THE COLD RESISTANCE OF PACIFIC COAST SPRING WHEATS AT VARIOUS STAGES OF GROWTH AS DETERMINED BY ARTIFICIAL REFRIGERATION

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Certain varieties of spring wheat are commonly fall sown in the Columbia River Basin of eastern Oregon. Their early maturity often enables them to escape hot winds and severe summer drought at a critical period of development. A recent survey by Hill (3) showed that Federation, a white spring wheat, is more uniformly distributed over the dry-land section of Oregon than any other variety. A large percentage of the Federation acreage is sown in the fall. Jenkin and some of the other spring varieties are also fall sown to a limited extent. Field observations indicate that distinct differences in winter hardiness exist between many of the spring wheat varieties grown in this section. The snow covering often is sufficient to prevent

1Contribution from the Division of Cereal Crops and Diseases, Bureau of Plant Industry, U. S. Dept. of Agriculture, and the Oregon Agricultural Experiment Station, Corvallis, Ore. Submitted in part to the Kansas State College of Agriculture and Applied Science in partial fulfillment of the requirements for the degree of master of science. Received for publication April 16, 1932.

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3Reference by number is to "Literature Cited," p. 880.