

The Slogan Pages Are Yours; Aid in Making Them Helpful to Your Wonderful City and Section

SALEM DISTRICT INDUSTRIES

:-:- Ninth Consecutive Year :-:-

THE STATESMAN dedicates several pages each week in the interest of the fifty-two to a hundred basic industries of the Salem District. Letters and articles from people with vision are solicited. This is your section. Help make Salem grow.

OREGON HAS ONE EIGHTH OF THE WATER POWERS OF UNITED STATES

Two Thirds of the Water Powers of the United States in the Pacific Area—Our Water Supply Permanent as the Revolution of the Earth. Certain as the Sun—Water the Most Important Physical Need—Great Developments Needed Here.

OREGON HAS ONE EIGHTH... that beautiful sapphire gem set deep in the grip of a tremendous volcanic crater, is part of Oregon's water resources. Even the marble caves of Josephine county were carved into their fantastic forms by water trickling through the rocks. Water is the most important physical need.

The Water Cycle The water of the earth passes through a certain natural cycle. Beginning in the oceans it is evaporated into the atmosphere where it is conveyed by the winds over the land areas. From the atmosphere it is precipitated in the form of rain, dew, frost or snow upon the earth through which it percolates or from which it flows in streams on its return to the ocean.

I make the venture, however, because there are many elements of common interest in the origin and occurrence of our water supplies and because few observe these from the scientific viewpoint. That scientific viewpoint is being applied more frequently to the problems of life.

The major phases of this water cycle which present the problems in the development of water resources are those of rainfall and run-off. Rainfall is produced in various ways; down in California they have in recent times hired a man to produce rain by incantations from the top of a tower.

Water Greatest Need If complementary things can be superlatively compared, these water resources are the greatest single permanent resources endowed by nature. Upon their occurrence, the development of rivers and harbors, the irrigation of arid lands, the improvement of wet and swamp lands, the supply of cities for untold industries and the health and happiness of power.

Certain As the Sun These southwesterlies prevail throughout the winter months and are given direction by two factors, (1) the temperature gradient between the equator and the poles which is produced by the sun, and (2) the rotation of the earth. Since our water resources are brought to us upon these winds we may truly say they are as permanent as the revolution of the earth and as certain as the sun.

THIS WEEK'S SLOGAN

DID YOU KNOW That water is running idle down the defiles of the Cascades and the Coast Range within easy distance of Salem (within an average of less than 50 miles) affording cheaply developed hydro-electric projects that would aggregate more than 250,000 horsepower; that within a radius of 100 miles, and with power lines no longer than some lines in use in California, perhaps over four million horsepower; that Salem may absolutely assure her steady growth by the development of the first named 250,000 and over horsepower for use here in industries; that she may become a city of half million population by developing and using the powers within a radius of 100 miles, and that it would be a splendid and sound move for this city, as a city, or as individuals organized into companies, to undertake water power development here on an ambitious scale, and to do it now?

Dates of Slogans in Oregon Statesman

- (With a few possible changes) Loganberries, October 6, 1927 Prunes, October 13 Dairying, October 20 Flax, October 27 Filberts, November 3 Strawberries, November 17 Apples, Pigs, etc., Nov. 24 Raspberries, December 1 Mint, December 8 Beans, etc., December 15 Blackberries, December 22 Cherries, December 29 Pears, January 5, 1928 Gooseberries, January 12 Corn, January 19 Celery, January 28 Spinach, etc., February 5 Onions, etc., February 12 Potatoes, etc., February 19 Bees, February 26 Poultry and Pet Stock, Mar. 4 City Beautiful, etc., Mar. 11 Great Cows, March 18 Paved Highways, March 25 Head Lettuce, April 1 Silos, etc., April 8 Legumes, April 15 Asparagus, etc., April 22

months he can predict bright and clear with a remarkable degree of accuracy. He is, however, handicapped by a paucity of outposts from which to glean variable conditions.

The study of the distribution of this rainfall is essential in problems of irrigation, drainage, flood control, power development and water supply. Many a project has been handicapped by lack of sufficient rainfall data. There are certain general characteristics of the Pacific coast rainfall which are explained by the prevailing character of the southwesterlies.

The variations from the yearly average rainfall are less than in other sections of North America, the variations in the rates of rainfall in particular storms are less and in all respects the phenomena are more regular and uniform.

Great Developments The study of the natural continuity of run-off and its utilization and control is the province of the hydraulic engineer. The problems involved in this utilization and control have ever called for the greatest energy, resourcefulness and courage of mankind.

The prevailing character of these southwesterlies simplify the problems of our friend and weather prophet, L. L. Wells, very materially. During the winter months he can predict seasonable showers, and during the summer

"The delvers in mysterious laboratories, the mathematical gymnasts, the scholars poring over dusty tomes of knowledge are not understood by the work-a-day world, nor do they understand it. But between stands 'the man with applied science training' with keen and sympathetic appreciation of the value of the work of the one, and a ready understanding of the needs and requirements of the other; and by his power of adaptability he grasps the problems presented, takes from the investigators their abstract results, and transforms them into practical usefulness for the world."

The problems in the utilization and control of the natural run-off are varied. The problem of irrigation is to equalize the water supplied by rainfall, not only in time, but in place. The occurrence of precipitation in the Northwest is such that the high places receive and store more moisture than the plains and valleys. Irrigation is accomplished by the construction of works to bring this water onto lands that are dry during the growing season.

Two-Thirds the Power Here. Water power is produced by two factors, the rate of flow of water and the fall. These same mountains which by their upward deflection of the winds produce the rain, also provide the fall which gives the Pacific area TWO THIRDS OF THE POTENTIAL

THERE CAN BE CHEAPLY DEVELOPED A MILLION OR MORE HORSE POWER WITHIN A HUNDRED MILES OF SALEM

Probably Three Million Horsepower Within a Radius of 150 Miles of Salem, and Over Four Million Within 200 Miles—Something Like 250,000 Horsepower in Projects Already Marked Out Within 50 Miles of the Capital City.

Something like 250,000 horsepower may be had in projects already developed or marked out within 50 miles of Salem, a million within 100 miles, perhaps three million within 150 miles, and over four million within 200 miles.

Following are some of those marked out up to three years ago: Fish, Clear, Lava and Lost lakes, 45,000. North Fork of the Santiam, 600; another on same, 11,000; another 7,755; another, 10,227; another, 23,000.

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following are some powers that have been marked out: Deschutes river, 34,000. South Santiam river, 341. Salmon and White rivers, immense power, with 6,000 cubic feet per second flow. Amount of power undetermined. Marion fork North Santiam, 34,090. Permelia and Whitewater creeks, tributary to North Santiam, 22,158. North Santiam, 20,443.

The McKenzie powers coming within 100 to 150 miles of Salem are immense in possible white coal available here. The great Oak Grove plant of the Portland Electric Power Co. with 105,000 developed or developable horsepower, on the upper reaches of the Clackamas river, is about the same distance from Salem as from Portland; comes largely from the eternal snows of Mt. Jefferson, in the northeast corner of Marion county.

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THERE IS SHORTAGE OF RURAL DOCTORS

The Medical Profession Is Asked to Avert a Worse Condition

WASHINGTON, May 19—(AP)—A shortage of country doctors which farm leaders say threatens a general breakdown in rural health service has commanded the attention of medical authorities. Methods of replenishing the dwindling supply will be considered at the convention of the American Medical Association at Minneapolis in June.

In 1906 there were approximately 33,000 physicians in communities of 1,000 population or less in the United States. A survey made in 1924 showed this number reduced to 27,000. More recent investigations reveal that almost one-third of the towns of 1,000 or less which had physicians in 1914 had none in 1925.

The average age of rural doctors in 1925 was 52 years. Since the average age at death of American physicians is 62, the present generation of country doctors will practically have disappeared in another 10 years, it is asserted. Only a small percentage of the doctors graduated in the last ten years have taken up practice in rural districts.

The National Grange has appealed to the medical association to take steps to increase the number of general practitioners "whose outlay in time and money in securing their medical education will be such that their services will be within the reach of the rank and file of the people."

Officers of the Grange insist "they are not advocating any lowering of medical standards. They contend, that more practical education, costing less in time and money, is required.

EDITORIAL

SALEM'S GREAT FUTURE

Salem's great future is largely dependent upon water—The use of water for power and irrigation. Two-thirds of the water powers of the United States are in the Pacific area. Oregon has an eighth of the water powers of the country.

Our water is as "permanent as the revolution of the earth; as certain as the sun." When all the idle and slacker acres of the Willamette valley are brought to maximum potential production; when all our water powers are harnessed to the wheels of industry and all our land that needs irrigation is brought under its benefits, the Willamette valley will have ten millions of people, and what will be called Salem then will have a million of them. The population of Salem will grow steadily. This city will ere long have 50,000 people; then 100,000—

But the great growth of this city will come with the development of the potential water powers and the use of the available water for irrigation; which will mean beet sugar factories and all that they will bring indirectly; which will mean the full development of our flax and hemp and linen industries, which will support here, directly and indirectly, at least a million people.

This resource of water, this gift of God, through the laws of nature, is a value that never diminishes, never dies, never is consumed, never wears out, never is used to exhaustion, destruction or extraction—

This clean white coal running down the defiles of our Cascade and Coast Range mountains and through our peaceful and fruitful valleys; and this life bestowing gift of Providence making certain the annual growth of the crops on the land.

We have here a veritable land of diversity. We can grow here and prepare and manufacture more products commanding wide markets than can be produced and turned to commercial use in any similar extent of territory under the shining sun—

And the world needs what we have to give it. Rapid growth here is almost a moral issue. We owe it to the world; to grow and make the things the world needs. The development of our water powers cannot be overdone, if our industries on the land and in our cities and towns can be made to keep pace with it. The sky is the limit. The possibilities are worthy of the dream of an empire builder; of a group of empire builders—

And, soon or late, and the sooner the better, this development must include municipal ownership of her water system by the capital city, with a pipe line to the mountain supply and a by-product of water power for sale all the way down.

And it means still water in the Willamette, with cheap boat and barge rates, giving this great water valley connection with all the ports of the world.

TOMATO HINTS BY COLLEGE EXPERT

Fresh manure is not recommended for tomato plants, but if well rotted, it is often of great value, says A. G. Bouquet of the Oregon Agricultural college. Commercial fertilizers, such as a mixture of 300 to 400 pounds acid phosphate and 200 pounds of sulfate or muriate of potash, are often profitable. Regular cultivation of tomato plants has shown increased yields and better fruit over fields poorly cultivated.

Irrigation is usually a good practice on the light sandy soils. Lack of moisture often results in dry or blossom-end rot. It is preferable to apply water when the fruit begins to increase in size and to continue irrigation through the early stages or ripening. Running water between the rows is considered a better practice than sprinkling. It is best to avoid irrigating when the plant is first starting to produce flowers.

Cut worms are best controlled by the application of a small handful of standard bran mash poison near each plant at the time of setting out. A standard arsenate of lead dust (sold ready mixed under various trade names) is applied to repel the small black flea beetles which eat holes in the leaves and often destroy the plant.

Sympathetic Neighbor—I hear you lost your husband. It's a terrible thing. Widow—Yes, indeed. You know what you're losing but you don't know what you'll get the next time.—The Pathfinder.

WILL RESUME

The magazine plan for the Slogan pages of The Statesman is being given up, with this issue. We are going back, temporarily, to the form that has persisted for nearly nine years. The tabloid or magazine form will be resumed later, when this department will be made still stronger and more useful to the industries on the land and in the city, and more influential in helping the growth and prosperity of both city and country and surrounding towns.

SEED TESTED FOR FRENCH FARMERS

PARIS, May 19—(AP)—A scientific system of seed testing with a view to increasing France's wheat and rye crops has been initiated by the minister of agriculture, with an appropriation of \$240,000 wrung from Premier Poincare, jealous guardian of the national purse. Experience has shown that in the same field, with the same methods and same expenditure, one variety of wheat will yield from two to four bushels more per acre than another less adapted to local conditions. With this in mind, the ministry experts are carrying out a series

OIL-O-MATIC WHAT IS IT? —SEE— THEO. M. BARR Phone 192

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