

PUBLIC WORKS DEPARTMENT CONSTRUCTION WORKS—continued.

Name of Work.	Nature of Work.	Type of Plant used.	Cost per Cubic Yard.		Saving.	Remarks (including Lead and Useful Data): Time Comparison.
			Hand.	Machine.		
Gisborne - Waikokopu, Bartlett's Section	Loading heavy silt into motor-trucks	Mechanical loader and petrol-driven tractor, with bulldozer	1s. 3d.	5-58d.	Per Cent. 63·3	Considerable waiting-time would be involved by using hand loading, which adds to cost.
Gisborne Aerodrome	Excavating and filling	Mechanical excavator	1s. 5d. to 1s. 6d.	6d. to 8d.	60·0	Actual machine costs against estimated cost by hand shows a saving of £1,651 by machine.
"	Excavating and filling	Diesel tractor angledozzer and scoop	1s. 5d.	5-3d.	70·6	Shows difference of £121 on yard-age to date, 2,500 cubic yards.
Plimmerton coast road	Excavating in clay	Diesel tractor and bulldozer	1s. 9d.	2d.	90·5	..
Invercargill and Gore airports	Construction	Diesel tractor and scoop	3s. 0-8d.	1s. 2-25d.	62·2	Hand labour used at Invercargill and machine at Gore.
Waianakarua Airport	Removing and replacing topsoil, levelling average lead, 8 chains	Diesel tractor and scoop	4s. 1d.	1s. 9d.	57·1	..
Duck Creek drainage scheme	Draining	Diesel crawler drag-line	2s. 8-17d.	8·50	75·0	Actual hand-labour cost against tendered price with machine.
Haast Pass Road and Homer McKerrow Road	Clearing road formation and bush work	Diesel tractor	£9 per lineal chain	£6 8s. per lineal chain	28·8	Hand labour on Homer-McKerrow Road against machine on Haast Pass Road, and machine clearing greater widths
South Island Main Trunk Railway, Wharanui Section	Removing "blue" slip in blue pug	$\frac{1}{2}$ yard by $\frac{3}{4}$ yard Diesel crawler shovels	2s. 9d.	10-21d.	69·7	..
South Island Main Trunk Railway, Kaikoura Section	Excavating mixture of clay and boulders	Diesel shovel, crawler type	2s. 10½d.	15-68d.	55·0	..
Westport - Inangahua Railway, Inangahua end	Excavating clay, shingle, boulders	$\frac{3}{4}$ yard Diesel crawler drag-line excavator	3s. 3d.	1s. 0½d.	68·0	..
Ditto	Excavating rotten rock to spoil ..	$\frac{3}{4}$ yard crawler Diesel excavator ..	3s. 6d.	1s. 0½d.	74·3	..
"	Digging heavy shingle to bank ..	$\frac{3}{4}$ yard Diesel excavator, crawler type	3s. 9d.	1s. 11d.	48·8	20 chains lead.
"	Digging shingle with papa bottom	$\frac{3}{4}$ yard Diesel crawler excavator ..	3s. 6d.	1s. 11½d.	44·0	40 chains lead.
Westport-Karamea Main Highway, crossing elimination	Digging and loading clay	Diesel crawler excavator	5s. 7d.	2s. 6d.	60·7	1 mile haul of spoil for filling bridge approaches.
Karamea River control	Forming river stop-bank, shallow earth cuttings	Tractor and scoop	3s. 6d.	6d.	85·7	Earth from paddocks.
Western Hutt Road	Excavating river-bed	Diesel crawler-type excavator	2s. 1d.	11-7d.	64·7	Actual costs in both cases.
Whirokino Deviation	Excavating peat	$\frac{3}{4}$ yard Diesel excavator, crawler type	2s. 10d.	10-45d.	69·1	Actual costs in both cases.
"	Erection of stop-bank	$\frac{3}{4}$ yard Diesel excavator, crawler type	1s. 11-44d.	8-1d.	65·2	Actual costs.
"	Trimming high batters of filling and removal of bad material	Diesel drag-line, $\frac{3}{4}$ yard crawler type	2s. 0-7d.	7-33d.	70·8	..