

TABLE VI.—FUEL-CONSUMPTION LINE A 1—*continued*.

Miles.	500-, 700-, 1,000-train Traffic.				340-, 477-, 681-train Traffic.	
	Grade, Per Cent.	Speed.	Resistance, One Train.	Mile-pounds = R.M.	Resistance, One Train.	Mile-pounds = R.M.
0·047	2·27	12	11,865	557	16,880	794
0·372	2·27	12	11,865	4,400	16,880	6,280
0·496	1·67	12	9,115	4,519	12,920	6,410
	R.M., Bealey to Summit ...			9,476	..	18,484
8·768	(Total length of line.)					
Total R.M. uphill	...	...	...	(225,803)	...	(318,634)
Equivalent R.M. downhill (10 per cent.)	...		...	22,580	...	31,863
Total equivalent R.M., one round trip	...		...	249,004	...	351,376
Cost of fuel = R.M. ÷ 215,384·6 = £1·155 per round trip.					Cost of fuel = R.M. ÷ 215,384·6 = £1·63 per round trip.	

TABLE VII.—FUEL-CONSUMPTION, LINE A 2.

Miles.	500 , 700-, 1,000-train Traffic.				340-, 477-, 681-train Traffic.	
	Grade, Per Cent.	Speed.	Resistance, One Train.	Mile-pounds = R.M.	Resistance, One Train.	Mile-pounds = R.M.
0·975	Same as B 3			20,755	Same as B 3	29,202
0·460	3·33	10	30,150	13,880	42,700	19,650
5·964	3·03	12	27,650	165,000	39,100	233,500
0·205	2·88	12	26,450	5,420	37,350	7,650
0·090	0·43	12	6,030	543	8,540	768
(1·443)	0·31	8·5-12	*5,030	7,170	*7,120	10,280
	Total R.M., Otira to Summit ...			212,768	...	301,050
0·182	Summit level	12	2,450	446	3,460	630
(0·182)	Summit level	12	1,365	249	1,935	352
	R.M., both ways on summit level			695	...	982
0·868	R.M., Bealey to summit, same as A 1			8,919	Same as A 1	12,690
8·744	(Total length of line.)					
Total R.M. uphill	...	...	...	(221,687)	...	(313,740)
Equivalent R.M. downhill (10 per cent.)	...		...	22,169	...	31,374
Total equivalent R.M., one round trip	...		...	244,551	...	346,096
Cost of fuel = R.M. ÷ 215,384·6 = £1·135 per round trip.					Cost of fuel = R.M. ÷ 215,384·6 = £1·605 per round trip.	

* Resistance due to curvature.