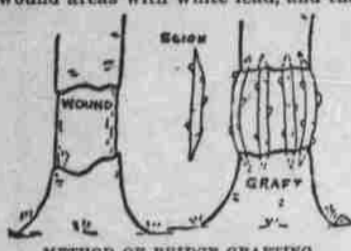


Farm and Garden

SAVING GIRDLED TREES.

Bridge Grafting a Remedy For Injuries Caused by Rabbits.

The injury done by rabbits to fruit trees in many orchards is discussed by J. G. Moore of the University of Wisconsin in the County Gentleman. When the circle is only three or four inches wide the tree may be saved by bridge grafting. Trees with large patches of bark removed entirely around the trunk cannot be successfully treated, though those not too badly injured may be saved by special treatment. Bridge grafting should be done in early spring, scions from healthy trees being selected. The torn edges of the wound should be cut off smooth and all badly loosened bark removed. The scion should be cut half or three-quarters of an inch longer than the wound and the ends of the scion pointed.



METHOD OF BRIDGE GRAFTING. (From the County Gentleman.)

may further be protected by binding with cloth. Care should be taken however, to see that the twine that holds the cloth is not so tight as to girdle the tree. After the bridge scions have become firmly established the cloth may be removed. The scions will continue to increase in size, and as they approach each other or the union of one scion to the other may be accomplished by shaving the sides of the scions. In time the whole girdled area may be entirely healed over in this way.

In some cases bridge grafting will not be necessary. If the inner bark has not been removed by the rabbits the tree may be saved by immediately protecting the girdled area before it has had time to dry out by wrapping with cloth which has been treated with grafting wax. The inner bark will then form an outer bark without serious injury. Where it can be used this method is better than bridge grafting. Trees on which the bark has been removed along the sides and not entirely around the trunk will be benefited by painting the wound. Before this is done, however, the rough edges of the bark should be removed so as to facilitate healing.

Cabbage Cultivation.

After setting out cabbage the plants require shallow, level cultivation until the crop matures. Too much cultivation cannot be given and especially after every rain should the ground be thoroughly stirred. A fine tooth horse cultivator is one of the most satisfactory implements for this purpose. At the Maine experiment station mulching the plants with straw or similar material in a dry season tended to increase the size of the head. At the Nebraska station also a straw mulch was found very beneficial.—Orange Judd Farmer.

Hog Marketing Record.

An Indiana farmer who recently purchased a motor immediately put it to good use in carrying a 450 pound hog a distance of six miles to market. He claims the world's hog marketing speed record.—Farm Press.

IN HAYING TIME.

Run the mower under cover every day after you have done with it. When the sky gets streaked, streak it for the barn with all the hay you have out.

Don't cut your meadows too close. Leave at least two inches of stubble. The best place for the horse rack when not in use is away from sun, shade, dew and rain.

Keep the mowers knives and the scythes all sharp. Save your own strength and that of the horse. If you left on the wagon overnight pitch it under a good deal harder. Get it off the same night if you can. Make the scythes close every day. Left out, they are not worth a great deal. Even a little moisture ruins them. Clover and timothy cut when in blossom make the best hay. The cattle think so, too, and that is why they never leave any of it in the manger. Look out and do not get too big a mouthful. The machines of our day cut grass fast, and it takes time to cure it and get it up. Be moderate about mowing.

As nearly as you can clear up the fields at night. Then if you wake up you can turn over and go to sleep without having to say "Oh, dear; there's all that hay getting wet!"—Farm Journal.

FOR CHURNING RESULTS.

Close Attention Always Necessary to Realize the Best. There can be no definite rule laid down as to the temperature at which the cream should be churned, as different creams require different temperatures. The fat is in the form of microscopic globules, and they must have a certain degree of softness if they are to unite. When the cream enters the churn it is properly ripened and contains 26 to 30 per cent fat the temperature should be such that the cream will churn in thirty to forty-five minutes. This will give an exhaustive churning and leave the butter in a condition in which it can be easily handled without injuring the texture. Before putting the cream in the churn the cream should be thoroughly acidified and as thoroughly chilled with cold water. The advantage of this is that it will freshen the cream and fill the pores in the wood so that the cream and butter will not stick to it. The outside temperature of the churning room should be as nearly as possible the same as the churning temperature. It is in warm the cream will

warm up rapidly and the curd will likely be soft and will require more washing to remove the buttermilk.

It is useless to lower the cream rapidly to the churning point just before churning. It should be there at least two hours before churning. The reason for this is that fat is a slow conductor of the heat, and although the cream has cooled and the thermometer reads the right temperature, the fat has not actually reached it, and the results would be the same as if churned at an actually higher degree.

RATIONS FOR THE CALF.

Feeding the Youngsters Too Early May Prove Injurious.

It is well to leave the calf by itself for at least twelve hours and, in case the calf has run with its mother for several days, possibly twenty-four hours. Attempts to feed the calf earlier than this usually do the calf no good and may injure the feeder's reputation. Such is the opinion of an authority on dairy matters. If the calf's muzzle is held in the milk and the milk is not dried once so that it tastes the milk it will drink without the feeder being obliged to place his hand in its mouth.

The Calf is Unable to Handle Hay or Grain Until It is a Week or Ten Days Old.

During this period it is not wise to try to feed skim milk. At first the whole milk should be fed three times a day—four pounds in the morning, two pounds at noon and four pounds at night—at good temperature. For about a week or ten days the calf can be fed twice daily. During this time the allowance of whole milk can be gradually increased to about twelve pounds. This amount depends somewhat on its ability to handle increased quantities.

The stomach of the young calf is very delicate, and all changes should be made gradually. When about two weeks the calf, if a strong, vigorous one, can be gradually changed to skim milk. During the first day decrease the amount of whole milk one pound and add one pound of skim milk, and so on each day until the change is complete. Previous to this the calf should have a little grain corn or alfalfa meal or a little mixture of both placed in its mouth immediately after drinking its milk. In this way it gets a taste of the grain and will soon go to the feed boxes and eat with a relish.

The appearance of the calves affected by this early blight is shown in the illustration. This fungus does not ordinarily attack healthy, vigorous potato leaves. However, the destructive spread of the disease does not begin until the plants have passed their stage of greatest vigor. This occurs soon after the blossoming period and when the plants are forming tubers rapidly. The blight made by the early blight at this time being very disastrous. This fungus does not attack the tubers directly, however, and never causes them to rot.

THE VALUABLE SEPARATOR.

Care Should Be Exercised to Keep This Instrument Clean.

The cream separator enters into the matter of the production of pure cream as one of the greatest factors of cleanliness. To insure the production of cream free from bacterial infection to the greatest degree it is necessary to exert the greatest care in the keeping clean of the separator. Although the average housewife on the farm may not have the means of testing the cream for bacterial infection, there are a number of points which do not require much agitation of the subject.

The separator must be washed after each and every separation if the greatest care is to be exercised, and at least once a day if freedom from extensive bacterial infection is desired. Many cases are familiar where no further washing is made other than that of flushing the machine out with hot or cold water. With this manner of washing it is impossible to keep clean and free from bacteria any separator.

Not only does cleanliness in the matter of washing exert great influence, but it is necessary to locate the separator in a place that is sanitary as well as convenient. Too often the separator is forgotten; too often does the farmer place his separator where it will be the hardest for him with thought whatever the sanitary conditions surrounding.

Not only do undesirable bacteria, preexistent in their nature, fall into the milk and cream, but the odors of an unclean stable are absorbed by the cream. The volatile fats of butter fat, containing the greatest amount of the fat, are also very readily absorbed that may be associated near the cream. Thus to insure a cream free from odors or taints it is impossible to place the separator anywhere but in a clean place without injuring the quality of the cream. Thus the separator exerts much influence in the keeping clean of cream. Since its introduction the separator has revolutionized the cream business, but it has not eliminated that great factor of cleanliness.

Hogs Pay For Keeping.

No animal on the farm is better adapted to turning good feed quickly into marketable meat than the hog, and none can better repay from a market standpoint a discriminating system of feeding. This is particularly true as to first cost, for the hog is by its nature planned to utilize the least expensive feeds and will manufacture into toothsome pork much that might otherwise be reckoned of little value. If not waste, in any phase of farm economy the hog is a feature, and his proper feeding has in innumerable instances been the factor that kept a farmer's profit on the right side of the ledger.

MAKING WAR ON THE RAT.

Government Advises Farmers to Use Concrete in Building Construction. The United States department of agriculture, discussing the extermination of rats, strongly advocates the using of concrete for the construction of barns and other buildings. The importance of this precaution cannot be overestimated. When the immense loss caused annually by these vermin is considered the need of stopping their depredations is more clearly realized. It has been repeatedly stated on good authority that every rat in the country causes an annual poverty loss of over \$1. The total rat loss of this country will never be known, as their number cannot be even roughly estimated. The department of agriculture says: "The best way to keep rats from building, whether in the city or in the country, is by the use of concrete. In constructing dwellings houses the additional cost of making the foundations rat proof is slight,

as compared with the advantages. The cellar walls should have concrete footings, and the walls themselves should be laid in cement mortar. The ceiling floor should be finished rather than plain concrete, and all water and drain pipes should be surrounded with concrete.

"Hat holes may be permanently closed with a mixture of cement, sand and broken glass or sharp bits of crockery or stone. The space between the sheathing and lath to the height of about a foot should be filled with concrete. "Granaries, corncribs and poultry houses may be made rat proof by a liberal use of concrete in the foundations and floors. For a rat proof crib, well drained, the floor should be chosen. The outer walls, laid in cement, should be sunk about twenty inches into the ground. The space within the walls should be thoroughly grouted with cement and broken stone and finished with rich concrete for a floor. Even this the structure may be built. Even the walls of the crib may be of concrete. Corn will not mold in contact with them provided there is good ventilation and the roof is water tight."

Keep Celery Growing.

Celery should be kept growing rapidly and without interruption. A celery plant will often make the plant go to seed instead of producing edible stalks. The deboned animal is safer to handle and of a more peaceable disposition. The defenseless beast has no particular inclination to fight when powerless to do much harm.

Useful to Follow Another or Replace One That Has Been Destroyed.

When a catch crop becomes necessary one of the first that is thought of is millet. This crop does not have a high feeding value, as it is apparently too rich in oil. At the same time it is very useful to follow another crop or as a catch crop to replace one that has been destroyed. It matures quickly and, in combination with other feeds, has an undoubted value.

There are many varieties, and in general they are well adapted to our soil.

The most important groups of cereals, as they are the staple diet of about one-third of the world's human population. In the old world they are grown as cereals, but in America at least entirely as forage. The true millet is sometimes called the brown millet. Another variety is the foxtail millet, and still others are the barnyard millet and Japanese, the African, the Chinese, the Indian and pearl or cut tail millet. The foxtail variety includes the German and Hungarian millets which are most commonly grown in this state.

For several years past there seems to have been a considerable increase in interest in millet as a pasture crop in western Kansas. When sown for such a purpose about twice the usual amount of seed should be used. As it is a heavy feeder and draws upon the nitrogen element of the soil it is sold as a top dressing for other crops. It is best adapted for its growth, are rich in humus. Swamp lands or slough lands and much milk which can be drained so as not to be too wet are best for this crop, though it may be successfully grown on dry soils which do not get too dry.

Clay soils are not good for millet because they lack a smaller quantity of seed may be used, as the plants will better.—Kansas Farmer.

FOR FEEDING PURPOSES.

	1900	1901	1902
Wheat	51.92	47.61	50.16
Corn	35.29	32.62	34.74
Oat	12.15	11.53	12.00
Hay	12.97	11.29	12.08
Barley	31.20	32.22	33.00
Potatoes	25.56	34.78	35.81

OUR BEST APPLE TREE.

The Frazer of the Walla Walla Valley, Wash., is the World's Champion. Experienced growers predict that the Frazer apple tree, growing in the Walla Walla valley, near Walla Walla, Wash., southwest of Spokane, will yield between 120 and 200 bushels of fruit this year, thus breaking its record of 129½ bushels in 1907, the highest production from a single tree known anywhere in the world. The tree bore seventy bushels in 1906, forty-two bushels in 1908 and forty-five bushels in 1909. More than 500 barrels of fruit have been picked from its limbs since it came into bearing in the spring of 1871.

The tree was grown without irrigation from a seedling planted by Daniel R. Frazer in 1868, two years after he settled in the valley. It is forty-two feet in height, and its branches spread fifty feet from tip to tip. The trunk is seven feet in circumference at the base and measures six feet six inches just below the first limb, which is four feet from the ground and measures four feet seven inches. The tree is sound and healthy despite the fact that it has produced fruit every season for nearly forty years.

Professor W. S. Thornber, horticulturist of the Washington State college, and R. A. Jones, a practical orchardist of Spokane county, described the tree as follows: "The fruit is medium to large, roundish, oblate, irregular and slightly ribbed. The cavity is deep, broad, sunken and slightly wavy. The stem is short and heavy. The basin is narrow, abrupt, deep and wavy. The calyx is half open to closed.

"The color is yellowish green, faintly tinged with reddish purple in sunshiny places, but it is irregular and green and russeted. The flesh is yellowish white, mellow, juicy, coarse grained, of a mild subacid to sweet flavor and of fair quality.

"The cup is conical, stemless medium, core large, closed seeds, few dark brown and plump. The season is early to medium winter."

Mistakes With the Potato. One reason why potatoes have deteriorated in the past is that the potato growers of the United States have planted their seeds and screenings under the erroneous impression that such methods in seed selection would save as good results as any other. Farm Progress.

has just, and this has reference to practically all cereals in which grades are recognized. One of the big terminal elevators in a Minnesota city, the destination of the wheat shipped from the small local elevator, took in in the past week 4,000,000 bushels of No. 2 wheat, 4,000,000 bushels of No. 2 and 8,000,000 bushels of No. 3. This wheat must have been subjected to some marvelous process of improvement, for when this total of 15,000,000 bushels of wheat was forwarded there were 5,000,000 bushels of grade No. 1, 4,000,000 bushels of No. 2 and 3,000,000 bushels of No. 3. This kind of stull-juggery probably passes under the name of business, but in reality is wholesale robbery, and it should be cleaned and treated as such.

Crescent

Occasional other cereals, while it is necessary that a family observe rational economy to make both ends meet. When that time comes the good wife should not be the only one expected to practice the virtue. It should stimulate the husband to endeavor as well as a new spring board.

There are many supposedly respectable people who wouldn't admit their neighbors' purse or sleep who fall asleep when it comes to the matter of butter fat. This is just the same kind of cussedness, only smaller and more contemptible, for it is practiced under the guise of an activity which is lawful and decent.

Farmers Buying Autos, Not Bonds.

Wall street has been watching with growing eye the success of the automobile makers in disposing of their wares to the farmers. For the most part, at least, securities are out of favor, although, if the figures just made public by the department of agriculture regarding the growing purchasing power of the farmer may be taken as a criterion, after each farmer has his mind on disposing of their wares to the farmers. For the most part, at least, securities are out of favor, although, if the figures just made public by the department of agriculture regarding the growing purchasing power of the farmer may be taken as a criterion, after each farmer has his mind on disposing of their wares to the farmers.

"Must Be Above Suspicion." Kidney and bladder ailments are as serious in their consequences, and if unchecked so often fatal that any remedy offered for their cure must be above suspicion. Foley Kidney Pills contain no harmful drugs, and have successfully stood a long and thorough test. For sale by Conrad Stahrin.

Produce what the consumer wants when you are placing a product on the market. That's the secret of good prices and a brisk demand.

"Foley Kidney Pills Have Cured Me." The above is a quotation from a letter written by H. M. Winkler, of Evansville, Ind. "I contracted a severe case of kidney trouble. My back gave out and I was unable to do any work. I bought Foley Kidney Pills and after using them a few days I was cured. My back is now as good as new. I feel like a new man. Foley Kidney Pills have cured me." For sale by Conrad Stahrin.

The dairyman will be successful with cows to extent that he is able and willing to maintain summer conditions throughout the year.

BURDEN LIFTED

From Dallas Backs—Relief Proved by Lapse of Time.

Backache is a heavy burden; Nervousness wears one out; Rheumatic pain; urinary ills; All are kidney burdens. Quick relief and prompt cure results. For burns, boils, sores of all kinds, eczema, chapped hands and lips, sore eyes or corns, its supreme Surest cure, 25c at all druggists.

Southern Oregon has a wonderful berry crop this year. Logan berries, phenolics, red and black cap, raspberries all bearing heavily.

Work 24 Hours a Day. The busiest little things ever made are Dr. King's New Life Pills. Every pill is a burst of energy into strength, vigor and health.

Legal blanks for sale at this office. Beware of Obtaining for Catarrh of the Nasal Mucous Membrane, as mercury will surely destroy the sense of smell and completely derange the whole system when entering it through the mucous surfaces. Such articles should never be used except on prescriptions from reputable physicians, as the damage they will do is ten fold to the good you can possibly derive from them. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, O., contains no mercury, and is a purely internal, acting directly upon the mucous membrane of the system. Buy Hall's Catarrh Cure as sure you get the genuine. It is taken internally and made in Toledo, Ohio, by F. J. Cheney & Co. Testimonials free. Sold by druggists. Price, 75c per bottle.

Take Hall's Family Pills for constipation.

Legal blanks for sale at this office. Kill the Cough and Cure the Lungs. WITH Dr. King's New Discovery FOR COUGHS, COLDS, AND ALL THROAT AND LUNG TROUBLES. GUARANTEED SATISFACTORY OR MONEY REFUNDED.

Legal blanks for sale at this office. Arthur Starr, Proprietor. DALLAS, OREGON.

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Administrator's Final Notice.

In the County Court of the State of Oregon for Polk County. In the matter of the estate of Thomas H. Denny, deceased. Notice is hereby given that the undersigned administrator, has filed the above named account, and his final account in said estate, and the above named Court has fixed the 20th day of July, 1910, at the hour of 1 o'clock P. M. at the county court house in Dallas, Polk County, Oregon, as the time and place for hearing said account and all objections thereto, and directing the County Observer, published at Dallas, Polk County, Oregon, for four consecutive and successive weeks prior to said date.

The first publication of this notice is printed in the issue of June 24, 1910. Administrator of the estate of Thomas H. Denny, deceased.

A Few Short Weeks. Mr. J. S. Bartlett, Edwardsville, Ill., writes: "A few months ago my kidneys became congested. I had severe backache and pain across the kidneys and hips. Foley's Kidney Pills promptly cured my backache and restored the action of my kidneys. This was brought about after using them for only a few short weeks and I can only too heartily recommend them." For sale by Conrad Stahrin.

The more experience a man has with the milk, the better he likes it.

"Is Life Worth Saving?" Mrs. Mollie McIntyre, Prentiss, Miss., writes that she had a severe case of kidney and bladder trouble, and that four bottles of Foley's Kidney Pills promptly cured her sound and well. She closes her letter by saying: "I heartily recommend Foley's Kidney Pills to any sufferer of kidney disease. It saved my life." For sale by Conrad Stahrin.

When a milkman can talk to his cow as he does to his best friend he is in a way to succeed in the dairy business.

Hay Fever and Asthma. Bring discomfort and misery to many people but Foley's Honey and Tar gives ease and comfort to the suffering ones. It relieves the congestion in the head and throat and is soothing and healing. None genuine but Foley's Honey and Tar in the yellow package. For sale by Conrad Stahrin.

A good remedy in a town means prosperity for the farmers and the business men. The cow is the cause of it all too.

"Must Be Above Suspicion." Kidney and bladder ailments are as serious in their consequences, and if unchecked so often fatal that any remedy offered for their cure must be above suspicion. Foley Kidney Pills contain no harmful drugs, and have successfully stood a long and thorough test. For sale by Conrad Stahrin.

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Take Hall's Family Pills for constipation.

A Cough, A Cold

And then no telling what—unless you use Dr. Bell's Pine-Tar-Honey. It is the best, ask your neighbor. Look for the Bell on the Bottle. Sold everywhere. For sale by Conrad Stahrin.

Summer Colds. Are harder to relieve than winter ones but they yield just as readily to treatment with Dr. Bell's Pine-Tar-Honey. Sold everywhere. Look for the Bell on the Bottle. For sale by Conrad Stahrin.

Cocquille is building a lot of concrete walks.

Old Ulcers. Are unsightly and dangerous. Dr. Bell's Antiseptic Salve will heal them promptly. It is clean and pleasant to use. 25c a box, sold everywhere. For sale by Conrad Stahrin.

All Skin Diseases. Yield readily to treatment with Dr. Bell's Antiseptic Salve. We guarantee it. 25c a box, sold everywhere. For sale by Conrad Stahrin.

Chronic Sore Eyes. Are easily cured with Sutherland's Eagle Eye Salve. It is painless and harmless and guaranteed. 25c a box, sold everywhere. For sale by Conrad Stahrin.

Lane county hog growers will sprout earlier and more plentiful than heretofore.

Dr. Bell's Anti-Pain is both an internal and external remedy. It is an antiseptic and destroys disease germs. Sold everywhere on a positive guarantee. For sale by Conrad Stahrin.

Merrill is excited over the prospect of the S. P. building a road to that town. There is a resourceful region around it.

Napoleon's Grit was of the un conquerable, never-say-die kind, the kind that you need most when you have a bad cold, cough or lung disease. Suppress coughs, cough sprays, cold liver oil or doctors' pills. Don't fail, don't lose heart or hope. Take Dr. King's New Discovery. Satisfaction is guaranteed when used for any throat or lung trouble. It has saved thousands of hopeless sufferers. It masters stubborn coughs, obstructed nostrils, hemorrhages, hiccups, croup, asthma, hay fever and whooping cough and is the most safe and certain remedy for all bronchial affections. 50c. Trial bottle free at all druggists.

Forest Grove has not an idle man in it. There are some idle loafers but real men who want work are all busy, says the News.

These Pies of Boyhood. How delicious were the pies of boyhood. No pies now ever taste good, what's changed? The pie? No, my you. You've lost the strong, healthy stomach, the vigorous liver, the active kidneys, the regular bowels of boyhood. Your digestion is poor and you blame the food. What's needed? A complete tonic up by Electric Bitters of all organs of digestion—Stomach, Liver, Kidneys, Bowels—Try them. They'll restore your boyhood appetite and appreciation of food and fairly saturate your body with new health, strength and vigor. 50c at all druggists.

Nevada's regular population of about 4,000 was greater on July 4.

A Frightful Wreck. of train automobile or buggy may cause cuts, bruises, abrasions, sprains or wounds that demand Bucklen's Arnica Salve—earth's greatest healer. Quick relief and prompt cure results. For burns, boils, sores of all kinds, eczema, chapped hands and lips, sore eyes or corns, its supreme Surest cure, 25c at all druggists.

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Everybody Satisfied. Who has tried Dr. Bell's Pine-Tar-Honey for coughs, colds, grippe or throat or bronchial trouble? Look for the Bell on the Bottle. For sale by Conrad Stahrin.

What They Will Do For You. They will cure your backache, strengthen your kidneys, correct urinary irregularities, put up the worn out tissues, eliminate the excess uric acid, that causes rheumatism, prevent Bright's Disease and Diabetes, and restore health and strength. Refuse substitutes.

PROFESSIONAL CARDS. ATTORNEY AT LAW. OSCAR HAYTER. Rooms 5 and 6, Union Block, Dallas.

ATTORNEY AT LAW. N. L. BUTLER. Office over Dallas City Bank, Dallas.

ATTORNEY AT LAW. WALTER L. TOOZE, JR. Office in Wilson Bldg., Dallas.

ED. F. COAD. Office in Courthouse, Dallas.

I. D. BROWN. Abstracts promptly made. Notary Public, Collection. 1311 St. Downstairs, Dallas, Tex.

SIBLEY & EAKIN. The only reliable set of Adams Polk County. Office on Court St., Dallas, Tex.

DRAUGHTSMAN. Topographical drafting and plan of all kinds readily and accurately done. Special attention to town maps, orchard, tracts, subdivision, etc. Land areas plotted and computed. Maps a specialty. JOHN R. SIBLEY, Office with Sibley & Eakin, 1310 Court Street, Dallas, Oregon.

F. M. HELLWORTH. PHYSICIAN & SURGEON. Office over Postoffice, Falls City.

M. HAYTER. Over Stahrin's Drug Store, Dallas.

M. OLIVE SMITH. Teacher of PIANO AND ORGAN. Studio, Room No. 2, Wilson Bldg., Dallas.

R. L. CHAPMAN. FUNERAL DIRECTOR AND EMBALMER. Calls promptly answered day or night. Dallas.