

The Daily Herald.

VOL. IX.

FREDERICTON N. B., TUESDAY, JULY 12, 1904

NO. 163

FARMERS' COLUMN.

Why Clover Crops are very Valuable.

CONTROLLING SOIL MOISTURE—IMPROVING THE SOIL.

Department of Agriculture, Ottawa, July 7th.

At the conference of Dominion fruit inspectors recently held at the Central Experimental Farm, Prof. Shutt gave a very clear and scientific explanation of the value of clover crops to the orchardist, of which the following is a synopsis:

"Among the many advantages to be derived from the system of orchard culture which includes the growth of clover crops we may cite as the two most important: the control of the soil moisture, and the improvement of the soil."

Conserving Soil Moisture.

Speaking generally, it is desirable that the soil moisture should be conserved for the orchard trees during the earlier months of the season. Up to, say, July 1st, the tree is making new growth, and is transpiring through its leaves large quantities of water. Further, the swelling fruit is making its demands for water. Hence, in districts where droughts may prevail in spring or the rainfall be scanty, the importance of surface cultivation is marked. By this means an earth mulch is produced, and thus evaporation is checked or prevented. The clover crop system allows of surface cultivation in the spring and early summer months.

Some Experiments.

Experiments have been made to ascertain the effects of clover crops and cultivation on soil moisture on the Central Experimental Farm for several years. Thus, May 6th, 1901 we found that there was 130 tons more water per acre, to a depth of 14 inches, in cultivated soil than in the adjoining plot carrying a vigorous growth of clover. This means that the latter soil contained one half the water in the cultivated soil. But grass sod is more exhaustive than clover sod. In 1902, from May to July, trials every two weeks showed that the soil in sod contained from 50 to 100 per cent less water than adjoining soil in cultivation—the difference being at times over 200 tons per acre. The drought in the early part of 1903 emphasized these facts and showed most markedly the value of cultivation.

In the autumn, on the other hand, it is desirable that the water supply should be diminished, so that vegetative growth should be checked and the wood given an opportunity to ripen before the winter sets in. This is readily brought about by sowing the clover crop in June or early part of July.

Legumes for Improvement of Soils.

The improvement of soils by the growth of clover or some other legum is effected by the addition of humus and nitrogen. Experiments go to show that by this means the soil can be enriched to the extent of 100 lbs. or more of nitrogen per acre—this nitrogen being appropriated from the atmosphere by the plant through the agency of certain bacteria that reside in the clover roots. It seems more than probable that a good crop of clover turned under will enrich the soil to an extent equal to an application of 10 tons of ordinary barnyard manure. Not only is that valuable and necessary plant food, nitrogen, furnished cheap by this means, but humus-forming material is added in large quantities, and this by its partial decay is particularly important in ameliorating the physical condition of the soil. And lastly, the mineral matter stored up in the clover crop is finally set free in forms readily assimilable by the roots of the orchard trees."

Testing Dairy Herds.

The Department of Agriculture, Ottawa, has for some time been recommending the establishment among Canadian dairy farmers of co-operative testing associations, somewhat similar to those which have had such a marked effect in increasing the milking capacity and reducing the cost of production in Danish dairy herds. Under the direction of the Minister of Agriculture, an object lesson along the line is now being given in the district about Cowansville, Que., with the government cool curing room as the centre where the testing is done and the records kept. Arrangements have been made whereby 82 farmers in the vicinity undertake to keep ac-

curate records of the daily milk yield of each cow in their herds. Samples of both morning and night's milk are taken three times a month and tested for butterfat at the cool curing room. The milk record sheets are collected monthly, and these are compared with the books of the cheese factories to which the farmers send milk, so that a fairly efficient check on accuracy is provided. Some 1,450 cows are concerned in this Cowansville cow census, which shows that the large dairymen of that district are alive to the importance of weeding out the unprofitable producers. This testing association is, as yet, merely in the experimental stage but if it works out satisfactorily, it will doubtless lead to a considerable extension of the movement.

THE GERMS OF CATARRH.

Not only attack the passages of the head and throat but finally reach the lungs and cause consumption. Nothing destroys catarrh so quickly as fragrant healing Catarrhzone, which relieves the cough, stops the discharge, takes all soreness from the throat. "I consider Catarrhzone has no equal as a cure for catarrh and lung trouble" writes Jas. E. Wetherell of Brighton. "It cured me after many good doctors failed to even relieve my trouble." Catarrhzone can't fail to cure—it's guaranteed. Two months treatment \$1.00; trial size 25c.

Tree Nursery at Guelph.

Considerable progress has been made with the tree nursery at the Ontario Agricultural College. Hon. John Dryden stated recently that in the spring of 1906 he expected they would be in a position to distribute to the farmers of the Province at least 200,000 trees of various classes.

"We have during the past ten days transplanted about 50,000 two-year-old evergreens—pine, Norway spruce, larch, etc.—and we have sown enough seed to give us 30,000 more," said Mr. Dryden. "We have also gathered enough acorns for at least 100,000 red and white oak trees, a variety of commercial timber which cannot be very well transplanted, but which grows somewhat rapidly from seed. Besides these we have several other varieties, such as maple, beech, birch, ash, and so on."

The trees are planted apart from two to four inches one way, and from twelve to fourteen inches the other way.

Birth-marks which mark and mar the outside of the body are a grief to every mother whose children may bear them. But for every child who bears a birth-mark on the skin there are many who bear an indelible birth-mark on the mind. Nervous mothers have nervous children and many a man and woman owes an irritable and despondent temperament to those days of dread when the mother waited the hour of her maternity. The use of Dr. Pierce's Favorite Prescription strengthens the mother for her trial. With strength comes a buoyancy of spirits and quietness of mind, which is one of the happiest gifts a mother can bestow on her offspring. By giving vigor and elasticity to the delicate womanly organs "Favorite Prescription" practically does away with the pain of maternity and makes the baby's advent as natural and as simple as the blossoming of a flower. There is no opium, cocaine or other narcotic contained in "Favorite Prescription."

"Royal Oak Day."

May 29 is celebrated in many parts of Great Britain as "Royal Oak day," it being the anniversary of the restoration of Charles Stuart to the throne in England as Charles II. The celebration is not what it formerly was, having died out entirely in many of the southern counties of England. The day was formerly commemorated not only as the day of "restoration," but on account of the marvelous escape of Charles, who, after the battle of Worcester, climbed into an oak tree and hid from his pursuers among its branches. On "Royal Oak" those who celebrate wear sprigs of oak in their hats and use the leaves for various decorations.

YOUNG LADIES, READ THIS.

If you are bothered with pimples, rashes or ugly blotches on your face, if your complexion is sallow, it's an evidence that you require Ferrozone to tone up your blood. One Ferrozone tablet taken at meals makes the complexion like peach bloom, cheeks soon become rosy, eyes bright, you'll be the picture of health. Thousands of ladies keep up their youthful appearance with Ferrozone, why not you? Price 50c. at druggists.

A summer girl's idea of economy is to make one hammock do for two.

HANLAN SPEAKS.

The Veteran Oarsman Proud of Scholes' Victory.

SAYS THE LATTER'S TIME IS THE GREATEST ON RECORD.

Toronto News: Bluff old Ned Hanlan, the father of Canadian rowing, was waited upon this morning by a reporter of the News with the object of obtaining for publication any comments which he might make on the victory of Lou Scholes in the race at Henley for the Diamond Sculls. Ned was beaming with pleasure. A prouder man never walked than this veteran of Scholes' good fortune.

You can say I'm the proudest fellow that ever walked. I'm as glad as though I won them myself.

What's your opinion of Scholes? he was asked.

He's certainly a daisy. Yes, he pulls at 20 pounds heavier than I ever did. He's young, of course. But he's got the fibre. No, I never coached him, but Eddie Darnan, my nephew, did, and I coached Eddy.

You had faith in Scholes' winning, then?

Not a shadow of a doubt after Jack Scholes told me the time the boy made over my old mile-and-a-half from the Point to Ward's. That was my old 9 minutes straight at the end of the season when I had all the practice behind me. O'Connor did it in a little under 9. Lou did it in the early season in 9 minutes and 10 seconds. When I heard that I said "Well, you can just bet your original dollar that Scholes can beat all the Kelleys that ever pulled an oar."

There was considerable skepticism among local oarsmen about Scholes and Kelley, was there not?

Heaps! Some of our men had been over an even Kelley. They came back loaded with bouquets for the Australian. But—

Here the veteran oarsman recurred to his favorite theme, Hanlan's Point. Ned will never be happy dead unless he is buried there. For in all the 350 races that he ever rowed in all the 22 years of his oarsmanship on three continents he never seen the spot that so much resembles the oarsman's paradise as that sandbar and the blue bay under it. Here has been the Olympics of Canadian oarsmen, from old Ned in '72 down to Scholes in '04.

They all had to come to Hanlan's Point for their kindergarten lessons, he said.

And as to Scholes' time? asked the reporter.

Greatest on record, he replied. My best record was on Chautauque Lake in '79 when I was up against Courtney for a \$6,000 purse. I went over five miles, mile and turn, in 33.56 3-4, for the referee, and stopped eight times to drink out of the lake. I did it for myself in 32.31. Everybody thought their watches were crazy. Gardner did three miles in 19.16 once. But Scholes beats us all.

You can say Lou Scholes must be an ox-eye daisy to stand four races in four days, he went on exuberantly. Three in three days was quite enough for yours truly. Lord! how the last ounce does count.

What do you think of English rowing? Englishmen have never been in it since I got the world's championship and the English championship there. It's been Australia, Canada and the United States ever since. Canada's still on top.

As to the stroke, though.

Their's is shorter than ours. The Argonauts have the finest stroke in the world.

Then that long slide too—

Yes! Twenty-eight inches; that slide was a corker to the Englishman when they first saw it. "By jove!" they said "that chap's doubled up like a pair of shears." My first slide was 8 inches. My shell was always 31 feet, weight 27 lbs. Scholes has the short shell, 24 feet, lighter and faster. Say, with our slide and our stroke, and Hanlan's Point thrown in, the Argonauts could beat the world if

they only had the men. But there's only 70 men here to pick the eight from against 1,000 in England.

Ned here recounted his history. It has all the fascination of Homer's Odyssey. But every once in a while he broke out in rapturous praise of the new era, of which the year 1 dawned this morning. He talked of Courtney, Plaisted, Ten Eyck, Hackett, Riley, Ross and fifty more. But just now they're all summed up in Scholes, he said.

HEART PALPITATION AT NIGHT

Rattles even the strongest man but to the average woman it is a taste of general purgatory. Take a little Nerviline in sweetened water and away goes the palpitation. You'll be saved lots of worry by keeping Nerviline on hand, which is a treasure for all sorts of pains and aches. Nerviline cures headache, stomach and bowel troubles quickly. Costs 25c. for a large bottle.

Kingsclear.

(Special Correspondence to the Herald.)

July 11.—J. A. Clark, his wife and daughter, and Miss Ruby Starbird of Eureka, Humboldt county, California, are visiting Mr. James Jewett of Lower Kingsclear. Mr. Clark is a native of Glengarry, Ontario, and his wife is a sister of Mrs. Jewett. This party have been touring Ontario, and intend visiting their many relatives and friends in York and Carleton counties. Mr. Clark says that he is highly pleased with New Brunswick. He claims our government buildings are very pretty and that the Boardman collection of birds and stuffed animals are way ahead of anything in California. Mr. Clark, when he first went to Eureka, started quite poor, but now is comfortably well off.

A well known resident of Lower Kingsclear says: I have a very interesting sight to show my friends, it is a setting hen mothering a kitten. The kitten takes very kindly to its foster mother. The hen has its nest under the horse's manger and very often if you visit the old hen you can hear her clucking away to kitty. The kitten crawls under the hen and sticks its head out under her wing. The hen seems to be very fond of its adopted, and very often the kitten comes out from under the hen's wing and lies beside the hen's neck; when the hen goes for food the kitten spreads itself over the eggs. The mother cat occasionally comes along to feed its little one. The cat, kitten and hen seem to be great friends. Maybe when the hen hatches the chickens the cat and kitten will keep the rats, mice and skunks at a distance.

The Chinook.

The Chinook is one of the peculiarities and one of the blessings of Western Assiniboia and Southern Alberta. It affects the broad belt of territory contiguous to the foothills of the Rocky Mountains, blowing down the slopes as genial breezes in the winter time, and in summer tempering the heat as currents of cool and moisture-laden air. The winter climate of these Provinces is very like that of Colorado, a season of bright, cloudless days, infrequent and scanty snowfalls, and frequent and prolonged breaks of warm weather, heralded by the Chinook wind. No doubt the Japan current, which in British Columbia plays the part of the gulf stream in northwestern Europe, contributes to temper these regions.

The Chinook is so called because it blows from the quarter where lies the land once inhabited by the Chinook Indians, on the banks of the lower Columbia River.

A Hair Restorer.

"You promised me," she said coldly, "to return the lock of hair I gave you and"—

"Gee whiz!" he interrupted. "Do you take me for a hair restorer?"

The safest way of not being very miserable is not to expect to be very happy.—Schopenhauer.

NOT THE SLIGHTEST DANGER

In using Dr. Hamilton's Pills of Mandrake and Butternut for constipation or piles. Highly recommended because they cause no gripping pains. For prompt and certain cure use only Dr. Hamilton's Pills. Pills 25c.

The leaves of the life-tree, which is found only in Jamaica, grow after they have been severed from the plant.

When washing greasy dishes or pots and pans, Lever's Dry Soap (a powder) will remove the grease with the greatest ease, 25

THE TREE TOAD.

Welcome little tree toad,
Sing with might and main,
Coming parching tongues to bless,
Prophet of the rain.

Sweetest liquid warbler,
Swiftly trills the strain;
Denizen of tree-top,
Prophet of the rain.

Double-quick the chatter,
Faster the refrain;
Clouds pour down to answer,
Purest prayer for rain.
—H. T. Miller.

A Musical Malaprop.

Among such a mass of players as comprise a great orchestra there are "characters" enough to supply a new Dickens. One of these characters, according to the Saturday Evening Post, is noted more for his love of big words than knowledge of their meaning. During Mr. Seidl's lifetime he played in the orchestra at Brighton Beach. One day the tuba player, who sat back of him, had a very difficult part to play in Liszt's symphonic poem, "Mazeppa." Hearing his heartfelt sigh of relief on its conclusion, Mr. Malaprop turned and asked, "Barnum had one, hadn't he?"

"What?" was the query. "A Mazeppa of course," was the answer. He had confounded the hero of Byron with a zebra.

"Do we play this with or without reputation?" he asked one day of a colleague.

Playing in a new theater on tour, the man who sat next him looked up and announced, "The acoustics are bad here."

"Are they?" he said critically, sniffing the air. "I have such a cold that I can't smell. But I take your word for it."

Plant Forms Seen In Coal.

The substance of coal has been so compressed that the forms of the plants composing it cannot usually be seen, but when a piece of it is made so thin that it will transmit light and is then subjected to a powerful microscope vegetable structure may readily be distinguished. Immediately under every separate seam of coal there is a stratum of what is known as fire clay. This stratum is always present and contains in great abundance the fossil impressions of roots and stems and twigs, showing that it was once the soil from which vegetation grew luxuriantly.

It is common also to find fossil tree stems lying mashed flat between the layers of black slate which form the roofs of coal mines as well as the impressions of the leaves, nuts and seeds which fell from these trees while they were living. In some beds of canned coal whole trees have been found, with roots, branches, leaves and seeds complete and all converted into the same quality of coal as that by which they were surrounded.



Miss Alice Bailey, of Atlanta, Ga., escaped the surgeon's knife, by using Lydia E. Pinkham's Vegetable Compound.

"DEAR MRS. PINKHAM:—I wish to express my gratitude for the restored health and happiness Lydia E. Pinkham's Vegetable Compound has brought into my life.

"I had suffered for three years with terrible pains at the time of menstruation, and did not know what the trouble was until the doctor pronounced it inflammation of the ovaries, and proposed an operation.

"I felt so weak and sick that I felt sure that I could not survive the ordeal, and so I told him that I would not undergo it. The following week I read an advertisement in the paper of your Vegetable Compound in such an emergency, and so I decided to try it. Great was my joy to find that I actually improved after taking two bottles, so I kept taking it for ten weeks, and at the end of that time I was cured. I had gained eighteen pounds and was in excellent health, and am now.

"You surely deserve great success, and you have my very best wishes."—Miss ALICE BAILEY, 50 North Boulevard, Atlanta, Ga.—\$5000 forfeit if original of above letter proving genuineness cannot be produced.

All sick women would be wise if they would take Lydia E. Pinkham's Vegetable Compound and be well.