

LOCHS OF THE LUCE BASIN.

THE area draining into Luce bay, on the south coast of Scotland, includes seven lochs which were sounded by the Lake Survey, viz. Lochs Magillie, Soulseat, Cults, Ree, Whitefield, Eldrig, and White Loch of Myrton. The three first-mentioned lochs drain by the Pitlanton burn into the head of Luce bay near Glenluce, while Loch Ree lies farther to the north, near the eastern shore of Loch Ryan, and drains by the Penwherran burn into the water of Luce, the three last-mentioned lochs draining, each by an independent stream, into Luce bay on its eastern side.

Loch Magillie (see Plate XXXIX.).—A very small oblong loch, situated 150 yards to the north of Soulseat Loch. It is surrounded by fields, and has stony shores. It is nearly a quarter of a mile long and one-tenth of a mile broad. The greater part of the bottom is covered by 7 feet of water, or less, deepening slightly towards the east shore, close to which is the maximum depth of 14 feet. The mean depth is over 5 feet, the area about 12 acres, and the volume 3 millions of cubic feet. The drainage area is about one-third of a square mile. There is no apparent outflow, but the water is supposed to percolate through the gravel to Loch Soulseat. When surveyed on August 21, 1903, the surface was $4\frac{1}{2}$ feet above Loch Soulseat, or 43·7 feet above sea-level. The temperature at the surface was $61^{\circ}\cdot 2$ Fahr., and at 10 feet $61^{\circ}\cdot 0$.

Loch Soulseat (see Plate XXXIX.).—Soulseat Loch lies half a mile south-west of Castle Kennedy station on the Portpatrick and Wigtownshire railway. It is surrounded by fields, and in form is irregular, being divided into two portions by a wooded promontory, on which are the ruins of Soulseat abbey. The length is over half a mile, and the greatest breadth over a quarter of a mile. The constriction at the promontory is 16 feet deep, the basin on the north has the maximum depth of 42 feet near the north shore, while the southern basin is shallower, with a depth of 30 feet near the east shore. The mean depth is over 15 feet, the area 71 acres, and the volume 47 millions of cubic feet. The drainage area, including Loch Magillie, is $1\frac{1}{4}$ square miles. The Soulseat burn flows south about 2 miles into the Pitlanton burn. The surface, on August 20, 1903, was 39·1 feet above sea-level, nearly identical with the elevation determined by the Ordnance Survey on June 8, 1893, viz. 39·0 feet. The