

pipe and extends from the top of the tank to the sink. If only the kitchen system without the attic tank is used, this pipe is left open to provide for expansion. With the faucet closed and the globe valve open water is pumped into the tank. When cold water is desired the globe valve is closed, the faucet opened and the pump is worked.

<sup>°</sup>AGE VS. PRODUCTION It is generally considered that a high producing dairy cow will wear out more quickly than a low pro-ducing cow. Generally speaking, this is undoubtedly true. However, it does not hold in all cases. One Holstein cow, for example, pro-duced 23,000 pounds of milk and 900 pounds of butterfat in her 16th year. Few cows reach that age and fewer still, of course, of high pro-ducing cows can keep up high pro-ducing cows can keep up high pro-duction for such a long period of duction for such a long period of time. To a certain extent age is undoubtedly affected by methods of feeding. If a high producing cow is always fed a well balanced ration and is given enough to maintain and is given enough to maintain her body in perfect condition, there is apparently no reason why a high producer should not live as many years as a low producer. Fourteen years ago there wasn't a single cow in any breed of cattle that had pro-duced as much as 30,000 pounds of milk in a year. Today the Holstein breed alone has 100 cows that have produced that much milk or more in a year. Other breeds also have large numbers of cows that have produced the same amount of milk or at any rate as much butterfat as 30,000 pounds of Holstein milk would normally contain. While high milk production does not derend milk production does not depend solely on the ration fed, as everyone knows, feed has a great deal to do with it. The ability to produce is a quality that is inherited, hence breeding must never be neglected in building up a high producing herd. But no matter how well bred a cow may be, if she is not given the amount and kind of feed that is amount and kind of feed that is required to produce a high milk and butterfat yield, it is impossible for her to do so. A cow can produce milk only out of the feed she con-sumes above that required for the maintenance of her body. The age a cow may attain is not necessarily cut short because she is being fed for high production, as is shown by the fact that the hundred cows, mentioned above, which have recmentioned above, which have rec-ords of 30,000 pounds of milk a year, range in age from 3 to 11 years. GIVE HENS PLENTY LIGHT Careful tests extending over a 4-

year period at one agricultural ex-periment station show that expo-sure to direct sunlight during the winter months is desirable, but not essential to egg production, pro-vided the hens have access to re-flected sunlight; also that exposure to direct sunlight at intervals of 10 days or even longer will enable healthy hens to keep up a good rate of production and will insure eggs that will produce strong,

leggs that will produce strong, healthy chicks. If deprived too long of drect sunlight, hens are likely to suffer a complete break-

SENSIBLE CO-OPERATION

hasn't been using fertilizer much.

hasn't been using fertilizer much. You want to put some on your land. You know where to get it; hauling is no problem; but how can you get it on the land? You can buy a fertilizer spreader, of course, but you'll only use it a few days in the year. It seems a waste. The same problem comes up with ter-racing machines, and a dozen other tools that may be badly needed, but that are used only for short periods. How can a farmer get the results he wants without tying up too much

wants without tying up too much money in little used machinery? Group action is obviously the an-

Suppose you are in a section that

year period at one agricultural ex-

Installed under the tank to take care of "sweating." If there is dan-ger of the tank freezing, one-half inch of insulation may be used around it. If necessary the tank may be disconnected in the winter and the pump pressed into service again. Since this is a low pressure system the pipes should not be larg-er than designated. down, fall off sharply in egg pro-duction, and such eggs as are pro-duced will contain embryos so weak that they will not hatch. Even a few hours in the sun or in reflected sunlight on mild down during the sunlight on mild days during the winter will prevent serious conse-quences. These results would seem to indicate that we may perhaps have been placing too much atten-

tion in our poultry and hog houses to the proper location of the win-dows so as to have the direct sun-light fall in the pens; and that per-haps better results would be se-cured by heaving more minder haps better results would be se-cured by having more window sur-face; to have them covered in win-ter with glass or fabric that will ad-mit the ultra-violet rays shut off by common glass, and then to keep the rafters, walls, partitions, and other interior parts well white-washed or painted so as to reflect and spread the sunlight as effi-ciently as possible. For example, it has been definitely proved that the addition of a straw loft to a poul-try house helps very materially in controlling the temperature and at the same time largely solves the moisture and ventilation problem, and already many experiments are under way for applying the straw loft to hog houses, apparently with very satisfactory results. The high monitor and half monitor poultry houses, facing the south and with the windows up high above the floor are the ones most in need of the straw loft method of tempera-ture control; but mutting in a cond the straw loft method of temperature control; but putting in a good straw loft cuts off the direct sun-light from the floor. This value of reflected sunlight, however, may mean that the sunlight can be ad-mitted lower down and mitted lower down and spread by whitewashed walls and pens, and the straw loft thus made possible. At least, it is something for our poultry and swine experts to con-sider very seriously.

### **ROOSTS AND NESTS**

When the spring hatched flock of pullets is put in the laying house for the winter we should keep in mind that 3 to 4 square feet of floor space for each hen, even though it is the usual recommendation, is a rather dense population. Because of this we should give considerable attention to the sanitary conditions of the floor. The best method of keeping the floor and litter reasonably clean is to put a solid board platform about 8 inches beneath the roosts. This part of the equipment is worth many times more than its cost in making it easy and convenient in removing the droppings, and in keeping the floor clean. Production is increasing in well managed flocks. One should make sure of enough nests to accommodate the number of hens, as also their rate of production

swer here. Sometimes two or three neighbors go together to buy a tool; sometimes a larger group, perhaps a threshing ring, buys the equipment. In one county, some business men bought machines and rented them to farmers at cost. The local co-opera-tive could do the same; so could any other local farm organization. There is a good deal of modern machinery that is built to handle the work on a farm of 1,000 acres or more. Small farmers need it, but can't afford to own it. The more ready they are to plan for co-operative ownership of such tools, the less they will need to worry about the menace of the cor-poration farm poration farm

tinuous rese covery and development of the structural principles of the electron, proton and atom, the smallest units of matter, as the fruit of his labor.

(International Newsreet

## **Nominated Chief** of Army Chaplain.



Lieut.-Colonel Julian E. Yates whose nomination as chief of chaplains of the U. S. Army with the rank of colonel, was sent to President Hoover. If he is named he will succeed Col. Edmund P. Easterbrook, who retires Dec. 22. Col. Yates was born in 1871. His army service began in 1902 when he was appointed a chaplain with the rank of captain. He saw service in the Philippine Islands for two years after entering the army.

(International Newsree!)

## The Other Woman In Chicago Triangle,



Mrs. Dorothy Schwinefurth-Lang-ley, of Chicago, "the other woman" in the fatal shooting of Morris Leeney, 39, by his wife, Mrs. Florence Leeney. Mrs. Leeney shot and killed her hus-band as an answer to his demand of "what she was going to do about his running around with Mrs. Langley," who incidentally is a cousin to Mrs. Leeney.

John J. Gibson, vice-president and executive head of the new West-inghouse Electric Supply Comnghouse Electric Supply Com-pany, which will begin operations January 1st with units in sixty cities. Through its branches ex-tending from Bangor, Maine, to San Francisco, the company ex-pects to do a total business of \$60,000,000 in wholesale electrical supplies supplies.

Conkey P. Whitehead,

millionaire

New York and Atlanta sportsman,

familiarly tnown as "the Playboy of the Caribbean," in

a snapshot

taken on his yacht some

time ago with

Frances Porter, the showgirl with whom he had

an extraordi-

nary romance

wo years ago. He married

Miss Marian

Hughes, noted

sportswoman and tennis

enthusiast, in New York. (International Newsreel)

(International Newsreel)

Millionaire Weds Sports Woman

**Hero of Prison Riots** May Be New Warden

of huge quantities of

seed from

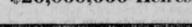
abroad.

(International Newsreel)



Captain Stephen A. McGrath, com manding officer of Troop D, Nev York State police and ranking cap tain of the State police, is consid-ered a likely candidate for the post of warden of Auburn, to suc ceed Warden Edgar S. Jennings ceed Warden Edgar S. Jennings McGrath, who was regarded as a hero of both riots among the pris oners recently, is believed to full-fil Governor Roosevelt's demand for a strict disciplinarian to govern the institution.

## **Housemaid Wife** \$20,000,000 Heiress





Mrs. Frank Savin, of New York, who has inherited an estate of \$20,000,000 from her husband, whose housemaid she was three whose housemaid she was three years ago. Following service in the household of the retired Port-thester broker, Mary Schleis be-came Mrs. Frank Savin, and, upon the death of her husband a few days ago, succeeded to an estate walued at \$20.000.000.



# Pair of Pretty "Tars"

Left to right, Misses Julia Norkus, 18, of

South Boston, Mass., and Phyllis Conreau, 18, of Quincy, Mass., dressed in sailors' uniforms, in which they were held by police of Charlestown. Girls said they had attended a party with two sailors, who handed over their suits and dared the girls to walk about the streets in them.

(International

