

Popular Split-Log Drag for Use on Earth Roads

The Observer has been asked for a description of the split-log drag, recommended by Roadmaster Waldo J. Finn of Polk county, and practical road makers generally, and it finds the following directions in Farmers' Bulletin No. 321, issued by the department of agriculture, and written by D. Ward King himself, the greatest of all exponents of this drag:

The log should be seven or eight feet long and from 10 to 12 inches in diameter, and carefully split down the middle. The heaviest and best slab should be selected for the front. At a point on this front slab, four inches from the end that is to be at the middle of the road, locate the center of the hole to receive a cross stake, and 22 inches from the other end of the front slab locate the center for another cross stake. The hole for the middle stake will lie on a line connecting and halfway between the other two. The back slab should now be placed in position behind the other. From the end which is to be at the middle of the road measure 20 inches for the center of the cross stake, and six inches from the other end locate the center of the outside stake. Find the center of the middle hole as before. When these holes are brought opposite each other, one end of the back slab will lie 16 inches nearer the center of the roadway than the front one, giving what is known as the "set back." The holes should be two inches in diameter. Care must be taken to hold the auger plumb in boring these holes in order that the stakes shall fit properly. The hole to receive the forward end of the chain should be bored at the same time.

The two slabs should be held 30 inches apart by the stakes. Straight-grained timber should be selected for the stakes, so that each stake shall fit snugly into the two-inch hole when the two slabs are in proper position. The stakes should taper gradually toward the ends. There should be no shoulder at the point where the stakes enter the slab. The stakes should be fastened in place by wedges only.

When the stakes have been placed in position and tightly wedged a brace two inches thick and four inches wide should be placed diagonally to them at the ditch end.

The brace should be dropped on the front slab, so that its lower edge shall lie within an inch of the ground, while the other end should rest in the angle between the slab and the end stake.

A strip of iron about three and one-half feet long, three or four inches wide and one-quarter of an inch thick may be used for the blade. This should be attached to the front slab, so that it will be one-half inch below the lower edge of the slab at the ditch end, while the end of the iron toward the middle of the road should be flush with the edge of the slab. The bolts holding the blade in place should have flat heads and the holes to receive them should be countersunk.

If the face of the log stands plumb it is well to wedge out the lower edge of the blade with a three-cornered strip of wood to give it a set like the bit of a plane.

A platform of inch boards held together by three cleats should be placed on the stakes between the slabs. These boards should be spaced at least an inch apart to allow any earth that may heap up and fall over the front slab to sift through upon the road again. The end cleats should be placed so that they will not rest upon the cross stakes, but drop inside them, while the middle cleat can be shifted to either side of the middle stake. These cleats should extend about an inch beyond the finished width of the platform.

An ordinary trace chain is strong enough to draw the implement, provided the clevis is not fastened through a link. The chain should be wrapped around the rear stake, then passed over the front slab. Raising the chain at this end of the slab allows the earth to drift past the face of the drag. The other end of the chain should be passed through the hole in the end of the slab and is held by a pin passed through a link. One and one-half trace chains are sufficient.

In many logs the grain runs around the tree in such a way that when split the slabs will be in a "wind." If this wind is not more than four inches in eight feet the timber can be used to good advantage by setting it so that the blade end of the log shall slant forward when the other end is perpendicular. The construction of the drag in this case is the same as given above, but care must be taken that the holes bored to receive the stakes are plumb. No wedging under the lower edge of the blade is necessary in using such a log.

Drags are often constructed of planks instead of logs. There is nothing in the construction of a plank drag that calls for particular mention

except the strengthening of the planks along their middle line by a 2 by 6 inch strip. A triangular strip may be used under the lower edge of the blade to give it the proper cutting slope.

Two mistakes are commonly made in constructing a drag. The first lies in making it too heavy. It should be so light that one man can easily lift it. Besides, a light drag responds more readily to various methods of hitching and to the shifting of the position and weight of the operator, both of which are essential considerations. A drag can be made heavier at any time by proper weighting.

The other mistake is in the use of squared timbers, instead of those with sharp edges, whereby the cutting effect of sharp edges is lost and the drag is permitted to glide over instead of to equalize the irregularities in the surface of the road. These mistakes are due partly to badly drawn illustrations and plans of drags which have occasionally appeared in newspapers and partly to the erroneous idea that it is necessary that a large amount of earth shall be moved at one time.

A dry red cedar log is the best material for a drag. Red elm and walnut when thoroughly dried are excellent, and box elder, soft maple, or even willow are preferable to oak, hickory, or ash.

COURT HOUSE NEWS.

David D. Peters, administrator of the estate of Isaac Dyke, deceased, has given notice of his resignation, and the matter will be heard on February 24.

Wilhemine Ziesch has been appointed executrix of the estate of her late husband Friedrich, and Messrs. J. L. Hanna, J. J. Fenton and S. C. Hanna are appraisers of the property. The Bentley Telephone company of Bentley has filed a trust deed for \$1,500 to the Lumbermen's Trust Co.

Henry W. Voth has deeded to Peter H. Berg and Katie C. Berg, his wife, 36.40 acres of land in section 8, township 7, south range 5, west Willamette meridian, consideration, \$2,200.00.

Mattie Davis and Angus H. Davis, her husband, have deeded to Nettie T. Smith, eight acres of land in township 7, south of range 3, west Willamette meridian, consideration, \$1,700.00.

F. J. Chapman has filed a mechanics lien on the dwelling house of C. W. McNamar, the amount claimed being \$140.54.

Jessie C. Westover has transferred lot 1, block 6, in Dallas to J. J. Wick, the consideration being \$600.

The administration of the estate of Elizabeth F. Lucas, deceased, has been given authority to sell personal property at private sale.

FORESTRY GRANT IS URGED.

Loss in Taxes Due to Fires of 1910 Put at \$161,455.

Up to the present time the counties of the state have lost, in taxes alone, as a result of property destroyed by forest fires in 1910 the sum of \$161,455, according to a statement made by State Forester Elliott. The loss in timber during that year amounted to \$1,640,997. Since the year 1910, according to Mr. Elliott, the destruction by forest fires has been cut down by the work of the state forestry department and the various fire-fighting associations until the loss during the summer of 1914 was only \$26,445, despite the fact that it was an unusually dry season. Relative to the expenditures of the state forestry department, Mr. Elliott said:

"The state appropriation for forest protection the last session of the legislature was less than 6 1/2 per cent of the amount appropriated to assist farmers and stockmen, despite the fact that lumbering is the biggest industry in the state. The forest industry brings into the state daily some \$70,000 and annually some \$30,000,000. Fish brings in annually only \$5,000,000; fruit, \$6,750,000; wheat, \$16,000,000, and dairy products \$17,000,000. Without an adequate state appropriation for protective work, financial assistance from the federal government, which amounted to \$35,000 during the past four years, will be withheld and the progress of the past four years will receive a serious setback."

LIBRARY NEEDS HELP.

New Books Needed and It Takes Money To Buy Them.

The Independence library needs help. So one of the board tells the Monitor. Funds ought to be supplied in some manner that several hundred new books might be added. The library is a good asset to the community. It furnishes recreation, amuse-

ment and information to a large number of people of all ages. Many constant readers have read everything to their taste on the shelves and many of the books are soiled. New "life" is needed and as a public library is nearly a charitable institution, it is in order for some public spirited citizen to come forward and take the initiative in raising money for the benefit of this city public library.—Monitor.

SENT TO EXILE.

From H. J. Altnow, secretary-treasurer Oregon Retail Hardware & Implement Dealers' association, Milwaukee, Oregon: "The poem sent you was furnished me by a friend, and has never been published that I know of. I think it might do some good if the dealers would read it, and apply it to themselves. If published in the country newspapers it might get some of the farmers to think twice before sending their cash to the mail order houses."

Tale of The Dollar Bill.

"A farmer went to town, to spend Some of his hard-earned dough, And in a merry jest, and just To show his printing skill, He printed his initials on A brand new dollar bill. He spent that dollar that same day, Down in the village store, He thought 'twas gone forever then, And he'd see it no more. But long before the year rolled by One day he went to fill A neighbor's order, and received That same one dollar bill! Once more he spent that dollar bill In his own neighborhood, Where it would do himself and friend The most amount of good. Four times in two years it came back, As some bad pennies will; And each time he'd go out and spend This marked one dollar bill. Had he been wise that dollar might Be in his town today, But just two years ago He sent it far away. The people who received it then I know have got it still, For 'twas to a Mail Order House He sent his dollar bill! No more will that marked dollar Come into the farmer's hands, And nevermore will help to pay The taxes on his lands. He put it where it never can Its work of life fulfill; He brought about the living death Of that one dollar bill."

GOAT HAIRS

The Odd Fellows of Falls City recently installed the following officers: N. G., N. A. Lund; V. G., John Hughes; secretary, J. C. Talbot; treasurer, Geo. M. Tice; warden, Wm. Ellis, conductor, G. D. Treat; O. G., Tom Hollowell; R. S. to N. G., J. R. Moyer; L. R. to N. G., Billie Murry; R. S. to V. G., F. K. Hubbard; chaplain, L. B. Murry.

The Rebecca lodge of Falls City has the following officers for the ensuing year: N. G., Mrs. Tom Hollowell; V. G., Mrs. Wm. Finley; secretary, Mrs. Jessie Moyer; treasurer, Mrs. Jennie Cobb; L. S. to N. G., Mrs. H. Tice; R. S. to V. G., Mrs. Geo. Tice; L. S. to V. G., Mrs. Wm. Ellis; warden, Mrs. Maggie Talbot; conductor, Mrs. Krebs; I. G., Mrs. G. W. Gardner; O. G., Mrs. H. S. Tetherow; chaplain, Mrs. Minnie Moyer.

Sunday School Convention.

On February 13 and 14 a Polk county Sunday school convention will be held at the Christian church at Monmouth, for which the following committees have been appointed to make arrangements: Reception, W. W. Mack, A. N. Poole and Mrs. F. R.

ANNOUNCEMENT.

To my old friends and patrons, and the many new ones that I hope to gain:

I take this means of announcing that, after a year's lay off, I have again taken charge of my planing mill in Dallas, and am now prepared to promptly fill any and all orders that may be placed with me.

You will please bear in mind that the Dallas Planing mill is the largest and best equipped plant of its kind in Polk county—the only one using a drum sander, without which first class work can not be turned out.

Every man employed in the mill is a competent workman in his special line, and in every case where the order calls for first class work and materials, we guarantee that it will be so filled—at a price defying competition for like materials. If you want a cheap job we can furnish that also. It is our aim to give one dollar's worth of goods for every dollar paid. Soliciting your patronage, I am, yours truly,

F. J. COAD.

Bowersox; entertainment, Mrs. L. Waller, Mrs. J. W. Leask, Miss Lucy Crapson, Marie Morlan and Laurel Canning; registration, Neta Waller, Marian McDonald and Mrs. F. C. Davidson; music, H. F. Jones and O. M. Garvin.

The hot tamale supper given by the Loyal Women's class of the Christian church last Friday night was well attended. The High school orchestra furnished music.

BULLETIN

ONE CENT A WORD EACH TIME.

FOR TRADE—Small ranch near Eugene; extra good buildings; spring water piped to house and barn; two miles from town of 3000; canyons that takes fruits and vegetables. Will trade for Dallas property, or will sell at a bargain on long time. Apply at The Observer office. 93-1f

FOR SALE—Desirable building lot four blocks from postoffice. See S. B. Taylor, room 10, National Bank building. Phone 453. 93-1t.

WANTED—More want ads. for this column. They give the desired results. The cost is slight—only one cent a word for each insertion. If you have anything to sell or trade, or want to buy, try a want ad. in The Observer. 91-1f

WANTED—Three-inch wagon. Phone South 151. 91-2t.

FOR SALE—Cow, fresh soon. Phone Mill 5515. D. C. Walker. 91-1t-x

FOR SALE—Hay and straw. J. F. Holman. Phone 1551. 91-2t-f-x

WANTED—Men to cut oak rick wood on shares. Liberal terms. L. W. Plummer, telephone, West Red 4. 90-2t-x

FOR SALE—Four heifer grey Jerseys, due to freshen July or August. A. G. Rempel; phone Dixie 515. 89-1f.

WANTED—Veal calves and chickens. Will pay the highest market price. Call 5 Shorts—A. D. Line. 89-1f.

FOR RENT—Furnished rooms for light housekeeping. Inquire 403 Ash street. 90-2t-x

TO EXCHANGE—For Dallas property, a block of about 12 lots with 8 room house; rents for \$20.00; good barn, fruit, etc., near paved street, situated on College Hill, Corvallis, Oregon. Price for 10 days only \$4,000; joining lots sell at \$500 each. A quick deal or no deal. Address J. A. Kerr, Corvallis, Oregon.

GOVERNMENT LAND.—In Polk, Benton and Lincoln counties, for homestead entry, 4,680 acres, southwest of Dallas. Correct description and number of acres in each piece, \$1.00 for same. Clinton Foster, Blackstone hotel, Portland, Oregon. 94-2t.

FOR SALE—Registered Jersey bull, two years old; solid color, silver grey, the Hazel Fern combination. C. Nelson, Monmouth, Ore., phone 54 Antioch. 79-1f.

WANTED—Going ranch with stock and tools for Portland property and cash. Chas. N. Carr, 219 Board of Trade, Portland, Oregon. 92-1t-x

DR. TOEL ELECTRO-THERAPIST AND ELECTRO-SURGEON DALLAS, ORE.

FOUR YEARS STUDY AT GERMAN AND SWISS UNIVERSITIES AND THE LARGE HOSPITALS OF LONDON, ENGLAND. OVER THIRTY YEARS EXPERIENCE IN HIS SPECIALTIES.

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Patients from out of the city wishing to consult him must inform him before hand by letter or telephone of the time of arrival of their trains to make sure that they can be seen the same day.



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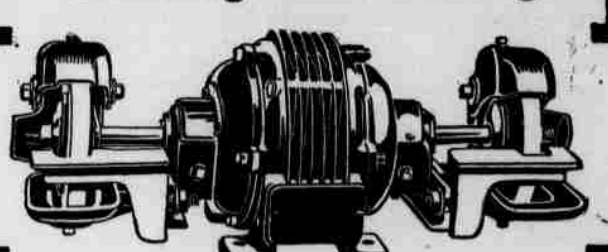
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**When You Want Something
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You can always depend upon K C not to disappoint you. The double raise makes doubly certain—nothing is left to "luck." If the batter is a little thin, K C will raise it light and feathery and it will be all the better. Jarring the stove or turning the pan around makes no difference—K C sustains the raise until baked.

When there's a birthday or wedding cake to bake, or refreshments for reception or party to provide, take no chances—

Use K C