The Reporter.

THURSDAY, APRIL 21, 1881.

CORRESPONDENCE.

North Carolina Agricultural Experiment Station .- Bulletin No. 7.

April 2nd, 1881.

FIELD EXPERIMENTS What does my land need to produce a given crop to the best advantage, is the living, all-important question with the intelligent farmer. Different soils have very different wants, varying with their original character and with the kind of exhaustion to which they have been sub jected. It should be the aim of the farmer to supply exactly what is needed and nothing else. It is only in this way that the highest profits are made If. for example, the farmer puts phosphorie seid, ammonia and potash in one of the so-called complete manures at the cost of \$40 00 per ton upon his soil when really only phosphoric acid is needed for his erop upon that soil, and this can be had at \$30 00 a ton, for his immediate pur poses at least he is throwing away \$10 00. It is true that very often our worn lands need all these elements of plant food and the complete manure very generally does well therefore. But it is not by any means always true that it is the thing which it will pay the farmer best

The farmer asks then, how shall I find exactly what it will pay me hest to apply to my soil for a particular crop? The laboratory method which has been proposed gives a very uncertain reply The comparison of the analysis of the soi and the plant teaches us little definitely The analysis of the soil can of necessity represent only a few ounces of soil at most. Thousands of tons of soil are within reach of the crop. What probability is there that the few ounces will accurately represent the thousands of tons. There are many other reasons why this method is very unrehable.

any sufficient return for the 2 to 3 per

cent of ammonia in the nitrogenous mat-

ter to render it worth the five to ten dol-

lars additional which he has to pay for it

The practical test with the crop upon the soil is worth more than all the ana lyses of soils the chemist can make. The noswer nature makes to the questions put directly to her in field experiments are for clearer and more reliable than the theories of the cheeist. Such experiments every farmer should conduct for himself Their results would be his surest guides in fertilizing his land.

I present here a simple scheme for some such experiments having reference to the elements of plant fond most often needed upon an inexpensive scale Thquestion to which the experimenter seeks the answer is, will it pay me best to use phosphoric acid, ammonia or potash upon my soil with this crop, will the return be best with any one of these alone, any combination of two of them or with all three together ?

An acre of partially exhausted soil is selected of as uniform character and as level as possible. It is accurately divided into ten parallel strips. The different substances are applied as illustrated by the diagram, three lots being left with no manure to serve as standards of com-

10:	9	8.	7.	6.	5.	+	33	2.	-	1
Nothing.	Ammonia and Potash.	8. Phosphoric acid and Potash.	Phosphoric acid and Ammonia.	Nothing.	Phosphoric acid, Ammonia & Pota	Potash.	Ammonia.	Phosphorie acid.	Nothing	

40 lbs. dissolved S. C. phosphate (not containing potash) On 3, 20 lbs, of Fayetteville & Florence Railroad, and sulphate of ammonia. On 4, 10 lbs of muriate of potash. Plot 5 receives all three, viz: 40 lbs. dissolved S C. phos phate, 20 fbs sulphate of ammonia and 10 fbs muriate of potash. 6 has noth ing again. Plot 7 gets 40 lb. dissolved phosphate and 20 lbs. sulphate of ammonia. 8, 40 lbs. phosphated, 10 lbs. muriate of potash. 9, 20 lbs. sulphate of ammonia and 10 lbs. muriate of potash, while 10 gets nothing again. The different plots are to be cultivated in all by summer the road will be completed for down toward Paint Rock. We are be kept of the appearances of the oron pleased to learn that under the excellent on the different plots and the produce in management of its present officers the coach is measured separately. Corn and conton will be found convenient crops to experiment with. Though a large variety of field or garden crops adept

themselves to such experiments.

If the experiments have been carefully conducted the farmer will see clearly from the results which element or elements of plant-food were needed for this erop. Of course many more factors tire, for sale by Pepper & Sons. conc into the problem in practice and must be considered in drawing the final conclusions. But the system of experiments presented here in morest out line will be found to be in any case very in structive.

The necessary chemicals will cost under \$8 00 I shall be glad to correspond with farmers interested in such ex periments and will supply them with further directions, if desired.

CHA'S. W. DABNEY,

Director.

The Cape Fear and Yadkin Valley Railroad.

THE MEETING OF THE DIRECTORS -MUCH INTEREST AND SPIRIT SHOWN-THE FAYEITEVILLE AND FLORENCE RAIL

On Wednesday the board of directors of the Cape Fear and Yadkin Valley Railroad held their annual meeting at Fayetteville Every member of the board was present, as follows: Julius A. Gray, president; L. C. Jones, C. P. Mendenhall, of Guilford; Elmund Jones of Caidwell, Dr Harrell, of Wilkes; W. A Moore of Surry; W. A Lash, of Stokes and Dr A F Smith, of Alleghany. State proxy. Also the following directors on the part of the stockholders: whether in the majority of cases he gets J Lilly and A. P. Hurt

The meeting was notably harmonious and the interest shown in the road was very great. The report of President PEACHES, peeled, per lb., 5 a 12} Gray, which was submitted, showed a BERRIES, highly satisfactory condition of affairs. The road is being rapidly constructed the grading having now reached a point about thirty-three miles northwest of Greensboro, in Stokes county. There 130 convicts are at work. The iron for the completed road bed between Gulf and Greensboro has all been purchased and paid for, and will be delivered this month and in May and June. present indications the track will be all aid between the Gu.f and Greensboro by the first of January next

The report of Chief Engineer L C. Jones was also submitted and recited the above facts, with many others of interest. The character of the work on the road was said to be admirable in all respects The work will be pashed from its pre sent point in Stokes, towards both Pat erson and Mt Airy. The point at which these two stems are to branch is not yet determined, but will probably be at or near the Little Yadkin, in Stokes A survey to be made at an early day, ill determine the exact place.

A very important matter considered by the board was the proposed sale or ease of the road. The feeling against any such action was very strong, and there was not a single vote in favor of s. ch a sale. On the contrary it was unanimously agreed to purchase the Fayfrom Fayetteville to Shoe Heel, on the Carolina Central, and thence to the South Carolina line. Instead of selers the board because boyers The road thus purchased is to be completed as practicable, within three years at teast. It is forty-four miles to the South Carolina line, and all save some four miles has been graded some years. There are me or two small bridges. There will be necessary, then, only the repair of em bankments, laying of cross ties and the building of a few bridges or trestles to finish the road to Shoe Heel, and the work will be pushed President Gray

says, with vigor and rapidity.

On Thursday the stock bolders of the Cape Fear and Yadkin Valley Railroad They unanimously ratified the action of the board of directors in their purchase of the Fayetteville and Florence road. The stockholders of the last named road have, it is understood, agreed to the proposition made in every particular A proposition to hold the next annual meeting at Greensboro was voted down, and it will be held at Fayetteville again next April By that time the stock holders will be able to take the usual ride over the line -Raleigh News and

Terrific storms are reported in the west and Northwest, In some places it is said the heaviest snow storm of the season

At a meeting of the Board of Derectors Plot 1 receives nothing. On 2 put Railroad, held in Fayetteville on yester will go to work immediately to complete the line to Florence, S C-Ruleigh Visitor.

Asheville Citizen: The authorities of the Western North Carolina Railroad have completed the road to the French HACK FOR SALE .-

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April 6th. 1881.

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AS CORRECTED BY PER	PPER & so	N8.
CORN, new, per bushel	. 60	
WHEAT,	90 a 1	25
RYE.	75 a	85
OATS, threshed,	50	
PEAS,	65	
BEANS,	65 a	75
BEES' WAX, per lb.,	20	
HONEY COMB.	10 a	12
EGGS, per dezen,	10	
BUTTER, per 1b.,	10 a	15
BEEF, per lb.,	4 a	6
HIDES, green, per lb.,	5 a	8
hIDES, dry, per lb.,	10 a	12
TALLOW, per lb,	6 a	8
CHESTNUTS, per bu.,	1 00 a 1	25
RAGS, per lb.,	11	
PORK, per lb.,	8 a	10
FRUIT.		
APPLES, per lb.,	2 a	6
PEACHES, halves, per		
PEACHES, quarters, pr	lb . 3	

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E. C. CLINARD,
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Winston, N. C., August 19, 1880.—1y

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2 Cases of Flauncel
3 Cases of Linsey
5 Bales of Blichkets and Quilts
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10 Bales of Plaids
20 Uales of Sheeting
15 Cases of Jenus, Cassimerer and Cloth
20 doz Men's White Shirts and Drawers
15 doz Men's White Shirts and Drawers
15 doz Men's and Ladies' Merino Shirts
and Drawers
200 Shawis and Ladies' Cloaks
Immense stock of Notions of all kinds
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50 Bags Coffee
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25 Buckets Candy
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200 Cases Sho s and Boots
50 Fackages Crockery and Glassware
100 kegs tut Nails
20 kegs turse and Mule Shoes
25 Boxes Horse Shoe Nails
15 doz Shovels, Spades and Forks
20 dozen Axes
2000 dozen Coats' Spool Cotton
Cross-Cut, Hand and Wood Saws
2,000 its Sole Leather
500 its Upper Leather
Files, Locks, ninges, Butts, Screws,
Hames, Traces and Collars,
2,000 ibs Pots, Skirlets, Ovens and Lids
20,000 ibs Meat and Lard
1,000 Bag's Sail
500 Usbicis Clover, Orchard and other
Grass Seeds
40 dozen Buckets and Tubs
30 drizen Brooms
30 Colls Rope

30 Cole Brooms
30 Cole Rope
200 Oak Kegs
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Respectfully, Öctober 28th, 1880.

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