

# THE REVIEW

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**SHALLOW CULTIVATION AND ROTATION.**

J. H. GRIDALE, AGRICULTURIST, OTTAWA.

For many years, farmers in Eastern Canada were grain growers merely. Necessity forced the inception of such a system of agriculture. Habit and ignorance prolonged the practice of such farming. The wonderful strength, and seemingly inexhaustible fertility of the soil made its long continuance possible. The discovery of the possibilities of the North West and the gradual exhaustion of our fields called a halt. Hence, for some years past change has been in the air.

Live stock farming, the system making the smallest demands on soil fertility, is rapidly supplanting grain growing. Parts of nearly every farm are now much better in condition than they were a few years ago; and, further, such is nature's wonderful recuperative power, since the partial cessation of the tremendous drain of grain exportation the average crop return for Eastern Canada have gone up very considerably. But, as every farmer knows, even live stock farming long continued means a gradual loss of fertility unless considerable food other than that produced on the farm is fed to stock and the manure properly cared for and utilized.

This fact has led to a study of the methods for cheaply restoring lost fertility and profitably cultivating soils so that "improved, rather than impoverished" may be the annual verdict.

It is impossible to discuss the subject exhaustively in such an article as this, but one plan of cultivation found to give good results is where the meadow or pasture is plowed in August, the sod being turned to a depth of 3 or 4 inches only. Immediately after plowing, if in a dry time, the land is rolled, then harrowed with a light harrow. It is then left untouched until grass and weeds start to grow when it is again harrowed, care being exercised to prevent the sod being disturbed. The harrowing or cultivating process is continued at intervals (as the seed germinate) until October, when by means of a (3 plow gang) double mould-board plow the surface soil to a depth of about 4 inches is put into drills about 22 inches apart and 8 to 10 inches high. This is found to be a most satisfactory preparation of the soil for corn, roots or grain. Where grain is sown, the soil is ready for seeding at a considerably earlier date than where late fall plowing is practised.

If allowing with this system of shallow cultivation a proper rotation is adopted, most excellent results are sure to follow. As clover is the only crop which, while giving a profitable harvest still serves to enrich rather than to impoverish the soil, it is evident that clover should take a prominent place in August rotations in this country. With this fact in mind, a few rotations suitable for the improving of our land, may be offered, as follows:

- 3 year rotation: (1) grain, (2) clover hay, (3) pasture.
  - 3 year rotation: (1) corn and roots, (2) grain, (3) clover hay.
  - 4 year rotation: (1) corn and roots or pease, (2) grain, (3) clover hay, (4) hay or pasture.
  - 5 year rotation: (1) grain with 10 lbs. clover seed to plough down for fertilizers, (2) corn and roots, (3) grain, (4) clover hay, (5) hay or pasture.
  - 6 year rotation: Same as 5 year but left one year in pasture.
- The reason for surface cultivation and the use of such short rotations as given

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FISHERMEN'S PRIDE TEA  
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## A. & R. LOGGIE

above is to increase the quantity of and place properly the chief factor making for soil fertility.

Dead vegetable matter exposed to moisture and warmth soon breaks down to a form called humus or black earth, the factors above mentioned. Our prairie and newly cleared soils contains immense quantities of this material. Exposure to heat and the intermixture of earthy matter serve to waste. Thus, repeated grain cropping with deep plowing provide the conditions best calculated to dissipate this matter most rapidly and most effectually.

The functions of this common, yet easily lost, substance are varied and important. Being, as anyone can find out for himself, of the nature of a sponge, it retains the moisture in a dry time, but will allow all superfluous water to rapidly and harmlessly percolate to the lower soil layers.

It holds loose, porous soils together, and so otherwise loose sands become staple and provide a good root hold for plants. It renders dense, impermeable soils open and porous permitting the free circulation of air and water and allowing the weak rootlets to penetrate the erstwhile impenetrable space in search of food. In brief, it is the chief requirement of good physical condition in our soils. It contains much plant food, since it is really vegetable matter, and a large percentage of this food is in available forms. It aids also in the conversion of the non-available forms of the elements of fertility into available forms. Further, it retains near the surface the dissolved plant food which must otherwise have sunk into the sub soil.

The most important sources of humus on the average farm are farmyard manure and crop residues. Upon the proper application or use of these materials depends the future of Canadian agriculture.

Where the supply of humus is limited its location becomes a very important consideration. Now, most of our crops draw the greatest part of their food from the surface soil, for, while some roots of most plants penetrate to a considerable depth, most roots of all plants are near the surface. Plants of nearly all descriptions thrive best where the surface soil is mellow and rich in humus. The great crops produced by newly cleared fields and prairie lands exemplify this, as does also the rank growth of plants in our forests, where the sub-soil is never stirred, or where the annuals and smaller perennials must depend for their nourishment upon the surface soil almost exclusively.

It would, therefore, seem to be clear that available plant food should be near the surface of our fields and that our surface soil should be in particularly good physical condition of tilth.

How to secure these two requirements of rapid, rank and desirable plant growth must, therefore, be the first consideration of every would be successful farmer. Experiment and long practice seem to prove that shallow cultivation and some rotation, more especially the 3rd and 4th year in dry districts, and the 5th year in rainy districts, are most serviceable in increasing the humus in the surface soil, and so "improving the physical condition; which

means "increasing the productivity" of our fields.

- Catarrhozone.**
- AN INSTANT RELIEF AND PERFECT CURE FOR COLDS, COUGHS, CATARRH, DEAFNESS, ASTHMA, BRONCHITIS, LUNG TROUBLE AND CONSUMPTION.
- INHALE CATARRHOZONE five minutes any time and it kills a cough or cold in the head.
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- INHALE CATARRHOZONE ten minutes every hour and it cures Pneumonia, Consumption, Lung Trouble and prevents all contagious diseases. Complete outfit \$1.00; trial size 25c. Druggists, or N. C. Polson & Co., Kingston, Ont. Sold by R. O'Leary.

**THE INVENTOR'S WORK.**

Below will be found a list of patents recently granted by the U. States Government, through the agency of Messrs. Marion & Marion, Patent Attorneys, Montreal, Can. and Washington, D. C.

Information regarding any of these patents will be supplied free of charge by applying to the above named firm.

Nos.

704,618—Fred Allen Colver, Victoria, Ont., Corn planter.

705,120—John McVey, Longue Pointe, Que., Nut lock.

705,035—William J. Cass, Hartland, N. B., Slip link for trace chains.

706,870—Joseph Louis Kieffer, Montreal, Que., Shoe sewing machine.

706,898—Frank A. Breeze, Forest Mills, Ont., Spinning head.

707,106—Edmond Heroux, Yamachiche, Que., Window sash.

707,277—Camille St. Jacques, Cranbrook, B. C., Combination match box.

Write for a copy of "The Inventor's Help."

**THE AGE OF BRAIN WORK**

"In these days, half our diseases come from the neglect of the body in the overwork of the brain. In this railway age the wear and tear of labor and intellect go on without pause or rest. We live longer than our forefathers but we suffer more. They fatigued only the muscles, we exhaust the finer strength of the nerves." Dr. Chase's Nerve Food is the greatest medicine of this age because it is best suited to the needs of the present day. It restores and revitalizes wasted nerve cells and makes the pale, weak and exhausted strong and healthy and vigorous.

**VESSEL LOST, ALL HANDS SAVED.**

COLOMBO, Ceylon, Sept. 12.—A boat containing the first officer and five of the crew of the British steamer Nithsdale has arrived here. The officer reports that the Nithsdale grounded on a reef south of Cardiva, one of the Maldiva Islands, in the Indian ocean, Sept. 8. All hands are safe. The steamer is in a precarious condition owing to the danger of her slipping off the reef. She has a cargo of 4,000 tons of sugar. The Nithsdale was built in 1900 and is owned in Glasgow.

**WEDDING EVENT AT HARCOURT COURT.**

**Two Popular Young People are Joined in Matrimony.**

A very pretty wedding was celebrated at Harcourt, Kent Co., N. B., on Sept. 3rd, at the hour of eleven o'clock a. m. at the home of the bride. The contracting parties were Mr. J. W. Ogden, of Mill Branch, and Miss Annie Laura Pride, of Harcourt. The ceremony was performed on the lawn in front of the bride's home and in a tent erected for the purpose and which was beautifully decorated with flowers and evergreens. The path from the door to the tent on which the young couple advanced to the marriage altar, while the sweet strains of music were being drawn from the organ by Mrs. Keith, was carpeted and lined on either side by a host of guests and well-wishers. The bridegroom was attended by Mr. Wilfred Pride and the bridesmaid was Miss Lizzie Beers. The bride was given away by her father and the nuptial knot was tied by Rev. J. Heaney, B. A.

The bride was handsomely dressed in white organdie artistically decorated with insertion and white satin ribbon with sash trimmed with brier stitch. Her travelling suit was light gray Oxford. The bridesmaid was dressed in white muslin with satin trimmings and white sash.

After the ceremony a sumptuous luncheon was partaken of by about eighty guests. The dining room was elaborately decorated for the occasion.

After the luncheon the party repaired to the lawn where a very pleasant time was spent in conversation and games embellished by music by Mrs. Keith and Mrs. Freeburn.

The young couple left for their new home at Mill Branch at four o'clock followed by the best wishes of their friends.

The presents were numerous and some of them costly. The following is a list: Dr. and Mrs. Keith, Klondike tea set; Mrs. M. MacDonald, soup tureen; Mrs. Beers and Maggie Beers, linen table cloth; Mrs. Cumming, silver top molasses dish; Sadie Buckley, pair fancy vases; Maud MacPherson, vinegar jar; Minnie Morton, syrup pitcher; Mr. and Mrs. J. Beattie, cream pitcher and sugar bowl; Minnie Buckley, one half dozen berry dishes; Lizzie MacLean, fancy China plate; Mrs. A. Ferguson, one half dozen tumblers, Mr. and Mrs. A. Dunn, muslin and glass berry set; Bessie Dunn, China cake plate; Misses Hattie and Irene Curran, veil holder; Thomas MacPherson, fancy water set; W. W. Pride, bed room suite; Mrs. James Beers, one half dozen tumblers; Mr. and Mrs. Robert Saulnier, fancy berry set; Mrs. B. MacLeod, water pitcher; Lizzie Beers, fancy cup and saucer; Jessie Dunn, pair linen towels; Mr. and Mrs. Ingraham, glass tea set; Misses Ingraham, fancy tea set; Molly Spencer, fancy vase; John Wellwood, butter dish; Mr. and Mrs. D. D. Johnson, butter dish; Miss Lizzie Morton, fancy souvenir plate; Mr. and Mrs. J. Morton, one half dozen napkins; James MacLeod, fancy souvenir plate; Norman MacLeod, cake plate; Jonathan Cail, fern dish; Mrs. R. Wellwood, fancy milk pitcher; Peter, Emma and Alice Chrysal fancy tea set; Melburn Spencer, picture frame; Mrs. M. Dickie, butter dish; Fred Wellwood, water set; Maud Van Buskirk, cake plate; Wilfred Pride, China tea set; Almiré Pride, toilet set; Ella Livingston, silver butter knife; W. W. Pride, clothes horse, Mr. and Mrs. Freeburn, coronation set; Mabel Wathen, cream pitcher, Blanche Wathen, card receiver; Lizzie O'Leary, butter and milk set; Mrs. John Powell, fancy cup; Crisnie Shirley, fancy vase; J. N. Beers, coronation plate; Mrs. G. Robertson, pair linen towels; John N. Beers, fancy cup; Mr. and Mrs. Crawford Spencer, pair linen towels; Fred and Willie Beers, one half dozen napkins; Mrs. R. Shirley, linen table cloth; Miss Annie Campbell, pair linen towels; Mrs. W. H. Taylor, chocolate pitcher; Mrs. D. Price and daughter silver coffee pot; Mr. D. Pride, cash; Willie Pride and wife, cash; Harrie Pride and wife, silver nut set; Louisa Stevens vinegar bottle; Mr. and Mrs. G. Livingston, one half doz. silver spoons; Maggie McKay, fancy vase; Dennis Saulnier, breakfast castor; Sintha Ward, China cup and saucer; Eva Wilson, fancy tea pot; Hattie Nicholson, water pitcher; Smith Ward, China plate; Robert Connors, chocolate berry set; John Beers, China cake plate; Mrs. John Beers, one half doz. tumblers; Mr. and Mrs. S. M. Dunn, chocolate set; Maud and Pearl Wry, water set; Mrs. J. Smith glass pitcher; Thomas Smith, salt and pepper crust; Janet King, soup tureen; Mrs. Joshua

Black, glove case; Wood Ingraham, countenance; John W. Lynda, fancy tea set; Grace Bailey, cream pitcher. To the bridegroom, W. W. Pride, Cathedral going parlor clock; Jas. Beers, fancy mustache cup.

**THE ANGLICAN SYNOD.**

MONTREAL, Sept. 12.—The lower house of the General Synod on Monday morning discussed the advisability of changing the name of the Church of England in Canada to something more national in its character. The matter was brought up by Chancellor Worrell, of Toronto, who asked the house to appoint a committee which should act in conjunction with a committee from the house of bishops in selecting another name for the church in Canada. Mr. Worrell gave no hint of what he would like the church to be designated in the future, but among the delegates the most acceptable were the "Anglican Church in Canada" and the "Anglo-Catholic Church of Canada." The name by which the church is now known officially, the Church of England in the Dominion of Canada, was considered prejudicial to its success in Canadian Northwest and British Columbia.

The idea failed to find support and the motion was shelved, the six months' hoist being carried by a small majority.

A motion was adopted favoring securing a new edition of the Book of Common Prayer suitable for the Canadian church.

**JAMAICA LOOKS TO CANADA.**

KINGSTON, JAMAICA, Sept. 11.—At a meeting yesterday afternoon of the sugar planters of Jamaica resolutions were passed condemning Great Britain's neglect of the West Indies, resulting almost in ruin to the sugar industry, settling forth the total inadequacy of the measures proposed for relief and calling for federation with Canada as the only means of retrieving the fallen fortunes of Jamaica.

Although the subject has been much discussed this is the first time a definite proposal for federation with Canada has been made.

**A Great Sufferer Cured.**

Mr. Benjamin Dillon, of Leeds, Ont., was cured of Muscular Rheumatism by Polson's Nerviline, and says: "I feel my duty is to proclaim Polson's Nerviline as an infallible cure for Rheumatism; it cured me after 30 years suffering, and nothing I know of can equal its penetrating power. Nerviline simply has no equal in simply relieving and curing Rheumatism, Neuralgia, Sciatica and Lumbago. A trial will convince anyone. Price 25c. Sold by R. O'Leary."

It is said that King Edward will visit Canada and remain until after the regatta.

A boxer proclamation has been posted at Canton, inciting the slaughter of foreigners.

The British Trades Congress rejected a resolution favoring compulsory arbitration by 961,000 to 303,000 votes.

Trooper W. H. Sneider of the South African Constabulary, and a native of Berwick, N. S., is sick with enteric fever.

General Cronje says that he has lost 20 relatives through the war, but he is prepared to forgive and if possible to forget.

The Montags Revue, a semi-official Austrian organ, declares that Emperor Franz Josef will go to Rome to visit the King of Italy in defiance of the Vatican.

Nearly 700 persons and 20 villages were destroyed in a valley on the northern slope of Mount Kasbek, Russia, by a landslide and a fierce hurricane.

If your dealer has ever tried them himself he will certainly recommend Magnetic Dyes for home use.

**SUCCESSFUL WAR ON TYPHOID FEVER.**

LONDON, Sept. 13.—Professor E. A. Wright's investigation of typhoid inoculation, covering five years in South Africa, India, Egypt and Great Britain, has resulted in the publication of voluminous statistics demonstrating both the preventive and curative results of inoculation, which has reduced the mortality four-fold. Professor Wright believes better results will be attained in the near future, owing to his experience in the dosage and standardization of vaccine.

**CASTORIA**

For Infants and Children.

The little child's equivalent of Castoria is an every day household necessity.

**HE WAS PARALYZED.**

**Unable to Walk or Raise His Hands to His Head.**

A More Unfortunate Case Could Scarcely be Imagined Than a Husband and Father in this Wretched Condition.

OSHAWA, Ont., Sept. 15, (Special).—The experience of Mr. Joseph Brown, an employee of the Oshawa Malleable Iron Works, should be a lesson to every sick person.

Some five years ago, Mr. Brown, who is a hard working, industrious, and sober man, began to feel a stiffness and soreness in the calves of his legs. This gradually increased till he had lost all power in his limbs and arms. He could not have raised his arms to his head to save his life and for over four months he could not stand or walk alone a single step.

All the doctors treated him and gave him up. Then he consulted a Bowmanville doctor who told him he could do nothing for him and advised him to go to the hospital in Toronto where they might be able to help him a little.

To the hospital he went in January, 1898, and remained under treatment for over four weeks. Twelve doctors told him he could not recover and that nothing could be done for him. He was getting worse every day and when removed to his home in Oshawa was like a baby unable to move.

His father-in-law, Mr. John Allin, had heard of Dodd's Kidney Pills and suggested that Mr. Brown try them. He did and he says:—

"I used altogether twelve boxes of Dodd's Kidney Pills and by the first of May I was able to start work again in the shop and I have never been sick or off work a day since."

"I am sure I owe my life, health and strength to that great remedy, Dodd's Kidney Pills."

The arbitration tribunal to hear the claims of Contractor Reid for \$2,000,000 against Newfoundland has commenced its sittings, which are expected to last two months.

The British steamers Glencoe and Devonshire are loading eight thousand tons of anthracite coal at Swansea for New York, these being the first cargoes of that description.

It is semi-officially mooted in Paris that the French shore claims in Newfoundland might be exchanged for a slice of the British possession in the Niger regions of Africa.

Railroad stocks fell rapidly on the London Stock Exchange as the result of an article in the London Times throwing doubt on the solvency of the railroads of the country.

**HEALTH AND HOPE**

"He who has health has hope; and he who has hope has everything." But hope flees at the approach of kidney disease with the dreadful pain which accompany it. With the flesh gradually failing, the back aching, and the despair which often comes to victims of this ailment, only the use of Dr. Chase's Kidney-Liver Pills will restore hope, confidence and health. One pill a dose, 25 cents a box.

**THE BARON DE STAEL.**

St. Petersburg, Sept. 12.—The official gazette, today published a rescript from the Czar according to the desire of Baron de Stael to retire from the Russian ambassadorship in London, on the ground of impaired health, and appointing him a member of the Council of the empire.

The Chilean Government has received an offer to buy the battleship Captain Prat for \$3,000,000 and the armored cruiser Esmeralda for \$2,200,000. These offers are supposed to be made for Japan.

The Japanese Minister of agriculture is visiting Pretoria, and it is understood that in addition to Japanese settlers in South Africa a direct line of steamships may be established between the two countries.

The Labrador fishing vessels reports the herring fishing a failure.

The Czarina's condition is now reported as satisfactory.

Judgment was passed on the Two Mountains election case on Saturday, and the election annulled for corrupt practices.

Eighty thousand troops are camping in the open air at Frankfurt-on-Oder, and 12,000 more are quartered in farm-houses. A magnificent war spectacle will be presented. Emperor William will lead the four days sham fight at Potsdam.

Between 60,000 and 80,000 dogs will be destroyed in Rhodesia, on account of their being afflicted with the rabies.