

*Temperature Observations.*—Temperature observations taken at 6.30 p.m. in the deepest part of the loch gave the following results:—

Surface	...	...	...	.	.	..	...	62° 3 Fahr.
5 feet	...	...	..	...	..	.	.	62° 0 " „
10 „	...	...	...	.	.	.	..	54° 2 " „
15 „	...	...	...	.	..	..	..	52° 4 " „
25 „	...	...	...	.	..	..	...	49° 0 " „
50 „	...	.	.	.	.	..	.	47° 4 " „
65 „	...	...	.	.	.	..	..	47° 2 " „

This series shows a range of temperature from surface to bottom amounting to 15°·1, the greatest fall being one of 7°·8 between 5 and 10 feet, there being a further fall of 3°·4 between 15 and 25 feet.

*Loch of Drumellie* (see Plate XXX.)—The Loch of Drumellie (or Marlee Loch) lies about a mile to the east of the Loch of Clunie, and is surrounded by cultivated ground, the fields sloping gently up on all sides. Its shores are stony or weedy, and the narrow portion leading to the outflow is quite choked up with weeds, except for an artificial channel about 4 feet deep leading to the landing-stage, where the burn flows out over a weir. Large yellow masses of decaying vegetable matter were floating everywhere. The loch is about seven-eighths of a mile in length, with a maximum breadth of nearly half a mile, the mean breadth being nearly one-third of a mile, or 37 per cent. of the length. Its waters cover an area of about 175 acres, or over a quarter of a square mile, and it drains directly an area of over 6½ square miles, but since it receives the outflow from the Loch of Clunie and from Rae Loch, its total drainage area is about 23¼ square miles—an area 86 times greater than the area of the loch. Over 70 soundings were taken, the maximum depth observed being 58 feet. The volume of water contained in the loch is estimated at 221,902,000 cubic feet, and the mean depth at 29 feet, or 50 per cent. of the maximum depth. The length of the loch is 78 times the maximum depth and 156 times the mean depth. The Loch of Drumellie forms a flat-bottomed basin, the bottom sinking in two places below the 50-foot line, with shallower water between. The south-eastern 50-foot basin is based upon two soundings of 51 feet, while in the north-western one the maximum depth of 58 feet was observed, situated less than a quarter of a mile from the west end of the loch. The average slope of the bottom is gentle, the steepest slope observed being about midway along the southern shore, where a sounding of 20 feet was taken about 100 feet from the shore, giving a slope of 1 in 5. The area of the lake-floor covered by less than 25 feet of water is about 72 acres, or 41 per cent. of the total area of the loch; that covered by water between 25 and 50 feet in depth is about 83 acres, or 47 per cent.; and that covered by more than 50 feet of water is about 20 acres, or 12 per cent. of the entire area of the loch.