

HORTICULTURE

STORAGE MADE SAFE.

Description of an Out-Door Cellar or Cave That Keeps Out Every Vestige of Frost.

When the thermometer drops ten or more degrees below zero, it is quite a relief to the mind to know that one's vegetables put away for future use are safe from the elements without. On many farms it is impossible to place a cellar under the house, and as a result the owners go on from year to year without a safe place to store potatoes, etc. After nearly 25 years' experience with two cellars and three caves, I would not exchange such a cave as I built last season, see cut, for the best house cellar I ever saw, for keeping pota-

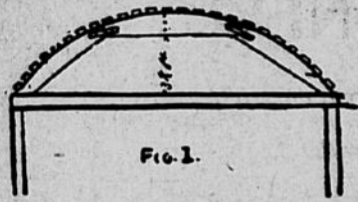
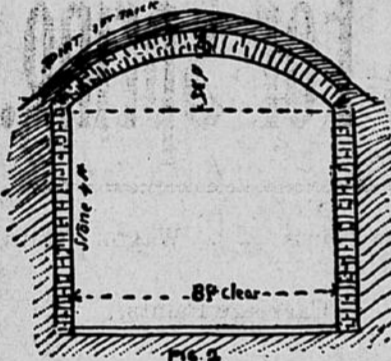


FIG. 1.

atoes and other vegetables in during winter.

On account of moving my buildings to the pike last summer, it became necessary to tear down and rebuild my outdoor cellar. Where I wanted to place it I had a little less than four feet of elevation above my tile outlet, so I did not dare dig any deeper. I made the excavation 10 by 16 feet from out to out. By making the stone wall one foot thick up to the square, left it 8 by 14 feet in the clear. The arch, as shown, is a little less than a half circle, it being but three and one-half feet from



RELIABLE OUTDOOR CELLAR.

top of end wall to the under side of the arch.

To build the arch, a skeleton of five sections is made from inch lumber, one section being shown in cut. The posts, the height of stone wall, are set under without fastening. The skeleton is then covered with lath or narrow boards, all of the same width. On this the brick are laid endwise, making the crown about eight inches thick. This is covered with a thick coat of cement, making it impervious to water. The ventilator is made by placing a four-inch tile in the center of the crown. The door and cellarway are placed in center of one end, the same as any cellar entrance. The cost of this cave is as follows:

Three days' work tearing down old wall and moving it 60 rods, using team one and one-half days; 2,600 arch bricks for ends and crown at 50 cents here, \$13; mason, 41 hours, at 25 cents per hour, \$10.25; carpenter making crown skeleton, \$1; lime, \$5.04; sand, four loads, \$1; cement for crown and floor, \$2.50; lumber for doors, \$1.50; nails, hinges, etc., \$1; ten rods tile for drainage, \$1.50; putting them in, \$2.00. Making a cash expense of \$38.79, not counting my time throwing out the dirt, covering it over after being built, hauling materials of all kinds, tending mason, cementing floor, boarding help, etc. which, if it had to be hired done, would have amounted to \$15 or \$20 more.

There is not a sign of frost inside, although it has been extremely cold for quite awhile. It will easily hold 300 bushels of potatoes, besides other vegetation usually found on a farm. —J. M. Petersine, in Ohio Farmer.

THE SAN JOSE SCALE.

Only Application That Will Effectually Kill It Is the Lime-Sulphur-Salt Wash.

The lime-sulphur salt wash seems to take the lead now as a remedy for the San Jose scale. The Ohio station recommends the following proportions: Unslaked lime, ground sulphur, and salt, 15 pounds of each, and 50 gallons of water. It is best prepared by steam, rather than by simply boiling. We may have to come to it to use this wash, much as I dislike to own it. Possibly we may obviate the necessity by using concentrated lye for dissolving the sulphur. However, this does not remove another serious objection. The wash is very corrosive, and will cause sores, if only slight ones, to men and horses, if work is long continued. On the farm we have to do many disagreeable jobs, and this will be one of them; I am sure I am not going to use this wash for the fun of it. It means business, and when I go at it I will be prepared to do it in a businesslike manner. The horse hitched to the single wagon carrying a sprayer will be protected by a light blanket, and the hands of the men with gloves. When spraying my help and I usually wear rubber coats, and rubber caps, or hats, too. Let such jobs set on our shoulders as lightly as possible.—Farm and Fireside.

LATE KEEPING APPLES

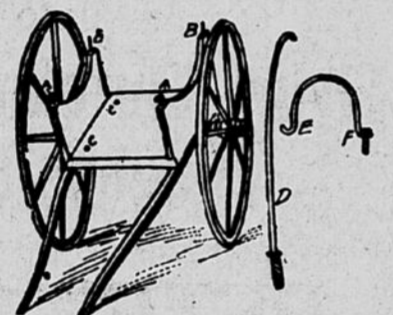
The Demand for Them Has Become So General That It Should Not Be Ignored.

The Canadian apple growers, who have made more of a study of the apple export trade than most of us, are considering, among other things, the desirability of finding more choice late-keeping apples. The best export prices for apples are paid late in the winter season, and it is at this time that the supply is small and the quality poor. Most winter apples have then lost their firmness of texture and best eating qualities. In spite of improved cold storage, they do not retain their quality as one would wish. The question of producing a new variety of late-keeping apples concerns every apple grower in the country. If such a variety could be produced or evolved out of present varieties, it would add millions to our export trade in apples. In Canada the powers are making earnest efforts to find such a variety by crossing several of the Russian apples on native stock. The trouble seems to be that most of the Russian apples are rather inferior in size and variety. They have excellent keeping qualities; in fact, remaining hard and green until almost spring-time; but they are neither nice or juicy, nor succulent or delicate in flavor. Yet the best of these varieties have a certain flavor which seems to indicate a future for them. The too general disparagement of them seems to be due to lack of sufficient patience to test them thoroughly. The right sort has certainly not yet been found, or at least the right cross has not been made with any of them. Nevertheless, there are possibilities in this direction that may revolutionize apple growing for late winter export in this country and Canada. With the varieties possessing all the hardness and late-keeping qualities, it seems more than probable that the other virtues should in time be added to them by persistent grafting with our choice native stock. The demand for such late-keeping apples was never more urgent and widespread than it is today, and we cannot afford to ignore it.—Midland Farmer.

HANDY SPRAYING RIG.

It is Light and Strong and Can Easily Be Driven in Among Trees and Vines.

One of the greatest difficulties the farmer or horticulturist meets in spraying is carrying about the pump and barrel. The stoneboat often must be used where the rows are narrow, but the draft is much easier if pump is mounted on wheels. I have arranged a platform upon a pair of wheels, which is a simple, handy rig. The axle is shortened to about four feet, making a very compact arrangement that will turn in a very small space. For spraying potatoes when the rows are three to three and one-half feet apart, the axle should be six feet long, so that the horse may go between two rows,



RUN-ABOUT SPRAY CARRIAGE.

while the wheels go between the rows on either side.

The barrel, when the pump is mounted on the side, is held in place by two boards of iron one inch wide and about three-sixteenths inch thick, fastened by the hooks, e, into the eyes, a, a, and drawn firmly into place by a nut on the bolts, b, b. If the pump is mounted on the end of the barrel, as with the kerowater, etc., it is held in place on the platform by four rods, d, that hook over the chine of the cask and are bolted through the platform at c, c.

This rig is light and strong, and can be driven in among trees and vines much better than a cart or wagon. The driver walks behind and drives and pumps, while either one or two lines are used. With a good standard pump, more work can be done in a day with this outfit than with any I am acquainted with.—Prof. S. T. Maynard, in Farm and Home.

FRUITS AND FLOWERS.

There is now an early summer flowering cosmos.

Give the peonies plenty of water during the blooming season of May and June.

Governor Roosevelt is claimed to be one of the finest crimson carnations on the market.

The Montana State Horticultural society has adopted as the standard package for apples a box 12 by 19 by 2 1/2.

Hardy perennials of every description are coming into fashion again. There is a return to the old style of gardening.

The Ohio experiment station reports the Garro apple as much like the Ben Davis in quality, but more highly colored.

It is claimed that the Mammoth Black Twig apple is now recognized by the best authorities as a different apple from the Paragon.

There is a variety of lantana which trails like ivy. It has pinkish lavender flowers, and is useful as a ground cover under larger plants.

FEELING IN SOUTH AFRICA.

Faith in the Rapid Development of Resources is Restoring Confidence.

"The ill feeling and bitterness engendered by the late Boer war are fast dying out in South Africa," said Mr. R. Stuttaford, of Cape Town, South Africa, according to the Washington Post.

"The Boers are as fine a people as inhabit the earth, and were only conquered by the superior force England was able to bring against them. Man for man, the Boer is as good a soldier as the world can show. But by magnanimous and generous treatment of a defeated foe the English are gaining the good will of the Boers, and it will not be long until there will be complete reconciliation between the late participants in one of the fiercest wars ever waged.

"The supremacy of British rule is a good thing for South Africa, and in the long run the Boers will be gainers by their defeat. The country is already fast recovering from the ravages of the strife, and in fact there is a high state of prosperity in the Transvaal, the Orange Colony and Cape Colony.

"We have in these British possessions the greatest gold fields and most valuable diamond mines in the world. The mineral and agricultural possibilities are simply enormous. My belief is that South Africa is going to become the theater of the greatest development that modern history will record. It will afford opportunities for adventurous and enterprising men for the next 25 years, and great fortunes are certain of being made there.

"While in Philadelphia the other day I walked into a fruit store to look at some peaches. The dealer told me that they were imported from Cape Colony, via London, and he had to retail them at 50 cents apiece. I recognized them as a home product and bought a few purely from patriotism. We raise delicious peaches that come to maturity in February, but, of course, they are not so good on landing in the United States after a voyage of many thousand miles."

MARCHING PLANTS.

Varieties That Travel Across Country, Keeping Step with Advance of Human Settlement.

Several years ago attention was called to the fact that the eastern plants of America were marching westward across the continent, keeping step with the advance of human settlement, and conquering the native plants as they proceeded. It was predicted that in time there would be a return of the western plants sweeping eastward and overcoming their conquerors, and it is noted that that return seems already to have begun. At present Australia presents, perhaps, the best example of this spreading and conquering tendency of man. The weeds that have found their way from Europe to Australia are crowding out the native weeds in many places, and especially in the more fertile lands. In some of the more rocky soils the native plants have the advantage in the contest.

A curious fact, brought out by observation in Australia, is that some imported plants, particularly ornamental garden varieties, cling to the neighborhood of their human friends, as if they felt themselves to be strangers in a strange land, needing protection. Although they spring up vigorously within the limits of the gardens, self-grown, year after year, yet they never gain any footing outside.

But the Scotch thistle does not show itself so timid. It has been introduced into both Australia and Tasmania—in the latter island it is said, by an enthusiastic Scotchman, who wished to see his national flower blooming around him on the other side of the earth, and it has taken advantage of its opportunities without fear and without favor.

HISTORY OF THE LANCE.

One of the Most Ancient and at One Time Popular of Weapons.

Abolition of the lance in the British army has brought out many comments on its history, says the Chicago Daily News. Prince Raymond Montecucoli, one of the most brilliant military commanders of the day, called the lance the queen of weapons and also the most ancient. It was used by the Greeks and Romans, and later by the knights of the middle ages. Charles VIII. of France seems to have been the first to introduce a regular lancer regiment into his army. The corps was abolished by Henry IV., owing to the difficulty of finding men to serve. So lancers disappeared from the French army until the Napoleonic wars. In the meantime Frederick the Great, having seen the excellent use made of the weapon by the Poles, had armed part of his cavalry with the lance, and had ultimately formed a regiment of uhlans. After the partition of Poland in 1807 many Poles entered the French service, and a body of Polish light horse was formed, which Napoleon in 1809 made into a regiment of lancers. A year later Napoleon formed a second regiment of lancers out of part of the royal Dutch guard. This arming of cavalry with the lance proved so successful that Napoleon created more lancer regiments and attached one to each division of cavalry. England did not make any lancer regiments until after Waterloo.

Has Voted Since 1839. Mr. H. L. Morse, of Buffalo, N. Y., has voted in 63 state and 15 presidential elections. His first vote was in 1839.

REGISTER OF THE U. S. TREASURY USES PE-RU-NA FOR SUMMER CATARRH.

Summer Catarrh Afflicts Men and Women.

HON. JUDSON W. LYONS, Register of the United States Treasury, in a letter from Washington, D. C., says:

"I find Peru-na to be an excellent remedy for the catarrh of spring and summer, and those who suffer from depression from the heat of the summer will find no remedy the equal of Peru-na."—Judson W. Lyons.

No man is better known in the financial world than Judson W. Lyons, formerly of Augusta, Ga. His name on every piece of money of recent date makes his signature one of the most familiar ones in the United States.

Two interesting letters from Thankful Women.

Miss Camilla Chardier, 5 West Lexington St., Baltimore, Md., writes: "Last summer gradually affected my digestion and made me miserably dyspeptic, suffering intensely at times. I took several kinds of medicine which were prescribed by different physicians but still continued to suffer. But the trial of one bottle of Peru-na convinced me that it would rid me of this trouble, so I continued taking it for several weeks and I was in excellent health, having gained ten pounds."—Miss Camilla Chardier.

Summer Catarrh.

Mrs. Kate Bohn, 1119 Willoughby Ave., Brooklyn, N. Y., writes:

"When I wrote you I was troubled with frequent headaches, dizzy, strange feeling in the head, sleeplessness, sinking feelings, faintness and numbness. Sometimes I had heartburn. My food would rise to my throat after every meal, and my bowels were very irregular. "I wrote you for advice, and I now take pleasure in informing you that my improvement is very great indeed. I did not expect to improve so quickly

after suffering for five long years. I am feeling very good and strong. I thank you so much for Peru-na. I shall recommend it to all suffering with the effects of catarrh, and I consider it a household blessing. I shall never be without Peru-na."

For these phases of catarrh peculiar to summer Peru-na will be found efficacious.

Peru-na cures catarrh in all phases and stages.

If you do not derive prompt and satisfactory results from the use of Peru-na write at once to Dr. Hartman, giving a full statement of your case and he will be pleased to give you his valuable advice gratis.

Address Dr. Hartman, President of The Hartman Sanitarium, Columbus, O.

These Delightful Americans.

"Here's a story, the truth of which is vouched for by an English lady resident in Florence. She has a balcony that overlooks a street in which are some shops, and a few days ago an American mother and daughter paused to look in at the window, and interchanged the following remarks: 'Mamma, are you quite sure that this is Venice?' 'Yes, mamma,' was the reply, 'you know, never in our itinerary that we are to be in Venice on April 15, and to-day is April 15, sure!'"—London Modern Society.

Lively Occupation.

To one unfamiliar with country nomenclature the question asked by the young man might not seem wholly unnatural. During the season of husking-bees, Mr. S—"No, the idea! How do you husk a bee, anyway?"—Philadelphia Press.

Minnesota Man's Discovery.

Adrian, Minn., June 1st.—Philip Doyle, of this place, says he has found out a medicine that will cure any case of Kidney Trouble. As Doyle was himself very sick for a long time with this painful disease, and is now, apparently, as well as ever, his statement carries the confirmation of personal experience.

The remedy that cured Mr. Doyle is called Dodd's Kidney Pills.

In speaking of the pills, Mr. Doyle says: "In regard to Dodd's Kidney Pills, they are certainly a wonderful medicine—the best that I have ever taken."

"I was very bad for a long time with Kidney Trouble and could get nothing to help me till I tried Dodd's Kidney Pills. "I used altogether about ten boxes, and I can say emphatically that I am completely cured. I am entirely well, without a symptom of Kidney Trouble left."

"I can heartily recommend Dodd's Kidney Pills to anyone who is suffering with Kidney Trouble, for they made me all right. I have advised several of my friends to try them, and not one has been disappointed."

Her Preference.

Fashionable Doctor—"My dear young lady, you are drinking unfiltered water, which swarms with animal organisms. You should have it boiled; that will kill them."

"Patient—Well, doctor, I think I'd sooner be an aquarian than a cemetery.—London Tit-Bits.

Ladies Can Wear Shoes

One size smaller after using Allen's Foot-Ease. A certain cure for swollen, sweating, hot, aching feet. At all Druggists, 25c. Accept no substitute. Trial package FREE. Address A. S. Olmsted, Le Roy, N. Y.

The foot site down and waits for extraordinary opportunities to come his way, but the wise man grasps common chances and proceeds to make them great.—Chicago Daily News.

GRIPPE HURT KIDNEYS.

The lingering results of La Grippe remain with the kidneys for a long time. They suffer from over exertion and the heavy drugs of Grippe medicines. Doan's Kidney Pills overcome this condition.

AURORA, NEW MEXICO.—I received the free sample of Doan's Kidney Pills which I ordered for a girl nine years old that was suffering with bed wetting, and she improved very fast. The pills acted directly on the bladder in her case and stopped the trouble. J. C. LUCERO.

BATTLE CREEK, MICH.—My husband received the sample of Doan's Kidney Pills and has taken two more boxes and feels like a new man. He is a fireman on the Grand Trunk R. R., and the work is hard on the kidneys. Mrs. Geo. GIFFORD.

PLINY, W. VA.—The free trial of Doan's Kidney Pills acted so well with me, I wrote Hooff, the druggist, at Point Pleasant, to send me three boxes, with the result I have gained in weight, as well as entirely rid of my kidney trouble. My water had become very offensive and contained a white sediment and cloudy. I would have to get up six and seven times during the night, and then the voiding would dribble and cause frequent attempts, but, thanks to Doan's Kidney Pills, they have regulated all that, and I cannot praise them too much. JAS. A. LANHAM.



Hon. Judson W. Lyons.

After suffering for five long years. I am feeling very good and strong. I thank you so much for Peru-na. I shall recommend it to all suffering with the effects of catarrh, and I consider it a household blessing. I shall never be without Peru-na."

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The Four-Track News, with a monthly edition of 50,000 copies, has a steadily increasing subscription list, while its system of distribution is one of the best enjoyed by any magazine. In the United States and Canada it is handled by thirty-four news companies, while the International News Co. distributes it throughout Europe. Foreign offices for the reception of subscriptions are maintained at London, Southampton, Bremen, Paris, Havre, Antwerp, Liverpool, Hamburg and Genoa, and files are kept at the office of every United States consul and consular agent in the world. Through the express companies and tourist agents it is also on sale at upwards of 500 places, embracing 210 cities in forty-five foreign countries.—From Printers' Ink.

"How wasteful of that gardener!" murmured the stork boarder as he bit savagely but hopelessly at his asparagus. "How is that?" asked the landlady. "Why, if he had let these stalks grow one week longer he could have sold them for telegraph poles."—Baltimore American.

Low Summer Tourist Rates

Via Chicago Great Western Railway. Round trips to Colorado, Utah, Black Hills, New Mexico and Texas points. Tickets on sale July 1st to Sept. 30th. Good to return Oct. 31st. For further information apply to any Great Western agent, or J. F. Elmer, G. F. A., Chicago, Ill.

"Some folks," said Uncle Eben, "is busy because they hab a heap o' work to do an some because dey wants to git away an' go fishin'."—Washington Star.

Piso's Cure for Consumption is an infallible medicine for coughs and colds.—N. W. Samuel, Ocean Grove, N. J., Feb. 17, 1900.

People who live only to amuse themselves work harder at the task than most people do in earning their daily bread.—H. More.

"The Klean, Kool Kitchen Kind" is the trade mark on stoves which enable you to cook in comfort in a cool kitchen.

The gourmet's rule: "Never put off till to-morrow what you can eat to-day."—Yonkers Statesman.

Steps the Cough and works off the cold. Laxative Bromo Quinine Tablets. Price 25 cents.

People who accomplish most make the least noise.—Chicago Daily News.

Opium and Liquor Habits Cured. Book free. B. M. Woolley, M. D., Atlanta, Ga.

Not failure, but low aim, is crime.—J. R. Lowell.

Putnam Fadeless Dyes cost but 10 cents per package.

Candour without courtesy is not courage.—Ham's Horn.

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From Pimples to Scrofula From Infancy to Age

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The agonizing itching and burning of the skin, as in Eczema; the frightful scaling, as in psoriasis; the loss of hair, and crusting of the scalp, as in scald head; the facial disfigurements, as in acne and ringworm; the awful suffering of infants, and anxiety of worried parents, as in milk crust, tetter and salt rheum,—all demand a remedy of almost superhuman virtues to successfully cope with them. That Cuticura Soap, Ointment and Resolvent are such a standard proven beyond all doubt. No statement is made regarding them that is not justified by the strongest evidence. The purity and sweetness, the power to afford immediate relief, the certainty of speedy and permanent cure, the absolute safety and great economy, have made them the standard skin cures, blood purifiers and humour remedies of the civilized world.

Bathe the affected parts with hot water and Cuticura Soap, to cleanse the surface of crusts and scales, and soften the thickened cuticle. Dry without rubbing, and apply Cuticura Ointment freely, to allay itching, irritation and inflammation, and soothe the heat, and, lastly, take Cuticura Resolvent, to cool and cleanse the blood. This complete local and constitutional treatment affords instant relief, permits rest and sleep in the severest forms of eczema, and other itching, burning and scaly humours of the skin, scalp and blood, and points to a speedy, permanent and economical cure when all else fails.

Sold throughout the world. Cuticura Resolvent, 50c. (in form of Chocolate Coated Pills, 25c. per trial of 50). Ointment, 50c. Soap, 25c. Agents: London, 17, Chancery Lane; Paris, 5, Rue de la Paix; Boston, 14, Columbus Ave.; New York, 10, Nassau St.; Chicago, 201, Dearborn St.; Philadelphia, 10, Market St.

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Wonderful yields of wheat and other grains. The best grazing lands on the continent. Magnificent climate; plenty of water and fuel; good schools, excellent churches; splendid railway facilities. HOMESTEAD LANDS OF 160 ACRES FREE, the only charge being \$10 for entry.

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Mail by druggists or send postpaid by us. 50c. Paxtine Toilet Antiseptic. Guaranteed. THE N. PATTON CO., 201, Dearborn St., Chicago, Ill.

A. N. K.—1972

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