

Makarewa: Charles Coster.

New River and Foveaux Straits: Thomas Thomson, Harbour-master.

West Coast, Middle Island—

G. A. Woods, Marine Surveyor in s.s. "St. Kilda," survey steamer.

Dr. Hector, in schooner "Matilda Hayes," Geological Survey of Otago.

East and West Coasts, North Island—

Captain Fairchild and Dr. Hector, in s.s. "Sturt."

The Under Colonial Secretary, &c.

I have, &c.,

JAMES HECTOR.

ABSTRACT OF OBSERVATIONS ON THE TEMPERATURE OF THE RIVERS AND SEA IN AND ABOUT
New Zealand.

	Average Temperature of			Average Range of Temperature observed.	Date of Observations.
	Air.	Running Stream.	Sea.		
NORTH ISLAND.					
A. Rivers flowing to the East	68·9	54·5	...	—	1868 April 6 to May 3.
B. Rivers flowing to the West	55·2	54·7	...	8·5	April 1 to June 30.
SOUTH ISLAND.					
C. Rivers flowing to the East	53·3	49·6	...	14·5	March 6 to June 30.
D. Rivers flowing to the South	49·4	47·9	...	12·6	February 23 to June 30.
NORTH ISLAND.					
E. Sea, East Coast ...	67·9	...	62·4	3·1	February 6 to April 30.
F. Sea, West Coast ...	57·5	...	58·9	9·2	February 1 to May 31.
SOUTH ISLAND.					
G. Sea, East Coast ...	55·9	...	53·8	9·5	March 8 to June 30.
H. Sea, West Coast ...	49·6	...	51·6	17·0	April 19 to May 31.
I. FOVEAUX STRAITS ...	51·3	...	52·0	6·6	February 18 to June 30.
SOUTH ISLAND.					
K. Sea, West Coast ...	52·5	...	53·8	—	May to December, 1863.

GENERAL ABSTRACT.

Rivers, East Coast of both Islands	...	...	...	52·0	A., C.,
Rivers, West Coast of North Island	...	...	...	54·7	B.,
Rivers, South Coast of South Island	...	...	...	47·9	D.,
Sea, East Coast of both Islands ...	...	...	...	58·1	E., G.,
Sea, West Coast of both Islands...	...	...	...	55·2	F., H.,
Foveaux Straits	...	...	...	52·0	I.

A.—RIVERS FLOWING TO THE EAST.—NORTH ISLAND.

Locality.	Date.	Average Temperature of				Extreme range of Temperature of Water observed.	Remarks.
		Air.	Running Stream.	Ebb Tide.	Flood Tide.		
<i>Hawke's Bay—</i>							
1. Tutaeakuri	1868. April 29	65·	56·	...	...	...	Three miles from mouth—Tidal.
Do.	" 6	73·	59·	...	...	...	Twelve miles from mouth.
2. Tukituki	" 6	71·	54·	...	...	...	One mile from mouth—Tidal.
Do.	May 3	66·	54·	...	...	...	One mile from mouth—Tidal.
Do.	April 9	73·	56·	...	...	...	Forty miles from mouth.
3. Wairoa	" 27-23	52-76	52-53	...	...	...	Near the mouth—Tidal.
4. Ngarurora	" 7	74·	55·	...	...	...	One mile from mouth.
Do.	" 30	77·	54·	...	...	...	One mile from mouth.
Do.	" 14	70·	53·	...	...	...	Twenty miles from mouth.
5. Mohaka	" 25-26	60·	54·	...	...	...	Near the mouth—Tidal.
Do.	" 26	64·	54·	...	...	...	Two miles above mouth—Tidal.
Do.	" 30	58·	52·	...	...	...	Two miles above mouth—Tidal.