VOL. XLIII.

RALEIGH, WEDNESDAY MORNING, APRIL 14, 1852.

and of the yent ADVERTISING .- 1 Square (16 lines) fret i \$1, and 25 cents for each subsequent insertion.

> AGRICULTURAL. From the Working Farmer.

LETTER OF ADVICE ON THE ANAL YSIS OF A SOIL. NEWARK, Feb. 19, 1851.

Mr. - Warren, Somerset Co., N. J. Dear Sir:-The following is an analysis per column No. 1. The necessary amendents are given under No. 2.

No. 1. No. 2. ANALYSIS. Organie matter, 87.12 8,35 2.10 .45 .05 Soda. Carbonic seid,

above that yo You will perceive by oil is deficient of 1st. Organic matter.

2d. Lime. 4th. Phosphoric acid.

5th. Chlorine.

7th Potash. 1st. Organic Matter.-This deficiency must be supplied in considerable quantity, and in the absence of this amendment, the free use of born-yard manures would be exensive without corresponding advantages. Is must be evident to you that a soil so sandy (87 per cent, of silex and only 8 per cent. minn) cannot in its present state be retentive of manures, and that the more volatile portions will be last in part in the atmosis true that alumina will retain ammonia, but proper composting, which will render the soil before use.

loss by evaporation. For the more rapid de-composition of the organic substances before You will rear us directed in the Working Farmer.

Your soil also needs organic amendments of animal origin, for in addition to the neces-

FRENCE.—If paid strictly in advance, \$2 per anpost, for which purpose it should be added at No. 1. guano cost \$4.60, gain by corn \$2.75, loss \$8.85
pearing quite dry and indeed when the cost of its ammonia till a more powerful alkeli disthe strictly in advance, \$2 per anpost, for which purpose it should be added at No. 1. guano cost \$4.60, gain by corn \$2.75, loss \$8.85
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No. 2.

Mixture. Thus you will readily perceive No. 4.

No. 2. that all the requirements of your soil are easily and cheaply procured, and after their continued use for two seasons, your soil will or some other azotized manure will be posienable them to use up the inorganic constituents you are about to add; for although of your soil, made by Mr. W. H. Bradley, as plants cannot succeed in soils deficient of their norganic constituents, still it is equally true that they require the stimulating effects of am-

for it is required in minute quantities, and the tion, to an unexpected length. limestone of your vicinity is so charged with magnesia, that the use of salt and lime will

You need not attempt to add the whole required quantity to your soil in one, two, or questions and want of success.

three years, but by continuing the use of the . If he had treated 200 pounds tain full crops, and eventually place your charcoal soil in a condition to be worked with led his crop.

If will be observed that the last item gives manure is ready for sale.— En.

Working Farmer.

progrees—but as the preparations of muck, quantity of churcoal dust named, Guano &c., cannot be made in time for your opera- should be composted with charcoal dust and tions of this spring, let me recommond for immediate use the following compost, which sulphuric acid, a month or more before being have before referred to as compost A.

٨. 200 lbs. of Peruvian guano, composted with 150 lbs. of bone-dust previously recommended in the Working Far-

12 bushels of charcoal dust. fore plants can make use of them, more before use, so that the ammonia of the soil, caused more of the guano to be retained un- will do it more harm than can be remedied by

ately charged, and therefore it is advisable to the salt and lime mixture per acre, but do not proposed .- [En. leaves from the woods, and the use it too freshly made, as it should have black earth which you state you will have in gone through the chemical changes from salt large quantities, from the removal of fences, and lime, to chloride of lime and carbon te of dec, these will furnish an amendment, by soda, (See p. 4, vol. i, and p. 279, vol. iii.) of phosphate of lime in all the known forms, trosts.

equally valuable with alumina for this pur- stable manure applied to one acre, and for urged the use of ammonia in some form, for to it next fall, and leave it levelled surface dupose, results from such decompositions, as many crops a still greater, while its cost will from our practice we continued to find that ring winter, and it will be less blowey next sorely as from the close burning of vegetable not exceed \$10, an amount but little, if any, phosphoric acid and ammonia held first place summer. greater than the cost of carting, handling, and spreading is equivalent of our part manual stress of chargest manual spreading is equivalent of our part manual sident in the soil should be treated so as to convert their carbonate of ammonia into sulphate of ammonia, and prevent unnecessary of the preparation of muck, &c., in time for log one dollar's worth of ammonia and super-rolling and one harrowing will do more good

You will readily see by referring to the ancomposition of the organic substances before rou will readily see by referring to the single substances before allysis of guano, that when the bones dissolv- five loads of barnyard or even stable manure, soil to any material depth, and if you walk after the substances before a substances before the substances before a substances before a substances before a substances before a substances before the substances before the substances before the substances before a substance of the organic substances before the s each cord of the salt and lime mixture, made ed in sulphuric acid are added, and the soils that it doubled its value for practical part ter the roller you will sink in a free soil antop-dressed with the salt and lime mixture, poses. As you have plenty of the cheap organic that all the missing constituents of your soil stances to be decomposed, you can pre- will be there in about the required relative to render the ammonia less volatile, and we carrot, parsnip, &c., should

3 37} ~ 1 92} 3 80 gain 78 3 37} = 1 67} \$13.50 \$13 50 lass 30

Thus, by an expenditure of \$13 80 for be sufficiently in balance to enable you to use guano alone, leaving east, of application and the farm monures with profit, which cannot charcoal out of the question, I made the very be done at this time. You will observe that bandsome sum of the \$13 50, a loss of 30 I have recommended the use of night-soil, cents. This little loss, however, I very will tively necessary to give activity to plants, and for guano; but wheat and oats, in my opin-

most miraculous. I tried it on sweet potatoes,

amendments recommended, with a reference five bushels of bone dust dissolved in sulphur manufacturers, and his office is in the Amerito the relative proportions only, you will ob- it acid, and then with a sufficient quantity of can Institute Building, No. 351 Broadway, tain full crops, and eventually place your charcoal dust, he would probably have doub. New York.

Thus far I have advised you for your future and probably due to the use of the small wetted with the solution of bones in dilute The dissolved bone will supply phosand this must continue to be the case until the guano may change to sulphate of ammonia, organic matter is considerably increased. It and cease to be volatile.

If you have a field which is not re-

and have community urged upon our readers in the scale of constituents found in farm-yard

the muck, leaves, and black soil have been fully treated with the salt and lime mixture, so as to be entirely pulverulent, it is called prepared muck, and of this material you can be prepared muck, and of this material you can be prepared muck, and of this material you can be prepared muck, and of this material you can be prepared muck, for it is not only needed by the soil, but as a vehicle set divisor for other amendments, many of which are soft for other amendments, many of which are so for their crowns by the pressure downwards of their crowns by the pressure downwards are destroyed by the roller from the United stated that certain matters could not be dissented in the resolution to the President of

into account, a mixture of 75 lbs. of pure su- or sodn, the volatile ammonia is liberated, and to know its object and purpose. per-phosphate of lime and 25 lbs. of pure per-phosphate of lime and 25 l

fair price: it was evident that by manufactus free carbon, which I understand you can procure. This lingly submit to, as it may save me some ring their own sulphuric acid at the place where dollars, for I am satisfied corn is not the crop required to be used, and buying the bones and guano in large quantities, they could supply the farmers with a pure article ready made at the farmers with a pur that they require the stimulating effects of ammonia to enable them to use the pabulum premonia to enable them to use the pabulum prebut the experiment not being properly conducted, I will not detail it, more especially as and at an early date a factory will be establishwere as follows:—

Their names and the product of each per series

Within the last week we have succeeded, and ducted, I will not detail it, more especially as and at an early date a factory will be establishwere as follows:—

Their names and the product of each per series

Within the last week we have succeeded, and their own country. He thought this circumment would be agreed to. The institution of the country You need not add the missing magnesia, I have prolonged this, my first communicated for its manufacture, which for a time at J. Matson, 37 harrels, 4 bushels, and one least will be under our superintendence, as the quart. proprietors have agreed to manufacture it as we may direct, and to supply it to farmers at We must refer our young correspondent to 21 cents per pound, decreasing the price at his own figures in part, for an answer to his any time when the cost of the raw materials would permit. Our publisher, Mr. Fred'k If he had treated 200 pounds of guano with McCready, will be the general agent for the

PLOWING HEAVY SOILS WHEN WET.

Sandy or light loams which require com pacting, may be plowed in spring before they become perfectly dry and powdery, but clayey phoric acid, sutphuric acid and lime, while soils which are already too elentice of moisthe charcoal dust will retain any ammonia ture, should not be disturbed until fairly dry. which may be set free from the sulphurie It must be evident to the most casual observer, dissolved in dilute sulphuric acid as acid, or not rendered non-volatile by its pres- that the action of the mould board of any We should suppose that in experi- plow, must be to compress the soil turned by ment 1, 2, 3, probably nine-tenths of the the play to exactly the extent of the weight bushel of plaster of paris (sulphate of ammonia was lost in the atmosphere, and the and tenacity of the removed portious, and as reason why the broad cast application was more clay is maleable and but slightly closuic, i effective, was due in part to the fact, that the will not swell again after being compressed. The above should be together one week or greater division of the guano through the whole and one plowing of clayer soil when too wet.

A few days before plowing your soil and Try again. "Agricola, jr.," and you will find the plow early enough for spring crops, make If you have a field which is not ready for even with this constituent your soil is moder- using the above, tep-dress with ten bushels of a profit instead of a loss, by the plan we have up your mind to under-drain it during summer, and do not sub-soil plow it until after it ness and consequent absence of has been under-drained. Next fall have it ridged and back furrowed, so as to ensure its For the last four years we have made free use being rendered pulverulent by next winter's

If any field be so sandy as to be entirely ive of manures; for carbon, which is Compost A will equal in effect ten loads of necessity of its application; we have also too free for mid-summer use, apply the rolled

If your soil is inclined to lump in plowing, and spreading its equivalent of barn-yard ma- and stable manure, and that these constituents use decomposed muck or charcoal dust whenthe roller on such soils before harrowing -one Whitney's name. He was opposed to Whitphosphate of lime, (so prepared as to prevent than five harrowings without the roller. Do dered to be printed. the lost of the ammonia by evaporation) to no fear that a large roller will compact the we loads of barnyard or even stable manure, soil to any material depth, and if you walk after the roller you will sink in a free soil and the deep. Light seeds which destroy by the were advised that one of the most important to the free soil and the recommended guano so composted as the resolution of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the navel expedition recently ordered to the sum of the most important to the free soil and the free substances to be decomposed, you can prepare during the following summer a sufficient quantity for two or three year's use. When the muck, leaves, and black soil have been fully treated with the sult and line mixture, and other marketable crops, you can prepare the animons less volution to the proportions, and in such admixture as to be did so chiefly because the guano contained soil, and so the instructions to the communicate copies of that expedition! Phere are destroyed by the roller from the breaking and the mixture, and the required relative to render the animons less volution recently, ordered to the proportions, and in such admixture as to be did so chiefly because the guano contained soil, and so the instructions to the communicate expires of that expedition! Phere are destroyed by the roller from the breaking and the mixture, and the mixture as to be permanent in their character, at least until both phosphate of line and ammonia, and of the instructions to the communicate expires the did so chiefly because the guano contained loss of that expedition! Phere are did so chiefly because the guano contained soil, and be thus prevented from baking.

The market approximate of the communicate expires the did so chiefly because the guano contained of the instructions to the communicate expires of that expedition! Phere are did so chiefly because the guano contained loss of the instructions to the communicate expires of that expedition! Phere are did so chiefly because the guano contained loss of the communicate expires of the instructions to the instructions to the instructions to the instructions to the communicate expires of that expedition! Phere are did so chiefly because the guano contained by moving the appointment of the permanent in their character, at least until line in the properties of that expedition! Phere are did so chiefly because the guano contained of the instructions to the permanent in their character, at least until line in the properties of that expedition! Phere be to inform the propertie

2. Line.—This amendment need not be easily as it will find it way to the easily assigned that the control of the mixture, and drop a handful in each manifest of the mixture, and drop a handful in each manifest of the mixture, and drop a handful in each manifest of the mixture, and drop a handful in each manifest of the mixture, and drop a handful in each manifest of the mixture, and the precision was the easily assigned to the blow parts (allphate of lime) freely about your parts (allphate of

GREAT CROPS OF CORN.

"To show what an American soil and clithe farmers with a pure article ready made at most have done, and are capable of doing, we persone and would result in great benefits.— amine the matter, and with a view of 21 cents per pound, and still make a fair give below a statement of the premium crops of corn grown in Kentucky in the year 1850. There were nine competitors, and the surface in which it was stated that some sixty of the Mr. Mangum subsequently withden in cultivation ton acres by each competitor .- Japanes: had been picked up by U. S. vest motion, at the request of Mr. Shi

Congressional.

SENATE.

Washington, April 1, 1852. The Senate commenced business at 121. Numerous petitions were presented against extention of Woodworth's patent.

Ciains, in consequence of the protracted illness and consequent absence of the Senator from Indiana, (Mr. Whiteomb.) Agreed to. WHITNEY RAILROAD.

came up he would more to strike out Mr. ney and to Whitney's plan. The bill was or-

Under these circumstances we endeavored to induce capitalists to manufacture the required a strong opinion of the efficacy of non-an sentions. It was easier to conjecture how Mr. Bulger said that he upper to induce capitalists to manufacture the required efficacy not to be rivalled or surpassed by say such an expedition would be beneficial to the limin because it was unbecomined article largely, and to supply farmers at a

stance offerded an excellent and favorable op- to commanding officers ought to be

J. Maison, 37 barrels, 4 bushels, and one quart.

Peter Pean, 37 barrels, 4 bushels.

S. H. Chew, 27] barrels,
J. Hutchcraft, 23 barrels.

L. W. Hockwey, 20 barrels.

H. Hedges, 21 barrels and 2 bushels.

E. W. Hockwey, 20 barrels.

Dr. B. W. Dudley, 20 barrels.

H. Varnon, 19 barrels and 3 bushels.

H. Varnon, 19 barrels and 3 bushels.

W. Hockwey, 20 barrels.

Or. B. W. Dudley, 20 barrels.

Dr. B. W. Dudley, 20 barrels.

Or. B. W. Dudley, 20 barrels.

Mr. Hale was opposed to the resolution.

He could see a great ubject in sending out this expedition.

Nine millions were appropriated for the support of the Navy.—

One half of its officers were waiting orders, and this expedition was sent out as a means of experting them to their native land.

Mr. Mangum rennwed his motion, and it was rejected as follows:

YEAS—Messes. Badger. Brooke. Chirke,

Ocoper, Dawson, Fish, Poot, Gwin, Hale,

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YEAS—Messes Adams, Baynord, Berland,

Ocoper, Dawson, Fish, Poot, Gwin, Hale,

Mr. Mangum rennwed his was rejecte Study of Soils," in Putent Office Report, of expending the millions appropriated for the Mr. Bayard's amendment was next agree 1850. mand why he sent certain troops to a fort dawn south, replied that he was a minunder in Chief of the Army—might he not answer this resolution in the same manner, that he was Commander-in-Chief of the Army and Mr. Weller said he would have, on this Navy! The Exploring Expedition and been question, to vote differently from those will sent out, and it was not paid for yet. That whem he acted generally. If any Senate was the greatest humber ever heard of, and this may be of the same character; but it be-

what is going ou; but white this was going theory, it would not hold out in practice in confidence in this administrate theory, it would not hold out in practice in this administrate but they are placed in power and are entitled to confidence. Mr. Rusk, from the Committee on Post Offices and Post Roads, reported by instruction of the majority of the Committee a bill these interests known to the family was to inthese interests known to the family was to in- to the form the world,

granting land to Asa Whitney for the construction of a Railroad to the Pacific.

Mr. Rusk said he was opposed to the bill as reported, and when it came up he would not pass.

Mr. Badger had said, that while it would be well enough for a man to discuss family postposed till to-morrow. Agreed to. Ayes, move important alterations. Mr. Gwin gave notice that when the bill would call in the neighborhood to hear them, une up he would more to strike out Mr. There were many things affecting the public interest of which it was not advisable to inform the world. Treaties were discussed and

Committee dependence of the power to event controlled the power to even the po patible with public interest to furnish the in- Congress cannot, Congress has the power to Wurness. It is proposed to hold a Congress has the tion in Ralsigh on the 25th of April as

top orten of observing

special object.

world of our object and purpose. He hoped the much harm.

the resolution would lie over for a few days.

Mr. Shields said he hoped the expedition lay the resolution on the table, at as a would be sent out. It was one of great im-

Mr. Dawson presented a joint resolution of the Legislature of New Mexico, asking the President to decide, that two regiments of troops be raised for the protection of that territory against the Indians. Mr. Fish presented several memorials from New York asking the passage of laws to encourage reciprocal trade with Canada.

Mr. Broadhead moved that an additional member he appointed on the committee on this to mitterest and the administration of the affairs of the Government. It is all very true that the people were the sovereigns, and the Government was administered by their servants, &c., and the resolution was passed, and the Persident to decide.

Mr. Broadhead moved that an additional member he appointed on the committee on that no interests are to be advanced but those of the people, who have the right to know thing to be done by this expedition which right to presume that they are doing anyt

WHIG MEETING IN RUTHERFORD-

A large and enfousiastic Wh considered secretly and for manifest causid-erations of public policy.

Mr. Cass said, that, by the papers they

G. G. Logan was called to the Chair, and C.