

of water is about 178 acres, as compared with 270 acres covered by water between 50 and 100 feet in depth, or 35 per cent. as compared with 53 per cent. In most lakes the arrangement is the reverse of this, the areas between consecutive contour-lines drawn at equal intervals usually decreasing with increase of depth. The temperature of the surface water at the east end on commencing the survey was $50^{\circ}0$ Fahr., while later in the afternoon, towards the opposite end the surface temperature was $49^{\circ}5$; but an easterly gale having sprung up, it was found impossible to take serial temperatures beneath the surface.

Loch na Beinne Bàine (see Plate LXXXII.).—*Loch na Beinne Bàine* lies in Guisachan forest, about 4 miles to the south-east of *Loch Beinn a' Mheadhoin*, and 8 or 9 miles to the west of *Invermoriston* on *Loch Ness*. It is irregular in outline, trends in a north-north-east and south-south-westerly direction, and is nearly a mile in length, with a maximum breadth of nearly half a mile. The superficial area is about 154 acres, or a quarter of a square mile, and the area draining into it about $1\frac{1}{2}$ square miles. The maximum depth of 67 feet was observed about a quarter of a mile from the southern end of the loch, midway between an island of stones and the eastern shore. The volume of water is estimated at 190 million cubic feet, and the mean depth at $28\frac{1}{3}$ feet. The loch was surveyed on June 6, 1904, but the elevation of the lake-surface above the sea could not be determined; the height of the water at the sluice was about 2 feet, and at one time the loch appears to have been considerably higher.

Loch na Beinne Bàine forms a simple basin; the 25-foot contour coincides approximately with the outline of the loch, but is deflected at the position of the island of stones off the western shore towards the southern end, while the 50-foot basin, based on soundings of 67, 64, 54, and 52 feet, is contained in the southern half of the loch, and is about a quarter of a mile in length. The soundings indicate in one or two places slight undulations of the lake-floor, but as a rule the slope of the bottom is regular and gentle. The area covered by less than 25 feet of water is about 95 acres, or 62 per cent. of the total area.

Temperature Observations.—A series of temperatures taken in the deepest part of the loch gave the following results:—

Surface	$60^{\circ}8$ Fahr.
10 feet	..	.	$60^{\circ}0$,,
20 ,,	$50^{\circ}5$,,
40 ,,	.	..	$47^{\circ}6$,,
60 ,,			$46^{\circ}5$,,

These observations indicate an extreme range of temperature from surface to bottom amounting to $14^{\circ}3$, there being a fall of $9^{\circ}5$ between