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Chi A Justice Associate Justices. LISTS SUBSTRUCT SANTRECT. G. H. Merryman

y H. P. Belkusp Representatives..... (H. A. Brattain LAKETOUNTY C. M. Fanikue H. R. Heryler Commissioners ... Stock inspector. TOWN OF LAKEVIEW Harry Bailey

U S.LAND OFFICE. Fred P Cronemiller LAKEVIEW, BOARD OF TRADE Treas rer, Secretary Suance Committeman W. F. Palm W. P. Heryford H. W. Drenkel S. V. Rehart dustrial Publicity &zeck Municipal

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A. O. U. W .- LAKEVIEW LODGE NO. 111. Meets every second and fourth Thursday of each month, in Masonic Hall, Lakeview. Chas. Touningsen. W.M.: Wm Gunther, F.

DEGREE OF HONOR-LAKESHORE LODGE No. 77, D. of H., A. O. U. W., Meets first and third Thursdays of each month in Masonic Hall: Lillie Harris; C. of H.; Etta Peacock, L. of H.; Mary Post, C. of C.; Srrah Garrett

I. O. O. F.—LAKEVIEW LODGE, No. 63, I. O. O. F., meets every Saturday evening in Odd Pellows Hall, at 7:30 o'clock, from October 1 to April 1, and at 8 olclock from April 1 to September 30. A. E. Cheney, N. G.; E. F. Cheney, Secr. tary

I. O. O. F .- LAREVIEW ENCAMPMENT NO. 1 O.F. meets the Sret and cold finds mo and Odd Fell was to the first C.P., A. H.

REBEKAH Office LAKEVIZW LODGE NO 22, I O.O.F., herets the scond and fourth for systematic model Fellows find Mrs. His large of the Mills Mrs. His large of the Mills Teacher of t

FIRST SATTIST COM BOIL OF LAKENEW --Encoding seri - util - Stand Torrest Stand was an entire serial feet of

CATHOLI CHURCH INVERS SUNDAY MASS fafter Benediction. Work fay March

affelid by services of HOWARD, Pastor.

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Attorney at Law Cffiec in Daly Building

### DEFICIAL DIRECTORY PORTON Home Course Modern Agric Mure

IV .- Water In Its Relation to Plant Growth

By C. V. GREGORY,

Agricultural Division, leten State College Copyright, 1985, by American Press to

only one of its minor uses. nowever. In addition to the water ing the early part of the season has which is decomposed by the plant and kept the plants from sending their used in making starch and other prod | roots down very deep. When deucts, many times as much is used for weather does come, the soil balow and other purposes. One of the principal stracks and evaporation goes on ver-Geo. H. Nolard of these is dissolving plant food and rapidly. This, together with the D. V. Kukkendal. Enrylog it upward to the leaves. Aft. Enauls made by the plants, lowers of these is dissolving plant food and rapidly. This, teacher with the continuous er reaching the leaves most of the war water table so rapidly that root grow ter is evaporated, leaving in the leaf reils the materials which it brought the capillary moisture within reach ;

mmmmmm

made are very delicate and depend for its seriously checked. their stiffness on the water which they Without this water they would collapse in the same way a bicycle tire does when the air is let out. This is the very thing that happens when the leaves wilt. The rise of water from the roots has been checked in some way, and as evaporation still continues the leaf cells become partly .Co inclined emptled and shrink up.

The leaves are not entirely belpless at such a time, however. On each side of the tiny pores on the underside of the leaf is a cell known as a guard cell. When the supply of moisture begins to fail, these guard cells shrink up and in doing so close the openings. W.H. SHIRK | thus checking evaporation. In some plants, like corn, the leaves curl up at such a time, thus still further lessening the rate of evaporation. Of course when a leaf is wilted in this manner the work of building up plant tissues. is seriously checked. This often happens during the dry weather of July and August, when the soil becomes so dry that the roots have difficulty in obtaining the needed moisture. The checking of development which results often reduces the yield of corn as much as twenty to thirty bushels per acre and that of other crops in proportion. For every pound of dry matter in a mature plant from 300 to 500 pounds of water have been brought up by the roots and evaporated from the leaves. One of the most important factors in the production of a maximum crop is the maintenance of a plentiful water supply within easy reach of the roots.

There are three classes of water in water and is that water which col-

If a sample of soil that thems per | and h | - - - - - - - in third. feetly dry is placed in an array and I have a more of an arthur will be sent for some time it will be a mad in it is some in a real or are a tro-CH R.H DIRECTORY This is the third offers of hydrococylin Salaras, com.

There is a Live of Salara grand water. This is rolled to the Party Meet a Live water 700 h m age in the upper two or times for cracks from 1 and 1 During it min the promis-



ble; the mound water, I the grained soft becomes saturated, however, so that the water is no longer moving. the air soon becomes used up, and the crop will turn yellow and cease to grow. The remedy, of course, is to Lakeview, Oregon provide drains to remove the ground water quickly,

The only kind of water which the roots can use is the capillary water. When this is present in the right amount, it fills about half of the spaces between the soil particles. The the rest are filled with air. The water easily dissolves plant food from the soil grains which it surrounds. Thus the two essentials for rapid root development, air and plant food, are present in the proper amounts and in a readily available form. As fast as the water is taken up by the roots more is brought up by capillarity from the supply in the subsoff in the man-

ner noted in article No. 2. The place where the empiliary water foins the ground water is called the water table if this water table is too high, the feeding ground of the racts is greatly restricted since they cannot go below it. If on the other cannot go below it. If on the cannot go below it is go below it. If on the other cannot go below it. If on the cannot go below it is setting the cannot go below it. If on the cannot go below it is setting the cannot go below it. If on the cannot go below it is setting the cannot go below it. If on the cannot go below it is setting the cannot go below it. If on the cannot go below it is setting the cannot go below it. If on the cannot go below it is setting the cannot go below it. If on the The place where the capillary water just that mu h. cannot go below it. If, on the other hand, the water table is too deep, capillarity cannot bring the water up

as fust as it is used by the roots In dry weather the water table lowers napidly, but the roots are also growing downward at the same time. LEKEALEW OREGON | The greatest damage from drought

E have already learned some | terral across servers and the contract of the co thing of the value of water | Somes when a sudden dry period fol as a plant food. This is leves a few weeks of excessive rate full. The abundance of moisture dur cannot keep page with it. As a real the roots is not replaced as fast as it The cells of which the leaves are is used and the growth of the plants

> Pickis with a clay subsell withstread dry weather much better than those with a subsoil of saud or gravel. The latter, because of their looser texture.



FIG. IX-COVERING THE TILE DITCH. allow the water to filter down out of reach instead of retaining it for future use, as do the clay solls,

The farmer cannot influence the amount of rainfall, of course. After the rain has fallen, however, it belongs to him to do with as he sees fit. The way he handles it from this time Oregon. on determines to a large extent the fall comes.

The first problem is to get rid of the surplus ground water quickly, and the second is to waste as little of the capillary water as possible. An endeavor should be made to lower the water table to three or four feet below the the soil. The first is known as ground surface as soon as possible after each rain. If this can be accomplished in lects in a hole dug in a wet soil or two or three days the growth of the runs off through the tile in drained crop will be interfered with very litland. The second is the capillary tie. A few soils are so well drained water and is that which is left be- naturally that little artificial drainage tween the soll particles after the is necessary. On almost any farm ground water has been drawn off. there are titles and ridges where the finition, while the capillary water is how we be more these capalloon how-

ground tenter. This is routly a dame many femaleses from would on better price, through for a period of not less age in the upper two or three fact of. The extra cost of digital the distant han thirty days prior to the date soil since if so fits the cases that tool dreper is something of an older last terein mentioned. rion, but is induced by the fact that

than that of not positing the disease in To I deel Me disease elsevis its that of users too small mayord defendant. tale. The consister of the soll, the fall was are hereby required to appear and and the amount of surface drained are moved the complaint filed against the proper size to us. Mile of every book or bullerin of the decimage atom Ditties for figuring the size of the recurred under various conditions. If Fig. 3101 -flow from 1. Carles AFFIRT that there is any doubt it affice, a pure to get a size too large rather than a size too small, even if the cost is a little

> It is usually better to let the job of tiling to a contractor rather than to at tempt to do it yourself. There are reliable tilers in almost every locality who can be depended upon to lay the tile to grade and do a first class job in every particular. Only the hard burned tile should be used. These will last for a lifetime or longer if properly put

> in. When tile go within fifteen or twenty feet of trees the joints should be cemented. Otherwise the tree roots will find their way through the joints and fill up the drains to such an extent that the flow of water will be cut off.

The most important part of a drain age system is the outlet. The tile should empty into a stream if possible. Water should not be allowed to stand over the mouth of the othiet if it can ne avoided as this checas the curren and cau . . . . drain to partly fill up. with slit, the reducing its capacity

numb deever in a tiled agreet 1 . MERCHANIS or two farm' a . ' we the

All Cameras Point to Atrica. The lion and the elephant.

The languid erocodile.

The sulky hippopotamus.

I'm naming you the pictures

J. W. ISENHART

be prepared to take orders to

and careful attention



of Oregon, for the County of Multo-In the matter of the estate of Alon

unknown if any there be. in the name of the State of Oregon. You and each of you are hereby com-October 1909, at the hour of nine o'clock A. M. of said day, to show cause if any exists, why an order of sale should not be granted for the sale

size of the crop be will harvest when said Court affixed this 2nd. day of

Attorney's for Administratrix.

NOTICE FOR PUBLICATION.

Ong 30th, 1909 spalication to select under the pro-tistors of Act of Congress of Aug.

surrout, should the theread day's triblest in this office Ag or before the third they are the triblest and the contributions.

VECTOR W CHITCH Register. The foregoing morrow will be pub-ARTHUR W. ORTON, Register.

In the Circuit Court of the State of Best Ragan Placettil ve. Just Mattut Inch. Defende at

In the name of the State of Gregori

the factors which hereon determine you in the above entitled court and cause on or before Friday the 29th day of October, 1909, and if you fail to answer for want thereof, the plaintiff will take judgment against you for the sum demanded in his complaint, to wit; For one hundred dollars and interest thereon at the rate of six per centum per annum from the 16th day of April, 1908, and for his costs and disbursements herein.

Lake County Examiner.

16th day of September, 1909 S16O21 W LAIR THOMPSON. Attorney for the Plaintiff.

Notice is hereby given that CHARLES S. PALMERLEE, of Vistillis. Oregon, who, on Oct. 10th, 1902, ong also hel a to solve the to make Final Five YearProof, to establink of wa er. The roots lish claim to the land above describare in perion to with
lish claim to the land above describtion of the land above describtion o aght better than if they gon, on the 8th day of October, 1909.

by the soil in the spring.

Chandler, all of Lakeview, Oregon.

A28 ARTHUR W. ORTON Register.

The sebra and the tall straffe,

The incomed and the gru, The purcher and the python snake, The little lacked, tec-

le this a circus catalogue? In this month's magazines.

Newark Evening News.

#### Lakeview Dairy

furnish daily

Pure Milk and Cream.

Orders left at Abistrom Bros will receive prompt



In the County Court of the State

zo A. Merrili, decensed. CITATION.

To Mabel Nye and C. Nye ber hus band and Bertha O. Merrill a minor. and Alice M. Merrill widow, sole helis at law of the estate of Alonzo A. Merrill, deceased, and to all others

manded to appear before the Honorable County Court, of the State of Oregon, in and for the County of Multomah, at the Court House in the City of Portland, on the 18th day of of the Southeast quarter of Section thirty in Township twenty three South of range Thirteen East of the Willamette Meridian, in Lake County

Witness my band and the seal of September, 1909

(County Court) F. S. FIELDS, al Clerk County Court. By C. C. ROSE, Deputy. GRAHAM & CLEETON.

states Land Office Lakeview Oregon.

Notice is hereby given that the State if Oregon has filed in this office its (\$48, and the acts supplemental

Indo I in the Lake County Examiner, a weekly newspaper printed in Lake. han thirty days prior to the date

SUMMONS

To Joel McCullough, the above

This summons is served on you by publication thereof in

a newspaper of general circulation published in Lake County, Oregon, for a term of six consecutive and successive weeks, by order of the Hon. George Noland, judge of the Circuit Court of the state of Oregon for Lake County, made on the 11th day of September, 1909, and the date of the first publication hereof is the

NOTICE FOR PUBLICATION. Department of the Interior, U. S. Land Office at Lakeview, Oregon, Aug. 19th, 1909.

Claimant names as witnesses: Gil

Mesadmes SANFORD & RUSON.



S. F. AHLSTROM

Proprietor

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Also a complete line o wagong and "buggy harness, whips, robes, bits, riates, spurs, quirts, rose ttes,' n fact everything in the ilin of carriage and

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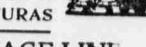
P. E. Taylor, Prop.

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a. m., arrives at Lakeview at 9 p. m Passenger fare \$3 one way or \$5 for

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ter leaving Alturas. Freight - Matters - Given Strict - Attention . . . . .

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