

HOUSE AND FARM.

Canning Tomatoes.

Put tomatoes up in stone jars holding two or three gallons each. Find them much better than jugs for canning fruit, as they can be more conveniently filled and employed.

Another method is to heat the fruit to a boiling point in the kettle, and pour while hot into the jars. The jars should be hot when the fruit is poured in; and if of glass, should be scalded by dipping them in hot water, so that the water will touch the inside and outside of the jars at the same time, and thus prevent breaking.

When the jars have been sealed a day or two and are quite cold, I turn them upside down and let them remain a few hours, that I may determine their liability to keep. If not sealed perfectly, they will leak a little when thus inverted, and need to be resealed and canned.

The jars should be handled carefully, otherwise the wax is apt to crack. They should be kept in a cool dry place, but above the freezing point. Of late years I have not used tin for canning fruit; do not like it. The acids of some kinds of fruit, especially, affect the tin in such a way as to impart an unpleasant flavor. I prefer self-sealing glass jars above all others, and stoneware above tin. Have used several kinds of self-sealing cans, but prefer those which have a glass cover with rubber between and held securely by an iron clamp. Have not had very good success with the glass jars without rubber, as the wax sometimes got among the fruit. But after procuring rubber to place under the tin cover, I found no such difficulty.—Rural New Yorker.

Nitrogen Fertilizers.

Prof. Hellriegel made a series of experiments to ascertain whether fertilizers should, necessarily, only restore to the soil the mineral ingredients removed with the crops, as Liebig contended, the atmosphere being relied upon for the nitrogen; or whether, as Stockhardt considered, experimentally established, vegetation did not reach a fuller development by reason of the positive addition of nitrogen to the soil. Eight vessels were exhibited which had been filled with fine sand, previously thoroughly heated, and two

planted respectively with peas, barley, buckwheat, and rape-seed, and to one of each of these different kinds, nitrogen had been added. The plants in the latter had appeared developed, while those in the others were stunted. He concluded that nitrogen is essential to growth, that of the atmosphere not sufficing for thrifty growth, the first leaves being developed from the nitrogen of the seed and soil. Also, that the richer the soil in nitrogen the more luxuriant in growth, and the greater amount of nitrogen taken from the atmosphere, and that, consequently, nitrogen in fertilizers is not only beneficial, but necessary. Further incomplete experiments upon the effect of moisture, warmth, and light indicated unmistakably that water is not only a carrier of nutriment, but is itself nutriment, and that plants rely mainly on the soil for water; that there is a surprising difference in growth, other conditions being identical, when an ample supply of water above the natural quantity is given the soil.—Michigan Farmer.

Value of Corn Fodder.

Dr. Nichols, in Journal of Chemistry, says: The opinion we have always held upon the question of the value of green corn fodder for milch cows has been, that when raised for broadcast sowing it is nearly worthless, but when sown in hills or in drills, and cultivated, with access of air and sunlight, is of high value. During the present season we have made some experiments to test the correctness of these views. Stalks were collected from a field where the seed were sown broadcast, and also stalks growing in drills upon the same field, and they were dried in a drying closet to expel the moisture. Both specimens were planted at the same time (the 6th of May), and it was found that the broadcast sowing contained 92 per cent. of water, those from the drills 83 per cent. of water. Thus it was shown that the difference of solid matter in the two was relatively as 8 to 17 per cent. The solid matter was composed of starch gum, sugar and woody fibre. There was almost an entire absence of sugar and gum in the stalks from the broadcast sowing, while the stalks that had grown under the influence of light and air held these nutrient principles in considerable quantities. The stalks were collected at the period of growth just before the ear begins to form, a period when most farmers commence to cut fodder for their cows. Our experiments upon corn fodder have afforded us important information upon other points. We find that the stalks cut before they reach a certain stage of growth are deficient in nutrient matter, and therefore it is a waste to feed them too early. The corn plant, like other vegetable structures, has but one object or aim in its growth, and that is to produce seed. It is engaged during its whole life in storing up large quantities of starch, which is to be used when the pressing occasion arrives, or the seed vessels mature, to form by some subtle, mysterious changes the rich nutrient principles which are found in seeds. As soon as this struggle is over, the corn plant, like all animals, dies a natural death. It is not necessary for frost to strike it; it dies from simple exhaustion. The proper time to cut and feed corn stalks is during the four or five weeks which succeed inflorescence, or in other words, they should not be cut until the flower is fairly developed, and the ear commences to form; and any corn that is so planted that the ear cannot form and mature is practically as worthless as fodder. Farmers may learn from these facts that corn designed to be cut for fodder should be planted at two or three periods during the season; some fields quite early, others somewhat later, and still others as late as is safe. In this way, when the hot, dry months of July and August are reached, and the pastures falter, a supply of fodder is secured at a proper stage of growth to afford the largest amount of nutriment.—Rural New Yorker.

EVERY time a farmer plows up the women's flower-beds or refuses bits of land for rose bushes or shrubbery, he should lose a colt or a cow, or have a law-suit.

Unprofitable Farming.

This is not a very attractive title for an article, but nevertheless it may be a profitable topic to consider. We may avoid disaster and achieve success quite as surely by heeding the lessons of unprofitable undertakings as by reflecting on those which were successful. It cannot be denied that a large portion of farming operations are carried on with little or no profit if judged by the standard of commercial transactions. Prices of farm produce are low; wages, and other expenses of conducting farming, are high. Judging by the result of one year, farming has been conducted at a loss; by that of a term of years we may arrive at a different conclusion. It is not the amount of money one has left when the balance is made at the close of the year that determines exactly the profit of the farmers, but when ten or twelve years have passed and he finds himself in possession of a home, a farm in high condition, good buildings, fine stocks, some surplus money at interest, and no debts, his children well educated, the farmer may count his career as successful. This is far more than the majority of business men attain, but then they rarely look at this majority for a lesson; it is the success of the few which dazzles, when the sun shines the stars are not seen. And this kind of success is the legitimate result of good farming and is best attained by the mass of farmers by a steady adherence to the growing of crops to which their land is best adapted, and for which there is the widest use. Their efforts are to increase the yield, improve the quality and diminish the expense of their products. Their success does not spring from spasmodic efforts to get large profits from special crops, but from patient pursuits of a rational system. We will enumerate briefly some of the practices which make farming unprofitable:

Raising and feeding poor breeds of stock which consume as much food, require as much care as good ones, and finally sell for less money.

Selling coarse grain, instead of feeding it with straw and hay, thereby decreasing the profit of feeding the latter, and diminishing the fertility of the farm.

Growing special crops that require all the manure the farm can make on a small area, and demand labor which should be bestowed on the legitimate branches of farming.

If special crops are grown they should be manured with purchased fertilizers, and enough labor be employed so no other farm crop will be neglected. Special crops, as they are termed, are out of place on ordinary farms.

Letting the land get foul with weeds which makes the cultivation more costly, and abstracts fertility which the crops need.

Neglecting the shelter of tools and making timely repairs to buildings. They will decay and render it necessary to employ more capital to renew them, thereby further dividing profits.

Not having a well matured system of cropping.

Neglect in expending money in needed and paying improvements.

To Preserve Fruit for Years. Take wide mouthed bottles and fill them with currants, cherries, gooseberries, raspberries, strawberries or blueberries. Cover the mouth with thin muslin, and place them in a kettle of warm water, not above the necks of the bottles. Place it over the fire, and boil for 20 minutes after the water first bubbles. Now take them out and cork them tightly, putting sealing wax made of resin and tallow (two parts resin to one part tallow) all over the corks and necks of the bottles. Stand them in a cool, dry closet in the cellar, heads downward, and the fruit will retain its flavor perfectly. When you open the bottles, sugar can be added as you desire it.

For everything you buy or sell, let or hire, make an exact bargain at first; and be not put of to a hereafter by one that says to you—"we shall not disagree about trifles."

Do but half of what you can and you will be surprised at the result.

SHERIFF'S SALES.

By virtue of a writ of Venditioni Exposita, First Term and Last Term, issued out of the County of Beaver, in and to all that certain lot of ground, situate in the borough of Beaver Falls, Beaver county, Pa., bounded and described as follows: Beginning at a stake on the north line of lot No. 30, on the east by lot No. 31, on the south by lot No. 29, on the west by lot No. 32, on the north by lot No. 33, on the east by lot No. 34, on the south by lot No. 35, on the west by lot No. 36, on the north by lot No. 37, on the east by lot No. 38, on the south by lot No. 39, on the west by lot No. 40, on the north by lot No. 41, on the east by lot No. 42, on the south by lot No. 43, on the west by lot No. 44, on the north by lot No. 45, on the east by lot No. 46, on the south by lot No. 47, on the west by lot No. 48, on the north by lot No. 49, on the east by lot No. 50, on the south by lot No. 51, on the west by lot No. 52, on the north by lot No. 53, on the east by lot No. 54, on the south by 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