

needs of the farmers in this intermountain section and are now studying questions supposed to be of most local importance. Questions concerning irrigation are being studied and as this is a question that does not concern the farmer in the east so much, is of more local importance. Our conditions are such that it would be useless for the people of Utah to compete with the corn growing states in the production of a large hog, but it has been thought that with our enormously large yields of lucern that this crop could be utilized in the production of the bacon hog. Experiments to test this question of the economic production of the bacon hog have been in progress during the past six years, and the experiments have confirmed the idea that the bacon hog can be produced as cheaply in Utah as anywhere in the United States. Tests are also being made at our station with the different field crops. Some forty-four varieties of fall wheat were sown on the station grounds last fall, and while this work of testing varieties is not so important as some other lines of work, still it has its value in bringing in and acclimating new varieties, and it may be in securing varieties better suited to our conditions than any now in use. We are testing yearly different varieties of wheat, fall and spring, oats, barley, corn and grass. Tests are also made of the different methods of tillage, a comparison of the results of different times of plowing, fall and spring, early and late, and different depths. I shall give in detail the results accomplished in a few of the experiments at our station, but first I desire to call your attention to at least one of the important results achieved by another station.

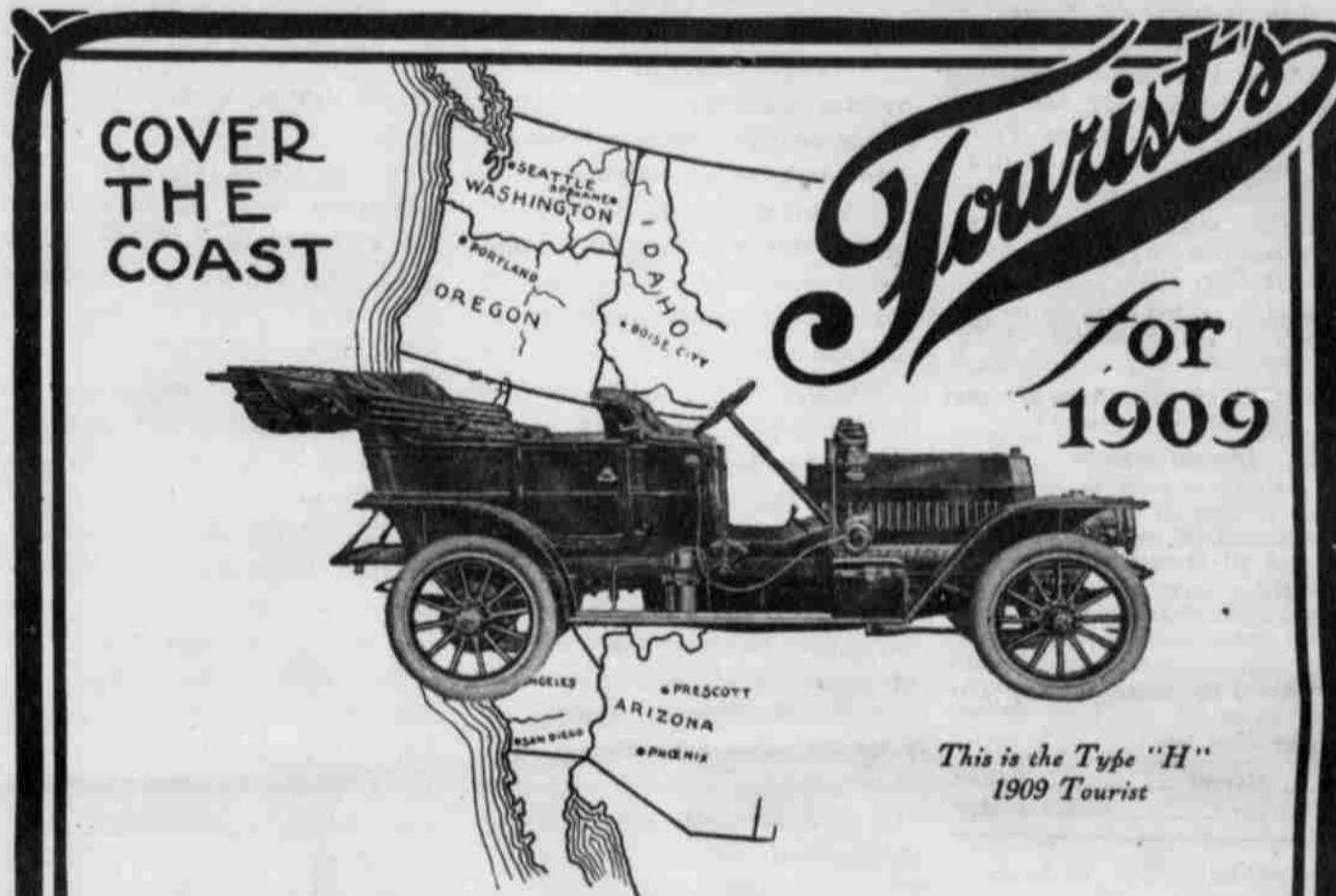
In the east it is common practice to use commercial fertilizers, the desirable constituents being nitrogen and soluble phosphoric acid. When the station in Connecticut began its work in 1875 a number of brands of fertilizers were being sold. These brands were taken, analyzed and their composition compared with the selling price. It appeared at the rate farmers were paying, for the nitrogen from 10 1-3 cents to \$1.67 and for the soluble phosphoric acid from

10 cents to 25 cents per pound, the last reports in that state show that the farmers are now paying about 12 cents for the nitrogen and not more than 8 1-2 cents for the phosphoric acid. On this item alone the station

has saved for the state of Connecticut more than it has ever cost them. I know of one intelligent and progressive farmer in Cache county who had concluded that the plant food in his soil had become exhausted,

and that it would be necessary to use commercial fertilizers. He was told the experience of the experiment station in regard to imported fertilizers, and advised to

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