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M. MAGLEAN. EDITOR AND PROPRIETOR.

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From the couthern Agriculturist. What ought the Agricultural Convontion do? Being an Answer to a Lett r on the subject, addressed by one of the Dele-gates to the Editor of the Southern Agriculturist, and now published by request.

My DEAR SIR,-I cheerfully comply with your request in suggesting "what will or or ought to be the subjects upon which the Agricultural Convention, to be holden at Columbia in Novemeer next, should act?" doing so, I must premise that the suggestions are not wholly my own; but the result of frequent conversations had during the past summer with agricultural gentlemen throughout different portions of the State. Against nothing which I suggest can the objection of novelty be urged. Impressed with the belief that we are to learn and not to teach, I have merely presented what other States have done, and leave the wisdom of the plans to recommend themselves.

Never were our agriculturists better prepared for useful and concerted action For several years back, have I in my editorial relations with them recommended a General Convention, but not until the present have they received the recommendation with such almost entire unanimiry. They have now shaken off their slumber, inquiry is every where affort, and it is with a view of meeting the demand that I consent to your use of this letter, should it in your esteem merit

In its memorial, the Convention should recommend to the Legislature :--

First, The appointment of an Agricultural and Geological Surveyor of the State. The vast utility of such an officer to our agriculturists is best exemplified, when the duties he would be called upon to discharge are stated. He would travel through each district of the State in routine, and survey, 1st. It geographical state and circumstances.

Under this head, observations and remarks predicated of the observations of others, might be made as to the state of the climate throughout the year-its effects upon animal and vegetable life, and its suitableness to the successful cultivation and production of different staples. The soil minerals, and face of the district might be also considered : with a view of presenting to our planters those tests of the kind and character of their lands, which are far too expensive for individual accomplishment.

2d. State of Property. Under this head observations would be made as to the extent of plantations in each district, whether large or small; whether owned and cultivated by they be considered quacks, for wnom for resident or non-resident planters-by what tune and good circums ances have done kind of labor-whether by slave or freeand if by both, the relative productiveness perience. of each.

3d. Buildings or Rural Architecture. Observations might here be made as to the style of building in each district. Whether of the State To this school should be atbest suited to the nature of the climate, the materials for building, or the purposes for on which might be conducted different agriwhich such buildings are intended. Under this head an intelligent and observant surveyor might present suggestions, which ters an improved taste in the construction labor of the students themselves. As to and arrangement of their plantation build-

4th. Implements of Husbandry. An enumeration of these might he made-new ones, and proper improvements on the old, might be suggested-by the adoption of which, much labor and time would be saved, that are now injudiciously expended.

5th. Labor or Power. What kind used should be saied-whether manual, horse, mule, oxen, or steam, and what sort best adapted to the condition of the district.

. 6th. Live Stock. These ought to receive | while they are taught the scientific principarticular attention. The different breeds | ples of agriculture, they follow out its details should be noticed, and the mode of raising as a means of supporting themselves and the acre. and feeding, whether best suited to existing the institution. The plan has succeeded circumstances.

very particular remarks should be made upon the roads, bridges, ferries, water and land carriages of the district-and every means ters would find themselves put to the blush of improving the same, whether by State, at their own deficiency of professional Corporation, or individual exertion, should knowledge, in contrast with that of many of or at the rate of 29 bushels and 12 quarts be suggested.

Agricultural and Geological Surveyor overseers are to be educated, their character or at the rate of 35 bushels and 28 quarts to numerous, and even beyond the acquire. calculable advantages would be the creament of one man; but the difficulty is only tion of such an institution. in our own imagination. Similar surveys have been made in England, France, Belgium, Germany, and are now going on suc- Free School system. In every district in cessfully in Russia and other portions of the State schools would be supported out of Europe. In our own country, they have been | the public fund. And in these schools the partially conducted in several of the States, elements of agriculture with the other scienand are now displaying their immense utili- ces should be taught in addition to which, ty in the improved condition of the agricul- some simple system of military tactics the acre. The Nos. which I wished to stone through.

surveyor, whose duties are similar to those | might be constantly and efficiently drilled. I have just enumerated, has commenced his work. Already has he gone over two or feel himself benefited, the agriculture of the whole Union must be improved by them.

In a recent journey through the State the demand for such an officer as I have de. scribed, met me at every stage. Every where uncultivated soils, with perhaps rich minerals under them, lay valueless for the want of some competent person to analyze and expose their riches. Farmers were all about leaving their exhausted lands, and taking from the country their la or and wealth; when just beside them, may have been opened the secret cause of all their fail-

expronument. To state one out of an hundred similar instances, a distinguished agriculturist assured me of the fact, that several years ago, at his own individual expense he had a portion of soil in his neighborhood examined, with the view of testing what component part it wanted, which rendered it so unpropitious to the cul ivation of the fine cotton. The absent part was dis covered, an further examination presented it in an adjacent and more spot. Since which period, from this discovery alone, lands in that vicinity have been enhanced in value at least fifty per cent. Let me repeat that this is only one out of an hundred instances of the kind I could adduce; and any one who has paid attention to the history of agriculture, could mention many more. The example of Count Chaptal, of France, should convince the most skeptical. That distinguished chemist purchased poor lands-examined and tended them upon scientific principles, and while others about

him were reaping nothing but tares and thistles, his lands yielded him fifty and an hun-Secondly--The Convention should re commend the appointment of an Agricul-

tural Professorship in our South Carolina College. No Seminary of learning is complete without such a professorship; and no well educated man, particularly in a country like ours, should consider himself accomplished without knowing at least something of the elements of agriculture. Such has not been the sentiment of gentlemen heretofore. They attend college, pass through course of the classics, belle lettres, mathematics and a few other of the sciences, and return home knowing as little of the principles of that science, by means of which they are clothed, fed, and educated, as if it were a knowledge of booaish acquirement, and only fit for their slaves. Even in the European Universities, years ago, agricul. ture was deemed unworty of being taught as a science. But this sentiment of a feudal age has gradually worn away, and for an educated European not to know something of Botany, Natural Philosophy and Chemistry-he essential sciences which compose that of agriculture, is at present as remarkable as formerly, such acqu rements were wonderful and liable to persecu ion.

It is often urged that the planter may pursue his vocation without such an elementary education. So indeed he may, and so may the physician pursue successful his profession without the study of anatomy, the materia medica, or any of the other branches of his sc ence--but in both cases must more than the results of an enlightened ex-

Thirdly-The Convention should recom mend the establishment of an Agricultural School in same healthy and central portion tached a sufficient extent of arable land, cultural experiments. And while in the school, the elements of agriculture should be taught, its practical effects should be tes. could not fail of producing among our plan- ted in the fields, under the eyes and by the the decided utility of such schools, we are not without example, that of Von Thaer at Morgalin, in Prussia, is well known to most readers, and in our own county the Van Ransaller Agricultural School in New. York, and the farm school at Thompson quarts to the acre. Island, near Boston, afford full promise that such a system of education is neither time nor money thrown away. The latter school was instituted for the support and education of orphan and vagrant boys. They there receive an excellent English education; and to an acre.

beyond the most sanguine anticipation of its | which is equal to 17 bushels and 30 quarts 7th. Improvements. Under this head, founders, and I speak with a knowledge of an acre. facts, when I say that in listening to the examination of this school, most of our planthe students who as yet have not numbered to the acre. These are some of the duties which an fifteen years. In a sate like ours, where might discharge. I grant, that they appear formed, and their habits fixed-of what in- to the acre. Fourthly-The Convention should recommend the entire Reformation of our

Objections may be raised to the expense which such a reformation might incur, but

three counties, and published his report of when we reflect that the child of every citi their Geological and Agricultural condition. zen will be thus educated alike, and with re-The amount of practical information which gard to our own domestic policy and instithese reports embody is inappreciable; and tutions-all objection must vanish in the while every farmer of Massachusetts must manifest advantages of the scheme. Pride of State, if nothing else, should awaken us upon this subject.

Fifthly-A thorough remodeling of our Militia Patrol and slave laws should be recommended. As they now stand, they are confused and altogether unsuited to our con-

Sixthly-The annual appropriation of a be drawn by a State society, composed of render them worthy of general adoption .delegates from the agricultural societies of We'are convinced that the proper way to the Liverpool traders at New York, a pig articles as may tend to advancement of the a plan, we have less land to attend through. agriculture of the State.

Every planter in the State might become a competitor for such premiums, and a specification of the production of the article for which he competes may be handed in under oath, by the delegate who represents his dis-

If an agricultural school be established the meetings of such a society might be held once a year at the school : at which time an examination of the scholars might take place before the delegates. The offers for premiums compared -and if possible specimens or descriptions of them preserved in a proper laboratory or museum for the future use of the school and its visiters.

That such an appropriation of premiums would impart great interest to our agricul. tural pursuits, and be the direct means of introducing permanent improvements amongst us, has been amply illustrated by the example of other States.

These strike me as some of the most important subjects which should occupy the time and deliberation of the Convention. -Upon them, among other wants of the planters, the Legislature should be memoralized -not in a tone which may imply that we ask as a favor, but that we in justice claim as a right. Let the Convention be unani. mous-let not incidental questions consume its session in idle or wrangling debate, and the result cannot fail of proving highly auspicious to the interest of the State.

Respectfully yours, Charleston October 1839.

From the Southern Agriculturist. EXPERIMENTS IN CULTIVATING CORN. Barnwell, Sept. 20, 1839.

Mr. Editor,-Allow me to record in your valuable work the result of my experiments this season with five kinds of corn, and with two rows of each. The beds were five feet apart and the corn was planted in chops in the alleys of the last year's cotton beds,

every four feet on the 21st of last March. Nos. 1 and 2, with yellow West-India flint corn. In each chop of No. 1, two grains; and in each chop of No. 2, four grains were dropped.

corn were dropped.

In No. 5, two grains; and in No. 6, four grains North-Carolina flint corn were dropped.

In No. 7, two grains, and in No 8, four grains of white flint corn (obtained from Alfred Huger, Esqure) were dropped. In No. 9, two grains; and in No. 10.

four grains of Baden corn were dropped. Over each chop where two grains were dropped, one quart of cotton seed was placed, and over each chop with the four grains of corn, two quarts of cotton seed were placed.

The corn was sonked for three days and two nights, in a strong solution of saltpetre. It was well cultivated with the hoe and plough. The drought much injured the plants, and these ten rows were not suckered. I am induced to conclude the corn was much injured by these suckers, as they produced no

On the fourth of this month, these ten rows were shelled and measured, after having been gathered about ten days. The product of sound corn was thus :-

No. 1, had 120 ears, and made 15 quar s, which is at the rate of 19 bushels and 7 He has in his possession a certificate from

or at the rate of 21 bushels and 25 quarts rate of 4,090 pounds to the acre. No. 3, had 111 cars, and made 21 quarts,

which is equal to 26 bushels and 29 quarts No. 4, had 163 ears, and made 25 quarts,

or at the rate of 32 bushels and 1 quart to No. 5, hal 108 cars, and made 14 quarts,

No. 6, had 116 ears, and made 14 quarts and one pint, or equal to 18 bushels, 18 to show that charcoal acts a more important quarts, and 1 pint to the acre.

No. 7, had 117 ears, and made 23 quarts,

No. 8, had 141 ears, and made 28 quarts, No. 9, had 194 ears, and made 27 quarts,

or at the rate of 34 bushels and 19 quarts No. 10, had 262 ears, and made 38 quarts, or at the rate of 48 bushels and 22

quarts to the acre. I calculate each row of corn as the 41st ture of Massachusetts. In that State, a should be prepared, whereby the students have 104 stalks of corn, lest about 14 stalks These facis coming to the knowledge of

208 stalks of corn, lost from 40 to 50 stalks from the Recorder, he instituted the follow- therefore stall now communicate some par-

The Huger corn is at least two sizes lar-

I am, with respect, your ob't serv't JOHN S. BELLINGER.

sum of money should be recommended to want the test of a more extensive trial to with the same success. out the entire season, less trouble in gathering it from birds. We have ourselves tried EDITOR.

From the Southern Banner.

ALVARADO COTTON .- In accordance with our promise made last week, we copy below an article from the " Southern Silk Journal and Farmer's Register," an article relative to this new species of cotton, which is begin- nearly the same original elements, it would and planters. Since our last, we have had vert them to the purpose of sustaining life ; be eagerly sought after.

of this region and the Cherokee country, Whether animal chemistry is able to do and other places in the same latitude. It what vegetable organization cannot, rewill mature in three or four weeks less than mains to be seen; though if there is no mis. in this part of the Sate.

When should be pleased to see the experi- to the nurriton of animals. ment thoroughy tested thoroughly tested on a more extensive scale than has heretofore been practicable for the want of seed, with which we can furnish those desirous to make the trial.

From the Southern Silk Journal.

ALVARADO, OR MULTI-BOLLED COTTON. -We have seen a specimen of this new species of Cotton. It was in the hands Dr. Cooper, from Harris county, and may well be considered a vegetable wonder. The short limbs projecting at distances of from two to four inches apart, on the extremities of which were from one to five bolls o' matured, Cotton of a superior staple. The they had ever witnessed. This stalk contained on the above short space, only 14 bolls, and was stated not to be a fair specimen of the growth of the Alvarado Cotton. In confirmation of this, we perceive in the Macon Georgia Telegraph, that " Mr Siephen S. Wright, of Knoxville, Crawford County, of this State, has a few stalks from seed obtained of Dr. Cooper of Harris. They are about 6 feet high, on one 96, on an other 110 good bolls, besides forms that would not mature, were counted. One contains 27 matured bolls on a single foot !" is by some called okra or twin cotton on account of its resemblance to the okra plant, and also on account of its productiveness; but it is named Alvarado, on account of its able disorder could not be discovered. having been originally discovered on the Alvarado River, in Mexico. The bolls are about the same size as those of the ordinary after fallow; and the reason assigned by cotton; and perhaps contains a greater Mr. Jamieson for the difference was, that weight of seed; nevertheless, Dr. Cooper upon a bean stubble, the plants rarely goth. assures us that his crop will produce at er so freely as those upon a well wrought least 2.500 lbs. seed cotton to the acre the present year, not withstanding one third of his cron has been destroyed by the drought. a gentleman of Alabama, stating that his No. 2, had 134 ears, and made 17 quar's, small crop this year has produced at the

NUTRITIVE QUALITIES OF CHARCOAL. Though the importance of mixing Char. coal with the food of animals, particularly that of swine, has been generally acknowledged, and its benefits extensively tested, still it has been supposed that it only acted as a corrective to the acid tendency of food, and facilitated fattening, by improving the health of the animal. Some experiments are, however, on record, which would seem part in the matter, than has usually been as-

signed to it. In 1793, a family being driven from New York by the fever, were absent about six or eight weeks before it was deemed prudent to return. A number of fowls confined in a loft in the workshop of the house are selected for this purpose, as it requires were forgotton at the time of leaving, and dexterity and attention. Of this husbandry, as it was known there was nothing provided Mr. Jamieson has promised me a full defor their subsistence, it was expected on the return, they would be found starved to of late been much employed in scouring death. To the astonishment of all, the fowls were found alive and fat, though there was nothing upon which they could have They are thinned a little by a draft of four part of an acre, (210 feet square) leaving fed, except a quantity of charcoal and shav. 21 feet ou side of the first and last row of ings; water being supplied from the grind-

each row, and those I wished to contain a gentleman in New York, as we learn ab ut Mr. Jamieson's thrashing machine, ing experiment. He placed a turkey in a box or enc osure, 4 feet long, 2 feet wide, ger, as it respects the stalk, length of the and 3 or 4 feet high, excluded light as much cob and of the blades, than any I have ever as could be done, and allowed a free circu. planted, and is a fine white flint grain. The lation of air, and fed the turkey with soft gellow West-India corn is an early corn, brick, broken fine pounded charcoal, and very sound, and the first fit to grind. Those six grains of corn per day. The box was ten rows of corn were in a field of Baden. kept locked. At the end of the month, the turkey was ki led in the presence of several gentlemen, was large and heavy, and on being opened was found filled with fat. Noth-It is with pleasure we give place to the ing, on dissection, was found in the gizzard foregoing article of Dr. Bellinger. His ex- and entrails but charcoal and brick. Last periments are exceedingly useful; and only winter the experiment was repeated, and

Several years since, in fi ting out one of board, stowed, and the vessel sailed. It was now discovered that the pig was alive ing the corn, and much less care in guard. in the coal, hoie, but as he could not be similar experiments this senson, the result to his fate. He remained in this retreat un. of which shall be made public in due time. til the passage was made, when his pigship was found to be not only alive and well, but materially improved in condition, though broke is arranged and put in less bulk. have swallowed.

When it is remembered that wood, sugar, and several other substances, some of which are most nutritive, are compounded of ning, to attract the attention of our farmers seem possible, by animal chemistry, to conthe pleasure of examining the small stock | though all experiments with wood or charraised by Gov. Lumpkin the present sear | coal have failed. The German chemists have son, and our estimate of its value has been | converted wood into very palatable bread, generally enchanced. Judging from the | by roasing and pulverizing; but calcination. specimens we have seen, and the statements it has been supposed, would destroy whatof those whose experiments enabled them to ever powers of nutrition wood might origform a correct opinion, we are induced to inally contain. The chemical action of regard its discovery as a valuable acquisi- vegetable seems unable to produce the least tion to the wealth of the South; and are effect on coal, and not the least particle of persuaded that it only needs to be known to it has ever been found in the structure of vegetables, though mixed with the earth One fact connected with it its culture will and water in which the plants are growing. make it peculiarly valuable to the planters in the form of the most impalpable powder. ordinary cotton-thus removing one of the take in the statements alluded to, it would preat obstacles to the culture of this article seem probable that this intractable substance, is, in some way made subservient

Gennesce Farmer.

From the Edinburgh Farmer's Magazine. LETTERS FROM A YOUNG SCOTCH FARMER, AT SERVICE TO HIS FATHER, -CONTINUED.

Class 2nd.

May 9. My residence with Mr. Jamei son continues to furnish me with instruction in every branch in rural work; and nothing has occurred to obstruct or lessen the en stalk was about 14 inches long, having joyment repeatedly expressed in my former letters. My master is kind and communicative. My fellow servants join in promoting his views to improve and instruct me; and hitherto the slightest difference has not In No. 3, two grains : and in No. 4, four most experienced cotton plan'ers present taken place betwixt me and any of the nugrains of North-Carolina white gourd seed pronounced it the most remarkable product merous body of people belonging to this extaken place betwixt me and any of the nu-

tensive and well regulated undertaking. Yesterday Mr. Jamieson desired me to accompany him in his ride to examine the winter sown wneats. The break of one hundred acres, after summer fallow, upon which grass seeds were lately sown, looked astonishingly well. It had been thinly seeded, a practice Mr. Jamieson is fond of upon well prepared ground, and was tillering or stooling with the greatest vigor. The ear is already fully formed; though Mr. Jamieson says it will not come out of the shot blade in less than a month. He added that smut or black may be observed in this early stage,-though after the most attentive in. vestigation the smallest sign of that abomin-

The field of wheat after beans appears to be considerably thicker seeded than the one f llow fresh impregnated by manure. I no ited, however, that toos field was green and thriving-that the blade was broad, and in most places twisted something like a serew. The soil is a heavy loam, which Mr. Jamieson says is better calculated for carrying superior crops, both us to quantity and quality, than of the other varieties.

Our lambs were handled last week, and proved to the satisfaction of the butcher .--He marked one bundred that are to be removed to-morrow. I think that Howard to arrive at maturity. He added, that ruta said twenty score were sold, and that the remainder are to be weaned and hogged .-They are going with their dams upon rich grass; and also received ruta baga till about

the middle of April.

Ethot has got all the turnip land cross ploughed and is now employed at the summer fallow. He has already run over some of the bean land with the scraper or Durch horse hoe and has set apart eight horses, and the like number of men, for ploughing and cleaning he bean and turnip crops of this year. The best and steadiest hands scription at a leisure hour. My corps have ditches and cleaning hedges, on which matters Mr. Jamieson bestows much attention. to Elliot for his bean ploughs; and these were men who had been in habits of receiv-

May 15. Hitherto I have said nothing his mode of empping, this plant generally

ticulars concerning that noble implement, imparted by my friend Fairbrain, to whom the sole direction and superintendence of it is entrusted. The machine is wrought generally by water, but has a six-horse impelling power also added, which prevents inconvenience in the driest season; though, except in the summer months, and some. times in autumn, a full supply of water is rarely wanting. The ou'er wheel is large, and placed on it gentle declivity, affording the impelling power its full weight, and throwing off the water cleverly, without hanging on or obstructing the volicity of the wheel by remaining in the tail dam -The barn or house in which the corn thrushed is of dimensions, being fifty feet each district, to be distributed by said socie- make large crops of corn in our State is to on board was missing, and was supposed to in length, twenty-four in breadth, and twenty in premiums, for the production of set manure highly and to plant close. By such have been lost. The cargo was taken on ty feet in height of side-walls above the lower floor, which gives a large stowage for thrashing corn and offal, till time is allowed for cleaning the whole by hand-farmers for got at readily, it was conceded to leave him the market. This is a convenience, I am told, too much neglected in all the original houses; and owing to the want of it, thrashing must often be given up, till the offal or there was nothing, coal excepted, he could am informed that with wind machines, the want of bern ro im has been found a serious disadvantage, as often the impelling power is lost before matters can be put in order for using it. But to return from this digression. The drum of Mr. Jumieson's machine is three feet in diameter, five feet in length, armed with four scutchers or beaters, and moves with the velocity of 2400 feet per minute. To work this machine in a com... plete style, two men are required to feed the rollers; three girls or boys to open the sheaves, and hand them to the thrashing board; the same number of women to riddle the grain in the under apartment, and four men to remove and stack the straw. Gen. erally a woman also is employed to clean the chaff house and keep the offal in order. The corn is brought to the barn as wanted, by two one-horse carts closely boarded .-These usually have full employment; and as a man is required to cast or take down the stack, altogether sixteen hands and two horses are employed; though, in point of fact, the wages of two men, and three girls can only be charged against the machine, because the work of the others would have been equally called for, had the grain been thrashed in the old way by flails.

The saving to the owner, when such ma. hi es are employed, must, even in the first nstance, be considerable; and, when the perfect way in which the grain is separated from the straw is taken into account, perhaps it may be equal to one-fif h or one six h f the gross produce. Fairbairn maintains hat the saving is greater upon wheat, which formerly, when hand flails were used, was with every attention sellom thrashed clean, especially in cold raw seasons. He adds, that one hundred bolls, or fifty quarters of wheat may be thrashed in a day of eight hours, unless the grain has been sloomed or mildewed; and that with oats a still greater quantity may be turned out. As the machine is provided with two pair of fanners, the grain is, in many cases, fit for market after being once riddled; but the u-ual custom is to run it again through hand fanners, Mr. Jamieson being very nice in dressing of his grain that is to be marketed.

May 20. Yesterday and to day ten acres of the turnip break were sown with ruta baga or Swedish turnip for late spring food. The heaviest part of the break was selected for this purpose, Mr. Jamieson being of opirion, that a strong loam, if incumbent on a dry bottom, is better calculated for rute baga than lighter soils. The ground, had got three ploughings, was harrowed, rolled hand picked, till it was perfectly reduced, and free of root weeds, when it was formed into drills with 27 inch in:ervals by a bout of the plough. Into the interval of these drills plenty of dung was deposited, (Mr. Jamieson says that ruta baga requires almost double the quantity of dung that is sufficient for common turnips;) after which the drills were split, and the dung completely covered, when the seed-barrow was run upon the top, which finished the operation.

Mr. Jamieson mentioned two particulars which deserventtention when ruta baga is sown. 1st, That, in forming drills, the plough out to go deeper than when common urnips are intended, so as a proper bed may be made for the extra quantity of dung given otherwise it will not be sufficiently covered. 2dly, That early sowing is advantageous, so as the root may have time baga is a dull growing plant, making slow progress in its passage; and that, if the tield yellow turnip maintain its character, he is not sure but he will abandon the culture of ruta baga altogether.

The remainder of the break intended for turni s (90 acres) is in a forward state of preparation, and is now harrowed down so procure the vegetation of annual weeds,-The plain summer fallow break is trossploughed, and receiving the full advantage of the present dry weather. I presume it will lie in this state uill the seed is over: through Elliot says, if a shower comes soon, he will give it a trimming with his harrows, so as the root weeds may be loosened, and the growth of annuals forwarded. My squad, now reduced to six men, are turning dunghills from morning to night, except when detached for incidental purposes,

May 27. Mr. Jamieson has just furn. ished me with a circumstantial detail of his bean husbandry; some particulars of which ing similar employment in former seasons. must be interesting to you. According