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# **OF INTEREST**

TION OF SOIL MOISTURE BY W. L. POWERS

measured by the actual useful water cost of dry matter. work performed by a given quantity (c) Evaporation is responsible for ty from below. ficiency and maintain an optium sup- and it is this loss that must be un- contains a good caining a suitable supply.

f the late spring rains.

sand and clay is fixed. In ex- of an exposed water surface. Evap- moist soil unnecessarily.

ted crops than for meadows. A loose, in irrigation saved 22 per cent. face. (b) Transpiration is the pas- ation, but its importance is not fully and maintain a mulch recent period of abundant sage of water up through the plant appreciated and made use of. rainfall has left the soil unusually and out through the pores in the Mulches absorb rainfall and lessen with the tremenduous possibilities the drought resistance and water re- evaporation; aid ventilation; enems desirable to direct attention loss is greater in proportion to the plants more drought resistant.

a soil was increased on an average wetness of surface and character of compacted by spring rains, it is deof 8 per cent for each per cent of soil. Experiments conducted all ov- sirable to use such a tool as the hal-After applying ma- er the west show that a wet soil sur- lock weeder. nure to the field there was a gain in face may lose more than a water cultivated fields need early harrowmoisture about the manured strata, surface, but where the top layer of ing and continued, level cultivation ven before any irrigation or rain soil becomes dry there is a saving by to conserve moisture and keep weeds The soil's supply of moisture is call the loss from a water surface dry months in better moisture conlost in three ways, viz: percolation, 100 per cent then the unmulched dition and make more growth with transpiration and evaporation. The soil tank lost 56.7 per cent of the lower percentage of foreign matter former two of these can be little loss of the water surface; a 1-inch where they have been thoroughly EVAPORATION AND CONSERVA. controlled. (a) Percolation can be mulch 31.1 per cent; a 3-inch mulch cultivated in early spring with the leasened in irrigation by using only 22 per cent; and a 5-inch mulch on- alfalfa weeder and the loose earth moderate amounts of water, and by 13.3 per cent of the loss of the rolled or harrowed down, making a

supplied with moisture, and leaves, and will vary somewhat with run off; lessen capillary rise and Farms. of our growing season just begun it quirements of different plants. The courage deep rooting and make the

most approved methods of amount of energy used in securing. The mulch must be provided aserving this supply of moisture the water. Lifting water from promptly to be most effective, and or the use of crops throughout the depths, poor cultivation, poor fertil- the aim should be to stir the upper ity conditioned, and arid weather strata which is to form the mulch so . here today with another lot of The efficiency of soil water may elements all have some effect on the that it will dry out rapidly, and it will then interupt upward capillar!of this water. To increase the ef- the greatest waste of soil moisture, which is most effective is one that ply of water during our growing derstood and controlled. Evaporacrumbs from the size of a pea to the
period, requires a careful considers—tion consists in the absorption of wation of the reasons for the loss of ter in the form of vapor by the air.

cultivation throughout its entire

is the best lot of dairy cattle water, and of the means for main- The capacity of the air for vapor de- depth. To provide such a mulch it pends on temperature percentage is necessary to cultivate when the A greater average moisture con- saturation of the air, wind move- soil is yet moist enough to hold totent may be maintained (1) by di- ment and other atmospheric condi- gether in small lumps. In cultivataddition of water in irrigation; tions. Evaporation from a water ing, the soil should be turned, but by increasing the water capaci- surface is a good indicator of the not pulverized to a dust. The time (3) by checking the losses of mean effect of all weather conditions to cultivate must be modified for preciation and my most heart felt upon evaporation of soil moisture, each particular soil, but in general thanks Omitting the first method, the wa- Measurement of evaporation is as level cultivation every twelve or City of Redmond for the great kindcapacity of soil may be increas- important as measurement of rain- fifteen days to a depth of 2 or 3 in- ness they showed to me and mine in changing the texture and fall. The annual evaporation here ches gives the most effective and the last illness and death of my dear Any treatment such as from a water surface is something economical kind of a mulch. Culti- wife. To every one that in any way liming or tillage which will increase like four feet. We find by experi-vation must be most frequent early contributed to our help and relief I the mellowness of the soil and in- ment that wind movement has more in the season and should always be wish ot express my personal gratimore pore space, makes it effect on evaporation than tempera- given after heavy rains to prevent tude, and to pray that He who for the soil to absorb more ture and humidity combined. The crusting. The depth of cultivation watches over us will abundantly mean increase in evaporation per should be varied slightly, and a bless you for your kindness to the only way of modifying the mile wind movement was found to sandy soil that is naturally mulched stranger that is within your gates. of soil is to increase the or- be 1 per cent, and a 3-foot wind- will lose more moisture if the mulch Very sincerely and gratefully ganic matter content as the percent- break saved 21 per cent of the loss is fined or inverted so as to expose yours,

riments conducted by the writer it oration from a soil surface depends. In places where the grain was put

storing water in the soil tank. If we down. Alfalfa fields go through the this should be much less for cultiva- water-free surface. Use of furrows valuable mulch. Early spring plowing and plowing for fallow should cultivated surface will prevent per- Mulching is at present the most be harrowed promptly after plowing colation of spring rains over the sur- practical means of checking evapor- and after heavy rains to kill weeds

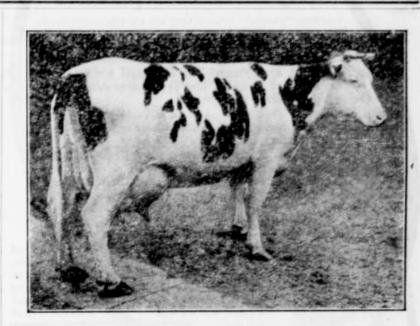
Supt. Crook Co. Demonstration

BRINGING IN MORE GOOD GRADE DAIRY COWS

C. P. Judge has posters out announcing that he will arrive good dairy cows, calves and bulls and have the same on sale at the railroad stockyard and at Albert Johnson's, one mile north of the depot. Mr.

CARD OF THANKS

W.- L. SIMPSON



### NOTICE

I will arrive in Redmond on or before June 13th with two car loads of High Grade Dairy Cows. Holstiens, Big Jerseys, Red Durham and Ayrshires. All For Sale.

C. P. JUDGE

Oregon Hotel Office.

### UNION PICNIC JULY FOURTH

CHURCH FORCES TO UNITE IN CELEBRATION ON OUR NATAL DAY

cieties and Sunday Schools in Crook formed, and the ground received a county are combining their forces in thorough soaking. a big picnic to be given on the 4th So far this season the rain fall

by the Crook County Christian En- farm products. deavor Union at a meeting held in Metolius last February. The executive committee of the Endeavor Union has charge of all arrange-

The purpose of the gathering is mutual acquaintance and a good The railroads have given a special rate of one and one-third fare, and a special train will prob- \$75 a week is going from Redmond ably be secured for the occasion.

will be permitted.

well as games of various kinds, and the meat line. a Fourth of July oration by a prominent speaker.

Further particulars can be had by consulting the officers of the Endeavor society nearest to you.

#### DESCHUTES BAPTIST ASSN.

ing day. There will be three ses- open with a praise service. Books sions on Saturday, at 9 a. m., 2 p. for all. m. and at 8 p. m.

In addition to the delegates from the churches, Rev. Fred Parker of Portland, corresponding secretary of Wooddy, supt. of the Rocky Moun- for the ensuing six months: tain and Coast district, is also ex-

The initial sermon Friday evening will be preached by Rev. D. Loree. Organization, reports, routine business and conferences will take up most of the time Saturday morning. A sermon will be preached at 11:30. A basket lunch will be served at the church at 12:30 for the delegates and members in atendance. The af- ed in office the first meeting night ternoon and evening sessions of Sat- in July. urday will be given over to interesting discussions and addresses. The meetings will be open to all.

### GROUND IS SOAKED WITH HEAVY RAIN

Last Friday afternoon at about 4 o'clock the heaviest rain storm of the season visited this section, and continued well on into the evening. Some hail fell during the storm, but not enough to do any serious damage to growing crops.

The rain was driven from the direction of the west, and the fall of water was so great that nearly all of the roofs on store buildings in Church members, members of the the city leaked. In different parts various Christian young people's so- of the city miniature lakes were

of July at the Warmspring Indian has been greater than in a number Agency at a point near Mecca. of years, and the assurance of a big The unique event was instituted crop is now certain in all kinds of

#### BEND TO CELEBRATE

Bend is going to have a three-day It has sent out invitations 4th of July celebration, Thursday, to every church organization in the county, regardless of creed or de-attractions have been secured for nomination, to take part in this big the event to keep things moving all during the three days.

#### F GOOD MEAT, RIGHT PRICES

At a low estimate from \$60 to to the meat markets at Sisters and Everyone who comes is requested Prineville, sent by people here who to bring their own luncheon. Pro- desire satisfactory meat and reasonvision has been made for convey- able prices. Frank Zumwalt has ance from the station to the picnic built up a good trade in his Sisters grounds. No fireworks of any kind meat market from the people here. This he has done by giving satisfac-An elaborate program is being ar- tory service and reasonable prices. ranged by a special committee, in- Read his ad on page 3 of this iscluding music by a brass band, as sue, and let him fill your wants in

#### OPENING SERVICES

The Baptists will open their new meeting house next Sunday, June 16 with appropriate services. The sermon will be preached at 11 a. m. by Rev. Fred Parker of Portland. Rev. The first annual meeting of the H. B. Foskett will preach at 8 p. m. Deschutes Baptist Association will All citizens not engaged in worship be held in Redmond this week be- elsewhere are most cordially invited ginning Friday evening at 8 o'clock, to attend. Bright inspiring musical and continuing through the follow- services. The evening meeting will

#### K. P'S ELECT OFFICERS

At the regular meeting of the lothe Oregon Baptist State Conven- cal K. P. lodge held Monday night tion, will be present, and Dr. C. A. the following officers were elected

C. C .- Ashley Forrest, V. C .- B. A. Kendall. Prelate—W. S. Rodman. M. of W.—J. R. Roberts. M. of E .- W. E. Young. M. of F.-R. K. Olson. M. of A .- I. A. Buckley. I. G .- Geo. Kohl. O. G .- B. F. Hensley.

The above officers will be install-

Spokesman Classified ads bring results-try them-don't cost much

### PIONEER DEPT. STORE

### Bargain Opportunities Never Greater Than Now

The doings at this store during the month of June will be full of interest to you. There are many needs for summer that by buying now will save you lots of money.

# CLOTHING DEPT.

We are going to make a big clean up in this department, and in order to do so have lost the regular prices, but we have made new prices that have no regard for the regular prices.

### Come in and you'll be Convinced

NEXT WEEK SPECIAL

1 lb. can Royal Club Coffee, 38c

Dry Apricots, 121/2c lb.

## EHRET BROTHERS

In the Brick Building

We buy Butter and Eggs

Non-Rustable Royal Worcester Corset