

Fertilizing Cotton, ad

Professor E. M. Pendleton, of the University of Georgia, in a late report, states the following experiment, made on thin soil formed by the disintegration of and underlying micaceous slate, which crops out largely in the neighborhood. This soil had been under cultivation for a number of vears. Furrows were opened with a turning-shovel, and rows laid out seventy yards long; to one row was applied one bushel of fresh dung, placed in the furrow and bedded over; to another row was applied in like manner one bushel of old rotted manure; at planting, 100 pounds per acre of pospate of a high grade were To-day put in with the seed in these rows. Another row was left unmanured .-The latter yielded at the rate of 457

Agriculture in the Future.

The demands of the future upon our agricultural resources will be far greater than they have been in the past, and new methods and new systems must be devised and employed to meet them. The yield of the land now under cultivation must be increased, and new fields prepared for new wants. To compete with other nations who, like ourselves, have learned how great the dependence is upon the soil, our farmers must employ greater care in their work. The requirements upon them will continue to increase. Then, too, the drudgery of the farm should be lessened, and the farmer relieved from many of his hardships, his toil lightened, and his comforts increased through the prosaulgation of improved labor-saving machinery. All classes are interested in the accomplishment of these ends, for upon them depends the prosperity and interest of agriculture and the comfort of its followers.

Good Pay in Farming.

We were riding in a public hack with three Southern planters a few they were then in. They were amaz- world. ed, and said it beat anything they Alie result in any particular.

in Eastern North Carolina as he can cessary result.

THE PUTURENOR SHIP CHELE PHON Februari There is nothing more characteris

tic of the presentinge than the avidit

and the infinite marvels of invention. universe a new truth, a new law, s new manifestation of force. To-morpounds of seed cotton per acre. The row a countless host of printing pressrow which had received fresh stable es spread a knowledge of the discovmanure and superphosphate yielded ery to the earth's remotest bounds. 903 pounds of seed cotton per acre, Directly it is made a working factor and the row which had received the in the world's best thought and acrotted dung and superphosphate yield- tion, in a little while some practical ed 892 pounds of seed cotton per acre. mind puts the harness of utility upon On soil of the same description two the new truth, and straightway the rows were laid out seventy yards long. world is the richer by, another useful The treatment of those two rows dif- invention. What would formerly fered in this respect, that in one row have taken centuries to accomplish-30 bushels per acre of green cotton or what the most fearless minds seed were buried deeply with a turn+ would scarcely have dared to dream ing-shovel, while the other row re- of undertaking-is now done in a day. ceived the like amount of cotton seed The invention is achieved, and finds in which the germ had been killed .- a world predisposed to receive it with In each case 100 pounds per acre of gladness, even though its adoption superphosphate were applied at time should necessitate many and radical of planting. In the case of the green changes in the whole range of nationcotton seed little of it came up, show- al and social customs. It took the ing little loss of nitrogen. Another steam engine centuries to pass from row was left unmanured, and yielded the stage of science mapplied to that at the rate of 435 pounds of seed cot- of practical utility. The telegraph was not so many years in rising from the level of scientific experiment to that of a factor in the daily affairs of

nations. What the telegraph accom-

plisheed in years the the telephone

has done in months. One year it was

a science toy, with infinite possibili-

ties of practical use; the next it we

the basis of a system of communica

tion the most rapidly expanding, in-

tacate, and convenient that the world

One of the most notable occurren ces of our Centennial year was a lit tle gathering of scientific men from various parts of the world to test the performance of a new scientific invention of which wonderful stories had begun to be told, especially with regard to what it was going to do. To the astonishment of all it did do marvelous things. A little disk of metal could be made to speak; still more, the operator might be miles away, and exerting power only through his vocal organs. With a couple of manetic cups and a slender wire spoken messages were transmitted through considerable distances and delivered in tones so like those of the speaker that his personality could be detected by the sound of his voice, if it had ever been heard before. Though years ago. One was from Duck Riv- far from perfect, the speaking teleer, Mississippi, one from Louisiana, phone was an assured fact, and a new and the other had farmed on Duck era in social and business communi-River, in Texas, and on White River, cation had dawned. Scores of active Arkansas. They were discussing their minds at once set to work upon the farming operations, telling what they problems to which the telephone gave had made in the most productive rise, and hundreds soon joined them. year, &c. After hearing them talk In a little while the telephone in for miles in this strain, we told them various forms was in the hands of of some farming results in the county progressive men in every part of the

It was tried as a means of uniting had ever seen or had ever heard of more or less widely detached portions We told them when they got to the of business houses, as the salesroom The Last "Rebel" Flag Under Fire. county seat to make inquiry of cer- and the manufactory, and proved a tain leading gentlemen, and they success. As a means of social and prowould find that we had not overstated fessional communication it was equal- forms the reporter that Gen. Tom Why should people leave North form little clusters of telephonic com- of two Texas, one Tennessee, and one Carolina if they can find good farm- municants; the wider and more varied Arkansas regiment, was probably the ing lands in every section? Why the business callings of the members last brigade under fire during the should a man break up old associa- of the group and the more numerous war, as it was engaged with Northtions and family ties to seek a home its membership the greater was found ern troops between Raleigh and Salin a distant State when he knows in to be the utility of the system. But isbury, N. C., just above Chapel Hill fifty counties there are desirable farms it soon outgrew manageable propor- on April 14, 1865, the day that the that can be purchased at from \$4 to tions without some system of centrali- armistice was declared. The flag car-\$10 an acre. If he wishes to plant zation. The telephone exchange, or ried on that day by one of the Texan cotton he can find as productive lands central office, was a natural and men regiments (the Eleventh Texas Vol-

find in Mississippi or Texas. If he Thus a new business sprang into Halford, of Denison, who was a memwishes to cultivate tobacco, in a half existence almost in a day, with no ber of that regiment at the time, and dozen or more counties he can find end of scientific and practical prob- who concealed it and brought it home wirgin forests that can be bought for lems to solve. The machinery and with him in the back of his jacket, from \$6 to \$10 an acre upon which working methods of the telephonic This is probably the last Southern he can make from \$200 to \$600 per exchange are sufficiently explained flag fired at the United States troops. and illustrated in another portion of It is a small silk Confederate flag, Let us lay before our readers one this issue of the Scientific American, and still in good condition, there more example of successful farming. With the information there given one being only one small tear in it, and It is one of a hundred that can be can form some idea of the present and that was done the last day it was un-

ford Torchlight gives the facts in the tem. From the little room figured, cropping of Mr. Samuel C. Hobgood, as many as six hundred lines (with the lives a few miles from town. He an aggregate mileage of 650 miles) vorked three hands. He made 14,- reach out to the offices and homes of 400 pounds of tobacco, 150 bushels of as many subscribers in various, pasts wheat, 100 barrels of corn. 250 bush- of New York, Brooklyn, Jersey City. els of oats, and raised 3,000 pounds of Newark, Orange, and connections are porkie of ash year heartild ship tobacco ma ling or sin immediate prospec for \$2,800; "I'men as raised by two with all other adjacent towns of any hands, or \$1,400 to the hand, exclusive. New lines are being added at sive of cereals, roots, &c. If he gets the rate of five a day, and every new his usual price for his crop of 1879, wire widens the range and increases he will make more than \$1,500 to the value as every other wire in the each of his three hands employed, system. Very soon Philadelphia exchange will be connected with that o awant and then and anbsomber in either city or its sabarbs will be able to communicate directly, with any subscriber in the other. Liready from four to five thousand calls are made upon the exchange daily, during business hours, and the system has with which it seizes upon and puts to scarcely begun ato recoupy the vast field that lies open for occupation as rapidly as tolophones and connecting wires can be set up.

The limits of our space forbid any attempt even to summarize the infinite range and variety of possible telephonic communication. Its scope is as wide, as limitless indeed, as is the range of communication possible between men. Any question that a business man may have occasion to ask of another, any instruction he may wish to give to a distant subordinate any message that a boy can corry, and that may be written, falls within its province. Even at the low average of a mile for the distance between the widely separated subscribers in this city the five thousand daily communications mean five thousand miles of travel saved for somebody. And the time gained by the saving of those five thousand miles of travel means not less than a thousand hours of the most valuable portion of YELLOW FEVER-BLACK VOMI the day, an average of over an hour and a half daily to each subscriber. The increase of business efficiency due to such savings of time and trouble is cases of fever are found, causes from one to two beyond 'computation.

In its infancy, with the inertia of custom to overcome, the system has developed a capacity for growth that Some needs fear Yellow Fever who will expel the Malarial Poison and excess of bile from the blood by has distanced the expectation of the most sanguine, and its utility as well by express by the Proprietors, as its capacity for further development increases with every new wire, more especially with every new connecting link between central stations. Who, then, can have courage to predict even the immediate future of the system, or to attempt to forecast the social and commercial changes which annihilation of time and trouble, and the doing away with mediation of forgetful or erring servants, will bring in their train? Soon it will be the rule and not the exception for business houses, indeed for the dwelling of all well-to-do people as well, to be interlocked by means of the telephone exchange, not merely in our cities, but in all outlying regions. The result can be nothing less than a new organization of society-a state of things in which every individual. however secluded; will have at call every other individual in the community, to the saying of no end of social and business complications, of needless goings to and fro, of disappointments, delays, and a countless host of those great and little evils and annoyances which go so far under present conditions to make life laborious and unsatisfactory. The time is close at hand when the scattered members of civilized communities will be closely united, so far as instant telephonic communication is concerned, as the various members of the body now are by the nervous sys-

A gentleman just from Texas inly satisfactory. The next step was to Harrison's Texas brigade, composed unteers) is now in possession of John found in North Carolina, The Ox-1 prospective development of the sys- der fire .- Macon Ga. Telegraph.

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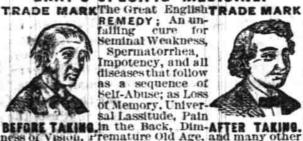
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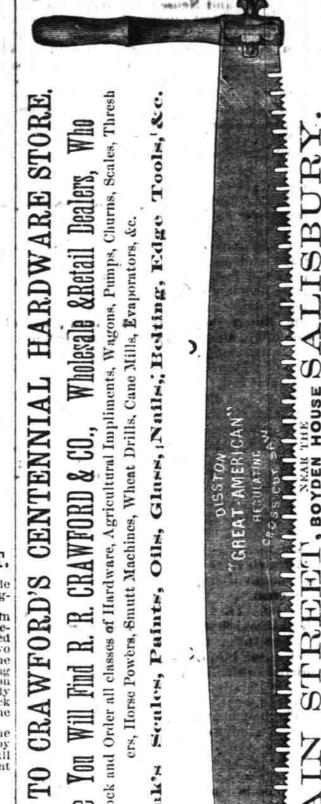
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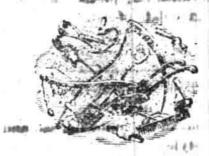
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