

There is a farm in southeastern tematic is the work that the owner \$7,200 upon it.

Improving the Soil.

The soil of the farm is a reddish somewhat gravelly clay. So run down was it in 1881 that it did not support the two cows and one horse kept upon it. Last year it raised all the roughage for thirty head of stock, seventeen of which are cows in milk. It has been brought up to its present remarkable state of fertility solely by the use of stable manure applied directly from the barn. The system of handling this and her cows are healthy. manure is such that none is lost, either liquid or solid. No commercial fertilizers have ever been used and no mafrom that in vogue on the majority of past six years has been but \$1.50, and

Pennsylvania which the Department may leave for a week without notice this Pennsylvania farm aside from the of Agriculture considers a model twen- to the laborers, with no interruption systematic manner in which it is contieth century farm. It consists of fif- to the regular routine. The feeding ducted is the one of handling the mateen acres, thirteen of which are in of the cows, the handling of the milk, nure. The fact that the stock is cultivation, the remaining two acres keeping the barn clean and disposing stabled the year round makes it posbeing occupied by buildings, yard, etc. the manure, are all worked out under sible to save all the manure both This land came into the possession of such a system that they require little liquid and solid and apply it to the the present owner—a minister of the supervision on the part of the proprie- land. Being applied daily as pro-Gospel-in 1881 with a mortgage of tor. There is no pasture on this farm duced, any leaching by rains, carries is not a good practice, for it has been tory. supposed that milch cows need a cer tain amount of exercise, yet it must be considered that the Danish cows stand in their stalls from November to May and are staked out in the field from May to November, and yet Den mark ranks high in the dairy industry

Balanced Rations a Necessity. Notwithstanding this extraordinary nure has been hauled from the city. practice the bill for veterinary services is a practice greatly differing on this Pennsylvania farm during the

Farm Buildings and Silos. Applying Manure to the Land.

the farms of this country, where the this was made necessary by an acci- ing, fruit-growing, etc., and of which what followed delighted them the farms of this country, where the this was made necessary by an accipant of the place had only owner seeing a dollar in sight for a dental injury to one of the cows. One load of manure readily sells it to a regular breeder is fifteen years old, but neighbor rather than apply it to his is still vigorous and healthy, giving where its value might be milk enough to make it profitable to three or four times as great. On the local dental injury to one of the cows. One nearly 250 have been published, are by all odds the most popular of the Departments of Publications. They are brief, written in simple style and discuss subjects near to the heart of the agriculturist. Many of them have

consistency. Thenceforward the man-iniling the silos. agement of the constantly growini. The proprietor of this farm has not berd of cows was a simple matter and adopted any systematic rotation of the farm began not only to pay a profit crops, as every foot of land receives an but to increase in fertility, so that abundance of manure every year or within seven years the entire mort two. There is but little trace of weeds gage was paid off.

milk and a few head of young cattle year not only to produce all the rough-each year. The cows are all registered age required for thirty head of stock Jerseys except one or two picked up at but to have left nearly 4,000 pounds of heighboring sales. They are not only hay, which was sold.

pure bred but well bred. Male calves,
if worthy of it, are reared for breeding

The remarkable views. purposes, but none is ever vealed. If a male calf is not fit to raise for a breeder it is killed at birth. "It doesn't pay to feed \$18 worth of meal calf and breeder it is killed at birth."

The remarkable yields on this farm chief and editor of the Division, Mr. Joseph A. Arnold, whose knowledge of the practical side of Agricultural tons prescribed by the doctor.

Of course the principle use of the doesn't pay to feed \$18 worth of meal to a calf that will sell for \$7," said the owner. The young cattle sold from this farm bring on an average \$100 apiece, and about five are disposed of each year.

The milk is all sold at 25 cents a gallon the year round to a State institution located two miles distant. The milk tests high, is perfectly clean and free from adulteration. There is never milk is drawn it is placed in perfectly clean cans standing in cold water some distance from the barn and stirred frequently to aerate it and aid the cooling. The milk vessels are never allowed to stand around uncleaned, but are washed as soon as the milk is removed, first with cold water, then with boiling and finally again with cold water. The amount of milk produced from the saventeen cows is nearly the same at all seasons and averages about twenty-six gallons a day. While this year for each of the seventeen cows grass lands. kept is not enormous, by any means, it is good. The income from the milk

model farm in Pennsylvania most of Department of Agriculture state that the agriculturist. Many of them have the crops are fed to the stock and thus they have never seen a thriftler, better largely return to the land in manure, kept lot of cows. Balanced rations are the longer and more technical bulle-Upon assuming management of the fed to them every day in the year, con- tins, setting forth the results of extarm the owner with no previous ex-perience in farming began to read silage in winter, and rye, timothy and 000,000 copies of these popular bulle-the same box." The masterpieces of what agricultural literature was avail- clover, corn or peas and oats in sumable. One of the first books secured by mer. A second portion is made up of him was Quincy's little treatise on the dry hay or fodder, which gives some soiling of cattle, written in 1859. Soil- consistency to the manure. The third ing consists in cutting and giving portion consists of meal products, of green feed in summer instead of allow- which three kinds are used-bran, oilng the animals to run on pasture. meal and gluten. Many dairymen This system adopted by the farm would be surprised to learn that every where did not prove satisfactory the cow on this farm has four ounces of first year because no other feed was alt daily, mixed with her fodder, fine ased and the cows did not do well. In addition the manure was difficult to handle and it was not easy to keep the the council of the council o barn clean. Before the next season, each ten feet in diameter and thirty-however, the new farmer had procured four feet high. These altogether hold about 100 tons of silage and this quantrom it learned his first lesson in tity of corn silage is produced on four 'balanced rations." He also learned acres, planted on June 22nd. Eleven to feed some dry hay with the soiling men, three teams and a traction encrops, thus giving the manure a proper gine to run the cutter are employed in

and those that do grow are not of the The farm is strictly a dairy farm, undesirable kind. Intelligent methods the only products regularly sold being of cultivation enabled the owner last

Handling the Manure.

manure produced on their farms. On this model farm every particle of the plant food is utilized. The method of handling manure in this case can be used only on farms on which stock is kept in stalls and is therefore not applicable to all styles of stock-farming. Behind each row of cows is a gutter, eighteen inches wide and seven inches leep. These gutters have no outlets. They are thoroughly cleaned daily any complaint from the buyers; on the other hand, this farmer is considered a week by a free use of creokine, and a week by a free use of creoline, and a public benefactor. As soon as the the interior is frequently whitemilk is drawn it is placed in perfectly washed). When cleaned, the gutters twenty-six gallons a day. While this it is spread on the rye and grass fields. yield of approximately 4,800 pounds a No manure is used on newly seeded

This is the experience of a ploneer This is the experience of a ploneer farmer starting in with no previous training, but going to work in a methodical manner to learn what he could from the experience of others. He has applied principles and business methods and has blazed a path into a the farm except in hay harvest and during the cutting of silage, So sys-

pends on the soil and the man who has the management of it. It cannot be done by one who is not a student. A similar system may be developed on any dairy farm that disposes of pas-tures. Where land is cheaper and the dairyman can afford pastures, the system would be radically different in summer but not in winter. Probably the most important single feature of for pastures on such high-priced land the leached materials into the soil are out of the question. There is not where it is needed. The remarkable even a barn lot, the thirty head of yields of every portion of this farm cattle remaining in the stalls the year seem to indicate that this method of round. We have been taught that this handling manure is highly satisfac-

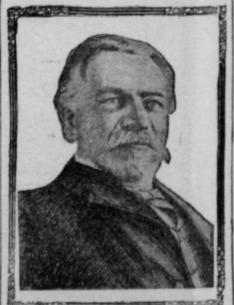
A BIG EDITORIAL OFFICE.

The Department of Agriculture Publishes Over Four Booklets for Every Day in the Year.

One of the biggest editorial offices in the Government and probably in the country is in the Department of Agriculture where the Division of Publications edits, revises, and some cases returns to the authors for rewriting an average of four bulletins or books for every day in the year. During the last fiscal year 1,-463 new publications passed through editor's hands, nearly 400 of these, however, being issued by the Weather Bureau, which is under the Department of Agriculture. The total number of copies of the remaining 1,000 odd publications printed during the year was 12,000,475. Many these are generously illustrated, A and beside the great number of original photographs used, the artists of the Department make something over 1,000 drawings a year for illustrating. 'Editor" of the Department as he is known, is Mr. George William Hill, position for many administrations.

There have been very many radical changes," said Mr. Hill, "in the publications of the Department within the last ten years. At one time, the Agricultural Reports and other pamphlets and bulletins issued were more or less technical, having the reputation generally throughout the country, of being written in about as dry and uninteresting a manner as postinually impressed upon his Chiefs of thereupon pervaded the features of the Divisions the desirability of short, crisp result that the Publications of the Department have come into very general favor with the farmers and are eagerly sought after, which is evident by the enormous number of requests for them."

The Farmers' Bulletins, descriptive of all sorts of farm work, stock-rais-



GEORGE WILLIAM HILL, Chief of the Publication Division, Department

of Agriculture. tins were published and distributed last year. An active factor in the cultural Publications is the assistant

The storage and distribution of this printed matter constitutes a large tient, who, imagining himself and important part of the Publication | calls in his family physician, and the

work of the Department, "I cannot ter of the disease or where they have FREE BOOKS believe that the farmers of the country as a whole appreciate what a splendid mine of agricultural information exists in these farm bulletins, which they can have for the asking.



JOSEPH A. ARNOLD, Editor, Department of Agriculture.

They cover every practical subject and would make an exceedingly valuable farm library. Bound together they would form several large volumes prepared by the best agricultural experts in the country and the result of the widest and most extensive scientific farm experiments ever made.

KING ALFONSO'S SHOPPING.

Paris Millinery Shop Startled by Visit From the Spanish King.

An amusing anecdote is related in connection with King Affonso's recent visit to Paris. In his leisure moments The head of this Division, or the he was fond of taking a turn in the Rue de la Paix, which is noted for its elean old-time editor of an agricultural paper, but he has held his present prosition for many administrations.

His majesty's appearance naturally created a good deal of flutter, especially among the demoiselles de magasin, who rushed to doors and windows to see him go by, so when three gentlemen stepped into a certain establishment one morning and the most youthful of the party asked to see some hats they were politely requested, as the most natural thing in the world, to wait a moment, as the king was in the street, and the girls were all watching for him. The knowing smiles which little party had the effect of promptly articles and bulletins, especially in putting the quick-witted shop girls on the scent. After announcing the great practical and simple style, with the news excitedly to the proprietor of the establishment they clustered in a ring round King Alfonso and his compan-

This was a thousand times better than a peep into the street, and then, what an honor! Only to think of the Spanish sovereign walking in such simple fas'iion into their shop. And been condensed and rewritten from to see some hats. I want three; one for my mother, in rather a quiet style; one for my sister, and one for my aunt, the shop were presented and inspected. The selection of the three hats took some time, as the young king is not ac customed to that sort of work, and in his dilemma he exclaimed: "Well, I was never so puzzled in my life!" Finally the choice was made, and with the request that the hats should be sent at once to the hotel, King Alfonso took his departure, leaving the mistress of the establishment and her young women charmed with their experience.

A NON-PATENTABLE MEDICINE.

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What is the most important remedy known to the medical profession? A guessing contest might be established upon this question which would doubtless bring to the fore a great variety of remedies, yet, as stated by a very successful practitioner, there is one medicine given to patients which physicians find more important than any other. Strange to say, this is the quite universal and ineffective "bread pill," which, after all, is not bread, but only so-called on account of its harmless nature. The bread pill is sometimes nothing more than a plain sugar pellet, at others, where a liquid prescripenormous work of editing the Agri- tion is given, a weak solution of sugar and water, or a mixture of powdered

Of course the principle use of the "bread pill" is in the case of a pa-



THE 3-YEAR-OLD DAUGHTER OF A 15-YEAR-OLD JERSEY.

not developed sufficiently for him to determine the true nature of the case. In this event he does not wish to display his ignorance or what in reality may be but an apparent lack of knowledge, since at some stages it is impossible to accurately diagnose a case; but a frank admission of this kind Nitrate Propaganda, Anderson Beilding, New York would destroy the patient's confidence in his physician. And so at this juncture the "bread pill" steps in, is given to the sick person, with no apprehen-

sion of any harm resulting therefrom.



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