

chased by a local farmer and during the summers of 1929 and 1930 a total of about thirty-two miles of underdrains have been installed. So far this work has been confined to two townships.

Two bulletins have been written to make available to farmers practical information on the gasolene engine and on underdrainage. Both of these were published by the department of Agriculture of the province. The former Bulletin is published in English and French.

Agricultural Engineering extension presents for the future a field of enormous possibilities. Nothing is more urgently needed in the agriculture of this province than a lowering of production costs. In this connection the reduction of the percentage of total capital invested in non-productive equipment and the need for increased efficiency in the use of labor are of fundamental importance. The first calls for farm re-planning, greater efficiency in the use of buildings and machinery and often considerable reorganization of method; the second is largely concerned with the choice and more effective use of all kinds of mechanical equipment so important in the necessary increase of production per worker. The agricultural engineer is the logical consultant in practically all questions arising in the solution of these vital problems. This is a field of extension which, at the present time, must be left untouched due to a lack of help.

Investigation and Research

Any research projects to be undertaken by this department must be of such a nature as not to call for the full time of one man.