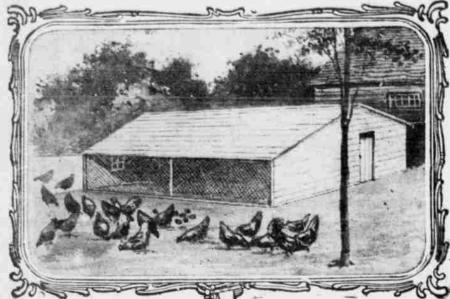


South of the Virginia line and on to poultry, and stock of all kinds, the the Gulf in the Atlantic States of presence of which always enriches and this country can be found about the fertilizes the soil, providing that care same climate as is prevalent along and attention be given to the eco- a good hatch from a setting of eggs, the Pacific coast south from San Franthe Pacific coast south from San Fran-cisco. The State of California and the agricul-tural interests of California began a number of years ago a determined ef-fort to colonize that section of the poultry interests for the elevation of studied at a number of the experiment born until I sell them." world with poultry growers, No its people through an increased in-stone was left unturned to make this come enabling the State to have bet- where. effort successful; the railroads, the ter schools, better education, better state statisticians, the agricultural homes, and to better improve their and overfeeding as well as a cold sea- raisers; and this is a branch of farm-



POULTRY BUILDING SUITABLE FOR SOUTHERN CLIMATE.

Mountains.

tioned line. If the people in these districts, individually, locally and na-tionally, would take hold of the upbuilding of the poultry interest, of the growing of all kinds of land and water fresh-laid eggs in whiter, it would not be many years before the fields of the South would bloom again as in the olden days when cotton was king, and when the planter of these districts rolled in wealth enjoying the distinguished attitude of being envied by. all mankind.

The modus operandi to be pursued in connection with the poultry industry is extremely simple, and the only wonder is that it is not more generally carried out. It appears, however, to need the energetic work of one or two men in each community to demonstrate to the surrounding farmers the advantage and profit in employing up-to-date methods. The barnyard flock can within a short The

cisco and the Pacific Coast are being ign of the localities from which they supplied with the finest quality of came. Nothing should be more loudly



used are those from vigorous parent stock, known to produce a high percentage of fertile eggs, while in order o secure a great percentage of fertile eggs the hens should be allowed a rest after each laying period. The sgs should be handled very carefully and net subjected to extremes of temperature in storage, and used only chen comparatively fresh.

As a whole it may be said that the ordinary conditions prevailing on the farm as a rule favor the production of eggs of high vitality. The keeping quality of eggs is a very different mater from fertility, as it is the general ellef that infertile eggs keep better than fortille.

Keep the Animals Warm.

"How do you manage to alway: keep cattle looking so sleek and fine, was asked of a successful stock raiser. "Why, I keep them comfortable,"

And this is to a great extent the

ecret of success in stock growing. Too warm quarters for laying stock The best farmers are the best stock department and the people kept it lands. Only a short time since there son are commonly believed to exer- ing that always wins in the long run. rise an unfavorable influence on egg If you can raise all the rough feed fertility. The way eggs are handled or stored is also believed to affect the prepertion which will hatch, as well as the conditions under which incuba-tion occurs. The vigor and character of the stock to do this. Better buy of some tess fortunate neighbor who has more feed than stock. There are other of the parent stock and the length of things beside feed, too. Have you time the male bird has been with the seen cattle and horses humped and flock are also important. At the out-flock are also important. At the out-set, officials of the Department of Agriculture wish it distinctly pointed out that fortility and "hatchability" are not necessarily identical. An egg dition and imagine how you would like may be fertile and the germ still not it! It is difficult to see how some men have sufficient vitality to produce a healthy chick under the ordinary conditions of incubation.

In a series of incubator experiments and perhaps half-fed all night. Such at the Rhode Island Station, of 8,677 a man's feelings night be pretty well eggs tested, 83 per cent, were found blunted. It doesn't pay in dollars and to be fertile, while only 46 per cent of cents, either. Now, it doesn't cost the fertile eggs, or 38.6 per cent, of the much to fix up a comfortable shelter total number of eggs, hatched under the conditions of the tests. Experi-ments made at the Maine Station showed that there was as great varia-cold, it is a clear case of shiftlessness, tion in fertility as in the total yield But every year there are fewer and or inferent hens some producing eggs fewer of the shiftless class, that were all highly fertile and others

affoat, until California has become one of the largest poultry producing states of the country, and San Fran-ing for national aid to the upbuild-varied greatly in this respect at dif-claims made by many of the circulars ferent times. The observed facts advertising those widely heralded bac seem to show that while a heavy egg teria for inoculating barren soil, which fresh-laid eggs and poultry of all kinds produced at home-a supply which of this country than government aid ed the hens are allowed to rest before ied the United States Department of

The Fertility of Eggs.

In considering the possibilities for



The Telephone on the Farm. He sits by his hearth and sells his cotton when it reaches 11 cents because his samples are stored in the town, even though his cotton is at



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time and at a very small expense, be bred up from an average of 60 or 75 eggs a year to a production of 125 or 150 eggs per hen, constituting the difference between a loss and a handsome profit from the flock. All it is necessary to do is to decide upon some suitable breed of fowl and infuse new By this **the**ns not only can egg produc-tion be increased but, if a general purpose breed is selected, a great average increase in the weight of the fowls will be absolutely assured.

In connection with this, nothing could be more profitable to handle than the growing of fruits and market stuff throughout the entire South. Two other features of great value might easily be added; that is, cultivallag squabs for market and keeping hees for the production of hon-y and bees-way. In the local market bees-wag sells now for almost 40 ecuts a pound. In the southern 101 warmer climites where winter feeding would not be of long duration, the cultivation of bees for bees-wax alone would begaine a prostable vocation. emmn if the extracted loney were distributed among the neighbors as a gratuatous compliment from the growers of the bees. But the bees must honey-combs, to facilitate which, as

well as to have a larger product of sees-war, the boxes for receiving the honey should be so constructed as to influence the formation of a inruamount of honey-comb or bees-war in ofecones to honey.

If these matters were earnestly taken hold of by the agricultural departments in every Southern State the expenditure of public money and pushed as they should be, with a such a "ridiculous document."



A MISSISSIPPI POULTRY RANCH.

determined effort to aid the upbuild-this he would greatly err. There is ing of all these interests throughout scarcely a bulletin, it is said by memthese sections, greater wealth would bers of Congress, that is in so great be added thereto through the enrich ment of the soil, as the natural re-suit of growing of more cattle, swine, Turkeys." suit of growing of more cattle, swine, | Turkeys."

WHITE AND BARRED PLYMOUTH ROCKS AT BILTMORE, N. C.

Ten millions of dollars or more, prop- (a study of the effect of the presence erly expended each year through the medium of agricultural colleges and Leghorn hens which had previously departments throughout the states, would be a valuable investment by the blood into the flock each year by the im- National Government for the entire portation of a reasonably well-bred cock, institut, provided these influences tendnation, provided these influences tended to upbuild the agricultural and ive-stock interests of the South; to each the growing communities how to care "or their lands and their homes in a manner that would return to the

coll its former richness, and to make he products of the ground increase and multiply and enrich the people. But nothing could be more unfortunate for any locality than to have sums of money voted to that purpose and have it made use of for political advancement and the aid of classes rather than the masses.

Fowl Bulletin in Demand.

Of the making of Government documents there is no end. This, too, although the President has forcibly expressed the opinion that the literary output of the departments could be cut one-half. But there are bulletins and builetins,

The Tapeworms of American Chickens and Turkeys," prepared by B. H. Ransom, B. Sc., A. M., Actin Zoologist, Bureau of Animal industry is one that a city chap might classify s a useless publication. Even though idual who often mistakes cooked

yeal for chicken would not sanction for In

at time under the cow-lot shed. He earns when he comes from the field

at noontide, that the car-load of seed potatoes ordered by hem and his neighbors has arrived and he goes to of the male bird on egg fertility. Forty town immediately for his own share. and by phone agreement, hauls home



POULTRY, BEES AND FRUIT ON A SOUTHERN FARM.

in pens with three male birds and the | for enough money to pay for his phone percentage of fertile eggs observed for service that year. With a telephone nine days after mating. This in- in his home, the farmer has the world creased regularly from O on the day where the wool is short. He has a of mating to 95 per cent, on the eighth day after mating. The fertility of the eggs was apparently not materially affected until the twelfth day after re- corn he must have for immediate "the important subject of tapeworms moving the roosters. This point was planting, as he has been advised by also studied at the Ontarlo Agricul-telephone of its arrival by express, so attention in this country" the indi-The hens were separated from the going into town to buy bacon, to bring male and the eggs laid each day were the seed corn out to him. That is betplaced in an incubator and tested with ter than stopping a three-horse plow respect to their fertility. Of the esga for a half day. At night he inquires laid during the first four days after the of a neighbor over the phone, how he

male was removed, 70 per cent, were is pleased with the improved double fertile; of those laid on the fifth day, row corn planter, and he learns that 61 per cent; on the sixth, 60 per cent; it is the correct thing, so he orders on the seventh, 49 per cent.; on the one to be delivered the next day from eighth, 12 per cent; on the ninth, 2 his nearest implement house. It ar er cent. and on the tenth, all were rives and saves 50 cents a day in infertile,

The influence of the male on the son. His wife calls up her cousin, total number of eggs produced was also tested with two lots. Lot 1 con-pleasant chat about all the doin's of sisted of 5 pullets, 5 hens, and 1 cock lot 2, of 5 hens and 5 pullets of the present at the last social, which she same varieties as lot 1. Both pens was unable to attend, and she is satiswere fed and cared for in the same fied. The phone is a verifable money way.* Lot 1 laid 959 eggs and lot 2, maker, and social satisfier in the 972 eggs. It may thus he seen that rural home. It is a builder of sothere was but very little difference in ciety, an insurance against violence the number of eggs 'aid by the two and an ever present help in case of ickness.

Ideal Conditions for Fertility.

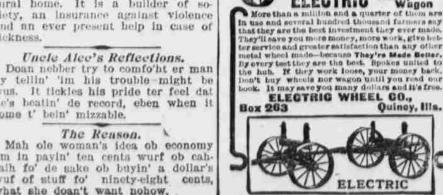
The various observations made at different stations, while not entirely by tellin' 'im his trouble might be onclusive, seem to indicate that, in wus. It tickles his pride ter feel dat rder to secure fertile eggs which will he's beatin' de record, eben when it

natch, it is considered desirable for come t' bein' mizzable. the laying stock not to be kept in very warm quarters or overfed; the males must be kept with the hens continuously and only eggs used which have am in payin' ten cents wurf ob cah-

labor for ten days of the planting sea the last two days; finds out who was

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