

COMBINED DUBUQUE-ROCKFORD-CHICAGO INTERCITY RAIL  
AND ROCKFORD-CHICAGO COMMUTER RAIL  
BENEFIT-COST ANALYSIS (2015 \$) - APPENDIX 1

Year	Calendar Year	Capital Costs <sup>1</sup> (Design/Const)	O&M Costs <sup>2</sup>	Farm Crops Production Loss Costs <sup>3</sup>	Ecological Acreage Loss (Project)	Ecological Value Per Acre	Ecological Land Loss Costs <sup>4</sup>	Ecological Acreage Loss Induced Development	Ecological Value Per Acre	Ecological Land Loss Induced Development Costs <sup>4</sup>	AVMT Change <sup>5</sup>	Proportion Auto Traffic	Auto AVMT Change	VMT Value	Auto VMT Benefits <sup>5</sup>	Proportion Heavy Tk	Diesel Bus VMT Increase	VMT Value	Diesel Bus VMT Costs <sup>5</sup>
0	2015	(\$115,312,836)		\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0									
0	2016	(\$115,312,836)		\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0									
1	2017	(\$115,312,836)	(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
2	2018		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
3	2019		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
4	2020		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
5	2021		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
6	2022		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
7	2023		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
8	2024		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
9	2025		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
10	2026		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
11	2027		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
12	2028		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
13	2029		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
14	2030		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
15	2031		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
16	2032		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
17	2033		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
18	2034		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
19	2035		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
20	2036		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
21	2037		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
22	2038		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
23	2039		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
24	2040		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
25	2041		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
26	2042		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
27	2043		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
28	2044		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
29	2045		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
30	2046		(\$13,870,290)	\$0	0	(\$4,141)	\$0	0	(\$2,761)	\$0	-53,533,145	1.00	-53,533,145	(\$0.26)	\$13,961,444	1.00	52,000	(\$10.63)	(\$552,760)
<b>TOTALS</b>		<b>(\$345,938,507)</b>	<b>(\$416,108,700)</b>	<b>\$0</b>			<b>\$0</b>			<b>\$0</b>	<b>-1,605,994,350</b>		<b>-1,605,994,350</b>		<b>\$418,843,326</b>		<b>1,560,000</b>		<b>(\$16,582,800)</b>
<b>3% Discount</b>		<b>(\$326,173,887)</b>	<b>(\$256,257,769)</b>	<b>\$0</b>			<b>\$0</b>			<b>\$0</b>					<b>\$257,941,870</b>				<b>(\$10,212,407)</b>
<b>5% Discount</b>		<b>(\$314,019,914)</b>	<b>(\$193,393,453)</b>	<b>\$0</b>			<b>\$0</b>			<b>\$0</b>					<b>\$194,664,417</b>				<b>(\$7,707,133)</b>
<b>7% Discount</b>		<b>(\$302,615,475)</b>	<b>(\$150,328,977)</b>	<b>\$0</b>			<b>\$0</b>			<b>\$0</b>					<b>\$151,316,925</b>				<b>(\$5,990,923)</b>

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Year	Calendar Year	Train Miles Traveled	Annual Ridership	Auto Drivers Convert to Riding Train	Assumed 20% Drivers Working 1 hr on train	Productivity Rate Per Hour	Increased Worker Productivity <sup>5a</sup>	Auto Noise Value (per VMT)	Auto Noise Benefits <sup>6</sup>	Bus Noise Value (per VMT)	Bus Noise Costs <sup>6</sup>	Train Noise Value (per VMT)	Train Noise Costs <sup>6</sup>	CO <sub>2</sub> Change Auto (MT)	CO <sub>2</sub> Change Train (MT)	CO <sub>2</sub> Change Bus (MT)	CO <sub>2</sub> Value (per MT)	Undiscounted CO <sub>2</sub> Costs @ 3% Avg SCC	NPV CO <sub>2</sub> Costs @ 3% Avg SCC <sup>7</sup> [Undisc/(1.03^A)]
0	2015																		
0	2016																		
1	2017	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$44.71	\$785,055	\$762,189
2	2018	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$45.73	\$802,965	\$756,872
3	2019	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$46.75	\$820,875	\$751,217
4	2020	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$47.76	\$838,609	\$745,094
5	2021	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$48.78	\$856,519	\$738,841
6	2022	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$49.79	\$874,254	\$732,174
7	2023	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$50.81	\$892,164	\$725,411
8	2024	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$51.83	\$910,074	\$718,421
9	2025	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$53.86	\$945,718	\$724,814
10	2026	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$53.86	\$945,718	\$703,703
11	2027	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$54.88	\$963,628	\$696,146
12	2028	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$55.89	\$981,363	\$688,308
13	2029	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$56.91	\$999,273	\$680,456
14	2030	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$57.92	\$1,017,007	\$672,361
15	2031	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$58.94	\$1,034,917	\$664,274
16	2032	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$59.96	\$1,052,827	\$656,087
17	2033	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$60.97	\$1,070,561	\$647,707
18	2034	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$61.99	\$1,088,471	\$639,362
19	2035	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$63.01	\$1,106,381	\$630,954
20	2036	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$64.02	\$1,124,116	\$622,396
21	2037	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$66.05	\$1,159,760	\$623,428
22	2038	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$67.07	\$1,177,670	\$614,617
23	2039	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$68.09	\$1,195,580	\$605,791
24	2040	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$69.10	\$1,213,315	\$596,870
25	2041	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$70.12	\$1,231,225	\$588,040
26	2042	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$71.14	\$1,249,135	\$579,217
27	2043	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$71.14	\$1,249,135	\$562,347
28	2044	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$72.15	\$1,266,869	\$553,719
29	2045	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$73.17	\$1,284,779	\$545,191
30	2046	211,006	1,605,864	1,070,576	214,115	\$25.31	\$5,419,257	(\$0.0145)	\$776,231	(\$0.1475)	(\$7,670)	\$0.9425	(\$198,873)	-19,722	2,156	6.88	\$74.18	\$1,302,514	\$536,618
<b>TOTALS</b>		6,330,180	48,175,931				\$162,577,707		\$23,286,918		(\$230,100)		(\$5,966,195)	-493,040	64,677	206			\$19,762,626
<b>3% Discount</b>							\$100,122,397		\$14,341,093		(\$141,706)		(\$3,674,241)						\$19,762,626
<b>5% Discount</b>							\$75,560,699		\$10,822,983		(\$106,943)		(\$2,772,888)						\$19,762,626
<b>7% Discount</b>							\$58,734,990		\$8,412,943		(\$83,129)		(\$2,155,427)						\$19,762,626

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Year	Calendar Year	NO <sub>x</sub> Change Auto (MT)	NO <sub>x</sub> Change Train (MT)	NO <sub>x</sub> Change Bus (MT)	NO <sub>x</sub> Value (per MT)	NO <sub>x</sub> Costs <sup>8</sup>	PM <sub>10</sub> Change Auto (per MT)	PM <sub>10</sub> Change Train (per MT)	PM <sub>10</sub> Change Bus (per MT)	PM <sub>2.5</sub> Change Auto (per MT)	PM <sub>2.5</sub> Change Train (per MT)	PM <sub>2.5</sub> Change Bus (per MT)	PM Value (per MT)	PM Costs <sup>8</sup>	VOC Change Auto (MT)	VOC Change Train (MT)	VOC Change Bus (MT)	VOC Value (per MT)	VOC Benefits <sup>8</sup>	SO <sub>2</sub> Change Auto (MT)	SO <sub>2</sub> Change Train (MT)	SO <sub>2</sub> Value (per MT)	SO <sub>2</sub> Costs <sup>8</sup>	
0	2015																							
0	2016																							
1	2017	-37.10	37.51	0.77	(\$7,937)	(\$9,389)	-0.24	0.94	0.002	-0.22	0.91	0.001	(\$363,113)	(\$506,692)	-55.35	1.62	0.02	(\$2,014)	\$108,178	-0.38	0.63	(\$46,711)	(\$11,829)	
2	2018	-37.10	35.17	0.77	(\$7,937)	\$9,219	-0.24	0.87	0.002	-0.11	0.84	0.001	(\$363,113)	(\$498,614)	-55.35	1.45	0.02	(\$2,014)	\$108,533	-0.38	0.63	(\$46,711)	(\$11,829)	
3	2019	-37.10	32.82	0.77	(\$7,937)	\$27,828	-0.24	0.77	0.002	-0.09	0.75	0.001	(\$363,113)	(\$432,315)	-55.35	1.23	0.02	(\$2,014)	\$108,959	-0.38	0.63	(\$46,711)	(\$11,829)	
4	2020	-37.10	31.15	0.77	(\$7,937)	\$41,119	-0.24	0.70	0.002	-0.08	0.68	0.001	(\$363,113)	(\$388,115)	-55.35	1.09	0.02	(\$2,014)	\$109,243	-0.38	0.63	(\$46,711)	(\$11,829)	
5	2021	-37.10	29.47	0.77	(\$7,937)	\$54,411	-0.24	0.67	0.002	-0.08	0.65	0.001	(\$363,113)	(\$366,016)	-55.35	1.02	0.02	(\$2,014)	\$109,385	-0.38	0.63	(\$46,711)	(\$11,829)	
6	2022	-37.10	27.80	0.77	(\$7,937)	\$67,703	-0.24	0.60	0.002	-0.07	0.58	0.001	(\$363,113)	(\$321,816)	-55.35	0.95	0.02	(\$2,014)	\$109,527	-0.38	0.63	(\$46,711)	(\$11,829)	
7	2023	-37.10	26.12	0.77	(\$7,937)	\$80,995	-0.24	0.57	0.002	-0.06	0.55	0.001	(\$363,113)	(\$299,717)	-55.35	0.85	0.02	(\$2,014)	\$109,740	-0.38	0.63	(\$46,711)	(\$11,829)	
8	2024	-37.10	24.45	0.77	(\$7,937)	\$94,286	-0.24	0.50	0.002	-0.05	0.49	0.001	(\$363,113)	(\$255,517)	-55.35	0.78	0.02	(\$2,014)	\$109,882	-0.38	0.63	(\$46,711)	(\$11,829)	
9	2025	-37.10	22.78	0.77	(\$7,937)	\$107,578	-0.24	0.47	0.002	-0.05	0.45	0.001	(\$363,113)	(\$233,418)	-55.35	0.71	0.02	(\$2,014)	\$110,024	-0.38	0.63	(\$46,711)	(\$11,829)	
10	2026	-37.10	21.44	0.77	(\$7,937)	\$118,211	-0.24	0.40	0.002	-0.04	0.39	0.001	(\$363,113)	(\$188,528)	-55.35	0.63	0.02	(\$2,014)	\$110,166	-0.38	0.63	(\$46,711)	(\$11,829)	
11	2027	-37.10	20.10	0.77	(\$7,937)	\$128,845	-0.24	0.37	0.002	-0.03	0.36	0.001	(\$363,113)	(\$167,119)	-55.35	0.56	0.02	(\$2,014)	\$110,308	-0.38	0.63	(\$46,711)	(\$11,829)	
12	2028	-37.10	18.76	0.77	(\$7,937)	\$139,478	-0.24	0.33	0.002	-0.03	0.32	0.001	(\$363,113)	(\$145,019)	-55.35	0.53	0.02	(\$2,014)	\$110,379	-0.38	0.63	(\$46,711)	(\$11,829)	
13	2029	-37.10	17.42	0.77	(\$7,937)	\$150,111	-0.24	0.30	0.002	-0.02	0.29	0.001	(\$363,113)	(\$122,919)	-55.35	0.46	0.02	(\$2,014)	\$110,522	-0.38	0.63	(\$46,711)	(\$11,829)	
14	2030	-37.10	16.41	0.77	(\$7,937)	\$158,086	-0.24	0.27	0.002	-0.02	0.26	0.001	(\$363,113)	(\$100,820)	-55.35	0.42	0.02	(\$2,014)	\$110,593	-0.38	0.63	(\$46,711)	(\$11,829)	
15	2031	-37.10	15.41	0.77	(\$7,937)	\$166,061	-0.24	0.23	0.002	-0.01	0.23	0.001	(\$363,113)	(\$78,720)	-55.35	0.39	0.02	(\$2,014)	\$110,664	-0.38	0.63	(\$46,711)	(\$11,829)	
16	2032	-37.10	14.07	0.77	(\$7,937)	\$176,695	-0.24	0.23	0.002	-0.01	0.23	0.001	(\$363,113)	(\$78,720)	-55.35	0.35	0.02	(\$2,014)	\$110,735	-0.38	0.63	(\$46,711)	(\$11,829)	
17	2033	-37.10	13.06	0.77	(\$7,937)	\$184,670	-0.24	0.20	0.002	-0.01	0.19	0.001	(\$363,113)	(\$56,620)	-55.35	0.32	0.02	(\$2,014)	\$110,806	-0.38	0.63	(\$46,711)	(\$11,829)	
18	2034	-37.10	12.06	0.77	(\$7,937)	\$192,645	-0.24	0.20	0.002	-0.01	0.19	0.001	(\$363,113)	(\$56,620)	-55.35	0.28	0.02	(\$2,014)	\$110,877	-0.38	0.63	(\$46,711)	(\$11,829)	
19	2035	-37.10	11.05	0.77	(\$7,937)	\$200,620	-0.24	0.17	0.002	0.00	0.16	0.001	(\$363,113)	(\$34,521)	-55.35	0.25	0.02	(\$2,014)	\$110,948	-0.38	0.63	(\$46,711)	(\$11,829)	
20	2036	-37.10	10.05	0.77	(\$7,937)	\$208,595	-0.24	0.17	0.002	0.00	0.16	0.001	(\$363,113)	(\$34,521)	-55.35	0.25	0.02	(\$2,014)	\$110,948	-0.38	0.63	(\$46,711)	(\$11,829)	
21	2037	-37.10	9.38	0.77	(\$7,937)	\$213,912	-0.24	0.13	0.002	0.00	0.13	0.001	(\$363,113)	(\$12,421)	-55.35	0.21	0.02	(\$2,014)	\$111,019	-0.38	0.63	(\$46,711)	(\$11,829)	
22	2038	-37.10	8.71	0.77	(\$7,937)	\$219,228	-0.24	0.13	0.002	0.00	0.13	0.001	(\$363,113)	(\$12,421)	-55.35	0.21	0.02	(\$2,014)	\$111,019	-0.38	0.63	(\$46,711)	(\$11,829)	
23	2039	-37.10	8.04	0.77	(\$7,937)	\$224,545	-0.24	0.13	0.002	0.00	0.13	0.001	(\$363,113)	(\$12,421)	-55.35	0.18	0.02	(\$2,014)	\$111,090	-0.38	0.63	(\$46,711)	(\$11,829)	
24	2040	-37.10	7.70	0.77	(\$7,937)	\$227,203	-0.24	0.10	0.002	0.01	0.10	0.001	(\$363,113)	\$9,679	-55.35	0.18	0.02	(\$2,014)	\$111,090	-0.38	0.63	(\$46,711)	(\$11,829)	
25	2041	-37.10	7.70	0.77	(\$7,937)	\$227,203	-0.24	0.10	0.002	0.01	0.10	0.001	(\$363,113)	\$9,679	-55.35	0.18	0.02	(\$2,014)	\$111,090	-0.38	0.63	(\$46,711)	(\$11,829)	
26	2042	-37.10	7.70	0.77	(\$7,937)	\$227,203	-0.24	0.10	0.002	0.01	0.10	0.001	(\$363,113)	\$9,679	-55.35	0.18	0.02	(\$2,014)	\$111,090	-0.38	0.63	(\$46,711)	(\$11,829)	
27	2043	-37.10	7.70	0.77	(\$7,937)	\$227,203	-0.24	0.10	0.002	0.01	0.10	0.001	(\$363,113)	\$9,679	-55.35	0.18	0.02	(\$2,014)	\$111,090	-0.38	0.63	(\$46,711)	(\$11,829)	
28	2044	-37.10	7.70	0.77	(\$7,937)	\$227,203	-0.24	0.10	0.002	0.01	0.10	0.001	(\$363,113)	\$9,679	-55.35	0.18	0.02	(\$2,014)	\$111,090	-0.38	0.63	(\$46,711)	(\$11,829)	
29	2045	-37.10	7.70	0.77	(\$7,937)	\$227,203	-0.24	0.10	0.002	0.01	0.10	0.001	(\$363,113)	\$9,679	-55.35	0.18	0.02	(\$2,014)	\$111,090	-0.38	0.63	(\$46,711)	(\$11,829)	
30	2046	-37.10	7.70	0.77	(\$7,937)	\$227,203	-0.24	0.10	0.002	0.01	0.10	0.001	(\$363,113)	\$9,679	-55.35	0.18	0.02	(\$2,014)	\$111,090	-0.38	0.63	(\$46,711)	(\$11,829)	
<b>TOTALS</b>		-1,113	517	23		\$4,545,876	-7.07	10.08	0.05	-0.94	9.78	0.04		(\$4,335,860)	-1,661	15.98	0.54		\$3,311,172	-11.27	18.87		(\$354,883)	
<b>3% Discount</b>						\$2,455,894								(\$3,412,018)					\$2,035,481				(\$218,552)	
<b>5% Discount</b>						\$1,685,678								(\$2,942,860)					\$1,534,295				(\$164,938)	
<b>7% Discount</b>						\$1,187,499								(\$2,560,222)					\$1,191,257				(\$128,210)	



COMBINED DUBUQUE-ROCKFORD-CHICAGO INTERCITY RAIL  
AND ROCKFORD-CHICAGO COMMUTER RAIL  
BENEFIT-COST ANALYSIS (2015 \$) - APPENDIX 1

Year	Calendar Year	Resource Externalities Value-Car	Resource Consumption Benefits <sup>9</sup>	Parking Internal + External Benefits Value	Total Parking Benefits <sup>10</sup>	Walking Health Costs Value - External	Bicycling Health Costs Value - External	Health Benefits - Increased Cardiovascular Activity <sup>11</sup>	Walking Mortality Costs Value - Internal	Bicycling Mortality Costs Value - Internal	Mortality Benefits - Increased Cardiovascular Activity <sup>11</sup>	Barrier Effect Value-Car	Barrier Effect Value-Heavy Bus	Barrier Effect Benefits <sup>12</sup>	Transport Diversity Value	Transport Diversity Benefits-Auto <sup>13</sup>	Uncompensated Moving Costs Value per HH	Number of HHS	Uncompensated HH Displacement Moving Costs <sup>14</sup>
0	2015																		
0	2016																		
1	2017	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
2	2018	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
3	2019	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
4	2020	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
5	2021	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
6	2022	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
7	2023	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
8	2024	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
9	2025	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
10	2026	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
11	2027	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
12	2028	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
13	2029	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
14	2030	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
15	2031	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
16	2032	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265	\$0	0	\$0
17	2033	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
18	2034	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
19	2035	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
20	2036	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
21	2037	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
22	2038	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
23	2039	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
24	2040	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
25	2041	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
26	2042	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
27	2043	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
28	2044	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
29	2045	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
30	2046	(\$0.05000)	\$2,291,488	(\$0.140)	\$0	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.26620)	(\$0.11000)	\$67,611	(\$0.01600)	(\$0.02600)	\$857,882	(\$0.00800)	\$428,265			
<b>TOTALS</b>			<b>\$68,744,627</b>		\$0			<b>\$2,028,327</b>			<b>\$2,028,327</b>			<b>\$25,736,470</b>		<b>\$12,847,955</b>		0	\$0
<b>3% Discount</b>			<b>\$42,335,920</b>		\$0			<b>\$1,249,132</b>			<b>\$1,249,132</b>			<b>\$15,849,633</b>		<b>\$7,912,327</b>			\$0
<b>5% Discount</b>			<b>\$31,950,211</b>		\$0			<b>\$942,699</b>			<b>\$942,699</b>			<b>\$11,961,453</b>		<b>\$5,971,301</b>			\$0
<b>7% Discount</b>			<b>\$24,835,601</b>		\$0			<b>\$732,780</b>			<b>\$732,780</b>			<b>\$9,297,900</b>		<b>\$4,641,623</b>			\$0

COMBINED DUBUQUE-ROCKFORD-CHICAGO INTERCITY RAIL  
AND ROCKFORD-CHICAGO COMMUTER RAIL  
BENEFIT-COST ANALYSIS (2015 \$) - APPENDIX 1

Year	Calendar Year	Proportion Auto Traffic	Auto Travel Time Lost (VHT)	Time Value (per hr)	Auto Travel Time Loss Costs <sup>15</sup>	Proportion Heavy Tk	Heavy Truck Travel Time Saved (VHT)	Time Value (per hr)	Heavy Truck Travel Time Savings Benefits <sup>15</sup>	Property Value Increase Less Travel Time Savings Benefit	Road Accidents Reduced	Train Accidents Increased	Value of Statistical Life	Death/ Crash Ratio	Auto Deaths Reduced	Train Deaths Increased	Deaths Prevented Benefits <sup>16</sup>	No Injury AIS 0 0.43676 * \$0	Minor AIS 1 0.41739 * \$27,700	Moderate AIS 2 0.08872 * \$433,965	Serious AIS 3 0.04817 * \$969,496	Severe AIS 4 0.00617 * \$2,456,056	Critical AIS 5 0.00279 * \$5,475,343
0	2015										0	0	\$9,330,000										
0	2016										0	0	\$9,440,094										
1	2017	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0	\$49,729,728	-146.44	4.16	\$9,551,487	0.003205	-0.4693	0.0137	\$4,351,655	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
2	2018	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$9,664,195	0.003205	-0.4693	0.0137	\$4,403,004	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
3	2019	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$9,778,232	0.003205	-0.4693	0.0137	\$4,454,960	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
4	2020	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$9,893,615	0.003205	-0.4693	0.0137	\$4,507,528	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
5	2021	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$10,010,360	0.003205	-0.4693	0.0137	\$4,560,717	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
6	2022	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$10,128,482	0.003205	-0.4693	0.0137	\$4,614,534	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
7	2023	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$10,247,998	0.003205	-0.4693	0.0137	\$4,668,985	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
8	2024	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$10,368,925	0.003205	-0.4693	0.0137	\$4,724,079	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
9	2025	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$10,491,278	0.003205	-0.4693	0.0137	\$4,779,823	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
10	2026	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$10,615,075	0.003205	-0.4693	0.0137	\$4,836,225	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
11	2027	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$10,740,333	0.003205	-0.4693	0.0137	\$4,893,293	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
12	2028	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$10,867,069	0.003205	-0.4693	0.0137	\$4,951,033	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
13	2029	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$10,995,300	0.003205	-0.4693	0.0137	\$5,009,456	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
14	2030	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$11,125,045	0.003205	-0.4693	0.0137	\$5,068,567	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
15	2031	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$11,256,320	0.003205	-0.4693	0.0137	\$5,128,376	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
16	2032	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$11,389,145	0.003205	-0.4693	0.0137	\$5,188,891	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
17	2033	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$11,523,537	0.003205	-0.4693	0.0137	\$5,250,120	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
18	2034	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$11,659,515	0.003205	-0.4693	0.0137	\$5,312,071	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
19	2035	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$11,797,097	0.003205	-0.4693	0.0137	\$5,374,754	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
20	2036	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$11,936,303	0.003205	-0.4693	0.0137	\$5,438,176	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
21	2037	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$12,077,151	0.003205	-0.4693	0.0137	\$5,502,346	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
22	2038	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$12,219,661	0.003205	-0.4693	0.0137	\$5,567,274	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
23	2039	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$12,363,853	0.003205	-0.4693	0.0137	\$5,632,968	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
24	2040	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$12,509,747	0.003205	-0.4693	0.0137	\$5,699,437	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
25	2041	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$12,657,362	0.003205	-0.4693	0.0137	\$5,766,690	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
26	2042	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$12,806,719	0.003205	-0.4693	0.0137	\$5,834,737	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
27	2043	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$12,957,838	0.003205	-0.4693	0.0137	\$5,903,587	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
28	2044	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$13,110,740	0.003205	-0.4693	0.0137	\$5,973,250	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
29	2045	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$13,265,447	0.003205	-0.4693	0.0137	\$6,043,734	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
30	2046	1.00	(738,698)	\$16.06	(\$11,863,483)	0.00	0	\$26.82	\$0		-146.44	4.16	\$13,421,979	0.003205	-0.4693	0.0137	\$6,115,050	\$0	\$11,562	\$38,501	\$46,701	\$15,154	\$15,276
<b>TOTALS</b>			-22,160,928		(\$355,904,504)		0		\$0	\$49,729,728	-4,393	125			-14.0790	0.4110	\$155,555,320						
<b>3% Discount</b>					(\$219,181,416)				\$0	\$45,507,674							\$93,358,789						
<b>5% Discount</b>					(\$165,412,550)				\$0	\$42,956,539							\$69,333,626						
<b>7% Discount</b>					(\$128,578,807)				\$0	\$40,594,377							\$53,107,868						

COMBINED DUBUQUE-ROCKFORD-CHICAGO INTERCITY RAIL  
AND ROCKFORD-CHICAGO COMMUTER RAIL  
BENEFIT-COST ANALYSIS (2015 \$) - APPENDIX 1

Year	Calendar Year	Injuries Prevented Benefits <sup>10</sup> Accidents* $\sum$ [Pr(AIS <sub>x</sub> )*Value (AIS <sub>x</sub> )]	Property Damage Only \$3,425 per Accident <sup>16</sup>	Total Accident Death/Injury/PDO Benefits <sup>16</sup>	Residual Value <sup>17</sup>	Discount Factor (3%)	Discount Factor (5%)	Discount Factor (7%)	NPV Costs (3% Discount)	NPV Benefits (3% Discount)	NPV Costs (5% Discount)	NPV Benefits (5% Discount)	NPV Costs (7% Discount)	NPV Benefits (7% Discount)
0	2015					0.9709	0.9524	0.9346	(\$111,957,232)	\$0	(\$109,823,945)	\$0	(\$107,771,376)	\$0
0	2016					0.9426	0.9070	0.8734	(\$108,693,879)	\$0	(\$104,588,742)	\$0	(\$100,714,231)	\$0
1	2017	\$18,097,266	\$487,313	\$22,936,234		0.9151	0.8638	0.8163	(\$130,230,265)	\$89,181,631	(\$122,929,628)	\$84,224,886	(\$116,169,779)	\$79,635,307
2	2018	\$18,097,266	\$487,313	\$22,987,583		0.8885	0.8227	0.7629	(\$23,982,117)	\$42,483,759	(\$22,206,064)	\$39,393,574	(\$20,591,961)	\$36,585,169
3	2019	\$18,097,266	\$487,313	\$23,039,539		0.8626	0.7835	0.7130	(\$23,225,843)	\$41,322,991	(\$21,096,044)	\$37,602,579	(\$19,197,804)	\$34,286,662
4	2020	\$18,097,266	\$487,313	\$23,092,107		0.8375	0.7462	0.6663	(\$22,512,998)	\$40,191,703	(\$20,058,745)	\$35,891,434	(\$17,910,938)	\$32,128,109
5	2021	\$18,097,266	\$487,313	\$23,145,296		0.8131	0.7107	0.6227	(\$21,839,128)	\$39,090,371	(\$19,088,757)	\$34,260,465	(\$16,725,157)	\$30,109,764
6	2022	\$18,097,266	\$487,313	\$23,199,113		0.7894	0.6768	0.5820	(\$21,167,677)	\$38,018,932	(\$18,148,320)	\$32,700,349	(\$15,606,268)	\$28,222,537
7	2023	\$18,097,266	\$487,313	\$23,253,564		0.7664	0.6446	0.5439	(\$20,533,997)	\$36,977,861	(\$17,270,635)	\$31,216,446	(\$14,572,600)	\$26,453,109
8	2024	\$18,097,266	\$487,313	\$23,308,658		0.7441	0.6139	0.5083	(\$19,903,629)	\$35,967,022	(\$16,420,962)	\$29,799,346	(\$13,596,310)	\$24,796,991
9	2025	\$18,097,266	\$487,313	\$23,364,402		0.7224	0.5847	0.4751	(\$19,307,220)	\$34,995,444	(\$15,626,981)	\$28,462,961	(\$12,697,757)	\$23,263,541
10	2026	\$18,097,266	\$487,313	\$23,420,804		0.7014	0.5568	0.4440	(\$18,714,478)	\$34,025,212	(\$14,856,318)	\$27,155,679	(\$11,846,633)	\$21,796,874
11	2027	\$18,097,266	\$487,313	\$23,477,872		0.6810	0.5303	0.4150	(\$18,155,593)	\$33,094,710	(\$14,137,902)	\$25,925,160	(\$11,063,981)	\$20,439,764
12	2028	\$18,097,266	\$487,313	\$23,535,612		0.6611	0.5051	0.3878	(\$17,610,445)	\$32,185,379	(\$13,454,902)	\$24,753,004	(\$10,330,253)	\$19,164,430
13	2029	\$18,097,266	\$487,313	\$23,594,035		0.6419	0.4810	0.3624	(\$17,084,808)	\$31,307,191	(\$12,802,294)	\$23,630,230	(\$9,645,637)	\$17,971,512
14	2030	\$18,097,266	\$487,313	\$23,653,146		0.6232	0.4581	0.3387	(\$16,573,316)	\$30,448,723	(\$12,182,664)	\$22,560,281	(\$9,007,353)	\$16,855,374
15	2031	\$18,097,266	\$487,313	\$23,712,955		0.6050	0.4363	0.3166	(\$16,075,937)	\$29,612,096	(\$11,593,275)	\$21,540,199	(\$8,412,631)	\$15,812,837
16	2032	\$18,097,266	\$487,313	\$23,773,470		0.5874	0.4155	0.2959	(\$15,608,273)	\$28,803,625	(\$11,040,582)	\$20,566,373	(\$7,862,595)	\$14,835,277
17	2033	\$18,097,266	\$487,313	\$23,834,699		0.5703	0.3957	0.2765	(\$15,141,292)	\$28,015,340	(\$10,505,715)	\$19,636,612	(\$7,340,991)	\$13,916,426
18	2034	\$18,097,266	\$487,313	\$23,896,651		0.5537	0.3769	0.2584	(\$14,700,567)	\$27,249,150	(\$10,006,581)	\$18,752,472	(\$6,860,442)	\$13,057,583
19	2035	\$18,097,266	\$487,313	\$23,959,333		0.5375	0.3589	0.2415	(\$14,258,584)	\$26,500,216	(\$9,520,755)	\$17,904,402	(\$6,406,415)	\$12,254,074
20	2036	\$18,097,266	\$487,313	\$24,022,755		0.5219	0.3418	0.2257	(\$13,844,753)	\$25,778,110	(\$9,067,133)	\$17,097,243	(\$5,987,279)	\$11,501,194
21	2037	\$18,097,266	\$487,313	\$24,086,926		0.5067	0.3256	0.2109	(\$13,430,336)	\$25,081,744	(\$8,630,190)	\$16,340,080	(\$5,590,009)	\$10,803,532
22	2038	\$18,097,266	\$487,313	\$24,151,853		0.4919	0.3101	0.1971	(\$13,038,054)	\$24,393,093	(\$8,219,355)	\$15,604,870	(\$5,224,234)	\$10,142,443
23	2039	\$18,097,266	\$487,313	\$24,217,547		0.4776	0.2953	0.1842	(\$12,659,026)	\$23,726,952	(\$7,827,073)	\$14,901,601	(\$4,882,313)	\$9,523,123
24	2040	\$18,097,266	\$487,313	\$24,284,016		0.4637	0.2812	0.1722	(\$12,280,352)	\$23,077,171	(\$7,447,132)	\$14,229,522	(\$4,560,441)	\$8,945,173
25	2041	\$18,097,266	\$487,313	\$24,351,269		0.4502	0.2678	0.1609	(\$11,922,826)	\$22,444,134	(\$7,092,254)	\$13,589,066	(\$4,261,179)	\$8,399,336
26	2042	\$18,097,266	\$487,313	\$24,419,316		0.4371	0.2551	0.1504	(\$11,575,893)	\$21,829,082	(\$6,755,915)	\$12,981,049	(\$3,983,103)	\$7,890,999
27	2043	\$18,097,266	\$487,313	\$24,488,166		0.4243	0.2429	0.1406	(\$11,236,906)	\$21,219,146	(\$6,432,817)	\$12,387,792	(\$3,723,566)	\$7,407,376
28	2044	\$18,097,266	\$487,313	\$24,557,829		0.4120	0.2314	0.1314	(\$10,911,160)	\$20,640,400	(\$6,128,258)	\$11,835,413	(\$3,479,918)	\$6,960,005
29	2045	\$18,097,266	\$487,313	\$24,628,313		0.4000	0.2204	0.1228	(\$10,593,359)	\$20,075,017	(\$5,836,941)	\$11,306,126	(\$3,252,161)	\$6,540,848
30	2046	\$18,097,266	\$487,313	\$24,699,629	\$66,294,114	0.3883	0.2099	0.1147	(\$10,283,503)	\$45,264,893	(\$5,558,865)	\$24,714,998	(\$3,037,646)	\$13,748,911
<b>TOTALS</b>		<b>\$542,917,992</b>	<b>\$14,619,380</b>	<b>\$713,092,693</b>	<b>\$66,294,114</b>				<b>(\$819,053,444)</b>	<b>\$973,001,095</b>	<b>(\$686,355,742)</b>	<b>\$740,964,210</b>	<b>(\$592,312,960)</b>	<b>\$583,448,280</b>
<b>3% Discount</b>		<b>\$334,352,426</b>	<b>\$9,003,248</b>		<b>\$25,742,004</b>				<b>B/C Ratio:</b>	<b>1.19</b>	<b>B/C Ratio:</b>	<b>1.08</b>	<b>B/C Ratio:</b>	<b>0.99</b>
<b>5% Discount</b>		<b>\$252,330,186</b>	<b>\$6,794,601</b>		<b>\$13,915,135</b>				<b>NPV:</b>	<b>\$153,947,651</b>	<b>NPV:</b>	<b>\$54,608,468</b>	<b>NPV:</b>	<b>(\$8,864,680)</b>
<b>7% Discount</b>		<b>\$196,141,793</b>	<b>\$5,281,592</b>		<b>\$7,603,935</b>									