

No. 10—continued.—RETURN of FIELD-WORK executed by STAFF and CONTRACT SURVEYORS, from 1st July, 1888, to 30th June, 1889.  
PROVINCIAL DISTRICT OF WESTLAND.

Surveyor and District.	Topographical and Trigonometrical Survey.			Rural and Suburban.			Town Section Survey.				Native Land Court Survey.				Gold-mining Surveys.				Roads, Railways, and Water-races.			Detention by Native Opposition or other Causes.	Other Work.	Total Cost of Surveyor and Party from 1st July, 1888, to 30th June, 1889.	Remarks.	
	Acres.	Cost per Acre.	Total Cost.	Acres.	No. of Sections.	Cost per Acre.	Total Cost.	Acres.	No. of Allotments.	Cost per Allotment.	Total Cost.	Acres.	No. of Secs. or Divs.	Cost per Acre.	Total Cost.	Acres.	No. of Sections.	Cost per Acre.	Total Cost.	Miles.	Cost per Mile.	Total Cost.	Cost.			Cost.
W. G. Murray. Greymouth, Okarito, Totara, Otira, Waimea, Gillespie's, Waiho, Mount Cook, Karangarua, Bruce Bay	41,020	d. 0.44	£ s. d. 75 17 0	925	38	3/2½	£ s. d. 148 7 4	*20	57	£ s. d. 1 18 0½	£ s. d. 108 10 2	..	..	..	£ s. d. ..	834	19	6/1¼	£ s. d. 256 6 0	..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 71 5 0	£ s. d. 794 3 8	Quartz-claims on mountain-tops, and claims and section-surveys in rugged and broken bush country; very expensive. District within a goldfield.
G. J. Roberts. Greymouth ..	..	..	..	..	..	..	..	*158	286	1 1 7	{ 134 3 0	..	..	..	£ s. d. ..	..	..	..	£ s. d. ..	..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 202 0 0	£ s. d. 302 7 1	* Town sections, Native township, Greymouth. Amalgamation, connection, and readjustment of old broken and piecemeal town-section surveys; areas principally covered with overlapping buildings.
W. Wilson. Greymouth, Totara, Waitaha, Waimea	..	..	..	..	..	..	..					..	..	..	£ s. d. 175 4 3½	..	..	..	£ s. d. ..	339	8	4/7	£ s. d. 77 14 8	..	£ s. d. ..	£ s. d. ..
Contract Surveyors.																										
E. J. Lord. Arnold ..	..	..	..	..	..	..	..	..	..	..	£ s. d. ..	..	..	..	£ s. d. ..	..	..	..	£ s. d. ..	..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 2 2 0	£ s. d. 2 2 0	Readjustment of boundaries of Wallsend town sections, in consequence of action of Railway Department.
J. N. Smyth. Totara, Arawata	..	..	..	..	..	..	..	..	..	..	£ s. d. ..	..	..	..	£ s. d. ..	640	10	4/3.5	£ s. d. 137 11 6	..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	Mining surveys; dredging claims; swamp and beach country; expensive district; in a goldfield.
Means and totals	41,020	0.44	75 17 0	925	38	3/2½	148 7 4	178	343	1 4 4.8	417 17 5½	..	..	..	£ s. d. ..	1,813	37	5/2.4	471 12 2	..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 285 13 6	£ s. d. 1,339 18 9	

Minor Triang. and Top.										PROVINCIAL DISTRICT OF CANTERBURY.										Roads, Fences, and Streams.			Other Work.				Remarks.	
																							Acres.	Lots	Rate.	Cost.		
J. S. Welch. Ashley and Selwyn	111,512	1.05	487 19 0	893	10	1/7	70 13 11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	665 7 10	Very high precipitous country.
Topography only ..	62,340	0.53	137 13 4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
James Hay. Selwyn and Ashburton	134,247	0.85	474 8 9	7,224	94	7½	225 15 0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	641 13 2	Very high precipitous country. Sectional surveys. Lake Ellesmere Flat.
T. N. Brodrick. Mackenzie County	75,000	0.96	300 14 4	1,790	46	1/6	134 5 0	..	..	..	..	..	..	..	..	..	..	..	..	12½	2 16 0	35 0 0	..	..	..	..	637 5 0	
Topography only ..	90,000	0.48	180 0 0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
G. H. M. McClure. Ashburton County	30,200	0.77	97 13 6	1,195	24	1/2	69 14 2	..	..	..	..	..	..	..	..	..	..	..	..	26½	1 10 0	39 15 0	765	4	3/6	*11 12 0	571 13 1	* Survey of Educational Reserve 1112; survey not completed. Topography; very high precipitous country.
Topography only ..	218,800	0.37	337 6 4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
L. O. Mathias. Ashley, Selwyn, Waimate	..	..	..	292	22	3/3	47 9 0	..	..	..	..	306	7	2/	30 12 0	1,640	3	1/1½	93 5 0	45½	4 3 7	188 4 53,674	20	8½	126 15 4	505 1 0	Survey of Educational Reserves 1125, 1129, 1202, 1203, 1204. Survey of run-fences. In the cost appears time he was absent on leave, which cannot be charged to educational reserves surveys.	
Christchurch Office ..	..	..	..	1,276	33	/3	15 19 0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		15 19 0
Means and totals	350,959	0.93	1,360 15 7	12,670	229	/10.68	563 16 1	..	..	..	..	306	7	2/	30 12 0	1,640	3	1/1½	93 5 0	84½	3 2 3	262 19 54,439	24	7/48	138 7 4	3,036 19 1		
Minor triangulation Topography only	371,140	0.42	654 19 8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

Minor Triangulation.										PROVINCIAL DISTRICT OF OTAGO.										Roads, Railways, and Water-races.				Detention by Native Opposition or other Causes.		Other Work.		Remarks.
																								Cost.		Cost.		
John Strauchon. Glenomaru, Waikawa, Tuturau, and Woodland	30,000	2	250 0 0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	9 6 5	372 16 8	..	135 3 7	749 15 10	Only eleven months' work; one month charged against the Southland office. Both triangulation and road surveys are in bush country. Provisions had at one place to be carried fifteen miles, and at another place packed forty miles. In addition to this work, a block of 2,500 acres in Glenomaru District is well forward. Roads graded and traversed throughout. Cadet assisting for four months.		
David Barron. Maniototo, Lauder, Hummock, Budle, Naseby, Kye-burn, &c.	..	..	..	2,264	25	1/5½	191 3 9	14½	58	0 15 0	43 10 0	..	..	..	1,472	57	5/	368 0 0	..	..	..	..	196 13 4	791 4 6	Open country within a goldfield. On leave of absence for six weeks. No cadet.			
John Langmuir. Waipori, Teviot, Maungatua, Glenkenich, Cairnhill, and Benger	950	2½	9 17 11	8,181	45	1/0	409 1 0	..	..	..	..	..	..	..	977	21	5/2¾	254 3 0	..	..	..	..	37 12 0	757 17 5	Partly bush country, very rough. Cadet (new from office) four months assisting.			
E. H. Wilmot. Bannockburn, Shotover, Middle Wakatipu, Skipper's, and Cardrona	..	..	..	229	6	3/10	44 0 0	..	..	..	..	..	..	..	1,010	26	7/11½	402 2 6	..	..	..	..	272 5 4	738 14 11	Within a goldfield; open country and very rough. Spotting surveys very much scattered. No cadet.			
D. M. Calder. Kurow, Longslip, Moe-raki, Awamoko, and Marewhenua	..	..	..	4,592	30	2/	457 1 3	16	2	2 3 0	4 6 0	..	..	..	156	3	2/9½	21 12 2	..	..	..	..	36 19 0	483 11 4	Bush and open country, over a wide field; therefore expensive. 1,160 acres of Native surveys well advanced. No cadet.			
W. D. R. McCurdie. Catlin's, Glenomaru, Woodland, and Warepa	..	..	..	4,749	44	2/	476 5 0	..	..	..	..	..	..	..	..	..	..	..	6-20	9 0 4	55 18 0	..	80 2 0	590 7 8	Thick bush, and very wet.			
Contract, G. Mackenzie. Waikouaiti ..	30,950	2	259 17 11	20,015	150	1/6½	1,577 11 0	30½	60	0 15 11	47 16 0	..	..	..	3,615	107	5/9½	1,045 17 8	46-20	9 5 7	428 14 8	..	758 15 3	4,111 11 8	Partly bush and hilly.			
Fees. R. Hay. Waihemo ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	1	8/6½	9 3 0	..	..	..	..	..	..		..		
G. Mackenzie. Maungatua and Glenomaru	..	..	..	125	2	4/7½	28 17 0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..		
L. O. Beal, jun. Blackstone ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	1	4/7½	6 19 0	..	..	..	..	..	..		..		
H. Maitland. Otamatakau ..	..	..	..	52	2	6/6	16 18 0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..		
Means and totals	30,950	2	259 17 11	20,192	154	1/7½	1,623 6 0	30½	60	0 15 11	47 16 0	2,999	101	1/0½	152 0 0	3,667	109	5/9½	1,061 19 8	46-95	9 7 1½	439 5 8	40 0 0	753 15 3	4,314 2 8			