

OREGON INDUSTRIES.
WHEAT, FLOUR,
LUMBER, TIMBER,
MANUFACTURING,
WATER POWER,
DAIRYING,
FISHING, LIVESTOCK,
MINING, COAL.



"300,000. PORTLAND. 1910."

OREGON INDUSTRIES.
WOOL, SHIPPING,
MACHINERY,
AGRICULTURE,
HORTICULTURE,
TRANSPORTATION,
PAPER MAKING
WOOD PULP

WATER POWER

(Continued from Page Two)

and irrigation was born. During the interim it has assumed proportions of such magnitude that it is doubtful if our Egyptian forbears would recognize it. It is no longer a farm adjunct; it is a creative force; a fundamental element in the world's progression. What are we doing with irrigation in Oregon?

This state has an area of nearly 62,000,000 acres, greater than the combined areas of New York, New Hampshire, Vermont, Massachusetts, Rhode Island and Delaware. On July 1, this year, a total of 16,957,913 acres, or one fourth the state's area, were vacant lands subject to entry under the general land laws of the United States. Irrigation can not be applied to all this land as a part of it is mountainous, rocky and heavily timbered. Excepting Harney and Malheur counties, there are about 1,000,000 acres in Oregon, subject to entry under the homestead laws.

A total of 396,908 acres has been segregated from the public domain for reclamation by the state. The state has executed contracts with construction companies involving the expenditure by future settlers of over \$5,000,000. Since the adjournment of the last session of the legislature the state has executed contracts which authorize liens on 183,834 acres to the extent of \$4,692,700.

Most of the arable land in an area approximately 30 miles square, covering Bend, Sisters and Prineville, in Crook county, has been segregated under the Carey act. There are six segregations, involving an area of 254,694 acres. The water supply for this tract will be derived mainly from the regular flow of the Deschutes river and the Tumalo creek. In addition, storage will be provided at Grane Prairie on the headwaters of the Deschutes for the reclamation of 74,189 acres.

About 30 miles south of Bend is another segregation. It includes 31,082 acres, which will ultimately be reclaimed by the regular flow from a branch of the Deschutes river, supplemented by storage in Crescent lake. In Harney valley 76,832 acres have been segregated for reclamation.

Two Extensive Projects.
The reclamation schemes on which work is actually under way, a portion already having water, are the

Klamath project and the Umatilla project. The Klamath project embraces about 190,000 acres of land situated in Klamath county and the extreme northern part of California; the Umatilla project 20,000 acres immediately south of the Columbia river and east of the Umatilla river.

The Klamath project is divided into two parts, the "upper" and "lower." The latter embraces the land to be reclaimed in Oregon. The source of water supply is upper Klamath lake. The land is of good quality. The principal crops will be alfalfa, wheat, oats, barley, rye, vegetables and some deciduous fruits. Experiments in sugar beet culture show that it is probable that this crop can be successfully grown. To the present time a little over \$2,000,000 has been allotted for the project, and in October of this year about 34 per cent of the work had been completed, with an expenditure of \$1,558,000.

The engineering work in connection with the Umatilla project consists of a feed canal from the Umatilla river to the Cold Springs reservoir and a distributing system. The irrigable area under this project lies below 500 feet in altitude. It is rolling in character and the lands are of high fertility. The climate is warm, and the soil adapted to orchards, small fruit and vegetables. Transportation facilities are excellent. About \$1,500,000 has been allotted for the construction of the project, and in October of this year 81 per cent of the contemplated work had been completed, with an expenditure of \$1,400,753.

Irrigation, or reclamation, can be applied to practically any portion of Oregon, so complete is the system of rivers extending over this state. But the water user is seriously handicapped by the defective laws on the subject of water rights. One of the crucial problems confronting Oregon is the lack of some definite system of water titles. Any person can acquire a water right in this state by posting a notice at the proposed point of diversion, stating the amount of water claimed and the intended use, and recording the notice in the county clerk's or recorder's office.

Better Legislation Imperative.
It makes no difference if the waters of the stream have already been fully utilized at points below. The notice

can specify any amount, even though such amount exceed the entire flow of the stream. By refiling every six months a water right can be held indefinitely without use, and legitimate development retarded. It is this six months' refiling provision that is now menacing the safety of Oregon—retarding development of some of the richest sections of the state. It acts as a bar of protection for the public mulctee against the honest settler.

The counties of Umatilla, Union, Wallowa, Baker and Malheur, in eastern Oregon, offer striking examples of the water rights tangle. On the rivers of these five counties 3,428 notices of appropriation of water have been recorded, claiming a flow of \$10,025 feet per second. The aggregate is hundreds of times the combined flow of all the rivers on which filings are made! The total filings on the Malheur river amount to 58 times the maximum flood flow of this river at Vale! And the result of this? Litigation—an endless round of court battles. Until an efficient administrative system is perfected for conserving our water power resources, this chaotic condition of affairs will continue to act as a bar to the advancement of irrigated agriculture in Oregon.

In its report to the governor, the Oregon conservation commission goes into the subject of water power resources at length. Comparisons are made with laws of other states. The defects in the statutes of this state are pointed out, as well as what remedial legislation steps should be taken. The report itself is a valuable acquisition, throwing a light on conditions that have heretofore escaped general notice.

The commonwealth of Oregon carries a weighty responsibility. Upon it depends the working out of the plan for guarding inviolate the state's great resources for future generations. Towering high above all other resources in importance is the water power. It is the life-giving element—the foundation upon which this state will plant her prestige in years to come. And to conserve the water power, and other resources, the prime essential is unity—unity of purpose for the common weal. Let the Oregon farmer clasp the hand of the Oregon merchant, and let the Oregon merchant return the clasp. Let us adopt the slogan, "Oregon for Oregon, her products and her industries"; and we shall have advanced no small distance toward our goal.

THE ELECTRO THERMAL GARMENT FOR RHEUMATISM AND ALL KINDRED AILMENTS

A NEW SCIENTIFIC GARMENT MADE IN PORTLAND, and is indorsed and recommended by the leading physicians. THE THERMAL GARMENT is an application of electro-radiation to all parts of the body. There is 7000 feet of special-made and doubly insulated electro magnet wire woven all through the garment, forming one circuit, and can be connected to any electric light socket, the electricity passing over the wire in the garment generating a mild heat, which is one of the most potent therapeutic agents known to the medical profession.

A Child Can Operate Our Garment

There is absolutely no chance of harm in the use of this garment. If you are sick, it will help you. If you are well, the comfort you can have in this garment is gratifying, and as a protection and cure for colds and incipient pneumonia it has no equal.

RHEUMATISM, KIDNEY AND LIVER DISORDERS, CHILLS, GOUT, LA GRIPPE, PARALYSIS, INSOMNIA, etc., yield quickly in the garment.

Old people find it very comfortable, and as it is convenient, father or mother will appreciate one as a gift.

It costs nothing to investigate. A free treatment to the sick.



THE COAT THAT CURES

THE ELECTRO THERMAL GARMENT CO.

64 SIXTH STREET, BETWEEN PINE AND OAK STREETS, PORTLAND, OREGON
Office Hours 9 a. m. to 8 p. m. Open Sundays.

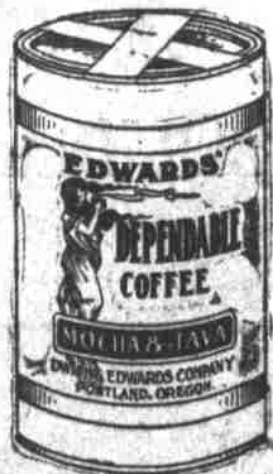
Found Quick Relief

Mountain View Sanitarium, City, April 26, 1908.—Electro-Thermal Garment Co., Portland, Or.—Gentlemen: Some time ago I purchased one of your Thermal Garments. I was at that time suffering unbearably with rheumatism. I found quick and permanent relief in using the garment.

I have also used the garment for general treatment in the sanitarium with marvelous results.

The garment has always given perfect satisfaction, and it gives me great pleasure to recommend this garment to the sick and afflicted in general.

Very truly,
MISS JULIA PARKER, Matron.
The above is one of the many testifying to the wonderful curative power of the Thermal Garment.



DEPENDABLE

Depend on **DEPENDABLE BRAND** If You Want Satisfaction

The Cheapest Is Not Always the Best, but the **BEST** Is **ALWAYS** the Cheapest

DEPENDABLE

If You Are Looking for Perfection Look This Way

Highest Grade of Goods Manufactured in the Northwest

AT YOUR GROCERS

DWIGHT EDWARDS COMPANY

FRONT AND COUCH STREETS

DEPENDABLE

