

FARM, FIELD AND GARDEN.

DEVOTED TO AGRICULTURE IN ITS VARIOUS BRANCHES.

It is a Mixed Fertilizer—The Advantages Claimed for Home-Mixing—The Value of Ready Made Mixtures for Those Not Willing to Handle the Raw Materials.

At the Connecticut agricultural experiment station an analysis has been made of all the samples of mixed fertilizers sent to the station this year.

The advantages claimed for home-mixing, in this bulletin, are: 1. Each ingredient can be separately examined by the purchaser, and, if necessary, sent to the experimental station for analysis.

It will be seen from the foregoing that at the Connecticut station the expediency of home mixing, in many cases, is believed in. There is no question that mixtures of raw materials can be made and are annually made on the farm, which are uniform in quality, fine and dry, and equal to the ready made fertilizers.

The report quoted from is certainly correct in the statement that intelligent farmers who understand the requirements of their own soils and crops, and who in many instances save money by mixing at home the crude materials, but, on the other hand, there are a large number of farmers who do not know what their land needs and who are not or will not spend time and money in experimenting to find out.

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THE MYSTERY OF THE SUN.

What is thought to be discovered at the following in December.

The number of astronomical parties that are preparing to go to Constantinople in the track of the total solar eclipse in December, and the completeness of the equipment they propose to take with them for observation, make the prospects for good results unusually hopeful.

The comparative infrequent opportunities for studying this species of solar phenomena, and the brief time that is available under such circumstances for observation, make such events of great importance to astronomical science, particularly as at no other time can so much evidence be obtained for determining the real character of the sun and its appendages.

Long as the science of astronomy has flourished and great as has been its advancement, it is only within a few years that the nature of the sun and its surroundings has been established with anything like certainty, and even now the mystery of the sun's activity, as well as to the character of the sun's activity, it has long been known that around the black disk of the sun in total solar eclipses a halo of light is seen.

The observations of eclipses made recently in the United States, and that of the sun as ordinarily visible to us, bounded by the atmosphere, is only a part of the sun. Just outside the atmosphere is a comparatively thin layer of gas, usually called the chromosphere, which is composed of the sun's corona, thousands of miles thick, and around the corona, especially along the equator, there is a considerable extension of matter called the solar wind.

It is not difficult to imagine, therefore, that these masses of matter starting down from a great height above the atmosphere of the sun, create great disturbances near the photosphere, such as sun spots, and that masses falling from the sun to the earth, heated atmosphere, should be broken up by the friction generated by their own kinetic energy into hot vapors, producing such expansion that the down rush is transformed into an up rush, which would carry the chemical elements back to the cooler air, where they would gradually condense again and repeat the operation of falling into the atmosphere.

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COMMERCIAL FERTILIZERS.

Conclusions Arrived at by the Director of the New Jersey Experiment Station.

In a bulletin issued by the New Jersey experiment station on commercial fertilizers, the statement appears that "manufacturers as a rule are willing to sell to farmers at a price for cash, and it would result in profit and satisfaction to both parties if this method of dealing were generally adopted."

Following are additional suggestions that may assist prospective buyers in the selection of fertilizer. The fact that any brand carries its guarantee in contained plant food, or that it bears a price, is not evidence in itself that it is better than some other brands which do not reach its claims in this respect.

Where families have but few apples, with no cider mill, they may, if they choose, still make their own vinegar by making the apples in a tub with a pounder. Then put the pomace into a half barrel perforated with holes in the bottom, and place it over another tub, as a receiver. Moisture on the top will run off occasionally, and place a follower on the pomace and press it down with stationary weights. Keep the juice in a kee, hang open, in a warm place, until the vinegar is made. By adding a little yeast, a constant supply of juice of apples or of soured fruits, made with vinegar, will keep the vinegar in a tub, or in a barrel, for a long time.

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POOR, FOOLISH MEN.

There is one thing that ought to be made a penal offense, with minimum fine of at least \$200, with imprisonment for not less than six months.

It is that of doubling the statements of a man who has been fishing. Fish have been caught ever since fish-hooks were invented. The fish were made to be caught. They rather expect it. It is no trick at all to catch fish. And yet as Jones returns from his vacation he is met and asked: "Been away?" "Yes."

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WOLF'S ACME BLACKING.

A magnificent Dress Blacking, which has been used by the best tailors in Philadelphia.

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ONE OF OUR CIVIL RIGHTS.

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IT MAKES YOU HUNGRY.

I have used Paine's Celery Compound and it has been a great benefit to me. It has cured my indigestion, and has given me a good appetite.

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BE HONEST AND CHEW FINZER'S OLD HONESTY TOBACCO.

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Dr. Pierce's Peppermint Cure.

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