Public Works Department Construction Plant.

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Name of Work.	Nature of Work.	Tyne of Plant used.	Cost per Cubic Yard	Yard.	Saving	Remarks (mehding Lead and Useful
		4	Hand.	Machine,	6	Data): Time Comparison.
Waioru-Tokaanu Road	Stripping ballast - pit and exea-	Diesel tractor, carry-all and angle-	6d.	3 <u>‡</u> d.	Per Cent.	:
	Road-formation	Diesel tractor, carry-all and angle-	ls.	4d.	0.55	On 4 chains lead.
Ahurini Lagoon development	Excavating drains and forming	Drag-line (petrol), crawler type	2s. 4½d.	8 <u>\$</u> d.	70.18	:
Kamaka – Spring Creek, crossing elimination	Excavating spoil for filling	g yard Diesel excavator, crawler type	ls. 8d. to 1s. 10d.	5-06d.	2.92	With slip material cost by hand would rise up to 2s. 6d. per
Mussel Point Aerodrome	Excavating and filling and levelling	Diesel tractor and Hamilton car-	2s. to 2s. 6d.	9d. to 11d.	62-5 to 63-3	eubic yard.
Karamea Harbour improvements	Excavating and forming stop-	Diesel tractor and Hamilton car-	2s. 3d. to 2s. 6d.	6d. to 9d.	77-7 to 7-0	:
Auckland-Whangarei Main Highway, Waipu-Kaiwaka Section	banks in inver-site Excavation of spoil for road- formation	rier scoop § yard crawler type Diesel exea- vator	2s. 8d.	2s. 0·718d.	6. FI	Unfavourable conditions for machine, wet weather causing loss
Ohinewai overbridge approaches	Excavation in hard clay for filling	:	3s. 3d.	1s. 6d. (tendered price)	∞. 85	of over one-third total days. Shows actual cost by hand against tendered price for work with
Great South Road Highway con-	Excavation and filling	Diesel crawler excavators and	3s. 0d.	1s. 11d.	36.1	machine. Lead up to 30 chains.
Ramilton-Rotorua S.H.	Excavation and filling (material mostly rhyolite)	mecnanical scrapers	4s. 6d.	2s. 8d. (tendered price)	1.04	Shows actual cost by hand against tendered price for work with
Birkenhead – Maungaturoto S.H.,	Excavation in heavy clay material	Diesel crawler excavator	2s. 8d.	Is. 3-4d.	0-96	machine. Both actual costs on same job.
Taupiri drainage scheme	Excavating Rototuna drain	Diesel § yard crawler drag-line	1s. 10d. to 2s. (basic rate, 16s. per day)	9d.	s-09	Narrow drain, 2 ft. to 3 ft. water, hand excavating did not take
: :	Excavating Komakorau Stream Excavating Tauhei Stream	Diesel § yard crawler drag-line Petrol crawler drag-line excavator	1s. 6d. 1s. 2-25d. to 1s. 10d.	7d. 6-6d. to 6-63d.	61.1 38.8	out botton, while machine did. Block cuttings in wide stream. Obsolete type of machines.
	Excavating Upper Mangawara	Steam drag-line crawler excavator	(basic rate, 9s. per day) ls.	10d.	16.7	Machine cost high owing to flood
Gisborne-Waikokopu Railway, Ko- puawhara Section	Excavation in hard sandstone underlying stiff rubble and clay	Diesel crawler-type shovel, $\frac{2}{4}$ yard bucket	(basic rate, as, per day) 3s. 1d.	1s. 6d.	₹.00	and breakdown. Machine is doing job in a quarter of the time required by hand
Gisborne – Waikokopu, Bartlett's Section	Excavation in heavy clay and papa	$\frac{2}{4}$ yard Diesel crawler shovel type	2s. 6d.	ls. 6·24d.	40.0	Machine will complete job in one-third of the time required by
Ditto	Excavation in heavy, wet clay and swamp soil	‡ yard Diescl crawler drag-line	1s. 2d.	6.3d.	57-1	hand tabour. Machine completed job in half the time (including double handling of one-fifth of total spoil) required by manual methods.