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# MAKING DIRT ROADS the road, so that as soon as it an honest day's work on the has dried out it will be firm and road. Let us eliminate what is State Geologist Pratt Tells How To Do It==

# Taking Care of the Water the Most Important Thing To Consider==Valuable Information For Overseers.

When we stop to consider the age for the road. Water must face as a dirt road as much as This road force is not only hard number of miles of road in any be kept away from the road, and possible; and, therefore, care on the rabbits, but also hard on county and compare this number the rain which falls on the road should be taken not to have too the roads. with the small number repre- must be permitted to run off as much shade along a dirt road, senting the miles of specially rapidly as possible, and by a and, where necessary, the trees because it is a cheap road masurfaced road, we can readily very easy grade. It must not should be cut away so that the chine, but use it constantly, for see that it will be a great many only be taken off the surface whole surface of the road is ex- it is the most efficient road mayears-perhaps generations-be- of the road as rapidly as possi- posed to the sun for at least chine that we can use in mainfore all, or even half, the public ble, but also out of the side several hours during the day. roads are surfaced with macad- ditches. Care should be taken Shade is good for a macadam am, or sand-clay. For this rea- that these side ditches are not road, but bad for a dirt road.

to solve.

The old idea that anyoody can build a dirt road is fast losing ground, and our people are be-ginning to realize that road con-struction, even of dirt roads, re-quires the services of men who have been trained in this line of work. As careful thought should be given to the construct-ion of dirt roads as is given to the hard-surfaced roads; and in just the labor tax for the con-struction of their public roads a the services which rely on just the labor tax for the con-struction of their public roads a struction of their public roads a the services which rely on just the labor tax for the con-struction of their public roads a struction of t build a dirt road is fast losing road has been constructed so How many times have we seen struction of their public roads a prevent seepage of water under overseer in charge of each secgreat advance can be made if the surface of the road, there tion, whose duties should be to said tract bounded as follows: Begin this labor tax is utilized under should be little difficulty in keep- go over every mile of his section grees the supervision of an experienced ing the road in good condition. after every rain and at least chains to a stake, thence road engineer.

should be constructed so that it to keep it up, so that the drains a road simply once a year will will readily shed the rainfall.

nearly the whole year.

tal to a dirt road, the sun should a few tools which often are not be permitted to strike the sur- considered worth using at home.

concave, with the center of the character and consistency from

The old idea that anybody can road the lowest point. If the dirt surface of the road.

is the only permanent portion of the road to the other; and needing repair, he should have thence North 34 of the road; therefore, great care when this is necessary, it should it done. After each heavy rain should be taken that when the be done by means of either he should run a road drag over so as to permit of an easy grade system of drainage has been in--none over 41-3 per cent-and stalled menuicing should be made themselves, and that repairing N. O. PETREE, Commissioner. -none over 41-3 per cent-and stalled, provision should be made themselves, and that repairing and the culverts will not become not keep it in good condition.

with readily shed the rainfall. How often we see a road going up a hill and down the other side, when, by building around the side of the hill, it could have been kept at an even grade, reaching the identical point with-in the same distance, or but a little greater. If, in grading a road, we have any grades over 4 1-3 per cent posing the surface of the balance of the road, thus softening the of the road. If, on the other surface and destroying the solid, hand, holes or ruts are filled firm bed that you have obtained with rock, gravel, or brush, the by previous work; but throw this material out on the opposite wearing effect will be uneven, and the wheels will begin to side of the ditch. Don't leave the center of the scoop and cut out holes just beroad the lowest point; but make yond or on the opposite side of it the highest and give the surthe road from the hole filled up. face of the road a slope of about If there are stumps or rocks in 1 in 20 to the side ditch. the road, they should all be re-Don't carry the water across moved, so that the dirt surface the surface of the road from one side to the other; but carry it by means of culverts underneath Atty. for Adm'r. can be smoothed over and brought to an even slope from the center to the ditches. After means of culverts underneath the road. the road has been well construct-

hard. The drag will fill up the often seen in those sections ruts and holes and will keep the where the roads are maintained dirt road in first-class condition by the labor tax-ten or twelve with hard surface, throughout men and an overseer, a little grey mule, a small plow, six As moisture is very detrimen- dogs, three or four guns, and

Don't reject the split-log drag taining the dirt road.

#### J. A. GENTRY.

an, or sand-clay. For this rea-son it is very important that we should give very careful consid-eration and thought to the con-struction and maintenance of the dirt road. When properly constructed, the dirt road can be kept in good to no arrangement was made for taking care of the water, whole year, except, perhaps, and thaws. At the present time we have very few earth roads but what can be improved, and usually the question of improve-ment is not a very difficult one to solve. The dirt solution of the mater flat, or even to solve. The dirt solution of the solution throughout near the solution throughout near the solution throughout near the solution the solution the solution of the solution of the solution the solution

## NOTICE OF SALE OF REAL ESTATE.

of the Superior Court ning at pointers, thence North 30 de grees West, 9 chains to a maple thence North, 33 degrees East, 33 North bad engineer. The location of any public road the water from one side the side road in good condition, very two weeks, and wherever the not side road in good condition, there wery two weeks, and wherever there wery the water from one side the side road in good condition, there wery two weeks, and wherever there wery the water from one side the side road in good condition, there wery two weeks, and wherever there wery the water from one side the side road in good condition, there wery two weeks, and wherever there wery the water from one side the side road in good condition, the side road condition, the side road condition, the side road in good condition, the side road chains to a sassairas North 31 degrees West chains to a black gum, thence Nort 44 degrees East, 10 chains to a rock , thence North should be taken that when the road is once constructed there should be no question whatever regarding its relocation. In lo-cating a road it should be done surface of the road. After the so as to parmit of an easy grade

NOTICE!

April 20th, 1911. GEORGE LEWIS, J. P. LEWIS, Administrators of Abram Lewis, deceased. J. D. HUMPHREYS, Atty. for Adm'rs. NOTICE! NOTICE: Having duly qualified as adminis-trator of the estate of Thomas J. Tuttle deceased, notice is hereby given to all persons holding claims against the said estate to present the same to me, properly authenti-cated, for payment on or before the 25th day of April, 1912, or this notice will be pleaded in bar of their re-covery, and all persons indebted to said estate are required to come for-ward and make immediate settle-ment. This April 15th, 1911. GEORGE W. TUTTLE.

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any grades over 4 1-3 per cent. it will be necessary to construct across the surface of the road a V-shaped surface ditch to turn the water off the surface of the road, for if this is not done the water will, with the grade over 4 1-3 per cent. have momentum enough to seriously gully the surface of the road. No matter how carefully these V-shaped ditches across the surface of a road are constructed, they are very inconvenient to travel, are hard on the wagons, and should be avoided wherever possible. They can be avoided if the grade is kept below 41-3 per cent.

The dirt road is more susceptible to damage by water than, of course, any of the specially surfaced roads; therefore, great care should be taken to work after a rain when the roadbed out an efficient system of drain- is wet, will smooth and shape up make a holiday of it; but give J. D. HUMPHREVS, Atty.

ed and the right slope and sur-face obtained, it can be kept in this condition very readily by judicious application of the split-log or King drag. This simple road machine, if used regularly road machine, if used regularly labor tax on the roads, try to

#### NOTICE!

years. This April 21st, 1911. CORA HAWKING.