

one-eighth of a mile wide, and 7 to 9 feet deep. Of the two basins which lie north and south of the constriction, the northern one is mostly shallow, with one little hollow of 26 feet deep to the north of the largest island. The southern basin is triangular in form, and the bottom slopes most steeply off the promontory on the west, close to which is the maximum depth of 57 feet. The mean depth is 15 feet.

The area of the loch is about 107 acres, and the volume of water 71 millions of cubic feet, nearly as great as that of Loch Vaara. The drainage area, which includes Loch Vaara, measures $2\frac{1}{3}$ square miles. Loch Clousta is fed chiefly by the overflow of Loch Vaara. At the outflow into the North Voe of Clousta is a dam and sluice. On July 11, 1903, the surface was 7·8 feet above sea-level, nearly identical with the level observed by the Ordnance Survey officers, on September 25, 1877, viz. 7·9 feet. The range of temperature was less than 1° from surface to bottom:—

Surface ...	..	..	..	..	..	55°·8 Fahr.
10 feet .	...	..	...	..	..	55°·8 ,,
25 ,, ...	...	..	...	..	...	55°·5 ,,
55 ,, ...	...	...	..	...	...	55°·0 ,,

Loch of Hostigates (see Plate C.) is a very small loch in the extreme north of Aithsting, measuring fully a quarter of a mile long from west to east, by a fifth of a mile in greatest breadth. Relatively to its small size it is fairly deep, measuring 41 feet somewhat east of the centre. The mean depth is 16 feet, the surface area about 19 acres, and it contains 13 millions of cubic feet of water. The drainage area is only one-eighth of a square mile. A small burn flows out to the north, through another little loch into Uyea sound. The level could not be determined.

On July 16, 1903, there was a range of temperature of $2^{\circ}\cdot 5$ throughout the body of water, the readings at 20 feet and at 35 feet being identical:—

Surface ..	..	..	...	...	57°·5 Fahr.
10 feet	..	..	..	..	56°·4 ,,
20 ,, .	..	..	...	..	55°·0 ,,
35 ,, .	...	...	...	..	55°·0 ,,

Clings Water (see Plate C.) is a loch of moderate size in Aithsting, draining through the small Loch of Setter (not surveyed) into the Voe of Clousta. The surrounding moorland rises to heights of from 100 to fully 150 feet above the loch. In form Clings Water is nearly square, with a deep bay on the east, and a narrow arm on the west. Though but a small loch, measuring only two-thirds of a mile long, by fully one-third broad, it is one of the deepest lochs in Shetland, the maximum, 73 feet, being only 1 foot less than that of the Loch of Girlsta. The mean depth is $26\frac{1}{2}$ feet, second only to the Loch of Girlsta. The superficial area is about 91 acres, and the contents 101 millions of cubic feet. It receives only surface drainage.