest collection of chrysan-	best, \$4 00
themums, \$3 00	<u>-</u>
500. To Mrs. J. B. Varnum, of Peters-	CLASS 1st.
burg, for the best Floral Ornament, 5 00	Household Manufactures.
501. To Miss Anna Joynes, of Peters- burg, for the best hand Bouquet. 2 00	
burg, for the best hand Bouquet, 2 00 503. To Franklin Davis, of Staunton,	best Bed Quilt, 5 00
for the best and largest collection of Ever-	526. To Miss C. R. Turner, for the
greens, 5 00	
504. To Franklin Davis, of Staunton,	527. To Mrs. Van Pelt, for the best
for the best and largest collection of hardy	Counterpane, 5 00
Flowering Shrubs, 5 00	
The Judges also find in this Department ar	
Orange Tree, exhibited by Joseph W. Hobbs, or	
Petersburg, in a healthy and flourishing con-	for the best pair home-made Blankets, 5 00
dition, and exhibiting proofs of skilful and suc-	
cessful culture, for which no premium is offered	home-made Carpet, 5 00
and which they therefore recommend for a dis-	536. To Mrs. A. A. Rowlett, for the best
cretionary premium of \$3.	10 yards heavy woolen Jeans, 5 00
	537. To Mrs. Henry Jarratt, for the
CLASS 3rd.	second best, 3 00
Vegetables.	538. To Mrs. R. H. Allen, for the best 7
	yards Linsey, 5 00
505. To L. Chamberlain, for the largest	539. To Miss Eliza Trotter, for the
and best assortment of Vegetables, 10 00	second best, 3 00
506. To B. K. White, for the best dozen	-
long Blood Beets, 2 00	Class 2nd
507. To L Chamberlain, for the best	541. To Mrs. J. C. Burtou, for the best
dozen heads of Cabbage, 2 00	fine long yarn Hose, 3 00
510. To L. Chamberlain, for the best dozen Carrots, 2 00	544 To Mrs H A Montan fourth a heat
511. To L. Chamberlain, for the best	specimen of home-made wine, 5 00
dozen Egg Plants, 2 00	545 To Man D W Donal Complete house
512. To L. Chamberlain, for the best	specimen of home-made Bread, 5 00
peck of Onions, 2 00	546. To Mrs. Wm. T. Joynes, for the
513. To L. Chamberlain, for the best	best home-made Pound Cake, 3 00
dozen Parsnips, 2 00	547. To Mrs. James Ayres, for the best
514. To L. Pcebles, for the best bushel	home-made Sponge Cake, 3 00
of Irish Potatoes, 2 00	548. To Mrs. James Ayres, for the best
515. To L. G. Simonson, for the best	home-made Pickles, 3 00
bushel of Sweet Potatoes, 2 00	
Mrs. Robert Dunlop exhibited some very fine	550 To Mys Tomas Avyes for the heat
Egg Plants, but not in sufficient quantity to en-	variety of home-made Fruit Jelly, 3 00
title her to the premium.	551. To Joel Sturdivant, for the best
	home-made Soap, 5 00
BRANCH VII.	The Committee recommended the award of
CLASS 1st.	a discretionary Premium to Mrs. H. A. Morton,
	for her successful cultivation of the Cranberry.
Butter and Cheese.	
516. To E. Cummings, for the best spe-	CLASS 3rd.
cimen of Fresh Butter, 10 lbs., 10 00	
517. To Mrs. McCaw, of Powhatan, for	552. 10 Mrs. Maria Gilliam, and Miss
best specimen of 5 lbs., 5 00	A. Du Pre, for best Specimen of Em-
Mrs. E. O. Watkins and Mrs. Barksdale ex-	prodery, 8 00
hibited fine specimens, but little inferior to	500. 10 miss bue mainson, and miss b.
those for which the premiums were awarded.	L. Grigg, for second best,
	556. To Mrs. J. N. Gordon, for best Specimen of Crotcheted Work, 8 00
CLASS 2nd.	Specimen of Crotcheted Work, 8 00 557. To Miss Maria E. Cook, for second
	best, 6 00
Honey, Bec-Hives, and Bacon Hams.	558. To Mrs. Mary A. Morton, for best
521. To B. K. White, for the best speci-	Specimen of Wax Work, 8 00
men of Honey, not less than 10 lbs., 5 00	559. To Mrs. James L. Howlett, for 2nd
522. To A. S. Maddox, for the best Bee-	best, 6 00
Hive, (Phelps' Patent,) 10 00	
523. To Mrs. James Ayres, for the best	and Miss Cecilia Houze, for best Specimen
Ham cured by exhibitor, 8 00	of Feather Work, 8 00
	,

563. To Mrs. Howell, (Sussex.) and To Wm. E. Stewart, one set Carriage Harness, \$6 00 first Premium. Mrs. M. M. Goodwin, for second best, 564. To Mrs. Toole, (Petersburg,) for best Specimen of Block Work, To Dawson & Wilkins, (Lynchburg.) 1 Ladies' 8 00 Saddle and one Man's Saddle, No. 1 and 2, first 565. To Mrs. Stephen Watkins, for Premium. second best, 566. To Mrs. D'Arcy Paul, and Mrs. 6 00 To T. A. St. Clair, of Petersburg, one Buggy exhibited by him, first Premium. Mildred Campbell, for best Specimen of To John Camp, for superior Carriage, made in 8 00 Petersburg and exhibited by him, first Premium. Knitting, 567. To Mrs. Gilliam, (Prince George,) To Spears & Cole, for a lot of Leather, ex-6 00 hibited by them, first Premium. for second best, 568. To Mrs. P. Woolfolk, and Mrs. J. E. Williams, for best Specimen of Netting, 8 00 Discretionary Premiums. 569. To Mrs. S. A. T. Clay, (Chester-The Committee on Discretionary Premiums 6 00 field,) for second best, have awarded the following: The Committee recommended in their Report Thomas Betts, of England, for his Imported the following as worthy of Discretionary Premi-Short-Horn Cow, "Blush Rose," \$40 00 ums, but failing to give to the exhibitors the For his Imported Short-Horn Cow, "Jenecessary Certificate in the form prescribed by 20 00 the Rules of the Society, the subjects were not For his best Imported Hampshire Ram, 20 00 brought to the notice of, nor were they considered For second best 20 00 do., by that Committee. For his best Imported Ram, a cross of 20 00 Mrs. Joseph C. Burton, for a skilfully and ele Southdown and Hampshire, gantly made Gentleman's Shirt. do., 10 00 Second best Miss Sarah W. Parsons, ditto. Col. Lilly, of Augusta, for his instru-20 00 Miss Susan Maxwell, for a handsome Embroiment for Surveying and Calculating Areas, dered Bonnet. J. W. Hobbs, for his Orange Tree, 3 00 Samuel C. Ludington, for his two year Miss A. Harrison, for a beautiful Shawl, made 20 00 10 00 Miss Mary B. Roberts, of Petersburg, for a Paschal Buford, yearling Bull, handsome Bonnet and Flowers, made by her. Theodore Baily, Dumping Wagon, 10 00 Mrs. A. Cairns, of Petersburg, for a Case of ele-Mrs. A. C. Morton, Asparagus, 2 00 W. H. Tappey, Tobacco Press, 10 00 gant Milinary. C. Fisher, three year old yellow Mule, Mrs. Shakespeare Caldwell, of Cincinnati, for 10 00 E. D. Tannahill, collection of Game a beautiful Specimen of Embroidery, which was entered after the Premiums had been awarded. Chickens, 2 00 To S. Shell, for collection of Roach Traps, 2 00 Domestic Manufactures. Geo. A. Ayres, of Loudoun, a Certificate CLASS 1st. of Merit, an extraordinary yield of Rye 571. To J. O. Dickinson, for the best on 13 acres, For Saddle Cloths and Trapping, Miss Flour, made of White Wheat, a Cogbill, Petersburg, 2 00 CERTIFICATE OF MERIT. Frame of Raised Embroidery, Mrs. J. C. Walsh, of Lynchburg, 572. To Messrs. Kevan & Brother, for 2 00 the best Flour, made of Red and White A worked Piano Cover, Mrs. S. A. Fin-Wheat mixed, CERTIFICATE OF MERIT. nev. 2.00 Pair of Ottomans, Miss Rowlett, 2 00 CLASS 2nd. Mrs. Jarratt, do. 2 00 573. Gilman, Lyon & Broadnax, for best B. F. Thompson, slaughtered Mutton, Specimen of Manufactured Tobacco, (Julia CERTIFICATE OF MERIT CERTIFICATE OF MERIT. Carroll brand,) a Mr. Burton, for Carpet Sweeper, 587. To Dr. Alfred Whitehead, for Es-North Chase, improved Self-Ventilating tablishing and Maintaining in Virginia, Refrigerators, for six months, in successful operation, a Mr. Burton's Old Dominion Coffee Pot, \$50 00 Factory for Tubular Draining Tiles, Wm. H. Rodgerson, specimen of home 588. To Dr. Alfred Powell, for best Sample of Tubular Draining Tiles, made Starch, 5 00 Mr. Burton, for his invention of a Car-591. To Augustus H. Drewry, for the pet Holder, best Drained Farm, &c., 50 00 Jabez Smith, for his production Hun-The Special Committee appointed to examine garian Grass, and pass on sundry articles not specified in the 66 T. J. Clarkson, Shingle Machine, Premium List, and some of which were not on Bayer & Boyle, for Circular Saw, 44 exhibition in time to be examined by other Com-John Viles, specimens of Roofing, mittees on the first day, submitted the following Mr. Burton, for his invention of a Milk Report:

Samuel Sutherland, for collection of

Guns,

To Wm. E. Stewart, (Petersburg,) one set Sin-

gle and Buggy Harness, first Premium.

Lundie Ingersoll, for his invention for producing Rotary Motion, CERTIFICATE OF MERIT. Yardly Taylor, for his Plan and Description of a House for Drying Fruit,

To Paschal Buford, for Basket,

For want of sufficient time to properly investigate all of the very many subjects referred to the Committee, it is thought not improbable that some one may have been overlooked, and this explanation is made with the hope of satisfying any reasonable person who may have been neg-

#### From the Lynchburg Virginian.

#### Agriculture as a Profession.

At the present time, when we have so many among us who are engaged in agricultural pursuits, a few reflections upon Agriculture as a profession will not be considered inappropriate or out of place. Poets have sung of the beauties, advantages and pleasures of this glorious life. Statesmen, after the turmoil and labor of political life, and the contentions of the Legislative Hall, have gladly sought repose and retirement on the farm. Merchants, when the vexations and toils and uncertainties of their calling have worn out their health and energy, longingly hope to spend the remnant of their days in the tillage of the soil. Professional men, harassed with their cares and responsibilities, and their rough contests with their fellow-men, fondly indulge in the same expectation-and who have tried it have found their fullest expectations realised.

Agriculture, of course, has its cares and annoyances. Every profession has these to encounter. It is fore-ordained that man must live by the sweat of his brow-and industry and care and labor are requisite for success in every employment. We speak by comparison when we say that the culture of the soil combines more positive pleasures, with fewer disagreeable incidents, than any other calling. In the first place, it is the most independent life which any man can follow. While the politician, and the merchant, and the professional man, and the editor must have daily intercourse with men, and must exercise prudence and forbearance, and must humor this one, and consult the prejudices of the other, and must bear with ill-temper, and ignorance, and unreasonable requirements of those with whom they have dealings, the Farmer, on the contrary, is independent of them all. When his crop is ready for the market, he has only to sell at the highest price he can get, and here his necessary intercourse with all others ends. He may pursue the even tenor of his way, regardless of the opinions of the world.

In the next place, it is the most healthful of all pursuits. The statistics of mortality prove than any other class. While he has principally water.

physical labor to perform, other professions have mental labors in addition, which harass the mind and wear down the constitution .-Farming, it is true, is a laborious life-but this very labor strengthens the frame, conduces to health, promotes longevity, and gives zest to the planter's life.

Take it all in all, farming is about as remunerative as any other profession. Ten merchants fail in business where one farmer does. Professions men rarely grow rich from their professional alone, and politicians notoriously die poor, unless they accumulate wealth by

stealing.

If the farmer, at the end of the year, has been able only to "make both ends meet," he has done well-for his property is increasing and accumulating all the time. In fact, it is a much more profitable business than many of those engaged in it are themselves aware of .-True, the farmer has to encounter occasionally bad seasons and short crops, and low pricesbut, in the long run, the general average is favorable to him. And what he falls short in one year, he is very apt to make up in another.

The farmers and planters of the South, in a political point of view, constitute the great conservative class of the country. They are not so subject to violent excitement, and are not so easily carried away by passion, as the commercial and manufacturing classes of the large cities. Where they are educated and intelligent, as most of them are, they are averse to everything like mob-law and insubordination. "O, fortunatos Agricolas, si sua bona norint," was the exclamation of the Latin poet nearly two thousand years ago, and the remark may be made with still greater truth at the present

#### Co-Operation of the Wife.

There is much good sense and truth in the remark of a modern author, that no man ever prospered in the world without the co-operation of his wife. If she unites in mutual endeavors, or rewards his labor with an endearing smile, with what confidence will he resort to his merchandise or his farm, fly over lands, sail upon the seas, meet difficulty or encounter danger, if he knows he is not spending his strength in vain, but that his labor will be rewarded by the sweets of home.

Valley Farmer.

#### To Preserve Cut Flowers.

Procure a flat dish of porcelain, into which pour water sufficient to nearly fill it; in the water place a vase of flowers, and over the the farmer to be longer-lived, in the general, vase place a bell glass with its rim in the



## THE SOUTHERN PLANTER

RICHMOND, VIRGINIA.

MR. FITZHUGH CATLETT is our authorized agent (at Guiney's Depot, Caroline County,) to receive money for us, and to give receipts. New subscribers are requested to leave their names with him, daily, if not oftener.

Mr. Geo. C. Reid is our Agent in Norfolk, Virginia.

F. N. WATKINS, Esq'r., at the office of the Farmers Bank of Va., at Farmville, is our authorized Agent to receive money due for subscriptions to this paper and to grant receipts therefor. Our subscribers in Prince Edward and the counties adjacent will please call on him.

Major Philip Williams is our authorized agent to receive subscriptions, and give receipts for us. See his card in our advertising sheet. Our subscribers in Washington City, and Georgetown, D. C., will confer a favor on us by settling their bills with him.

AUGUST & WILLIAMS.

#### Perseverance.

So various are the vicissitudes of life--so many the disappointments that await alike the sanguine and gloomy-so true is it that "man is born unto trouble"-so easy is it for riches to "make unto themselves wings and fly away," that perseverance is not only a quality to be admired in the character of a man, but it is an essential prerequisite to success in all our undertakings. What a life of ennui and satiety we should lead, did we not have occasion, more or less frequent, for arousing all our faculties of both body and mind, to overthrow some obstacle in our pathway, and to cause us to hope. A life with nothing left to hope for, would not be worth the having -trackless as the sca, its voyager would have no goal ahead-leave no mark behind.

We should not be contented to fill up our ous principles, (not impulses,) point out to us whole volume of life with the ever-present the means of employing the wealth acquired now, but making sure of the right way, "go by the blessing of Providence on our own ef-

ahead," leaving behind us a record of industry, probity, and charity—carrying with us a heart full of "good will to men,"—hoping for the future to abound still more in every good work. Alas! this is easier said than done. We are surrounded by every sort of temptation to lead a life of selfishness, and ease, and to forget our duty; but so much the greater is the necessity for effort, which, being made, brings its reward of renewed vigour to mind and body—the ability and strength for still greater undertakings, and the enjoyment of larger intellectual capacities.

How often in our every-day experience do we see what is and can be effected by perseverance. At school the dull boy who attends to his books, and labours to discharge the duties of his position, attains, and retains, a much more respectable rank as a scholar, than the "smart fellow" who lacks perseverance, and easily succumbs to difficulty. So it is in all classes—in every one of man's various pursuits, the steady, persevering, and industrious win life's prizes.

Try again; if failure attends one effort in a good cause, make another. A persevering, determined "I will," has helped many a man over difficulties which at first view seemed insurmountable, and can help many others over as many more.

It is as much a duty to work on, even amidst great discouragements, as it is natural to hope when the present is a disappointment of all our brightest anticipations. There is a necessity that we should accept the trials, discouragements, discomforts and disappointments which pertain ordinarily to our stations in life—many of which seem to us to be the fruit of fortuitous circumstances, since our places are marked out for us by the wisdom of Providence, and there is no such thing as chance.

It remains for us, then, if we would secure as much happiness as is presented by the things of the world, to keep in view an object worthy of pursuit, and to persevere in our efforts to win success. If it be the acquisition of wealth, let it not be for the sake of wealth alone: but let the longings of a tender heart, keenly alive to human sympathies, and generous principles, (not impulses,) point out to us the means of employing the wealth acquired by the blessing of Providence on our own ef-

forts in such manner as to benefit the needy, and to carry comfort and succour to the afflicted and distressed. Every good man will cry, God speed to all effort made for such an object and so good a cause. But the man who toils for money to hoard, or to spend upon himself alone, must be pitied, or despised. We know not which he most deserves, to be despised for his narrowness of mind, and absence of soul--or to be pitied for his ignorance of the existence of so many sources of true happiness, which he has neglected or thrown away in failing to attach himself by bonds of compassion and benefaction to the suffering and needy of his race. He is an outsider of the human family; but is no connexion, and can never come within the circle of affection which surrounds the worthy members, and secures for each the respect and sympathetic cooperation of his fellows.

We must not be discouraged by the perplexities and doubts which often surround us, while pursuing the only path which we think duty allows us to follow; but perseverance in our egitimate calling, cheered on by the approv, ng smiles of conscience, we will know no such word as fear.

"Tho' clouds hang o'er us, there's a blessing Waiting for us, we'll not fear:

In the right path we're progressing,-We'll trust in God and persevere."

Brother farmers, do we not greatly need perseverance in our own profession, at the resent time of disaster to crops and herds? To our lot it most especially falls to feel the ull force of the fiat, "Cursed is the ground or thy sake." Shall we despair? ather let us redouble our energies, and strive o make good our losses and want of success n most of the branches of agricultural indusry. Let us improve our lands as much as ossible. So we shall add to our prospective iches, and be laying up a hoard on which we nay draw at some future day.

#### Our Next Volume.

With the present Number, our 18th Volume closed, and it is proper that we should at the nd of the year speak of what we expect to do return for the patronage of our friends, in ir next volume.

measure of expectation of all its friends; nor do we intend that any effort on our part shall be wanting, to improve its pages constantly, and to make it more and more worthy of the support of all farmers.

If we can have their co-operation, we know it must improve steadily and rapidly. In this connection, let us say to all our brother farmers, that they have it in their power to benefit themselves as well as us, by sending us as contributions to our store of facts and theories, everything worthy of observation in the circle of their own agricultural duties. What interests one must be of interest to many others, in so large a family; while the constant interchange of opinions through the medium of agricultural papers, helps the paper, helps the farmer, and the cause in which both editor and farmer should be deeply interested. We can only pledge ourselves then for an earnest and faithful performance of our part, in the cause of agricultural progress. May we not expect to have support of those who are co-workers with us in "tilling the soil?"

We believe it, as it has been said with truth, that when a man has done all in his power to discharge faithfully his own duty, he acquires "a right to expect the blessings of Providence on his honest industry?"

We have made arrangements to improve the type and paper, and our next volume will present a neater appearance to its friends. This much for the outside-may it prove a temptation to many farmers to find themselves in print within.

We shall make every honest effort to increase our circulation, and while we regret being too modest to ask a man to subscribe to our paper when we meet him, still, in the quiet solitude of our office, we do not hesitate to make this silent appeal to every man who has two dollars unappropriated, to subscribe to the So. Planter.

We would call the attention of our subscribers to the fact that our advertising sheet does not encroach upon the sixty-four pages of reading matter legitimately belonging to every num. ber of the Southern Planter, and that every page of advertisement is printed upon an extra sheet, which while it costs subscribers nothing, is a very material aid to us.

We make this explanation, in consequence We trust that the Southern Planter fills the of having heard that the enlargement of the

Planter, was believed to be by some of our subscribers, only an increase of its advertising business—the size being doubled by that means.—We hope every one laboring under such misapprehension, will now understand the matter.

#### The Fairs.

The U. S. Agricultural Society held its annual show in Richmond, in connection with the Virginia Central Society, October 25th, 26th, 27th, 28th, 29th and 30th, and the Virginia State Agricultural Society united with the Union Society in an exhibition at Petersburg, November 2nd, 3rd, 4th, and 5th. Many of our Virginia readers, we take it for granted, witnessed these exhibitions. If they like, as well as we do, to look at fine stock, and to scrutinize their "points," we are very sure all had a look for themselves who could get away from the cares of home.

The show of Short-horns by Mr. Ludington, of Greenbrier, was the best we ever saw. Among them was a white heifer, a perfect beauty, which was said by some experienced breeders to be the most perfect animal of her Class (fat Cattle) they had ever looked at. Mr. Betts had some imported Short-horns at the Petersburg Fair, which were fine, but were not in our opinion equal to Mr. L.'s Kentucky heifers, which goes to prove that all England can't beat Kentucky "Blue-grass." Indeed, without professing to be much of a judge in these matters, we can't help believing that we have now in the hands of the breeders of the United States as fine stock of most kinds, as any that can be imported from England or elsewhere. The Devons were well represented in the herds of Messrs. Strandburg, McHenry, Bowie & Davis.

Mr. Aston, of Ohio, had some Herefords which were very fine—these being the first we believe ever exhibited in Virginia.

The show of horses was good enough. Fine specimens of every class being on the grounds.

We have seen larger collections of stock and machinery on the Richmond Grounds, than was present at the Fair of the U. S. Ag'l Society; but the *quality* of the articles exhibited was "hard to beat."

The number of sheep and hogs and cattle earned reward of their E was greater at the Petersburg show than in Richmond, and in this respect was (we think) neat and richly stored pages.

the best exhibition ever made by the State Society.

As to the speeches made, we can say nothing of them, as we could not get on the grounds time enough to hear any of them.

We had the pleasure of making the acquaintance of some of our Editorial brethren from different States who were visitors to our city, and regret having missed seeing several others. We hope, however, this pleasure is in reversion for us.

We give insertion to the Premium List of the Virginia State Society in our present No. The Premiums awarded to particular animals will call the attention of our readers to them, and to the exhibitors' names also.

We have not space for an extended notice of the Fairs, but are glad to say that we have assurance of success from all the exhibitions held in the State this year. We are glad to see it, and from the bottom of our heart we say, let

#### "Old Virginia never tire."

We have been promised engravings of some of the sheep exhibited, which, when we get them in possession, will be inserted in the Planter.

#### To Subscribers in Arrears.

To every subscriber who shall send us before the first day of February next, the amount now due us, together with his subscription, we will send along with the receipt a sufficient number of P. O. stamps to pay for the postage on the volume for 1859.

We hope they will all avail themselves of this offer, as there are so many of them who are in arrears, that we shall be greatly benefitted by their compliance.

We have the pleasure of adding to our exchange list "The Wisconsin Farmer and Northwestern Cultivator," the acquaintance of whose Editors we had the happiness to make at the late Fairs here and in Petersburg.

We hope they may long live to indulge pleasant memories of their brief sojourn in the "Old Dominion," and to reap the well-earned reward of their Editorial labours, which are so favourably represented by their neat and richly stored pages.

Petersburg, which no doubt they well merited; viz: R. A. Willis' "Young America," W. C. Archer's "Lady of the Lake," W. P. Braxton's "Virginius."

#### Nottoway Club.

This association of practical farmers is one of the most useful auxiliaries in the cause of agricultural improvement and progress to be found among the many clubs existing in Eastern Virginia. They have a standing rule requiring from each of its members a report upon some one or more experiments conducted by him, or other essay of a useful and instructive

Some of these reports have been from time to time laid before the readers of the Planter, and we now have to acknowledge the kindness of the secretary in furnishing us with a number of the latest of them, which we shall be pleased to bring out in our next issue. Meanwhile, the report of Mr. Wm. Irby is published in advance of the rest, because if its suggestions are followed, as we doubt not to some extent they will be, no time need be lost in procuring and burying the chestnuts for planting in the spring.—[EDITOR.

#### Mr. President:

As I have been disappointed in perfecting the experiment which I intended reporting as my annual contribution, I beg leave, in lieu thereof, to offer a few suggestions on the expediency and benefits of rearing chestnuts trees on farms deficient in woodland.

On my own and an adjoining farm there are several large chestnuts trees, which, I suppose, sprung from the nuts planted. Around these, as far off in some instances as a half mile, (since the land has been enclosed and thereby rendered inaccessible to hogs,) I find there are a great many young chestnuts springing up among the old field pines, from nuts dropped by crows and squirrels, I find these growing thriftily on poor land, from which I conclude that the tree will grow in our section of country on any dry land that will produce old field pine. As wood for fuel and timber is already scarce on many farms, and must become more and more so, it would be wise for the owners of such farms to make preparation for a supply for future generations. It is true the old field pine springs up spontaneously, and grows rapidly on land thrown out of cultivation, but it is very indifferent for fuel and rails, which the chestnut is not only admirably adapted for both

Several "Kossuth" colts took Premiums in these purposes, but would also be a great accession for the mast for hogs. As to the mode of rearing I cannot speak from experience, but think it would be well to follow the indications of nature—i. e. to bury the nuts slightly in the fall of the year, and before they germinate in the spring plant them, or they might be planted in the fall where it is designed for them to grow, or a nursery might be made, as I find they will bear transplanting. A very decided advantage which this tree has over the old field pine is, that when cut down, the sprouts spring up very soon from the stump and grow very rapidly, which would afford a continued supply of timber on the same land. I am persuaded from my observations that it would not be difficult to have a large portion of our poor land well set in chestnut, which certainly would render it much more valuable than it is, in its present condition.

Respectfully submitted.

WM. IRBY.

P. S.—Although foreign to the subject of the above report, I will state that I am convinced from my present year's experience that a covering of wheat straw on high land plant patches is superior to brush. The patch should be covered thick enough to hide the ground, and if found too thick in the spring, a portion of the straw may read:ly be removed with a manure fork. I will also state that I think if our plant patches were thickly surrounded by pine bushes, they would be in a great measure, if not entirely, protected from the ravages of the fly.
August 13, 1857.

#### To Subscribers.

In consequence of the change in the Proprietorship of the "Southern Planter," it is very important that our subscribers should remit the amount of their indebtedness with as little delay as possible.

The amount due from each subscriber is in itself comparatively trifling, but in the aggregate it makes up a very large sum, and if each subscriber will consider this as a direct appeal to himself, and promptly remit the amount of his bill, it will be of infinite service to us.

We commence sending with this number the bill to each subscriber who is in arrear, and shall continue to do so until all shall have been sent out. We ask, as a favor, a prompt response from all.

The bills are made up to 1st January next. The fractional part of a dollar can be remitted in postage stamps, or the change returned in the same. AUGUST & WILLIAMS.

#### To Postmasters and Others.

We are satisfied, that with proper exertion, any person who will interest himself for us, will be able to make up a list of new subscribers for the "Planter," in almost any neighborhood, in this or any other of the Southern States. We offer, as an inducement to those who are disposed to aid and encourage us in our efforts to extend the circulation of this paper, the following premiums in addition to our hitherto published terms:

To any person who will send us clubs of

3 new subscribers and \$6,—

The So. Planter for 1857.

6 new subscribers and \$12,-

The So. Planter for 1857 and '58. 9 new subscribers and \$18,—

The So. Planter for 1857, '58 and '59, 15 new subscribers and \$30,—

The So. Planter for 1857, '58 and '59, and a copy of the Southern Literary Messenger for one year.

To single new subscribers we will send the present volume, (commencing with the number for January, 1858,) at the low price of \$1 50, paid in advance.

We call upon every one interested in promoting the progress and improvement of agriculture, to lend us his aid in contributions of original articles on practical or scientific agriculture, in order that our paper may continue to be worthy of the confidence and support of those who have hitherto so liberally sustained it, and to whose interests its pages will continue to be zealously devoted.

AUGUST & WILLIAMS.

For the Southern Planter.

Hog Killing and Making Bacon.

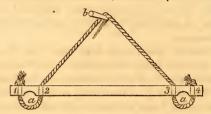
Mr. Editor,—Your method of killing hogs and making bacon, is a very good one. I think so because it is very similar to one I successfully practice. But I would earnestly protest against making one of our great occasions, a mere afternoon piece of work. In this region we regard "hog killing" as a jubilee, second

only to Christmas.

Having gotten every thing in perfect readiness over night, the hands turn in at an earlier hour than usual, to be called at 2 A. M. if fair—if not, the next fair day. At the appointed hour, the overseer, the foreman, or the judge of the weather, repairs to the killing ground, and if the sky indicates a favourable day, with a loud halloo applies the torch, which speedily brings all hands to the ground and the pile to a glorious big blaze. 'Tis an bonour to stick the first hog, and a reproach if the half pen is not swung by breakfast; you then have time to wind up the whole business, and your hogs are in nice condition to handle if the heavens are

threatening, if clear they are suffered to hang all night out of doors. My bacon, although invariably excellent, was never so good as last year, we en I was induced by my overseer to drop each ham, for five minutes, in a strong red pepper tea before rubbing with salt. I find that it is a popular idea in a portion of this county, that a hog should have little or no water after being put in the fattening pen, my experience is contrarywise.

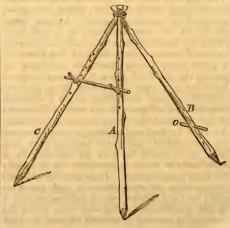
I give them a liberal supply of pure fresh water. I have a gambrel, which is a great convenience to one who has much butchering to do, or who spays his shoats in the belly. It is a simple stick of wood of any size and length—say 2 feet long, and 2 inches in diameter, with 2 holes in each end, 2 inches apart. Thus,



with a rope passing through holes 2 and 3 and returned through holes 1 and 4 and knotted, the hind feet are inserted in loops a a which tighten when the animal is suspended on pin b. I first saw this simple thing used by a ne-

gro in Caroline county.

I have a better contrivance for swinging a beef, and just as simple; it consists of 3 stout poles, 13 feet long, connected just as the three legs of the sheers for hoisting threshing machines. When you are ready to hoist your beef, stretch your tripod on the ground in the shape of a Y, the outside legs on either side of the animal; pass the ends of the gambrel, (which is a plain stick, passed through the hind legs in the usual way) over 2 stout pins inserted in the outside legs of the tripod, and with a man to each leg hoist away. After



raising a few feet from the ground, one man | ken up, and new affinities evolved. can manage it-provided the feet of the tripod are sharp and take good hold in the ground. There should be a number of holes in the outside legs A and C—that the pins may be raised or lowered according to the size of the animal. A stout pin o, 2 feet long, inserted in leg B, will assist in hoisting. Any negro can make it of 3 stout fence rails, and pack it on his shoulder to any spot you may select to kill. Yours, LOUDOUN.

For the Planter.

#### Action of Lime.

MR. EDITOR:

Before giving you the results of my experiments in regard to the action of Lime, (and) which I shall always take pleasure in doing,) I must guard you against placing any confidence in them, in view of the title with which I have been complimented. My only claim to! the distinction referred to, should be credited to the kind feelings of an old and much valued

Some years since, I made an application of 30 bushels of Lime to a measured acre of land, by the way of experiment. This acre was similar in quality and character to the rest of the field, the whole being what is termed a clay soil. The field was put in corn and followed by oats and wheat, but no beneficial effect was discernable upon either of these crops. Indeed the effect seemed to be rather injurious than otherwise; and the same remark may be extended to the three years it remained in grass. When put in corn again, however, this acre could be readily distinguished by the greater luxuriance of the growth, and this superiority was maintained throughout the season. This singular and unlooked for result, after a lapse of six years, led me to institute a series of experiments to ascertain the precise mode of action of Lime. With this view seeds of wheat, and of other plants, were germinated upon cotton in glasses of water, -and when of sufficient size, were transferred, half of them, to glasses containing pure water, the other half to glasses containing water in which Lime in its different forms had been dissolved. From these experiments, it appeared that Lime in any other form than that of a neutral salt, rather retarded than promoted the growth of plants. This result seemed to account for the uniformly beneficial effect of Lime in those countries where it exists as a natural ingredient of the soil, and the question now presented itself, why should its action be so different upon clay and sandy soils when artificially applied?

While reflecting upon the subject, it occurred to me, that the difference might safely be referred, in the first place, to the entire change of properties occasioned by the process ducible from the admitted chemical data inof burning; old combinations being thus bro- volved.

the second place, to the opposite chemical relations of these soils inviting a favourable direction of these new affinities. Thus, clay is known to exhibit a slight alkaline reaction, and hence it may be reasonably inferred, that in these soils new affinities of the Lime will be expended entirely upon the decomposing organic remains; and so long as this process continues, there must necessarily be a conflict between the vital powers of the plant, and the chemical action of Lime, both contending for the same element-carbonic acid; nor will this contest cease until the Lime has returned back to its natural, or original state,-that of a neutral salt. In the instance which has been mentioned of the application of 30 bushels to an acre of clay soil, it would seem to be a fair inference that the unfavourable direction of the new affinities continued for a period of six years.

On the other hand, silex, which is the base of sandy soils, exhibits an acid reaction, and hence it may be supposed that in these soils the new affinities will be, to a considerable extent at least, diverted from the organic matters, and invited to the silex or silica acid,-thus forming a salt of lime which is perhaps more generally useful than any other. Of this fact, the old walls of buildings furnish a striking illustration.\*

Influenced by the foregoing views, it has been my practice to sow Lime upon the wheat field at the rate of six or eight bushels only per acre, the aim being to secure what I term its physiological in contradistinction to its chemical action, and I am satisfied it is the best mode on soils of which the predominant ingredient is clay. Thus applied, the effect is generally soon visible in the improved colour of the plants, and a permanently healthful green will always insure a yield commensurate with the fertility of the land. The remote effects are recognized in the gradual diminution

Becoming infected with the guano fever, my experiments were suspended, much now to my regret. They have, however, been again resumed, and at a future time I may perhaps be able to report progress.

of the sorrel and running brier, and a corres-

ponding increase of the clover family.

In regard to sandy soils, my endeavour would be to secure both its physiological and chemical action, and for this purpose, should think the application of fifteen or twenty bushels per acre would be an ample dressing for a rotation of five or six years. It is well known that plants can take up nothing except in the form of solution, and we have abundant evidence going to show, that the effects of fifty or one hundred bushels of Lime applied to an

<sup>\*</sup> Such, at least, seems to be the conclusion de-

acre of land have been distinctly visible for an [Herd-books. Another reason for this is, that equal number of years. Hence it would appear that the quantity of rain which falls upon an acre of land annually, is not adequate to dissolve more than a bushel or two of this substance. If more were dissolved, plants would certainly take up a larger quantity, and the effects would necessarily be less permanent.

I have thus indicated the general principles which have guided me in the use of Lime, and if they shall contribute in any degree to your

benefit, I shall be truly gratified.

Very truly your friend.

Ingleside, Goochland, April 13th, 1858.

We are indebted to the courtesy of Mr. F. G. Ruffin, the former Editor of this paper, for the communication above, which would have appeared earlier in our columns, but for the fact of its having been accidentally overlooked .- EDITOR.

#### CIRCULAR.

BLACK ROCK, N. Y., Sept. 1858.

Editor Southern Planter:

Dear Sir-The approbation with which the previous volumes of the American Herd-Book have been received by the Short Horn breeders of this country, together with the large contribution of pedigrees to their pages, and the solicitations of many breeders to have a fourth volume in preparation, have induced me to give this notice, that sufficient time may be given for the full examination which is required by every Short Horn breeder to properly arrange their pedigrees. Since the compilation of the last volume, hundreds of young animals have been produced, and new importations made from abroad; and by the time the next volume can be ready for the press, a further natural increase to our existing herds will be added. I therefore give you this notice, that in case you choose to record your pedigrees, you can have ample time to do so. I ask your attention to the following particulars:

1st .- All pedigrees must be sent in previous to the first day of December, 1858, to allow me time to compile them, and issue the book by

May 1, 1859.

2d.—Every pedigree must be made out at full length, after the manner of those in the volumes of the American Herd Book, as I can not encounter the labor and responsibility of making out full pedigrees from short notes, hints and memorandums. The imperfect condition of many private records required me to do that labor for my previous volumes, which it is now unnecessary to repeat, with such extensive authorities as those volumes before you only on one side of the paper. Write legibly, will afford. I can not, therefore, accept such and with perfect distinctness, all proper names, imperfect papers, only in cases where your ani- as without such writing many names can only mals or their ancestors have not been previous- be guessed at, and important mistakes may

every breeder ought to be supposed to understand the lineage of his stock better than a stranger, and consequently he can give their pedigrees with greater accuracy.

3d .- Let every individual pedigree be complete in itself, like those in the published Herd Books. State by whom the animal was bred, (if you wish that fact known;) the date (by month and year) of its birth; the name and Post Office, (County and State;) residence of its present owner; its sex, (this may merely say "Bull" or "Cow," in parentheses, by the side of the animal's name;) the color, whether white, red, red and white, red roan, light roan, or roan, simply, without qualification. roans, where white is the prevailing color, they are light roans; where red prevails over the white, they are red roans. By referring to the past volumes of the Herd-book, you cannot mistake the mode of description, or the tabling the produce of the cows. Do not send me printed pedigrees from newspapers, hand-bills, or catalogues, &c., unless they are in Herdbook form, and complete; nor when they are printed on both sides of the paper, as, if so, they must be copied by me for the printers. The names of bulls occurring as sires in the pedigrees, may be referred to by their numbers, when recorded in the Herd-books, either English or American. When such bulls are not recorded, let their pedigrees be written and referred to distinctly under the pedigree to which he is a party. Any unrecorded and unnumbered bull referred to in a pedigree must also be numbered and recorded to properly elucidate such pedigree, and a charge of fifty cents will be made for such bull or bulls. In cases where uncommon labor is necessary for me to find out the pedigree, an additional charge of fifty cents to a dollar each will be made, of which the owner of the animal will be notified

at the time. 4th.—Every animal presented for record must be well-bred; and where evidence of the fact cannot be traced to animals recorded in an in existing Herd-Book, documentary evidence must be furnished to sustain the fact that they are true Short Horns, and are descended from well authenticated Herd-Book animals.

5th.-Fifty cents will be charged for each animal recorded in a distinct pedigree by name, excepting the animals named in the tables of produce of recorded cows. The record fee, in current money at your place, to be remitted when the pedigrees are sent to me. In all cases where a pedigree, for insufficiency, cannot be recorded, such pedigree will be sent

ly recorded, either in the English or American occur. Let your lines be quite half an inch

a space of at least two inches blank paper. five hundred or a thousand dollars. When pedigrees are written on both sides of the paper, they will be immediately returned, as one of them must, in all cases, be copied in order

to print them.

7th.—If any extraordinary quality of milking, in accurate weights or measures, and times, belong to your cows, or of dead weights of carcases in slaughtered recorded animals, have been made, they may be noticed; as we claim that the Short Horns are the greatest milkers, and the heaviest beef, of any neat cattle whatever, and such instances carry proof of these facts to the public.

8th.—If there have been any errors or omissions in the pedigrees of your animals already recorded, by my fault, please correct them and send them to me, and I will rectify them in proper order in the fourth volume, by name

and reference, without charge.

9th.—I will print any number of well-drawn, accurate portraits of animals, for the fourth volume, at five dollars each for the whole edition of the book; the portraits and cuts to be furnished by the owners. This will be done on the best of fine tinted paper. I can not print portraits without charge, as the expense is too heavy an outlay for me, and the main benefit accrues to the proprietors of such animals. In this relation, I am authorized, by Mr. John R. Page, a good artist, whose address is Sennett, Cayuga Co., N. Y., to state that he will proceed to take such portraits, whenever a sufficient number can be furnished to justify it, and that he will superintend the engraving of them by competent workmen. Many portraits in the second and third volumes are samples of his execution. All persons who contemplate giving portraits of their cattle, should lose no time in obtaining them at once, that there may be ample time to have them properly engraved.

10th.—The price of the book to contributors

and subscribers, will be the same as the lastfive dollars a copy-payable on ordering it for delivery. The work to be the same in style and

material as the third volume.

11th .- If you have sold unrecorded animals to any breeders whose names are not in the third volume, I will thank you to send me their names, that I may send them a copy of this circular, as it is of advantage to you to let animals of your breeding, now in other hands, be recorded and known to the public.

12th.—I suggest that even in cases where you record by name the produce of your cows, it is still better to give all such produce a distinct record of their own. They become thus more conspicuous, as such produce merely recorded with the cow is not much looked after by inquirers,-the chief advantage in the produce tables being to show that the cow, whose progeny is so recorded, is a successful breeder. merly, and perhaps even now, in Europe. The This separate record will add an item to the domestic horse, itself is made use of as alimenexpense, but it is a trifle compared with the tary as well as auxiliary-in some cases alto-

apart, and between each pedigree let there be value of an animal worth from one hundred to me at Black Rock, N. Y.

Respectfully yours, LEWIS F. ALLEN, Editor American Herd Book.

#### Uses of a Dead Horse.

Firstly, we have the hair, which may weigh about  $1\frac{1}{2}$  lbs., and which sells for 8d. to 1s. Horse-hair, we know, is applied to many purposes; it is made into hair-cloth for seatings. colored hair damasks, bags for crushing seed for the use of the oil-crusher, cider-makers and others. A consumption of 800 tons of horsehair a year, of home and foreign production, valued at about £80,000, shows the value of this one item.

Next we have the hide, weighing-say 30 lbs., and worth possibly 8s., for converting, when split, into the finest Cordova leather; or, in its full thickness, for covering the large board-room tables of officers, &c.

The tendons weigh probably 6 lbs., and are converted, like other animal tissues, into fine glue, or gelatine.

The flesh will weigh about 224 lbs. boiled. and may be used as meat for men, dogs, poultry, &c.

Smile not, gentle reader, at the banquet offered-of viands which are just now in high repute on the continent. A society of economists, naturalists and hardy gournands in Paris, aim at the introduction of horse-flesh in the category of butcher's meat. They set the example themselves, and the example is spread-It is argued that the horse ought to contribute to the nourishment of the human race, as well as the ox, the sheep, and the pig. That it does so already in our own metropolis to a great extent, in the shape of nominal smoked "ox-tongues" from Russia, and chopped so-called "beef" sausage meat in Westminster, Whitechapel, and other suburban lo-calities. But the penchant for roast and boiled horse-flesh has found adherents even here, and our esteemed contemporary, the "Journal of Agriculture," of Edinburgh, has come out strong in a recent number in its favor.

M. St. Hilaire, the champion of this new addition to our food resources, reasons in this

"Horse-flesh has long been regarded as of a sweetish, disagreeable taste, very tough, and not to be ea en without difficulty. So many different facts are opposed to this prejudice, that it is impossible not to recognise its slight foundation. The free or wild horse is hunted as game in all parts of the world where it exists-Asia, Africa and America-and forgether alimentary—in Africa, America, Asia, fats, while the entrails and remnants are given

and some parts of Europe.

"Its flesh is relished by people the most different in their manner of life, and of race the most diverse-negro, Mongol, Malay, American, Caucasian. It was much esteemed up to the eighteenth century among the ancestors of some of the greatest nations of western Europe, who had it in general use, and gave it up with regret. Soldiers to whom it had been served out, and people in towns who have bought it in markets, have frequently taken it for beef. Still more often, and indeed habitually, it has been sold in resturants, even in the best, as venison, and without the customers even suspecting the fraud or complain-

ing of it.
"And further, if horse-flesh has been often accepted as good under a false name, it has also been pronounced good by those who, to judge of its qualities, have submitted it to careful experiment, and by all who have tasted it in proper condition—that it is, when taken from a sound and rested horse, and kept sufficiently long. It is then excellent roasted; and if it be not so acceptable as bouilli, it is precisely because it furnishes one of the best soups--perhaps the best that is known. good also, as experiments prove, made by myself, as well as others, when taken from old horses, not fattened, whose age was sixteen, nineteen, twenty, and even twenty-three years-animals thought to be worth no more than a few francs beyond the value of their skin. This is a capital fact, since it shows the possibility of utilizing a second time, for their flesh, horses which have already been utilized up to old age for the strength; and consequently, of obtaining a further and almost gratuitous profit at the end of their life, after they had well nigh paid the cost of their rearing and keep by their labor."

So much for the great champion of horse-

flesh.

Having disposed of the flesh, we come next to the blood, heart and tongue, weighing about 60 lbs. The former is used, like the blood of other animals, as a decolorizer, for manure, and for making, with other animal substances, the well known salt, prussiate potash. The disposal of the heart and tongue we will say nothing about, as there is somewhat of a mystery resting upon their appropriation.

The intestines of the horse, weighing about 80 lbs., are converted to several uses. When cleaned, they serve for covering bolonies and sausages; or they are twisted into bands or strings for bowing cotton, or for other purposes.

There is seldom much fat to be got from the horse: probably about 20 lbs. may be obtained; and this is used, after being distilled. for lamps. We import horse grease largely soap and candle-makers in common with other Animal Matter.

to hogs, to make food for home consumptionat least this is so in the United States, where the porcine race are less daintily fed than our

own store-fed pigs.

The bones come next; and these weigh, say about 160 lbs., and are sold at the rate of 4s. 6d. per cwt., either to convert into knifehandles, or for making phosphorus, and superphosphate of lime. They will not do for animal charcoal, because horses being usually killed when aged, the bones contain too great a proportion of phosphate of lime, and too little animal matter. Ground into dust, or crushed into half-inch bone, they make excellent manure; while other special manures for turnips, &c., are made from the blood, flesh and bones combined.

The Kensington Museum catalogue, compiled by Mr. P. L. Simmonds, lets us into the secret of cleaning the bones and divesting them of putrid flesh, &c., so as fit to them for use in manufactures. To take off the flesh by hand is a tedious and difficult operation. An ingenious Frenchman solved the difficulty. He noticed that rats were very fond of horse flesh; so are fowls-other arguments in favor of M. St. Hilaire's reasoning of the wholesomeness of the food. Our Frenchman advised the authorities to colonize the dead horse-pound with rats. This common pound is an enclosed area of about ten acres, surrounded by a stone wall, to which all carcases, &c., are taken, and among the rest the 400 horses which die or are killed in a week in Paris. The catacombs furnished rats by thousands; and now a dead horse put in over night is picked beautifully clean by morning, and the bones are ready for the bonedealer. A grand battle is periodically made, to keep under the rats, and they are utilized by making the skins into gloves, and possibly their flesh into ragouts or pies. We have nearly done with the economic uses of the worn-out hack; there remain but his pedal extremities to deal with. The hoofs, weighing about 8 lbs., are worth 8s. to 10s. per cwt. for gelatine, or for making prussiates. They are not adapted to pressing into the so-called horn buttons, which are made of ox-hoofs, but possibly may turn up in the shape of a snuff-box, capped with silver. The shoes will work up into shoes again, or sell for old iron; and the nails are much esteemed for making gun bar-

We have now used up our "old horse," and this is merely the example of many other animals whose carcases are turned or might be turned to various useful purposes. Such a history points a moral that nothing should be despised, for out of many waste substances money is to be made, and the large profits of scavengers, knuckers, and the dust contractor, from the River Plate, but we get better at are evidences of the utilization of offal and home. The grease is also worked up by the sweepings .- Lecture of Dr. Playfair on Refuse

#### Premium Farm.

We have already stated that Mr. Robert J. Swan, of Rose Hill, near Geneva, New York, received the first premium of the New York State Agricultural Society, at its last meeting, for the best cultivated grain farm. When the Report of the Visiting Committee appears, we shall probably, for the benefit of our readers, present some of its facts in our columns. have several times visited this farm, both before and since it came into the posses sion of Mr. Swan. We had the pleasure of going over it last season, while the hay crop was being gathered, and just before the splendid wheat crop was harvested,some notes of our visit being published in our issue for August 1st, last. But we see by the May No. of the Genesee Farmer, that the editor of that paper had lately visited Mr. Swan's farm, and he gives an interesting account of what he saw there. He mentions a striking fact in regard to Mr. S.'s improvement in wheat-culture, which we do not remember to have noticed ourselves, viz: that the wheat crop the year of his purchase of the farm, 1851, only averaged five bushels to the acre.-Mr. S. underdrained and summer-fallowed six acres that year, which was all that he put to wheat, and it vielded over thirtythree bushels to the acre-more in the aggregate than he obtained from forty acres the previous year.

Mr. Swan saw that drainage was the first requisite—the soil being mostly a pretty compact loam, baking hard under drouth—and he laid, the first year, 16,000 tiles, and has gone on till in the language of our contemporary, "there is not a wet spot on the farm," and that there are now over sixty-one miles of underdrains, on the 344 acres comprising the estate, or an average of sixty-three rods to the acre.

We wish to call particular attention to the cost of Mr. Swan's drains, because when the subject of drainage was under discussion at one of the agricultural meetings at the State House, last winter, most of the speakers estimated the expense at from fifty to seventy-five cents a rod—the latter being the least cost of some drains of three and a half to four feet deep, some of them having cost considerably more. meeting, that, as this heavy expense might lishes as soon as a cloud appears.

be considered a great obstacle to drainage, it was proper to mention the fact, that drainage had been done effectually at a much cheaper rate-even in some instances as low as twenty-eight cents a rod .--We alluded to Mr. Swan's operations, but Our cotempospoke only from memory. rary before mentioned states, that the average cost of Mr. Swan's drainage has been twenty-eight and a half cents per rod, and that the cost per acre was about \$19; that on the higher and wetter portions of the farm the drains are twentyseven feet apart, and from two and a half to three feet deep; that they were dug by contract at twelve and a half cents a rod; that the cost of laying the tiles and filling the drains with ploughs was three cents per rod; the average cost of tiles and cartage, thirteen cents per rod.

As before remarked, the nature of the soil of this farm was such that drainage was necessary in the outset, and the result has been entirely satisfactory. But our contemporary well remarks, that "While underdraining has formed the basis of Mr. Swan's improvements, it would be erroneous to ascribe his splendid crops to underdraining alone. The land is thoroughly cultivated by means of summer-fallows and hoed crops. It is not over-cropped with cereals; clover is sown with an unsparing hand; about nine tons of plaster are sown each year on the pastures and meadows; nearly everything is consumed on the farm except wheat, and, in addition to this, a considerable quantity of oilcake is fed to cattle and sheep. In this way a great quantity of manure is made—and it is good manure-not rotten straw."

It is further stated Mr. Swan had in his stables and yards, eighty Leicester sheep, which would average 140 lbs. live weight, or 80 pounds dressed weight. They were fatted on good clover hay and eighteen ounces of oil-cake each per day. were also eight steers, two years old this spring, whose average live weight was 1,075 pounds each. They had each been fed one quart of ground or crushed oilcake per day since last fall. The cost of the oil-cake was \$27 per ton.—Boston

Cultivator.

A false friend is like a shadow on a We took occasion to state at the same dial; it appears in clear weather, but van-

#### Human Life.

"In the morning it flourisheth, and groweth up; in the evening it is cut down and withereth."—Ps. xc., 6.

I walked the fields of morning's prime,
The grass was ripe for mowing;
The skylark sang his matin chime,
And all was brightly glowing.

"And thus," I cried, "the ardent boy, His pulse of rapture beating, Deems life's inheritance is joy— The future proudly greeting."

I wandered forth at noon:—Alas!
On earth's maternal bosom
The scythe had left the withering grass,
And stretched the fading blossom.

And thus, I thought with many a sigh,
The hopes we fondly cherish,
Like flowers which blossom but to die,
Seem only born to perish.

Once more, at eve, abroad I strayed,
Through lonely hay-fields musing,
While every breeze that round me played,
Rich fragrance was diffusing.

The perfumed air, the hush of eve,
To purer hopes appealing,
O'er thoughts perchance too prone to grieve
Scattered the balm of healing.

For thus "the actions of the just,"
When memory hath enshrined them,
E'en from the dark and silent dust,
Their odor leave behind them.

| Barton's Household Verses.

## Live in Love; 'Tis Pleasant Living.

Be not harsh and unforgiving, Live in love; 'tis pleasant living. If an angry man should meet thee, And assail thee indiscreetly, Turn not 'hou again and rend him, Lest thou needlessly offend him; Shew him love hath been thy teacher, Kindness is a potent Preacher; Gentleness is e'er forgiving,— Live in love; 'tis pleasant living.

Why be angry with each other?
Man was made to love his brother:
Kindness is a human duty,
Meckness a celestial beauty.
Words of kindness spoke in season
Have a weight with men of reason;
Don't be others follies blaming,
And their little failings naming;
Charity's a cure for railing,
Suffers much—is all prevailing.
Courage, then, and be forgiving,
Live in love; 'tis pleasant living.

[British Workman.

#### Ye can Conquer, if ye will.

Rugged toiler—son of labor—
Stoutly battling every day
For existence—O, my brother,
Thou shalt triumph in the fray.
On life's changeful scene of action,
Though defeat may oft appear,
Thou shalt win the victor's laurels,
If thou wilt but persevere.

Though thou art obscure and lowly,
Ye may reach the wished for goal,
Grasp the prizes, wealth and station,
If thou hast a dauntless soul;
If thou hast a resolution
That misfortune cannot shake;
One on which the angry surges

An impression fail to make.

Art thou sneered at and derided
By the self-styled lofty born?
Heed you not the fool's contumely,
Or the weak mind's harmless scorn.
Art thou friendless-friends will gather,
As do courtiers, king around,
When thou hast achieved distinction,
When thou hast position found.

Strong in faith, let naught repel thee,
Thou shalt in the end prevail;
In life's trials, and its battles,
None but dastard cowards fail;
Noble nature prove ascendant,
In earth's mighty contest rang,
To renown, from dark oblivion,
Robed in glory up they sprang.

What if years of fierce endeavor
Have been spent by thee in vain?
What if thou hast met disaster?
Up and take the field again.
Wreck and ruin all about thee,
Give not up, but struggle still;

Give not up, but struggle still;
Stubborn courage is resistless,
Ye can conquer if ye will.

[Miner's Rural American.

## "By-and-By."

There's a little mischief-making Elfin, who is ever nigh, Thwarting every undertaking, And his name is By-and-By.

What we ought to do this minute, "Will be better done," he'll cry, "If to-morrow we begin it;"
"Put it off!" says By-and-By.

Those who heed his treacherous wooing, Will his faithless guidance rue; What we always put off doing, Clearly we shall never do.

We shall reach what we endeavor, If on Now we more rely; But unto the realms of Never, Leads the pilot By-and-By.

## INDEX.

A.			
	GE.	Bots in Horses,	PAGE. 699
Agricultural Department of the General	29	Brandy, Origin of	699
Government,	72	Bless God for Rain,	704
Adoption of a Dog by a Mare, &c.,  A Bill—Donating Public Lands, &c.,	104	"By-and-By,"	762
	127		102
	164	C.	
	238	Col. Cocke's Proprosed Donation, Objec-	0
	281	tions to	3
	295	Cattle Dying from Eating Cornstalks, &c.,	7
	309	Cold House Grapery,	21
	316	Carrot Pie,	22
	362	Clear Steep Land,	23
		Cheap Board Fence,	33
	432	Cure for Chapped Hands,	42
Amateur's View on Propagation of New	447	Composition of Soils Adapted to Clover,	46
	110	Cape Jessamine,	61
	448	Culture of Domestic Animals,	71
	449	California Soap,	87
		Composition of Cake Produced by Press-	
	485	ing Distillery Dregs,	93
	492	Clover Seed,	105
• '	492	Corn Crop,	106
	498	Chinese Sugar Cane,	129
	513	Canvass-Back Ducks,	132
· ·	609	Clover, Frozen Out	134
	612	Curious Question,	136
	742	Corn Crop of the West, Damage to the .	137
Agricultural Society, Virginia State,		Coal Ashes,	147
,	743	Cure of Itch in Half an Hour,	160
В.		Chemist in the Laundry Washing, .	161
Breeding, In-and-In,	19	Corn, Largest Yield of on Record,	184
Beauty an Element of Value,	59	Culture of Apple Trees,	199
Butter, To Sweeten Rancid	70	Clear the Track for Reapers and Mowers,	201
Brick Laying,	98	Cultivation of Pea-Nuts,	208
	139	Corn Planting,	209
	181	Culture of Sugar Cane,	209
	167	Chinese Sugar Cane a Humbug,	223
· ·	270	Cleaning Saddles, &c.,	225
	406	Chinese Sugar Cane,	239
	407	Copperas as a Deodorizer,	270
	481	Carrying Weights,	286
	484	Cure for Garget,	286
	502	Cultivation of Sun Flower,	. 290
Bones,	- 1	Chinch Bug, Two Remedies,	294
	576	" " Proposed Remedies, .	294
		Cut Worms,	295
	609	Cooling Rooms,	307
Black Tongue,	618	Corn, Great Yield in South Carolina,	307

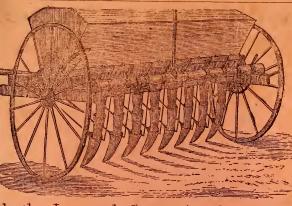
Corn, Report on	307	Dairy Management,	31
Cut Worms,	309	Does Guano Stimulate the Soil?	175
Cabbages, To Make	319		260
Cultivating Plants while Dew is on,	320	Dairy Management,	267
Cure for Disentery,	328	Disease of White Oak and Apple Trees,	435
Cheap Butter Cooler,	333		442
Cracked Heels,	333	Dwarf Pear Culture,	508
Causes of Bad Wheat Return, 1856, .	350	Do Potatoes Mix in the Hill,	522
Carbonic Acid in the Soil,	357	Ditch Banks,	621
Celery Culture,	361	Deep Cultivation,	662
Cultivation of Corn Crop,	381		736
Crops, Seasons for	381	E.	
Court Day at Paris, Kentucky,	405		0.0
Cabbage Lice, How shall we Get Rid of	435	Experiments in Feeding Farm Horses, "Yield of Flour from Wheat,	20
	446		20
Credits and Failures,	5, 590	Exclusive Use of Guano,	36
Capacity of Soil of This Vicinity, .	477	Essay on Rearing, Management, &c., of	= 0
Comparative Value of Roots for Cows, .	492	Horses,	76
Compost, Hog Yard	496	Export of Bread Stuffs,	112
Connection Between Moral and Agricultu-		Extraordinary Tobacco Bed,	144
ral Improvement, &c.,	504	Excusatory, , ,	168
Crops and Seasons,	510	Enclosures, Important Amendment to	100
Coffee,	517	Law of	168
Corn Suckeys Among	518	Expensive Manure,	179
Corn, Suckers Among	520	Exports of U. S.,	222
Cotton Cultivation in Africa,	524	Experiments—Guano, Unleached Aslies,	050
Common Errors of Farmers,	562	&c.,	258
Cows, New Way to Bring Up	592	Experience in Surface Application of Ma-	0.65
Cider from Sorgum,	592	nure,	263 340
Card to Members of State Agricultural		Earth Worms,	437
Society,	593	English Farming,	439
Corn, Experiments in Hybridizing .	599	" of Feeding Roots,	442
Chemistry and its Study,	603		4.14
Clover as a Fertilizer,	617	Exaggeration of Amounts of Growing	477.6
Calico Printing in the U.S.,	626	Crops, ,	475
Cotton Planters, Item for	627	Eggs, The Sex of	496
Corn, Selecting Seed 639	9, 673	Eminent Men, The Lives of Early Ripening Wheat,	554
Comparative Economy of Spring and Fall			555
Manuring,	649	Exports of Wheat to England,	558
Corn Shucking,	666	Experiments in Pulling Fodder,	567
Candles,	672	Explanatory,	567
Cows, Winter Feed for	691	Epidemic Amongst Cattle,	
Centre Draught,	698	Embellishments of a Country Home,	703
Children,	704	Passager Height of	741
Cholera, Hog	730	1	741
Coal Trade, The Anthracite	734	F.	
Card, A	738	Fattening Animals,	25
Chinese, The	742	·	40
Club, Nottoway	755		52
Circular,	758		56
Conquer, Ye can, &c.,	762	The state of the s	78
D.		71	7, 109
		Flight of Birds,	159
Drilling of Pea Crop—Both a Benefit and		Fencing,	200
Necessity,	17	Farm House, Premium Essay on	226

Feather Beds, Making and Preserving		270	How to Make Hens Lay in Winter,		75
Food Prospects,		271	How Can Setting Hens be Taught,		
Fish Fertilizer, New		352	&c.,		76
Fruit Trees, Summer Management of		363	Harrowing Wheat,		107
Field Pea Fertilizer,		371	How Does Plaster of Paris Act, .		120
Fleas, Remedy for		410	Height of Colts,		138
Functions of the Leaves and Roots	of		Hog Cholera,	286,	142
Plants,		415	How to Raise Turkeys,		143
Farmer, The		558	Harrowing Wheat,		184
Fruit Trees,		605	Hedges, Osage Orange		185
Fodder, Reasons for Pulling, .		613	How to Treat Peach Trees, .		191
Fish Manure, Composition of .		622	How to Make a Sound Shingle Roof,		169
Food, Economy of		624	Hogs, Raising	261,	167
Fat vs. Milk and Stamina, .		627	Hogs, Large		176
Farmer's Guide,		640	Harvester and Stacker,		214
Food, Cooking, for Hogs, &c., .		651	Hop Growing, New Method of .		216
Falling Fruit,		702	Hogs, Mr. Franklin Minor's 437,	433,	264
Farmer, Governor Bankson the .		741	Hogs Fed on Bitter "Mast," .		264
Flowers, To Preserve Cut		751	House, Cleaning		266
Fairs, The		754	Horses, To Break Vicious		285
Farm, Premium		761	Horses Running a Mile a Minute,		285
			Hay Caps,		296
G.			Hay Caps,		297
Gearing Teams According to Principle,		43	Harness, To Save		310
Gas, Lime, Use of		68	Horse, Preventing, Catching Rein Und	der	
Graining and Grazing Cattle,	166,		his Tail,		310
Great Trees,		144	Hogs, Feeding	,	335
Geldings versus Brood Mares, .		165	Hæmaturia in Cattle,	Ĺ	337
Good Gate, A		177	Hogs, Good vs. Bad Breeds .		338
Gout in Fowls,		211	Horse, The Spanish		339
Glucose and Syrup,		225	Horse, Medium Sized		339
Gooseberry Mildew,		238	Hay, Curing	347,	
Gearing Horses, in Reply to P., .		259	Horse Rake, The Time Test .		372
Guano Trade,		284	How to Kill Dogwood Trees, .		380
Gait of the Horse,		284	Horse, The, and How to Use Him		383
Grass, Proper Time of Cutting, .		348	Horse, The, and How Concluded .		401
<b>a</b> .	•	399	Horse, Saddle		402
Grape Culture,	516	401	Horse, Fatal Disease in		405
G G	010,		Hay, Best Mode of Curing .		414
Guano, Simple Test for	•		Honey Bee and Its Products,		463
" Stimulating Properties of .	•	473	How to Manage a Rearing Horse,		491
" Experiments with .	•	474	Hog Cholera,		617
· Manipulated	•	500	Hogs vs. Dogs,		627
Green Crops for Manurc,	•	520	Horse, Arabian		667
	•	526	Hog Killing,		687
Grape Vine and its Culture,		605	Hints on Farm Improvement, .		700
Garden, Vegetable	•	608	Hints to Farmers,		701
Guinea Fowl,	•	636	Human Mind, The Wonderful Nature of		722
God's Laws Illustrated by Science,		734	Human Food, Fat Pork as .		728
Garden, A Chinese Guano, On the Simulating Properties of	•	737	Horse, Mr. Everett's Remarks on .		731
		101	Humbuggery the Order of the Day,		736
Н.			Hill, Manuring in the		740
Horn Dust,		16	Hope—Work—Wait,		742
Hot Beds, How Made			Hog Killing and Making Bacon,		756
How Much Corn or Hav is Required. 8	čc.,		Horse, Dead, Uses of a		759

Molasses, Sorghum	720	Mulching and Stirring the Soil,	6
I.		Mares vs. Geldings,	91
		Manure Spreader Wanted,	10
Interesting Chemical Discovery,	29	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	115
Imposition Upon Farmers,	81	and	15
Increased Fertility of Land,	141	Traditional to III a trainers,	21
Indian Corn Experiments,	302	Manures, Best Mode of Applying .	23
Is Hay Necessary for Stock,	347	Manures, Artificial	240
Iron, Mountain	353	Manuring Apple Trees,	26:
Ingall's Cow,	406	Musk Melon,	320
Improvement in the Threshing Machine,	451	Milk, To Prevent Cows from Losing .	38
Incrustation of Cereal and Other Seeds, .	453	McCormick's Reaper,	393
Is Agriculture Declining in U. S,.	478	Milk, Quantity of, to Pound of Butter .	40
Is Chinese Sugar Cane Poisonous to		Musquitoes, Antidote to	410
Horses,	480	Moths in Carpets,	445
Impropriety of Breaking Roots, &c., .	569	Manures, Vegetable and Animal	49
Ink, Marking, for Linen	598		, 599
Influence of Soil and Climate on Ani-		Manures, Economy, &c., of 583, 614, 641	, 70
mals,	602	Music of Labor,	640
Innocence, A Plea for	715	Manuring, Fall or Spring	65
J.		Mules,	692
T D	33	N.	
Japan Pea,	90	Nutrition of Plants,	9.
K.		Naguage and Catton	34 76
Kitchen Garden,	123	New Method of Governing Vicious Ani-	, (
L			83
Long Fence,	22	Morth Devon, the Proper Cattle for the	0.
Lawn, The	63		83
Lime Applied in Minimum Quantities, .	105		89
Lime Applied in Small Quantity to Red		New Plan for Ploughing Flat Land,	94
Lands of Madison County,	131	Nutrition of Plants,	193
Lime as a Fertilizer,	181		10
Loves of the Birds, The	158		231
Lameness in Horses,	213		315
Letter from Japhet,	215	New York in the Light of an Experimen-	010
Locust Trees, How to Raise	218		514
Lard Candle, How to Make	236		737
Laying Farm Yard Dung on Clay Fallow,	200		
&c	386	О.	
Long Island Prize Farm,	487	Ornithology,	65
Labor a Duty,	497	On Cutting off Large Limbs, of Fruit	
Life, The of a Farmer	560	Trees,	88
Lime,	589	Ornithological Sketches,	105
Lime, How to Apply	604	Orchard Grass, 180	, 106
Lard Cured with Soda,	688	Origin of Various Plants,	122
Library, A Farmer's	693	Ornithological Sketches.—No. 2 321	, 145
Lime, Action of	757		, 202
Life, Human	762	Oats and Other Exhausters of the Soil, .	207
Love, Live in, &c.,	762	Oats, Seed	207
M.		Ornamental Gardening,	311
		Onion, Nutritious Qualities of	362
Mcrinos at Universal Exhibition, 1857, .	7	Ox-Breeze Fly,	408
Mechanism of Steam Culture,	10		557
Multum in Parvo,	22	Overseer's, All About	411
Mechanical Value of Bones,	24	Overseer's, Short Letters to	413

Original Domestic Receipts,	479	Progressive Agriculture,	703
Orchard Grass,	596	Phosphates, occurrence in some of the ter-	
Origin of the Stocking Frame,	606	tiary deposits of Virgina,	712
Ornithological,		Potatoes, Sweet, how to keep,	721
Oil From a New Source,	671	Profession, Agriculture as a,	751
The state of the s	1	Perseverance,	752
P.		R.	
Past and Present,	23	Recipe for Making Soap,	30
Potato always uncertain,	28	Romain's Steam Cultivator,	40
Profits of Fruit Culture at the South, .	42	Roofs and Roofing, Rabbits, to keep from Barking Trees,	73 76
Produce on hand,	69	D 11	111
Prospects for Produce,	69	Rhododendron Maximum,	144
Present and Past of Implements of Agri-		Reply to Fertilizers for Fruit Trees, -	182
culture,	91	Report to Farmers' Assembly,	170
Projet for the Executive Committee, &c.	113	Rhubarb, its culture and uses, Reapers and Mowers, clear the track for,	188 201
Poultry, Vermin on	134	Reply to Roofs and Roofing,	201
Paper Money,	135	Randall Grass,	239
Papers Communicated by Nottoway Club,	148	Reply to Yardley Taylor on Soil Analysis,	258
Do. No. Carolina Agricultural Society,	161	Rhodes' Super Phosphate Lime, Reflections on Fruit Crop present year -	$\frac{264}{317}$
Proper mode of Gearing Horses,	165	Root Pruning and Manuring,	318
Pickles for Market,	190	Robin, Its food and habits,	327
Poultry, In and In Breeding, &c.,	212	Renovating Wearing apparel,	331
Prices,	221	Romaine's Steam Cultivator,	342
Peabody's Prolific Corn,	252	Road Scraper, Diagonal, Root Crops for Stock, Remedy for Striped Bug,	$\frac{346}{354}$
Par of Exchange, the,	280	Remedy for Striped Bug,	357
Pickled Fodder,	282	Repulsion of yellow Bug from Pumpkin,	360
Pure Air,	283	Rezoil,	366
Paint, A cheap,	283	Recapers, Cautions about using, Reply to X. of the Republican,	378
" Sulphurized Oil,	283	Rhodes' Super Phosphate of Lime,	434
Plantation Roads,	291	Rain,	441
Profits on Grazing Cattle,	302	Ruta Bagas, &c ,	488
Parker, Dr., Against the World,	307	Rust on Oats,	499
Pickles,	332	Rats, To destroy,	522 592
Produce of butter,	333	Rags,	598
Provisions, Prices,	357	Rain, Philosophy of,	605
Plugging Trees with Brimstone,	359	Royal Agricultural Society's Dinner at	200
Practical Hints to Amateurs,	358	Chester,	632
Potatoes Mealy all Summer,	362	S.	102
Peach Borer plastered up,	362		
D : CI		Southern Literary Messenger, Stock Breeding of any kind,	7
Phosphatic Manures for Wheat and Clover	367	Shall it always continue thus?	36 61
Wh. W. W		Shoeing Horses-Good plan of,	102
Potato Weavil,	409	Surface Manuring,	103
T luci		Southdown Sheep,	105
	417	Sub Soil, Ploughing in Clarke,	106
Pasture Lands,	515	Stock Breeders, to,	111
Preserving Fence Posts,	523	Seasonable Suggestions,	122
Plants and how they live,	547	Sheep Shearing Machine,	160
Preserving dried Fruit from Moths,	576	Do. Fine,	167 174
Pig, Seasonable Hints on,	600	Stock Running at Large and Fencing,	174
Propagation by Cuttings,	606	Shall Apple Trees be Manured,	178
Pedlar Hole and Corner Club,	513		182
Progression,	625	Strangles, Remedy for,	219
Profitable Forty Acre Farm,	625	Sassafras Clearing Land of	220 737
Plough, Premium Essay on,	655	Soapsuds for Currant Bushes,	239
Poultry, Winter Care of,	660	Suggestions About the Purchase of Reapers.	246

Salt, as a Preventive to Rot in Tobacco,	261	Tobacco Charcoal for Firing, .	565,	595
Spring Chickens,	269	Telegraph, At antic Time, Difference of The Teeth, Keeping Clean The Tongue of Poverty, Tomatoes, green, how to Pickle	- 40	635
Southdown Sheep 3'	77.293	Time, Difference of		636
Southdown Sheep 3' Seed, 3'	79-301	The Teeth, Keeping Clean .		702
Sowing reas	320	The Tongue of Poverty,		702
Smoke for Wounds on Animals,	339	Tomatoes, green, how to Pickle".	:	712
Soapsuds Effectual vs. Bed Bugs,		Tobacco,		717
Stacking Hay and Grain.	349	Table, a		723
Shaphards of the Pyrennes.	355	Tea,		.724
Stacking Hay and Grain, Shepherds of the Pyrennes, Sulphur for Insects,	359			124
Seed, Quick Vegetation of,	366			
Societies, Virginia State and Central Ag-	000	Utility of Birds and Snakes		336
	370			603
ricultural,	200	University of Va.	- :	639
Still Chopping the Roots,	380			699
Stone Fencing,	433		•	000
Soapsuds,	436			
Sheep, Culture of,	456			138
Stacking Hay and Grain,	478		•	332
Slaughter that Daily Sustains, the,	492	Voludiotorre	1	387
Salutatory,	497	Vumototion Possesses of to Design	FT	301
Soiling Cattle, Green Rye for,	498	transper for		004
Spayed Cows, Sun Flower, the, Striped Bugs, Strawberries, Chapter on, Sugar, Theory of High Prices,	509	tremes, &c.,	•	397
Sun Flower, the,	512	Vines. How to Protect from Bugs,		490
Striped Bugs	523	Vegetable Physiology,		538
Strawberries, Chapter on	527	Value of Agricultural Papers	•	568
Sugar, Theory of High Prices	536	Vegetables as Fertilizers, Volume, our Next	•	577
Swine, Paper on,	559	Volume, our Next		753
Soils, Difference in,	561	. W.		
Soil, the,	575			
Stock, Pernicious influence of Watery	010	Wood sold in Small Quantities, .		82
	597	Wire Fence, Washing,		87
Food, &c.		Washing,		
	1-671	Western Hog Trade,		102
Smut in Wheat, Remedy for,	611	Wood, Preserving by "Steeps."		110
Sheaf, the,	621	Wood, Preserving by "Steeps," . Window Gardening,	•	160
Seasons and Crops of Present Year,	627	Window Gardening,	•	211
Stock Feeding, Winter,	670	Wagon Body,		236
Stock Feeding, Winter,  "Evils of Over-Feeding, Soils, Physical Properties of, Sweet Potatoes, Sewing Machine, Snow Ball Pudding,	672	Watermelons Culture in Hanover		254
Soils, Physical Properties of,	674	Wood Chapter on		273
Sweet Potatoes,	694	Wool, Chapter on . Wool,		
Sewing Machine,	700	Wooding Chan Dhilanning C		276
Snow Ball Pudding,	701	Washing Sheep, Philosophy of .		278
Scatter the Germs of the Beautiful,	704	Wheat Prospect, Winter, Preparations for		310
Soap, a Hard and Durable,	736	Winter, Preparations for		328
Sociability,	740	Wheat Midge,	. :	341
Society, Virginia State Agricultural, Award		When Corn Grows,		357
of Premiums,	743	wille, Cultain,		366
Subscribers, in Arrears,		Wash your Fruit Trees,	. 8	368
	.01	Watering Plants,	. 3	369
т.		Wheat, White and Red,	. 3	393
Tea Cakes,	9	Watering Plants, Wheat, White and Red, Whortleberries, What is Silica? What England Eates from Abroad,	. 3	95
True Principles of Hitching Teams, .	44	What is Silica?	. 4	41
Thinning Forests,	70	What England Eates from Abroad,	. 4	91
Thinning Forests,	86	Wheat Market, Whitewash, First rate Wonders of Boiling Water, Words to Young Farmers, Wash Boards, War Against, Who would not be a Farmer.	. 5	01
Tomatoe Culture,	89	Whitewash, First rate	. 1 5	21
Tomatoe Culture,	121	Wonders of Boiling Water, .	. 5	24
Tobacco Analysis.	137	Words to Young Farmers.	. 5	73
Tribute to the Planter,	147	Wash Boards, War Against.	. 5	92
Trade in the Horns of Animals,	206	Who would not be a Farmer, .	5	99
Tonnatoes,		TIT . C		53
Threshing Machines, Steam Power,		Water—Its Importance in Vegetation,		
Twins, Free Martin's Enquiry,		Weavil in Seed Wheat,		53 63
				63
Too True,		Wheat Case		64
Transactions of N. Y. State Ag'l Soc'y,		Wheat Crop,		87
		Wheat Crop, Mr. Winston's .		19
Tobacco, Fine Sale of		Wine, the Preservation of .		33
Trees and Fruit Buds vs. Cold Water,		Wealth, the Best		35
Tobacco Exchange, . 467, 469, 471,		Wine, to make pure Apple .		35
Tuleyries Artesian Well, &c,		Wool and Woolens,		38
Tobacco Prizing,	519	Wife, Co-operation of the .	. 78	51



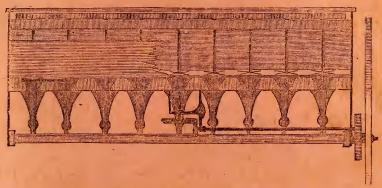
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