DITCHING AND DRAINING, A MANUAL OF TABLES FOR COMPUTING WORK DONE

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DITCHING AND DRAINING, A MANUAL OF TABLES FOR COMPUTING WORK DONE

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DITCHING AND DRAINING:

A MANUAL OF

TABLES

FOR COMPUTING WORK DONE.

SHOWING

LENGTH OF DRAINS IN ANY PIECE OF LAND FROM 1 POLE TO 100 ACRES,

NUMBER OF PIPES OR TILES REQUIRED;

CUBIC OR SOLID CONTENTS OF DIGGING IN DITCHES AND DRAINS;

WITH OTHER USEFUL TABLES.

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PREFACE.

THIS little Work, extracted from the *Agriculturist's Calculator*, will, it is hoped, prove useful to persons engaged in the conducting of Ditching and Draining operations, whether as Employers of Labour on their own estates or farms or as Professional Contractors. The Tables have been prepared with the utmost care, and every effort made to insure their correctness, and render them suitable for the purposes which they are intended to serve. Explanatory remarks are also prefixed to each set of Tables, to facilitate their consultation and their application to actual practice. It is believed that, by the aid of this Manual, much valuable time may be saved, and mistakes, occasioned by the working out of intricate calculations, altogether avoided.

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TABLE I.

SHOWING THE LENGTH OF DRAINS IN AN IMPERIAL ACRE, AT DISTANCES FROM 9 TO 63 FEET APART, IN YARDS, IN STATUTE RODS OF 5½ YARDS, AND IN ROODS OF 6 YARDS: ALSO THE NUMBER OF DRAINING TILES OR PIPES THAT ARE REQUIRED TO LAY THE DRAINS, AT LENGTHS OF 12, 13, 14, 15, 16, AND 18 INCHES.

THE first column on the left hand contains the distances or widths between the drains; the second contains the length of drains per acre, in yards; the third the number of rods per acre; the fourth the number of roods per acre; and the fifth to the tenth columns contain the number of tiles of each length, required for an acre, at the opposite widths in the left-hand column.

In the Table, fractions less than ½ of a foot are omitted in the second column, and when less than ½ of a yard, in the third and fourth.

Drains in some parts of the country are measured by the rood of 36 yards in length, and in other parts by the chain of 66 feet; but statute rods of 5½ yards, and roods of 6 yards in length, being most generally used, the Table is calculated at these lengths. The rood of 36 yards is equal to 6 roods of this Table, and the chain of 66 feet is equal to 3⅔ roods.

It will be observed that the length of the drains, and the number of tiles required per acre, is in proportion to the width between the drains; therefore if a width twice that of any in the Table is wanted, you have only to divide the numbers in the columns opposite that width by 2, the quotients will give the length of drains and number of tiles required.

To find the expense of draining per acre, multiply the number of yards, rods, or roods, opposite the proposed width between the drains in the Table, by the estimated cost per yard, rod, or rood, as the case may be.

EXAMPLE I. It is proposed to drain a field, placing the drains 30 feet apart, required the length of drains per Imperial acre in yards and roods, and the number of tiles 14 inches in length that will be needed per acre.

Look in the left-hand column of the Table for 30 feet, the width, opposite which stands 484 yards, or 80 roods 4 yards, the length of the drains, and under length 14 inches stands 1245, the number of tiles required to lay the same.

EXAMPLE II. In draining a field at a width of 80 feet, how many yards, and how many rods of drains are there per Imperial acre, and what number of tiles 15 inches in length will be required per acre?

As the Table does not extend to 80 feet, divide the numbers opposite 40 feet by 2, which gives 181½ yards, or 33 rods of drains, and 436 tiles 15 inches in length per Imperial acre.

EXAMPLE III. Required the expense of draining per acre, at a width [illegible]