

found in a field of Fultz a white should be saved and increased.

ords.

will be discovered. If these are saved of one type, is a mixture of types, and increased in this way they often which are very similar in appearance, give rise to varieties that show much some of which, however, are capable improvement over old varieties. An of yielding far more than others. excellent example of this is the Fultz These new types, which are constantly wheat, which is a red grain, beardless occurring in wheat fields, are what anwariety, and which was selected from imal breeders used to call "Sports." the Lancaster wheat, a red variety, From time to time, among animals but bearded, by Abraham Fultz of and plants, these new variations oc-Mifflin county, Pennsylvania, in 1862. cur. Many times they are of no value The Fultz variety is still very exten- whatever and are not as good as the cively grown in the eastern states. original type from which they sprung, Three years after the Fultz was orig- but occasionally one of these "Sports" inated, that is in 1865. Garret Clawson is an improvement and in that case it

available and in these instances it becomes necessary to supply protein in some other form. Here is where our commercial feeds become useful. Perhaps the most universally used one of these is wheat shorts. This feed comes to us as a by-product from the manufacturer of our patent flours and makes one of the best all-around

weight. That is, if the pig weighed

one hundred pounds, he should have

about three pounds of corn per day in

addition to the skim milk. In a great

many cases, however, skim milk is not

Rough

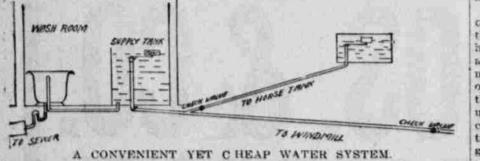
grained, beardless variety. He select. There is great opportunity here for ed this out and increased it and gave keen eyed farmers who are interested it the name of Clawson wheat. This in doing something for the betterment two and one-half pounds of corn warlety is still grown in Pennsylvania. of their state, to discover among the

Other experiments might be given various crops they are growing these to illustrate this method. One of the individual plants which are outstandfirst men to use the system of isolat- ing and use them as a foundation to ing single plants from the field and build up improved varieties, increasing was Patrick Shirreff, who

WATER SUPPLY ON

By L. W. Chase. Department of Agri-the should use about thirty gallons per cultural Engineering, University of day per person. With a family of five, Nebraska. which can be considered as about the

When we visit our city friends and average in the country, 150 gallons of step into the well equipped bathroom, water should be used each day. Aswith its flowing hot and cold water, to suming that this water is pumped and wash the dust and grime of the trip carried to the house by hand, it will from our hands and face we invariably take one person thirty-seven and oneremark, "Isn't this great! My, but I balf minutes each day to pump the mish we could have such conveniences water and twenty-five minutes each st home." We seem to think that day to carry it, or sixty-two and onesuch conveniences are for the people half minutes each day to put the water in the city and that they come free, in the house in a pail and not have it while in the country only a few can where it is convenient. Saying that have them, and they are the "big it takes one hour each day to get the bugs." In the first place such conven- amount of water which should be used fences do not come free in town, and each day and assuming that the farm-In the second place it costs money to er who carries this water can earn 20 keep them supplied with running cents per hour, it will cost him \$6 per water. The plumbing in the average month to put the water in the house. tity dwelling costs about \$259, while It has been femonstrated in the farm



the water rent is from 50 cents to \$1 mechanics' laboratory that 1 cent of per month.

take nearly as much to keep it up any place it is needed. after once being installed.

money for his water and sewer sys- convenient. One farmer who couldn't tem he should first consider whether make his house modern put his storit is a paying investment. In the city age tank in the wash room in such a of Cincinnati. O., the people use about manner that when it was full the float sixty gailons of water per person per closed the valve and the windmill day, while in other cities it is much pumped the water to the horse trough. lower, the average being about forty This outfit was very cheap, probably gallons per person per day. The not costing over \$40, including the farmer's work is such that he should labor. The bathtub doesn't need to use as much water per day as the av- he enameled in order to be servicegenerally the case that he does, so in ferable to a tin one. this computation we can assume that

gasoline under normal conditions will It will probably cost the farmer pump 153 gallons of water from a well it is probable that with any good pasmore to put in his water and sewer forty-three feet deep, making it cost system in the country than it costs only 31 cents per month to put the his friend in town, but it should not water in the house, and it can be put

It is not always essential that the But before the farmer spends any house he completely modern to be erage city inhabitant, but it is not able, although a cast iron tub is pro- his business more remunerative than

protein feeds which we have. A mixture of about one pound of shorts to makes a very desirable feed for pigs. This may be fed by either feeding the snorts alone, in the form of slop, and the corn in a dry state, or by grinding the corn and mixing the two together and feeding both as a slop. The two feeds just discussed are both to some extent home produced. We have another plant food also which is very good under many conditions, namely, oil meal or oil cake, which, aside from the shape in which it comes, is the same thing. This substance makes a very excellent protein food for all branches of live stock, except for very young stuff. It is not so good for young pigs, on account of its oil content, a constituent which is very hard for the young stomach to handle. It should be fed in the proportion of one part oil meal to nine parts corn. In tankage and blood meal, we have two packing house products very popular as protein concentrates. The latter of these, on account of its low fat content, is the better for young pigs, although the former is preferred for older swine. Tankage should be used in the proportion of one part tankage to nine parts corn, while blood meal, the highest protein concentrate we have, should be fed one part blood meal to nineteen parts corn.

So far in the discussion of rations, corn has been taken for the basis of the grain ration. In some localities, however, other feeds are more available, such as barley, speltz, wheat, millet and kaffir corn. Should any one of these feeds he used instead of corn. the same general directions may be used for combining with the protein concentrate. Better results can be ob tained by grinding these smaller grains before feeding. Should other pasture than alfalfa he furnished, a little variation in the grain rations mentioned may be advisable; although ture they will give excellent results. For older hogs the grain ration can be lessened considerably, as has been mentioned above. Breeding stock can be carried over the summer very nicely on a 2 per cent grain ration when on good pasture. In the latter end of the feeding period fattening hogs on alfalfa or clover probably make ---economical gains on a pure co: tion

Greater economy along agricultural lines is demanded by an increased consumption of foodstuffs and a higher cost of living, and it is doubtful if the farmer can make any department of the production of pork when the propor methods are used.

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