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THE FARM.

WHAT KILLS FRUIT TREES--Deep planting is one error. To plant a merly stood is really the right way, whilst many plant a tree as they would a post. Roots are of two kinds-the young and tender rootlets, composed entirely of cells, the feeders of the tree, always found near the surface getting air and moisture, and roots of over one year old, which serve only as supporters of the tree and as conductors of its food. Hence the injury that ensues when the delicate rootlets are so deeply buried in earth. Placing fresh or green manure in contact with the young roots is another great error. The place to put the manure is on the surface, where the elements disintegrate, dissolve, and carry it downward. Numerous forms of fungi are generated and reproduced by the application of such manure directly to the roots, and they immediately attack the tree. It is very well to enrich the soil at transplanting the tree, but the manure, if to be in contact with or near the roots, should be thoroughly decomposed.

M. Dumesnil, a French gardener of scientific turn of mind, has discovered a method of preparing a "fertilizing moss" which will take the place of soil in nourishing plant-life. The roots of plants wrapped up in for fifteen minutes, and the relief absolutely pure. this moss have continued to bloom | will be almost immediate. Repeat for two or three months with a vigor never seen in the garden. The utility of this discovery, which seems to be well-attested, is especially apparent in the matter of house decoration, as all kinds of ordinary flowers, such as daisies, primroses, spire freely. voilets, auriculas, &c., may be kept in bloom through the greater part of the winter. The nature of the discovery has not, we believe, yet been disclosed.

FERTILIZERS FOR HOUSE PLANTS -When plants are in a growing state they may be stimulated by the use of guano water. A small teacupful of Peruvian guano dissolved | this liquor for twenty minutes, then in a pailful of rain water is strong | add milk and a little salt, and serve enough; water the soil with this hot. once, or at most twice a week. The water of ammonia (hartshorn) of the shops is as good, and can be had everywhere. If of ordinary strength, add a fourth of an ounce (two teaspoonsful) to a gallon of water, and use as above stated --American Agriculturist.

The American Cultivator that he but in fevers it must be omitted. had never known even a disappointment in ensilage where the system was thoroughly tested, and he had never known of an opponent of the system whose opinion was founded on any practical knowledge derived from personal experience with the

tive to insects, and will feed on sprinkle with small bits of butter. some that the hens will not touch. Bake it in a quick oven and have it time. There is another point in | Serve warm. their favor not generally known, which is that they are not scratch-

that, with a heavy feed of oats, etc., cretonne: on each side of this put at night and a light breakfast, a a strip of black or dark brown cloth a horse gets a reserved stock of (line it to give body to it); on each muscular strength laid in in ad- edge put a row of fancy stitches in vance, and travels faster and farther | silk or crewel; the ends may be than one having a hearty morning finished with fringe or not as you

crop from the middle of July to the middle of August. Three bushels per acre of good seed barley is enough for fall seeding.

The wheat crop promises to be very large this year all over the world, and prices will rule correspondingly low.

EARLY CULTIVATION .- The best time to kill a weed is as soon as it appears above the surface. A slight brush with a garden rake or in the field with a smoothing harrow will destroy weeds at this early stage; but if allowed to grow a few days, heavier implements must be used.

What we cauliflower is not a cab-

HEALTH HINTS

boot or a shoe either too short or tree rather shallower than it for too tight in any way. It will deform the foot and cause corns and bunions, which are hard to cure.

> Those who work much in the hot sun should avoid drinking large quantities of cold water; it is better if possible, to take small draughts at frequeut intervals. If some of the cold water is poured upon the wrists, or held upon the temple, or both, the temperature of the body will be rapidly reduced, and with better effect upon the system than if taken internally. A light, white hat is far more comfortable than black, heavy one, and if it has a wet cloth, or even a fresh cabbage-leaf, placed in the crown, it will be all the more cool and comfortable. A light handkerchief tied loosely about the neck will protect it from the burning sun. A bath at night is very refreshing, but should not be prolonged.

Here is a remedy for tender and inflamed feet, so common at this season of the year: First, throw away tight boots. Then take one pint of wheat bran, and one ounce of saleratus, and put it into a footbath, and add one gallon of hot water. When it has become cool enough, put in the feet, soak them this every night for a week, and the cure will be complete. The burn ing, prickling sensation is caused the pores of the skin being by closed up so tightly by the pressure of the boots that they cannot per-

SICK-ROOM COOKERY.—Oatmeal Grucl.-Take a tumbler, fill it twothirds with coarse oatmeal, and fill it with water, mix well and pour off the water into a saucepan; fill the tumbler again with cold water, and, after shaking well, pour the water off into a saucepan; do this again. making three times in all. Boil

Corn-meal gruel is made by wetting two tablespoonfuls of corn-meal and one of flour in a little cold water, stir into a quart of boiling water, add a teaspoonful of salt and boil slowly for an hour. This is a gruel which is apt to be hurried and not made properly. It should cook at least an hour, and is much better One of the leading farmers of to boillonger. If the patient can bear Massachusetts told the editor of it, cream is a great improvement;

THE HOUSE.

Scotch TART .- Take a deep square tin aud line it with rich paste, select pleasant tart apples, peel and core, quarter and cut in bits. Fill the paste with the apples, and cover the whole with a layer The Guinea-fowl is very destruc- an inch or more thick of sugar, and They are great foragers, active, and | well browned. When rightly made go over a whole field in a short the apple is soft and candied.

COVERING FOR LOUNGE. - A serviers, and do but little harm to plants. ceable cover to throw over a loung: The last transit in 1874 was not visible or couch in the sitting-room is made in Toronto, but the present one can be Experiencedhorsemen understand by taking a broad, bright strip of choose. Another cover is made of the drab Aida canvas, with the ends Barley may be sown as a soiling worked in loose overcast stitches. The canvas may be fringed out if you take the precaution to overcast the edge where you stop ravelling, to prevent its fraying out to greater depth than you care to have it.

> A DRINK EOR WORKERS. - The following is a capital drink for the harvest field. When you have any heavy work to do, do not take any beer or spirits. By far the best drink is thin oatmeal and water, with a little sugar. The proportions are one fourth-pound oatmeal to two or three quarts of water. It should be well boiled, then one ounce or one and a half ounces of brown sugar added. Shake up the oatmeal well through the liquid. In summer drink this cold, in winter hot. You Europe and America to witness this will find it not only quenches thirst | important phenomenon.

but will give you more strength and endurance than any other drink. If Do not permit a child to wear a at any time you have to make a very long day, as in harvest, increase the oatmeal to one half-pound or three-fourths pound to three quarts of water. Many will find a piece of lemon peel boiled with it an improvement.

SCIENCE.

There is an artesian well in Tower City, Dakota, which supplies the town with an abundance of pure water of excellent and steadily increasing quantity, from a depth of 675 feet. When boring this well, at a depth of 560 feet salt water was obtained. Twenty feet further down a gravelly stratum was struck, yeilding also salt water. After boring down 604 feet fresh water mixed with quicksand came up. Then, at 675 feet, pure fresh water was found.

The great blessing conferred on mankind by the discovery of vaccination is recognized by most intelligent persons. But the serious results which sometimes flow from the use of impure lymph deter many persons from enjoying the benefit of this preventive system, who would otherwise be glad to avail themselves of it. It is of great importance that physicians should be sure the lymph they are using is

TRANSIT OF VENUS. - The coming transit of Venus occuring on the 6th of December will be observed by some of the most eminent men of science now living, who will be aided by the most modern appliances for the observation of astronomical phenomena. Until quite recently the transit of Venus was considered the most important astronomical phenomenon, as it determined the suns parallax or angular distance from the earth. Within the past few years, however, other methods have been proposed, such as calculations based upon the abberations of the moon in certain portions of its orbit, and similiar changes produced upon the planets by reciprocal attraction. These methods however, have not yet been subjected to repeated tests, and can only be yet accepted as reasonable hypotheses. If the transit of Venus be noted by differerent observers in various points at considerable distance from each other, it will not be of equal duration at those places, and since the difference of time depends on the parallax of the planet as well as on that of the sun, the latter can be estimated by means of the former. The first transit of Venus from which valuable results were obtained was that of June 3rd, 1769. The Royal Society of London had observations taken at two stations widely apart, Hudson Bay and Otaheite, an island in the south Pacific, the result being the determination of the parallax with

OBSERVATIONS IN TORONTO .- The Government having appropriated \$5,-000 to defray the expense of observations of the next transit on the 6th December, the phenomenon will be observed from the observatories in Toronto, Woodstock, Montreal, Fredericton, N. B., and probably Quebec. viewed to better advantage from this locality than from any other point on the continent or probably in the world. This is an advantage not to be lost, and Mr. Carpmael of the Observatory has now ordered from York, England, a six-inch equatorial achromatic telescope, with which observations can be taken under much more favourable circumstances than ever before done in Toronto. The instrument will be provided with divided circles for directing the telescope to any particular star, and a clock-work mechanism which keeps the tube in line with the star in its caurse through the heavens.

OUR ONLY CHANCE -Before the next transit of Venus can be observed, after that of Dec. 6th, 122 years will have gone into the eternity of the past, and Arcturus and Orion, Sirius and the Pleiades, will shine from their serene spaces upon a world of humanity now non-existent,

The Toronto Observatory is now being prepared for the new telescope, a stone column being built in the centre of the building and leading to the roof of the Observatory, upon which the instrument will be mounted. Forty expeditions are already projected in



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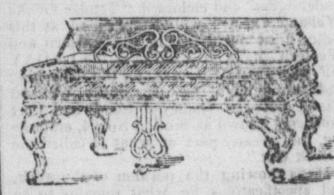
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