

GEOLOGICAL SURVEY
MAPS COMPLETEDWork on Three Quadrangles
Near Coast Ended in 1921.

REVISED EDITIONS ISSUED

Gardiner, Earl and Mapleton
Sheets, Covering 225 Square
Miles Each, to Be Published.

The Oregonian publishes annually a summary of the increase in geographic knowledge of the state of Oregon, prepared by Lewis A. Searles, secretary of the Oregon geographic board. Mr. Searles is an authority on Oregon geography and the maps he describes will be of value to Oregonians.

As the result of co-operative field work between the United States geological survey and the United States army, topographic surveys of three quadrangles near the Oregon coast were completed during 1921. These three quadrangles cover an area of about 225 square miles each, and will be published as the Gardiner, Earl and Mapleton sheets. In addition, the geological survey and the state of Oregon surveyed the Mount Angel sheet in the Willamette valley.

All the work done on these four sheets was for publication on the scale of one inch to the mile, in three colors, with complete details of topography, streams, roads, trails and other features. Preliminary proofs will be available during the spring of 1922, and engraved sheets about a year later. No plans have as yet been made for field work during 1922.

During the past year the geological survey published several new quadrangle maps covering areas in Oregon. These included Hecla, Head and Siltcoos lake sheets on the coast and Cottage Grove sheet south of Eugene. In addition, three fragmentary sheets in the Willamette valley, Lebanon, Brownsville and Corvallis were issued to the public. All the sheets issued in 1921 were on the scale of one inch to the mile and may be obtained from geological survey agencies in Portland.

Revised Editions Issued.

As the result of efforts made by the Oregon geographic board and by the forest service, the geological survey has begun to issue revised editions of topographic maps originally issued several years ago. The new editions are not absolutely up to date, but they include all new data that could be secured without extensive field work, and particularly new or changed names. Among the revised sheets issued are: Portland, Oregon City, Mount Hood, Blackfoot, Eugene, Grants Pass, Ashland and Klamath. New issues of Hillsboro, Mount Hood and other sheets with additional data will be forthcoming in 1922.

The geological survey now has on the press the Waldport, Elmira and Monmouth sheets, all of which will be ready for distribution in 1922. These are all new.

During the past two years the United States coast and geodetic survey has done a great deal of important field work in Oregon. The Utah-Washington are of triangulation extending from Salt Lake points near Portland has been completed and many important geographic features have been accurately located. The publication describing these are all the geographic points will soon be completed at Washington. The are of precise triangulation from Mount Shasta to northern California to a point near Nampa, Idaho, has also been completed and is now being prepared for publication. This are will furnish geographers information covering a large number of points in southeastern Oregon that have heretofore been but little known. These exact locations and elevations will soon be available.

Valuable Lines Completed.

In addition to triangulation work the geodetic survey has completed precise level lines of great accuracy from California through Oregon to Seattle along the Southern Pacific, from Portland to Port Stevens, from Portland to Wallula, from Bend to Prineville, and an extremely valuable line from Klamath Falls eastward through south central Oregon to Burns and thence to Ontario. This is the first time accurate government levels have connected these two points.

The United States soil survey issued during the year an elaborate soil map of Yamhill county on a scale of an inch to the mile, with all important geographic features shown in colors. The Washington county and Josephine county maps have been completed in Washington and will be issued in 1922. Other soil maps now in course of preparation are Multnomah county, Clackamas county, Benton county and part of Polk county. It is hoped that part of Multnomah county will be completed in 1922. Maps of this type for Hood River, Klamath, Coos and Jackson counties have also been issued in recent years.

The forest service made important contributions to Oregon geography during the year, mostly in the shape of useful maps for travelers and tourists.

The Oregon bureau of mines made detailed topographic surveys in Columbia county, which are not yet available to the public, and also in parts of Wallowa county.

SHRINE LOYALTY PLEDGED

At Kader Temple to Help Make
Charity Ball Success.

Although the annual ball in honor of the potentate of Al Kader Temple, Mystic Shrine, will be held on January 20, A. L. Tetu, chieftain of the Portland Shrine, has sent out word asking members of this organization to give whole-hearted support to the charity ball to be held in the public auditorium January 18.

This ball is planned by members of Mayor Baker's unemployment committee as means for raising funds to carry on the work launched by this committee some weeks ago. Potentate Tetu said yesterday that he hoped every member of Al Kader temple would do everything possible to make the charity ball a success.

Women to Be Put on Jury List.

ALBANY, Or., Dec. 31.—(Special.)—The names of women will be placed in the jury list of Lane county for the first time at the meeting of the county court next week. At this term the court will compile the jury list from which all jurors for service in the circuit court during 1922 will be drawn and the names of women will be included in this list pursuant to the new law.



YOU SAVE
The Store Is Full of Bargains



Dining Table and Four Chairs
Upholstered in Genuine Blue Leather

MAHOGANY FINISH WILLIAM AND MARY

BUCK'S
STOVES, RANGES
AND COMBINATION
RANGES
at Greatly Reduced
Prices

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Everything in the Store Reduced—Many Wanted Articles at HALF and LESS THAN HALF

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**Mahogany
Beds**
Regular price \$75.00
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Genuine Leather
**Overstuffed
Rockers**
Regular price \$37.50
\$25.00

Mahogany and Oak
**Tea
Wagons**
Regular price \$35.00
\$17.50

Mahogany Finish
**Lamp Stick and
Silk Shade**
Regular price \$30.00
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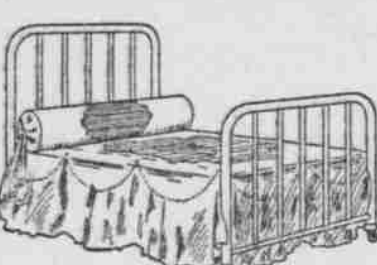
9x12
**Pro-Brussels
Rugs**
Regular price \$20.00
\$13.50

Good
**Breakfast
Tables**
Regular price \$5.00
\$2.50

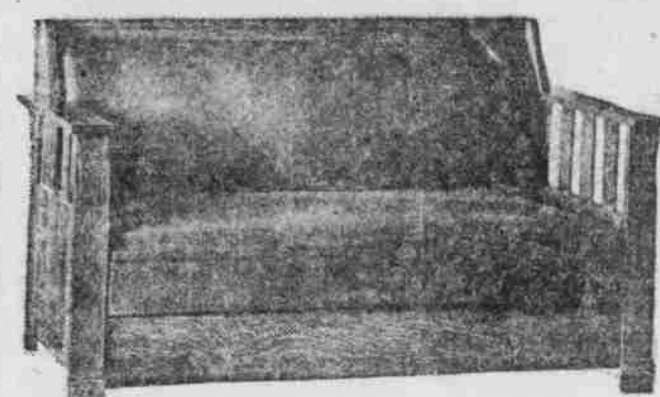
EASY TERMS
We take your old range
or gas range in exchange
—very easy terms on
the balance—a year to
pay.

NO INTEREST

BUCK'S
STOVES, RANGES
AND COMBINATION
RANGES
at Greatly Reduced
Prices



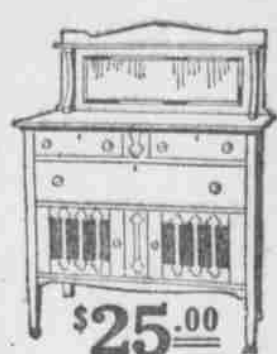
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BEDS
in Walnut, Bronze or
Oak Finish
\$8.95



Oak Duofold Davenport
Upholstered in Fine Imitation
Spanish Leather **\$45.00**



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DAVENPORT
Three Fine Loose Spring Cushions
A Wonderful Bargain
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**Genuine Oak
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Wax Finish
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9x12
Wilton Velvet Rugs
With Linen Fringe
\$47.50

A Few
Genuine Wilton Rugs
Slightly imperfect. You cannot
find the imperfections.
\$75.00

**Walnut or Mahogany Queen
Anne Dining Set**
DINING TABLE AND FOUR
CHAIRS, UPHOLSTERED
IN GENUINE LEATHER—**\$89.50**
THE SET.....

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Easy
Terms

FURNITURE CO.
185 First Street, Near Yamhill

NO
Interest

DEVICE LEVELS TRACTOR

OREGON INVENTION PERMITS

SIDE-HILL OPERATION.

E. G. Adams of The Dalles Solves
Problem That Has Hampered
Farming Upon Hills.

Successful operation of farm tractors on steep side hills, which has been extremely difficult in the past, seems assured if an invention of E. G. Adams of The Dalles proves practical. Mr. Adams and P. S. Plummer of The Dalles, who is associated with him, recently obtained a patent for the device, at Washington, D. C., and have been trying out the device in a practical way on a well known make of tractor on a hilly farm near The Dalles. The demonstrations are declared to have been highly successful.

Most makes of tractors are not designed to operate on steep side hills, and this fact has made development of tractor farming slow in many sections of Oregon, particularly in the northeastern grain belt where the country is quite rolling and side-hill work is essential. The ordinary type of tractor, not fitted with any special device, is thrown out of balance when operated on a side hill, and is inclined to slide down hill or to tip over.

The Adams attachment is designed to level up the tractor and bring it to a balanced position, no matter what the degree of steepness of the side hill upon which it is called to operate, within reasonable limits. The front axle is composed of three bars and works on the principle of the parallelogram. The leveling is accomplished by a lever at the driver's seat, which communicates with a drive shaft connected with the motor. The device is thus operated

MILL TO BE REMODELED

J. L. Bowman to Install Machinery

for Woolen Manufacture.

BROWNSVILLE, Or., Dec. 31.—(Special.)—The work of putting the woolen mill building in shape and ready for the reception of new machinery will begin this spring, probably in the month of March, according to J. L. Bowman of Portland, owner of the mill. Carpenters say that they have instructions to begin tearing down a part of the mill which has gone to ruin, and that March will see the work of erecting a new day room under way.

Mr. Bowman has made a bid on the machinery in the old woolen mill at Bandon which was recently sold at sheriff's sale. He will get machinery in the east if he does not procure this according to word received here.

Seniors to Hold Ball.

MONTESANO, Wash., Dec. 31.—

(Special.)—Invitations are out for the annual ball of the senior class of the Montesano High school. This winter it will be held the evening of January 13 at the Eagles hall.

DRIVE TO BE RENEWED

HOMER DAVENPORT MEMO-

RIAL FUND SOUGHT.

Silverton Committee Sends 1000
Letters to Friends of Cartoonist
Soliciting Contributions.

SILVERTON, Or., Dec. 31.—(Special.)—Although during the Christmas holiday season work on the Homer Davenport memorial fund has slackened perceptibly the committee has been steadily at work on plans to double its efforts at the beginning of the new year which will raise the remainder of the \$2500, which is the goal set; \$1000 of this already has been raised. Besides the amount sent in several encouraging letters have been received from interested friends outside of the state.

The fund committee printed 1000 letters and is mailing these to friends who may not have heard of the endeavor to raise a memorial for Davenport. The letters in part state: "Let us Forget" was the title of one of Davenport's famous cartoons that set in motion a wave of justice that overwhelmed and blotted out a movement of mistaken persecution that at one time appeared on the deep of public opinion. We wish to invoke the spirit of this cartoon to a different subject—its maker—and urge that the old days, the old admiration, the old associations, the old kindness and the old good be not forgotten.

The Homer Davenport memorial fund, since its inception two months ago, has made some progress, subscriptions at this date aggregating some over \$800. In the opinion of the committee, this should be called to your attention, as one of Davenport's admirers, together with the

fact that it is the firm intention to

erect a monument to his memory of

the best character his friends care to

provide.

"Davenport's grave lies in Silverton today unmarked. Will you join with others to remedy this condition and aid in the erection of a memorial worthy of his big-hearted life and his genius."

Allen Deported Second Time.

After having made two entries into the United States in violation of the immigration laws, Mike Hovan, a Canadian, has been convicted that honesty is the best policy, according to R. P. Bonham, immigration inspector. Hovan came here last spring by illegal methods and was deported.

A Few Days Ago He Was Found to Have

Arrived Here in the Same Illegal Man-

ner. Inspector Bonham caused his

arrest and took him back to Canada

with the warning that next time he

violated the immigration laws he

would be liable to severe punishment.

H. S. Lusk Out of Office

United States Attorney.

Hall S. Lusk, who for the last two years has been an assistant to Lester W. Humphreys in the United States attorney's office, completed his duties yesterday and Tuesday morning will

start the private practice of law with

his father-in-law, A. C. Emmons.

Allan Bynon of Salem, who has been

appointed to take the position re-

signed by Mr. Lusk, was sworn in be-

fore Mr. Humphreys yesterday morn-

ing.

ENDEAVOR MEET WANTED

Leaders for Portland as 1925 In-

ternational Convention City.

It was unanimously decided to attempt to have Portland selected as the convention city for the 1925 International Christian Endeavor convention at a recent executive session of Oregon Christian Endeavor lead-

ers. This convention would bring

from 15,000 to 25,000 young persons

to Portland during the 1925 ex-

position.

At the same meeting the tentative

program of the state convention

to be held in Salem February 16, 17,

18 and 19 was discussed. Another

meeting is to be held in Portland on

January 25, when Dr. Ira Landrith of

Chicago will stop here on a tour of

the coast states and speak at the

First Presbyterian church on world

peace and other timely topics and on

the world-wide growth of Christian

Endeavor work.

Irish terriers are used at night in

Westminster cathedral, London, to as-

sist in guarding the valuable articles

in use there.



WARNING! Always say "Bayer" when you buy Aspirin.

Unless you see the name "Bayer" on tablets, you are not getting genuine Aspirin prescribed by physicians over 21 years and proved safe by millions for

Colds Headache Neuralgia Rheumatism
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Accept only "Bayer" package which contains proper directions.

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TRACTOR, EQUIPPED WITH ADAMS DEVICE, AT WORK ON STEEP HILL.