

cisco. The State of California, the people of California and the agricultural interests of California began a number of years ago a determined effort to colonize that section of the poultry interests for the elevation of with poultry growers. No stone was left unturned to make this effort a registration of the stone was left unturned to make this effort a registration of the registration of the registration of the stone was left unturned to make this effort a registration of its people through an increased increased in the unturned to make this come enabling the State to have better efforts agreed the factors affecting the fertility of eggs are of great value in the poultry in dustry, this question having been studied at a number of the experiment stations in the United States and else where.

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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 Fran- nomical saving of the manure and a the fertility of the eggs used is of clsco. The State of California, the proper distribution of it over the land. prime importance. Data regarding the effort successful; the railroads, the ter schools, better education, better state statisticians, the agricultural homes, and to better improve their department and the people kept it lands. Only a short time since there



POULTRY BUILDING SUITABLE FOR SOUTHERN CLIMATE.

supplied with the finest quality of came. Nothing should be more loudly supplied with the finest quality of the fresh-laid eggs and poultry of all kinds applauded and approved by the people produced at home—a supply which of this country than government aid the hens are allowed to rest before led the United States Department of the formerly came from east of the Locky properly applied throughout the South-they begin to lay again, infertility is Agriculture to issue a warning to the Mountains.

We note this for the benefit of the applied as to make the people more laying long and heavily. states lying south of the above men-industrious and to add to their wealth. The Ohio Experiment tioned line. If the people in these districts, individually, locally and nationally, would take hold of the upbuilding of the poultry interest, of the growing of all kinds of land and water growing of all kinds of land and water fowl for market and the producing of fresh-laid eggs in winter, 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

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, owever, to need the energetic work demonstrate to the surrounding employing up-to-date methods. The barnyard flock can within a short 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 tion be increased but, if a general purpose breed is selected, a great average in-crease in the weight of the fowls will be absolutely assured.

In connection with this, nothing might easily be added; that is, cultivating squabs for market and keeping bees for the production of honey and bees-wax. In the local market, bees-wax pells now for almost 40 cents a pound. In the southern or warmer climates where winter feeding would not be of long duration, the ments there is no end. This, too, cultivation of bees for bees-wax alone although the President has forcibly would become a profitable vocation, expressed the opinion that the litereven if the extracted soney were dis- ary output of the departments could tributed among the neighbors as a be cut one-half. But there are bullegratuitous compliment from the grow- tins and bulletins. ers of the bees. But the bees must influence the formation of a large

these matters were earnestly taken hold of by the agricultural de- veal for chicken would not sanction

affoat, until California has become one | was a gathering of representative of the largest poultry producing business men from the South lookstates of the country, and San Francisco and the Pacific Coast are being ign of the localifies from which they



would be a valuable investment by the blood into the flock each year by the im-portation of a reasonably well-bred cock. By this means not only can egg produc-ed to upbuild the agricultural and ed to upbuild the agricultural and live-stock interests of the South; to teach the growing communities how to care for their lands and their homes in a manner that would return to the soil its former richness, and to make could be more profitable to handle the products of the ground increase than the growing of fruits and market and multiply and enrich the people. stuff throughout the entire South.

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 docu-

"The Tapeworms of American be compelled to build their own Chickens and Turkeys," prepared by honey-combs, to facilitate which, as B. H. Ransom, B. Sc., A. M., Acting well as to have a larger product of Zoologist, Bureau of Animal industry bees-wax, the boxes for receiving the is one that a city chap might classify honey should be so constructed as to as a useless publication. Even though "the important subject of tapeworms amount of honey-comb or bees-wax in of poultry has received but little preference to honey.

amount of honey-comb or bees-wax in of poultry has received but little attention in this country" the individual who often mistakes cooked



determined effort to sid the upbuilding of all these interests throughout these sections, greater wealth would be added thereto through the enrich ment of the soil, as the natural rement of the soil of the males warm quarters or overfed; the ma

The Fertility of Eggs.

are those from vigorous parent stock known to produce a high per-centage of fertile eggs, while in order

to secure a great percentage of fertile rest after each laying period, The eggs should be handled very carefully

and not subjected to extremes of tem-

perature in storage, and used only

As a whole it may be said that the ordinary conditions prevailing on the

farm as a rule favor the production of egge of high vitality. The keeping quality of eggs is a very different mat-

ter from fertility, as it is the general

belief that infertile eggs keep better

Keep the Animals Warm.

"How do you manage to always keep cattle looking so sleek and fine,"

The best farmers are the best stock

The extravagant and misleading

nitrogen the bacteria do little good.

when comparatively fresh.

than fertile.

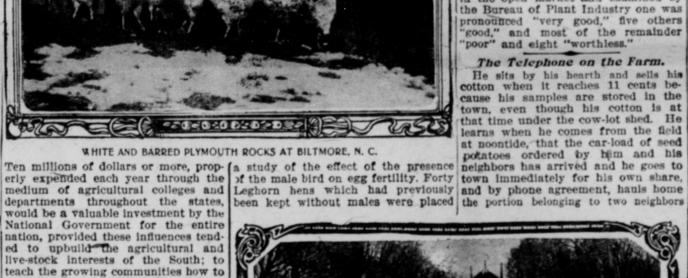
In considering the possibilities for

Too warm quarters for laying stock and overfeeding as well as a cold sea- raisers; and this is a branch of farm son are commonly believed to exer- ing that always wins in the long run cise an unfavorable influence on egg lif you can raise all the rough feed fertility. The way eggs are handled or stored is also believed to affect the proportion which will hatch, as well stock to do this. Better buy of some as the conditions under which incuba- less fortunate neighbor who has more tion occurs. The vigor and character 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- shivering, day after day, through the set, officials of the Department of worst part of the winter? Do you Agriculture wish it distinctly pointed think that those animals were comout that fertility and "hatchability" fortable? Picture yourself in that conare 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 can crawl into a warm bed at night healthy chick under the ordinary con- and sleep soundly until morning, ditions of incubation. while their live stock stand half frozen

4 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 must 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 the much to fix up a comfortable shelter total number of eggs, hatched under for stock, when old hay and straw the conditions of the tests. Experiments made at the Maine Station a man lets his stock suffer from the showed that there was as great varial cold, it is a clear case of shiftlessness. tion in fertility as in the total yield But every year there are fewer and or different hens some producing eggs fewer of the shiftless class. that were all highly fertile and others that were completely infertile, and, Use of Nitrogen Bacteria Limited. furthermore, that eggs of some hens The extravagant and misleading varied greatly in this respect at dif- claims made by many of the circulars ferent times. The observed facts advertising those widely heralded bac eem to show that while a heavy egg|teria for inoculating barren soil, which

aying long and heavily.

The Ohio Experiment Station made If the ground is already naturally in-





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 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 down-hill pull. On the next day he day after mating. The fertility of the is too busy to send a horse to town, eggs was apparently not materially af four miles away, for a bushel of seed fected until the twelfth day after re- corn he must have for immediate moving the roosters. This point was planting, as he has been advised by also studied at the Ontario Agricul- telephone of its arrival by express, so tural College and Experimental Farm. he pays a thriftless neighbor who is 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 eggs 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 doublefertile; 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 arper cent. and on the tenth, all were rives and saves 50 cents a day in labor for ten days of the planting sea-

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 maker, and social satisfier in the 972 eggs. It may thus be seen that there was but very little difference in the number of eggs 'ald by the two maker, and an ever present help in case of

Ideal Conditions for Fertility.

The various observations made at different stations, while not entirely conclusive, seem to indicate that, in order to secure fertile eggs which will hatch, it is considered desirable for 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 a main payin, ten cents with the content of 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 a main payin, ten cents with the content of 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

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 consisted of 5 pullets, 5 hens, and 1 cock; the last two days; finds out who was

sickness. Uncle Alec's Reflections.

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