MINNESOTA ROAD BUILDING.

A Narrow Roadbed, Like a Single Track Railroad Grade.

Mayor Harry M. Rubey arrived at Macon, Mo., recently from Minneapolis in his new forty horsepower motor car, completing a journey of 700 miles from the hub of a minute for re- [illegible] Minnesota and Northern Iowa was made at the aver- [illegible] miles an hour, [illegible] frequently ran thirty miles an hour.

"They have a system of road building up in that country," said Mr. Rubey, "which might be followed with advantage in Missouri. Instead of distributing their efforts over a roadway of from forty to sixty feet, they make a roadbed of from ten to twelve feet and concentrate all their work on that, leaving the balance of the right of way to take care of itself. Across the bottoms and lowlands the road is banked up like a railroad fill or embankment. You can see far enough ahead to stop if you happen to encounter a vehicle coming against you on a fill. This narrow strip of roadway is kept hard and smooth, and we glided over it at a rate that would have jolted the machine to pieces on most of the roads down here. It is built of earth, compactly, so that rain has little effect on it."

Good Roads For Automobiles.

Although since the use of automobiles became widespread in a considerable section of the country a good deal of money has been expended on the improvement of roads, very much more must be devoted to the purpose if long distance traveling is to be promoted, says Harper's Weekly. Under the auspices of the Good Roads league a movement has been started for the construction of a highway suitable for automobiles from the Schuylkill river to a provisional terminus at Pittsburg. The distance is nearly 300 miles, and the computed cost of such a structure would be between $3,000,000 and $3,500,000. A more interesting and promising plan was mooted the other day by the Philadelphia Public Ledger. The scheme proposed by that newspaper contemplates the restoration, improvement and extension of the old National road, otherwise known as the Cumberland road, which was built by the federal government during the thirty-three years preceding 1839. Made, as it was, under the supervision of engineers of the regular army, this highway has been compared for solidity with the military thoroughfares created by the Romans, the remains of which are still turned to account in many parts of Europe.

Macadam Road Maintenance.

Neglect to properly maintain a macadam road after it has been built is one of the worst enemies of road reform of which we have knowledge, says Good Roads Magazine. Many cases are on record of where a stone road has gone to pieces within a very short time after its completion owing to negligence in giving the matter of repair due attention. Experience shows that a road once properly built can be maintained indefinitely by making prompt repair as soon as a weak spot is discovered. The practice in European countries could well be followed in this country. A road requires care and attention for its upkeep the same as a railroad track. The original cost of a macadam road is too great to allow it to go to pieces within a year or so and then practically rebuild it. Most failures are due to the fact that no adequate provision for repairs has been made by the county or state. Since roads cannot take care of themselves, they must be looked after constantly if rebuilding is to be avoided.

Prepare For Fall and Winter.

As the season approaches for heavy rainfalls and the consequent muddy roads it is well to call the attention of road supervisors to the necessity for seeing to it that ditches and culverts are open to allow the free passage of water, says Good Roads Magazine. Water is the deadly enemy to a road and should therefore be kept as far away as possible. In the construction of a new road proper crowning and draining are the two essential things to be kept constantly in mind. Keeping the surface smooth by the use of the road scraper or drag is all important if good, passable roads are desired. In the northern sections of the country, where deep snows are found in the winter months, preparations should be made early for rolling down the snow or otherwise keeping the roads open for traffic.

Rural Delivery Service.

The report on the operations of the rural delivery service up to Nov. 1, recently made public by the fourth assistant postmaster general, shows that the total number of petitions for the establishment of the service received up to date was 54,433, upon 15,202 of which adverse reports were made, says the Washington Star. On Nov. 1 there were 36,785 routes in operation, and 2,345 petitions for service were pending. The number of regular rural carriers now employed is 27,857. Illinois is still the leading state in the number of routes, having 2,771. Ohio is second, with 2,475, and Iowa third, with 2,296. The balance of appropriation available for new service during the present fiscal year is $1,427,892.32.

For Good Roads In Porto Rico.

The legislature of Porto Rico has authorized a loan of $1,000,000, the proceeds of which are to be devoted to improving the highways. This action on the part of the legislature, it is said, has been brought about because of the difficulties encountered in getting the products of the island to market. It is believed that by the expenditure of $1,000,000 the highways can be greatly improved.

VALUABLE NOVELTIES.

Alfalfa From Siberia—Single Germ Sugar Beets.

In the bureau of plant industry at Washington the leading features of the work reported of the past year have been the co-operative demonstration work with farmers, fruit growers and others under the careful supervision of department experts and the introduction of new crops of economic value. One of the most important achievements in this latter line is the discovery of the existence of a Siberian alfalfa, a plant native on the dry steppes of Siberia, where the mercury freezes without snow, thus proving the ability of the plant to withstand without protection a temperature of 40 degrees below zero. This discovery may mark an epoch in the agriculture of the northwest prairie regions of the United States. Among other valuable plants introduced are a vigorous alfalfa from Arabia and the Tangier pea, which has yielded as high as nine tons of green feed per acre. With a view to increasing the matting industry the department's explorers have secured living plants of the best foreign varieties of rushes.

In the improvement of sugar beets the annual report further says:

"Good results have attended work in securing high grade strains of sugar beet seed, and especially satisfactory results have been secured in the development of the sugar beet seed containing a single germ, which will eliminate a considerable portion of the work of thinning."

MOSS IN PASTURES.

Sodium Nitrate Is Found to Be an Effective Remedy.

The moss knolls so common in our pastures are composed mainly of Polytrichum commune and less often of

A PEST IN OLD PASTURES.

a closely related species, Polytrichum juniperium. A pasture belonging to the Vermont experiment station and considerably infested with moss was used in these experiments.

Three plots, containing 100 square feet each, were measured off and lime, maple wood ashes and sodium nitrate applied at the rate of 5,000, 1,000 and 1,000 pounds respectively. Made application also on three plots containing ten square feet at the same rate, but worked into the soil. These materials were applied about Nov. 15, 1905, and about June 1 of the following year some action had already taken place.

Plot No. 1, containing lime as a top dressing, was little affected.

Plot No. 2, containing ashes as a top dressing, was little affected, except in those spots where the ashes happened to be particularly thick, in which places the moss was unhealthy and in some cases dead.

Plot No. 3, containing sodium nitrate as a top dressing, was greatly changed. More than half the moss was killed, and the greatly increased growth of [illegible] bid fair to drive out the rest.

The three tilled portions were also considerably less acid, although not alkaline in reaction. The effect of lime when used as a top dressing is well known to be slow, and consequently later results may prove more favorable. This action shows how much the mosses are dependent on a certain kind of habitat in order to thrive and suggests the practicability of using the nitrate on lawns, etc., that are infected with mosses. In any case the better and more luxuriant grass produced would usually more than pay for the cost of trouble of application, concludes a writer in American Cultivator. Nitrate of soda is a salt extremely easy to apply and with scarcely any smell. Its solubility and quick action make it especially effective during a rainy season.

Growing Fruit In Nebraska.

Not only is there no question about the water supply in western Nebraska as long as the rivers run, but soil cultivation is easier than under ditch irrigation. Not only is the elevation less than some of Colorado's most famous fruit districts, but the climate is at least equal to and very little different from that of Colorado. Cool nights, ample moisture and bright sunshine all combine to give the high coloring and fine quality which have made Colorado fruit famous. Western Nebraska has all of these.—E. F. S. in Orange Judd Farmer.

Manure In Cold Climates.

Many experiments, notably those made by the Michigan and Wisconsin stations in this country, have shown that barnyard manure is one of the most effective means of increasing the productiveness of swamp or muck soils. This is thought to be due largely to the increase of available nitrogen brought about by the application of the manure. In cold climates, where the season is short and the conditions for rapid fermentation in the soil unfavorable, the use of fermented manure is preferable.—W. H. Beal.

Timber Land Deals.

The Examiner is prepared to handle timber lands in large or small bodies; the trouble has always been timber land owners have been scattered over the country and those who lived close enough together to list their lands in a sufficiently large body to make the sale one of importance to timber land purchasers, thier lands have invariably been in such localities as would prohibit consolidation. We have arranged with a firm to take these isolated tracts, and by so doing, we are able to secure enough land in one body to make it an object to purchasers to investigate, and thus the lands will bring the highest market price. Parties owning but 160 or 80 acres will not be told by their intending purchasers that their tracts are too small to bother with. The company we are dealing with is absolutely responistble and has plenty of capital. Write The Lake County Examiner for full particulars.

If you have a piece of timber land to sell write The Lake County Examiner. We can place your land where it will bring the highest price.

Reward.

$500 Reward will be paid by the Lake County Woolgrowers Association to anyone giving information leading to the arrest and conviction of any person or persons changing the marks or brands, or killing or moving any sheep belonging to members of this association.

S. B. Chandler, President.
J. N. Watson, Secretary.

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Reward for Horses

I will give $250.00 Reward for the delivery, in Lakeview or at my ranch at wagontire Mountain, of any and all unbroken range horses, 4 year old and upwards, unblemished, ranging in Lake county, Oregon, branded with an old horseshoe on both jaws, without any other brand on the animal; horseshoe open part downward the same as cut in the following advertisement. W. W. BROWN.

$1,250 Reward.

The Harney County Live Stock Association, of which I am a member, pays $750 reward for evidence leading to the conviction of parties stealing stock belonging to its members. In addition I offer $500 reward. Horse brand horseshoe bar on either or both jaws. Recorded in 3 counties Range, Harney, Lake and Crook Counties. Horses vented when sold. Horses sold to pass through this section will be reported in this paper. If not so reported, please write or telephone The Times Herald, Main 824, Burns, Oregon. W. W. Brown, Burns, Ore.

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SEWING MACHINE.
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Save Money by buying this reliable, honest, high grade sewing machine.

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TIMBER LAND NOTICE.

Lakeview, Oregon, Jan. 4 1907.

Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon, Nevada, and Washington Territory," as extended to all the Public land states by act of August 4, 1892, John G. Pollard, of Napavine, county of Lewis, State of Washington, has this day filed in this office his sworn statement No. 3354, for the purchase of the E½ NW¼ & N½ NE¼ of Section 35, in Township No. 35, S., Range No. 17, E., W. M., and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim to said land before the Clerk of Klamath County Ore. at his office at Klamath Falls Oregon, on Monday, the 1st day of April, 1907. He names as witnesses:

William T. Garrett, Quinton Anderson, Sisco W. Wood, Edwin W. Pollard, all of Bly Oregon.

Any and all persons claiming adversely the above described lands are requested to file their claims in this office on or before said 1st, day of April, 1907.

2—11 J. N. Watson, Register.

Timber Land Notice.

United State Land Office, Lakeview, Oregon. March 2nd, 1907.

Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon, Nevada, and Washington Terrritoy," as extended to all the Public Land States by act of August 4, 1892, Melva Withers, of Paisley, county of Lake, State of Oregon, has this day filed in this office his sworn statement No. 3587, for the purchase of the W½ SE¼ of Section No. 5, in Township No. 34, Range No. 18 E., W. M., and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim to said land before Register and Receiver at Lakeview Oregon Monday, the 20th day of May, 1907. He names as witnesses:

C. L. Withers, J. K. Banister, C. W. Withers, T. C. Welch, all of Paisley Oregon.

Any and all persons claiming adversely the above described lands are requested to file their claims in this office on or before said 20th day of May, 1907.

10-10 J. N. Watson, Register.

TIMBER LAND NOTICE.

United States Land Office, Lakeview Oregon. Feb. 13, 1907 Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An Act for the sale of timber lands in the States of California, Oregon, Nevada, and Washington Territory," as extended to all the Public Land States by act of August 4, 1892, Charles W. Withers, of Paisley, county of Lake State of Oregon, has this day filed in this office his sworn statement No. 3564, for the purchase of the SE¼ NW¼ E½ SW¼ & SW¼ SW¼ of Section 13 in Township No. 34 S., Range No. 17 E., W. M., and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim to said land before Register and Receiver at Lakview Oregon, on Monday, the 22 day of April, 1907. He names as witnesses:

C. L. Withers, John Drumm, Wm. K. McCormack, George Cooley, all of Paisley, Oregon.

Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 22 day of April, 1907. J. N. Watson, Register. 7-10

TIMBER LAND NOTICE.

United States Land Office, Lakeview, Oregon, Dec. 31 1906.

Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon, Nevada and Washington Territory," as extended to all the Public Land States by act of August 4, 1892., William J. Moore of Lakeveiw, county of Lake, State of Oregon, has this day filed in this office his sworn statement No. 3532, for the purchase of the W½ SE¼ SE¼ SE¼ Sec. 33 SW¼ SW¼ of Section 34, township No. 36, S., Range No. 20 E., W. M., and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim to said land before Register and Receiver at Lakeview Oregon, on Friday, the 2[illegible] March, 1907. He names as witnesses: W. L. Snel[illegible]ns, E. [illegible] Rinehart, [illegible], all of Lakeview, Oregon.

Any and all persons claiming adversely the above described lands are requested to file their claims in this office on or before said 22 day of March 1907.

J. N. Watson, Register.

Saved her Son's Life.

The happiest mother in the little town of Ava, Mo., is Mrs. S. Ruppee. She writes: "One year ago my son was down with such serious lung trouble that our physician was unable to help him; when by our druggist's advice I began giving him Dr. King's New Discovery, and I soon noticed improvement. I kept this treatment up for a few weeks when he was perfectly well. He has worked steadily since at carpenter work. Dr King's New Discovery saved his life." Guaranteed best cough and cold cure by Lee Beall, Druggist. 50c and $1.00. Trial bottle free.

CASTORIA. Bears the Signature of Chas. H. Fletcher. The Kind You Have Always Bought

TIMBER LAND NOTICE.

Lakeview., Oregon. Jan. 29, 1907.

Notice is hereby given that in compliance with the provisions of the Act of Congress of June 3, 1878, entitled "An Act for the sale of timber lands in the states of California, Oregon, Nevada, and Washington Territory," as extended to all the Public Land States by Act of August 4, 1892, George A. Gilbert of Lakeview, County of Lake, State of Oregon, has this day filed in this office his Sworn Statement No. 3556, for the purchase of the N½ S½ of Sec. No. 35 in Tp. No. 37 S., Range No. 19 E., W. M., and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim to said land before Register and Receiver at Lakeview Ore, on Friday the 12th day of April, 1907. He names as witnesses: G. H. Lynch, W. I. McCulley, M. Musgrave, Leo Emmerson, all of Lakeview Oregon. any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 12 day of April, 1907.

5—10 J. N. Watson Register.

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