

1943
NEW ZEALAND

DEPARTMENT OF LANDS AND SURVEY SURVEYS

(ANNUAL REPORT ON)

Presented to both Houses of the General Assembly by Command of His Excellency

THE SURVEYOR-GENERAL to the Hon. the MINISTER OF LANDS,

SIR,—

Wellington, 1st June, 1943.

I have the honour to present herewith the report on survey operations for the year ending 31st March, 1943.

I have, &c.,

H. E. WALSHE,
Surveyor-General.

The Hon. the Minister of Lands.

REPORT

THE continuation of the war has resulted in a further decrease of the Civil work carried out by the Department. The tables appended show that the amount of routine field-work carried out is now about one-third that of pre-war years and of office-work about one-half; even in this latter, however, the circumstances due to war account for a large proportion of the work returned. On the other hand, the total work carried out has increased greatly, the field-work this year being double that of last year and two and a quarter times that of pre-war.

Field-work.—Eighty-two per cent. of this was directly war work of an urgent nature and of which details cannot be released for publication at the present time. The balance is set out in Table 1, the costs shown comparing very favourably with past years. Included in the item "Other work" are boundary location and road-line surveys, £1,974; investigation surveys, £133; maintenance of standard surveys, £57; Police Court surveys, £180; reports, leave, &c., £792. During the year aerial photography of approximately 7,250 square miles was carried out for the Department's mapping programme.

Office-work.—Civil work dropped approximately 40 per cent. on that of last year, but this was more than offset by the increase in work for the Services. This is shown in Table 3. Table 4 shows that the number of saleable lots in town schemes submitted have dropped nearly 50 per cent. The percentage of reserves to saleable area is 6.2 per cent., but as the return includes slight amendments to approved schemes which have already provided reserves, the percentage would be increased somewhat if these were excluded. Tables 5 and 6 are analyses of the salary expenditure on various classes of work in each district. A comparison of these tables with similar ones in pre-war years will show the large increase in "mapping" due to war and the consequent decreases in routine work such as "records," "diagrams," and "investigations."

Tidal Analysis.—No tidal analyses were made, but predictions for the seven standard ports were carried out by the Tidal Institute, Liverpool, using harmonic constants supplied by the Department.

Warrants.—During the year 124 warrants for certificates of title and 10 proclamations of road-lines under the Native Land Act, 1931, were dealt with.

Work in Hand.—A full programme of work for the ensuing year is in hand.

Staff.—Those on duty here have been working at high pressure and long hours to deal with the urgency of the work entrusted them, and their zealous work is much appreciated.

Table 1.—SUMMARY OF FIELD-WORK

Class.	Area or Mileage.	Average Cost.	Total Cost.
			£ s. d.
Standard traverses	3 miles ..	£18·33 per mile ..	55 0 0
Topographical survey for settlement	3,100 acres ..	16·56d. per acre ..	213 18 10
Rural survey	10,122 acres ..	3·42s. per acre ..	1,728 13 10
Village and suburban	297 acres ..	33·58s. per acre ..	498 13 8
Town survey	35·2 acres ..	£6·36 per section ..	470 15 1
Native land survey	430 acres ..	6·86s. per acre ..	147 10 1
Native land survey	3,713 acres ..	Cost not available ..	..
Housing survey (section)	216·5 acres ..	£2·53 per section ..	2,197 9 9
Housing survey (topographical)	331 acres ..	25·87d. per acre ..	428 4 1
Road and railway survey	30·3 miles ..	£42·57 per mile ..	1,289 16 8
Other work .. .. .	..	..	4,783 19 4
Total cost of completed work .. .. .	..	..	11,814 1 4

Table 2.—SUMMARY OF MAP SALES AND CREDITS FOR THE YEAR ENDING 31ST MARCH, 1943

Item.	Credits.
	£ s. d. £ s. d.
Sales of lithographs to the public	1,415 18 5
Sales of lithographs to other Departments	923 13 11
Lithographs issued free to other Departments	281 18 6
Lithographs for office use	706 19 0
	3,328 9 10
Sale of publications and plan forms	303 6 2
Search fees	5 4 6
Royalty fees	47 0 0
Total	£3,684 0 6

Table 3.—PRINCIPAL CLASSES OF OFFICE-WORK DONE FROM 1ST APRIL, 1942, TO 31ST MARCH, 1943

District.	Plans placed on Instruments of Title.				Deeds and other Instruments passed.	Plans examined and passed.				Maps for Lithography.	
	Crown.		Native Land.	Land Transfer.		Crown.	Native.	Land Transfer.	Other Departments.	Drawn.	Revised.
	Leases and Licenses, &c.	Freehold.									
Auckland and North Auckland	395	706	168	7,005	4,101	124	23	446	181	19	..
Gisborne	23	..	40	270	258	1	3	19	20	..	..
Hawke's Bay	40	22	70	529	477	10	3	67	23	..	1
Taranaki	42	60	18	478	367	6	4	39	18	2	..
Wellington	168	244	51	2,800	1,537	11	6	194	89	4	..
Marlborough	36	12	6	147	92	1	1	14	5	9	..
Nelson	113	10	..	503	2	10	..	43	10	4	..
Westland	193	24	..	224	179	15	..	16	8	..	..
Canterbury	955	48	..	1,812	943	10	..	121	32	9	..
Otago	239	30	4	1,237	648	24	..	60	17	5	2
Southland	64	28	..	533	363	1	1	26	5	1	..
Head Office .. ..	..	..	..	..	..	..	..	..	..	23	41
Totals	2,268	1,184	357	15,538	8,967	213	41	1,045	408	76	44

Table 4.—SUMMARY OF TOWN SCHEME SUBDIVISIONS DEALT WITH UNDER SECTION 16 OF THE LAND ACT, 1924, FOR THE YEAR ENDING 31ST MARCH, 1943

District.	Number of Plans.	Number of Saleable Lots.	New Roads.			Reserves.			Reserve (Percentage of Saleable Lots).	Saleable Lots.			Total Areas.		
			A.	R.	P.	A.	R.	P.		A.	R.	P.	A.	R.	P.
Auckland and North Auckland	70	508	12	3	20·27	12	0	28·6	6	202	0	12·89	227	0	21·76
Gisborne	4	8	..	..	..	..	..	..	..	4	1	38·42	4	1	38·42
Hawke's Bay	4	55	3	1	20·7	..	..	..	..	17	1	25·2	20	3	05·9
Taranaki	2	24	0	3	18·0	..	..	..	..	10	1	29·95	11	1	7·95
Wellington	19	190	4	1	33·83	9	3	36·0	13	74	2	25·8	89	0	15·63
Marlborough	3	10	0	0	0·6	..	..	..	..	5	1	15·43	5	1	16·03
Nelson	7	53	1	3	27·6	0	2	6·3	2·5	20	0	20·2	22	2	14·1
Westland	5	31	0	3	8·9	0	0	32·0	3	8	1	2·9	9	1	3·8
Canterbury	20	114	1	1	35·75	1	2	39·7	3·5	50	1	18·6	53	2	14·05
Otago	3	10	0	0	0·5	..	..	..	..	2	2	13·4	2	2	13·9
Southland	1	2	..	..	..	..	..	..	..	1	2	16·8	1	2	16·8
Totals	138	1,005	25	3	06·15	24	2	22·6	6·2	397	1	19·59	447	3	08·34

Table 5.—GENERAL SUMMARY OF SALARY EXPENDITURE FROM 1ST APRIL, 1942, TO 31ST MARCH, 1943

Item.	(1) Survey.	(2) Plan Preparation.	(3) Plan Examination.	(4) Mapping.	(5) Records.	(6) Diagrams.	(7) Tracings.	(8) Investigation.	(9) General.	(10) Supervision.	Totals.
General	£ s. d. 5,201 13 7	£ s. d. 1,037 14 0	£ s. d. 805 16 1	£ s. d. 1,070 14 9	£ s. d. 2,150 4 2	£ s. d. 676 5 0	£ s. d. 5,199 7 0	£ s. d. 1,398 2 4	£ s. d. 6,799 15 2	£ s. d. 3,261 13 2	£ s. d. 27,601 5 3
Triangulation	£ s. d. 210 9 6	£ s. d. 37 1 3	£ s. d. 419 4 9	£ s. d. 33 19 3	£ s. d. 31 6 8	£ s. d. ..	£ s. d. 32 0 0	£ s. d. 8 6 0	£ s. d. 61 5 9	£ s. d. 2 8 0	£ s. d. 836 1 2
Topographical	£ s. d. 7,601 5 0	£ s. d. 3,387 10 1	£ s. d. 157 19 11	£ s. d. 3,542 16 7	£ s. d. 270 9 7	£ s. d. ..	£ s. d. 394 19 3	£ s. d. ..	£ s. d. 309 12 0	£ s. d. 198 19 3	£ s. d. 15,863 11 8
Standard traverse	£ s. d. 4 11 4	£ s. d. 32 14 8	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 29 12 2	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 66 18 2
Survey maintenance	£ s. d. 14 0 2	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 1 10 5	£ s. d. ..	£ s. d. ..	£ s. d. 15 10 7
Levelling	£ s. d. 23 8 0	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 23 8 0
Inspection and investigation	£ s. d. 106 16 4	£ s. d. 1 11 0	£ s. d. 0 16 5	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 110 12 4
Scheme plans	£ s. d. ..	£ s. d. 3 10 2	£ s. d. 13 1 3	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 152 19 2
Land-development	£ s. d. 22 4 4	£ s. d. ..	£ s. d. 0 14 1	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 22 8 0	£ s. d. 84 19 6	£ s. d. ..	£ s. d. 48 13 0	£ s. d. 116 3 2
Tidal survey	£ s. d. 12 0 0	£ s. d. ..	£ s. d. 18 16 0	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 30 16 0
Native Department	£ s. d. 8 0 0	£ s. d. 47 2 2	£ s. d. 194 15 8	£ s. d. 2 6 9	£ s. d. 29 16 2	£ s. d. 69 14 11	£ s. d. 86 1 11	£ s. d. 849 5 8	£ s. d. 14 15 4	£ s. d. 239 16 1	£ s. d. 1,541 14 8
Lands and Deeds Department	£ s. d. ..	£ s. d. 0 1 2	£ s. d. 2,938 6 5	£ s. d. ..	£ s. d. 158 2 5	£ s. d. 1,535 2 5	£ s. d. 48 12 10	£ s. d. 927 17 9	£ s. d. 856 6 1	£ s. d. 1,514 1 11	£ s. d. 7,978 11 0
Public Works Department	£ s. d. 1,014 11 2	£ s. d. 96 13 6	£ s. d. 552 2 1	£ s. d. ..	£ s. d. ..	£ s. d. 0 9 0	£ s. d. 109 17 0	£ s. d. 118 0 3	£ s. d. 48 0 5	£ s. d. 137 0 2	£ s. d. 2,076 13 7
Housing Department	£ s. d. 166 15 7	£ s. d. 67 17 5	£ s. d. 623 17 11	£ s. d. ..	£ s. d. 0 14 8	£ s. d. 12 14 8	£ s. d. 65 3 10	£ s. d. 47 13 9	£ s. d. 74 10 5	£ s. d. 249 18 9	£ s. d. 1,309 7 0
Other Departments	£ s. d. 25,211 9 11	£ s. d. 1,578 3 10	£ s. d. 1,042 15 10	£ s. d. 4,618 19 9	£ s. d. 78 6 10	£ s. d. 25 2 0	£ s. d. 5,569 1 1	£ s. d. 322 12 9	£ s. d. 51 2 8	£ s. d. 622 8 10	£ s. d. 39,120 3 6
Totals	£ s. d. 39,597 4 11	£ s. d. 6,289 19 3	£ s. d. 6,768 6 5	£ s. d. 9,268 17 1	£ s. d. 2,719 0 6	£ s. d. 2,319 8 0	£ s. d. 11,560 8 10	£ s. d. 3,829 18 3	£ s. d. 8,215 7 10	£ s. d. 6,275 4 2	£ s. d. 96,843 15 3

Table 6.—GENERAL SUMMARY OF SALARY EXPENDITURE IN VARIOUS OFFICES FROM 1ST APRIL, 1942, TO 31ST MARCH, 1943

District.	(1) Survey.	(2) Plan Preparation.	(3) Plan Examination.	(4) Mapping.	(5) Records.	(6) Diagrams.	(7) Tracings.	(8) Investigation.	(9) General.	(10) Supervision.	Totals.
Head Office	£ s. d. 215 1 10	£ s. d. 2,674 8 0	£ s. d. 779 6 6	£ s. d. 2,312 2 1	£ s. d. 786 1 0	£ s. d. 1,016 14 7	£ s. d. 900 17 5	£ s. d. 1,517 3 6	£ s. d. 1,167 4 5	£ s. d. 228 5 3	£ s. d. 9,063 6 6
Auckland and North Auckland	£ s. d. 15,497 4 8	£ s. d. 3,069 10 0	£ s. d. 2,464 14 9	£ s. d. 2,125 4 9	£ s. d. 1,046 15 0	£ s. d. 1,016 14 7	£ s. d. 3,779 9 9	£ s. d. 1,517 3 6	£ s. d. 2,974 11 6	£ s. d. 2,786 13 3	£ s. d. 36,278 1 9
Gisborne	£ s. d. 837 13 1	£ s. d. 53 15 4	£ s. d. 199 2 4	£ s. d. 262 5 4	£ s. d. 62 12 7	£ s. d. 106 18 4	£ s. d. 520 2 9	£ s. d. 203 15 11	£ s. d. 468 16 1	£ s. d. 40 14 9	£ s. d. 2,755 16 6
Hawke's Bay	£ s. d. 1,763 11 0	£ s. d. 45 5 4	£ s. d. 200 4 0	£ s. d. 326 12 4	£ s. d. 37 2 9	£ s. d. 115 13 0	£ s. d. 439 18 11	£ s. d. 239 16 7	£ s. d. 328 19 1	£ s. d. 471 1 8	£ s. d. 3,968 4 8
Taranaki	£ s. d. 1,142 1 8	£ s. d. 15 10 2	£ s. d. 148 11 1	£ s. d. 267 4 5	£ s. d. 107 12 8	£ s. d. 34 10 10	£ s. d. 301 4 5	£ s. d. 266 10 7	£ s. d. 256 19 2	£ s. d. 194 16 7	£ s. d. 2,735 1 7
Wellington	£ s. d. 4,345 0 0	£ s. d. 177 5 11	£ s. d. 1,339 18 5	£ s. d. 486 12 9	£ s. d. 130 1 9	£ s. d. 417 4 11	£ s. d. 1,582 14 8	£ s. d. 1,202 5 7	£ s. d. 1,193 18 11	£ s. d. 1,072 16 10	£ s. d. 11,947 19 9
Marlborough	£ s. d. 3,547 11 4	£ s. d. 83 14 1	£ s. d. 233 6 0	£ s. d. 569 7 0	£ s. d. 101 1 7	£ s. d. 19 11 4	£ s. d. 455 8 7	£ s. d. 7 12 3	£ s. d. 218 5 10	£ s. d. 270 11 1	£ s. d. 5,506 9 1
Nelson	£ s. d. 2,403 2 9	£ s. d. 16 10 0	£ s. d. 212 15 0	£ s. d. 363 5 0	£ s. d. 158 0 0	£ s. d. 57 10 0	£ s. d. 721 10 0	£ s. d. 5 10 0	£ s. d. 209 15 0	£ s. d. 115 0 0	£ s. d. 4,262 17 9
Westland	£ s. d. 451 6 3	£ s. d. 19 9 8	£ s. d. 80 14 10	£ s. d. 1 11 6	£ s. d. 45 18 10	£ s. d. 31 2 4	£ s. d. 352 15 0	£ s. d. 16 6 6	£ s. d. 81 4 9	£ s. d. 59 16 1	£ s. d. 1,140 5 9
Canterbury	£ s. d. 2,654 3 10	£ s. d. 30 6 6	£ s. d. 687 16 5	£ s. d. 1,754 4 8	£ s. d. 87 13 3	£ s. d. 183 0 7	£ s. d. 1,244 6 6	£ s. d. 212 0 7	£ s. d. 719 4 4	£ s. d. 678 12 6	£ s. d. 8,251 9 2
Otago	£ s. d. 2,941 16 4	£ s. d. 79 2 2	£ s. d. 254 5 7	£ s. d. 327 16 1	£ s. d. 131 4 11	£ s. d. 256 5 10	£ s. d. 962 10 8	£ s. d. 142 0 9	£ s. d. 325 4 7	£ s. d. 327 0 8	£ s. d. 5,747 7 7
Southland	£ s. d. 3,798 12 2	£ s. d. 25 2 1	£ s. d. 167 11 6	£ s. d. 472 11 2	£ s. d. 24 16 2	£ s. d. 80 16 3	£ s. d. 299 10 2	£ s. d. 16 16 0	£ s. d. 271 4 2	£ s. d. 29 15 6	£ s. d. 5,186 15 2
Totals	£ s. d. 39,597 4 11	£ s. d. 6,289 19 3	£ s. d. 6,768 6 5	£ s. d. 9,268 17 1	£ s. d. 2,719 0 6	£ s. d. 2,319 8 0	£ s. d. 11,560 8 10	£ s. d. 3,829 18 3	£ s. d. 8,215 7 10	£ s. d. 6,275 4 2	£ s. d. 96,843 15 3

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