

TABLE XXIV.—ELEMENTS FOR SACCARDO TUNNEL VENTILATING APPARATUS.

Line.	Length of Tunnel.	Area of Tunnel, Cross-section.	V.,* in Feet per Minute.	R.	S., † in Feet per Minute.	Area of Outlet.	Discharge per Minute.
	Ft.						Cubic Feet.
A ...	31,680	200	1,500	9.7511	14,627	17.09	250,000
A 1 ...	25,941	200	1,500	8.834	13,251	18.86	250,000
A 2 ...	26,337	200	1,500	8.9003	13,351	18.73	250,000
A 3 ...	29,373	200	1,500	9.3932	14,090	17.743	250,000
A 4 ...	27,777	200	1,500	9.1710	13,756	18.195	250,000
B 1 ...	17,952	200	1,500	7.3699	11,055	22.61	250,000
B 2 ...	17,952	200	1,500	7.3699	11,055	22.61	250,000
B 3 ...	27,952	200	1,500	7.3699	11,055	22.61	250,000

* V= Velocity of air-current in tunnel.
† S= Velocity at outlet of nozzle.

TABLE XXV.—COST OF WORKING VENTILATING APPARATUS FOR SUMMIT TUNNELS.

Line.	Tunnel-length.		Trains per Annum in each Direction.											
			340.		477.		500.		681.		700.		1,000.	
			Train-miles.	Cost.	Train-miles.	Cost.	Train-miles.	Cost.	Train-miles.	Cost.	Train-miles.	Cost.	Train-miles.	Cost.
A	Miles. 6.0	Time running ..	4,080	287.4	5,724	403.1	6,000	422.5	8,172	575.4	8,400	591.6	12,000	845.1
		Time standing ..	20,920	444.5	19,276	410.0	19,000	404.0	16,828	357.6	16,600	353	13,000	276.2
		Cost of working ..	..	731.9	..	813.1	..	826.5	..	933.0	..	944.6	..	1,121.3
A 1	4.913	Time running ..	3,341	235.2	4,687	330.1	4,913	345.5	6,692	471	6,878	484	9,826	692
		Time standing ..	21,659	460	20,313	431.9	20,087	427	18,308	389	18,122	384.5	15,174	323
		Cost of working ..	..	695.2	..	762	..	772.5	..	860	..	868.5	..	1,015
A 2	4.988	Time running ..	3,392	238.5	4,759	335	4,988	351	6,794	478.5	6,983	492	9,976	702
		Time standing ..	21,608	459	20,241	430	20,012	425	18,206	387	18,017	383	15,024	319
		Cost of working ..	..	697.5	..	765	..	776	..	865.5	..	875	..	1,021
A 3	5.563	Time running ..	3,783	266.4	5,307	373.5	5,563	392	7,577	533	7,788	548	11,126	785
		Time standing ..	21,217	451	19,693	418.5	19,437	413	17,423	370	17,212	365.5	13,874	295
		Cost of working ..	..	714.4	..	792.0	..	805	..	903	..	913.5	..	1,080
A 4	5.30	Time running ..	3,604	253.5	5,056	355	5,300	373	7,218	507	7,420	522	10,600	746
		Time standing ..	21,396	454.5	19,944	434	19,700	418.5	17,782	378	17,580	374	14,400	306
		Cost of working ..	..	708.0	..	779	..	791.5	..	885	..	896	..	1,052
B 1, B 2,	3.40	Time running ..	2,310	162.7	3,240	228.2	3,400	239.5	4,640	326.5	4,760	335	6,800	479
		Time standing ..	22,690	482.0	21,760	462	21,600	459	20,360	433.0	20,240	430	18,200	386.5
B 3		Cost of working ..	..	644.7	..	690.2	..	698.5	..	759.5	..	765	..	865.5

TABLE XXVI.—COMPARATIVE ANNUAL COST OF WORKING, IN POUNDS STERLING.

Item.	Line A.	Line A 1.	Line A 2.	Line A 3.	Line A 4.	Line B 1.	Line B 2.	Line B 3.
500 TRAINS EACH WAY.								
Motive power ..	1387.75	1447.45	1429.3	1427.05	1408.7	1573	1574.6	1585.85
Renewals and repairs to cars ..	166	182.5	175.5	170	163	217.5	220.5	225
Maintenance of way ..	1865.5	1762	1759	1819.5	1771.5	1741.5	1726.5	1774
Ventilation of summit tunnel ..	826.5	772.5	776	805	791.5	698.5	698.5	698.5
Total ..	4245.75	4164.45	4139.8	4221.55	4134.7	4230.5	4220.1	4283.35
700 TRAINS EACH WAY.								
Motive power ..	1729.45	1812.93	1787.32	1783.87	1758.48	1988.81	1991.64	2007.79
Renewals and repairs to cars ..	232.4	255.5	245.7	238	228.2	304.5	308.7	315
Maintenance of way ..	2611.7	2466.8	2462.6	2547.3	2480.1	2438.1	2417.1	2483.6
Ventilation of summit tunnel ..	944.6	868.5	875	913.5	896	765	765	765
Total ..	5518.15	5403.73	5370.62	5482.67	5362.78	5496.41	5482.44	5571.39