



Appendix T:

DETAILED IDAS OUTPUT

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Table T-1. Benefit/Cost Summary for Ramp Metering on Beltline Highway with Delta Highway (Adjusted to Peak Periods)

Annual Benefits (Benefits are reported in 2003 dollars)	Weight	ATMS Ramp Metering
Change in User Mobility	10.00	\$ 683,966
Change In User Travel Time		
In-Vehicle Travel Time	1.00	\$ 0
Out-of-Vehicle Travel Time	1.00	\$ 0
Travel Time Reliability	0.25	\$ 15
Change in Costs Paid by Users		
Fuel Costs	0.25	\$ (6,380)
Non-fuel Operating Costs	0.25	\$ 268
Accident Costs (Internal Only)	0.25	\$ 440,202
Change in External Costs		
Accident Costs (External Only)	0.25	\$ 77,682
Emissions		
HC/ROG	0.25	\$ 98
NOx	0.25	\$ (1,506)
CO	0.25	\$ 495
PM10	1.00	\$ (0)
CO2	0.00	\$ (0)
Global Warming	0.00	\$ (0)
Noise	0.25	\$ 73
Other Mileage-Based External Costs	1.00	\$ (0)
Other Trip-Based External Costs	1.00	\$ (0)
Change in Public Agencies Costs (Efficiency Induced)	1.00	\$ 0
Other Calculated Benefits	1.00	\$ (0)
User Defined Additional Benefits	1.00	\$ 0
Total Annual Benefits		\$ 1,194,913
 Annual Costs		
Average Annual Private Sector Cost		\$ 0
Average Annual Public Sector Cost		\$ 232,876
Total Annual Cost		\$ 232,876
 Benefit/Cost Comparison		
Net Benefit (Annual Benefit - Annual Cost)		\$ 962,037
B/C Ratio (Annual Benefit/Annual Cost)		5.13

**Table T-3. Benefit/Cost Summary for Gateway
Traffic Responsive Signal Timing**

Annual Benefits (Benefits are reported in 2003 dollars)	Weight	Traffic Responsive Signal Timing
Change in User Mobility	15.00	\$ 133,874
Change In User Travel Time		
In-Vehicle Travel Time	1.00	\$ 0
Out-of-Vehicle Travel Time	1.00	\$ 0
Travel Time Reliability	1.00	\$ (0)
Change in Costs Paid by Users		
Fuel Costs	1.00	\$ 1,065
Non-fuel Operating Costs	1.00	\$ 31
Accident Costs (Internal Only)	1.00	\$ (166)
Change in External Costs		
Accident Costs (External Only)	1.00	\$ (29)
Emissions		
HC/ROG	1.00	\$ 45
NOx	1.00	\$ (21)
CO	10.00	\$ 12,065
PM10	1.00	\$ (0)
CO2	0.00	\$ (0)
Global Warming	0.00	\$ (0)
Noise	0.00	\$ (0)
Other Mileage-Based External Costs	1.00	\$ (0)
Other Trip-Based External Costs	1.00	\$ (0)
Change in Public Agencies Costs (Efficiency Induced)	1.00	\$ 0
Other Calculated Benefits	1.00	\$ (0)
User Defined Additional Benefits	1.00	\$ 0
Total Annual Benefits		\$ 146,864
Annual Costs		
Average Annual Private Sector Cost		\$ 0
Average Annual Public Sector Cost		\$ 27,537
Total Annual Cost		\$ 27,537
Benefit/Cost Comparison		
Net Benefit (Annual Benefit - Annual Cost)		\$ 119,328
B/C Ratio (Annual Benefit/Annual Cost)		5.33

Table T-5. Benefit/Cost Summary for 10-Year Eugene-Springfield ITS Plan

Annual Benefits (Benefits are reported in 2003 dollars)	Weight	10-Year ITS Plan
Change in User Mobility	0.00	\$ (0)
Change In User Travel Time		
In-Vehicle Travel Time	5.00	\$ 2,098,551
Out-of-Vehicle Travel Time	5.00	\$ 2,180,859
Travel Time Reliability	0.00	\$ (0)
Change in Costs Paid by Users		
Fuel Costs	1.00	\$ 10,787,497
Non-fuel Operating Costs	1.00	\$ 23,378
Accident Costs (Internal Only)	1.00	\$ 6,597,575
Change in External Costs		
Accident Costs (External Only)	1.00	\$ 1,164,264
Emissions		
HC/ROG	0.50	\$ 136,588
NOx	0.50	\$ 639,003
CO	0.50	\$ 1,628,961
PM10	1.00	\$ (0)
CO2	0.00	\$ (0)
Global Warming	0.00	\$ (0)
Noise	0.00	\$ (0)
Other Mileage-Based External Costs	1.00	\$ (0)
Other Trip-Based External Costs	1.00	\$ (0)
Change in Public Agencies Costs (Efficiency Induced)	1.00	\$ 0
Other Calculated Benefits	1.00	\$ (0)
User Defined Additional Benefits	1.00	\$ 0
Total Annual Benefits		\$ 25,256,676
Annual Costs		
Average Annual Private Sector Cost		\$ 0
Average Annual Public Sector Cost		\$ 2,408,788
Total Annual Cost		\$ 2,408,788
Benefit/Cost Comparison		
Net Benefit (Annual Benefit - Annual Cost)		\$ 22,847,888
B/C Ratio (Annual Benefit/Annual Cost)		10.49

