

is about 48 acres, or 56 per cent. Loch Broom was surveyed on June 11, 1903, but the elevation above the sea could not be determined. Drift-marks were observed 3 feet above the level of the water on the date surveyed.

The temperature of the surface water on commencing the survey at noon on June 11, 1903, was 60°·0 Fahr., and two readings in open water—one at the surface and one at a depth of 8 feet—gave in each case 60°·8.

*Loch Essan* (see Plate XXVII.).—Loch Essan (or Easain), a hill loch lying to the north of Loch Dochart, containing dark-coloured trout of rare quality, but strictly preserved, flows by the Allt Essan into the river Dochart after it leaves Loch Iubhair. It is nearly half a mile in length, and over one-fifth of a mile in maximum breadth, the mean breadth being about one-ninth of a mile. Its waters cover an area of about 32 acres, and it drains an area of over 1½ square miles—an area 32 times greater than the area of the loch. Over 40 soundings were taken in Loch Essan, the maximum depth observed being 18 feet. The volume of water is estimated at 9,664,000 cubic feet, and the mean depth at nearly 7 feet, or 38 per cent. of the maximum depth. The length of the loch is 135 times the maximum depth, and 356 times the mean depth. The loch trends in an east and west direction, and is very irregular in outline. The bottom is also irregular, forming three small basins with depths exceeding 10 feet, the westernmost being the deepest, the maximum depth of 18 feet having been observed about one-sixth of a mile from the west end of the loch. To the east of this western deep basin, and near the centre of the loch, lies a heap of stones around which soundings of 6 feet were taken. A little farther to the east lies the central 10-foot basin, based on a sounding of 11 feet. To the east of the central basin there is a constriction in the outline of the loch in which soundings of 7 and 8 feet were taken, and on approaching the east end the loch widens out, and the bottom sinks to form the third (eastern) 10-foot basin, the maximum depth in which is 16 feet. To the south of this eastern basin is a small island, the passage between the island and the shore being obstructed by weeds, and weeds are also abundant along the northern shore. The area of the lake-floor covered by less than 10 feet of water is about 26 acres, or 81 per cent. of the total area of the loch, while that covered by more than 10 feet of water is about 6 acres, or 19 per cent. Loch Essan was surveyed on June 16, 1903, the elevation of the surface of the water being estimated at about 1440 feet above sea-level.

*Lochan Breaclaich* (see Plate XXVII.).—Lochan Breaclaich (or Loch-an-Breacklaich), a hill loch containing fine trout, flows into Loch Tay near its south-west end by the Allt na Breaclaich. It is peculiar