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\$1.50 PER YEAR

FOR IRRIGATION

Supt. Powers Gives Talk No. 2 second. formation Given

valuable as the land to which it deep on the land. conomical use of water. If every derstood. irrigator would install a measuring. The discharge of a stream is al- seven times the area of the notch, to go to one side. device in his head ditch and learn ways the product of the mean veloc- The distance from the crest to the

Units of Measurement

uring water are (1) the second foot; orfice or weir. (2) the miner's inch; and (3) the

The greater part of the land in ir- water which will flow through a one which is named for an Italian engi- and found that under like conditions rigated sections would be practically inch orfice under a 6 inch pressure. neer who perfected it, is about the the same depth always produces the worthless without water with which It is an arbitrary unit for measuring most accurate and is becoming most same discharge over a given sized to irrigate it, yet we give far less at- water by its flow through a prescrib- generally used in the west. This weir. The amount of water passing tention to water measurement than ed orfice. The spillback is a com- weir is trapezoidal in shape with through each second depends on the to land measurement. Land in this mon arrangement for maintaining a straight bottom and with sides hav- area and the gravity head, also the section without water may be secur- constant head above the opening. In ing a run of 1 to 4 of rise. A one side slope, location of weir, contracat from \$2 to \$10 per acre while Oregon 40 miner's inches are legally foot trapezoidal weir has a crest tion and cohesion. All of these are the water coats the settler from \$25 equivalent to a second foot. Fifty width of one foot and is 16 inches represented in the formula which to \$60 per acre. No one would miner's inches with a 4-inch head is wide 8 inches above the crest. The has been evolved and which is: think of buying a farm without hav- approximtaely one second foot. The crest and sides should be sharp on Quantity-3.367 x the length in ing its boundaries located by a com- term is borrowed from the miners the upstream side and the water feet x the height in feet 2. petent engineer, yet most irrigators and is not a definite, satisfactory should have free spillway. For exaccept the water given them without unit. One half miner's inch per perimental work the crest is made imals of a foot is cubed, and the question, though it is several times acre for 100 days equals 1.98 feet of sheet metal to secure great accur- square root then obtained after

water in order to provide the foot in depth, being 43,560 cubic ft. per cent. each particular field and crop in or- The depth in acre inches and num- enough in proportion to the notch the above formula. der to determine the water require- ber of irrigations correspond to in- to eliminate friction and excess vement of different crops and the most ches rainfall and can be readily un- locity of approach. This requires a

could tell when he was getting the sectional area in square feet, and possible depth of water flowing over velocity. amount of water due him, there this gives the quantity in cubic feet the crest, and the distance from

Weirs and Weir Measurements

The most accurate, practical and ing over it. ter and is equivalent to a cubic foot devised is the weir measurement, ches per second. The hook gage or for Irrigating-Valuable In. acre approximately two feet deep, are several forms of wells and con- and just ready to break over. The second foot also equals 7 1/2 gal- ditions governing their location are lons per second, or 450 gallons per the same, the only difference being ticle to go into details regarding A Miner's inch in Oregon is defin- used in computing the discharge, involved in the use of the weir. Ened by law as being the amount of The Cippoletti or trapezoidal weir, gineers have experimented for years

acy. is applied. He should have a work- The acre foot simply means water carefully this weir will measure wa- in feet and then by the constant, ing knowledge of the measurement enough to cover uniformly 1 acre 1 ter with an error of less than one 3.367.

would be less contention in irrigat- per second discharged. The velocity crest to bottom should be three must be obtained by use of floats, times the depth of water that may with a current meter, or by formula flow over. The weir plate must set The principal units used in meas- used in connection with a standard plumb, and the crest level and the length of the crest should be at least three times the depth of water flow-The second foot is the best unit economical method of measurement given there will be no appreciable for the measurement of flowing wa- of moderate amounts of water yet velocity of approach, not over 6 inof water passing a given point each The weir is a thin notch of definite peg for measuring depth should be The second foot then de- shape which the water is caused to located at least three feet up stream livers 60 cubic feet per minute, or flow over. The amount of flow de- from the crest to avoid draw down, to the Farmers in Regard to 3600 cubic feet per hour, or 86400 pends on the length of crest or bot- and should read zero or set flush Measuring Water They Use cubic feet in a day of approximately tom of the notch and the depth of with the water surface when the

It is not possible in this short arin the shape of notch and formula principles and higher mathematics

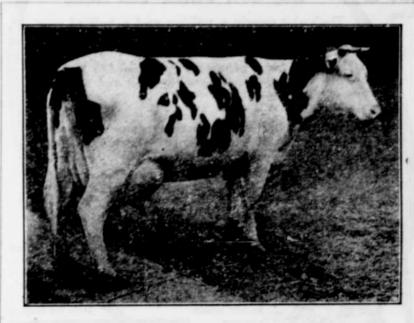
When all conditions are met which it is multiplied by the length

In order to save calculations a right capacity of pump or proper Three acre feet is approximately 1 .- In order to prevent leakage under welr table is usually employed which also of lateral for the acreage in 000,000 gallons. The acre foot is or around the weir and add stabil- gives the discharge for all possible The irrigator should convenient for defining large quantity the weir is often provided with a depths and various lengths, the how much water is used on titles of standing water in reservoirs weir box, and this must be large values having been computed from

> Avoid setting a weir just below a box with a cross section of at least curve in a ditch as it causes water

Do not set a weir close to or just to measure water accurately so he ity in feet per second times the cross sides should be twice as great as any below a headgate where is a high

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DAIRY COWS AND BULLS FOR SALE

Hoistiens, Ayrshires, Red Durhams and Big Jerseys, all government tested.

Also one Registered Jersey Bull, two grade Holstien Bulls. See ALBERT JOHNSON at the Redmond Ranch, a fourth mile north of the Redmond de-pot.

C. P. JUDGE

Oregon Hotel Office.

SHOW PEOPLE REDMOND WAS INVEST HERE MECCA FOR ALL

This Part of Central Oregon People From All Parts of Crook Appealed to Some of the Wild West Officials and They Will Return Later and Invest In Property

County Came Here Last Week to Attend the Wild West Shows-Big Crowd Is Well Taken Care Of

The Redmond District looked so

the 101 Ranch Wild West, stated to tremely well pleased with the large The Spokesman that we had the gar- crowd, and stated that their faith in den spot of Oregon right here, and Redmond was well founded. that this fall he was going to make People began arriving in the city a trip back here and buy a chunk of the day before the show. Many

could raise on it was his hat. He houses. has a 22-acre chicken ranch in Flor-

Other members of the executive no arrests. staff of the show talked along the Ample preparations has been taksame line as Mr. Dowd, and said en to house and feed the visitors and they wanted to put some of their all were well cared for money in our gold dollar producing,

FELL OFF TRAIN

Frank Carr, an engine tender in the afternoon performance the next day. employ of the O-W. R. & N. R. R., To some of the people, those who who had been up to Redmond with had seen the real wild west on the one of the engines pulling the Wild plains, the show seemed tame, but it West special, fell off the rear end of compared favorably with Buffalo the caboose of the second section of Bill's Wild West, and the majority the show train at Opal City about of the people were satisfied. 3 o'clock this morning. He was One point has been established, badly bruised about the head and and that is: That Redmond is the body, but managed to crawl to the best circus town in Central Oregon, Hotel Opal where he remained until and in the future this city will be the morning passenger came along included in the route of circuses when he was picked up and taken to when laying out their Oregon schedthe hospital at The Dalles.

CAN GET YEAR BOOK

Agricultural Year Book, a bound be dedicated on Sunday, June 30th, volume of several hundred pages, with appropriate services. Dr. C. containing much interesting and in- A. Wooddy, superintendent of misstructive information regarding agriculture, horticulture, stock raising, Rocky Mountain district, will be etc. Each senator and representa- present and preach the sermon of tive has copies of this Year Book dedication. Rev. Fred Parker of for distribution, and any farmer can full program will be given next secure a copy by sending to one of week. the members of the Oregon delega-

Nearly 3000 paid admissions to good to some of the officials of the the 101 Ranch Wild West that was Wild West show that was here last here last Thursday proved that Redweek that they will return later and mond was a good circus town-that it was the logical center of Central Owen Dowd, assistant manager of Oregon. The show people were ex-

came in wagons and camped on the He said he had some land in N. outskirts of the city, while others Y. state, near Syracuse, that all he put up at the hotels and lodging

And it was an orderly crowd, too. ida that eats up money, and he is Although a number of special police next going to invest in some of the were on duty there was little for irrigated land around here to see if them to do. Chief of Police McClay can't even up on the losses on his stated that drunken and disorderly men were very few, and there were

Owing to the lateness of the show trains reaching the city, all of the performance could not be given, as the show had to pack up and leave here as early as possible in order to Terrebonne Oregonian, June 14: reach Pendleton in time to give an

WILL DEDICATE CHURCH

The department of agriculture at Washington has just issued its 1911 opened for services last Sunday will sions for the Pacific Coast and

The Spokesman for good printing

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

Diamond C Laundry Soap, 7 bars 25c

Corn Starch, lb. 6c

EHRET BROTHERS

In the Brick Building

We buy Butter and Eggs

Non-Rustable Royal Worcester Corset