

TABLE of CLOSURES, NELSON PROVINCIAL DISTRICT, 1882-83.

Surveyor.	District.	Number of Closures.	Length in Miles.	Mean ratio of error of Closures per Mile.	Average Length of Lines.
				Links.	Chains.
G. B. Sinclair	Wai-iti	7	23	2.6	4.7
A. P. Rawson	Wai-iti	18	54	3	8
J. A. Montgomerie	Reefton	8	21	2.2	13.4
J. H. Jennings	Reefton	1	2 $\frac{3}{4}$	3.6	6
G. H. Bullard	Waitahu	1	2 $\frac{1}{2}$	2.1	10.6
Bullard and Foy	Waitahu	1	4	1.9	9.7
Bullard and Jennings	Reefton	1	1 $\frac{1}{4}$	2.2	6.7
Jennings, Little, and Montgomerie	Reefton	1	3 $\frac{1}{2}$	2.6	8.9
Montgomerie and Jennings	Reefton	2	7 $\frac{1}{2}$	2	10.4
Montgomerie and Watkins	Reefton	1	2 $\frac{3}{4}$	2.8	9.7
Montgomerie and Little	Reefton	1	5 $\frac{1}{4}$	0.5	17.2
Smith and Thompson	Culverden and Mandamus	17	99	0.85	57
R. T. Sadd	Wai-iti	5	22 $\frac{1}{2}$	1.7	6
<i>Contract Surveyors—</i>					
J. B. Saxon	Wai-iti	2	9 $\frac{1}{4}$	2.7	6 $\frac{1}{4}$
H. Little	Reefton	1	1 $\frac{1}{2}$	4.2	7 $\frac{1}{4}$
C. E. Watkins	Reefton	1	1	5.6	8
<i>Land Transfer Surveys—</i>					
J. Rochfort	Motueka and Waimea	4	6 $\frac{1}{2}$	1.9	8
J. B. Saxon	Motueka and Wai-iti	5	6 $\frac{1}{2}$	0.5	8
T. J. Thompson	Waimea	2	3 $\frac{1}{2}$	2.1	35
R. T. Sadd	Wakapuaka	1	2 $\frac{1}{2}$	2.2	6 $\frac{1}{2}$
Totals		80	279 $\frac{3}{4}$...	247.3
Means		80	3 $\frac{1}{2}$	1.84	10.9

NOTE.—The above shows a fair average of closures.

MARLBOROUGH.

Major Triangulation, Topographical and Trigonometrical.—Since my report of the 30th June, 1882, operations of this nature have been vigorously carried on by Mr. Wilson. The completed triangulations, amounting to 320,700 acres of major and 347,300 acres topographical and trigonometrical. These triangulations were reported last year as finished, with the exception of the mapping, and the results of the closings given. The major and minor triangulations were carried on concurrently at a total cost of £1,332 12s., at the rate of 0.20d. for the major and 0.73d. for the minor. These triangulations commenced on the 1st May, 1881, completed on the 20th October, 1882, embracing an area of 347,300 acres; are carried over parts of Cloudy Bay, Taylor Pass, Blue Mountain, Clifford Bay, Cape Campbell, and Hodder Survey Districts, extending southwards along the East Coast to the Flags River. During the remaining eight months of the year Mr. Wilson has been engaged on similar triangulations, continued from the neighbourhood of the Flags River (where the above triangulations left off) and joined with Mr. Marchant's Amuri Survey, the area being 363,905 acres of major, and 142,078 acres of minor; the cost from the commencement of the work on the 21st October to the 30th June, 1883, being £806 13s. 9d. The field-work is completed, the calculations are still in hand, and the plans have not yet been commenced. The country over which this work extends is generally of a rough and broken character, with bush in some parts, and covers parts of Whernside, Bui-Bui, Kaitarau, Mount Fyffe, Greenburn, and Hundalee Survey Districts, and parts of the Terako, Waiau, and Hawkswood Survey Districts, in the Nelson Land District. A base of verification was measured at Kaikoura, which showed a difference of 0.408 links in a mile less than Spring Creek base, the distance between the bases being about sixty-two miles, and 2.78 and 2.68 links in a mile greater than Amuri on sides, Highfield-Cookson and Highfield-Percival respectively. Taking the data for heights from mean high-water at Picton Harbour and the sea-coast near Kaikoura, and closed near the Clarence River, the difference shown by results obtained from Picton was 9 feet greater than those got from Kaikoura; the initial points being about eighty miles apart, the Kaikoura heights being about 10 feet less than Mr. Marchant's. There was no cadet assisting Mr. Wilson.

Section Surveys.—Of these, 3,496 acres of section survey, in fifty-seven sections, have been surveyed, forty-two of which are classed as revision surveys. Fifteen sections of the above have been laid off on application to go to auction and for selection under the deferred-payment system. The scattered positions of these sections in the bays of the Pelorus Sound, or in inaccessible localities adjoining old magnetic surveys requiring revision, necessitate a considerable amount of extra work in determining the boundaries of the adjacent surveys; and the revision surveys have been in connection principally with re-establishing these abuttal surveys.

Town Section Surveys.—No town section surveys have been made during the year; but, in the return of other work, it will be seen that thirty-two allotments as business sites under the Mines Acts have been set out at the request of Mr. Warden Allen in conformity with your instructions.