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From the Southern Cabinet. Notes on European Agriculture, by Charlestonian.

NUMBER TWO.

Istated in a former number, that in my opinion, England was in a higher state of fully to account for the fact, that the succescultivation than any other country in Eu rope. This is in part owing to the industry of its inhabitants-to the intelligence of product does not impoverish the land to any those under whose direction the lands are considerable extent, yet it is now universal culavated-and nor a little to the climate ly admitted, by all good husbandmen, that itself. The persons connected with agriculture in England may be divited into three classes. First-The owners of the sol .-These are, in the majority of instances, composed of the weathy adbility. The property is usually entitled, and the laws of the doer ne that plants exude from then primogeniture assign it to the eldest son. -He seldom cultivates his lands, but hires of he same variety, which in time renders them out in large tracts to the second class the earth wafi for their cul wation. (See -the farmer. This ind vidual leases the land January number of the Souther Cabinet, commonly for a term nume even years. H. i. p. 17.) As touj-urs perdrix cloyed on the usually well educated and intelligent, and is appeare of the Frenchmar, so the teeming able to introduce those improvements in ag ear h lougs for a change of fool, and withriculture which the lights of science, and the holds her fruitulness unless she be indutexperience of others encourag him to adopti The manual labour is performed by the third that a forest which has long been covered class-the Peasantry. These are usually with a growth of pine, when cut down do s poor and ignorant, and have scarcely any not spring up again in pine, but in oak, guin. hope of rising beyond the condition of seris. and beckory, an i vice versa. The facts, in They are the cubivators of the soil from a majority of instances, are so. All plants generation to generation, and the sons and spring from seed-there can be no sponta-daughters, in nearly all instances, follow neous production. Omnia ab ora is a docthe condition of their parents class, which, above all others, is most bene- ture has never departed from it. May it fitted by a removal to America. In Eng- not then be that nature, after having for ages land, provisions are high, and the price of nourished one kind of tree, has exhausted labour cheap-in America, it is in general, the properties of the soil adapted to that the reverse. Here, the industrious husband- kind of production, and when a new forest man is soon rescued from a state of dependance and poverty. Lands in our new settlements can be nurcha ed at a less cost than the taxes would amount to in England. Hence the difficulty of obtaining labourers on our American farms, will, for a long on the principle of the necessity of a rotatime, present a serious obstacle to our nuprovements in agriculture. Man every where struggles for independence, and he will not labour for others when he has so have adopted the opposite course. Many fair a prospect of becoming the owner of a fi-lds have been planted in indian corn since. farm. But the strange and wayward ch- the days of the revolution, and the result mate of England, unpleasant and uncomfort- has been that we have retrogaded from for y able, as it may be in many respects-may bushels per acre to eight and often less. give us a clue to the secret of us fertility .--With the latitude of Labrador, its winters cuture in regird to the are less severe than those of Maryland .--Surrounded on all sides by contending oceans and currents, it partakes of their -beaus or turnips. The potatoes, as is variable climate -- it is land possessing the the case in high Northern latitudes, produce atmosphere of the sea. The Guli and Tern smull stalks, and are consequently planted fly over it as if it were a part of their posses. much near or in the rows than with us.sions, and the Solan goose and other sea- Endless varieties have been produced from birds not only nestle among the beeting seed. rocks, but their notes are heard in every part of the island. Within three days sail the kinds usually called horse bean, (Faba of England, the fogs and drizzluog rains vulgaris.) Hundreds of acres are cultivacommenced. My journal tells me there was but one day out of forty in which it did not thes, and the product is immense. It is used rain during some portion of the day. I as food for cattle. I have never known it heard no thunder-nor did the rain fail in to thrive equally well in any part of Ameritorrents as is often the case with us, but ca, probably owing to our warm summers. light showers were continually sprinkling In our Southern States especially, the pods the earth like heavy dews-then the sun in gen ral do not fill well, and I doubt say that manures were not applied to soils to the pursuits of the farmer, in turally ariswould shine for half an hour, throwing its whether it is calculated to be a productive and good crops occasionally raised, before rays in fitful streams through the passing crop. There is, however, one variety from er, which soon ended in disappointment .--There is no calculating on a dry day in is remarkably hardy and prolific. It England. An umbrella is almost as neces is planted late in autumn, and stands the sary an appen lage to an Englishman as a hat. It is no wonder that he is enraptured be experimented on, as a winter crop, when with the bright clear sky of Italy, for he nothing else can be cultivated with us, and was born among fogs, and has all his life it would not interfere with the crop of the time been looking through a haze. He following spring. The Heliogaland bean judges by contrast. Others have told the -Purple Field bean-and Alexandrian tale of the azure skies and balmy air of Field b-an, are also varieties which the ag-Rome and Venice, and his imagination has riculturists of England and France recombeen fired by the theme, hence he conceives | mended to me as probably well adapted to no sun so bright, no air so soft. Had Caro- | winter culture in our Southern climate. lina been as accessible and could he as easily have made the contrast, he would, if not blinded by prejudice, have admitted that no Italian sky exceeded that of our own Southern land. Men may boast of having elimbed the Alps to see the sun rise from the mountain of Riga, or set in the Adriatic, yet I am either so prejudiced or old fashioned as to believe that the poet or the painter may go to the ends of the world and find no fairer sky for the embellishment of a picture than that presented during summer, along our Southern Atlantic coast. But to return to the foggy elimate of England. It has apppeared to me that these incessant slight showers in a high Northern latitude, (where the nights are so short, and the continuance of twilight so long, that I ing by day-light at half past ten in the even- remarked that the varietics called Uxbridge farmer, is required to conduct experiments quiry, and with it the des re for information ; sary irom the shortness of our seasons, to denied, who select and order many choice

dant productions of the soil. The sun, dur ing the long days of summer, imparts sufficient warmth to the nourishment of the plants, and these are continually kept fresh and is cultivated on the Carse of Gowrie and green by nature's watering pot. It is as a superior grain. Three new varietics true, the early part of the summer of my visit (1888.) was characterised as rainy in every part of Europe, still it was not regarded in England as a very striking exception to and the Hicklings-the latter is white in their ordinary seasons. To the fogs and staw, but yellow in simple. Rye is not drizzling rains, together with the absence of too bright a light, I ascribed that rich dirk fields of wheat in the month of Aprilgreen of the fields which I have never witness d in any other country-the scent of t eflowers was, for the same reason, strong r and longer retained-the groves were full of melody -the goldfinch and the thrush seemed to sing sweeter after every passing shower, and the skylark carrolled high in

the air, in spite of the dizzling mist. But, in addition to a favorable climate,

the soil of England has the ben fit of a judicious tillage. I was particul rly struck w th the system, almost universally adopted in regard to the rotaton of crops It should be rema ked that they never cultivate two successive crops of grain on the same field Atthough physologiss have not been able sive cultivation of grain or vegetables exbausts the soil, winist a change to a diff-r n dais is the case. Some have ascribed this to the exhaustion of the proper food of the plan in consequence of its cultivation dur. ing successive years, whils: Decandoll ., M caire and others have accounted for it was roo's certain substances porsonous o plants ged. It has often been inquired why is it This is the trine as old as the days of Linuaus, and n is to be created, imparts its influence to trees of a different-kind, better suited to its present state, and withholding its fertility from that to which it is no longer adapted. Be this as it may, the English farmer acts tion of crops. The result from this and other judicious modes of culture has been an increase of three fold. In Carolina, we

-the average we ght per bushel is from 62 to 73 lbs. -the finest, 65 lbs. The Men. goswell's wheat is a variety of Hunter's and have been very recently introduced. The Whi tington wheat from the South of England-the Chavelier wheat from Francecultivated. Grass seeds are sown in the These are red clover (Trifolium pratense) and Rye grass) Lolium perenne and Italicum. Calves and sheep are allowed, in au-

grass. a heavy one. It is sometimes cut twice, but pasturage in the fall.

4th year--A cros of Barley or Oats is now raised. This is once more succeeded by a fallow crop. In this manner crops succeed each other by fours in good lands, years, but producing in the mean time, other articles equally valuable to the farmer.

From the Franklin Farmer. VIEW OF THE PA T. AND MEANS OF IMPROVE-MENT.

That farmers at the present time have within their power the aleans for a more rapid advance in their profession than was enloved by those of fit'y years since. is perfecily plain to all. The object of this essay is not to est wish this fact, but by the enumeration of some of the means within our reach, to , nable us to decide whether we a. cail ourselves of them to the extent that we might and should, were their importance properly appreciated. The age in which we live is one of movement ; and though farmers, as a class, are the last to be infected with the spirit of change and innovation, it would have been surprising indeed had this honorable employment of so large a portion of mankind, been suff red to rest withou availing itself of the benefits which science and experience have furnished. The grand fact that the earth, through the operations of the farmer principally, is the great source of weal h, had long been overlooked ; ind when, by progressive advancement in

accumulation of recorded facts, the result consequence.

animals, and the increased productiveness of plants hove furnished one of the most offic ent means of advance as well as of profit. I has been stated as the result of this atten. tion to breeding animals, that the average weight of the cattle slaughtered in London, or sold at the Smi hfield market, has incr-aturnn and winter, to feed on the young | sed full on third in fifty years, and that the difference in the mutton is not less than in

for a number of years slaughtered the numusually only once a year, and serves as ber of five or six thousand head of cattle anit only establishes the truth that the farmer more decided, than agricultural journals. If of them when pointed out.

lize in part the difference that exists be

ute, in a considerable degree, to the abun- is from fifty to sixty busels per English acre, ial aid to those who have means and leisure) " whys and becauses" were also given. [time. Again, the land and manure should to attend more strict investigations. In the Books could not circulate extensively or ra- be adapted to the immediate wants of this of these continued and multiplied experi- knowledge; the sneer, once so powerful is well known to agricultural chemists, that ments, the modern farmer has a means of against book farming, was disregarded; the best and only proper nutrim advance already given him of the greatest first demonstrated the utility of science in ing plants is geine or decomposition of the greatest first demonstrated the utility of science in matters. Note that the plants is geine or decomposition of the greatest first demonstrated the utility of science in matters. farming as well as in other pursuits ; the matters. Not

A better understanding of the laws that necessity of mediums of communication method of regulate the improvement in the breeds of between farmers became apparent, and the periodical agricultural press had its origin. That well conducted agricul ural publications are the most efficient means of promoting good husbandry in a country, will scarcely be gu sione by one who has watched eir operation, or noticed the change in the agricultural state of the country that has manner, after the corn roots had expanded taken place since their introduction. To be to their farthest extent and exhaused the without the receipt of one or more periodicals soluble geine in the hill : the green or long 3d year. This is a Grass crop-usually that of beef. A house in Boston, that has of this kind, is a practical admission by the manure, which was first deeply plour farmer that he is behind the age, and that in, would become decomposed, and the his system of culture is of an old fashioned nually, state that the increase in weight for and inferior kind, and an examination of the last twelve years, has amounted to ten his farm, and its products, will be found usuor twelve per cent ; and as the average ally to confirm the impression. A paper weight of the animals is about 900 pounds, which gives monthly a history of the opinthere has been of course an average gain of lions, or details the results of the experience or where the soil is inferior, another year is about 100 pounds on each animal within the of hundreds of the ablest, best informed, a wheat crop only once in our or five prove the immense importance to the farmer cannot fail to interest and instruct. Where corn ; while one below the average, genof improvement in stork, and show him the is the agriculturist that would not esteem it erally yields small corn. way in which still further advances may be a privilege spend an evening with any half made. Nor has the improved state of guil. dozien of these, and listen to their opinions ity and quantity of the grain grown at the or their facts ; and this privilege a well conpresent day been scarcely less decided than ducted and well supported paper will, give han hat we have noticed in beef. Forty him monthly, and allow him at the same pushels of wheat, and one hundred bushels time to change the conversation and the of corn, to the acre, are as common now as speakers as it were, at his own pleasure. birty of the first or eighty of the last were Of all the means which the intelligence, ex. but a few years since ; and the fact of such perience and genius of the age has invented cops not being oftener produced, does not or introduced for the aid of agriculture, there miliate against the theory of improvem m;) is none more effectual, less expensive or

s too slow in seeking the means of advance Agricultural schools deserve, and would agriculture, or negligent in availing him. have received a prominent place in this notice of the means within the reach of the far-The great advances in the mechanical mer to advance his interests, but the subrts, by producing more period implements ject has been so ably treated in a late numof agriculture, and enabling men of genius ber of this paper, that fur her remark would o carry ou their plans in constructing new seem to be superfluous. The experience machines, have added further facilities to of France, Russia, England and Ireland, demprovement, and means, which fitty years monstrate their utility ; the testimony of since, could not have been found, are now Fellenberg, Von Thaer, Dombasle, Yountt, every where at command. Thus we have Farday, and a host of other distinguished only to look at our light, beautiful, easy work. men, is decisive in their favor ; and we shall ing east iron plough, and compare them with hall it as a proud day for the agriculture of the heavy, unwieldy, ill looking and worse our country, when such schools, either by working p'oughs of our predecessors, to re. public or private magnificence, shall be es shear among us.

pilly enough to meet demand for agricultural tender plant from its first germination. It

tioned.) is we ses. The that was put in the hill cent in a soluble state The second spreading of decomponents nure was c. Iculated to operate in a geine rendered soluble and fit for assimila-tion by the dorn at the time of its earing and

filling out, At the time of hoeing, I prefer the plough to the cultivator, for this reason-that it elevates the hill; I have observed that a hill of corn on my land that is raised above the general average hight, yields the largest

At the third hoeing the plough sinks into the subsoil and brings the geine within reach of the shorter roots of corn-while at the same time in hoeing, the subsoil completely covers the soil and manure, prevent. ing the same from evaporating and drying during the hot weeks in July and August. Or should a superabundance of rain fall, the gutters are cut away only by the plough to carry off the water.

The kind of corn which I planted, J consider to be the best adopted to our northern latitude, of any that can be found. It contains eight rows of kernels, is of a beautiful golden yellow color, producing occasionally three, and very frequently two ears on a stalk : the cob is comparatively small as will be seen by the average of shelled cora to the bushel of ears : the kernel is deep and hrge-quite heavy-fifty of the largest weighing an ounce. I have no particular name for this corn.

SAMUEL HARTWELL.

I hereby certify that I surveyed the ground for Dr. Hartwell above referred to, and found it to contain one acre, one fourth and four rods. LUCIUS H. AMMIDOWN. Surveyor.

I will now give the method of English

ROTATION OF CROPS.

1st year. Fallow crop. Irish potatoes

. The beans, adapted to field culture, are ted with this bean, and its numerous varieclouds, giving slight indications of fair weath. the South of France, called the Winter ed to agriculture, but the whole business was associations and, the und spured benefits Bean, (La Feverole d'hiver.) which one of uncertainty, and must always have winters of France and England, and might The turnip crop is consid red as the most

valuable in England for feeding cattle .--Taese different productions, however, require to be noticed under separate heads. 1 will endeavor to return to the subject in a f-ture number.

2 rd year. Wheat-the varieties are yearly increasing. At present the kinds cultivated almost universally in the higher grounds and lighter soils of Scotlin I, are the Golden Drop and Blood Red. The skius are thacker in most other varieties, and engage in what may be to raned experiment. they yield more bran. These varieties al farming, is not to be expected or perhaps would, I think, answer well on our elevated desired, though there is no one who must mountainous regions The average crop is sail to be about fifty bushels to the acre-In the Lothians-the Carse of Sterling, and experienced the benefit of doing so. A

civilization this truth was understood, it was at ouce obvious, that to foster and encourage agriculture was a paramount interest of eociety. Wha knowledge of the necessity of agriculture to the increase of wealth, it began to assume a place in the estimation of the community, to which however justly entitled, it might formerly have looked in vain, as no such claim would for a moment have been allowed.

The application of science to agriculture, was one of the first benefits which the busiestimate of his employment. Formerly the farmer was compelled to plod on in an unvaried toutine, he being presumed to under. stand by nature or by instinct, all that was necessary for the cul ivator of the soil to know. The reasons for the processes he employed ; the cause of the various phenomena of animal and vegetable nature; the why and wherefore of the changes continu. ally going on before him, and for the observation of which no man is more favorably situated than the farmer, were held to be beyond the acquisi ion of the occupier of the soil, not easily understood, and useless if known. Science placed her torch in the hands of such men as Davy and Chaptel. and its light dispelled this delusion. Chemisry, by its powers of analysis showed the nature and composition of soils ; the proper kind, time and value of the several varieties of manures ; the mode an I means of nutrition, and with the knowledge of these came the power of supplying wants where they were found, and correcting deficiencies where they ex sted. We do not mean to erhood, and a strong feeling of attechment the investigation of science had been directremained so, had not the causes that produced mese favorable results been shown. and the means, of repeating them at ple isure placed in the bands of the tiller of the soil.

While the public mind was thus awaken ing, and science was beginning to lend her aid ; men of enquiring mind -, practical farmers, commenced a series of experiments, dy exercises, and which must continue to which embracing in its advance the whole exercise, a boundless influence or the cause circle of agriculture, and continued with in jot agriculture. We allude of course to the creasing zeal till the present time, has afforded the greatest benefits and placed within reach of the larmer one of the screst means of unlimited im rovem nt. Well conduct. el experiments that is, experimen s based on a knowledge of the ends to be obtained and the sure st means of arriving at them. now constitute the most effectual means of advancing agriculture ; and in every coun try are to be found men who are engaged in long neglected this obvious means of imcarrying them forward with a success that equals every reasonable asticipation. That every man who owns, or tills the soil, should of at times feed the necessity of adopting new modes of culture, or who in it not have

tween the former and the present times in

this important implement. The superiori-ty of the hoe fork in all its varieties, scythe, cradie and rake, is not less manifest. The horse rake, by v hich one man performs the work of a dozen, the drill, so indispensable in the cultivation of roots ; the reaping machine, by which the grain is cut, threshed, cleaned, and delivered in the field fit for the

miller ; the cultivator, by which the labor of hoeing and dressing corn and root crops is reduced at least one half ; the roller, so ne. multitude of improved implements now in use, but which a short time since were unknown, furnish undeniable proof of the inthe present time possesses.

Agricultur I s cieties have been found among the most efficient agents in promoting constantly increasing in number, activity and constant us fulness. The grand principle of association for the accomplishment of great objects, have received no better proof of its potency than is given by the history of most of the oldest of these societies. Agricultural societies bring farmers in o a beneficial acquaintance with each other ; they teach the best methods of accomplishing the several processes of farming : they bring to the knowledge of the many, the most valuable plants, the choicest animals, and the most approved implements. They stimulate inquiry, hey invee discussion they reward care and research ; and at the me ting of these societies, the bands of bro hing out of a congeniality of interest, are created or materially strengthened. From these and interchanges of opinion, in regard to agriculture may be said to have originated cause of the farmer, which, as a means of which may be said to belong almost exclusively to the present age ; one which alrea-

Agricultural Press. Other classes of men had long employed

their rights; disseminate a knowledge of heir principles, promulgate their views, difuse necessary information, and serve as a kind of chain to bind the scattered in mbers ity of interest and feeling. The agrituiturs provement and his case, as in many o'hers, while he cared not for himself no one cared for him There seemed a tacit un. derstanling among most of those in other pursuits and professions, that knowledge information he requires comes by instinct June and first week in July. -that sciences could to not i.g in aid of This ex randiancy production is to be

From the New England Farmer, GROWING INDIAN CORN.

As this is one of the principal staple products of the agribulturist of New Eng. land, I believe the result of my crop of corn. together with the method adopted for its production, will interest many of your read.

The piece of land upon which my corn was raised, has been accurately surveyed by Mr. L. Ammidown, and was was found ness of the farmer received from a proper cessary to good husbandry, and in short the to contain one acre, one rood, and four rods. [See certificate.] It may be prope: to state that this survey includes only the Lind which the growth of corn occupied. creased means of progress the farmer at and was not measured from wall to wall ing these presses at the "Savage Factory," but the lines were run upon the outside rows near this city ; the Cotton Press will be shipof corn.

The corn in the ear which grow upon agriculture, and at the present day there are this lot, has been accurately measured in the presence of the Hon. Linius Child and Moses Plumpton Esq. whose certificates likey next, when and where the inventor are subjorned. The quantity thus meas- believes the Tobacco Planters will be able ured amound to two hundred and fifty- to contract with his Agent J. S. Skinner. eight bushels: I have since caused one and a half bushels of these ears of corn to was ever before offered in this city or any be shelled, agreeable to the above measure, and find that a bushel and a half of ears yields seven half pecks of corn, which would make in the whole 150 1-2 bushels of shelled corn. But a deduction should be made for the greenness of the corn, it not being ve sufficiently dry to be called marketable: how much it will shrink I am not sufficien. ly experienced to form a correct estimate. The soil which I cul ivate is what geologis's call Gneiss: it contains a small trace of clay, and abounds in iron : no lime can be detected ; it has more than the usual attraction for mo sture, and in its natural state, was called by farmers cold, found to arise from such communications | moist land--the produce of which ten years ago, was not worth twentyfive cents to the ful, but highly ornamental and praiseworthy acre. It was subdued and brought into to the professor. If any doubt its connection another and most important auxiliary in the mowing by myself, about eight years ago, in which condition it has remained-a improvement, is second to no other ; one moving lot, without manure or cul ivation, until about a year ago, when it was simply ploughed. About the first week in May it was harrowed, and twenty five loads of long or green horse manure spread over if. It was then ploughed as it could conveniently

be done ; toen harrowed again with a horse h rrow, and sevent en louds to the acre of the press to advance their claims, enforce fine fermented manure which had lain in a heap during the water, spread over it and ploughed in lightly with a norse. The land was then furrowed one way only, with a space of three feet and ten inches of the pursuit or profession into a continun- between the furrows : seven loads of fine manure to the acre was put in the hill, at about he distance of two and a half feet -The corn was planted upon this small guan. my of manure of the hall, on the tenth of M p-five or six kernels to the hill.

The corn was boed (ploughed but one way) ince times, in the old fastioned way, was not accessary to a armer-that all me by hilling up, on the tenth and twentieth of

the tiller of he soil ; and in this disposition accounted ter party by the manner of calin the low rich soils of England-in Den- greater degree of attention and care than of matters the furmer for a long while seem. I is seen and parily by the kind of corn that mark-and the alluvial soils of Gormany, I can be usually bestow to by the common ed patiently to acquies e. At last came in, was proted. In the first place, it is neces- of our farmers and planters, it cannot be

We certify, that we were present at the mensuring of Dr. S. Hartwell's corn, above referred to, and found it to be two hundred and fifty-eight bushels of ears.

LINIUS CHILD. MOSES PLIMPTON. Southbridge Oct. 17, 1839.

THE PRESS.

In answer to a great many enquiries from different sections of the courtry, in reference to Baldwin's Cotton, Hay and Tobacco Press, we are authorise I to sny, that they are buildped to the South in a few days. Arrange. ments are making to exh bit the Tobacco Press at the meeting of the Tobacco Planters at the city of Washington on the 1st of for a far better article for this purpose ther, country. Am. Farn e:.

TABLE FROITS.

The neglect to cultivate and provide choice table fruits, is the scandal and sin of the Southern States-Yet what a field it opens for wholesome and even classical entertainment and exercise of both mind an I body ! Can any young gen leman, n ared in the country and expecting to live in it, and to cultivate the soil, pretend that he has nothing to read or to do, while yet he is ignorant of the indingeous country, the variaties and the history of all the various berries, cherries, grapes and other table fruis? Such knowle ige is not only usewith classical reading, let him peruse in the old vo'umes of the American Fermer some series of papers on the history an L calure of fruits, taken from the Albany Argus, and being the fruit of the elegant erudition of Gen. Armstrong.

We have said, writting in great haste, as we are ever forced to do, yet we believe with truth, that the scarcity of choice table fruits is scandalous to the Southern States. -Many there are who are so engrossed in the cultivation of a few staple crops for sale. that the delicacies and fruits of the gorden and the table are considered as unworthy of regard. An irish potato, a drum-head cabbage, a hard red apple, and a peach, all stone and worms, nearly makes up their collection-There is not one farmer o: farmer's son in an hundred, who learn : o graft or to bud-or who can tell, one apple pear, or plumb, or grape from another, when he sees them. Yet how could their leisure moments be more honorably employed than in sudying the ar sol grafing, building, and improving the products of the nursery and garden-studies which have engaged and immortalized the most accomplished men of antiquity. There are many

