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 capped by a paucity of outposts from which to glean variable con-

Two Thirds of the Water Powers of the United States in the Pacific Area-Our Water Supply Permanent as the Re-problems of irrigation, drainage, volution 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 (By H. S. Rogers, Dean of School deep in the grip of a tremendous are explained by the prevailing of Engineering, Oregon Agri- volcanic crater, is part of Ore-There are those who have marble caves of Josephine county average rainfall are less than in cultural College.)

ima, Bolse, Snake, Umatilla and forms by water trickling through Klamath valleys blossom into the rocks. Water is the most imlands of fertility and plenty; portant physical need. there are those who have barred the tides from lands which have supported the finest dairy herds through a certain natural cycle. harnessed the magnificent waters orated into the atmosphere where the Baker and other rivers; others phere it is precipitated in the form have fought the bars of our quiet, of rain, dew, frost or snow upon capacious harbors: and still others the earth through which it percohave brought the mountain waters lates or from which it flows in of the Bull Run, the Green and streams on its return to the Cedar rivers into the beautiful, ocean. thriving, healthful cities and thereby spread their fame from cycle which present the problems coast to coast

plies and because few observe man to produce rain by incantathese from the scientific view- tions from the top of a tower. point, that scientific viewpoint But the meteorologists believe is being applied more frequently that the one great underlying to the problems of life.

college is proud of its position as ments of the atmosphere which of the hydraulic engineer. The the college of APPLIED science raise air to higher levels cause the problems involved in this utiliza- another 7.755; another, 10,227; and technical professions. And expanding and cooling of the air tion and control have ever called another, 29,000. this pride is our birthright, for so that the dew point is reached for the greatest energy, resourcein the words of the late President and the moisture precipitated. fulness and courage of mankind. Whisky creek, 26.000. James of the University of Illi- Most of the rainfall of the Pacific nois, the original object of the northwest is caused by the upward include such works as the Panaland grant colleges was to turn deflection of the southwesterly ma canal, the Croton water supply out thinking laborers rather than winds which blow in from the Pa- of New York city, the Mississippi laborious thinkers. Modern civ- cific ocean and, striking the Coast river control, Mussel Shoals, the ilization in so far as it is due to and Cascade ranges, are raised Miami flood control, the Los Anthe styles into which the materials and cooled so that the air precip- geles aqueduct, the Hetch Hetchy of the earth have been fashioned itates its moisture upon the hills project of the city of San Francishas been accomplished by men of below. applied science.

Water Greatest Need

The banks of the streams of the sun.

character of the southwesterlies. gon's water resources. Even the made the desert plains of the Yak- were carved into their fantastic other sections of North America, within 50 miles of Salem, a mil-

The Water Cycle The water of the earth passes of the great west; others have Beginning in the oceans it is evapof the Klamath, the Rogue, the it is conveyed by the winds over Clackamas, the Snake, the Skagit, the land areas. From the atmos-

The major phases of this water

in the development of water re-I make the venture, however, sources are those of rainfall and cause of rainfall is the dynamic

Certain As the Sun

If complementary things can be throughout the winter months row Rock dam at Boise is the Pertland superlatively compared, these wa- and are given direction by two highest masonry dam in the Scio Mill & Elevator Co., Scio ter resources are the greatest sin- factors, (1) the temperature gra- world, the Rim Rock dam of Yak- Molalla Electric Company, Aurora gle permanent resources endowed dient between the equator and the ima, turned over to the Yakima Mountain States Power Co., Albany Mountain States Power Co., Lebanon by nature. Upon their occurrence, poles which is produced by the project manager this season, is Theo. Highberger, Aumsville the development of rivers and har- sun, and (2) the rotation of the the largest earth dam, the Skagit bors, the irrigation of arid lands, earth. Since our water resources river project of the city of Seattle Georgia C. McCor. Seattle bors, the irrigation of arid lands, earth. Since our water resources river project of the city of Seattle Georgie C. McCoy, Seattle, Wash.

the improvement of wet and are brought to us upon these is one of the largest municipal Hammond Lumber Company. Mill City. swamp lands, the supply of power winds we may truly say they are undertakings of power developfor untold industries and the as permanent as the revolution of ment. The Port of Portland un-

The Columbia River highway is er prophet, L. L. Wells, very ma- ENCE. made the most beautiful and in- terially. During the winter spiring of all highways by its months he can predict seasonable

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 pro-

jects that would aggregate more than 250,000 horse-

power; that within a radius of 100 miles about a mil-

lion horsepower could be developed, 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 develop-

ment 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 pow-

ers within a radius of 100 miles, and that it would be a

splendid and sound move for this city, as a city, or as in-

dividuals organized into companies, to undertake water

power development here on an ambitious scale, and to do

Dates of Slogans in Oregon Statesman

Grapes, Etc., April 29

Sugar Industry, May 13

Water Powers, May 20

Land, Irrigation, Etc., June 10

Hops, Cabbage, Etc., June 24 Wholesaling, Jobbing, July 1

National Advertising, Aug. 19

Grain & Grain Products, Sept. 2

Automotive Industries, Sept 23

day edition of The Daily Ore-

gon Statesman are on hand.

They are for sale at 10 cents each, mailed to any address.

Current topics 5 cents.

(Back copies of the Thurs-

Woodworking, Etc., Sept. 16

Drug Garden, May 6

irrigation, May 27

Floriculture, June 17

Cucumbers, Etc., July 8

Mining, June 3

Hogs July 15

Goats, July 22

Schools, July 29

Sheep, August 5

Seeds, August 12

Livestock, August 26

Manufacturing, Sept. 9

Paper Mills, Sept. 30

accuracy. He is, however, handi-

The study of the distribution of this rainfall is essential in sufficient rainfall data. There are certain general characteristics of the Pacific coast rainfall which

The variations from the yearly and in all respects the phenomena are more regular and uniform. The variations in the time and place of rainfall are, nevertheless, so great as to require the to another and the conveyance of water from one place to another.

that about 25 to 30 per cent of electric power. the atmospheric mosture which is condensed and precipitated upbecause there are many elements run-off. Rainfall is produced in on the land completes the entire of common interest in the origin various ways; down in California cycle, the remainder is by-passed and occurrence of our water sup- they have in recent times hired a in various ways so that it is re-

Great Developments The study of the natural continuity of run-off and its utiliza-The Oregon State Agricultural cooling of moist air. The move- tion and control is the province co; and here in our own great northwest we have a list of super-These southwesterlies prevail lative accomplishements; the Ar- Crown Willamette Paper Company,

health and happiness of cities, the earth and as certain as the der the able direction of J. H. Polhemus has built the largest Cascade, Olympic and Coast ran- The prevailing character of and finest Diessel electric dredge ges are the haven and joy of ev- these southwesterlies simplify the in the world; this project is foundery fisherman, hunter and camper. problems of our friend and weath- ed on faith in APPLIED SCI- People's West Coast Hydre. Herman Creek "The delvers in mysterious laboratories, the mathematical gymwaterways and falls. Crater Lake, showers, and during the summer nasts, the scholars poring over musty 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." It is such a training of science applied to practical usefulness that is the object of the curricula of the Oregon State Ag-

ricultural college. 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 val-Irrigation is accomplished City of Eugene. Eugene by the construction of works to Silver King Mining Company. Albany bring this water onto lands that Waldport Light Company, Waldport... are dry during the growing season Theo. Heigherger, Aumaville The Willamette valley, which receives as much annual rainfall as the states of Illinois and Ohio, experienced an acute need for sup- Municipality of Oregon City, plemental irrigation during the

last dry summer. The problem of drainage is to build works and improve natural channels to facilitate the run-off of streams, to protect lands from overflow, and to equalize floods.

Harbors are developed and im- ED STATES. They also proved by the deepening and con- wring the moisture from the trolling of channels. Water sup- winds before they pass over the plies for cities must be safe and plateaus between the Cascades and palatable, and must be located so the Rockies and make problems as to give an economic supply. This may or may not be at points where the water will flow

by gravity to a city. is l'ower Here. Water power is produced by tural development means irrigatwo factors, the rate of flow of tion and drainage, commercial dewater and the fall. These same velopment means river and harmountains which by the upward bor improvement, industrial dedeflection of the winds produce velopment means a need for hyd-

clear with a remarkable degree of THERE CAN BE CHEAPLY DEVELOPED A MILLION OR MORE HORSE POWER WITHIN A HUNDRED MILES OF SALEM mately 33,000 physicians in communities of 1,000 population or less in the United States. A sur-

has been handicapped by lack of Probably Three Million Horsepower Within a Radius of 150 recent investigations reveal that Miles of Salem, and Over Four Million Within 200 Miles-Something Like 250,000 Horsepower in Projects Already

power may be had in projects al- have been marked out: ready developed or marked out the variations in the rates of rain- lion within 100 miles, perhaps fall in particular storms are less three million within 150 miles, and over four million within 200 feet per second flow. Amount of

> And 200 miles is not a long distance at the present time for high voltage electric power lines. More than half the water pow

ers of the United States are in tiam, 22,158. the three Pacific coast states: the While the amount of rainfall largest and cheapest power proupon the lands or watershed of ject in the world is the Columbia sent 11,023 horsepower, not any particular project is of ut- river project. In California 400most importance, the contact with mile high voltage lines are not the problem in construction is uncommon; and so the great Cofound in the utilization and con- lumbia river project is within tiam river, footing up perhaps trol of the run-off. It is estimated reach of Salem for future hydro- 100,000 horsepower.

Up to four years ago there had horsepower within 50 miles of Salem. This has been increased in that time to over 250,000, count-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;

Marion lake, Puzzle Creek and

Bridal Veil Timber Co., Bridal Veil. Bridal Veil Timber Co., Bridal Veil.

untain States Power Co., Scio

R. Wheeler, Reedsport

Columbia Valley Power Co.,

Philadelphia, Penn. Columbia Valley Power Co.,

Eugene Power Company, Eugene. Hawley Pulp & Paper Company,

Oregon City Pacific Power & Light Co., Portland...

Bend Water, Light & Power Co., Bend

John Steidl and Thomas Tweet, Bend
Deschutes Power & L. Co., Bend
Oregon Iron & Steel Company, Portland

Vernonia Light & Power Co., Vernonia.

Portland Electric Power Co., Portland.

'ortland Electric Power Company,

Maupin Power Jompany, Maupin

city of McMinnville, McMinnville,

Pacific Power & Light Co., Portland. Pacific Power & Light Co., Portland.

Portland Electric Power Co., Portland.

Portland Electric Power Co., Portland.

Portland Electric Power Co., Portland Owen-Oregon Lumber Company,

Cline Falls Power Company, Portland.

of McMinnville, McMinnville,

WATER POWER OF THE UNIT-

Development in any direction

because of prevailing winds and

topography has, therefore, its vi-

tal hydraulic problem. Agricul-

Owen-Oregon Lumber Company,

Company, Portland

City of Eugene, Eugene

Palls City, Falls City City of Eugene

Oregon City

A. J. Derby

of irrigation.

the rain, also provide the fall ro-electric power, and municipal which gives the Pacific area TWO development means water supply

THIRDS OF THE POTENTIAL (Continued on page 7.)

Medford

Deschutes Power Company.

Oregon City Manufacturing Co.,

Deschutes river, 34,000. South Santiam river, 341. Salmon and White rivers, im-

Marion fork North

North Santiam, 20,443.

counting the one unestimated, and there are many later filings, on the Little North Fork of the San-

the Portland Electric Power Co. with 105,000 developed or devel oping 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.

Within 100 Miles of Salem.

Total for the above, 130,218. 100 miles from Salem, claiming In the years intervening, the 100 horsepower or more: Claimant and Address Oregon Pulp & Paper Co., Salem Stream Mill Creek and 1,804 1,875 273 483.24 Portland Electric Power Co., Portland. Silver Creek Oregon Grain Company, Turner.... Oregon State Penitentiary, Salem. Mill Creek and 218 A. D. Gardner and H. E. Bennett, Stayton L. D. Gardner, Stayton 935 North Santiam 13,636 400 South Santiam 613 Thomas Fork of Santiam Molalla River South Fk. Santiam 1.023 Santiam River and Mill Creek Luckiamute River 198 North Fork Santiam 650 Santiam River Santiam River

Willamette

Willamette

Deschutes

Tualatin

White River

Butte Creek

Tumalo Creek

Oak Spring, trib.

Links Creek

Willamette

Hood River

.. Clackamas

Clackamas

Deschutes

McKenzie

West Fork

McKenzie

Willamette

Clackamas and

of Deschutes Oak Grove Fork of

Nestucea River and

Timothy Reser.

Big Butte Creek

Henline Creek, trib.

Eckman Creek

and Mill Creek

Baker Creek Little Luckiamute

W. Fk. Hood River

Big Butte Creek and Ginger Creek 250

Little North Santiam 105

3,000

1,186

736

170

100

86,932 Sandy and Zig Zag River Bridal Veil Creek 156 over fields poorly cultivated. Bridal Veil Creek and Young's Creek 561 Eight Mile Creek Thomas Creek, trib. of Santiam River 100 Mills Creek Austin Hot Springs and Clackamas 23.864 Philadelphia, Penn. Deachutes Portland Electric Power Co., Portland... Willamette 83,524 350

1,718

421

57,272

5.807

36,818

312

1.008

795 2.180

169

6.750

887

300

22,000

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

Widow-Yes, indeed. You know

Oakland Pontiac

VICK BROS. High Street at Trade

Marked Out Within 50 Miles of the Capital City.

Something like 250,000 horse-[following are some powers that

mense power, with 6,000 cubic power, undetermined.

creeks, tributary to North San-

The above new projects repre-

The McKenzie powers coming

within 100 to 150 miles of Salem been marked out about 150,000 are immense in possible white coal available here. The great Oak Grove plant of

The files of the office of the state engineer show the following ering of medical standards. They power claims within a radius of contend, that more practical edu-

OF RURAL DOCTORS

The Medical Profession Is Asked to Avert a Worse Condition

WASHINGTON, May 19-(AP) A shortage of country doctors as certain as the sun." which farm leaders say threatens 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 Minne-

In 1906 there were approximunities of 1,000 population or vey made in 1924 showed this number reduced to 27,000. More 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 doc- lion people. ors 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. struction or extraction-Only a small percentage of the doctors graduated in the last ten vears have taken up practice in rural districts.

pealed to the medical association to take steps to increase the number of general practitioners in securing their medical education will be such that their servthe rank and file of the people." Officers of the Grange, in a pe tition to the association, say coming extinct. He is being supplemented by the specialist to degree not warranted under prac country doctors is to be replenish among the young men and women of the country districts, as was the case in former times. And only in rare instances can the son ical profession owing to the expense of his education." Officers of the Grange insis

hey are not advocating any lowcation, costing less money, is required.

COLLEGE EXPERT

Fresh manure is not recomnended 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 Irrigation is usually a good

practice on the light sandy soils Lack of moisture often results in dry or blossom-end rot. It is pref erable 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.

you lost your husband. It's a terrible thing.

what you're losing but you don't know what you'll get the next time.—The Pathfinder.

Sales and Service

Capitol Bargain and **Junk House**

105-145 Center All Kinds of Junk **Bought and Sold**

ROOT, CHITTAM BARK, PEPPERMINT OIL, ETC.

Anything from a Needle to a Steam Engine . CASH PAID FOR RAGS, BOTTLES, BARRELS, OLD PAPER, CARPETS, IRON, WOOL, PELTS, GRAPE

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 pow-

ers of the country. Our water is as "permanent as the revolution of the earth;

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 milions of people. and what will be called Salem then will have a million them. The population of Salem will grow steadily. This city mately 33,000 physicians in com- 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 mil-

This resource of water, this gift of God, through the laws of nature, is a value that never diminshes, never dies, never is consumed, never wears out, never is used to exhaustion, de-

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 Provi-The National Grange has ap- dence making certain the annual growth of the crops on the

We have here a veritable land of diversity. We can grow whose outlay in time and money here and prepare and manufacture more products commanded. ing wide markets than can be produced and turned to comices will be within the reach of mercial use in any similar extent of territory under the shin-

And the world needs what we have to give it. Rapid The family doctor is rapidly be- 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 overtical conditions. If the supply of done, 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 developof a farmer hope to enter the med- ment 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

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.

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.

FRENCH FARMERS

PARIS, May 19-(AP)-A scienific 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

Experience has shown that in he 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 o local conditions. With this in mind, the ministry

experts are carrying out a series

ties of seed most suitable to each region of France. When that has been done the results will be com municated to farmers and ar rangements will be made to mail itate the supply to them, under advantageous conditions, of the seeds most suitable to their soil

of tests to determine the varie

OIL-O-MATIC

WHAT IS IT? SEE-

THEO. M. BARR Phone 192

Oregon Pulp & Paper Co. -Manufacturers of-

BOND - LEDGER - GLASSINE

GREASEPROOF - TISSUE Support Oregon Products

Specify "Salem Made" Paper for Your Office Stationery

Larmer Transfer & Fuel Company

We handle Castle, Gate, King, Rock Spring Coal and Gasco and **Diamond Briquets**

Also coal specially designed for chicken brooder use.

TELEPHONE 930

it now?

(With a few possible changes)

Loganberries, October 6, 1927

Dairying, October 20

Strawberries, November 17

Apples, Figs, Etc., Nov. 24

Raspberries, December 1

Beans, Etc., December 15

Cherries, December 29

Pears, January 5, 1928

Gooseberries, January 12

Spinach, Etc., February 5

Potatoes, Etc., February 19

Onions, Etc., February 12

Blackberries, December 22

Prunes, October 13

Filberts, November 3

Walnuts, November 10

Flax, October 27

Mint, December 8

Corn, January 19

Celery, January 28

Head Lettuce, April 1

Asparagus, Etc., April 22

Silos, Etc., April 8

Legumes, April 15

Great Cows, March 18

Paved Highways, March 25

Bees, February 26 Poultry and Pet Stock, Mar. City Beautiful, Etc., March 11