

Appendix D

Evaluation Results for Each "Package" and Geographical Area

2011 Existing + Committed Scenario

Evaluation Criteria	Memphis	Region							Total
		Memphis to Jackson	Jackson	Jackson to Nashville	Nashville	Nashville to Knoxville	Knoxville	Lakeway & Tri-Cities	
Number of Hours of Auto Travel	72,514	21,023	8,349	37,207	100,058	63,274	43,241	66,804	412,470
Number of Hours of Recurring Auto Delay	19,987	4,754	2,190	22,346	20,826	43,393	11,312	24,473	149,281
Number of Hours of Nonrecurring Auto Delay									
Total Auto VMT	2,781,184	1,454,385	461,965	2,589,276	5,360,081	4,254,097	4,237,234	4,374,775	25,512,997
Number of Hours of Truck Travel	22,822	10,755	2,962	22,050	25,015	26,143	22,369	17,615	149,731
Number of Hours of Recurring Truck Delay	5,691	2,732	723	13,078	3,675	17,928	6,452	6,478	56,757
Number of Hours of Nonrecurring Truck Delay									
Total Truck VMT	651,818	744,051	163,896	1,515,321	1,022,386	1,757,581	2,162,383	1,152,879	9,170,315
Percentage of Corridor at LOS D-F	75%	0%	0%	0%	95%	22%	34%	9%	
Time to Travel Across Entire Corridor	77	48	13	96	89	125	78	108	634
Average Delay Time to Travel Across Entire Corridor	17	1	2	5	9	13	13	6	66
Percent of Miles with Full ITS Deployment	85%	0%	0%	0%	90%	0%	57%	19%	
Percent of Miles with Partial ITS Deployment	0%	0%	0%	24%***	0%	41%	0%	3%	40%
Total Number of Accidents	1230	258	82	456	1964	1050	1924	736	7,700
Total Number of Fatalities	8	5	1	8	15	17	13	10	77
Total Accidents at High Crash Locations	611	17	4	88	906	332	751	70	2,779

***Tennessee River only

2030 Existing + Committed Scenario

Evaluation Criteria	Memphis	Region							Total
		Memphis to Jackson	Jackson	Jackson to Nashville	Nashville	Nashville to Knoxville	Knoxville	Lakeway & Tri-Cities	
Number of Hours of Auto Travel	86,511	32,745	9,779	46,824	167,737	83,715	99,465	86,877	613,653
Number of Hours of Recurring Auto Delay	22,401	10,756	3,672	42,040	62,570	82,581	32,571	51,192	307,783
Number of Hours of Nonrecurring Auto Delay				1,799	11,517	8,971		4,155	
Total Auto VMT	3,279,808	2,149,422	516,492	3,122,013	6,320,680	5,243,939	4,663,981	5,418,299	30,714,634
Number of Hours of Truck Travel	37,490	18,133	4,898	35,585	36,820	45,772	66,849	29,654	275,201
Number of Hours of Recurring Truck Delay	10,934	5,967	1,839	33,407	13,375	46,423	23,461	17,644	153,050
Number of Hours of Nonrecurring Truck Delay				1,869		5,358		1,146	
Total Truck VMT	980,481	1,192,357	258,626	2,434,452	1,684,574	2,947,902	3,039,772	1,858,641	14,396,805
Percentage of Corridor at LOS D-F	100%	62%	87%	23%	99%	97%	92%	52%	
Time to Travel Across Entire Corridor	84	55	14	113	116	147	102	122	753
Average Delay Time to Travel Across Entire Corridor	25	8	3	22	40	34	37	20	189
Percent of Miles with Full ITS Deployment	85%	0%	0%	0%	19%	0%	57%	0%	
Percent of Miles with Partial ITS Deployment	0%	0%	0%	0%	0%	0%	0%	3%	
Total Number of Accidents	1450	382	92	550	2,316	1294	2118	912	9,114
Total Number of Fatalities	10	7	1	10	18	21	14	13	94
Total Accidents at High Crash Locations	721	25	5	106	1,068	409	827	87	3,248

* For Nashville MPO, truck percentage derived from statewide model

** Some overlap may occur between the Statewide model and MPO model outlying areas.

2030 Roadway Capacity (Add Capacity to I-40/I-81)

Evaluation Criteria	Memphis	Region							Total
		Memphis to Jackson	Jackson	Jackson to Nashville	Nashville	Nashville to Knoxville	Knoxville	Lakeway & Tri-Cities	
Number of Hours of Auto Travel	65,063	34,829	9,743	51,372	135,601	86,950	101,974	89,350	574,882
Number of Hours of Recurring Auto Delay	13,280	2,638	790	3,407	24,408	9,885	27,618	13,206	95,232
Number of Hours of Nonrecurring Auto Delay									
Total Auto VMT	4,025,719	2,377,160	565,005	3,551,368	6,705,830	5,866,858	5,413,408	5,765,802	34,271,150
Number of Hours of Truck Travel	26,423	17,521	4,454	35,122	29,766	42,986	63,765	30,018	250,055
Number of Hours of Recurring Truck Delay	4,677	4,461	1,013	22,989	5,358	32,634	19,139	14,994	105,265
Number of Hours of Nonrecurring Truck Delay									
Total Truck VMT	980,559	1,195,879	258,291	2,426,247	1,670,694	2,900,439	3,210,229	1,895,311	14,537,649
Percentage of Corridor at LOS D-F	66%	5%	93%	1%	67%	28%	47%	29%	
Time to Travel Across Entire Corridor	70	50	12	96	94	124	89	114	649
Average Delay Time to Travel Across Entire Corridor	9	3	1	5	19	12	25	12	86
Percent of Miles with Full ITS Deployment	85%	0%	0%	0%	90%	0%	57%	19%	
Percent of Miles with Partial ITS Deployment	0%	0%	0%	24%***	0%	41%	0%	3%	40%
Total Number of Accidents	1385	374	88	540	2183	1262	1997	904	8,733
Total Number of Fatalities	9	7	1	10	17	20	13	13	90
Total Accidents at High Crash Locations	353	15	0	48	399	188	284	34	1,321

***Tennessee River only

2030 Corridor Capacity (Add Capacity to Parallel Roadways)

Evaluation Criteria	Region								Total
	Memphis	Memphis to Jackson	Jackson	Jackson to Nashville	Nashville	Nashville to Knoxville	Knoxville	Lakeway & Tri-Cities	
Number of Hours of Auto Travel	76,671	33,796	10,576	45,891	133,024	81,333	95,352	86,190	562,833
Number of Hours of Recurring Auto Delay	14,610	11,015	3,989	40,135	43,302	80,462	29,800	49,635	272,948
Number of Hours of Nonrecurring Auto Delay									
Total Auto VMT	3,277,429	2,219,028	546,898	3,092,039	5,468,385	5,214,064	4,748,724	5,382,085	29,948,652
Number of Hours of Truck Travel	24,197	18,189	4,995	34,705	33,256	43,681	64,098	29,252	252,373
Number of Hours of Recurring Truck Delay	6,197	5,924	1,883	30,351	9,505	43,202	21,305	16,846	135,213
Number of Hours of Nonrecurring Truck Delay									
Total Truck VMT	724,075	1,193,389	258,250	2,338,223	1,603,373	2,799,576	2,929,878	1,826,624	13,673,388
Percentage of Corridor at LOS D-F	85%	78%	97%	23%	95%	94%	31%	51%	
Time to Travel Across Entire Corridor	76	55	15	112	107	146	99	119	729
Average Delay Time to Travel Across Entire Corridor	17	8	4	22	31	33	35	19	169
Percent of Miles with Full ITS Deployment	85%	0%	0%	0%	90%	0%	57%	19%	
Percent of Miles with Partial ITS Deployment	0%	0%	0%	24%***	0%	41%	0%	3%	40%
Total Number of Accidents	1,362	359	86	517	2,175	1,215	1,989	857	8,560
Total Number of Fatalities	14	4	1	5	22	12	20	9	87
Total Accidents at High Crash Locations									

***Tennessee River only

2030 Rail Improvements Scenario

Evaluation Criteria	Memphis	Region						Total	
		Memphis to Jackson	Jackson	Jackson to Nashville	Nashville	Nashville to Knoxville	Knoxville		Lakeway & Tri-Cities
Number of Hours of Auto Travel	86,511	32,745	9,779	46,824	167,737	83,715	99,465	86,877	613,653
Number of Hours of Recurring Auto Delay	20,199	9,699	3,311	37,907	56,419	74,463	29,369	46,159	277,526
Total Auto VMT	3,279,808	2,149,422	516,492	3,122,013	6,320,680	5,243,939	4,663,981	5,418,299	30,714,634
Number of Hours of Truck Travel	37,017	17,647	4,785	34,208	36,497	43,551	66,190	28,636	268,531
Number of Hours of Recurring Truck Delay	9,859	5,380	1,658	30,123	12,060	41,859	21,155	15,909	138,003
Total Truck VMT	926,721	1,102,757	240,706	2,219,412	1,614,434	2,550,442	2,963,792	1,608,741	13,227,005
Time to Travel Across Entire Corridor	82	54	14	111	112	144	98	120	735
Average Delay Time to Travel Across Entire Corridor	23	7	3	20	36	31	34	18	172
Percent of Miles with Full ITS Deployment	85%	0%	0%	0%	90%	0%	57%	19%	40%
Percent of Miles with Partial ITS Deployment	0%	0%	0%	24%***	0%	41%	0%	3%	
Total Number of Accidents	1438	361	88	500	2,300	1202	2100	854	8,844
Total Number of Fatalities	10	7	1	10	18	20	14	12	91
Total Accidents at High Crash Locations									

n/a = not available from model outputs

* For Nashville MPO, truck percentage derived from statewide figures

** Some overlap may occur between the Statewide model and MPO model outlying areas.

***Tennessee River only

2030 Operations Scenario

Evaluation Criteria	Memphis	Region							Total
		Memphis to Jackson	Jackson	Jackson to Nashville	Nashville	Nashville to Knoxville	Knoxville	Lakeway & Tri-Cities	
Number of Hours of Auto Travel	86,511	32,745	9,779	46,824	167,737	83,715	99,465	86,877	613,653
Number of Hours of Recurring Auto Delay	22,401	10,756	3,672	42,040	62,570	82,581	32,571	51,192	307,783
Number of Hours of Nonrecurring Auto Delay				1,746	5,642	8,705		2,036	
Total Auto VMT	3,279,808	2,149,422	516,492	3,122,013	6,320,680	5,243,939	4,663,981	5,418,299	30,714,634
Number of Hours of Truck Travel	37,490	18,133	4,898	35,585	36,820	45,772	66,849	29,654	275,201
Number of Hours of Recurring Truck Delay	10,934	5,967	1,839	33,407	13,375	46,423	23,461	17,644	153,050
Number of Hours of Nonrecurring Truck Delay				1,474		5,199		562	
Total Truck VMT	980,481	1,192,357	258,626	2,434,452	1,684,574	2,947,902	3,039,772	1,858,641	14,396,805
Percentage of Corridor at LOS D-F	100%	62%	87%	23%	99%	97%	92%	52%	
Time to Travel Across Entire Corridor	84	55	14	113	116	134	102	119	737
Average Delay Time to Travel Across Entire Corridor	25	8	3	22	40	34	37	20	189
Percent of Miles with Full ITS Deployment	85%	0%	0%	0%	90%	0%	57%	19%	
Percent of Miles with Partial ITS Deployment	0%	0%	0%	12%	0%	41%	0%	3%	40%
Total Number of Accidents	1450	382	92	547	2316	1281	2118	911	9,097
Total Number of Fatalities	10	7	1	10	16	21	14	11	90
Total Accidents at High Crash Locations	721	25	5	106	1,068	409	827	87	3,248

* For Nashville MPO, truck percentage derived from statewide figures

** Some overlap may occur between the Statewide model and MPO model outlying areas.

Scenario Comparison of Statewide Totals

Summary Totals

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Rail Scenario	2030 Operations Scenario
Number of Hours of Auto Travel	412,470	613,653	574,882	562,833	613,653	613,653
Number of Hours of Recurring Auto Delay	149,281	307,783	95,232	272,948	277,526	307,783
Total Auto VMT	25,512,997	30,714,634	34,271,150	29,948,652	30,714,634	30,714,634
Number of Hours of Truck Travel	149,731	275,201	250,055	252,373	268,531	275,201
Number of Hours of Recurring Truck Delay	56,757	153,050	105,265	135,213	138,003	153,050
Total Truck VMT	9,170,315	14,396,805	14,537,649	13,673,388	13,227,005	14,396,805
Time to Travel Across Entire Corridor	634	753	649	729	735	737
Average Delay Time to Travel Across Entire Corridor	66	189	86	169	172	189
Total Number of Accidents	7,700	9,114	8,733	8,560	8,844	9,097
Total Number of Fatalities	77	94	90	87	91	90
Total Accidents at High Crash Locations	2,779	3,248	1,321	n/a	n/a	3,248

Scenario Comparison of Statewide Totals

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	412,470	613,653	574,882	562,833	613,653	613,653
Number of Hours of Recurring Auto Delay	149,281	307,783	95,232	272,948	307,783	277,526
Total Auto VMT	25,512,997	30,714,634	34,271,150	29,948,652	30,714,634	30,714,634
Number of Hours of Truck Travel	149,731	275,201	250,055	252,373	275,201	268,531
Number of Hours of Recurring Truck Delay	56,757	153,050	105,265	135,213	153,050	138,003
Total Truck VMT	9,170,315	14,396,805	14,537,649	13,673,388	14,396,805	13,227,005
Time to Travel Across Entire Corridor	634	753	649	729	737	735
Average Delay Time to Travel Across Entire Corridor	66	189	86	169	189	172
Total Number of Accidents	7,700	9,114	8,733	8,560	9,097	8,844
Total Number of Fatalities	77	94	90	87	90	91
Total Accidents at High Crash Locations	2,779	3,248	1,321	n/a	3,248	n/a

Memphis

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	72,514	86,511	65,063	76,671	86,511	86,511
Number of Hours of Recurring Auto Delay	19,987	22,401	13,280	14,610	22,401	20,199
Total Auto VMT	2,781,184	3,279,808	4,025,719	3,277,429	3,279,808	3,279,808
Number of Hours of Truck Travel	22,822	37,490	26,423	24,197	37,490	37,017
Number of Hours of Recurring Truck Delay	5,691	10,934	4,677	6,197	10,934	9,859
Total Truck VMT	651,818	980,481	980,559	724,075	980,481	926,721
Percentage of Corridor at LOS D-F	75%	100%	66%	85%	100%	n/a
Time to Travel Across Entire Corridor	77	84	70	76	84	82
Average Delay Time to Travel Across Entire Corridor	17	25	9	17	25	23
Total Number of Accidents	1,230	1,450	1,385	1,362	1,450	1,438
Total Number of Fatalities	8	10	9	14	10	10
Total Accidents at High Crash Locations	611	721	353	n/a	721	n/a

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	n/a	n/a	-25%	-11%	0%	0%
Number of Hours of Recurring Auto Delay	n/a	n/a	-41%	-35%	0%	-10%
Total Auto VMT	n/a	n/a	23%	0%	0%	0%
Number of Hours of Truck Travel	n/a	n/a	-30%	-35%	0%	-1%
Number of Hours of Recurring Truck Delay	n/a	n/a	-57%	-43%	0%	-10%
Total Truck VMT	n/a	n/a	0%	-26%	0%	-5%
Percentage of Corridor at LOS D-F	n/a	n/a	-34%	-15%	0%	
Time to Travel Across Entire Corridor	n/a	n/a	-17%	-10%	0%	-2%
Average Delay Time to Travel Across Entire Corridor	n/a	n/a	-64%	-32%	0%	-8%
Total Number of Accidents	n/a	n/a	-4%	-6%	0%	n/a
Total Number of Fatalities	n/a	n/a	-10%	40%	0%	0%
Total Accidents at High Crash Locations	n/a	n/a	-51%		0%	

n/a

n/a

Memphis to Jackson

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	21,023	32,745	34,829	33,796	32,745	32,745
Number of Hours of Recurring Auto Delay	4,754	10,756	2,638	11,015	10,756	9,699
Total Auto VMT	1,454,385	2,149,422	2,377,160	2,219,028	2,149,422	2,149,422
Number of Hours of Truck Travel	10,755	18,133	17,521	18,189	18,133	17,647
Number of Hours of Recurring Truck Delay	2,732	5,967	4,461	5,924	5,967	5,380
Total Truck VMT	744,051	1,192,357	1,195,879	1,193,389	1,192,357	1,102,757
Percentage of Corridor at LOS D-F	0%	62%	5%	78%	62%	n/a
Time to Travel Across Entire Corridor	48	55	50	55	55	54
Average Delay Time to Travel Across Entire Corridor	1	8	3	8	8	7
Total Number of Accidents	258	382	374	359	382	361
Total Number of Fatalities	5	7	7	4	7	7
Total Accidents at High Crash Locations	17	25	15	n/a	25	n/a

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	n/a	n/a	6%	3%	0%	0%
Number of Hours of Recurring Auto Delay	n/a	n/a	-75%	2%	0%	-10%
Total Auto VMT	n/a	n/a	11%	3%	0%	0%
Number of Hours of Truck Travel	n/a	n/a	-3%	0%	0%	-3%
Number of Hours of Recurring Truck Delay	n/a	n/a	-25%	-1%	0%	-10%
Total Truck VMT	n/a	n/a	0%	0%	0%	-8%
Percentage of Corridor at LOS D-F	n/a	n/a	-57%	16%	0%	
Time to Travel Across Entire Corridor	n/a	n/a	-9%	0%	0%	-2%
Average Delay Time to Travel Across Entire Corridor	n/a	n/a	-63%	0%	0%	n/a -13%
Total Number of Accidents	n/a	n/a	-2%	-6%	0%	-5%
Total Number of Fatalities	n/a	n/a	0%	-43%	0%	0%
Total Accidents at High Crash Locations	n/a	n/a	-40%		0%	

n/a

n/a

Jackson

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	8,349	9,779	9,743	10,576	9,779	9,779
Number of Hours of Recurring Auto Delay	2,190	3,672	790	3,989	3,672	3,311
Total Auto VMT	461,965	516,492	565,005	546,898	516,492	516,492
Number of Hours of Truck Travel	2,962	4,898	4,454	4,995	4,898	4,785
Number of Hours of Recurring Truck Delay	723	1,839	1,013	1,883	1,839	1,658
Total Truck VMT	163,896	258,626	258,291	258,250	258,626	240,706
Percentage of Corridor at LOS D-F	0%	87%	93%	97%	87%	n/a
Time to Travel Across Entire Corridor	13	14	12	15	14	14
Average Delay Time to Travel Across Entire Corridor	2	3	1	4	3	3
Total Number of Accidents	82	92	88	86	92	88
Total Number of Fatalities	1	1	1	1	1	1
Total Accidents at High Crash Locations	4	5	0	n/a	5	n/a

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	n/a	n/a	0%	8%	0%	0%
Number of Hours of Recurring Auto Delay	n/a	n/a	-78%	9%	0%	-10%
Total Auto VMT	n/a	n/a	9%	6%	0%	0%
Number of Hours of Truck Travel	n/a	n/a	-9%	2%	0%	-2%
Number of Hours of Recurring Truck Delay	n/a	n/a	-45%	2%	0%	-10%
Total Truck VMT	n/a	n/a	0%	0%	0%	-7%
Percentage of Corridor at LOS D-F	n/a	n/a	6%	10%	0%	
Time to Travel Across Entire Corridor	n/a	n/a	-14%	7%	0%	0%
Average Delay Time to Travel Across Entire Corridor	n/a	n/a	-67%	33%	0%	n/a
Total Number of Accidents	n/a	n/a	-4%	-7%	0%	-4%
Total Number of Fatalities	n/a	n/a	0%	0%	0%	0%
Total Accidents at High Crash Locations	n/a	n/a	-100%		0%	

n/a

n/a

Jackson to Nashville

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	37,207	46,824	51,372	45,891	46,824	46,824
Number of Hours of Recurring Auto Delay	22,346	42,040	3,407	40,135	42,040	37,907
Number of Hours of Nonrecurring Auto Delay	n/a	1,799	n/a	n/a	1,746	n/a
Total Auto VMT	2,589,276	3,122,013	3,551,368	3,092,039	3,122,013	3,122,013
Number of Hours of Truck Travel	22,050	35,585	35,122	34,705	35,585	34,208
Number of Hours of Recurring Truck Delay	13,078	33,407	22,989	30,351	33,407	30,123
Number of Hours of Nonrecurring Truck Delay	n/a	1,869	n/a	n/a	1,474	n/a
Total Truck VMT	1,515,321	2,434,452	2,426,247	2,338,223	2,434,452	2,219,412
Percentage of Corridor at LOS D-F	0%	23%	1%	23%	23%	n/a
Time to Travel Across Entire Corridor	96	113	96	112	113	111
Average Delay Time to Travel Across Entire Corridor	5	22	5	22	22	20
Total Number of Accidents	456	550	540	517	547	500
Total Number of Fatalities	8	10	10	5	10	10
Total Accidents at High Crash Locations	88	106	48	n/a	106	n/a

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	n/a	n/a			-3%	
Number of Hours of Recurring Auto Delay	n/a	n/a	14%	-1%	0%	0%
Total Auto VMT	n/a	n/a	n/a -1%	n/a -2%	0%	n/a -4%
Number of Hours of Truck Travel	n/a	n/a	-31%	-9%	0%	-10%
Number of Hours of Recurring Truck Delay	n/a	n/a			-21%	
Total Truck VMT	n/a	n/a	0%	-4%	0%	-9%
Percentage of Corridor at LOS D-F	n/a	n/a	n/a -22%	n/a 0%	0%	n/a
Time to Travel Across Entire Corridor	n/a	n/a	-15%	-1%	0%	-2%
Average Delay Time to Travel Across Entire Corridor	n/a	n/a	-77%	0%	0%	n/a -9%
Total Number of Accidents	n/a	n/a	-2%	-6%	-1%	-9%
Total Number of Fatalities	n/a	n/a	0%	-50%	-1%	0%
Total Accidents at High Crash Locations	n/a	n/a	-55%		0%	

n/a

n/a

Nashville

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	100,058	167,737	135,601	133,024	167,737	167,737
Number of Hours of Recurring Auto Delay	20,826	62,570	24,408	43,302	62,570	56,419
Number of Hours of Nonrecurring Auto Delay	n/a	11,517	n/a	n/a	5,642	n/a
Total Auto VMT	5,360,081	6,320,680	6,705,830	5,468,385	6,320,680	6,320,680
Number of Hours of Truck Travel	25,015	36,820	29,766	33,256	36,820	36,497
Number of Hours of Recurring Truck Delay	3,675	13,375	5,358	9,505	13,375	12,060
Total Truck VMT	1,022,386	1,684,574	1,670,694	1,603,373	1,684,574	1,614,434
Percentage of Corridor at LOS D-F	95%	99%	67%	95%	99%	n/a
Time to Travel Across Entire Corridor	89	116	94	107	116	112
Average Delay Time to Travel Across Entire Corridor	9	40	19	31	40	36
Total Number of Accidents	1,964	2,316	2,183	2,175	2,316	2,300
Total Number of Fatalities	15	18	17	22	16	18
Total Accidents at High Crash Locations	906	1,068	399	n/a	1,068	n/a

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	n/a	n/a	-61%	-31%	0%	-10%
Number of Hours of Recurring Auto Delay	n/a	n/a			-51%	
Total Auto VMT	n/a	n/a	6%	-13%	0%	0%
Number of Hours of Truck Travel	n/a	n/a	n/a -19%	n/a -10%	0%	n/a -1%
Number of Hours of Recurring Truck Delay	n/a	n/a	-60%	-29%	0%	-10%
Total Truck VMT	n/a	n/a	-1%	-5%	0%	-4%
Percentage of Corridor at LOS D-F	n/a	n/a	-32%	-4%	0%	
Time to Travel Across Entire Corridor	n/a	n/a	-19%	-8%	0%	-3%
Average Delay Time to Travel Across Entire Corridor	n/a	n/a	-53%	-23%	0%	n/a -10%
Total Number of Accidents	n/a	n/a	-6%	-6%	0%	-1%
Total Number of Fatalities	n/a	n/a	-6%	22%	-11%	0%
Total Accidents at High Crash Locations	n/a	n/a	-63%		0%	

n/a

n/a

Nashville to Knoxville

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	63,274	83,715	86,950	81,333	83,715	83,715
Number of Hours of Recurring Auto Delay	43,393	82,581	9,885	80,462	82,581	74,463
Number of Hours of Nonrecurring Auto Delay	n/a	8,971	n/a	n/a	8,705	n/a
Total Auto VMT	4,254,097	5,243,939	5,866,858	5,214,064	5,243,939	5,243,939
Number of Hours of Truck Travel	26,143	45,772	42,986	43,681	45,772	43,551
Number of Hours of Recurring Truck Delay	17,928	46,423	32,634	43,202	46,423	41,859
Number of Hours of Nonrecurring Truck Delay	n/a	5,358	n/a	n/a	5,199	n/a
Total Truck VMT	1,757,581	2,947,902	2,900,439	2,799,576	2,947,902	2,550,442
Percentage of Corridor at LOS D-F	22%	97%	28%	94%	97%	n/a
Time to Travel Across Entire Corridor	125	147	124	146	134	144
Average Delay Time to Travel Across Entire Corridor	13	34	12	33	34	31
Total Number of Accidents	1,050	1,294	1,262	1,215	1,281	1,202
Total Number of Fatalities	17	21	20	12	21	20
Total Accidents at High Crash Locations	332	409	188	n/a	409	n/a

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	n/a	n/a			-3%	
Number of Hours of Recurring Auto Delay	n/a	n/a	12%	-1%	0%	0%
Total Auto VMT	n/a	n/a	n/a -6%	n/a -5%	0%	n/a -5%
Number of Hours of Truck Travel	n/a	n/a	-30%	-7%	0%	-10%
Number of Hours of Recurring Truck Delay	n/a	n/a			-3%	
Total Truck VMT	n/a	n/a	-2%	-5%	0%	-13%
Percentage of Corridor at LOS D-F	n/a	n/a	n/a -69%	n/a -3%	0%	n/a
Time to Travel Across Entire Corridor	n/a	n/a	-16%	-1%	-9%	-2%
Average Delay Time to Travel Across Entire Corridor	n/a	n/a	-65%	-3%	0%	n/a -9%
Total Number of Accidents	n/a	n/a	-2%	-6%	-1%	-7%
Total Number of Fatalities	n/a	n/a	-5%	-43%	-1%	-5%
Total Accidents at High Crash Locations	n/a	n/a	-54%		0%	

n/a

n/a

Knoxville

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	43,241	99,465	101,974	95,352	99,465	99,465
Number of Hours of Recurring Auto Delay	11,312	32,571	27,618	29,800	32,571	29,369
Total Auto VMT	4,237,234	4,663,981	5,413,408	4,748,724	4,663,981	4,663,981
Number of Hours of Truck Travel	22,369	66,849	63,765	64,098	66,849	66,190
Number of Hours of Recurring Truck Delay	6,452	23,461	19,139	21,305	23,461	21,155
Total Truck VMT	2,162,383	3,039,772	3,210,229	2,929,878	3,039,772	2,963,792
Percentage of Corridor at LOS D-F	34%	92%	47%	31%	92%	n/a
Time to Travel Across Entire Corridor	78	102	89	99	102	98
Average Delay Time to Travel Across Entire Corridor	13	37	25	35	37	34
Total Number of Accidents	1,924	2,118	1,997	1,989	2,118	2,100
Total Number of Fatalities	13	14	13	20	14	14
Total Accidents at High Crash Locations	751	827	284	n/a	827	n/a

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	n/a	n/a	3%	-4%	0%	0%
Number of Hours of Recurring Auto Delay	n/a	n/a	-15%	-9%	0%	-10%
Total Auto VMT	n/a	n/a	16%	2%	0%	0%
Number of Hours of Truck Travel	n/a	n/a	-5%	-4%	0%	-1%
Number of Hours of Recurring Truck Delay	n/a	n/a	-18%	-9%	0%	-10%
Total Truck VMT	n/a	n/a	6%	-4%	0%	-2%
Percentage of Corridor at LOS D-F	n/a	n/a	-45%	-61%	0%	
Time to Travel Across Entire Corridor	n/a	n/a	-13%	-3%	0%	-4%
Average Delay Time to Travel Across Entire Corridor	n/a	n/a	-32%	-5%	0%	n/a -8%
Total Number of Accidents	n/a	n/a	-6%	-6%	0%	-1%
Total Number of Fatalities	n/a	n/a	-7%	43%	0%	0%
Total Accidents at High Crash Locations	n/a	n/a	-66%		0%	

n/a

n/a

Lakeway & Tri-Cities

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario
Number of Hours of Auto Travel	66,804	86,877	89,350	86,190	86,877	86,877
Number of Hours of Recurring Auto Delay	24,473	51,192	13,206	49,635	51,192	46,159
Number of Hours of Nonrecurring Auto Delay	n/a	4,155	n/a	n/a	2,036	n/a
Total Auto VMT	4,374,775	5,418,299	5,765,802	5,382,085	5,418,299	5,418,299
Number of Hours of Truck Travel	17,615	29,654	30,018	29,252	29,654	28,636
Number of Hours of Recurring Truck Delay	6,478	17,644	14,994	16,846	17,644	15,909
Number of Hours of Nonrecurring Truck Delay	n/a	1,146	n/a	n/a	562	n/a
Total Truck VMT	1,152,879	1,858,641	1,895,311	1,826,624	1,858,641	1,608,741
Percentage of Corridor at LOS D-F	9%	52%	29%	51%	52%	n/a
Time to Travel Across Entire Corridor	108	122	114	119	119	120
Average Delay Time to Travel Across Entire Corridor	6	20	12	19	20	18
Total Number of Accidents	736	912	904	857	911	854
Total Number of Fatalities	10	13	13	9	11	12
Total Accidents at High Crash Locations	70	87	34	n/a	87	n/a

Evaluation Criteria	2011 Existing + Committed	2030 Existing + Committed	2030 Roadway Scenario	2030 Corridor Scenario	2030 Operations Scenario	2030 Rail Scenario			
Number of Hours of Auto Travel	n/a	n/a			-51%				
Number of Hours of Recurring Auto Delay	n/a	n/a	6%	-1%	0%	0%			
Total Auto VMT	n/a	n/a	n/a	1%	n/a	-1%	0%	n/a	-3%
Number of Hours of Truck Travel	n/a	n/a	-15%	-5%	0%	-10%			
Number of Hours of Recurring Truck Delay	n/a	n/a			-51%				
Total Truck VMT	n/a	n/a	2%	-2%	0%	-13%			
Percentage of Corridor at LOS D-F	n/a	n/a	n/a	-23%	n/a	-1%	0%	n/a	
Time to Travel Across Entire Corridor	n/a	n/a	-7%	-2%	-2%	-2%			
Average Delay Time to Travel Across Entire Corridor	n/a	n/a	-40%	-5%	0%	n/a	-10%		
Total Number of Accidents	n/a	n/a	-1%	-6%	0%	-6%			
Total Number of Fatalities	n/a	n/a	0%	-31%	-15%	-8%			
Total Accidents at High Crash Locations	n/a	n/a	-61%		0%				

n/a

n/a