

FARM AND GARDEN.

TO PROTECT FRUIT TREES FROM RABBITS.—To Mr. A. S. Barnard and all others who use the tedious method of bandaging or wrapping trees, I would say, try the following: Take one peck unslacked lime, slake and add one gallon soft lye soap, reduce to consistency of common whitewash, and apply to tree with a mop or old paint brush. I know the above to be a sure preventive besides being the most healthful thing that can be applied to the tree.—C. P., Milton, Ky.

POTATOES IN HOT BEDS.—Potatoes may be started in hot beds so as to be ready to transplant to the field six inches high as soon as the weather will permit. In bedding them split them into two pieces lengthwise and bed them with the cut side down. The heat of the bed will soon cause them to sprout and grow, and when you are ready to transplant them the pieces may be taken up and the sprouts broken off and transplanted. By this method you can mature the tubers two or three weeks earlier, and a bushel so sprouted will plant twice as large an area of land as by the old method of planting.

POTATOES FOR SEED.—A potato that has been chilled is totally unfit for seed. Farmers are often at a loss to know why their potatoes do not sprout, when the solution of the mystery would be found in the fact that they were chilled before planting.

If your house plants get frozen, just sprinkle them with the coldest water before exposing them to the heat of the fire. A correspondent tells us he has tried it, and in eleven cases out of twelve the plants escape uninjured.

I have tried all kinds of floors for horse stalls I have heard of, and except concrete, plank is the only one that I can keep dry; and I prefer the latter to the former, for it is not absurd to use the expression, it is the most elastic. I have used plank for many years, and I never could discover that it injured my horses in the least.—A. B. Allen.

BONES DISSOLVED BY ASHES OR LIME.—Nearly every farm affords a larger or smaller supply of bones which are worth very little unless reduced in some way. Farmers who live near villages can generally make an arrangement with the boys to bring them a good supply of bones by paying for them. These bones may be dissolved by the use of wood ashes or quicklime. To 400 pounds of bone take 400 pounds of un-leached wood ashes, 60 pounds of fresh burned lime and 450 pounds of water. First slake the lime to a powder, mix it with ashes, and placing a layer of bones in a suitable receptacle—a pit in the ground lined with boards, stone slabs, or brick,—cover them with the mixture. Lay down more bones and cover, and repeat this until half the bones, or 200 pounds, are interstratified with the ashes and the lime. Then pour on 360 pounds of water, distributing it well, and let it stand. From time to time add water to keep the mass moist. As soon as the bones have softened so that they can be crushed between the fingers to a soft, soap-like mass, take the other 200 pounds of bones and stratify them in another pit with the contents of the first. When the whole is soft shovel out to dry, and finally mix with dry muck or loam (400 pounds) or enough to make it handle well.

RESULTS OF NEW INVENTIONS.—Mr. Edward Atkinson, illustrating the advantage of machinery, says it would require sixteen million persons, using the spinning-wheel and hand-loom of less than a century ago, to make the cotton cloth used by our people, which is now manufactured by one hundred and sixty thousand.

A MONARCH OF THE FOREST.—H. Tabor & Sons, Manistee, Mich., write that they recently cut a pine tree, at their camp in Section 21, Township 25, Range 5, on the Big Manistee River, that was 164 feet long, 100 feet from the ground to the first limb, and as round as a dollar. Eight logs were cut from it that measured as follows:

will relieve the irritation of the skin.

Early lambs may be pushed forward with fresh cow's milk, given warm, a quarter of a pint to a meal. Do not run any risks in over-feeding. Breeding sows should be separated from other pigs and provided with warm, dry pens, bedded with leaves of straw. A rail fastened to the wall, eight inches from the floor, will prevent the young pigs from being crushed. It is well to feed the sow some raw linseed oil a few days before the pigs are born.—American Agriculturist.

Set apple trees twenty-five feet apart each way. Perhaps thirty would be better.

SCIENCE.

The important discovery has been made that brick walls may be made thoroughly and permanently water-tight by a very simple and inexpensive process. Two washes or solutions are used for this purpose. The first is composed of three-quarters of a pound of castile soap dissolved in one gallon of water, applied at boiling heat with a flat brush. After twenty-four hours the second wash consisting of a half a pound of alum dissolved in four gallons of water, is laid on in the same manner, the solution being at a temperature of 60° to 70° Fahr. when applied. After another twenty-four hours, the soap wash is applied again—and so on, alternately, until four coats of each have been put on. Applied to the interior of reservoir walls covering some 19,000 feet, it was found that such a coating is sufficient to render a wall of that class water-tight under forty feet head of water, at a cost of not more than ten cents per square foot.

The ancients had a way of baking the walls of their brick buildings which would be rather difficult of imitation in the construction of the ten-story edifices of our modern cities. The walls were built of un-burnt bricks, and then were baked in situ by means of huge masses of wood piled up on both sides of each wall and kindled simultaneously.

An excellent soap-bubble preparation is composed of oleate of soda and glycerine, and from it bubbles two feet in diameter and of exceeding brilliancy can be blown. Some of these have been kept forty-eight hours under glass.

Mr. Dennis, the English antiquarian, has bought the site of the temple of Cybele at Sardis, Asia Minor, and great hopes are entertained of interesting discoveries among the ruins.

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Table with 3 columns: Length, ft., Diameter, inches, Scale, ft.

It would seem that 8,508 feet is about enough for the logs of one tree to measure, even if none of them got away; but in this case the returns are imperfect, from the fact that the log, which would have made two more logs, was so badly broken as to render it of no value. Tabor & Sons are of the opinion that this is the largest tree ever cut on the river.—Northwestern Lumberman.

THE HOUSE.

OIL YOUR BOOTS.—The sole of a boot or shoe completely saturated with oil is rendered more impervious to water, more pliable and yielding to obstructions, and consequently will wear very much longer than one that is stiff and unyielding, to be rasped down every step you take. And yet how few people ever dream that it is as necessary to grease the sole as it is to grease the uppers of boots; and when they do grease, it is only a little on the outside, which soon forms a gum or crust. Give them a good soaking, boiling hot in the start, and that will be about all they will need. We mostly use crude petroleum. It answers very well for oiling harness; it makes boots and shoes very soft, but the water soon takes it out. If a little melted tallow is mixed with it, it greatly improves it.

FISH CAKES.—Take any codfish that has been cooked, remove all skins, bone, and fat, and make fine. Mix with it mashed potatoes rubbed to a cream with a little butter. One-third as much potatoes, one one-half, or even the same quantity as you have of fish can be used. Make it out into little cakes with the hands, and fry in a little butter or fresh suet.

A GOOD RECIPE FOR SAUSAGE.—To twelve pounds of meat take eleven even tablespoonfuls of salt, three of pepper, three of ginger, two of sugar. Mix thoroughly and pack in pans, melt lard and run over the top to keep out air.

LEMON PIE.—One egg, one cup of sugar, one tablespoonful of corn starch or flour, a piece of butter the size of a hickory nut, and one lemon. Cut the pulp in small pieces, grate the rind. Beat the egg, sugar, butter, flour, and lemon well together, then add water, stir well, and bake between two crusts.

NICE COOKIES.—One cupful of butter, 2 eggs, 1 1/2 cupfuls of sugar, 2 table-spoonfuls of sweet milk, and nearly 1/2 teaspoonful of soda in the milk, a little nutmeg. Flour to roll out nicely.

TO EASE EARACHE OR ALMOST ANY PAIN.—Lay on cloths wrung from very hot water. Change them every minute.

VARIETIES.

The Baptist Weekly says that a good deacon in one of its Philadelphia churches made a climax in his prayer for his pastor by asking the Lord "to give him the wings of the morning, that he might fly to the uttermost parts of the earth."

The following story is told: Professor Park, of Andover, meeting Jos. Cook recently, said to him: You went to school at Phillips Academy, and now you are more talked about than any of its teachers; you went to Yale, and you are more talked about than any of the Yale Faculty; you came to our theological seminary, and you are more talked about than any of us; you lectured at Harvard, and are more talked about than any Professor at Harvard." Cook replied calmly: "So was Guiteau!"

A bright little girl up-town had a gold-fish, which, as all the rest of us must do some time, died. She and her little brother took the fish out to bury it with due ceremony, and after it was covered beneath the sod and a head-board erected, the brother suggested that a footboard also be put up. "No," she said, "we don't want a footboard; fish hasn't feet, brother; fish has tails, and we want a tailboard." The "tail" board was put up, and the mourners went about the streets.

TO WRITE RIGHT.—A specimen of the mysteries of our mother tongue:—Write, we know, is written right, When we see it written, write. But when we see it written right, We know it is not written right. For write, to have it written right, Must not be written right, nor rite, Nor yet must it be written right, But write, for so tis written right.

A story is told of an old gentleman who always took notes of his minister's sermon, and on one occasion read them to the minister himself. "Stop, stop!" said he at the occurrence of a certain sentence. "I didn't say that." "I know you didn't," was the reply, "I put that in myself to make sense."

Rev. Father Wilds' EXPERIENCE.

The Rev. Z. P. Wilds, well-known city missionary in New York, and brother of the late eminent Judge Wilds, of the Massachusetts Supreme Court, writes as follows: "78 E. 54th St., New York, May 16, 1882. MESSRS. J. C. AYER & Co., Gentlemen:—Last winter I was troubled with a most uncomfortable itching humor affecting more especially my limbs, which itched so intolerably at night, and burned so intensely, that I could scarcely bear any clothing over them. I was also a sufferer from a severe catarrh and diarrhoeal cough; my appetite was poor, and my system a good deal run down. Knowing the value of AYER'S SASSAPARILLA, by observation of many other cases, and from personal use in former years, I began taking it for the above-named disorders. My appetite improved almost from the first dose. After a short time the fever and itching were allayed, and all signs of irritation of the skin disappeared. My catarrh and cough were also cured by the same means, and my general health greatly improved, until it is now excellent. I feel a hundred per cent stronger, and I attribute these results to the use of the SASSAPARILLA, which I recommend with all confidence as the best blood medicine ever devised. I took it in small doses three times a day, and used, in all, less than two bottles. I place these facts at your service, hoping their publication may do good. Z. P. WILDS."

The above instance is but one of the many constantly coming to our notice, which prove the perfect adaptability of AYER'S SASSAPARILLA to the cure of all diseases arising from impure or impoverished blood, and a weakened vitality.

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KENDALL'S SPAVIN CURE.

Several months ago I injured my knee joint which caused an enlargement to grow the size of a large walnut and caused me very severe pain all the time for four or five weeks, when I began to use Kendall's Spavin Cure with the most satisfactory results. It has completely removed the enlargement and stopped the lameness and pain. I have long known it to be excellent for horses, but now I know it to be the best remedy for human flesh that I am acquainted with. Yours truly, T. P. LAWRENCE.

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