

to 20 feet, and then a fall of no less than 6° Fahr. between 20 and 30 feet:—

Surface ...	...	...	..	...	...	57° 0 Fahr.
10 feet ..	..	..	..	..	...	57° 0 „
20 „ ...	...	..	...	...	...	57° 0 „
30 „ ...	..	...	...	...	..	51° 0 „

Kinghorn Loch (see Plate CXVI.) is a small deep basin about half a mile from Kinghorn on the northern shore of the Firth of Forth. It is sub-circular in outline, and about one-third of a mile in maximum diameter, covering an area of about 30 acres. The basin is simple, with the maximum depth of 38 feet centrally placed, but towards the southern shore. The volume of water is estimated at 20 million cubic feet, and the mean depth at over 15 feet. When surveyed on May 19, 1905, the elevation was 203·4 feet above the sea, as compared with 205·2 feet found by the Ordnance Survey on May 4, 1893. The following temperatures taken in the deepest part show a constant temperature from the surface down to 20 feet, and then a fall of 4° Fahr. between 20 and 30 feet:—

Surface ...	...	...	...	...	...	55° 0 Fahr.
10 feet ...	...	...	..	.	..	55° 0 „
20 „ ...	...	...	...	..	..	55° 0 „
30 „ ...	...	.	...	..	...	51° 0 „

Loch Fitty (see Plate CXVI.) lies about 3 miles north of the town of Dumfermline in Fife, and 5 miles south of Loch Leven. It trends nearly east and west, and is nearly a mile in length, and practically uniform in width, the maximum breadth being about one-third, and the mean breadth a quarter, of a mile. The superficial area is about 143 acres, and the drainage area about 9 square miles. The loch forms a simple basin, with the deeper water lying along the southern shore, where an artificial bank has been built across, off which the maximum depth of 16 feet was found; the small part of the loch cut off by the embankment has a maximum depth of 12 feet. The volume of water is estimated at 46 million cubic feet, and the mean depth at 7½ feet, fully two-thirds of the bottom being covered by less than 10 feet of water. The loch was surveyed on May 12, 1905, when the elevation was 412·8 feet above the sea, as compared with 413·0 feet determined by the Ordnance Survey officers on March 22, 1894. The temperature at the surface was 53° 0 Fahr., and at a depth of 15 feet 52° 0.

Loch Gelly (see Plate CXVI.) lies about 4 miles to the east of Loch Fitty and about the same distance south-east of Loch Leven. It is a broad, shallow, flat-bottomed basin, three-quarters of a mile in length from east to west, by nearly half a mile in maximum breadth. The superficial area is about 148 acres, and the drainage area about 2½ square miles. The maximum depth is 9 feet, and the mean depth 5 feet, the volume of water being estimated at 32 million cubic feet. When surveyed on May 11, 1905, the elevation was 351·2 feet above the sea, almost identical with