One Dollar and a Half a Year.

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easily understandable by the reader yield of food.

government and the consumers.

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for the conservation of food and a cerned with securing an adequate statement by the government of a ton a non-profit seeking industry. greater crop production, a publication supply of the raw material of these definite postwar policy with regard The third major plant food is will come because the world's sweet be interesting to recall the circumjust issued by the United States Na- three substances, and the develop- to the protection of this new industry potassium, which contributes stalk tooth is filled largely by this country. stances of the first conflict of this tional Museum on "Fertilizers-An ment of a wider and more intelligent would undoubtedly speed up develop- strength and kernel filling to the The food administration tonight is nature. This combat, which was the Interpretation of the Situation in use of fertilizer, especially at this ment along these lines. the United States," by Joseph E. time when the world war endangers Nitrogen contributes stalk growth potassium before the war was the need for conservation of sugar and Parisians, M. de Grandpre and M. le Pogue, is most timely. The author certain of the supplies and at the to the plant and in animals enters great Stassfurt depot in Prussian showed the United States is export- Pique, over a lady engaged at the points out clearly and in a manner same time necessitates an increased into the composition of the proteid Saxony, and the absolute cutting off ing 18 times as much sugar as before Imperial Opera, was fought in 1808.

without technical knowledge of Phosphorus, in the form of com- in the life processes. The chief source situation in this country, and the to receive any sugar at all, Americans settle their respective differences by a fertilizers, what raw materials are pounds, enters into the structure of of nitrogen has long been sodium supply is still inadequate, though we will have to cut down their own con- duel, decided that the fight should available in this country and how plants chiefly in the seeds and fruit nitrate, obtained chiefly from the are now producing potash from a sumption, for supplies from the Bel- take place in the air. Two balloons they may best be recovered and and through them into animals. In deserts of nothern Chile, but owing viriety of sources. Chief among gian, Austrian and German fields were constructed, identical in every manufactured, and he shows definite- the latter it is an important constit- to the demand for this substance for these are the alkali lakes of the have been cut off and the Argentine detail, and on the appointed day ly what attitude should-be adopted uent of bone and is present also in use in explosives and to the high West, which have been found to be beet crop has failed two years suc- Grandpre and his second entered the by the government towards the new matter, thus being especially import- price caused by the royalty imposed relatively rich in potassium com- cessively. fertilizer industries growing out of ant to man. The basis of commercial by the Chilean government, the pounds, and another important conditions caused by the war. Dr. fertilizer is an impure compound of nitrogen question has been a prom- source is the kelp, a giant seaweed American reduce his use of sugar by the garden of the Tuileries, and Pogue explains in a general way the phosphorus occurring in nature in inent one in this country for some which grows in considerable abund- seven ounces weekly. If this were thousands of spectators journeyed theories of soil formation and of large masses and known as phosphate time. The other two chief sources ance along the Pacific coast from were done Americans would still be from all parts of Paris to witness the plant growth, and shows that under rock, of which the United States is of nitrogen are the atmosphere and Lower California to Alaska. Among using 67 pounds per capita per year, novel event. The rivals had agreed prolonged cultivation without the the world's greatest producer. coal. The recovery of nitrogen as a other minor sources is the successful whereas Englishmen are getting only to fire at each other's baloon, with addition of fertilizers the soil is ex- Among the other sources of phos- by-product from coal is a growing application of a method of recover- 26 pounds, Frenchmen 18 and Ital- the idea of bringing it to earth by hausted in respect to three of its phorus, fish scrap, cotton seed meal, industry, going hand in hand with ing potash out of the dust from the lans 12. The extent to which the the escape of gas. most important plant foods-pho-bones, slaughterhouse refuse, and a well-balanced growth of the entire flues of Portland cement plants and phorus, nitrogen and potassium. He guano are the most important, but coal products industry and to reach iron blast furnaces. The most imthen considers each of these elements the demand for these substances for its full development must expend portant question concerning this new in turn, describing the sources, avail- other purposes is fast reducing their through a gradual extension of the industry is, what will become of it ar per year. able amounts and ways of increasing availability for fertilizer. The chief uses of coke to fuel and power after the war, when the importation the output of each, and concludes producer of phosphate rock in this purposes, for the recovery of nitro- of cheap potash from Europe is reby pointing out that the best prog- country is Florida, which contributes gen is made chiefly from the by-prod- sumed? The proper solution of this States: In 1912, 83,747,751 pounds: rapidity that le Pique and his second ress in the fertilizer field will come 75 per cent. of our annual output of uct of coke ovens. The ultimate problem would seem to be a governthough enlightened cooperation be- 3,000,000 tons. Here the rock occurs source of nitrogen, however, on mental subsidy, rather than high tween the fertilizer industries, the in deposits which can be economically which the world must eventually tariff on the foreign potash, which 710,510, pounds; in 1916, 1,665,895,- terminated his voyage at a spot some worked and their positions near the depend, is the atmosphere. The three would result in higher prices to the 639 pounds, and in 1917, 1,254,551,- twenty-one miles from Paris. The soil does two things: It forms coast affords cheap transportation to practicable processes for fixating farmer and an increase in the price 280 pounds. a mechanical medium for supporting manufacturing centers. There are this atmospheric nitrogen have been of food. and protecting the growing plant, smaller deposits in Tennessee, South found to be the arc process. the In concluding his interpretation of and it supplies the plant with some Carolina, Kentucky, and Arkansas, in cyanamid process, and the Haber the fertilizer situation, the author of the chemical materials to be built 1916 a large belt of country from process. It is a significant fact that states that the responsibilities of the into its structure. In the normal Salt Lake City to Helena. Montana, as soon as the Haber and cyanamid government in this respect have not course of events, plants spring up, was found to contain a large amount processes for getting nitrogen for yet been realized. Solution of the live their course, and die, giving of phosphate rock. This field has explosives as well as fertilizer from problems should grow out of a policy back to the soil the elements employ- not yet been much developed owing the air, had been successfully deve- of anticipation, not out of a lagging ed in their life cycle. But where to the small local demand for ferti- loped in Germany, war was declared, accommodation to passing conditions plants are removed artificially the lizer and the long freight haul to the In the United States the need has One of the most pressing problems is balance is destroyed and unless the East. Phosphate rock to be made for some time been urgent to draw the development of domestic sources necessary chemical elements are suitable for fertilizer has to be treat- upon atmospheric nitrogen. Last of supply, not only that a repeittion fired the fatal shots. returned to the soil in some form, ed with about an equal amount of sul- year Congress appropriated \$20,000- of the present situation will be imis soon rendered unfit for further phuric acid, which was, until the 000 for such a plant, but it has not possible, but also that a more exten- is their duty to inform themselves cultivation. By long experience it war, obtained from pyrite imported yet materialized, presumably because sive peace-time production will be the in this regard and to increase in has been learned that those elements from Spain. Since this source has such an industry, if established outgrowth. The American public order to press and shape effective

Fertilizer Situation in The U.S. pleted are phosphorus, nitrogen and fare, the numerous small deposits of endanger the whole coal by-product potassium. The fertilizer industry, pyrite in the eastern United States industry with its far-reaching rami-In view of the present urgent need therefore, is at present chiefly con- have had a limited development. The fications, by setting up in competi-

> growing plant. The chief source of sued a bulletin showing the vital result of a quarrel between two compounds, of essential importance of this supply led to an awkward the war. If the rest of the world is

of which the soil is most quickly de- been endangered by submarine war- abruptly on such a large scale, would have an interest in this matter. It action.

Must Cut Down.

Washington, Oct. 19-Any sugar famine that hits the United States of almost hourly occurrence it may

English sweet tooth has suffered may When the baloons were some eighbe seen in the fact that before the ty yards apart and about half a mile war it received 93 1-3 pounds of sug- from the surface a signal to begin

following figures of the United which collapsed with such frightful in 1913, 47,987,761 pounds; in 1914, were dashed to pieces. De Grandpre. 72,323,615 pounds; in 1915, 581,- however continued his ascent, and

Rural Policeman Held for Killing.

gated the killing of Coroner C. A. county, and has been certified by the Scott, of Richland county, several district board of the county board. miles below Columbia is holding Ru- Recently Jerry has been living at ral Policeman J. W. Helms who was Dodson, La., but his name was drawn with the dead man at the time of his from Florence county. He stood his death, for the killing. Helms has physical examination at Dodson, and made no statement further than to has been accepted. It will be recalladmit, according to witnesses, that he ed that Jerry Moore made the world's

Fought Over a Woman.

In these days when aerial duels are

The two rivals having agreed to car of one baloon and le Pique the Mr. Hoover has asked that every other. The scene of the ascent was

firing was given. M. de Grandpre The food administration gives the sent a ball through le Pique's baloon,

Jerry Moore Goes to War.

Jerry Moore is to go into the army. The coroner's jury which investi- He has been drafted from Florence record for the best yield of corn on an acre, 228 bushels and three quart-

Orangeburg County Fair

> November 6th, 7th, 8th and 9th, 1917 ORANGEBURG, SOUTH CAROLINA

HAS OUTGROWN ITS NAME.

THE STATE FAIR FOR LOWER SOUTH CAROLINA

BIG IMPROVEMENTS.

Rest room for Ladies; remodeled Cow Barn; Better accommodations for patrons.

PREMIUM LIST.

Containing Prizes and Purses amounting to thousands are ready for distribution.

Horse races. Best and biggest Carnival Company that has ever played Orangeburg Fair, carrying fifteen paid attractions, two bands and two free acts.

EDUCATIONAL DAY.

Crowning of "Goddess of Liberty." Beautiful Floral parade.

CITADEL-CLEMSON DAY.

Citadel-Clemson Foot Ball Game. Presentation of Trophy Cup to winner by the Governor of South Carolina. Big Dance by ladies of the Dixie Club, all are big feature events.

CONCERTS DAILY BY THE SECOND SOUTH CAR-OLINA REGIMENTAL BAND OF TWENTY-SEVEN PIECES.

ARE YOU COMING? Big Free Acts to Amuse the Crowd.