

estimate of its cost in the preliminary report.

The small amount of the actual cash expenditure for the construction of the earth ditches is shown by the fact that only some \$50.00 was spent on the 2 miles dug, since nearly all the work was done by the pupils of the Industrial School. If we had been able to use earth ditches entirely, as was originally supposed the cost of the distribution system would have been comparatively small.

When we came to examine carefully the actual conditions, after work was started on the construction of the pumping plant, we found that a considerable length of flumes would be necessary, and that the expense for the distributing system would be quite a considerable item. However, the pumping plant would be useless without the distribution system, and there was no time to spare if the necessary work was to be done before the river rose, and if the water was to be ready in time to save this season's crop. Under these circumstances we decided to proceed with the extra work and carry it out as speedily and economically as possible, consistent with good workmanship.

The accompanying plant shows the extent of the distribution system as actually built. There are 2 miles of earth ditches and 2260 feet of substantial lumber flumes supported on trestles from 1 to 5 feet high. The whole system is proportioned according to the amount of land to be served and the water to be carried. The actual cash outlay on the ditches, as already mentioned, was only about \$50.00. The flumes, on the other hand, cost \$470.00 for lumber and material and \$440.00 for labor, making a total of \$910.00 which was 40¢ per lineal foot.

Some outlying parts of the ditch system have not been finished yet, but the land they are to serve will not be irrigated this year. Nearly all the surveys have been made, and with the exception of 2 road crossings the work will be all earth ditches which can be dug by the pupils at the Industrial School at little extra expense. The Provincial Public Works engineer is talking of moving