

Multimodalways Railway Turnpike Provision Calculations

Variable Administrative Costs, 10 Route Miles, Single Track

Draft 8-31-2009

	Case 1 0 Annual Tons	Case 2 5K Annual Tons	Case 3 10K Annual Tons	Case 4 25K Annual Tons	Case 5 50K Annual Tons	Case 6 100K Annual Tons	Case 7 250K Annual Tons	Case 8 500K Annual Tons	Case 9 1M Annual Tons
Total Annual Network Ton-Miles									
Annual Tonnage	0	5,000	10,000	25,000	50,000	100,000	250,000	500,000	1,000,000
Train Tonnage	0	1000	1000	1000	1000	1000	1000	1000	1000
# Trains	0	5	10	25	50	100	250	500	1000
Trip Distance	10	10	10	10	10	10	10	10	10
Total Ton-Miles	0	50,000	100,000	250,000	500,000	1,000,000	2,500,000	5,000,000	10,000,000
Total Network Track Miles	10	10	10	10	10	10	10	10	10
Annual MOW Amount	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Annual Network MOW	\$10,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Tons per Mile Assessment for MOW	\$0.000000	\$1.000000	\$0.500000	\$0.200000	\$0.100000	\$0.050000	\$0.020000	\$0.010000	\$0.005000
Administration Expenses									
MOW % of All Expenses									
50	\$20,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
33	\$30,303	\$151,515	\$151,515	\$151,515	\$151,515	\$151,515	\$151,515	\$151,515	\$151,515
25	\$40,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
10	\$100,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
5	\$200,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
2.5	\$400,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
1	\$1,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
Tons per Mile Assessment For All Expenses									
MOW % of All Expenses									
50		\$2.0000	\$1.0000	\$0.4000	\$0.2000	\$0.1000	\$0.0400	\$0.0200	\$0.0100
33		\$3.0303	\$1.5152	\$0.6061	\$0.3030	\$0.1515	\$0.0606	\$0.0303	\$0.0152
25		\$4.0000	\$2.0000	\$0.8000	\$0.4000	\$0.2000	\$0.0800	\$0.0400	\$0.0200
10		\$10.0000	\$5.0000	\$2.0000	\$1.0000	\$0.5000	\$0.2000	\$0.1000	\$0.0500
5		\$20.0000	\$10.0000	\$4.0000	\$2.0000	\$1.0000	\$0.4000	\$0.2000	\$0.1000
2.5		\$40.0000	\$20.0000	\$8.0000	\$4.0000	\$2.0000	\$0.8000	\$0.4000	\$0.2000
1		\$100.0000	\$50.0000	\$20.0000	\$10.0000	\$5.0000	\$2.0000	\$1.0000	\$0.5000

Multimodalways Railway Turnpike Provision Calculations

Variable Administrative Costs, 200 Route Miles, Single Track

Draft 8-31-2009

	Case 1 1M Annual Tons	Case 2 2.5M Annual Tons	Case 3 5M Annual Tons	Case 4 10M Annual Tons	Case 5 25M Annual Tons	Case 6 50M Annual Tons	Case 7 100M Annual Tons
Total Annual Network Ton-Miles							
Annual Tonnage	1,000,000	2,500,000	5,000,000	10,000,000	25,000,000	50,000,000	100,000,000
Train Tonnage	10000	10000	10000	10000	10000	10000	10000
# Trains	100	250	500	1000	2500	5000	10000
Trip Distance	200	200	200	200	200	200	200
Total Ton-Miles	200,000,000	500,000,000	1,000,000,000	2,000,000,000	5,000,000,000	10,000,000,000	20,000,000,000
Total Network Track Miles	200	200	200	200	200	200	200
Annual MOW Amount	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Annual Network MOW	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
Tons per Mile Assessment for MOW	\$0.025000	\$0.010000	\$0.005000	\$0.002500	\$0.001000	\$0.000500	\$0.000250
Administration Expenses							
MOW % of All Expenses							
50	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
25	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000
10	\$50,000,000	\$50,000,000	\$50,000,000	\$50,000,000	\$50,000,000	\$50,000,000	\$50,000,000
5	\$100,000,000	\$100,000,000	\$100,000,000	\$100,000,000	\$100,000,000	\$100,000,000	\$100,000,000
2.5	\$200,000,000	\$200,000,000	\$200,000,000	\$200,000,000	\$200,000,000	\$200,000,000	\$200,000,000
1	\$500,000,000	\$500,000,000	\$500,000,000	\$500,000,000	\$500,000,000	\$500,000,000	\$500,000,000
Tons per Mile Assessment For All Expenses							
MOW % of All Expenses							
50	\$0.0500	\$0.0200	\$0.0100	\$0.0050	\$0.0020	\$0.0010	\$0.0005
25	\$0.1000	\$0.0400	\$0.0200	\$0.0100	\$0.0040	\$0.0020	\$0.0010
10	\$0.2500	\$0.1000	\$0.0500	\$0.0250	\$0.0100	\$0.0050	\$0.0025
5	\$0.5000	\$0.2000	\$0.1000	\$0.0500	\$0.0200	\$0.0100	\$0.0050
2.5	\$1.0000	\$0.4000	\$0.2000	\$0.1000	\$0.0400	\$0.0200	\$0.0100
1	\$2.5000	\$1.0000	\$0.5000	\$0.2500	\$0.1000	\$0.0500	\$0.0250

Multimodalways Railway Turnpike Provision Calculations

Variable Administrative Costs, 200 Route Miles, Double Track

Draft 8-31-2009

	Case 1 1M Annual Tons	Case 2 2.5M Annual Tons	Case 3 5M Annual Tons	Case 4 10M Annual Tons	Case 5 25M Annual Tons	Case 6 50M Annual Tons	Case 7 100M Annual Tons
Total Annual Network Ton-Miles							
Annual Tonnage	1,000,000	2,500,000	5,000,000	10,000,000	25,000,000	50,000,000	100,000,000
Train Tonnage	10000	10000	10000	10000	10000	10000	10000
# Trains	100	250	500	1000	2500	5000	10000
Trip Distance	200	200	200	200	200	200	200
Total Ton-Miles	200,000,000	500,000,000	1,000,000,000	2,000,000,000	5,000,000,000	10,000,000,000	20,000,000,000
Total Network Track Miles	400	400	400	400	400	400	400
Annual MOW Amount	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Annual Network MOW	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
Tons per Mile Assessment for MOW	\$0.050000	\$0.020000	\$0.010000	\$0.005000	\$0.002000	\$0.001000	\$0.000500
Administration Expenses							
MOW % of All Expenses							
50	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000
25	\$40,000,000	\$40,000,000	\$40,000,000	\$40,000,000	\$40,000,000	\$40,000,000	\$40,000,000
10	\$100,000,000	\$100,000,000	\$100,000,000	\$100,000,000	\$100,000,000	\$100,000,000	\$100,000,000
5	\$200,000,000	\$200,000,000	\$200,000,000	\$200,000,000	\$200,000,000	\$200,000,000	\$200,000,000
2.5	\$400,000,000	\$400,000,000	\$400,000,000	\$400,000,000	\$400,000,000	\$400,000,000	\$400,000,000
1	\$1,000,000,000	\$1,000,000,000	\$1,000,000,000	\$1,000,000,000	\$1,000,000,000	\$1,000,000,000	\$1,000,000,000
Tons per Mile Assessment For All Expenses							
MOW % of All Expenses							
50	\$0.1000	\$0.0400	\$0.0200	\$0.0100	\$0.0040	\$0.0020	\$0.0010
25	\$0.2000	\$0.0800	\$0.0400	\$0.0200	\$0.0080	\$0.0040	\$0.0020
10	\$0.5000	\$0.2000	\$0.1000	\$0.0500	\$0.0200	\$0.0100	\$0.0050
5	\$1.0000	\$0.4000	\$0.2000	\$0.1000	\$0.0400	\$0.0200	\$0.0100
2.5	\$2.0000	\$0.8000	\$0.4000	\$0.2000	\$0.0800	\$0.0400	\$0.0200
1	\$5.0000	\$2.0000	\$1.0000	\$0.5000	\$0.2000	\$0.1000	\$0.0500

Multimodalways Railway Turnpike Provision Calculations

Variable Administrative Costs, 1200 Route Miles, Double Track

Draft 8-31-2009

	Case 1 1M Annual Tons	Case 2 2.5M Annual Tons	Case 3 5M Annual Tons	Case 4 10M Annual Tons	Case 5 25M Annual Tons	Case 6 50M Annual Tons	Case 7 100M Annual Tons	Case 8 200M Annual Tons
Total Annual Network Ton-Miles								
Annual Tonnage	1,000,000	2,500,000	5,000,000	10,000,000	25,000,000	50,000,000	100,000,000	200,000,000
Train Tonnage	10000	10000	10000	10000	10000	10000	10000	10000
# Trains	100	250	500	1000	2500	5000	10000	20000
Trip Distance	1200	1200	1200	1200	1200	1200	1200	1200
Total Ton-Miles	1,200,000,000	3,000,000,000	6,000,000,000	12,000,000,000	30,000,000,000	60,000,000,000	120,000,000,000	240,000,000,000
Total Network Track Miles	2400	2400	2400	2400	2400	2400	2400	2400
Annual MOW Amount	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Annual Network MOW	\$60,000,000	\$60,000,000	\$60,000,000	\$60,000,000	\$60,000,000	\$60,000,000	\$60,000,000	\$60,000,000
Tons per Mile Assessment for MOW	\$0.050000	\$0.020000	\$0.010000	\$0.005000	\$0.002000	\$0.001000	\$0.000500	\$0.000250
Administration Expenses								
MOW % of All Expenses								
50	\$120,000,000	\$120,000,000	\$120,000,000	\$120,000,000	\$120,000,000	\$120,000,000	\$120,000,000	\$120,000,000
25	\$240,000,000	\$240,000,000	\$240,000,000	\$240,000,000	\$240,000,000	\$240,000,000	\$240,000,000	\$240,000,000
10	\$600,000,000	\$600,000,000	\$600,000,000	\$600,000,000	\$600,000,000	\$600,000,000	\$600,000,000	\$600,000,000
5	\$1,200,000,000	\$1,200,000,000	\$1,200,000,000	\$1,200,000,000	\$1,200,000,000	\$1,200,000,000	\$1,200,000,000	\$1,200,000,000
2.5	\$2,400,000,000	\$2,400,000,000	\$2,400,000,000	\$2,400,000,000	\$2,400,000,000	\$2,400,000,000	\$2,400,000,000	\$2,400,000,000
1	\$6,000,000,000	\$6,000,000,000	\$6,000,000,000	\$6,000,000,000	\$6,000,000,000	\$6,000,000,000	\$6,000,000,000	\$6,000,000,000
Tons per Mile Assessment For All Expenses								
MOW % of All Expenses								
50	\$0.1000	\$0.0400	\$0.0200	\$0.0100	\$0.0040	\$0.0020	\$0.0010	\$0.0005
25	\$0.2000	\$0.0800	\$0.0400	\$0.0200	\$0.0080	\$0.0040	\$0.0020	\$0.0010
10	\$0.5000	\$0.2000	\$0.1000	\$0.0500	\$0.0200	\$0.0100	\$0.0050	\$0.0025
5	\$1.0000	\$0.4000	\$0.2000	\$0.1000	\$0.0400	\$0.0200	\$0.0100	\$0.0050
2.5	\$2.0000	\$0.8000	\$0.4000	\$0.2000	\$0.0800	\$0.0400	\$0.0200	\$0.0100
1	\$5.0000	\$2.0000	\$1.0000	\$0.5000	\$0.2000	\$0.1000	\$0.0500	\$0.0250

Multimodalways Railway Turnpike Provision Calculations

Variable Administrative Costs, 1200 Route Miles, Triple Track

Draft 8-31-2009

	Case 1 1M Annual Tons	Case 2 2.5M Annual Tons	Case 3 5M Annual Tons	Case 4 10M Annual Tons	Case 5 25M Annual Tons	Case 6 50M Annual Tons	Case 7 100M Annual Tons	Case 8 200M Annual Tons
Total Annual Network Ton-Miles								
Annual Tonnage	1,000,000	2,500,000	5,000,000	10,000,000	25,000,000	50,000,000	100,000,000	200,000,000
Train Tonnage	10000	10000	10000	10000	10000	10000	10000	10000
# Trains	100	250	500	1000	2500	5000	10000	20000
Trip Distance	1200	1200	1200	1200	1200	1200	1200	1200
Total Ton-Miles	1,200,000,000	3,000,000,000	6,000,000,000	12,000,000,000	30,000,000,000	60,000,000,000	120,000,000,000	240,000,000,000
Total Network Track Miles	3600	3600	3600	3600	3600	3600	3600	3600
Annual MOW Amount	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Annual Network MOW	\$90,000,000	\$90,000,000	\$90,000,000	\$90,000,000	\$90,000,000	\$90,000,000	\$90,000,000	\$90,000,000
Tons per Mile Assessment for MOW	\$0.075000	\$0.030000	\$0.015000	\$0.007500	\$0.003000	\$0.001500	\$0.000750	\$0.000375
Administration Expenses								
MOW % of All Expenses								
50	\$180,000,000	\$180,000,000	\$180,000,000	\$180,000,000	\$180,000,000	\$180,000,000	\$180,000,000	\$180,000,000
25	\$360,000,000	\$360,000,000	\$360,000,000	\$360,000,000	\$360,000,000	\$360,000,000	\$360,000,000	\$360,000,000
10	\$900,000,000	\$900,000,000	\$900,000,000	\$900,000,000	\$900,000,000	\$900,000,000	\$900,000,000	\$900,000,000
5	\$1,800,000,000	\$1,800,000,000	\$1,800,000,000	\$1,800,000,000	\$1,800,000,000	\$1,800,000,000	\$1,800,000,000	\$1,800,000,000
2.5	\$3,600,000,000	\$3,600,000,000	\$3,600,000,000	\$3,600,000,000	\$3,600,000,000	\$3,600,000,000	\$3,600,000,000	\$3,600,000,000
1	\$9,000,000,000	\$9,000,000,000	\$9,000,000,000	\$9,000,000,000	\$9,000,000,000	\$9,000,000,000	\$9,000,000,000	\$9,000,000,000
Tons per Mile Assessment For All Expenses								
MOW % of All Expenses								
50	\$0.1500	\$0.0600	\$0.0300	\$0.0150	\$0.0060	\$0.0030	\$0.0015	\$0.00075
25	\$0.3000	\$0.1200	\$0.0600	\$0.0300	\$0.0120	\$0.0060	\$0.0030	\$0.00150
10	\$0.7500	\$0.3000	\$0.1500	\$0.0750	\$0.0300	\$0.0150	\$0.0075	\$0.00375
5	\$1.5000	\$0.6000	\$0.3000	\$0.1500	\$0.0600	\$0.0300	\$0.0150	\$0.00750
2.5	\$3.0000	\$1.2000	\$0.6000	\$0.3000	\$0.1200	\$0.0600	\$0.0300	\$0.01500
1	\$7.5000	\$3.0000	\$1.5000	\$0.7500	\$0.3000	\$0.1500	\$0.0750	\$0.03750