

OF INTEREST TO FARMERS

"The Strawberry Planation Acute Mammitis Ruins the Udder"

Whatever else is neglected, one should not fail to start a strawberry plantation during the spring. Any fairly dry are not stand during the winter to frost ice.

Manure at the rate of ten to fifteen tons per acre may be applied and plowed under, or even more may be used to advantage if no other fertilizers are to be used. It is usually considered wise to apply five hundred pounds of 4-4 fertilizer per acre. That is one containing 4 per cent of nitrogen, 8 per cent of phosphoric acid and 4 per cent of potash. However if the soil is in good fertility this is not necessary and manure alone may be all that is necessary. All fertilizers should be scattered broadcast and harrowed in.

Through pre-paration of the soil by plowing and working deeply is advisable. The land is finally leveled with a smoothing harrow and the plants set in rows three and a half feet apart and fourteen inches apart in the row. Closer planting is unnecessary as does not permit any cultivation between the rows and opportunity of picking without tramping on the vines.

The planting is done by pushing a spade into the soil, pressing it to one side and dropping a plant with roots spread fan shape into the opening, holding the crown of the plant to the top of the level soil and pressing the earth firmly round the plant with the heel of some other way, and finally leveling with loose earth around the crown of the plant. This quickly done. The importance of pressing the soil firmly around the plant is very great and the plant should be sufficiently firm, so that if the plant is pulled by a leaf the leaf will break before the plant will pull out. Only young plants should be set; that is, plants of the previous season's growth. The planting should be done early. In fact, the earlier the better. Much of the failure with strawberries is due to late planting. This is a job that can be done in the early spring, the earlier the plant becomes established the earlier the formation of runner plants, and the earlier these runner plants form, the larger and better developed are the crowns, without which strong stalks of well formed fruit are impossible.

Other causes of this disease are invasion of the udder by pus germs (streptococci) from the blood stream or lymphatics, or which may enter by way of a wound or abrasion, or a severe bruise of the udder or be carried by a milk tube, dilator, or bicturey (teat) slitter, which has not been cleaned and disinfected by boiling for 20 minutes each time before use. Discharges from the vagina of a cow that has aborted, or expelled a dead and decomposed calf or retained her afterbirth, and become affected with pyometra getting on to her teats may also cause the infection. There can also be little question that germs are always more or less prevalent in the udder and may therefore cause this form of mammitis as a sequel to an attack of the simpler form of inflammation.

An affected cow should be isolated at once and the stall she has occupied at once cleaned, disinfected and whitewashed. The milk, or abnormal fluid from her udder should be caught in a pail containing a disinfecting solution and then disposed of in such a way that it cannot cause infection. The veterinarian should give the cow hypodermic injections of masticin bacterin and many consider it advisable to irrigate the udder with mild warm-water solution of boric camphorphenique or a mixture of acetic acid. Other treatment consists in frequent stripping of the equal parts of carbolic oil, camphorated oil and compound soap liniment. Iodine ointment and mercurial ointment may have to be used later. Despite all that can be done, however, perfect recovery from such an attack is extremely rare.

Chick Houses

The houses in which chicks are brooded and reared should be such as to promote the most efficient growth. While they should provide protection from the weather, they should also be well ventilated. Chicks do not do well if kept in houses where the atmosphere is stuffy. At the same time there should never be a direct draught passing through the house. The main object should be to make the house as comfortable as possible for all occasions.

The houses should be economical and convenient. Each house should be large enough to accommodate about 50 matured chickens without crowding, a house six by eight feet, will do nicely. Although the same house would accommodate 100 or more chicks with a hooder. A house, eight by twelve feet, would accommodate at least 150 chicks and 75 half-grown chickens. After the chicks are ten or twelve weeks old their numbers should be decreased gradually, until there are the right number for the house because as the chickens grow the less can the house accommodate. After the chickens are twelve weeks old they should be provided with roosts. Keep the floor provided with plenty of clean litter and keep the house sanitary. Provide plenty of ventilation without draughts and do not overcrowd the chickens.—M. A. J.

Direct spotlight to the light. Raising? Use the tire chains for safety.

Summer Heat Hard On Baby

No season of the year is so dangerous to the life of little ones as the summer. The excessive heat throws the little stomach out of order so quickly that unless prompt aid is at hand the baby may be beyond all human help before the mother realizes he is ill. Summer is the season, when diarrhoea cholera infantum dysentery and colic are most prevalent. Any one of these troubles may prove deadly if not properly treated. During the summer the mother's best friend is Baby's Own Tablets. They regulate the bowels, sweeten the stomach and keep baby healthy. The Tablets are sold by medicine dealers or by mail at 25 cents a box from Dr. Williams' Medicine Co., Brockville, Ont.

The liberal use of disinfectants such as commercial coal-tar dips is useful in reducing the dangers from colds, roup and other troubles. An old poultry house is apt to harbor some of the germs of disease even under the best of conditions. By frequent spraying, a film of disinfectant is placed over the interior of the house and many of the germs are sealed up and killed. The saving of one bird will often pay for enough commercial dip to last a year. The time used in spraying may seem more valuable for other work but that is seldom true.

TREAT HOGS KINDLY

Be friendly with your hogs. Have them so that they are not afraid of you. You will be repaid for this when you have to handle them at farrowing time, at which time they are most apt to be distrustful and nervous. Remember in this connection that a pig is a mammal sow, in common with other pregnant females, requires the best of care and consideration, and that she may be seriously injured by causes that do not occur to the thoughtless man. For instance, she should not be forced to drag herself over low or too narrow through doors too low or too narrow for her, because these things may cause abortion and the farrowing of dead pigs. For the same reason, do not keep sows together that are continually fighting one another. Keep her away from the rest of the herd.

Chard for Summer Greens

When cutting for greens, remove the outer leaves and stems, leaving the roots and hearts of the plants to produce additional supplies. The thick leaf-stems are cooked the same as other greens. As chard is ornamental as well as useful, it may be planted as a border, for effect, instead of in rows.—A. B. C.

Never Had Time

There was an old fellow who never had time For a fresh morning look at the Volume Sublime; Who never had time for the soft hand of prayer To smooth out the wrinkles of labor and care; Who could not find time for that service most sweet, At the altar of home, where the dear ones all meet, And never found time with the people of God, To learn the good way the fathers had trod, But he found time to die; oh! yes, he found time to die.

EGG BOUND

Sometimes especially in the spring of the year, hens become egg bound, that is, the hen is unable to force the egg from the oviduct. The trouble may be detected by the fact that the hen continues to remain on the nest without laying and appears in the act of straining to lay. The hen may even get off the nest and continue to strain. Frequently the bird may appear to be lame or in pain.

The egg bound condition may arise from several causes, such as inflammation of the oviduct, paralysis of the oviduct, or an abnormally large egg in the oviduct. By way of relief it is usually possible to insert the fingers, anointed with carbolic vaseline, into the oviduct, and by manipulation with the other hand force the egg out. The hen may be held with the rear end over a pail of steam-heated water. Sometimes it is necessary, however, to insert a stiff, round, pointed wire and carefully break the shell of the egg to remove it in parts.—M. A. J.

Love and Machinery

The man who does not love his farm machinery never ought to have any. He ought to be compelled to do his plowing with a crooked stick and brush his grain with the top of a tree, because the will let his tools rot and rust out in the fence corner and laugh at you when you tell him there is a better way. Love takes care of the plows and binders and the threshing machines. Nothing else will.—Farm Life.

Good Health Can Be Yours

IF YOUR BLOOD SUPPLY IS KEPT RICH AND RED

It is a waste of time and money to fight merely the signs of disease; in the long run you are probably worse off than when you started. What is far more important is that you should intelligently examine the various symptoms and trace the cause. When you remove the cause, health will be yours. For example, anemic people often endure months of suffering while treating its symptoms, such as indigestion, shortness of breath, palpitation of the heart and exhaustion after any small effort.

The apparent stomach and heart troubles are generally nothing more than the result of an insufficient supply of pure blood. This anemic state may have followed some previous illness, or an attack of influenza; or it may have arisen from overwork, worry or too little fresh air. To obtain good health the simple and proper course is to build up the blood, but to do this you must select a reliable remedy with a reputation such as Dr. Williams' Pink Pills. These pills enrich the blood which carries nourishment to all the organs of the body and enables them to do the work nature expects of them. Thousands of men and women have proved this for themselves. One of these is Mrs. T. Flynn, R. R. No. 1, Erinville, Ont., who says: "Last spring I got into a badly run down condition. I had no energy, work left me exhausted and the least exertion would make my heart palpitate violently. I had often read of Dr. Williams' Pink Pills, and decided to give them a trial and got a half dozen boxes. I had not been taking the pills long when I felt a decided improvement in my conditions and by the time I had used the six boxes I could do my housework with ease. I can strongly recommend Dr. Williams' Pink Pills to all weak people."

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From "Hide and Leather," Chicago

The recent effort—fortunately defeated—to put hides and skins on the dutiable list of the new tariff bill, was alleged to have been dictated by farmers. Farmers believe that by taxing imports of hides, domestic take-off would be inflated in value and result in more money being paid for cattle and for hides flayed by farmers. It was a clumsy effort and deservedly failed. But Hide and Leather is full of sympathy with all legitimate efforts of farmers to get profitable prices for their products, would suggest that they could get more for their cattle and hides by operating to stamp out the serious evil of grubby hides.

Making Marsh Gas Works

On a Surrey, England, farm a wonderful experiment is being carried out in producing gas from a new source.

It is nothing less than the churning of the will of the wish which is one form of marsh gas. It was discovered during the war that marsh gas could be produced in quantities sufficient to be of practical use, whether for heat or power. Almost all manure, whether from the farmyard or from leaves or other rotting vegetation, gives off at a certain stage large volumes of marsh gas. A building has now been assigned into which the manure is pitched at the right time, and the gas forming above it is taken off and measured. A double purpose may be thus served. The manure is protected from the weather and does not lose its valuable qualities, and the gas from it may be employed to run the machinery of the farm. It is at present a little fickle. Sometimes the quantities are great, sometimes small; but the cause of the variation is being probed and great results are expected. Already in moderately favorable conditions quite enough gas is used to make a market for the gas. There is indeed no inherent reason why every farmer should not make his own gas without the use of coal. Almost no apparatus beyond an airtight reservoir and a pipe is needed.

Making Over Paper

Through chemical processes for the reclamation of printed book paper have been in use for some time, but the mechanical pulping forces the ink permanently into the fibers, says Popular Mechanics Magazine. By a mixture of 10 pounds of borax, ten pounds of soap, two gallons of kerosene and two gallons of pine oil is used for soaking 2,000 pounds of stock, with enough water to make a 3 to 4 per cent pulp. The beater used pulls the stock apart gently, with a minimum breakage of the fibers, and the process is continued for an hour or less, with the pulp heated to from 165 to 190 degrees F. by live steam. The separated ink and chemicals are then washed away by the usual method and the reclaimed pulp is ready to be bleached.

A Great Waterspout

Particulars are published in a scientific publication of a great waterspout that a correspondent observed south of Cape Comorin on a day when the weather was fine and the sea smooth. The waterspout formed between a russet-gray cloud and the sea nearly five miles from the ship. At first the distance between the base of the cloud and the surface of the sea was 4,600 feet, and the width of the column tapered from 500 feet at the sea. The vortex appeared to be a tube with tapering sides and a central column. The walls seemed to consist of water moving downward and the central column of water ascending. The phenomenon lasted for thirteen minutes; then the walls broke and the central column appeared to ascend into the cloud.

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Love and Machinery

The man who does not love his farm machinery never ought to have any. He ought to be compelled to do his plowing with a crooked stick and brush his grain with the top of a tree, because the will let his tools rot and rust out in the fence corner and laugh at you when you tell him there is a better way. Love takes care of the plows and binders and the threshing machines. Nothing else will.—Farm Life.

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The apparent stomach and heart troubles are generally nothing more than the result of an insufficient supply of pure blood. This anemic state may have followed some previous illness, or an attack of influenza; or it may have arisen from overwork, worry or too little fresh air. To obtain good health the simple and proper course is to build up the blood, but to do this you must select a reliable remedy with a reputation such as Dr. Williams' Pink Pills. These pills enrich the blood which carries nourishment to all the organs of the body and enables them to do the work nature expects of them. Thousands of men and women have proved this for themselves. One of these is Mrs. T. Flynn, R. R. No. 1, Erinville, Ont., who says: "Last spring I got into a badly run down condition. I had no energy, work left me exhausted and the least exertion would make my heart palpitate violently. I had often read of Dr. Williams' Pink Pills, and decided to give them a trial and got a half dozen boxes. I had not been taking the pills long when I felt a decided improvement in my conditions and by the time I had used the six boxes I could do my housework with ease. I can strongly recommend Dr. Williams' Pink Pills to all weak people."

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Potato Seed Source Lest

BY S. G. Peppin

The fourth annual potato Seed Source Test inspection tour held in Suffolk County, Long Island, N. Y., on June 29th and 30th proved to be a great success. It was well attended by seed potato growers, county agricultural agents, plant pathologists, workers from New York, New Jersey, Vermont, Maine, New England States and Canada. The object of these tests is to demonstrate to the farmers of Suffolk County and others, where the best seed can be located as well as to show the losses in yield caused by the various diseases when grown under Long Island conditions. There were over sixty different strains entered in the official Green Mountain test from New York, Maine and Canada. The half bushel sample sent of each lot is cut and divided into two equal parts and planted in separate tests in different parts of the County. At a suitable time the inspection of the growing plants is done by the Department of Plant Pathology of Cornell University.

Eight samples in all were entered from Canada, five which came from Prince Edward Island, and three from New Brunswick, three were also ones lot taken from ordinary Canadian market stock. From a disease standpoint, the Prince Edward Island seed showed up remarkably well, two of the lots being absolutely free from mosaic and leaf roll, the two diseases which the Long Island grower fears mostly on account of the loss of such plants is present in the seed which he buys. The average amount of disease present in the five Prince Edward Island samples was 2 per cent mosaic, 8 per cent leaf roll, weak plants were also scored as well as black leg and foreign varieties. There was an average of 3 per cent and 1 per cent black leg.

Three strains entered from New Brunswick showed an average of 4.2 per cent mosaic, 0.0 per cent leaf roll and 2.2 per cent weak plants.

The result of the whole test are shown in Table I.

Source	No. of strains entered	Percent disease present		
		Mosaic	Leaf Roll	Weak
Vermont	16	10.2	5.0	4.3
New York	61	2.0	2.0	4.0
Maine	6	22.5	3.7	2.3
Canada	7	1.4	0.6	2.8

Results of field inspection of disease present in any one lot came from Maine with 96 per cent mosaic.

Twenty different strains were entered in the official Irish Cobler test, two of which came from Prince Edward Island. The results of this test are shown in Table II.

Results of field inspection of Irish Cobler test.

Source	No. of strain entered	Percent disease present		
		Mosaic	Leaf Roll	Weak Foreign
Vermont	1	0.2	4.3	0.2
New York	2	0.7	7.0	0.0
Maine	9	0.0	1.4	0.1
New Jersey	3	0.0	2.3	1.3
Canada	2	0.0	0.5	1.0

It will be seen from the figures that in both tests the Canadian seed is the best from a disease standpoint, while this is a very important point in our favour, and one which the Division of Botany of the Experimental Farms System has been emphasizing for some years past, nevertheless, there are other points which require our growers' careful attention before they can hope to compete successfully with other seed producing areas. One of these points was convincingly brought to our notice in the results obtained in last year's Long Island Test, and it is the Production of High Yielding Strains. Our seed growers must take the utmost care to select for high yield, and in no other way can they hope to build up and keep a market for their seed stock. Yield is what the buyer of our seed stock wants, and in Vermont, and New York with high percentages of disease permanently assured.

can keep the yielding powers of their seed above ours, as shown by the test last year, it stands to reason that their product will be bought by the seed buyers in preference to stock with low yielding powers.

All seed growers should maintain a seed plot every year, the object being to propagate only the highest yielding hills, all weak, diseased and poor yielding hills being continually watched for and eliminated.

It was evident that Prince Edward Island has been placed on the map as a source of good seed potatoes. As on all sides during the inspection tour could be heard favorable comments on the apparent curable quality of our seed in the field. If our seed growers will eliminate the poor yielding hills from their seed as suggested above and in Vermont, and New York with high percentages of disease permanently assured.

Confer was originally simply to carry with.

Jude originally signified any rude person without regard to sex.

GIRLS! LEMONS BLEACH SKIN WHITE

Squeeze the juice of two lemons into a bottle containing three ounces of Orchard White, which any drug store will supply for a few cents, shake well, and you have a quart of pint of harmless and delightful lemon bleach. Massage this sweetly fragrant lotion into the face, neck arms and hands each day, then shortly note the beauty and whiteness of your skin.

Famous stage beauties use this lemon lotion to bleach and bring that soft, clear, rosy-white complexion, also as a freckle, sun burn, and tan bleach because it doesn't irritate.

Poultry raisers must learn to understand, they must not provide hens with mixtures containing too much fattening and heating feeds and rations lacking in the correct proportions of animal feed and the elements that are used by the hens, together with some fat, in making eggs.

The fresh air, pure water and the sanitary conditions of houses, tests and ground must be more carefully handled, and, of still greater importance, the quality of our flocks must be looked into with a view to making each flock more uniform in size, age and shape.

Poultry raisers have made much progress during the past five years in the culling of poor layers and broilers. There is still more room for a great improvement along this line. The methods used are proving satisfactory, but more poultry must adopt the practice. At the egg prices which now prevail no poultry raiser can afford to feed a single female that is not capable of producing 150 to 180 eggs per year, providing she is properly cared for and given proper egg-making feed.

Let us repeat that with proper housing, no over-crowding, proper ventilation, an abundance of fresh water, absolute sanitary conditions, the rigid culling out of naturally poor layers, the hens of low vitality and lacking in vigor and of which are now overfat and not laying, together with properly portioned feeds, provided in the right manner at the proper periods of the day, and then you need have no fear of the success of your poultry business.

"Don't rock the boat. Stay with the ship. Cut down your cost of feed. Labor and work for greater efficiency and increased annual production. Remember the season of big profits from eggs must always be fall and winter! Late winter and early spring can never be looked to for unusual egg profits. Eggs are always comparatively cheap at this time of the year.

The first automobile show was held in New York in 1900.

Gasoline sold for six cents a gallon in 1898.

The Only Asphalt Shingle That Is Tapered

Winthrop Tapered Shingles are the only tapered asphalt shingles manufactured. They have three outstanding features that make them a perfect roofing:

- 1—They are the big butt shingles—the only asphalt shingle that gives a shadow line, which so improves the appearance of a roof—something architects have long wanted in Asphalt Shingles.
- 2—They are scientifically constructed. They are tapered. Being thicker at one end than the other, the butt of the shingle over-lapping lies flat on the upper part of the shingle in the row below. No rain or snow can accumulate underneath—wind cannot get under them and blow them off.
- 3—Being tapered extra thickness and weight are distributed where extra thickness and weight are needed—in the part exposed to the weather.

We have obtained a special license to manufacture these shingles under the brand

Brantford Winthrop Tapered Asphalt Slates

Quality of materials and production methods are of the usual high Brantford Roofing standard.

Brantford Winthrop Tapered Asphalt Slates are made from carefully selected Felt saturated and coated with a special blend of asphalt. Real quarried, crushed slate, in its natural colors (red or green or blue black) is embedded into and encrusted on them while the asphalt is hot. They are unaffected by climate. The colors are permanent, and never need staining. They are highly fire-resistant and they are tapered.

information furnished, service rendered by our dealer in your district.

Write for our valuable history of roofing "Shelter." On every page is a photograph of a different kind of a roof, in a different part of the world. It will be mailed free to responsible parties.