

APPENDIX No. 2.

EXTRACTS FROM THE REPORTS OF CHIEF SURVEYORS IN CHARGE OF SETTLEMENT OPERATIONS IN DISTRICTS.

AUCKLAND.

Mean Degree of Precision attained in Survey for the Period.—In pursuance of the system initiated two years ago, the surveyors were required to attach to their annual returns a fair selection of their trigonometrical and chain closures for the past twelve months, the result of which is appended hereto, together with those previously obtained, from which it will appear that the character of the work is very uniform, taken as a whole, and that in no single instance is the limit of closure allowed by regulation, either in triangulation or traverse, approached. To the use of the steel band in lieu of the ancient form of Gunter's chain is undoubtedly due the near approach of the chain closures to those of the triangulation, and, when the general nature of the country over which, as a rule, the chainages have to be made is taken into consideration, it must be acknowledged that great credit is due to the surveyors who produce these results.

AUCKLAND TRIGONOMETRICAL and CHAIN CLOSURES, 1883-84.

Surveyor.	Trigonometrical.			Chain.			
	Number of Closures.	Mean Difference of Bearing of Closures.	Mean Difference of Closure per Mile in Links.	Number of Closures.	Number of Traverse Lines.	Total Length of Traverse Lines in Miles.	Mean Error of Closure per Mile in Links.
G. W. Williams*	...	...	...	...	25	2.9	0.4
S. Weetman	...	...	...	23	449	43.2	2.02
E. C. Goldsmith	...	...	...	7	93	14.34	1.75
L. Cussen	5	8"	0.39	23	534	50.2	2.22
F. Simpson	...	...	...	20	400	26.0	2.1
J. Baber	...	...	...	10	190	32.8	1.2
F. H. Edgumbe	...	...	...	11	162	43.5	1.1
R. Neumann	...	...	...	...	57	3.5	3.3
P. E. Cheal...	...	...	...	5	159	14.2	0.51
W. J. Parris	4	70"	0.95	6	114	12.1	0.76
G. A. Martin	...	...	...	6	118	11.8	1.50
E. H. Hardy	27	7".5	0.45	4	72	14.7	0.57
H. M. Smith	1	4"	1.1	6	633	37.9	1.9
J. I. Philips	...	...	...	25	469	53.3	2.26
C. Stevens	9	8"	2.6	8	123	28.1	0.4
J. Hannah	...	...	...	6	135	13.4	2.5
D. W. Gillies	...	...	...	5	253	12.2	2.0
C. W. Macfarland	...	...	...	11	196	15.2	4.1
H. D. Haszard	...	...	...	2	63	12.5	2.6
H. G. Price...	5	...	1.14	3	184	7.8	4.4
H. A. Martin	...	...	...	2	112	10.4	0.75
	51	97".5	6.63	183	4,541	460.1	38.35
Means and totals, 1883-84	51	19".5	1.10	183	4,541	460.1	1.91
Means and totals, 1881-82	54	10".7	1.03	98	1,705	265.9	1.92
Means and totals, 1882-83	15	6".6	0.62	146	3,022	390.0	1.67
Means and totals, 1881-84	120	15".6	0.90	427	9,268	1116.0	1.83

* Standard Survey.

Major Triangulation.—In past annual reports frequent reference has been made to the long delayed triangulation of the King country, and the hope expressed that it would shortly be commenced. Happily the natives' objections, which have hitherto proved a barrier to this work, have been in a great measure removed, and as a consequence a very large area of country has been brought under the ruling process of major triangulation, the result of which, however, will not appear in the returns until next report. In December last, in the presence of the Hon. the Native Minister, a large meeting took place at Kihikihi, when the preliminary arrangements were made, and early in January Mr. District-Surveyor Cussen, with two assistants, was able to make a start into