THE RALEIGH STAR AND NORTH CAROLINA GAZETTE

THOS. J. LEMAY, EDSTOR & PROPRIETOR.]

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

[THREE DOLLARS PER ANNUM, in Advance.

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AGRICULTURAL

GUANO.

Answers to Inquires. To the Editors of the Richmond Whig: Since the publication in the Whig a month of two past of the article on guano, I have received various enquiries relative to its use, on points which were not treated, perhaps with sufficient clearness. I have been asked

1. What is the best time to put it on the land? Should the ground be first fallowed, or may it be spread on grass land and then turned in?

Guano ehould be applied as nearly as possible at the time of seeding. If the land has been already fallowed, it should be got in with the wheat, and by the same operation; but intsend of the harrow, a shovel plough or trowel hos should be used .-These implements stir the soil to the depth of three or four inches, and thoroughly incorporate the guano with it. The action of the harrow is too superficial. Much of the guano would unavoidably be left on the surface, and its volatile ingredients pass off into the air. A beautiful preparation would be to re-fallow with a single-horse plough. covering the seed and guano at the same time. All land ploughed for Wheat in September and subsequently, might have the guano turned in at that time, for at such a depth there would be little or no loss.

2. Should the guano be ploughed in as soon as it is put on the land, or will it remain on the surface a short time without

It should be covered or mixed with the soil as speedily as possible. The carbonate of ammonia is exceedingly volatile, and it constitutes one of the most active ingredients of guano.

3. Does guano afford a permanent improvement to the soil, or does it act on the first erop, and then leave the land as poor as it was before?

beyond the first season. It is used injuaid of clover, which establishes itself du- monly on declivites; the Dung-heap for itself twice over in the crop of wheat, course of cropping be wheat, clover, corn, it is readily perceived how the corn crop is benefitted. Or if the farmer would prefer a rotation of five years-which would certainly be more profitable-and put his corn-ground in oats, there would be strength enough in the soil to perfect the three crops of grain, provided the land has the in tolerable heart will yield a good crop of oats after corn.

But with the assistance of guano there is no necessity to have any regular rotation. A grain crop may be taken from the land every year, if yearly applications of guano are made. I know for instance, of a lot which has been seeded to wheat for several years in succession, the product of which has been greater and greater every year .-Thus, if a farmer wishes to change his course of cropping-or if he wishes to seed an extra quantity of land in wheat-or make an alteration which may be destrable -it is entirely within his power to do so by the aid of guano, at the same time that his outlay in that article will be repaid by one hundred per cent of nest profit.

All things taken into consideration, there never has been a period in the history of our country when the farmer has had in his power to realize so much clear profit from his land as at this time. It is true that agricultural products have sometimes, from temporary causes brought, enormous. ly high prices, but the farmer has seldom derived any permanent benefit from them, since he was under the necessity of supplying his own wants at prices proportion. It does not taste either cherries or straw-obtained he was under the necessity of supplying his own wants at prices proportion. It does not taste either cherries or straw-obtained he was under the necessity of supplying his own wants at prices proportion. It does not taste either cherries or straw-obtained he was under the necessity of supplying his own wants at prices proportion. plying his own wants at prices proportionably high. It is no longer indispensible to

has brought into requisi ion, all distinctions from a much larger and older dung-heap.

neighbors. One of them put gueno on a portion of his field at the rate of 250 pounds like manner, in salts, and those of the same per acre. The wheat was not seeded till the last of November, and did not regetate for examination was from the same dung until the warm weather immediately preeeding Christmas. By accurate measure-201 bushels to the acre-Had the crop been sowed at the best season, we are at liberty to conclude it would have been greater On the land immediately joining, to which no guano was applied, the product could not have exceeded 5, or at most 6 bushels to the acre. A part of the guano portion was sowed in clover, which has croscope it exhibited a few particles and fiaken well, and now presents a luxuriant appearance. Another of my neighbors, animalcules, I had expected to have found whose land is light and sandy, and who has it a concentrated intusion of the dung heap. not been in the habit of growing wheat, as such, of nigh specific gravity; but it was sowed 11 acres, the greater part was very otherwise; its specific gravity exceeded very poor, and none of it rich. He had 600 lbsof guano, which he scattered over the thinest parts. The product was 130 bushels 1005, leading to the conclusion that the being nearly 12 to the acre. Let these manure was nearly exhausted of its soluble products be compared with the erop of matter. The weather, during the four who has for a number of years been carefully improving his farm by liberal applications of manure, until he has brought it to a high state of fertility. He used no approaching the freezing point This low grano; and though his wheat was beautiful and luxuriant, and highly creditable to his skill as a farmer, yet he reaped only 141 might have prevented the further formation bushels to the acre.

Will not facts like these induce every farmer who can possibly spare the money, or even borrow it, to make a liberal use of guano? J. S. PLEASANTS. Petersburg, Sept. 1849.

ON THE MISMANAGEMENT OF STARLE-DUNG MANURE, ESPECIALLY AS REGARDS EXPOS-URE TO RAIN. - Whilst, at a vast expense, If guano is used injudiciously or in inade-quate quantities, the effect will not remain of the Black Sea, nitrate of soda from South America, gueno from the cost of Peru and diciously when not sufficiently mixed with from the African coast, he is, in oo many the soil, or covered at a depth of several instances, negligent of the manure that his inches. It will in no case answer as a stable and stalls supply. This negligence top-dressing for wheat or grass, in our cli. has been pointed out, and emphatically mate If it is only applied to land in small dwelt on, by every recent writer of authorunnuties, though it may be used in the its on agriculture. As regards exposure best manner, the first crop will take up to rain, and the injurious effects of it on the the whole. If permanent effect, not less kind of manure just alluded to, examples than 200 or 250 pounds to the acre should of it, in this part of England (Westmore. be used, and the wheat should invariably land), where an unusual quantity of rain be succeeded by clove". If weeds alone are falls, are of every-day occurrence, and alpermitted to occupy the land after the wheat most every where to be met with; the inhas been removed, even this quantity of gu- stances of neglect constitute the rule; of care and will fail to add any decided improve- and attention, the rare exception to the ment to a subsequent crop. But with the rule. The farm-steadings here are comring the growth of the wheat, a rapid sys. usually placed on a declivity, often by the tern of improvement is within the reach of side of a road, and, in consequence, every farmer. Guano will not only pay after every shower of rain, the water that runs off, percolating through the manure, nary fertilizing effects of irrigation with but will also produce a luxuriant crop of robs it of some of its most valuable ingrecover for the benefit of after crops of grain | dients, especially its soluble salts, and soas has been proved in hundreds of instan- luble animal and vegetable matter, tending ces. By this means one application of gu- to starve the fields and polute the roads, and at the commencement of every rota. I have had the curiosity to collect portions tion, will amply serve for every crop du-ring the continuance of that rotation. If the the results, as they show, in a very marked manner, the injurious effect and how great is the loss to the farmer in consequence. The first portion collected was from a heap of Stable dung, fresh from the stable just before a heavy fall of rain, the accompaniment by a thunder-storm, nearly an inch falling in three hours. The water which benefit of two years of clover: for any land ran from the dung-heap was of the color of a weak diffusion of coffee, of sp. gr. 1002, to pure water as 1000. With the peculiar smell of stable dung, it had just wards sown in drills 9 inches apart, and perceptible smell of ammonia, which was rendered more distinct by the addition of lime. Under the microscope, it was found by applied during the early growth of the to contain, besides a fine granular matter, crop; and it was twice watered with water and many minute vegetable fibres and scales, in which guano was dissolved, The comparticles resembling grains of pollen, and two or three different kinds of animalcules. Evaporated to dryness, it yielded 2.6 per 1000 of brown matter, which partially deliquesced on exposure to a moist atmos- ry in equal quantities; the latter contained phere; emitted a very faint smell of ammonia when mixed with lime, indicating that in the process of evaporation, most of the ammoniacal salt had been expelled, and was therefore carbonate of ammonia; and when incinerated afforded as much as 51 6 per cent of grey ush-48.4 per cent of the giving a very simple and effectual oure for extract having been destroyed by the fire. Cancer The extract of wood sorrel, used which may be considered as animal and as a plaster through the day, and slippery tant, for one of these insects killed on their which may be considered as animal and vegetable natter. The ash was found to elm at night, will cure any cancer that has first appearance will prevent the breeding contain the sulphuric, phosphoric and carbonic acids, and chlorine, with potash, sods, in that case the skin should be broken in against the hay bird or cherry chopper, but

which were made by some of my nearest similar generally to that obtained from the first portion in its qualities, abounding, in description. The third specimen collected heap, after a fall of 2-79 inches of rain, in 24 hours. It differed so little from the ment with the chain, the quantity of land preceding, that it is not necessary to desis 112 acres; and by the receipts of the cribe it particularly. As might have been miller the product was 242 bushels, being expected, it was more dillute, its sp. gr. being 1004. The last specimen I shall notice was one procured from the same affected. dung-heap, after four days of dry weather following the heavy rain last mentioned. It was onzing out in small quantity; was of dark brown hue, nearly transparent, and almost destitute of smell. Under the mibres, a very few minute crystals, without any little that of the preceding, and was less than that of the second portion, being only another gentleman, immediately adjoining, days without rain, was comparatively cold for the season (it was in September) with a northerly wind-the thermometer, even by day, below 58°, and at night once or twice temperature must have checked or put a s op to fermentation, which, in its turn, of soluble matter. The infusion mixed with lime indicated the presence of ammoniacal salts; it emitted a pretty strong smell of ammonia; and, judging from the effects of other reagents, its composition was very similar to that of the preceding portions, it probably contained a larger proportion of vegetable matter, humus, numic acid, than the earlier dreinings; it gave a very copious precipitate with the acetate of lead. The bearing and application of these results hardly require to be pointed out. As the drainage of the dung neap exposed to rain contains some of the best-the chiefing redients of active manure, excepting always the insoluble phosphates.) it follows, that the more the dung is exposed—the more it is subjected to the greater must be its loss, the more exhausted it must become; and that shelter from rain is essential as a prevention; such a helter as can only be well secured by a hed, under which the manure, if too dry, may be watered with the liquid that may have run from it, received into a tunk; and be subjected to such treatment, from admixture or otherwise, as has been found by xperience likely to render it more efficient. These results, moreover, I need hardly remark, are perfectly in accordance with the experience of intelligent farmers, in many instances on record, of the extraordi-

> waters - the washings and drainage of the farm yard and dung heap. John Davie, M. D in the Edin. Phil ournal .- The Oaks, Ambleside, October

MANURE FOR ONIONS. For the information of "J. C. C.," Exeter. (p. 225.) 1 beg to say that last ear I had one of the finest crops of Onions ever saw; they were cultivated as follows:
The ground (which is a wiff loam on the lower colite.) was ridged up before winter In the middle of March the ridges were levelled, and about 3 inches in thickness of compost was spread and pointed in so shallow as to be only barely covered with earth, The seed was immediately after, between every five rows was an alley 18 inches in width. Waterings were frequent. post consisted of about one third wellsotted hot-bed dung, one-third old night-soil, and the remainder of wood ashes, and black woollen manure, from clothing factoconsiderable quantity of oil. The whole had been well mixed together some months before it was applied. Cultor.

CORE FOR CANCER .- Perhaps I can confer a favor on some of your subscribers, by Cancer The extract of wood sorrel, used

REMADY FOR LOCKIAW .- When one runs seeds, are the common wren, house and properties, are valued in medicine, and its between a poor soil and a rich one are ca- after a fall of 1-12 inch of rain in about 12 a nail or sharp iron in any part of the body, hedge-sparrows, red-breast chaffinch, blackpable of being levelled. He who uses hours. The fluid was of a darker brown take a common smoke-pipe, fill it with tocap, garden-warbler, and the greater and gery. But it is in dying that the use of afpable of bring levelled. He who uses hours. The num was of a darker brown than the preceding, very similar in its appearance under the microscope, of higher handkerchief, place it over the bowl of the march-tits cat insects chiefly, but also cat fused. It is rare that coloring matters he is laid upon the shelf, that he may give place to others more active than himself.

place to others more active than himself.

pearance under the interescope, or night in pipe, and blow the smoke through the stem farinaceous seeds as those of the sun-flower, into the wound; two or three pipes full will or peck a bit of ripe pair or apple; but such pipe, and blow the smoke through the stem farinaceous seeds as those of the sun-flower, present any affinity for the substances to As applicable to these remarks, and for lime, it gave only a very faint smell of be sufficient to start the wound discharging. damage is trifling, and is a reward which the first washing were there no medium by As applicable to these remarks, and for time, it gave only a very faint smell of the encouragement of those who may not ammonia; and its extract obtained by evap. I have tried it on myself and five others, and should not be grudged, considering the which they could be fixed. The substance have determined to use gusno this fall, on their wheat, I will state the results of one smell of the volatile alkali. It yielded, on the wound has been some days standing, it or two trials on the crop lately harvested, evaporation, 10.4 per 1000 solid matter, will open it again if the tobacco be good. Try it, any one who may chance to get such

CURE FOR RHEUMATISM .- The following ere said to be good lotions for the evils of rheumatism. As they are simple, they can be fairly tried by those afflicted with those evils.

INFLAMATORY, -- Half an ounce of alum, half an ounce of pulverized salt-petre, put in half a pint of sweet oil; Bathe the parts

COMMON RHEUMATISM.—Take a pint of he spirits of turpentine to which add half an ounce of camphor. When dissolved rub it on the part affected, and it will never fail of removing the complaint. Flannel should be applied after the part is well fomented with turpentine. Repeat the application morning and evening.

CURE FOR THE PILES .- The following simple application will certainly cure this most distressing complaint. It has been tried by many and found successful:

Take three ounces of pulverized alum, and place it in a belt made of cotton drilling, two inches in width, and wear the beltaround the body above the loins. It should be worn next the skin. Its operation is slow but certain .- Selem Ob.

THE USE OF PLOWERS.

BY MARY HOWITT. God might have the earth bring forth. Emough for great and small-The oak tree and the cedar tree-Without a flower at all.

We might have had enough, enough For every want of ours, For luxury, medicine and toil, And yet have had no flowers.

The ore within the mountain mine Requireth none to grow, Nor does it need the lotus flower To make the river flow.

And clouds might give abundant rain, The nightly dews might fall, And the herb that keepeth life in man Might yet have drunk them all.

Then wherefore, wherefore were they made,

And dyed with rainbow light. All fashioned with supremest grace, Up springing day and night-Springing in valleys green and low-

And on the mountain high, And in the silent wilderness. Where no man passeth by? thur outward life requires them not-

Then wherefore had they birth! To m nister delight to man-To beautify the earth-

To comfort man, to whisper hope When'er his faith is dim: For, whose careth for the flowers. Will much more care for Him.

The following facts are worth the considration of the Members of Clubs.

DESTRUCTION OF SPARROWS AND OTHER BIRES. - Mr. Bradley, in his general treatse on Husbandry and Gardening, shows that a pair of sparrows during the time they have their young to feed, destroy on an av erage every week 3,360 caterpillars. The calculation he founded on actual observation, having remarked that the two parents carry to the nest forty caterpillars, &c. &c., in an hour. These birds likewise feed their young with butterflies, and other winged insects, each of which, if not destroyed in this manner, would be the parent of hundreds of caterpillars.—[A correspondent of ours, who has paid much attenion to the rearing of butterflies, &c. in order to obtain perfect specimens for entomoogical cabinet, had 840 caterpillars hatched rom the eggs laid by one female, of this tribe of insects, in the course of a few days.] -A gentleman writing on the use of birds, in the "Horticultural Register." states that the gold-crested wren, willow-wren, or haypirds, and chiff-shaff, eat insects only,-Where they may be plentiful they may be of great use in thinning, on their first appearance, wheat-flies, blue-dolphin, hop-flies and the tea-plant aphides.—This is impor-

BOMMER METHOD.

From the Germantown Telegraph. Converting Vegetable Matter into vised of late for converting leaves, baulm and other vegetable substanses into manure. These, doubtless may be rendered of immense importance to the farmer, by their which, by the ordinary process of putrefactian and decomposition, is accomplished slowly, and not unfrequently with great loss to the farmer as much of what in reality constitutes the most valuable part or essence of the decomposing materials, is una-voidably dissipated and borne off.

The system of Bommer, together with numberless others of a cognate character, promisses to be of great advantage to the agriculturist, and is, in my opinion, entitled to a much higher degree of consideration and respect, than it has yet received. It is nevertifeless true, that those who avail themselves of the benefits of this system, are required to pay, a small amount for the right; but in this catchpenny world, all things of real value, as well as many things of no value—have their price; but ir recommending a system by which a farmer is enabled to secure to himself an immediate and unquestionable advantage from what is usually considered a uscless incumbrance to the soil-even though it subject the operator to some expense in procuring the "right"-I feel that I am amendable to no charge or imputation which a single breath is not sufficient to refute.

I am persuaded that-if results are to be relied on, Bommer's manure is eminently deserving all the praise it has received, and that Bommer himself should be contemplated, not by any means as a crafty speculated, not by any means as a crary special tor, or empyric in agricultural chemistry, as this is good method, a seilk is deteriorated in lustre by boiling in soap any longer ly safe adviser in the great business which he has undertaken. Still, no one can avail himself of the advantages resulting from the discoveries made by him without a disbursment; and this I have no doubt, although a small objection, in itself considered will be the means of deterring hundreds—ay, the best and the cheapest with which we is calculated to effect.

In this way it is certainly possible for the farmer to avail himself of a very efficient and valuable assistant, and at comparatively small expense. If, indeed, we look at the increased value of the pasture lands, which may be cleared of extraneous herbage, and deteriorating vegetables of all kinds to supply the decomposable organic materials for the combustion, the process will appear any thing but expensive. Many of our pas-tures are almost wholly covered over the extent of their surface with shrubs and other species of worthless vegetation, which greatly circumscribe the range of tood, and materiall detract from their value-all of which by this process, may be converted to a valuable use and made to contribute an important and lasting benefit to the soil.

I hope the numerous readers of the Tele graph, who are interested in agricultural improvement, will candidly ponder this suggestion; it is worthy of their attention, and cannot be examined too carefully, or too

> A MONTOOMERY COUNTY FARMER. PRECIOUS METALS.

The amount of gold and silver in the world is generally estimated at ten thousand millions of dollars, whilst the annual consumption, or rather demand, is supposed to be one half of one per cent. of this sum that is fifty millions dollars. There appears to be no accurate date as to the annual protection of these metals; the whole is a subject of speculation. From the best sources of information that are open to us, the yearly production of silver may be set down at twenty-five millions, and of gold from fifteen to twenty millions. Starting from this point, which may be considered as approaching accuracy, the expected yields in shawls was described. It was to use a small the California mines will only about keep the stock in the world good. No percepti-ble change in the value of gold has ever been produced by the large quantities which have been hitherto acquired amounting to one hundred and twenty-five millions from Russia alone, within a quarter of a century. Whatever may be the amount raised from California, the result will be to enlarge the consumption for purposes of art and luxury. whilst its commercial uses will remain unchange.

Willis & Co's Bank Note List.

ALUM.

The uses of slum are manifold and implying his awn wants at prices proportion ability high. It is no longer indispensible to the owner of fertile lands to make the cultivation of the earth a profitable business of guano and the various artificial fertilizers which the spirit of the age.

It is no longer indispensible to the proportional quantity of the sulphate of magnesia, and common salt.—

Obtained simply by pounding the common salt.—

Obtained simply by pounding the common salt.—

Such marriages, the stone-chat, wheat-ear, pippits and waging out the juice, then put it in a pewer dish or basin, and place it in the sun until it dries to the consistence of tar, when it is fit for use.

The aext specimen examined was fit for use.

Indiana State Journal.

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Indiana State Journal.

employ for this purpose is called a mordant or hiter in, and in this respect alum holds s pre-eminent rank .- This mineral is also made subservient to other less praiseworthy purposes; bakers use it to give a good color to bad flour, and to swell a comparative-MANURE.—Various methods have been de- ly small lump of dough into a large lost; iced ginger beer and lemonade, offered for sale at railway stations and other places in England, if narrowly inspected, will be found imbedded with lumps of alum which

From the Scientific Americ m. CRAPE SHAWLS.

There are many who may not know how the Canton Crape is made, and a short sketch may not be out of place. When the crape shawl comes from the weaver's loom, it is perfectly smooth and resembles gum silk cloth. But the thread with which this cloth is formed are made with one thread harder than the other, and for deeper craping the warp is harder twisted than the welt. The difference of twist in the warp and west as the crapes are twilled, forms all the crimping of the crape, but not until it undergoes the process of boiling. This is done by boiling the shawls in fine white soap for a considerable time, which removes the gum from the silk and by the warp swelling more than the west the shawls come out of the boiler with that sine crisp so much admired. All this crisp can be shaken out again by stretching the shawls on stenters—hence in the dressing operation care must be exercised not to stretch them too much.

The embroidery of these shawls is per-formed after the gum is removed. For this purpose the pattern is printed on the shawls with fugitive blue, and the flowers are then wrought with the needle. After this the shawls are sent to the dyers to be dyed and dressed. Sometimes they are embroided before the gum is boiled off, but than merely to remove the gum, and to embroider with spun silk on the gummed fabrick, would require the embroidery silk to receive two much boiling, and thus dim

its lustre. The use of soap to remove to the gum of raw silk cannot be recommended, but it is Many of our fair ones will no doubt be surprised to be told that their crape shawls have been boiled for two or three hours in soap. Many suppose that boiling in soap would utterly destroy any silk fabric. This in a measure is true; the operation is a nice one-but there is not silk dress worn in our city that has

not in the yarn been boiled in soap.

The reason why the Chinese unished silks have a finer lustre than the English and French, is owing to the gum being removed by a tedious and expensive process of steeping the silks in a cold spirious liquor. In the raw state before the gum is removed the crape is of a dirty yellow collor, but the boiling in soap removes the yellow gum, and the whitish silk appears,— But still it is not yet white. It has to be dyed for this purpose. Some may think this strange, but it is a practical fact. It takes red, blue and yellow rays of light to form a white ray-a trinity, like the great Author who created what Milton terms

Offspring of Heaven's first dawn The dyer, to make his crape shawl white, uses in clean soap for that purpose a little archil and fine indigo strained through a cloth. These colors, mingling with the yellow of the shawl, form a white, which is further cleared up by the shawl's being washed out of the soap in cold water, and afterwards submitted to the fumes of sulphur in a close room.

Crape veils are very expensive, and containing, as they do, so little silk, this seems unreasonable—but the fine crape manutacture is in the hands of a few foreign houses, and the art of dressing the crape is both

n tedious and a troublesome process.

In the last volume of the Scientific American a patent process for dressing fine crape quantity of dissolved gum copal and borax, along with liquid glue to stiffen the crape. This composition , if rightly made and applied, we have reason to know, is good and is worthy the attention of those in this and other cities of our country, whose business it is to redress damaged goods.

MARRIAGE. I never knew a marriage expressly for mo-ney that did not end unhappily. Yet managing mothers and heartless daughters are continually playing the same game. I believe that men more frequently marry for love than women, because women think they will not have a better chance, and