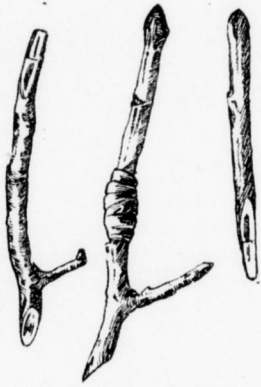




TWO GRAFTING SYSTEMS.

One Is Known as the Cleft, and the Other as the Whip Method, and Both Are Excellent.

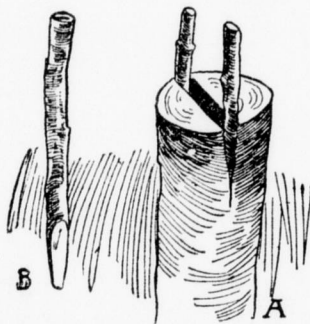
A method often used is called cleft grafting. Select a branch from one to two inches in diameter, saw it off at a smooth place, far enough above any knot or branch so that it will split easily, then split it in the center by driving a strong knife into the end. The scion must be a twig which grew last year. The buds on the scion must be snugly wrapped in their winter coats and must not have begun to grow. Dormant scions can be gotten at any time during the winter, but if grafted then they would dry and wither long before the time for them to grow. Hence we must wait until the tree is ready to grow in spring. The scions must be taken sooner and kept in a



THE WHIP GRAFT.

cool place where they will not wither, to prevent the buds from starting.

With such scions, grafting can be done any time in spring. Take one of the scions and shave off the bottom on two sides, making a wedge. One side should be just a little thicker than the other, and on that side there should be a bud just above where the wedge begins, leaving about three buds in all. Prepare another scion in the same way. Now open the split made in the branch. This may be done with a narrow wooden wedge. Put the two scions in at the outer edges with the thickest side out, slanting them just a little to make sure that the line between the wood and the bark of each scion crosses the line between the wood and the bark of the branch. When the scions are in position, remove the wedge and let the split close up, holding them fast, as in the illustration. Then some wax will be needed, because if the graft were left like this, these exposed places would soon become so dry that no growth could be made. Wax may be bought of seedsmen, or can be made. Boil four parts by weight of resin, two of beeswax and one of tallow, until all are thoroughly melted. Then pour in cold water, grease the hands and pull it like molasses candy. It grows lighter in color by working and should be soft and pliable when ready for use. Cover the ends of the branch and the split down the side, also the tips of the scions, with the



CLEFT GRAFT AND SCION.

wax, so that no air or water can get in. If all goes well, in a short time the buds on the scions will begin to swell and grow. In a year or two the branch will be large enough to bear apples.

For whip grafting, the only tool needed is a jackknife. The method is practiced for branches about the size of a lead pencil. Make a long slanting cut across the branch, as shown in the illustration. Then make another cut a little more than half way toward the end of this slanting cut, as illustrated, then cut the scion in exactly the same way, holding the tip toward you in making the cut. Place surface of scion and stick together, pressing the tongue of each into the cut of the other. The barks of the two must come together on at least one side. The grafts must be waxed in waxed cloth made by dipping pieces of the cloth into the grafting wax.—Orange Judd Farmer.

How to Destroy Outworms.

Those who are much troubled by any of the several species of outworm should remember that they can easily be destroyed by the use of a mixture of bran and Paris green, moistened with sweetened water, just enough to make into little balls that are to be placed by the side of each hill, or scattered at intervals of three or four feet apart along the drills. The worms will eat this in preference to the plant, and they will never eat plants again after once trying this. Each ball should be about a teaspoonful. One pound of Paris green to 50 pounds of bran is sufficient. It should not be put where the poultry can get it, but poultry have no business in the cultivated fields.

WHEN YOU KNOW HOW.

Even the Milking of Fractious Heifers Is Not as Hard as It Seems at First Glance.

I have kept this past winter 12 heifers, coming two years old, several of which have already come in. I have had the question asked several times by farmers if I did not have a good deal of trouble in breaking them to being milked, and when I have said "No," surprise has been expressed, and the remark made that they nearly always have a great deal of trouble—one saying that he usually had to wrestle long, and have his pail kicked away from him many times, before he "could subdue the animal and take the kinks out of her." As many others may have had a similar experience, it may interest them to learn how such trouble can be avoided.

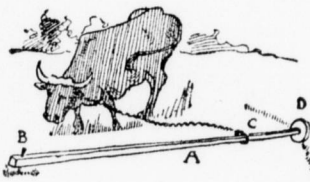
In caring for my heifers, I have had them eared two or three times a week and when doing so, have handled their bags and teats carefully from either side, so that they became familiar with such handling; so when they came in, they were not frightened at an attempt to milk them. But to them the act of milking was a new thing, and they would be sometimes restless, and some would spitefully kick. In such cases, if a gentle patting and word would not prove effective, I took a chain and put it over the back and around the body, just in front of the bag, hitching it somewhat tight. This always proves effective; sometimes one trial is sufficient, or perhaps it needs to be used several times, but it is always sure—without hurt to animal, its disposition or temper.

One farmer, when told how easy it was to break a cow from kicking, said such knowledge would have saved him many a hard tussle and a good milker, as he had to turn to beef an otherwise valuable cow.—Charles O. Newton, in Country Gentleman.

TETHERING ANIMALS.

The Device Here Illustrated and Described Is Perfectly Secure and Requires No Attention.

The plan herewith will not allow of an animal becoming entangled as in using a rope attached to a peg. Take a pole, a 30 feet in length, and near the large end bore a suitable sized hole, say seven-eighths inch, through the pole. Place an iron ring, c, on pole large enough to slip along from end to end. Drive an iron pin, b, about 18 to 20 inches long through hole in pole and into ground, so as to permit it to



A SIXTY-FOOT ANIMAL TETHER.

revolve in a circle around pin, the small end of the pole being supported by an old wheel, d, from cutting bar of a mower, an old plow wheel, or in the case of these not being easily procured, a wooden one cut from a piece of plank. Use a halter chain to secure animal to ring on pole, having it of a length which will not allow animal to step over pole with its rear feet. This easily constructed device will certainly be found of much benefit to the suburbanite who wishes to tether a horse or cow in a manner to admit of its having all the range of feed possible, and so as to be perfectly secure and require no attention.—J. G. Allhouse, in Farm and Home.

WATERMELON CULTURE.

When Wisely Conducted, This Is a Very Pleasant and Profitable Side Occupation.

Watermelons, like pumpkins, are strong runners, and seed should be planted in well-manured hills eight to nine feet apart each way. Plant five to ten seeds in a hill as soon as the nights are quite warm and the trees out in full leaf. Protect the young plants from insects, and when well started thin out, leaving only the best plant standing in each hill; cultivate frequently and keep free from weeds. When the vines are well started to run, exercise care not to injure or bruise them in any way, as they are quite tender. You should then pull the large weeds by hand or use a hand hoe. When the fruits are ripe the small tendrils at the base of the stem turn brown, the skin where the fruit rests on the ground becomes yellow, and the melon has a hollow sound when struck sharply with the finger; also, if the hand is placed on the fruit and some pressure applied, the flesh will be heard to crack slightly. The ripe fruits will keep a considerable time in a cool place.—Burpee's Vegetable Guide.

Trees and Their Needs.

In the effort to change bleakness into beauty the greatest ally is the tree. The tree is the easiest to establish because it can send down its roots long distances into the moist subsoil, and will exist when smaller plants perish with the drought. The trees once established protect smaller plants that are afterward set out and become the sturdy barriers against destructive winds and withering heat. Trees, however, must be themselves protected and fostered till they have obtained a firm hold of the soil and have established the ability of appropriating the soil water.—Farmers' Review.

Milk is much more sensitive in receiving and tenacious in holding impurities than water, and hence care must be taken to keep pure from the start.

Multum in Parvo Prayer.

George's mother insisted upon his repeating the prayer of childhood. He started sleepily, requiring prompting at the beginning of every line. Drowsiness had nearly won the mastery by the time that he had obediently got as far as "my soul to take." "God bless—" prompted his mother. George has a long list of relatives. There was a flutter of his sleep-laden lids as he jumped them all together: "God bless the whole shooting match!" And he was asleep.—Chicago Chronicle.

Deafness Cannot Be Cured by local applications, as they cannot reach the diseased portion of the ear. There is only one way to cure deafness, and that is by constitutional remedies. Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube gets inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed deafness is the result, and unless the inflammation can be taken out of the tube restored to its normal condition, hearing will be destroyed forever; nine cases of ten are caused by catarrh, which is nothing but an inflamed condition of the mucous surfaces.

We will give One Hundred Dollars for any case of Deafness (caused by catarrh) that cannot be cured by Hall's Catarrh Cure. Send for circulars, free.

Sold by Druggists, 73c. F. J. Cheney & Co., Toledo, O. Hall's Family Pills are the best.

Noncommittal.

Mrs. Slowpay—A girl formerly in your employ answered my advertisement for a maid. Is she honest?

Dressmaker—That is more than I can say.

"Why, what do you mean?"

"Well, you see, I have no positive proof of her honesty, but every time I sent her to do with my bill she failed to give me the money."—Chicago Evening News.

Lane's Family Medicine.

Moves the bowels each day. In order to be healthy this is necessary. Acts gently on the liver and kidneys. Cures sick headache. Price 25 and 50c.

Fortune keeps up such a see-saw that the man for whom a town is named is liable to be found in the poorhouse 20 years later.—Acheson Globe.

PUTNAM FADELESS DYES are fast to sunlight, washing and rubbing. Sold by all druggists.

The chronic kicker usually kicks himself out of joint.—Ram's Horn.

The smarter a man is in fancy the more he will smart in fact.—Ram's Horn.

THE MARKETS.

New York, May 12  
Flour—Minnesota patent \$3.60@3.85.  
Wheat—No. 2 red 75 1/2c.  
Corn—No. 2 at 42 3/4c.  
Oats—No. 2 white 29c.  
Beaves—Steers \$4.60@5.75. Veals \$4.50@7.00.  
Sheep—Clipped \$4.00@5.50, clipped lambs \$5.75@7.37 1/2.  
Hogs—Western \$5.30@5.55.  
Cleveland, May 12.—Wheat—Winter wheat, patents, \$3.60@3.80.  
Wheat—No. 2 red 75 1/2c.  
Corn—No. 2 yellow 43 1/2c.  
Oats—No. 2 white 29 1/2c.  
Butter—Best creamery 21c.  
Cheese—York state 12 1/2c.  
Eggs—Strictly fresh 12c.  
Potatoes—Best grades 45c.  
Cattle—Choice steers \$4.75@5.10, fair \$4.40@4.60, calves \$5.25@6.00.  
Sheep—Choice \$5.00@5.25, fair \$4.50@4.75, best lambs \$5.75@6.50.  
Hogs—Yorkers \$5.35, pigs \$5.00.

Toledo, May 12.—Wheat—No. 2 cash 72 1/2c.  
Corn—No. 2 cash 40c.  
Oats—No. 2 cash 24 1/2c.  
Clover Seed—Prime new \$5.00.  
Oil—North Lima \$1.15.

East Buffalo, May 12.—Cattle—Extra \$5.30@5.50.  
Hogs—Prime heavy \$5.45, best Yorkers \$5.55@5.50.  
Sheep—Choice lambs \$6.90@7.05, prime wethers \$5.40@5.60.

East Liberty, May 12.—Cattle—Extra steers \$5.40@5.60.  
Hogs—Yorkers \$5.35@5.40.  
Sheep—Native lambs \$6.40@6.65, sheep \$5.25@5.35.

DR. HARTMAN'S ADVICE

Is Sought by Female Sufferers From Ocean to Ocean.



Mrs. F. W. Goulder, 1306 4th Ave., Rock Island, Ill., writes:

"I was afflicted for five or six years with catarrhal difficulties and was growing worse all the time. I began taking your Peruna, with a marked improvement from the first. Independent of curing that, the Peruna has greatly improved my general health." "Every bottle of Peruna is worth its weight in gold; especially to me, for I owe my present good health to Peruna."

All over the country there are women who have been invalids for many years, suffering with female derangements which the family doctor cannot cure.

What a boon to such women is Dr. Hartman's free advice! So famous has his skill made him that hardly a hamlet or town in the country but knows his name. He cures tens of thousands, and he offers to every woman who will write to him her symptoms and a history of her trouble, free advice and treatment.

The medicines he prescribes can be obtained at any drug store, and the cost is within the reach of any woman. He describes minutely and carefully just what she shall do and get to make a healthy, robust woman of herself.

The Doctor has written a book especially for this class of women, entitled "Health and Beauty." This book contains many facts of interest to women, and will be sent free to any address by Dr. Hartman, Columbus, O.

Gain-O Made Her Pat.

Westfield, Mass., Nov. 27, 1896. Genesee Pure Food Co., Le Roy, N. Y.: Having used your Grain-O for the past three months I thought I would write and let you know how much good it has done me. When I was away on my vacation last summer the people I visited asked me to try Grain-O, and I drank some, but I didn't like it at all. But the more I drank the better I liked it, and now I wouldn't drink anything else. I never weighed over 100 pounds, and last winter I was down to 103 pounds, and I drank some, but I didn't like it at all. It gives me an awful appetite, and makes me strong. It is doing me more good than anything I ever took, and I would recommend it to everybody.

Mrs. Geo. R. Brown.

Something Practical.

Many a young girl makes the mistake of thinking that because she would die for a man she really loves him. In this restless, throbbing age it is necessary for her to ask herself in all seriousness: "Would I take in washing for him?"—Detroit Journal.

Ask Your Dealer for Allen's Foot-Ease. A powder to shake into your shoes. It cures Hot, Chafed, Itching, Sweating Feet and Ingrowing Nails. Allen's Foot-Ease makes new or tight shoes easy. Sold by all druggists and shoe stores, 35c. Sample mailed FREE. Address Allen S. Olmsted, Le Roy, N. Y.

Accommodating.

"I am a British subject," he said, as he signed the register with a flourish. "All right," replied the hotel clerk. "I notice any Boers lurking about, I'll give you the tip to rush to cover."—Philadelphia North American.

Many People Cannot Drink coffee at night. It spoils their sleep. You can drink Grain-O when you please and sleep like a top. For Grain-O does not stimulate; it nourishes, cheers and feeds. Yet it looks and tastes like the best coffee. For nervous persons, young people and children Grain-O is the perfect drink. Made from pure grains. Get a package from your grocer to-day. Try it in place of coffee. 15 and 25c.

Mrs. Bunt—The new tenants next door are not a bit neighborly." Mr. Bunt—"No; I notice they keep their confounded piano going almost constantly."—Philadelphia North American.

Coughing Leads to Consumption.

Kemp's Balsam will stop the Cough at once. Go to your druggist to-day and get a sample bottle free. Large bottles 25 and 50 cents. Get at once; delays are dangerous.

Most of the good jokes are old ones if you only knew it.—Washington (La.) Democrat.

To Cure a Cold in One Day

Take Laxative Bromo Quinine Tablets. All druggists refund money if it fails to cure. 25c.

He who can stand the little trials is fitted for the great trusts.—Ram's Horn.

ALABASTINE Is a durable and natural cement-base wall coating. In 5 lb. paper packages, made ready for use in white and fourteen beautiful tints by mixing with cold water. It is a cement that goes through a process of setting, hardens with age, and can be coated and recoated without washing off its old coats before renewing.

ALABASTINE Is entirely different from all the various kaolinines on the market, being durable and not stuck on the wall with glue. Alabastine customers should insist on having the goods in packages properly labeled. They should reject all imitations. There is nothing "just as good."

ALABASTINE

Prevents much sickness, particularly throat and lung difficulties, attributable to unsteady coatings on walls. It has been recommended in a paper published by the Michigan State Board of Health on account of its sanitary features; which paper strongly condemned kaolinines. Alabastine can be used on either plastered walls, wood ceilings, brick or canvas, and any one can brush it on. It admits of radical changes from wall paper decorations, thus securing at reasonable expense the latest and best effects. Alabastine is manufactured by the Alabastine Company of Grand Rapids, Michigan.

Instructive and interesting booklet mailed free to all applicants.

Use Certain Cough Cure. Price, 25 cents.

HE MISSED THE MOTIVE.

The Speaker Thought It Was His Own Genius That Held the Child.

This is a story which Representative Eddy, of Minnesota, tells on himself. Mr. Eddy not only enjoys the situation when the laugh is turned against him, but has a sense of humor which leads him to start the laugh sometimes himself.

"In making the campaign in my district one year," said Mr. Eddy, "I took along as an attraction a veteran of the war of 1812 and of the civil war who was a famous hand at beating the drum. He was a drummer from away back and could arouse a whole township. Drum music is an invidious kind of thing, anyhow, and the old captain's drumming was particularly stirring.

"Well, one night, after the captain's drum had given the usual overture, I commenced my speech to the populace which had been lured to the scene by his drum. I noticed at the foot of the rostrum, the same being a big dry goods box, a bright-eyed little fellow about 12 years old, who sat through the speech, following me with great attention. It pleased me very much. Any fool can interest an audience of adults, but it takes a genius to hold a child.

"So, after the speaking, I went down and spoke to the little fellow, and after shaking hands with him asked him how he liked my speech.

"Oh, it will do," he said; "but if I was you I would keep the captain drummin' all the time."—Washington Star.

A Clear Case.

"What's the charge?" asked the court. "The prisoner, your honor," replied the officer, "asked this man here what his father was doing, and when told that the latter was a spy in the mint, without provocation called the father a mince pie."

"Poor fellow!" said the court. "An examination into his sanity seems almost unnecessary."—Philadelphia North American.

Pipe's Cur cannot be too highly spoken of as a cough cure.—J. W. O'Brien, 322 Third Ave., N. M.neapolis, Minn., Jan. 6, 1900.

Mrs. C. T. Harding, Cynwyd, Pa. (near Philadelphia), wrote April 1st, 1900: "I have been using

Palmer's Lotion for 20 years for my HAIR AND EYES and other ailments. It is the best friend I have."

Lotion Soap Prevents and assists in curing all skin troubles. At Druggists only.

1 CENT Pr. Sq. Ft.

Including caps and nails, for the best Red Rope Roofing Substitute for Plaster. Samples Free. THE PA. MANILLA ROOFING COMPANY, CAMDEN, N. J.

DROPSY NEW DISCOVERY; gives quick relief and cures worst cases. Book of testimonials and 10 day treatment free. Dr. H. H. GREEN'S SONS, Box D, Atlanta, GA.

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

ALABASTINE

1900 There is every good reason why St. Jacobs Oil should cure RHEUMATISM NEURALGIA LUMBAGO SCIATICA for the rest of the century. One paramount reason is—it DOES CURE. SURELY AND PROMPTLY. Illustration of a man in pain.

W. L. DOUGLAS \$3 & 3.50 SHOES UNION MADE. Worth \$4 to \$6 compared with other makes. Indorsed by over 1,000,000 wearers. Illustration of a shoe.

In 3 or 4 Years an Independence Is Assured. 160 ACRES IN WESTERN CANADA FREE. Illustration of a landscape.

RHEUMATISM Van Buren's Rheumatic Compound is the only positive cure. Past experience speaks for itself. Depot 33 S. California Ave., Chicago. A. N. K.—C 1812

PISO'S CURE FOR CONSUMPTION. CURES WHERE ALL ELSE FAILS. Best Cough Syrup. Quack Good. Use in time. Sold by druggists.

WALTHAM WATCHES The best and most reliable time keepers made in this country or in any other. "The perfected American watch", and illustrated book of interesting information about watches, will be sent upon request. American Waltham Watch Company, Waltham, Mass.

BABY'S BAWLS MAM-M-MA!! DON'T YOU HEAR BABY CRY? Do you forget that summer's coming with all its dangers to the little ones—all troubles bred in the bowels. The summer's heat kills babies and little children because their little insides are not in good, clean, strong condition. Winter has filled the system with bile. Belching, vomiting up of sour food, rash, flushed skin, colic, restlessness, diarrhoea or constipation, all testify that the bowels are out of order. If you want the little ones to face the coming dangers without anxious fear for their lives, see that the baby's bowels are gently, soothingly, but positively cleaned out in the spring time, and made strong and healthy before hot weather sets in. The only safe laxative for children, pleasant to take (they ask for more) is CASCARETS. Nursing mothers make their milk mildly purgative for the baby by eating a CASCARET now and then. Mama eats a CASCARET, baby gets the benefit. Try it! Send for a 10c box of CASCARETS to-day and you will find that, as we guarantee, all irregularities of the little and big childrens insides are CURED BY CASCARETS CANDY CATHARTIC BEST FOR THE BOWELS ALL DRUGGISTS 10c. 25c. 50c. To any needy mortal suffering from bowel troubles and too poor to buy CASCARETS we will send a box free. Address Sterling Remedy Company, Chicago or New York, mentioning advertisement and paper.