

# GRAZING CAN BE IMPROVED

## PLANTS TO BE GIVEN A CHANCE

Closing of Range to Cattle and Sheep Not Necessary to Build It up—Improved Grazing is Plan of Department of Agriculture.

That a serious decline in the carrying capacity of vast areas of Western grazing lands, due largely to the fact that stockmen fail to give the range plants a chance to keep growing, can be remedied without closing these areas to cattle and sheep, is the statement made by the Department of Agriculture in a bulletin recently issued on range improvement. Excessive grazing in the spring before the forage crop is mature, and such grazing continued year after year, says the department, are the main causes of range deterioration.

On the national forests, the department points out, where the government is doing away with these evils and stock is handled under government regulations, the range lands have improved to a point where it is again possible to market large numbers of beef and mutton animals directly from the range.

In the "free for all" period of early days, the department goes on to say, the most palatable forage plants were so closely cropped that they were unable to develop the necessary plant food, and so literally starved. In addition, the roots were frequently injured by trampling or killed by exposure. As a result the best kinds of vegetation grew weaker from season to season, and where the practice of early and close grazing was continued, the range at last became practically denuded.

The vegetation which furnishes the grazing crop has much the same growth requirements as a farm crop. No farmer who hopes to realize the best returns from a permanent hay meadow, it is stated, would think of harvesting the crop as soon as it is fall enough to cut, regardless of whether or not it is mature. Nor would he graze a permanent pasture closely from the time the growth begins until it ceases, for he knows that this will result finally in killing it out. And since climate and soil conditions over much of the Western grazing lands are less favorable to plant growth than those on the average farm, even greater care must be exercised in utilizing the range crop than is necessary with that on the farm.

The remedy suggested for range deterioration is a system of deferred grazing. Under such a plan an overgrazed portion of the range, sufficiently large to supply the forage from the time of seed maturity until the end of the grazing season, is protected from stock until the seed crop has matured. Upon maturity of the seed the forage is grazed during the first season but not to the extent of injuring seed plants. The same area is protected in the same way during the second and, if necessary, subsequent seasons, or until the new plants have been securely established. When the area has been thoroughly reseeded it can be again grazed early in the season, and a second area, large enough to accommodate the stock from the time of seed ripening to the end of the season, is protected until the forage is matured.

By this method of alternating late grazing from one area to another, weakened vegetation can recover its vitality without the need of having the land closed to grazing the entire year.

### CHURCH NOTICES

**Union.**  
(Northeast of Bend February 15)  
First Church—Meeting at Richardson school house, Sunday school at 11 a. m., preaching service at 12.  
Second Church—Meeting at the Grange Hall, Sunday school at 2 p. m.  
Third Church—Meeting at Arnold school house, Sunday school at 2 p. m., preaching service at 3 p. m. No collection. Enos Wigmore, pastor.

**Catholic.**  
There will be regular services at 10:30 o'clock next Sunday.

**Church of the Brethren.**  
No services next Sunday on account of sickness. Ira H. Fox, minister.

**Methodist.**  
Services for baptism and reception of new members will be held both morning and evening Sunday. The hour is 11 a. m. and 7:30 p. m. Addresses at both services by the pastor. There will be special music. Sunday school at 10 a. m. Special Classes for young men and ladies. Epworth League at 6:30 p. m. Regular prayer meeting Thursday at 7:30 p. m. Choir practice at 8 p. m. on Friday. Rev. E. C. Newham, pastor.

### SCHOOL NOTES

On Saturday evening the High School students gave a very interesting program in Sather's hall, in honor of the parents. The teachers of the public school also attended and contributed their hearty support to the amusements. The program was as follows:

Violin solo, Robert Innes, Ruth Caldwell, accompanist.

Essay, "A Puzzling Problem," by Lloyd Kelley.

Duet, "When the Dew is on the Roses," by Margaret Thompson and Genevieve Gerrish.

Essay, "A Woman's Work, or the Cost of One Day's Menu," by Ruth Caldwell.

Chorus by girls of the High School, "Hark the Lily Bells Are Ringing."

Play, "King Lear." (No costumes or scenery were used). Those having parts were: Hugh Thompson, Hazel Thorson, Fay Deardorff, Ruth Caldwell, Robert Innes, Arthur Vandevent, Leroy Fox, Lloyd Kelley.

Next was a chorus by the boys, who sang "Casey Jones."

Refreshments were served after the program and keen sides were chosen and games started in which the parents showed the younger folks how to play. The gathering broke up about 10:30, with everyone much pleased.

Last Friday afternoon Miss Heyburn gave a reading to the students of the High School.

County Superintendent Meyers addressed the seventh and eighth grade and High School students Monday morning and spent Monday and Tuesday visiting at the school.

### EMBLEM CLUB DINNER

Annual Meeting Held Saturday Night in Drake House.

The annual dinner of the Emblem Club was held Saturday evening, W. D. Cheney coming in from Seattle for the occasion on Friday. Mr. Cheney brought with him to be his guests at the dinner William McMoray, H. C. Oliver and W. J. Leonard of the O-W. R. & N. Co., C. H. Moore of the Pacific Telegraph & Telephone Co, Portland, and Dr. E. A. Pierce. L. M. Foss of Bend was also a guest.

The dinner was held in the Drake house which has been fitted up as a club house for the Emblem Club. The announcement some time ago by officials of the Bend Park Company that the house had been bought by a Chicago man who would make his home here was a hoax for the purpose of keeping secret the true reason for the extensive changes and repairs that have been made in the house to fit it for a club house.

### Fraternal Societies

- THE FRATERNAL BROTHERHOOD.
- Bend Lodge No. 597 meets in Sather's Hall every Thursday evening, with social on third Thursday each month. Visiting members cordially invited.
- Mrs. G. W. Shriner, Pres.
- Leroy Fox, Secretary.

### NOTICE.

In the County Court of the State of Oregon for Crook County.

In the matter of the estate of Merab E. Auderway, deceased.

Notice is hereby given that the undersigned, J. N. Hunter, was on the 20th day of January, 1914, appointed administrator of the estate of Merab E. Auderway, deceased, by the Hon. G. Springer, judge of the above entitled court. All persons having claims against the said estate are hereby notified to present same with proper vouchers to me at my office in the Sather building in Bend, Oregon, on or before six months from the date

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of the first publication of this notice. Date of first publication the 28th day of January, 1914.

J. N. HUNTER, Administrator of the estate of Merab E. Auderway, deceased. H. H. DeArmond, Attorney for Administrator. 47-51

Application for Grazing Permits. NOTICE is hereby given that all applications for permits to graze cattle, horses and sheep within the DESCHUTES NATIONAL FOREST during the season of 1914, must be filed in my office at Bend, Oregon, on or before February 20, 1914. Full information in regard to the grazing fees to be charged and blank forms to be used in making applications will be furnished upon request. 47-49 M. L. MERRITT, Supervisor.

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