THE SPLIT-LOG DRAG USED ON EARTH ROADS

Methods of Construction and Use Fully Set Forth by Mr. A. W. Campbell, Provincial Commissioner of Public Works.

The split-log drag, as an implement for the repair and maintenance of earth roads is exceedingly valuable. For earth roads, it is a necessary supplement of the grading machine.

What is the split-log drag? To make one is almost more simple than to describe it, for the implement is simplicity itself. A log from five to eight feet long is split in half. The halves are placed parallel to one another, the edges down and flat face to the front. They are firmly braced together in this position with three cross-bars wedged into holes bored through the log. A chain-hitch is attached in such a manner as to incline the drag at outer edge of the road, and the rear corner at the centre. By dragging this implement up one side of the road and down the other, making a number of circuits, using two or three horses, the edges of the log plane off the tops of ridges and rough places, drawing the material sideways and forward to fill hollows and ruts, crowning it at the centre of the road. This drag, used eight or ten times during the year on an earth road, while the earth is in moist condition after a rain, will keep an earth road, in the best condition that an earth road can be made to reach.

The split-log drag by no means does away with the grading machine. On the contrary it, if anything, makes the grading machine more valuable. The work of the grading machine is to construct, but the sphere of the split-log drag is to repair and maintain. Counties where earth roads prevail, have commonly used the grading machine on the main roads year after year to keep them in repair. As a result, the side lines and little travelled roads have been neglected, and have not been improved as they should be by using the grading machine. By establishing a proper scheme in any "earth road" township for the use of split-log drags, these can be made to take the place of the grading machine for repair, while the grading machine can be sent on its proper mission of construction, to outlying roads which have heretofore been neglected, and upon which it is so much needed.

As previously pointed out, the split-log drag is not an implement of construction. That a road can be graded from a flat and rough condition to a shapely and well-formed road, is no doubt the case, but this as a rule can be done only by the expenditure of an excessive amount of energy. The grading machine is the implement which can be most economically used to perform the first earth work in crowning, grading and to some extent draining the roads. The split-log drag will then find its place in keeping this road in the best possible condition. That is, it will smooth out the surface of the road early in the spring, and assist in drying the road some days earlier than would otherwise be the case. The road when dry will be smoother and more agreeable for travel. The road will be less dusty throughout the summer, from the fact that the ridges and ruts do not have to be pulverized under traffic before they are smoothed out. The continued use of the drag will keep the road free from ruts; will maintain the road in the shape in which it was placed by the grading machine; will asssist surface drainage, and make a firmer and less readily cut surface. It will keep an earth road at itss best.

Stone and Gravel Roads Needed.

An earth road, whether dragged or not, when it becomes wet, is a mud road, although lass muddy if it is dragged. In praising the split-log drag, it must not be supposed that the writer is advocating the earth road. Earth roads and mud roads are not good enough for the Ontario farmer. As a rule, earth road townships are among the most fertile and wealthy of the Province, and there is no good reason why the citizens of these townships and counties should remain content with earth roads. It is not to be argued that all of these roads should at once be gravelled or macadamized, but a commencement should be made on the leading roads, or such roads as would become leading roads if they were so constructed as to attract travel. What is meant by this will be understood by the majority of those in the competition during the past summer, for the great rule was that the roads kept in repair by the split-log drag, were much more heavily travelled than they had ever been before, attracting travel which formerly followed parallel roads.

Systematize Use of Drag.

The split-log drag can be made to achieve its greatest usefulness only where a thorough system is established for dragging the earth roads of a township. While these implements are so cheaply made and so easily operated, it will not do to expect that all farmers will, of their own good-will, at once go out on the roads and keep them in repair. Township Councils will have to take the matter up. If their use is still left to ordinary statute labor methods, permitting a farmer here and there, who desires it, to work out his statute labor by this means, the result will be inferior. A business-like system must be introduced. One to be recommended is;

1st. That township Councils take tenders and let the job of dragging and keeping in good condition, sections of earth road throughout the township; these sections not to exceed four miles in length, being preferably two miles in length and not less than one mile.

2nd. That each person taking a contract be paid in cash the sum of his tender, which will be a small amount. (In discussing this with those who have used the drag throughout the past year, it is found that an average of five dollars per mile would be hn inducement to take the work, in consideration more especially of the benefit of the roads.' This should pay for dragging the roads eight or ten times during the year, or as often as required.)

3rd. The work of those using the split-log drag should be inspected from time to time by the township road commissioner. When any person operating the drag is found to do inferior work or to neglect the roads, the work can be taken from him for the ensuing year.

How to Operate the Drag.

In the practical use of the drag, a multitude of points were brought out by the competition. To discuss all is unnecessary. Leaving something to be learned by practical experience, a brief summary of the more important is as follows;

Use a light drag — preferably of cedar, pine or basswood, such as can be readily managed by one team of horses, and use it often. Fasten strips of steel along the lower face edges of the drag. A straightened wagon wheel, or sleigh runner is ordinarily used.

Use the drag as early in the spring as possible, and as frequently thereafter as is needed to keep the road smooth and free from wheel tracks.

Use the drag when the road is very wet and slushy, either when raining or immediately after; or use the drag when the road has become somewhat dry, and the soil loose and friable. There is an intermediate stage in which the earth is sticky and rolls up in lumps, instead of spreading out smoothly.

If a clay road is dragged in the wet stage, a tough, rubber-like surface is produced; but the road is very apt to be cut up by traffic before it becomes dry.

Use the drag so frequently that the road is never out of repair, and draw only a little earth to the centre at each operation. If the road is dragged only when very rough and flat, so that a great ridge of earth is piled at the centre, the best results are not reached.

Give the road a round contour — not two flat planes meeting at a sharp angle in the centre of the road. In doing this a short, light drag is most serviceable.

Attach the end of the chain at the outer side of the drag to the cross-bar; and the end at the centre, to a ring in front, or pass through a hole in the front of the drag. If both ends of the chain are fastened to the cross-bars, there is a downward bearing on the front of the drag liable to upset it in a manner dangerous to the operator.

The cross-bars should be nearer the top than the bottom, to allow the earth to pass underneath them.

In certain sticky conditions of the road the drag can be reversed, drawing the round face forward.

Place a couple of planks over the cross-bars for the operator to stand on. The operator can then regulate the work of the drag by moving from one end to the other.

The operator should have a shovel with him to trim the drains and edges of the road; or a crow-bar to pry out bowlders, logs and stones. He can use them when the horses are resting.

By means of the drag, together with the plow and harrow, much can be done to grade a new road, particularly if the land is moderately level and the soil not a heavy clay. But this work is apt to be extravagant of labor, and should be done with a grading machine.

The nature of the soil, varying from a stiff clay to a light sand, influences the use of the drag. Study the results produced by the drag under all conditions of soil, season and material.

Skill born of careful observation and practice is needed. Do not expect the best results at first.

Permanent Results

"I had been suffering for over two months with an obstinate cough, as had also my little girl. We tried several remedies common to any drug store without obtaining any apparent relief, in fact we were growing worse. I got a bottle of **Coltsfoote Expectorant** from my druggist and inside of two days the cough was stopped, and the results so permanent and rapid that we decided to keep it in our home continually.

ROBERT PALEN.

C. A. R. Station, Ottawa.

Coltsfoote Expectorant is recognized the world over as the best prescription ever used by the medical profession for Coughs, Colds, Croup, Bronchitis and Tightness of the Chest. Children like it. To introduce it into every home we will send a free sample to every person sending their name and address to Dr. T. A. Slocum, Limited, Toronto. Sold by all up-to-date druggists at 25c.

Send for Free Sample To-day.

Mr. Robt. Bryans Was Banquetted Last Thursday By His Many Friends

HANDED ADDRESSES AND GIFT BY CITIZENS AND CO. COUNCILLORS

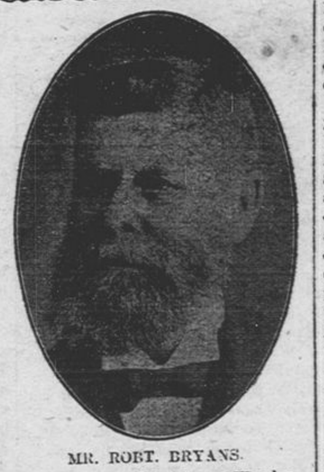
The Benson House the Scene of a Pleasant Gathering Last Evening---Mr. S. J. Fox, M.P.P., Dr. Jessup, M.P.P., and Leading Citizens in Attendance---The Toast List and Speeches.

Evenign Post of Feb. 28

The banquet at the Benson house last night, given by the citizens of Lindsay in honor of Mr. Robert Bryans, who is about to leave for "Sunny Alberta," was a successful and well conducted affair. About 60 were present—a most gratifying attendance in view of several other events falling on the same evening. Among those present were Mr. S. J. Fox, M. P. P., Dr. Jessup, M. P. P., Lincoln, Judge Harding, Mayor Begg Dr. Wood, Dr. Vrooman, Col. Robt. Sylvester, Mr. J. R. McNeillie, County Clerk and Treasurer, Mr. H. B. Black, manager Bank of Montreal, Rev. C. H. March, Mr. Thos. Stewart, Mr. J. D. Flavelle, Messrs. J. H. Sootheran, I. E. Weldon, W. B. Sparling, J. W. Wakely, M. O'Halloran, James Boxall, F. D. Moore, G. H. Hopkins, C. D. Barr, Wm. Flavelle, Johnson Ellis, Wm. Pym, I. Deyell, Reeve. Geo Jordan, Dep.-reeve Eyres, Ald. Geo. Rea, John O'Reilly, D. Cinnamon, Jos. Brown, J. A. Williamson, A. Robertson, L. A. Murphy, R. Kylie, Wm. Channon, Major E. H. Hopkins, F. H. Reed, B. Sc., Inspector W. H. Stevens, J. B. Graham, Edward Bryans, T. D. Stapleu, W. Conquergood, Thos. Grimson, W. H. Wilson (Ops), Andrew Marshall, Wm. Flavelle.

THE BILL-OF-FARE

The banquet itself, may be classed as another gastronomical triumph for the Benson house. The capable chef delights in exhibiting the full resources of his art on such occasions, and the service was in keeping with the cuisine — in fact everything was perfect, the guests lingered long over the dainties set before them in succession. Meanwhile the Lindsay orchestra discoursed even sweeter strains than usual, everyone was in good humor, and men and things seemed to be working together in great harmony with the object of making the occasion a memorable one.



MR. ROBT. BRYANS.
(By Courtesy Watchman-Warder Printing Co., Limited.)

MENU.

Blue Points
Potage Julienne
Queen Olives Celery
Broiled White Fish Hotelliere
Pommes Parisienne
Sweet Pate Douglas
String Beans
"Creme De Menthe Punch"
Spring Turkey, Cranberry Jelly
French Peas Mashed Potatoes
Waldorf Salad
Deep Apple Pie, Devonshire Cream
Chocolate Ice Cream
Macaroons, Fruit Cake, Lady Fingers
Apples, Bananas Oranges
Creamed Cheese Salt Wafers
Cafe Noir

THE SPEECHES

Mr. S. J. Fox presided as chairman, having at his right hand the guest of the evening, Mr. Bryans, and Rev. Marsh, and at his left His Honor Judge Harding and Dr. Jessup, of Lincoln. The vice-chairs were occupied by Mayor Jas. Begg and President Johnson Ellis, of the South Victoria Agricultural Society.

The first toast, "The King," having been suitably honored, the chairman proposed "Our Guest," taking advantage of the opportunity to make a brief allusion to Mr. Bryans' coming departure. If he were young in years it would be different, but when the person leaving us is one of ripe experience, and one who has taken a prominent part in the affairs of the town and county, the loss is serious indeed and deeply to be regretted by all. (Applause).

Mr. J. H. Sootheran announced that letters expressing regret at inability to be present had been received from Col. Sam Hughes Mr. Parr, of Cartwright, Dr. Mason Warden of Victoria, Mr. J. H. Carnegie, M. P. P., and others.

CITIZENS' TESTIMONIAL

The following address was read by Rev. C. H. Marsh on behalf of the Citizens' committee, the presentation of the gift—a beautiful gold-headed cane—being made by Mr. S. J. Fox, M. P. P.

To Robert Bryans, esq., Lindsay, Ont.;

Your numerous friends have heard with much regret of your contemplated early removal from Lindsay, and take this opportunity of giving some slight expression of their regard for you as friend and neighbor and fellow-citizen.

During a residence in this town and neighborhood of over thirty years you have by your many sterling qualities, your public spirit and business enterprise, won and held a high place in the estimation of your fellow-citizens, and you have been called upon to fill many positions of public trust and confidence, the duties of which you have discharged with commendable zeal and fidelity.

As County Councillor for several years, as Warden of the County of Victoria, as member of the Board of Directors and as President of the South Victoria Agricultural Society, as member of the Board of Governors of the Ross Memorial Hospital, and as Church Warden for many years of St. Paul's church, you have been called upon to discharge many important and responsible public duties, and in all these varied activities you have by your quiet energy and unfailing courtesy accomplished gratifying results, and have always enjoyed the full confidence and esteem of your fellow-citizens.

While we greatly regret your departure, we cannot avoid commending the enterprise that leads you to join the great army that is so rapidly settling and developing our splendid Western Provinces, and we confidently anticipate that in your new home you will be called upon to take a large share in the discharge of those duties that generally fall to the lot of a public-spirited citizen.

In wishing you and Mrs. Bryans and your interesting family all happiness and prosperity in your new Western home, permit us to offer you this small memento of our friendship with the hope that you may not for many years feel disposed to rely upon it in your daily walk.

Signed on behalf of the citizens of Lindsay, this 27th day of February, A. D. 1908.

S. J. FOX, M. P. P., Chairman
J. H. SOOTHERAN, Sec.

Rev. Mr. Marsh, when handing over the address, gave expression to his pronounced feeling of regret at Mr. Bryans' pending departure. Personally he felt he was about to lose a very dear friend; a quarter of a century ago he (Mr. Marsh) first broke bread at the hospitable board of Mr. Bryans, and from that day to this, he had found that gentleman a tower of strength in church work and in the upholding of all good measures. His word was his bond always. The Northwest stood in need of men of his sterling integrity, push and enterprise, men who may make mistakes occasionally, but who realize their immortality and who will, as far as possibel, be guided by and live up to the precepts of the Golden Rule. Mr. Bryans was a zealous christian gentleman, and his earnest wish and prayer was that he, with Mrs. Bryans and family, might be greatly blessed and very happy in their new home in the West. (Applause).

COUNTY COUNCIL ADDRESS.

Reeve Jordan read the following address from the County Council, at the same time adding a few suitable comments relative to the loss to be suffered by the community.

Robert Bryans, esq., Lindsay;

Dear Sir and Friend, — We the members of the County Council of the County of Victoria, feel that, at this the last session of Council, previous to your departure for the West, it becomes our duty, as it is our privilege, to place on record an expression of our sincere regret at your departure from our midst.

As County Councillor, as in various other public positions, you have become widely known and highly respected, and we take pleasure in testifying to the benefits our county and district have derived from your intelligence, diligence and public spirit.

While we therefore regret our own loss, we cannot but feel deep satisfaction that our great and growing West is to receive that which we lose, for we are assured that the activity you have displayed in all public matters here will not cease, but will have even wider scope and will receive, perhaps, even more general appreciation in the new province to which you are going.

We therefore congratulate our sister province, Alberta, on a splendid accession to her citizenship, and express the wish that your removal may conduce to the best welfare of yourself and family. (Signed on behalf of the Council.)

J. R. McNEILLIE, Clerk,
R. M. MASON, Warden.

Lindsay, Feb. 1st, 1908.

REPLY TO ADDRESSES.

Mr. Bryans, in his reply, said he felt deeply grateful because of the kind references in the first address to himself, wife and family — he knew they proceeded from the hearts of faithful friends. He appreciated also the address from his former colleagues in the County Council; he had had the honor of being connected for over twenty years with the body, of which Mr. J. R. McNeillie was the guide and confidential adviser. He (Mr. Bryans) had filled a number of positions, and had taken pleasure in serving the community, in which he lived in every way. He had made up his mind last year to remove to "Sunny Alberta"—in the near future the great West land would sway Canada. At the outset he would take up residence on his farm, but eventually would move into Edmonton. He would leave Lindsay with keen regret, and hoped to be able to return occasionally at least.

Vice-Chairman Ellis, in proposing the toast, "Our Agricultural Interests," referred to Mr. Bryans' unselfish work for the upbuilding of South Victoria Agricultural Society, with which he had been connected for over 20 years. He had never taken one cent for his work, and had the satisfaction of knowing that today the Lindsay Central is among the best County Fairs in Canada. (Applause)

The names of Mr. Wm. Channon, of Oakwood, Vice-President of South Victoria Agricultural Society, and of Mr. F. H. Reed, B.S.A., teacher of agriculture in Lindsay Collegiate Institute, were coupled with the toast, and both made interesting addresses.

"Our Learned Professions" brought responses from His Honor Judge Harding, Dr. Jessup, M.P.P., Mr. F. D. Moore, Mr. G. H. Hopkins and Mr. Thos. Stewart. The speech by Dr. Jessup was particularly bright and interesting.

"Our Business Enterprises," elicited replies from Messrs. J. D. Flavelle and Mr. Jas. Boxall. Both gentlemen referread in earnest terms to the loss the town and county was about to sustain by the removal of Mr. Bryans to the West, and both in turn voiced the hope that in the course of a few years he would have made his "pile" and return to Lindsay to end his days.

Mayor Begg proposed the toast, "Our Municipal Institutions," prefacing it with a few happy remarks appropriate to the occasion. Coupled with the toast were the names of Dr. Wood and Dr. Vrocman, whose remarks were listened to with pleasure by all.

"Our Town and County," received full justice at the hands of Mr. J. R. McNeillie, County Treasurer, who said in the course of his speech, that he well remembered when the vote was taken that led to the separation of Victoria from Peterborough County. That separation had been vastly beneficial to Lindsay as well as the County — from that day they had grown and prospered together.

The toast of "The Ladies" brought that virile and versatile champion of feminine charms, fancies or rights—Mr. Ernie Weldon—to his feet. He was in fine trim, and his eloquence on his chosen subject entitles him to a niche in the memory of the ladies of Lindsay all right.

"Auld Lang Syne" brought the proceedings to a close at about (1 o'clock a.m.

Black Watch

Chewing Tobacco

The big black plug.

2269

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SPECIAL NOTICE.
Owing to Dr. Kergan being deceased, Dr. J. D. Kennedy, Medical Director, has associated with him Dr. Kennedy Jr. who has been with the firm for several years, so hereafter business will conducted under the name of
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BLOOD POISONS Blood Poisons are the most prevalent and most serious diseases. They sap the very life blood of the victim, and unless entirely eradicated from the system may affect the future generation. Beware of Mercury. It only suppresses the symptoms—OUR NEW METHOD cures them.

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Question List for Home Treatment Sent on Request.

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Manitoba's Three-Fifths

It is Abolished, but the Half Means of All the Voters on Roll.

In the Ontario legislature a rather interesting point was brought out, observes the Ottawa Journal. Manitoba has just repealed a so-called three-fifths caluse, a fact which seemed to suggest that Ontario might well do likewise. It turns out that what Manitoba had was an not requiring three-fifths of the electors on the poll — to carry local option — a really unfair demand—and that what Manitoba has substituted is that local option shall carry upon a vote of a simple majority of electors on the roll. But even this improvement leaves the temperance clause worse off in Manitoba than it is under the three-fifths of the electors who vote A majority of electors on the roll is usually a bigger proportion than three-fifths of the electors who vote.

To illustrate: In the last election in Ottawa—or no, not in the last election, for that was not hotly contested; let us substitute the preceding one, the provincial general election in 1905, when both political parties strained every nerve to get out the biggest possible vote—in the election, then, of Jan. 25, 1905, the total vote polled in Ottawa, was 11,726. The number of names on the roll was 15,844. Apply these figures to the local option case. To carry the act in Ottawa under the present Ontario three-fifths clause, supposing that 11,726 voters could be got to the polls, would require 7,035 votes in favor. But to carry the act in Ottawa under the new Manitoba regulation of a simple majority of the electors on the roll would need half of the total 15,844 names on the Ottawa roll, or an affirmative vote of 7,772. The temperance cause would thus, under Manitoba's alleged improvement, need over 700 more votes to win in Ottawa than it needs now under the Ontario three-fifths clause. If Premier Whitney were to suggest adopting the Manitoba "improvement" temperance advocates would need fight the idea tooth and nail.

Constipation

Baked sweet apples, with some people, bring prompt relief for Constipation. With others coarse all-wheat bread will have the same effect. Nature undoubtedly has a vegetable remedy to relieve every ailment known to man, if physicians can but find Nature's way to health. And this is strikingly true with regard to Constipation.

The bark of a certain tree in California—the cara Sagrada—offers a most excellent aid to the end. But, combined with Egyptian Senna, Spicery Elm Bark, Solid Extract of Prunes, etc., the same Cascara bark is given its greatest possible power to correct constipation. A tasteless Candy Tablet, called Lax-ets, is now made at the Dr. Shoop Laboratories, from this ingredient and most effective prescription. Its effect on Constipation, Biliousness, Sour Stomach, Bad Breath, Sallow Complexion, etc., is indeed prompt and satisfying.

No griping, no unpleasant after effects are experienced, and Lax-ets are put up in beautiful lithographed metal boxes at 5 cents and 25 cents per box.

For something new, nice, economical and effective, try a box of

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