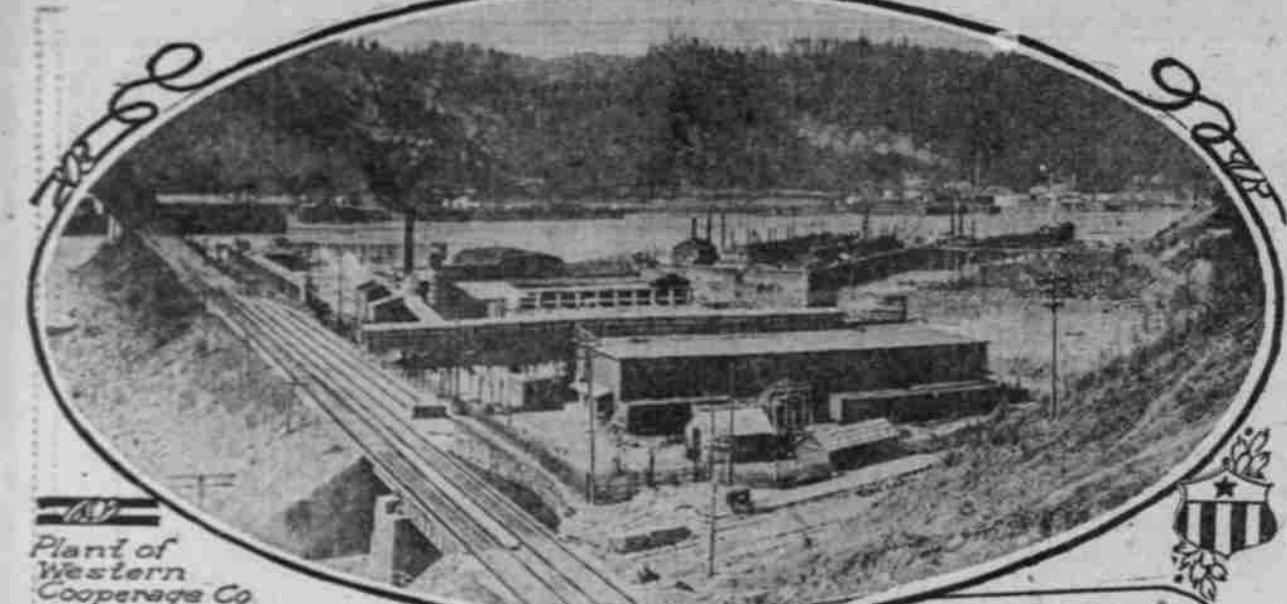
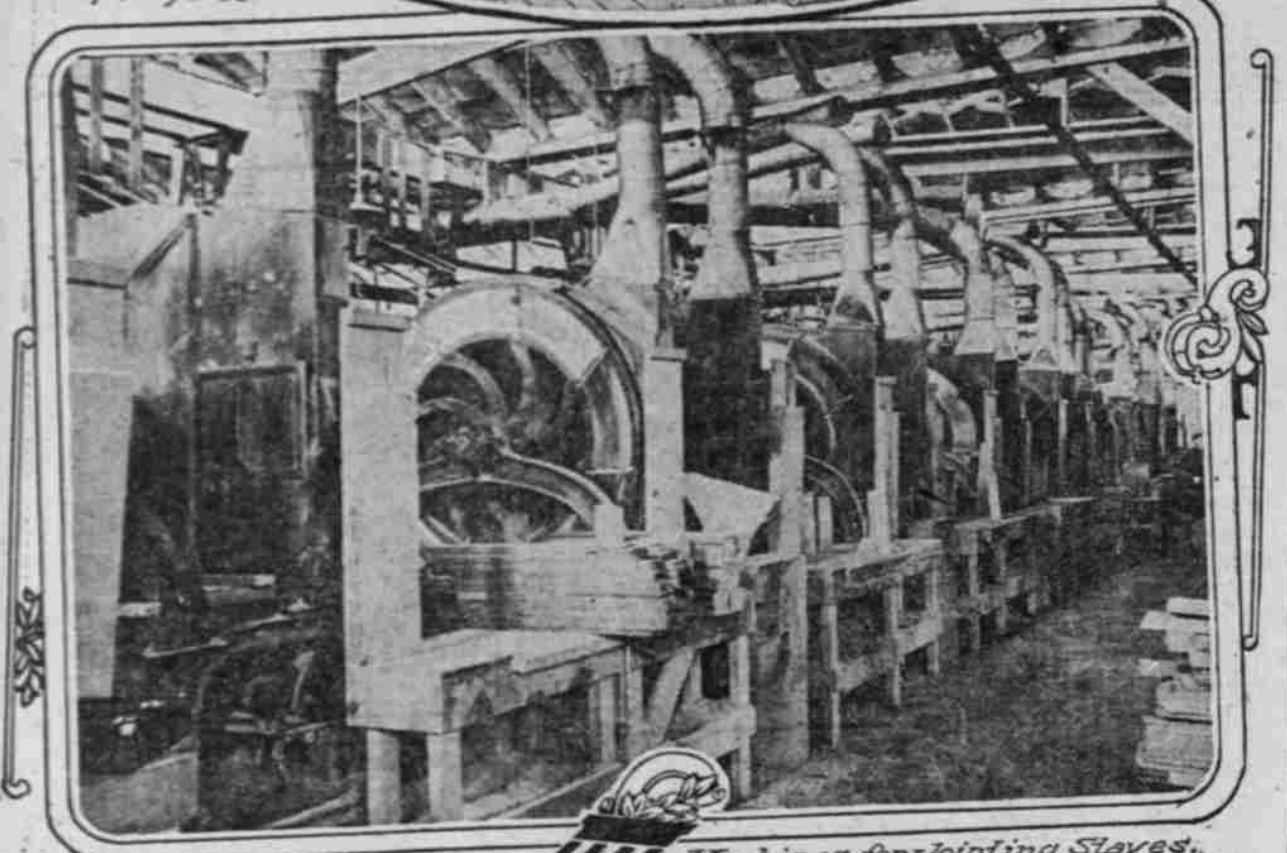


BARREL MATERIAL PLANT IS LARGEST

Western Cooperage Company Develops Big Industry—Annual Output's Value Over \$1,000,000



Plant of Western Cooperage Co.



Machines for Jointing Staves.



Staves and Heading in the Finishing.

A NEW industry to Portland and one of considerable interest is the operation of the Western Cooperage Company's stave and heading mills. This concern started in business on the Pacific Coast 25 years ago. Stock mills have been operated at Aberdeen, Wash., and at Houlton and Tremholm, Or. Two years ago this company concentrated its operation here, dismantling their other mills.

By manufacturing edge or vertical grain strictly No. 1 clear, entirely free from all defects, a product has been perfected which is successfully competing with oak and ash of the East, Middle West and South. Ninety-eight per cent of this company's business is done outside of Oregon. Its customers are scattered over 28 states and better than \$1,000,000 a year outside money is thus coming into this community. The company employs about 225 men, and this plant is the largest individual stave and heading plant in the United States, making material thoroughly kiln-dried, jointed, equalized and ready to set up. Many machines are employed, and as all of the material is kiln-dried, perhaps the largest series of dry-kilns of any wood-working operation on the Pacific Coast are employed, there being better than a mile of track in their dry-kilns and several miles of pipe.

This company logs its own timber at the mouth of the Columbia River. This is one of the lines of industry in which Portland leads. The entire plant is electrically driven. The equipment is all modern. The buildings are high and airy and are lighted in the most approved way. Wages paid are uniformly high.

The Western Cooperage Company is perhaps better known in the states where most of its output goes than it is right here at home. The staves and heading from this plant are used in making barrels for food products and oils chiefly. The staves vary in length from 12 inches to 36 inches and the heading from 8 1/2 inches diameter to 21 1/4 inches.

The monthly payroll of this company, including operation in the woods, is \$45,000. The concern is growing and offers an excellent opportunity for skilled men. The product is of an exceedingly high standard and is sold on a guarantee that the breakage in making into barrels will not exceed 2 per cent. The staves are shipped in bundles and are straight sawn on drum saws on the required diameter of the finished package. The bending of the staves and the barrel making is not done at this plant, but the material is finished ready for the cooper to set up and work off.

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WESTERN COOPERAGE CO.

Stave and Heading Mills

PORTLAND, OREGON

Located in St. Johns, Between the Port of Portland Dry Dock and the S. P. & S. Bridge—Take St. Johns Car, Get Off at Wall Street

feature is that lessons on sanitation are made vital by illustrations from the Army, and by a study of the comparison of food values arising out of the food-conservation campaign. Especially have these lessons been made to apply in the domestic science courses. The classes in domestic art this year are making articles that will be of use to the soldier, sending them direct in some instances, in others working as an aid to the Red Cross. In every way the war reacts on the school through all the subject matter. After the schools were opened this Fall and the work was well under way the first call for definite work came

from W. B. Ayer, food administrator for Oregon. Mr. Ayer asked that the schools assist in the food-conservation campaign by distributing the educational material prepared by Mr. Hoover and by sending the pledge cards to all the homes through the school children. This department sent a letter to every County Superintendent and City Superintendent of Oregon, explaining the plan and asking them to organize the teachers under their respective jurisdictions for this work. Immediate responses came from every section of the state. Superintendents called together their teachers and explained to them the plan, and they in

turn taught the work to their pupils. In cities the teachers had the assistance of commercial clubs and public-spirited business and professional men, who assisted by public meetings in educating the people as to the need of food conservation. The teachers and pupils then secured the pledges. In the rural districts this work fell almost entirely upon the teacher and her pupils, aided by the County Superintendent. In many counties the County Superintendent visited every district in his county between the time of the first call and the week set aside for securing the pledges, a period of about four weeks. It has been de-

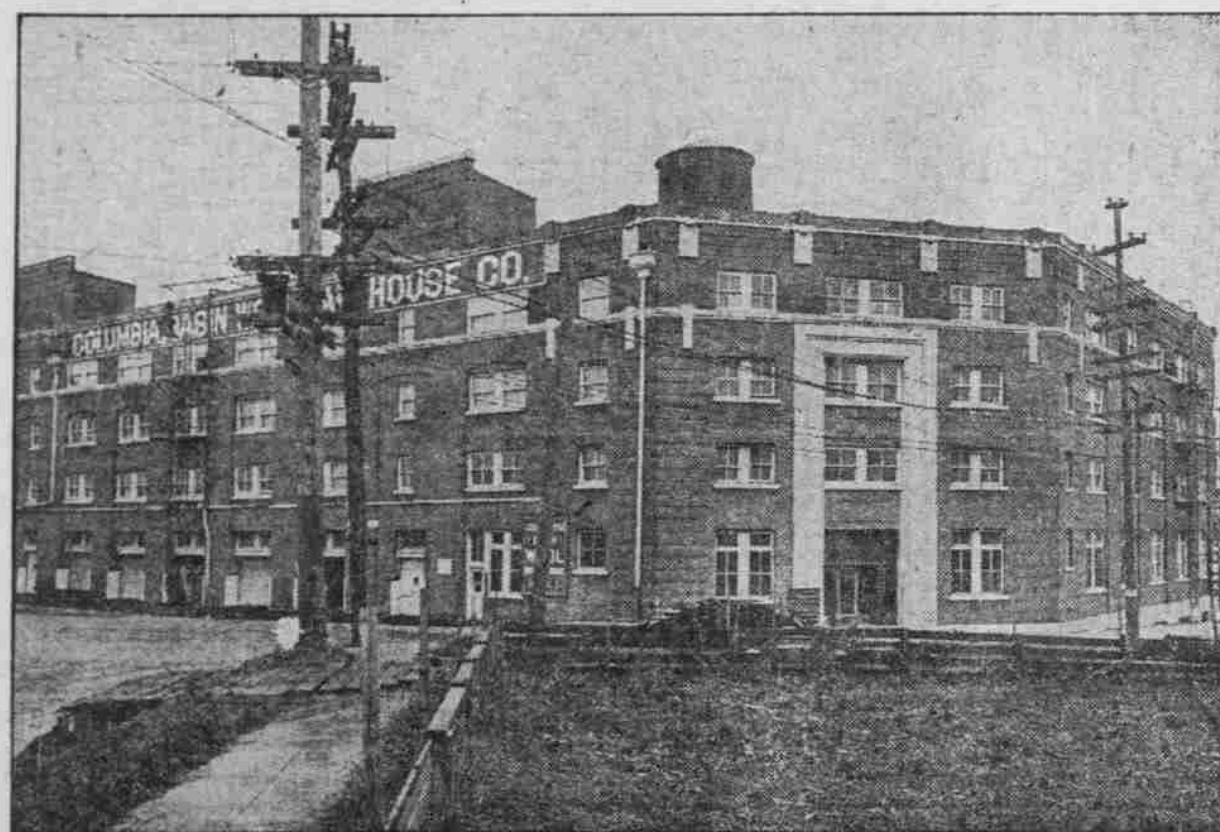
ided to continue the campaign of education in food substitution and conservation throughout the year through lectures and competitive essays. On the whole, our schools are filled with patriotic teachers, trying to do their bit, willing to make any sacrifice to help win the war. They are inculcating in the minds of our boys and girls correct principles of citizenship. They are taking their part in the community work. As a result the schools of Oregon are working together as a vast army, and every drive they make will help to bring our country nearer its goal—"a world made safe for democracy."

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HENRY L. CORBETT, Vice-President
J. C. AINSWORTH, Vice-President

S. C. SPENCER, Secretary
E. F. ROY, Treasurer
E. W. RUMBLE, General Manager

Columbia Basin Wool Warehouse Co.

(INCORPORATED)



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OREGON SCHOOLS FIRST IN PATRIOTISM

Through Organized Effort Teachers and Pupils Render Aid to War Efficiency Programme

By J. A. Churchill, Superintendent of Public Instruction.
"ONE hundred and seventy-five boys and girls of this county bought liberty bonds during the last campaign. Ninety-three per cent of the school children in the Jacksonville School aided in making up our war library fund, which was far over-subscribed. The same school has subscribed more than their allotment for the war Y. M. C. A. work. Sewing classes in all our schools, even the smallest, are doing much that will be of assistance to those at the front. Our school teachers, by organizing their pupils in effective working teams at the request of our county chairman, obtained the Hoover pledges from 36 per cent of the homes of our county."

Thus reads the report of the County School Superintendent of Jackson County. A similar one was received from nearly every County Superintendent in Oregon. In response to my request for a report on what the schools of their respective counties were doing to help win the war. Many intensely interesting incidents of individual service and of self-sacrifice were told in these reports.

dividual assistance to our country in its present need might not end in disappointment through unorganized effort. The State Department of Education has attempted during the past year to direct the calls which legitimately may be made upon our boys and girls, so that at the close of each year the teachers and children in our public schools can feel that the schools of Oregon as one big institution, through their individual efforts, have carried out successfully certain definite labors which will be of material benefit to the Federal Government in winning the war. In directing this work the state department has not acted until after full consultation with those in authority directing the war, either by correspondence or by personal conferences with Federal officers or their representatives.

Work of Schools Gratifying.
The first step in organizing this work was taken in July, when a letter was sent to each high school graduate and to each undergraduate college student in Oregon, signed by the Governor and myself, urging all students who were under the draft age, or who were not yet prepared for special work, to remain in school. This letter, though it was misunderstood by some who had not read it carefully, was sent out upon request of the United States Commissioner of Education, immediately after the meeting of college presidents at Washington, D. C., called by the National Council of Defense, for the purpose of urging all educational institutions to keep their work intact. Our letter was in conformity with the address made to the presidents by Secretary of War Newton D. Baker. It followed also a letter from President Wilson, urging all college presidents and educators to keep the children in school as a patriotic duty, that

we may have trained men and women to carry on the war as long as it continues, and to do the reconstruction work when the war is over. The results when the schools opened were gratifying. Those who have not enlisted are back in the schools working harder than ever before to prepare themselves for citizenship. Oregon will not have to bow her head in shame at the end of the first year, nor will she have such a record as in Germany, where the records show that in Berlin in 1915 twice as many crimes were committed by children as in 1914, while in Munich the number of juvenile delinquents in the first three months of 1915 equaled the total for 1914. There the schools were neglected during the first year of the war. Here in Oregon the children are all in school, discipline has been maintained, and teachers report that the pupils, especially those of the upper grades, show a greater determination to do serious work than in previous years.

War Proves Great Teacher.
The teachers of Oregon have not been unmindful of the fact that even in the awful tragedy of this war, lessons for good may be found, and they have shaped their courses of study accordingly. Never before have the lessons in geography been of such intense personal interest. The question of food supply has been vitalized by studying the needs of our Army and Navy and the civilian population, together with a searching out of the resources of this country and the nations upon which we are dependent. Transportation has taken new interest on account of sending our boys to France as well as its relation to the food supply. The study of civics is being made a study of good citizenship, the rights and duties of a citizen, the problems of naturalization, and the position of aliens. Another important