# THE RALEIGH STAR AND NORTH CAROLINA GA

THOS. J. LEMAY, EDITOR & PROPRIETOR.]

"Porth Carolina-Powerful in intellectual, word and physical resources the land of our sires and home of our affections."

THREE DOLLARS PER ANNUM, in Advance.

### RALEIGH, WEDNESDAY, JUNE 20, 1849.

NO. 25.



#### ULTURA L.

A GOOD COMPOST.

Those having salt marshes and marl on which should be followed by wheat, and either failed to vegetate or "starved out." and that by clover. In thus preparing the uil the period of frost. Such a compost, we feel very certain, would prove infinitely sure to the soil any desirable degree of ferulity.

REPORTS. Minigomery County (Md) Agricultay. September, 1848.
The committee on the Improvemement

of land, a Silver Goblet of the value of ten spring following,

Also to Mr EDWARD STALER. for the secdollars.

Together with this report we return the certificates of the above named gentlemen, itself. to be dispossed of as the Society may see fit though we would suggest to have them pub-

HORATIO TRUNDLE, Jos. F. BAILEY. A Lot of Five Acres, barren Rockland. (poor old field,) clay soil, stiff and sto

planted in corn, putting poudrette in the hill generally estimated by at the rate of one and a half barrels per acre. well worth harvesting, nondrette, and the rest with bone, at a cost of \$8 per acre on the farm and in

wheat and timothy,

Cost of Manures. 250 bushels of Lime, \$62 50 50 bushels bone, on the farm. 7 4.2 barrels proudrette, on 15 00 farm, Manure for wheat, 40 00 Plaster on grass, 2 25 Cost of putting in and cutting 18 57 corn, Putting in wheat, 11 25 Seed wheat, 10 bushels, 10 00 8184 75 Crop. \$125 00 Corn, 250 bushels, Wheat, 100 bushels, 112 32 Three crops of grass, 20 200 00 tons. 37 50 Clover seed, 71-2 bushels,

The land now appears made, having on it a very large second crop of clover and tim othy both in head. RICHARD S. KIRK, for

BENJAMIN HALLOWELL,

\$474 35

To the Committee to award the premium of the Agricultural Society of Montgomery County, for the greatest im. provement in Land-reference being had to the cost, kind of mnures employed, Se. S.C.

The undersigned, in entering the lists of competition tor the premium to be awarded by our Agricultural Society, and in persu, ance of the te "terms and conditions," will state that the chaacter of the land refered to is astiff, tenacious clay subsoil; and at the time of improving and perhaps for fifty years preceding the field alluded to or the greater portion of it at least, was reduced to a state of almost absolute sterility; not very good originall, "the old Maryland plan" of shallow tillage or no mannure no grass seed, and constant washing had nearly divested it of the little soil it once possessed.

When it came into my possession, I made two unsuccessful attempts to improve it by cultivation, and sowing grass seed, and the

although there was no running water on the poor lend as his for

gy" late in the spring, and produced but a scanty crop of very inferior grass.

Some nine years since, I determined to improve the field, cost what it might; and began by a thorough, under draining of the wetportion, by several hundred yards of deep narrow ditches-filling them to within eighbetween the stones.

much deeper than it was ever ploughed benefit. their estates cannot do better than to seize before, The following, spring applied their estates cannot do form marsh mud and about sixty hushels of caustic lime to twenty years ago and equally poor, (pur every occasion to form mass that and the acre and placed in corn. On about posely kept with out other manure since to marl into composis for their next years three-quarters of the field the crop did not test its durability it has rendered it very promixed with 10 double horse cart loads of salt more than pay for the ploughing, if so ductive corporatively speaking, to this day. mixed with 10 dodder, if formed in a pie, and much. Oats followed the ensuing spring Whilst on a portion of the same with 300 marsh mud per acte, it follows a portion of the same with 300 refit to decompose, assimilate together, and with a liberal supply of grass seed as it lbs of guano to the acre—half in 1845 and be meliorated by the effects of the summer's was considered useless to attempt a crop of the balance in 1846—and equally cropped, be mellorated by the entered of the satisfied wheat. Much of the oats was too short no one could point, by the growth of the a reliable manure for the corn crop; the to harvest and most of the grass seed

In six or seven years the field again commaterial for composts a hand and team could into rotation was broken up quite as deep two, or at most, three years its effect is be very profitably employed from now un- as before; the same amount of caustic lime gone. The consusion is that lime though (i. e; in an unslacked state) applied full incor it may be comparatively slow is suce; and poration with the soil & again planted in corn. to say the least is on this description of soil more permanent in its effects than twice the This crop though considerably injured by the ten times as durable as guano in its fertilizquantity of barn yard manure, and would en- bud worm was good; not measured, but esti- ing effects; how much longer remains to be mated at not less than six to seven barrels to the acre—the former crop not yielding as omical where it can be obtained at a reason

Oats again followed the corn on abouttwo thirds of the feld with five to six bush- prove more durable in its effects on some els of ground bones to the acre and lodging kinds of soils than on others, but on all soils over the greater portion of the field. Then it is believed an advantage would resulting in land, that yielded a very light orop. of Farms beg leave to report, that after followed a wheat crop on the whole manu- mixing it with one fourth to one third its particular examination of the certificates red as far as could be, from the barn yard presented to them from several gentlemen and on the ballance, some 80 to 100 and to plough it in, stead of leaving it near they award to Mr. Benjamin Hallowell, pounds of guano to the acre-sowing time- the surface. Lime on the contray losing for the greatest improvement in five acres thy seed with the wheatand clover seed the nothing by atmospheric influence, should

was rather over the thirty three bushels. should be) a year or in advance of the culand greatest improvement in ten acres of This result is ascertained with certainty; tivation to afford an opportunity for the land, a Silver Goblet, of the value of five for every field and lot on the farm is accurately surveyed and plotted and this portion it into more extended and speedy action. of the crop was threshed and measured by

Most of the crop on this field (about ten acreswith the enclosure and eight in wheat) lished, that others may see what can be suffered considerably from drought early object. I would class them something like done on worn out land. owing to its fallen and tangled state from a storm, about the time of ripening; but Ihave no doubt several congtiguous acres might have been selected on the lowest ground, that would have yielded over forty bushels In 1843, latter part of winter and early to the acre. This field was gleaned with in the spring it was ploughed and limed, 50 the horse rake and hogs but sufficient seed bushels per acre; in May 10 bushels of remained to produce a volunteer crop of bone per acre was applied, and the field wheat with the grass this season, that was generally estimated by those who saw it as

In September the corn was cut and hauled This season, this field yielded the heavioff and the land dressed one acre with guano, est crop of grass I ever harvested; and even has now a luxuriant crop of second growth clover intended for seed that is lodging over

the whole extent. We will estimate the "profit and loos," by figures, for a single acre: By estimated increase of corn crop

solely owing to lime, at least 6 bbls at \$2. \$12.00 By estimated increase of out crop, at least 20 bushels, at 40 cts. By estimated increase of grass erop, at leat one ton. 10 00 By estimated value clover seed, at least 1 1-2 bushels for there

would have been none without the lime, at \$4. Thirty three bushels of wheat, average prices old at last spring

Dr To 60 bushels of line cost at kiln 16 cents, To 7 years interest, the' it began to pay in pasture in less time. 4 03 To 60 bushels of lime, cost at kiln 124 cent, 7 50 To three years' interest. 1 35 To 6 bush. ground bones, 3 00 at 50 cents. To 100 pounds guano. 2 00

Total,

Making in round numbers, fifty dollars an acre in favor of the improvement."

In the view of some perhaps, there should be a charge for haulingand spreading the lime; also, for harvesting the increased crops. It is believed the increased product in straw and fodder more than repays the latter; whilst the former and also the expense of draining is fully compensated in es or plaster, so as to separate and render the greatly incress pasture, to say nothing in the account of the state of the land itself. which is radically and permantly improved.

Previous to the application of lime, plaster was liberally used, but with no visible effect whatever. Now its action is as

liberal use of plaster. It produced little clse than running briars and poverty grass.

About one fourth of the field was of better quality, being lower and receiving the washing of the surrounding grounds and washing t

surface, yet most of it was "wet and spon- marked on the same land as I have ever days thereafter, give them a second stirring Planted in corn-lands; at the last hoeing l seen any where: and with the exercise of a with the hoe, taking care, at this working, potatoes require neither weeding nor culti- munication you may judge proper. I have very ordinary degree of judgement the im- to thin out the plants so as to stand f om vation of any kind. - The soil being gene- to gouge from a worn out soil every red provement may be continued and increased 6 to 8 inches apart in the drills. In about rally mellow rich and good tilth, the ger-cent I expend in its improvement; and I

would remark, incidentally that it is probateen inches of the surface with loose stone; ble a fair crop of wheat might have been then a course of liveaves or straw to pre- raised on this land by the aid of guano vent the returned earth filling the interstics alone and at less expense than has been incurred; but according to all the experienc It was broken up in the fall and early I have had, and I have used it liberally in the winter, from seven to nine inches the land would have derived no material

On land which was limed eighteen or clover-uniformily good on the whole, and equally limed-where the guano had and where it had not been used. With me in seen and in the end is much the most econable cost. Guanno may generally be used to profit for a single crop and possibly may bulk of plaster to fix and retain the ammonia be kept near the surface; and is best applied The average yield of wheat, to the acre, as a top dressing (which guano never winters frosts and rains to dissolve and bring

> Ground bones although not so immedite in their effects are much more duarble than of gold.
>
> \* The herdsgraps of the East is called timothy object. I would class them something like ane for the tenant, and ground hones for both; after each has fully availed himself of all his own resources, in the vegetable ma-

The annexed certificate is the only kind product of hay this year.

EDWARD STABLER Harwood, 8 mo 31st 1848.

I have examined the within statement EDWARD STABLER, and from a knowledge the crop of grass now on it have no doubt of the correctness of his statement; nor do I think it an over estmate that several acres together produced quite forty bushels of wheat to the acre.

WM. P. PALMER. Woodlawn, Aug. 31 1848.

RUTA BAGA.

sowing of the seed should not be delayed beyond the 25th of July.

Preparation of the Ground -The 43 23 ground should be ploughed deeply; prior to which, however, where its improvement is looked to as a main object, it should be well manured, broadcast. 'The ploughing done, it should be harrowed thoroughly, so as to reduce the soil to a fine tilth, and then rolled. If manure is scarce, manuring in the ridges with answer, and, of course, require much less manure. It would be best to give the ground two ploughings. The ground being ready, make ridges, say 15 inches apart, 4 inches deep; put in the compost hereafter recommended, about 2 inches in depth; cover ti e king the ridges; drill in the seed on the top of the drills; rake them in lightly, and com-

Quantity of Seed per Acre.-Two cause. pounds per acre is about the right quantity of seed.

Preparation of the Seed .- Soak the seed in fish oil, for at least 12 hours before drilling them in. When ready, drain off the oil, and mix the seed thoroughly with ashthem easy of being sowed; then add 3 parts sand to one of seed, so as the better to en-

fish oil over them, taking care to have

ground open and free from weeds, the culanother working or not.

crop of roots. Where the culturist may of ashes and 1 of plaster, or by drilling in 200 lbs. of guano and I bushel of plaster. Of the Ground .- The soil in which this

turnip most delights is a deep sandy loam, though it will grow well in any light, friable soil-the fresher, the better.

EFFECTS OF MUD ON GRASS LANDS .ast season, Mr. David Choate, of Essex. Massachusetts, sent us, says the Boston Cultivator, some heads of grass, showing since Mr, Choate has given the following: low land, and laid in a heap on high dry short time the heap was removed, leaving about an inch depth of mud, in consequence of which, a very stout crop of grass was produced the next season. The heads of herdsgrass\* from the land thus manured by the mud are eight inches long and of a large size. This shows the very powernearly every section of the country . Almost every farmer has on his farm a mud mine, more valuable in contributing to the happiness of himself and others, than a mine

with us .- ED A FARMER.

From the Massachusetts Plowman. CROWS USEFUL -SCARE CROWS USELESS.

of collateral evidence I can now furnish; not having contemplated any thing of this kind of insects.—Let the farmer take a look at it, The guano was sown with a swinging.

PROFESSOR EMMON'S ADDRESS. at the time of harvesting the wheat last sea- his field at day break and he will perceive low cast, the sower walking in the furrows son or of determining, with precision, the the crow making a meal of the corn worms, between the ridges; so that the greater part which at this moment are preparing to leave side.

Now to the point. When the farmer thereon and having particularly examined in your corn, stir it two minutes, then drain off the water and stir in one pint of gypsum, then it is ready for planting.

The above are proportions for six quarts of corn, Seed corn, thus prepared, is against the taste of the featheredtribe - no crow or other fowl will eat it, and the field, without scarecrows is soon rid of insects. No spare hills remain for beans, but all are full of feet spart, and planted with corn rolled in stalks, and of course, full of ears. I have plaster, and covered by a one horse harrow. About the 25th of June will be a good had experience of this method for thirty ime to put in this excellent root; but the years and have never known it to fail when properly prepared.

Now brother farmers, one and all, please make one experiment, and send the result to the paper, that we may compare notes. and know the truth. Mr. Editor, please try this on one acre of corn-dispense with all scare-crows and I will stand bonds for

ROBERT MANSFIELD. West Needham, March, 1849.

LATE CHOPS .- As the corn and small sight con effectually provide, it is always compost with the soil thrown out in ma- well for the farmer to have at his command The corn on the four rows guanced after

with but very little additional expense for third stirring with the hoe. This, under volumement of the tops and rosts far more the information relating to this manure. In connexion with the above statement I ordinary circumstances, will answer to en- vigorous than in situations expressly pre- which I have now, at the cost of \$100 worth sure a good crop; but, as the great object pared for this crop. It has also been noti- of guano, thrown away. That amount, apin the culture of this root is to keep the ced by many observing culturists that the plied to my wheat, would have doubted potato, when occupying spots that have tivator must exercise his own judgment, in been vacated among corn plants by the vest. determining whether he give his ground ravages of the cut-worm, or other simular casualitied, is rarely injured by "rust." and Of the manure .- Well rotted stable or when indeed, this disease does attack it in barn-yard manure is, probably the best such situations, isappearence is much later shore experiments are deeply interesting. foundation for a compost; 6 loads of which, and its effects far less fatal that under other and we regret that a want of room compels if mixed with 10 bushels of ashes, and 4 of circumstance. We can not too forcibly imground bones, and I of p'aster, will be press upon the minds of our agricultural sufficient for an acre and will not fail, the friends the necessity of providing a liberal season being favorable, to ensure a heavy supply of roots for their stock during winter. To confine animals exclusively to a of crops which nature has furnished in not have rotten manure, he may secure dry feed, at a season when water is often soils. himself a good crop by making a compost with difficulty obtained, cannot ressult oth-of 10 bushels of ground bones, 10 bushels erwise than detrimentally, as it induces disease, and besides, renders the animals resiless and unamiable even under the most gentle treatment. This is a matter of essential importance, and one to which we 32 large octavo pages, and is subject to hope our friends generally will at once at newspaper postage only, viz: I cent on

## ON THE APPLICATION OF GUANO.

From the American Farmer Farmer for this month, your answer to a larity than at present, and in addition to the the effects of mud on the crop. At that time, Petersburg, Va, inquirer, in regard to the valuable papers elicited by the State Agno particulars were communicated; but best method of applying guano, in the hill, sicultural Society of Maryland, the publishto a corn crop. I cannot but agree with you er has secured the aid of many of the most In the fall, meadow-mud was hauled from in your opinion, that the application of ma- eminen agriculturists of the country, as nure to the hill, especially the course may contributors to its pages. During the past nure of farm yards, is too partial to be per-year, a handsome amount was expended manent in effect; nor do I think it will be in premiums for the best essays on impornent improvement of their lands. In rela- ed in the forthcoming volume. The Mary-tion to guano, however, without presuming land state Agricultural Society, at its meetto dissnet from one of your information in such matters, I will merely state facts that \$100, to be expended for three pieces of ful effects of mere mud, which abounds in have come under my observation-my in silver plate, one of the value of \$50, to be ferences from those facts - and leave you to presented at the next Annual Fair of the judge whether I am right or wrong in con-Society, to be held in October next, to any cluding that the most profitable method of person who shall obtain largest list of new applying guano to a corn crop, is in the

ian, with three tons of Chilian, in corn land, the publisher, in agricultural works. seeded with wheat last fall. The whole of the games applied to the broadcast, at the rate of 250 lbs. to the scre. Mr Editor I have long waited, but in with the exception of two bushels or 120 vain for some one to defend the crow. It is bs., reserved for an experiment. The with the exception of two bushels or 120 Saml. Sands, Publisher, vain for some one to defend the crow. It is lbs., reserved for an experiment. The Maryland State Agr. Society's Hall, 128 my opinion that the crows are the cheap-land lay in four foot ridges, and was so Baltimorestreet, Baltimore, Md.

By this methe lists only having it on the surface, last twelve years. The land was crossed deep by rows four running on the ridge or list, to the last 5,served guano, mixed with one of plaster, over the last crop, on the same land, was of the drills; rake them in tightly, and compress the earth with the back of the rake the best possible substitute for them when growing along side of it.

destroyed by blight drought, or any other I believe it may fairly be inferred from

these facts, that, as 50 lbs. in the hill, per encounter his additional trouble, that high-When corn has been cut off by worms acre, produced the same effect, almost, as er and more comobling sentiment, arising at a period too late to admit of replanting, 350 lbs. broadcast, nearly 300 lbs. of the from the unmantly of the thing, should, and the soil should be planted in potatoes, or broadcast was thrown away as far as the will, rece than compensate him, as here turnips, both which will do well when got corn crop was concerned; and as the wheat is rothing which brings a richer reward to in late." The potato is frequently planted plowed in with 150 lbs. of guano, broadcast, the virtuous breast than the consciousness in the New England States as late as the last fall, has awaked from its winter sleep, of its possessor having performed his whole fourth of July; and when the ground has and appears more green and flourishing than daily. been properly prepared, if the season be wheat on the land to which 350 lb., was tolerable fevourable, there is but little dan- applied last spring, then 150 lbs. at least of aure their being thinly distributed in the ger of a failure, although the crop is gene-the spring's application, is lost to wheat.

Culture.—When the plants first come up, go through your patch and sprinkle grass land be broken up towards the close libs. broadcast and no part turned under the fish oil over them, taking care to have of the latter month, when the grass is near lists where the corn stood, had almost no them dusted, at the same time, with either its maturity, the furrow slice laid fairly over effect, I may justly conclude that the way plaster or ashes. This operation must be repeated, early, for three or four successive mornings. When the plants begin to bottle, give the ground a dressing with the loos, and if so think as to impede their growth. then out a little. In a week or teb tates, at least as fair, if not a fairer cross, plants or little and its or harrow.

You can, sir, make what use of this commy chance for a crop at the coming har-Very respectfully.

March, 1849. A KENT FARMER.

REMARKS:-The facts developed in the us to delay an exposition of our views in regard to the needless waste of fertilizers applied to cultivated fields; and in reference to an equally needless loss of the elements

THE AMERICAN FARMER.

The 5th volume of the new series will commence on the 1st of July, 1846. It is issued every month, each No. containing each number sent to any part of the State. or anywhere within 100 miles, or 11 cent if out of the State, and over 100 miles,-At no period of its existence has the "Far-To THE EDITOR:-I have noticed, in the mer" enjoyed a more wide spread popupracticed generally by farmers of experi- tant subjects, and \$100 is now offered for ence, who have an interest in the perma other prize essays, which will be publishing in May, proposed to raise a fund of subscribers te the Farmer-the 2d. of the value of \$30, for the next-and the 3d, of I used last year, three tons of Peruvian 820, for the third largest list, besides sunguano in the corn crop, and & ton of Peru- dry other offers which have been added by

> Terms of the American Farmer .- @1 13 do for \$10-30 do. for \$20. Addr. se

We have trespassed a little on the limited space in our columns to make room for the of it, necessarily, fell in the furrows. One able and interesting address of Prof. Emthe upper side of the soil for the inner at da half bushels of plaster was then sown mon's before the N. Y. State Agricultural on the guano, and followed immediately Society, for a copy of which we are indebted by two plows, listing over the old furrows, to its Secretary, B. P. Johnson, Esq. We learn that the second of the land for upwards of thirty years hav- four table spoonfuls of tar in one gallon of thod, all the guano, with the exception of upon New York Soils, Agriculture, Fruit s. ing frequently in that time noticed the crops boiling water. When it stops boiling, turn that on four lists, plowed previous to sow- &.. from the pen and laboratory of Fir. ing, was turned under. The four rows Emmons, will soon be ready for delivery. listed before sowing were plowed out after Rural Science is greatly indebted to the sowing—turning under all the manure but long continued and critical researchest of that which fell in the list. I wish you to this gentleman; and to the liberality of the remark particularly that two-thirds of the Empire State, which has expended some guano on these four rows was turned under | \$400,000 on its natural History with in the

#### CUTTING AND CURING CLOVER. HAY.

Clover should be cut as soon as it comes 500 hills, in which the two bushels of re- into blossom; and after laying in the awerthuntil it wilts, it should be put into cocks. was dropped at the rate of a handful to to complete the curing. In stacking it four hills, (such a haudful as would be taken of wheat to sow at the rate of two over each ton of the hay, as it is being bushels to the acre.) leaving one peck of formed into stack. If thus cured, and this the mixture unapplied. A hoeful of earth precaution of salting be obvierved, the hay was then thrown in each hill, separating the will be greener, more fragrant, and less the good behaviour of the crow for one guano from the corn, which was planted liable to lose its leaves on being subsein the manner already stated. The whole quently handled, in being fed out to the field was then rolled. The cultivation was stock, and, with she much more two harrowings, two plowings, and a lever grateful to their palates. If the further elling with flukes in July. The increase precaution were taken to stack, layer and layer about, strate with the clover bay, the from three to four barrels to the sore, with former would imbibe the fragrance of the grain crops are frequently injured or great - a difference scracely perceptible, either in latter, and be as acceptable, if not as nuly reduced in quantity by contingencies stock or ear, between the corn on the land tricious, to the cattle as the clover hay against which no human prudence or fore- guanoed in the hill, and that on the land itself. This might occasior, a Little extra broadcast at the rate of 350 lbs. per acre. trouble, but when one is recurring a winter supply of provender for his stock, that conthe most ample means of substituting, when the lists were plowed, was the merest sideration should not be permitted to weigh necessary, such late crops (as may afford trifle better than unimproved land corn, a grain in the belance; for, independent of the pecuniary ber efft which is sure to enure to the careful husbandman who may

DRAINING.

All wet lands should be drained. When deprived of their excess of water, the capacity of such lands, for production, will be increased fully one-third; the products will be improved in quality the lands will be much easier tilled, while the health of the estate will be greatly meliorated.

Contract your desires, if you wish for in-

Be partial to no on , without a cause