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### GOOD WORK DONE BY ROAD DRAG

Present Implement Great Improvement Over Split Log.

May Be Built in Any Country Blacksmith or Wagon Shop-Keeps Roads in Good Order.

Oregon Agricitural College, Corvallis.-How to maintain the highways of the district and yet save nough money to improve some new ection each year is the most perproblem confronting if any permanent improvement is attempted some road filled, he moves back, must be neglected, and if no gravel gets too high, reverse or macadam is laid he is accused of wasting funds by spreading them In either case, the sure to become

the highways are built of clay or other heavy soils, they maintained at slight ex-The aupervisor alone cannot get the best results from this implement, each look out for the road in front of his own property. More depends on the time the road is dragged than on any other one consideration, and only by taking short stretches can the work be done when the soil is in proper condi-

tion.
No road can be built with a drag. Stumps and rocks must be removed and too dry at the other. This is from the traveled way, proper drain-age must be installed, and the road the work alone; everyone must take

drag, but the skill to get the est results will only come with ractice. If you can manage to eep your feet on the platform dur-

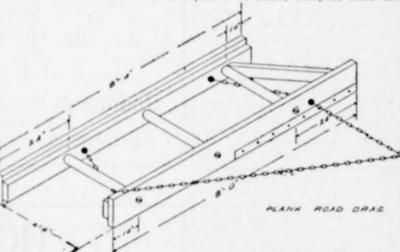
ing the first trip you are doing bet ter than the average novice. The following points should be renembered in the construction and use of the drag:

Build a light drag, one that you can lift if necessary. Any drag that requires more than two horses is too heavy and should be discarded or used on the grayel roads.

Hitch so that the drag will travel at an angle of 45 degrees with the center line of the road, and do not try to move too much material at The amount moved depends wholly upon the length of hitch and of the position of the driver earth than a short one. When a hard spot must be cut, the driver throws all his weight on the plank; when a soft spot must be gets too high, reverse the drag and move some of the material toward the ditches, taking care to smooth roads are apt to get too much crown until they have been dragged for

Drive the team at a walk and ride the entire distance. wheel track and back in the other Do not try to improve too wide a

be half the width of the traveled way, and a nine or ten foot drag Do not attempt to maintain too on the time the mach with the road too wet at



well crowned with grader. The drag will make this crown in time, but it is better to fix this right in the first place and ise the drag for maintenance alone. endition at slight expense until the

success of the split log and drags has led to the introthese are built of steel, of them being so heavy as to practically wheelless graders, All of them are excellent for filling ruts crowning the road, and the heavier ones are particularly serain traffic. The heavier drags move on much material at one time, the saving would be decidedly worth that does not puddle well, and the while.

rell to use planks. The accompanying diagram shows a drag built from to 3 inch planks, braced with 2x6 We can give good roads if we are to 3 inch planks, braced with 2x6 willing to work for them. We must ell to use planks. The accompanyinch pieces spiked to the inner sides. The cross braces are made from four

bored 10 inches and 24 inches, respectively, from the ends of the and your temper. lanks so that these will track when the drag is hauled at the proper angle. The hauling chain should be arranged so that the hitch may easily be adjusted, and the end nearst the center of the road should be passed over rather than through the front plank. This allows the earth to slide easily along the face of the drag. A platform of oneinch boards is laid on top of the

cross braces. The drag should be used soon after a rain. Wait until the ground has lost its stickiness and the material will slide easily along the face of the drag, but do not wait until the road is dry in any place. Dragging financial scheme of 50 per cent. profit.

Is that so? layers formed in previous operations and actually hurts the Very little improvement will be no-ticed after the first trial. Some that he found the cellar already full. of the ruts will be filled and some -Judga

Ancients Used Glass Mirrors.

That the ancients did not exclusive tury.

Idea of Prosperity. Having money to deposit in the bank in the middle of the week would be our idea of getting on in the world. -Detroit Free Press,

Remember that the drag is only good in clay or similar soils. A the least and if the drag is used be positively harmful. A sand road needs all the moisture it can hold and the drag drains this away

this system is simply nominal. Few of the materials for its construction although the district could arrord to furnish lumber to all who would agree to build and use one Roads in the Middle West have been dragged as low as \$2.50 per mile a year, and the highest cost was a trifle under \$10 per mile. that the roads of Oregon would cost that the roads of Oregon would cost \$10, the district would still have sufficient the full width of the deep roof layer the full width of the drag, and while verts and other permanent improvethis will break through easily, in time enough films are formed to sus-

layer never dries satisfactorily.

The first road drag was built from a split log by D. Ward King, a Missouri farmer. This material has certain advantages, but unless one has had considerable experience with an axe it will probably be as low as over the gravel, and in most cases no further improvement will be required until it needs macabe required until it needs maca-

decide whether we prefer to pay high hole. These should be split and wedged in shape. The ditch end is braced with a piece of 2xt. A piece of iron about 3 inches wide is bolted to the ditch end of the front plank, extending half the length of the drag. nch pieces shaped to fit a two inch taxes for stone and gravel, or wheth-The holes for the cross pieces are note of the difference in your roads.

> Paternal Wisdom. "Pa, how much is a peck of trou-

> "Apparently it isn't very much, my

"You mean it doesn't take up much room, pa?" "Yes. I have known a peck of trou

ble to be carried on the tip of a woman's tongue."

Wasn't Near Enough, Bluff-I understand that Jones was

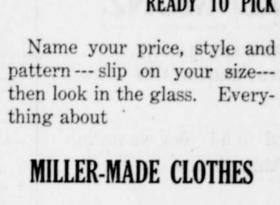
Sham-He got in on the ground floor all right, but the trouble was

Breeding Shows for Itself.

College may teach you form-conty use mirrors of polished metal, as act may brush somethings away; but generally believed, has just been breeding, like a complexion, is more proved by the finding of a number of than a surface. Unless it's real, it small glass mirrors in a graveyard at only makes one wonder what's really Laibach, Austria. They are said to inderneath. When it is assumed, it's date from the second or third cen bound to wear off from time to time,-Herbert Kaufman.

> The Question, "How Much?" The millionaire's daughter, even though she is not personally so very prepossessing, is likely to be taken at her "par" value,





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