



# The MADRAS PIONEER

The Oldest Advertising Medium in Northern Crook County, has four purposes:

- I. To acquaint its readers with all the important news happening in which its readers can be interested.
- II. To exploit the advantages of Madras, Crook County and Oregon.
- III. To act as an advertising medium between merchants and buyers.
- IV. To do a general job and commercial printing business.

The Pioneer Publishing Company is better able to carry out these purposes for the following reasons:

It sets all of its type with a new Unitype machine, thus doing away with the old manner of setting type by hand, prevalent in most country printing offices. By the use of this new typesetting machine valuable time is saved which can now be used in improving job work and general printing. The best improved printing presses and machinery are used throughout the shop, thus insuring all patrons that their orders shall be filled in most approved style.

All general Advertisements, Letter Heads, Note Heads, Bill Heads, Envelopes, Posters, Catalogs, Constitutions and By-Laws, Wedding Announcements and Invitations, are given careful attention, that patrons may be pleased with our work. See us for rates before you give your next order. Call or phone.

## Pioneer Publishing Company Madras, Oregon

### Some Principles of Soil Moisture

The first and most important process in saving soil water is to get it into the soil. If a rain of three inches falls and only one inch soaks in, the land is better off than if only one inch fell. In fact the land may be much worse off because the inches of rain which ran off have beaten and puddled the surface soil so as to favor the formation of a crust, which causes either heavy work to break it up or loss of some soil if it is not broken up. Consequently cultivated land should be kept in the best possible condition for catching rain-

What is that condition? A soil takes water rapidly, and a dry soil very slowly. When the first thing to be done is to keep the soil always moist. It moves much more rapidly in moist soil than in a dry one. Dry soil actually repels water. How is it possible to keep a soil moist? It requires certain methods of cultivating and cropping, based upon the principles of water storage and movement.

The surface treatment to be used to assist in catching rain-snowfall depends upon the nature of soil, whether sandy, silt, clay; upon the state of plowing, whether breaking or old land, and upon the kind of crop raised.

Sandy soils are open and porous, consequently they take rain readily. Such lands may be plowed relatively shallow because they will take rain practically as fast as it falls. Under natural conditions sandy soils will not take rain as fast as it falls, unless the rain is a drizzle. To make these close textured soils take rain as fast as it falls in normal conditions it is necessary to plow deep which takes in the water layer which takes in the water quickly. This loose layer of water, which is then plowed on more slowly to the surface, is seen to act as a capillary layer which catches the rain and holds it until it has time to seep into the subsoil. Plowing on old lands should be done as deep as possible, except for

sandy lands. If the plowing is done long enough before seeding to allow nature to do the settling and compacting it can scarcely be too deep on silt and clay lands. If, however, plowing cannot be done a considerable period before seeding, it should be relatively shallow, because usually it cannot be properly settled and compacted immediately prior to seeding. The disc following the plow will be of service, but it does not equal time and rainfall. Besides plowing breaks the existing moisture relations and some time is essential to readjustment. Unless followed by raining, deep plowing immediately before seeding will give poorer yields than shallow plowing.

Whether new breaking shall be deep or shallow depends upon the surface conditions. If the surface is covered with grass sod, the first breaking should be shallow, two or three inches and rolled down flat immediately behind the plow. Sod cannot be well broken unless the soil is moist. The sod does not turn well or roll back flat unless moist. Then rotting, so essential to the best success on new breaking, takes place only when the soil is moist.

Land that is covered with sagebrush or is not in sod should be broken deeply, as well as old land, and for the same reason. It catches water better when broken deeply.

The formation of a crust on plowing forms a layer through which water enters slowly. When such a crust is formed it should be broken up so that the soil will have a maximum catching power for future rains.

After the water is caught by the soil, it undergoes certain movements. When it moves downward through the spaces between the soil particles by its own weight, we may say it percolates. When it crawls upward or downward or sideways like water in a lump of sugar or oil in a lamp wick, we say it has capillary or film movement, because it moves along as a thin film movement over the surface of the soil particles. Sometimes changes in temperature cause the soil to move. In that case

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### ITEMS OF INTEREST

**FOR SALE**—A house and four lots for less than cost on north side of Madras. The house is well built but not quite finished, the lots are 50x100. Must be sold at once. For information write Ora Van Tassel, Vanora, Ore. jy 20-1f

**FARM LOANS!!** Madras State Bank.

**FOR SALE**—At the Pioneer Office Legal Blanks of all kinds; Carbon and Typewriter paper, installment Sale contracts, Notes and Receipts.

**MONEY TO LOAN ON FARMS.** See Madras State Bank.

**TO LOAN**—Money on deeded land. Inquire of H. W. Turner.

**TO LOAN**—\$50,000.00 on farm lands. See Brenton Jones, Metolius, Ore.

New line of **DOLLS** just received at Mrs. Crosby's.

Just arrived at the Tum-A-Lum Lumber yard, a car load of old fashioned maple wood. Call and look it over before buying. Wm. Easestyn, Manager. d28-1f

### 1912 CATALOG

Mailed Free



**---AND BUILD IT FOR LESS MONEY**  
Buy the millwork direct from our big factory for one-third to half of what you would pay your local dealer. We operate our own mill and can guarantee every piece we make to be well-made and of choice kiln-dried lumber.

**G. B. WILLIAMS' SASH AND DOORS**  
5-panel doors, 15 sizes, \$1.30. Craftsman bungalow doors, \$1.60. Bungalow front doors, \$5 and \$6. Inside trim, 10 pcs. to a set, 80c.

Write for catalog 35c. Free.



**A. E. CROSBY** THE DALLES OREGON  
**EVERYTHING IN DRUGS AND KODAKS**

### PROFESSIONAL CARDS.

**E. BERGLAND**  
Attorney At Law  
MADRAS, OREGON

**W. H. SNOOK**  
PHYSICIAN & SURGEON  
Office in Drug Store.  
MADRAS, OREGON

**O. C. COLLVER**  
NOTARY PUBLIC  
Justice of the Peace  
CULVER PRECINCT  
CULVER, OREGON

**LEWIS H. IRVING** **P. T. ATKINS**  
ATTORNEYS AT LAW  
INSURANCE  
Office of D. W. Barnett.  
MADRAS, OREGON

**ORA VAN TASSEL**  
NOTARY PUBLIC  
INSURANCE  
VANORA, OREGON

**D. W. BARNETT**  
NOTARY PUBLIC  
FOR OREGON  
Collections a Specialty.  
MADRAS, OREGON

**W. P. MYERS**  
LAWYER  
CULVER JUNCTION, OREGON  
Practice in all courts and Department of the Interior.

**CROOK COUNTY ABSTRACT CO.**  
INCORPORATED  
Completes tract index to all land and town lots in Crook county. Abstracts made accurately on short notice.  
PRINEVILLE, OREGON

**HOWARD W. TURNER**  
U. S. COMMISSIONER  
NOTARY PUBLIC  
INSURANCE  
MADRAS, OREGON  
See new line of Gold-stone jewelry at Mrs. Crosby's.

European Plan Newly Furnished Throughout

## McTAGGART HOTEL

Best Service Possible Given To The Public

Auto Service to All Points of Interest

MADRAS, OREGON

## LOW FARES WEST

Spring Colonist Period—Daily Mch. 1-April 15 to all CENTRAL OREGON POINTS on



FROM	
Chicago	\$33.00
Cincinnati	37.90
Milwaukee	31.50
St. Louis	32.00
New York	50.00
Detroit	38.00
St. Paul	\$25.00
Kansas City	25.00
Omaha	25.00
Des Moines	27.85
Indianapolis	36.85
Denver	25.00

From other eastern points in proportion. Tell your friends in the East of this opportunity of moving West at low rates. Direct train service via Burlington Route, Northern Pacific, Great Northern, "North Bank" and Oregon Trunk Railways. You can deposit funds with me and west bound tickets will be furnished people in the East.

Details will be furnished on request.  
**W. E. COMAN**  
Gen'l Freight and Passenger Agt.  
Portland, Ore.  
**J. J. HOYDAR**  
Agent  
Madras, Ore.