

VOL XL.

RALEIGH, WEDNESDAY, JUNE 13, 1849.

SODA SAL .ERATUS.

THE Undersigned, the only manufacturers of genuine Soda Sal Eratus, beg leave to cau-a their customers and the public against an arle made in imitation of the genuine, by several anufacturers who have been induced to this urse by the great favor our article has met with. those who are unacquainted with our article. have only to say, that a single trial according the directions, (which are placed in each packe,) will manifest its superiority over any other nd of Sal Æratus in market, and we warrant it polesome and perfec ly free from impurities. he genuine article can be obtained of any of the polesale grocers or druggists in this city, Boston, avidence. Philadelphia, Baltimore, and New leans. Purchasers ars particularly requested to

e that our brand is on each package. JOHN DWIGHT & CO. New York, March 20, 1849. 13-17t.



R. TUCKER & SON AVE this day received by Adams & Co's Ex press, another supply of Printed Organdi Lawns, Second Mourning Ginghams, Black Silk Fissnes. Ludies' Colored Kid Gloves. Gentlemen's do. do. Plaid and Fancy Bonnet Ribbons, 1 doz. Grass Skirts, ready made, at 75 cents each, yanese Braids, Lace, Buttons, Thread Bobbin Edgings, Blue French Cloth,

Furniture Prints, &c., &c. Also a few Sets of Gothic and mye, a very handsome asticle.	Landscape Tea
Raleigh, May 7. 1849	19—tf.
NEW GOODS BY E	XPRESS.

T. R. FENTRESS', MAY 1, 1849.

THE Subscriber would call the attention of the Public, to a beautiful assortment of Fan-French Cassimeres, and Fancy Silk Vestings, seived this day, which, in addition to the Stock has on hand, selected by himself in person, in arch, will make his assortment one of the most ried in the State, and will be found to contain examination, every article for Dress, Comfort Convenience, for the Season. It comprises ack French and Fancy Cloths and Cassimeres the best Factors, Black and Fancy French Doe ins, plain and figured while Drilling, plain white ured and fancy Marseilles, Black and Fancy tins and Silk Vestings, Black French Drap rtes and Black Cashmerette, for Summer Coats, th a variety of other Goods.

In the fancy line, he offers Silk Shirts and Drawand Gauze under Shiris, Linen and Cotton ced) Drawers, Black and White Raw Silk 1 se, (a superior article,) Black and White Kid d fancy Lisle Thread Gloves, Suspenders, Black lian and Fancy Silk Cravats, (something new.) th a handsome lot of Patent Leather Belts, for

Also, a complete assortment of Dress Shirts, of latest style, received this day, and warranted

hese Goods are offered, with the assurance that y will be disposed of on as moderate terms as House in Rateigh. Sentlemen furnishing their own materiats will



AGRICULTURA L

Wint'i Know of Farming. Beep surface plane ? Plowing.

> BY PROF, J. J. MAPES. NEWARK, N. J. April 25.

H. GREELY, Esq-Dear Nir: In my last communication, I promsied to give your Deep Plowing. Before entering immedifrom Deep Plowing, it may be well to give for encouraging the growth of plants.

The offices' assigned by Nature to the soil are. 1. The mechanical sustaining of the roots

themselves, in proper position; and at the same time that the mass of soil should be pervious to the increasing length of roots. 2. The reception and retention of those

growing plants shall appropriate them. 3. Such mechanical condition of particles

4. Free admission of such components properties.

when seeded down with the surface only disturbed and not properly'plowed will soon run out-for the under-soil from not receiving the influence of the atmostphere,

remains sour, and unnt for supplying the of Nature's bounties. necessary aliment at the termini of the roots, consequently the plants-die. If meadows be deeply plowed they will last much longer without reseeding; and, when both subsoiled and deep surface plowed, the instance has not yet occurred where re-seeding became necessary. Lucerne (French Clover,)

will grow for one, two and sometimes three years, on shallow-blowed land; but if the with increased vigor for fifty years. When moment, in preparing such an answer as properties as will at the same time supply go the benefit of a poor crop of grain, and Luceine fails the close observer will find will, I hope, be satisfactory to W. R. B., abundandant food for the new clover crop. sow clover by itself, not pasture it the

cessary in conomical culture to prepare as the absence of a co-operating cause. Be- Leibig's Agricultural Chemistry. "The universal assistant to the farmer in inoreasmuch soil for their reception as may be fore I proceeded in my attempt to explain quickness with which this decay of the excrerequired, and this quantity is found to be this, I would here say that plaster may be ments of plants proceeds depends on the comgreater than can by possibility be rendered adulterated, and that no doubt there are iso- position of the soil, and on its greater or less not always act well? I say it will afways pulverulent by surface plowing even when lated cases where great frauds are practiced, porosity. It will take place very quickly act well under that peculiar state of soil performed to the full depth of ordinary but a farmer caneasily ascertain the general on a calcareous soil; for the power of or- which it was ordained by nature to act.surface soil. I have proved this fact fully; character of the article he buys by this ganic excrements to attract oxygen and to Lime, or no other fertilizer, answers the for such parts of my farm as were plowed process: to the full depth of the loam, say seventeen

to a still greater depth by the sub-soil plow be it the escape of air, or the dissipation squires a longer time in heavy soils consisrun in the bottom of the furrow left by the of its water of christilization (is considera- ung of loam or clay, The advantages of sub-soil plowing I shall ferent. If it remain an inert mass, like

those of deep surface plowing. No farmer can doubt that a doep soil can acts and why its effects are not as visible as

yield better crops than a shallow one, let formerly, I had better dispose of my answer readers some account of my experience in us suppose, then, a soil to be eight inches as relates to clover, for in that will appear ately upon the advantages to be derived should plow to the depth of 8 1-2 inches, and are not now as palpable always as formerthus bring up half an inch of elay to be act-Ily, and it will show how plaster often meets

> into good soil; that the clay will undergo usefulness upon clover. this change even in a single year, we can-

stated above. Let this practice be contin- land is tired of it, but our climate has chanof plants and necessarily of the plants ued four years, and the soil will then be 10 ged; and our system has not kept pace with be cultivated with advantage are very long, escape. It follows, therefore, as a sequitor inches deep, and when at that depth, an it. The hot summers, preceded by long inch instead of half an inch of clay may be droughts of spring, have all combined to added each year without his discovering prevent much clovor sown at that season destruction of the excrements of one crop that his land is any more cloggy than be- of the year, from vegetating, and has de- must have taken place before a new crop gasses, fluids, &c. which Nature's laws fore he commenced the deepening; but its stroyed much that did vegetrte.

supply to the soil, until the requirements of power to produce plants will be materially Those who have of late years sown Now from all this we come to these con- to the casual observer. This destrine is increased. If the plowing be done in the in the Autumn, in the winter have suc- clusions. Unless there be an abundance Fall, and so performed by back turrowing ceeded in having a fine set of clover, but it of that peculiar food in the soil, on which as shall best tend to the ready parting with as to ridge the land two inches of clay in- is true, it did not grow so tall and luxuriant plants of similar appetites feed two kinds excessive quantities of moisture and soluble stead of one may be safely thrown out on as it did in former times, or as it is some- will not thrive in close proximity, while we excrimentitious matters arising from vege- the surface of these ridges, and the fre- times in some places seen now to do. Why often see plants dissimilar in their habits quent freezings and thawings of Winter so? For two reasons. One is that the growing luxuriantly side by side-some will render it perfectly pulveralentby Spring, food on which clover feeds has been ex- plants luxuriate on the excrements or exuof the atmostphere as, by combination with and charge it with the necessary constituents hausted in the soil, and thus for want of sus- dations of others. "On a soil for example the constituents of the soil, cause them to of ammoia and earbonic acid from snow-wa- tenance, it has dwindled. New and rich which contains potash, both wheat and toundergo enanges beneficial to their general ter to enable the clay so changed to form lands, especially rich loams are filled with bacco may be reared in succession, because a valuable addition to the mass. The farm- lime or phosphates on which the clover the latter plant does not require phosphates, It is well known that if soil is disinte-grated but to slight depths, the roots of constituents of plants are never destroyed; these and Plaster, it is enabled to gather but requires only alkalies and food containplants, on reaching the compact or disinte-grated portion, cease to be healthy, and re-is even burned, its ultimate particles are clover being fed off ercut and carried off, Unless therefore, the soil is full of phos-

I remain, Sir, yours, respectfully, JAS. J. MAPES.

From the Marlboro' Gazette. CLOVER, PLASTER OF PLASTER OR GROUND GYPSUM.

BY PATUXENT PLANTER.

inches, did not give as good crops as other and when heated it emits a sulphurous smell. parts where the subsoil had been disturbed If the ebulition (arising from whatever cause,

ble, it is good. If it be small, it is indif. reserve for my next letter; but to return to sand, it is worthless."

Before we proceed to show how Plaster pleted in the one" m she and underlaid by clay, and that the farmer a strong reason why the effects of plaster others not until the ninth.

"In some neighborhoods, clover will not thrive until the sixth year, in others not the reasons why plowing at all is necessary ed upon by the atmostphere and rendered with counteracting causes that destroy its until the 12th; flax in the second or third year. All this depends upon the chemithis change even in a single year, we can-not doubt if its proportion be no greater than does not succeed as formerly-not that the by experience that in those districts where

the intervals at which the same plants can the time cannot be shortened even by the use of the most powerful manures. The can be produced.'

fuse to sustain the plant-thus meadows, thrown again on the face of Nature for ap- would assuredly deprive the soil of all that phates or of manures containing the proper propriation. The consumed crops of 1849 amount of food so necessary for the clover, saits, clover will not succeed for a series of will supply the raw material for the man- and it would have to live on what the scan- years with wheat or rye." The wheat crop facture of those of 1850; and he should have ty supply of Plaster could attract from the may be good and the clover bad, because his soil in a condition to receive his share atmostphere, unaided by these salts and the wheat getting the start-being stronger, phosphates which crop after crop had ab. exhausts all the aliment before the clover stracted from the soil, without the former can contend with it for the mastery. Thereever returning in the shape of manure or fore, if "W. R. B." wants a fine vield of concentrated fertilizers. Again, it is pois- wheat and clover, he must use bone dust, or oned by its own excrement. By being guano, or agricultural salts freely or a quan-constantly kept in the land unaided by chemicial means of rendering it inocuous, stances as contain the varied chemical propthe excrementitious matter will destroy the erties essential to the production of both MR. WILSON:-The request that you clover, therefore time must elapse between grass and grain. But if he will work his make, that I should answer the queries of the crops of clover, sufficient for it to pass land two years in succession (provided it soil be deep and free, as in some parts of your corrrespondent "W. R. B." has indu- off, or become by decomposition innocent, be good land) in corn or to-bacco so as to has to work on, and the more of these France, it has been known to flourish ced me to employ this, my first leisure or it must be neutralized by such chemical ridit of its poisonons excrements then fore-

putrify is increased by contact with the expectation of every one that ases it, under "Put a quantity in a dry pot over the fire alkaline constituents, and by the general all circumstances and on every soil. Lime porous nature of such kinds of soil, which will not do well on wet lands. Much is freely permit the access of air. But it reyet, I confess, to be learned about Plaster, its uses and its mode of action, but enough is known to render it an invaluable "The same plants can be cultivated with help to the practical and intelligent farmadvantage on one soil after the second year, er. All practical men, and Philosophers, but in others not until the 5th or ninth, and Chemists, and Judge Peters, Gen. merely on account of the change and de- Washington, down to the present age of struction of the excrements, which have an science, admit that one of its chief means

of benefitting the soil and furnishing food converting easily such decomposing agents as it finds in the soil, into ammonia; and rendering it less volatile than otherwise it would be, it is retained longer in the soil, and continues to be slowly evolved, so that the plants receive the greatest benefit with but little loss from what, without the presence of the plaster, would readily that there must be something in the land for the Plaster to act upon-some vegetable or animal manure, as food for its acid to act on-some "pabulum" as clover roots, &c., for its effects to be perfectly apparent supported by Ingenhouse, page 12, in his "Essay on the Food of Plants,"-a very old work.

NO. 24.

Judge Peters also says: "* * * * plaster acts most powerfully, when in connexion, with animal or vegetable, putrified or putri-fying substances." He says in another part of his essay, that "plaster must come in contact with some animal or vegetable manures, or putrified substances, to give its efficacy. And when so connected a small quantity of such manure pr substances, willgive it activity. The auxiliaries necessary to draw forth . the powers of the plaster, are within the reach of every farmer of common industry and moderate capacity."

All vegetables and plants derive their nourishment from the air as well as the soil, while many live almost entirely from what they receive from the air and water; therefore, to all, and particularly to the latter class, is plaster benuficial, Chaptal and others assert that plants use nitrogen, oxygen and hydrogen gas, and carbonic acid as aliments. Now plaster by means of acid, "discugages all the gases from the substances containing them," which it comes in con-tact with, it is evident therefore that the roots or leaves, or vegetation, or animal matter, or manures of either sort, which it gases that they contain which it can extract, the more powerful will be its effect and the more apparent its value, shown as it will be in the increased product of the crop. So, if we want to see the full benefit of plaster, we must put it on such land as it suits, and such land as has a proper supply of matter or substances, out of which the planter, by its chemical action, can manufacture a healthful and agreeable food for the plantsthat you wish nurtured. All soils will benot acted upon. But the peculiar soil on which it will not act is rarely seen. As a general rule it acts better on light, calcareous soils than on very stiff soils. General Washington says he tried it on some of his land at various times and in different proportions for one to twenty bushels per acre, and found no benefit whatever from its application, "yet he was a believer in plaster, and thought on some soils it was of immense value." Plaster, then, is most efficacious when applied to soils filled with decaying vegetwhich is formed by the slowly decomposing able roots or fibres, consequently it is of roots and other substances found in the soil. no use on barren soils. This action of It has been ascertained beyond doubt to Gypsum is only, after all, but an another attract the ammonia and other gasses float- powerful lesson that nature teaches man, ing in the atmosphere, and fix them about which is, unless he judiciously returns to those plants which feed principally upon the soil, in the form of manure, what he corn, clover, &c., are more benefitted by at least, that he need not look to plaster or Before I connclude, let me say once for

give the same attention as Thankful for the patronage he continues to reve, no exertion of his will be spared to merit its

atinuance. A suit of clothes made in any specified time, and

Garments warranted to fit, or no sale. N. B. Orders from a distance thankfully te. ved, and will always secure punctual atten-

T. R. FENTRESS.	W
Merchant Tailor	of
The London and Paris fashions are re-	pi
ved monthly, independent of the Plates, twice	L'uu
rear.	10

Raleigh, May 4, 1849.

Town Lots For Sale.

THE Public Lots in the town of Graham, the seat of Justice in the county of Alace, will be exposed at public auction on the th of July. The terms of sale may be known reference to the 3rd section of the act to lay and establish a new County by the name of

unance,	
JOHN STOCARD, 7	۱
WM. A. CARRIGAN,	
JOHN FOGLEMAN,	1
GEORGE HURDLE,	-
JESSE GANT,	Commissioners.
JOHN SCOTT,	(
JAMES A. CRAIG.	1
ABSALOM HARVEY	1
PEYTON P. MOORE)

7"The Raleigh Register, Milton Chronicle, eensboroegh Patriot and Christian Sun, will ease copy until duy of sale, and forward their counts to the office of the Recorder. May, 99. 27-tds. May. 99.

North Carolina

stitution for the Deaf and Dumb. THE next session of this Institution will commence on Monday, the 16th y of July. Having moved into the new Builig, a few more pupils can be received. As pils will be admitted in their order of applide without delay. Any information on the bject will be given by

oject will be given by WM, D. COOKE, Principal, Raleigh, May 30, 1849, 23-1m. 177 The Register, Hillsborough Democrat, Wishory Wutchman, Asheville Messenger, indelph Hersld, Fayetteville Carolinian, Insington Commercial, Newbern, Republican, thorough Press, Greensborough Patriot and orfelk Argus will please publish the above e month each and send account. with a copy

the paper, to the Principal at Raleigh-JENNY LIND COMING.

A letter received by a gentleman in

not been disintegrated.

ith Corn in hills 4 feet apart, no portion common weal.

but still they exist, and their termini are ed then a great deal of discussion as to its ful but cormorant consumer of phasphates.

maintaining the horizontal position.

many of the gasses found in the atmostphere analysis made by the greatest chemists of Clover is of all grasses the great consu-

of water near its surface, when from deeper Science.

more soluble portion of the manure.

that its roots have reached soil that has and all my fellow farmers. Although I may In this way alone can a succession of fine first year, but fallow the next year, he will

not succeed in establishing any new crops of clover be realised, as will be more secure a heavy clover crop and a good wheat This effect is common to most plants, theory, I will have the satisfaction of know-and no error is more common than to mis-ing that I bestowed labor and research upon extracts which I have selected as fully sus-Then follow wheat with tobacco or corn, take the length of roots of plants. Those a subject in which all feel a deep inteeest, taining my views and which explain the then clover, and so on, he will find that his of the ordinary Corn stalk will average 5 to all are seeking information, and therefore reason that clover only sometimes now a- land was not at fault, but his old system. 6 feet in length; and if a field be planted that I have contributed my mite to the days succeeds well;-that is after a long This much upon the subject of the clover

the soil, to the depth disturbed by the About 1768 or 1770, plaster was first in- tand itself replenishes its exhausted re- ure of late years. low, of one inch cube can be found that troduced as a fertilizer in this country, and sources, or when the industry of man has bes not contain roots. Many of them are a few years after, it was used quite exten- supplied it with what is required for the bo small to be discerned by the naked eye, sively in Maryland and Virginia. It elici- production of an abundant crop of that use- of lime and is a compound of sulphuric acid

the only part capaple of receiving nutri- effects whether great or any at all? What "Every 1000 lbs. of hay or straw are ment. Even the common Onion has roots crops it acted best upon, and the soil it best supposed to extract from the earth so much 18 inches long, and many of them will suited? And in what way it acted,-what phosphorie acid as can be supplied by 8 lbs. descend to their full length if the soil has was the' modus operandi of its effects upon of bones."-Ed. Amer. Far. Vol. IV. page would benefit, and in the same manner and

been sufficiently disintegrated. The roots of the soils or the crops. All this is to a cer- 297. The opinion deduced from Derzelius' most plants descend generally an average tain extent still dubious, and remains still analysis is, that 8 lbs, of bones contain as of two thirds their length, 'a portion only undisclosed among the arcana of Nature's much phosphate of lime (bone earth) as monia contained in manure and spread upon wonders. But after all the discussions up- 1000 lps, of hay or straw abstract from the the land-it fixes the ammonia in the soil Soil has no power to absorb and retain on this subject, founded upon chemical earth," Same art. same author.

until required by the growing plant, and the world, and the theories of Philosophers, mer of phosphate of lime. this retention is just in proportion to the as also the facts which have from time to . "During an interval of rest the soil in a quantity of surfaces of particles exposed; time been furnished by intelligent and prac- great measure, regains its original fertility." and therefore, an unplowed surface cannot tical farmers like Mr. W, R. B., the ben- - Leibig's Agricultural Chemistry ch, VIII. avail of this action, nor can shallow-plow- ficial effects of this substance as an "Certain plants, such as peas, clover and the air, by means of their leaves-hence has carried off in the shape of grass and ed land receive as much benefit from this ameliorator or fertilizer is admitted, and flax, thrive on the same soil only after a lapse broad leaved plants like tobacco, cabbage, grain and provender, or a large portion of it cause as that more deeply disintegrated.- the crops on which it acts best have been of years.

The rationale of this action 1 will explain in a scertained, and the best form of its applica-a future letter. "Decandolle supposes that the roots of plaster than others, particularly spear gras-tion and many of its mysterious ways in im-plants imbibe soluble matter of every kind ses. It is particularly useful in dry seasons of heavy crops, because they are but valua-

disintegration, it might pass downward to a "W. R. B." states many facts that are and returned 'o the soil as excrements .- treatise on this subject as far back as 1797,

All soils are improved by continual con- sum cannot be adulterated, for gypsum is ver, but corn not well after corn. In the Sprengle's Analyses it seems that in every tart with the atmostphere and many con- the stone from which man makes Plaster, last quotation we have the reason for the sue- 100,000 parts of cabbage there are 1822 stituents of the soil are useless to plants un-til they have been thus operated upon; the ture's God, that caused plaster to fertilize heavy crops of red clover in immediate phuric acid. In like number of part particles of soil have also the power to ab clover twenty years ago being unchanged, succession: first, because the greater the there are 584 lime, 70 mag. 94 of sul, acid-

A letter received by a gentieman in particles of soil have also the power to ab-burderion, we learn from the Mercury, sorb the resultant gases of the decomposing manures, but only after disintegration; and as bordy to pay a visit in this country. Ma-will be delighted to see this prove true. Ma-will be delighted to see this prove true. The prove true true true to be and means by which Player acts, and enough dependence.

rest or interval between crops, when the crop and the probable reasons for its fail-

PLASTER.

PLASTER, is technically speaking, sulphate and lime, and is used for like purposes as the muriate of lime.

To the extent of the quantity of lime it contains, it benefits all soils which lime by the same chemical process. It possesses the valuable property of fixing the am-

Compact soils will not permit the water proving both soil and products have all been from the soil, and thus necessarily absorb and in dry warm soils, because from its ble aids to the farmer in elaborating from resulting from rains to enter them, and shal- developed by the active observation of the anumber of substances which are not a- earliest use to this day, all admit that it the necessary materials that he should place low-plowed land will hold a large quuntity farmer aided by the penetrating eye of dapted to the purposes of nutrition, and attracts and absorbs much moisture from in the lands such food as the plants or grass thus subsequently be expelled by the roots the air. Judge Peters, in an elaborate may require.

subsoil capable of freely receiving it. Heavy familiar to us all; and among them, that the Now as excrements cannot be assimilated says:---Whatever be the cause, dew will all, that in my judgment no where can plaslodgment of water about the roots of most effects of Plaster are now rarely seen, and by the plant which ejected them, the more remain on a grass field plastered an hour or ter be more properly, or more judiciously plants is detrimental to their growth, while clover is seldom sown with success, when of these matters which the soil contains the two in the morning, after all moisture has used than, from time to time, on the manure large quantities passing over their surfaces some twenty years ago the reverse was more unfertile must it be for the plants of evenorated from the part of the same field heap. over the cattle yards, and sheep folds, without being received will carry, off the fact. Then he asks "why is all this? the same species. These excrementitious not plastered. I have also seen often this and in the stables. If it ever is of use it is Is the land tired of cultivation? Is the natters, may, however, still be capable of effect in my garden beds, which if plastered, when thus used.

Growing plants not only receive but gypsum adulterated and its properties use- assimilation by another kind of plant, which will retain moisture in the dryest senson throw out matter from their roots, for they less to the application of clover?" Surely would thus remove them from the soil and when there is not the least appearance of reject certain portions which are termed ex- the reason is not such as is indicated in render it again fertile for the first. And if it on those beds not plastered. If water crementitious; these in well disintregrated either of these queries. Mother earth never the plants last grown also expel substances be, according to the old, as well as modern soils are got rid of, but when shallow plow- tires of cultivation, unless you rob her of from their roots, which can be appropria- opinion, "almost all in all" in the food of ed they remain on the impervious soil, and from their proximity to the roots, injure the plants. Look at the garden which is worked every year for a century, pro-ducing annually an average crop.—Gyp-We all know corn grows well after clo-We all know corn grows well after clo-many plants it forms a direct food, as by

MARCH 10, 1849.

MEADOWS. All meadows which have been nearly run out may be greatly increased in their product by the following management: After being mowed and the hay oured and removed, spread on each acre 20 bushels of ashes and 5 of ground bones harrow and cross harrow these in; then sow a peck of timothy seed to the acre; lightly harrow and roll; and you may thus renew your meadow without incurring the trouble and expense of ploughing, with the assurance that it would yield good crops of grass for several years.

Contract your desires, if you wish for it