

Appendix.4. Ohio Rail Development Commission Benefit Cost Calculator

Benefit Worksheet						
I - Project Information						Notes
Applicant Name						*Yellow Box Indicates ORDC Input
Application Date						
Project Location						
Project Specific Title (1 to 2 line description)						
Project Cost						\$0.00
Total Amount of Grant Requested						\$0.00
Total Amount of Loan Requested						\$0.00
II - Commodity Data						
1. New or Diverted Carloads						
STCC Code	Rail Factor	Type of Service	# Carloads (A)	# Total Miles (B)	# OH Miles (C)	Tons / Car (D)
26	0.035	3. Other Manifest	50	500	125	100
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
Totals			50			
2. Existing Carloads						
STCC Code	Rating Factor	Type of Service	# Carloads (A)	# Total Miles (B)	# OH Miles (C)	Tons / Car (D)
26	0.035	3. Other Manifest	200	500	125	100
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
0	0	0	0			0
Totals			200			
1. New or Diverted Carloads						
Total Tons (E) (A*D)	Total Ton - Miles (F) (B*E)	Total OH Ton - Miles (G) (C*E)	Truck Factor (H)	Equivalent # Trucks (I) (E/H)	Total Truck Miles (OH) (C*I)	Total Rail Cost
5,000	2,500,000	625,000	15.17	330	41,200	\$87,500.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
5,000	2,500,000	625,000		330	41,200	\$87,500

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2. Existing Carloads						
Total Tons (E) (A*D)	Total Ton - Miles (F) (B*E)	Total OH Ton - Miles (G) (C*E)	Truck Factor (H)	Equivalent # Trucks (I) (E/H)	Total Truck Miles (OH) (C*I)	Total Rail Cost
20,000	10,000,000	2,500,000	15.17	1,318	164,799	\$350,000.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
0	0	0	0.00	0	0	\$0.00
20,000	10,000,000	2,500,000		1,318	164,799	\$350,000.00

III - Employment Data						
	# Annual Jobs	Average Salary	Total Wages	Total Job Impact	Total Wage Impact	
1. Railroad Employment Gained	0	\$0.00	\$0.00	0.0	\$0	
2. Industry Employment Gained	0	\$0.00	\$0.00	0.0	\$0	
3. Project Construction Employment Person-Hours (As Provided)	0.360576923	\$0.00	\$0.00	0.6	\$0	
4. Project Construction Employment Person-Hours (Based on Project Cost) *Must enter Avg. Salary	0		\$0.00	0.0	\$0	

IV. Infrastructure Data				
	Current # of Miles	Current % of Total Miles	Post-Project # of Miles	Post - Project % of Total Miles
1. Excepted / Total	0	#DIV/0!	0	#DIV/0!
2. Class 1 / Total	0	#DIV/0!	0	#DIV/0!
3. Class 2 / Total	0	#DIV/0!	0	#DIV/0!
4. Class 3+ / Total	0	#DIV/0!	0	#DIV/0!
5. Actual miles of 286K / Total	0	#DIV/0!	0	#DIV/0!

Project Location Impacts				
	Current # of Miles	Current % of Total Miles	Post-Project # of Miles	Post - Project % of Total Miles
1. Excepted / Total	0	#DIV/0!	0	#DIV/0!
2. Class 1 / Total	0	#DIV/0!	0	#DIV/0!
3. Class 2 / Total	0	#DIV/0!	0	#DIV/0!
4. Class 3+ / Total	0	#DIV/0!	0	#DIV/0!
5. Actual miles of 286K / Total	0	#DIV/0!	0	#DIV/0!

V - Shipper Transportation Cost Data		
	New	Existing
1. Truck Costs	\$257,500.00	\$1,030,000.00
2. Rail Costs	\$87,500.00	\$350,000.00
3. Projected Shipper Transportation Cost Savings	\$170,000.00	\$680,000.00

VI - Highway Cost Savings Data - Project Totals (OH)		
	New	Existing
1. Highway Maintenance Costs Savings (OH)	\$3,500.00	\$14,000.00
2. Highway Congestion Cost Savings (OH)	\$1,977.59	\$7,910.35

VII - Highway Safety Data (OH)				
	New	Existing		
1. Reduced # of Trucks	330	1,318		
2. Reduced Fatalities (OH)	0.00231375	0.009255		
3. Value of Reduced Fatalities	\$13,882.50	\$55,530.00		
4. Reduced Injuries (OH)	0.06	0.23		
5. Value of Reduced Injuries	\$5,418.76	\$21,675.05		
VIII - Fuel Usage Data (OH)				
	New	Existing		
1. Fuel Usage - Rail (# Gallons)	1,444	5,775		
2. Fuel Usage - Truck (# Gallons)	8,078	32,314		
3. Fuel Savings (OH) (# Gallons)	6,635	26,539		
4. Value of Fuel Savings	\$0.00	\$0.00		
Please Enter Current Fuel Price				
IX - Environmental Emissions Data (OH)				
	New	New	Existing	Existing
1. Carbon Monoxide Reduction	0.08		0.32	
2. Nitrogen Oxide Reduction	1.14	\$4,555.64	4.56	\$18,222.54
3. Particulate Matter	0.01	\$1,762.93	0.04	\$7,051.71
4. Carbon Dioxide	73.75	\$2,433.77	295.00	\$9,735.07