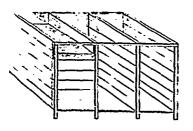
when the supply is plentiful, I feed to the manuro made on the farm, I fly higher and farther. Last fall, I 40 pounds per day to each cow in can buy stable manure a mile away at milk and 50 pounds to a steer. They a dollar per load. It is said that beets are cut into fine strips. I have fed exhaust the soil much faster than coming in an admirable "A" shaped give nie is heavy crop of green fodder the coming spring, before anything elso is in sight. Whatever is left of this on May 15 is cured to hay, the land is broadcasted with 300 pounds of basic slag and 200 of kainit and turned under to be ready on June 1 for the planting of the mangolds. The Eckindorfor is to-day by far the most profitable kind to grow. perfectly cy lindrical, smooth and flat at the top, with scant foliage and but one root. Then it is easily harvested and no woody part about it; even specimens 20 pounds in weight are to-day-May 8-iresh and soft all through. We consider 20 tons per acro a good crop. We plant at 24 inches between the rows and keep the ground well stirred and free from weeds.

Mangels are never given alone, but always in combination with hay and straw cut into $l\frac{1}{2}$ inch lengths. As we cannot have the silo, we contrive to get a palatable food in the following manner : A box, shown at Fig. 146, is built out of pine scantling and 11-in. boards, with the top and front open, the whole divided into three equal compartments, each to hold an entire day's feed for all animals, space being calculated on the basis of two cubic feet for each cow. A three-inch layer proviously been mixed with the daily allowance of oil-meal and bran; then another layer of chopped hay and straw, tread ng down firm as it grows up and setting in the front boards as When full, a board covering needed.



SUBSTITUTE FOR A SILO.

next compartment is similarly filled and on the third day the last one. On the third day we commence to feed from the first compartment; this has now become thorou hly heated and has entered into a sweet formentation giving an agreeable odor to the whole mixture and the avidity with which it is consumed proves that it is re-lished. The increased flow of milk lished. The increased now or man shows that the cows are grateful for our having "roots on the brain." T F Sang.

J. F. SABO. (R. N.-Yorker.)

CULTURE OF BEETS.

CULTURE OF BEETS. home as possible, until time and ex-porience determine whether you can What is the cost per acre of raising 1 (1) the best English growers make the beets for live-stock? Cost per acre of row 20 melles apart, and thin out to 10 in-beets for live-stock? Cost per acre of row 20 melles apart, and thin out to 10 in-beets for cows kept for milk? different thing Ee. What variety of beet is best? How 1 Gilbert, of the Outawa Experiment Farm, is many tons per acre would be a good too unwell to send us his usual monthly too are interested in poultry, and mirrors and crystals, and the birds

P

known any damage to arise there-from. They are fed with advantage returned to the land? B. E. Elk to young stock, sheep and horses. County, Pa. [The cost of raising an Mangolds do best the year after the acre of bests will vary greatly with land has been manured. I haul my several conditions. If the soil is al-barnyard manure on clover stubble ready in perfect order, deep, rich, free and seed down the middle of Septem-from woeds, the cost will be about the barnyard winter vetches which is and or action of several to the several data and seed down the middle of Septem-ber to ryo and winter vetches which is and or action of the several data and seed down the middle of several conditions of several data and se her to ryo and winter vetches which same or rather more than for an acro cossary weight about his cage. For give me a heavy crop of green fodder of turnips or c rrots, or an acro of po- the sake of these who wish to imof turnings or c rrots, or an acro of po- the sales of those who wish to im-tatoes. The cost of an acro of energiago prove their stock, it is hoped the pro-requiring reduced hand labor will be sent agitation will cause a helpful re-less, and not more than raising an or- duction in express charges. If there dinary corn crop Taking its cost into arises any disappointment at appear-consideration the ensilage will be ance of fowls when they arrive, re-commonly preferred, as it may be member fright and confinement may raised on almost any soil, and will not have put them a little "off condition," raised on almost any soil, and will not require the labor necessary for beets, but both have their special advantages. There are many varieties of beets, some of them especially adapted to different localities and modes of treat-ment, and therefore no one can be pointed out. Varieties of the sugar beet and of the mangel wurzel are commonly preferred, the sugar beet being richest and the mangels most being richest and the mangels most much more of mangels are raised on an acre. If you have a good strong soil it will probably pay well to pur-chase a fair quantity of the manure for future crops, but much will depend on the mode of application. If applied the previous autumn, so as to become thoroughly incorporated with the soil, it will be worth much more than if spread in the spring and simply plow of memode a good strong beck. There are any show the successive sta-the previous autumn, so as to become thoroughly incorporated with the soil, it will be worth much more than if spread in the spring and simply plow spread in the spring and simply plow chased, when that piece would have ed under. Fresh manure answers well been so small. Last year, without if thoroughly incorporated. It is im-portant that the land be not only free bought some pullets which proved to of chopped hay and straw is now from the seeds of weeds but clear of be fond of roosting in trees, something spread evenly on the floor of the first all fibrous rubbish, which would clog my own hens had not done for years, compartment; then follows a thin the seed drill. The drills may be 25 (11) Several nights witnessed up there and layer of sliced mangels, which have or 35 inches apart, and the plants on sheds a roal feathered picnic, which the seed drill. The drills may be 25 (1) Several nights witnessed up there and or 35 inches apart, and the plants on sheds a real feathered pienic, which finally thinned to eight inches for 1 proceeded to pick. A bamboo fish-sugar beets or a foot for mangolds. A pole was found to fill a *long* felt want rapid mode for thinning is sometimes as a weapon of dislodgment, and after employed in large field culture, by weeks of measuring my will-power means of a tool cutting eight inches against their won't power, my pullets wide, and remains a reveal a to weap properly housed. Roosting and wide and running across the rows at right angles, leaving cross rows four inches wide, which are finished by hand at greatly reduced labor. This mode requires very thick seeding. If the seed is quito fresh when sown, it will germinate freely, but old seed should be scalded and allowed to remain a day or two before planting. With a fine rich soil one inch in depth is sufficient. It is important to keep the crop of beets perfectly clean through the season—an essential not in put on. On the second day the always observed by cultivators.]

(Country Gentleman.)

Poultry-Yard.	=
POULTRY ON THE FARM. ((2)
BY MRS. IDA E. TILSON, WEST SALEM, WIS.	1

The fall, when yards are full of young stock, is a good time to buy fowls; if a beginner, choose a standard but not fancy breed, and buy as near home as possible, until time and ex-

were properly housed. Roosting and laying outside the hen house are the bane of many farm poultry yards. I allow neither habit, there is so much danger of loss from strays, midnight marauders and storms. 1 recollect reading an article, wherein a writer recommended coaxing hens out into apple trees during summer, for the benefit of both trees and fowls, the latter being cool and the former rid of some insect pests. I wish I know the end of that story. I often think about the man of our nursery jingle, who, when he saw a brambie had scratched his eyes out, jumped into the ame bush and scratched them in again. How did that writer coax her hens out of the trees and "scratch hons out of the trees and "scratch them in" their house again? It is true, chickens like to roost in those low, bushy trees, like fruit and nut

who put his hens in his hay-mow over winter, and lot them bed and lay there, so cozy and warm, I wish I knew the rest of that story, too, and whether other larger stock would eat hay so be 'ad. Fowls are such crea-tures of ha it, I wonder how he got

biddy lays eggs for ladies as well. I for one, see a great saving of time when 1 know, where to find things, and therefore prefer my hens in their house and their eggs in their nests. When I kept those breeds having strong tendencies to roam, I once found under a currant bush a nest of about thirty Hamburg eggs, and fa-ther discovered in a fence corner another containing over twenty Polish ergs. Hardly any could be used, they had been so seaked with rain and scalded by hot weather, hence I and scalded by hot weather, hence I sell no eggs except those gathered-daily in the hen-house. When my hens and I are parted, we have varied experiences. While I was lately away at Lake Monona, my fowls received in the main good care, but egg produc-tion fell off greatly, and two eggs had been broken in the nests, which probably occurred because broody hens were not broken up, but, instead, left to fight layers. On the first night of my return I saw, alas, one little, two little, yes, three little pullets, in their nest tailor-like suits of fall plumage, sitting on a tree, and was informed the r.ngleader had done so throughout my absence. I could not exactly have been knocked down with a feather, as the old saying is, because I am too robust, but my heart sank at sight of their collectivo feathers and bodies far above my head. These particular pullets were hatched from eggs laid by those which troubled me similarly last year. It seems a clear case of here-dity, for these chickens nover saw old fowls roosting outdoors—even their own mothers convinue entirely reformed. "Blood will tell"; family resemblances and peculiarities are plain in people, and a long, choice pedi-gree is sought for horses and cattle. We have a cow the cream from which churns very quickly into butter. For at least two generations before her the same was true, nor is she the only one of her race inclined to kick. Fanciors belive in heredi y in fowls, and have taken advantage of it to impress beauty and symmetry on their pro-duct. If they will be sure to add all good qualities of disposition, they can finish Keats' line, and prove it once more true that-

"A . hing of beauty is a joy forever."

(Farmer's Advocates.)

CAPONS AS BROODERS.

EDS. COUNTRY GENTLEMAN.-These days of applied science make one utilize every method and means for a productive and useful and. The unsatisfactory and often disappointing use of various artificial incubators and them in brooders that go to make up chicken coax her life led me to adopt a more natural 'scratch and simpler scheme. I find so few a? It is raisers of poultry know of this adap-in those tation of nature that your valuable columns are sought to expose somethtrees, but it seems to me clean fruit ing which has proved successful, eco-and a henroost can hardly go in nomical and valuable to me, as I partnership. I also read about a man trust it may to others, and a vexed question solved.

Years ago, in Louisiana, the Creoles were accustomed to use their capons as brooders when the mink or some other destroying element compassed the death of the sitting hen. In the Middle States it has been a well known