

APPENDIX S

REDUCTION OF I/M PROGRAM CREDIT IN 4-COUNTY
AREA TO ACCOUNT FOR NON-I/M COMMUTER TRAFFIC

DALLAS/FORT WORTH ATTAINMENT DEMONSTRATION

APRIL 2000 REVISION

Reduction of I/M Program Credit in 4-County Area to Account for Non-I/M Commuter Traffic

Emission credits for the Inspection/Maintenance (I/M) Program were adjusted to account for those vehicles which travel into the 4-County (Dallas, Tarrant, Collin, & Denton) area from surrounding counties which would not be subject to an I/M Program. In order to develop the appropriate credit adjustments, the latest available 1990 U.S. Census data were used which summarized the contribution of work commuters by county of residence to overall traffic in the 4-County area. The Census data which were used covered a total of 30 north central Texas counties which comprise and surround the greater Dallas/Fort Worth (DFW) metropolitan area. Three different I/M coverage scenarios were investigated. In the first, I/M was modeled for the 12 counties which comprise the DFW metropolitan statistical area (MSA). The I/M program credit was reduced by 1.2% to account for vehicles traveling in from 18 surrounding counties which are not subject to an I/M test. Under the 9-County I/M scenario, the credit reduction factor increases to 1.8% to account for the fact that non-I/M traffic would be coming from 21 surrounding counties instead of just 18. The last scenario investigated modeled I/M in only 7 counties, with the a credit reduction factor of 3.9% to be applied to account for traffic from 23 non-I/M counties.

<i>Counties of Vehicle Residence</i>	<i>Portion of 4-County Traffic</i>
<u>12-County I/M Scenario</u>	
4-Counties: Dallas, Tarrant, Collin, & Denton	94.2%
8-Counties: Ellis, Henderson, Hood, Hunt, Johnson, Kaufman, Parker, & Rockwall	4.6%
I/M Credit Reduction Factor for Non-I/M Traffic from 18 Surrounding Counties	1.2%
<u>9-County I/M Scenario</u>	
4-Counties: Dallas, Tarrant, Collin, & Denton	94.2%
5-Counties: Ellis, Johnson, Kaufman, Parker, & Rockwall	4.0%
I/M Credit Reduction Factor for Non-I/M Traffic from 21 Surrounding Counties	1.8%
<u>7-County I/M Scenario</u>	
4-Counties: Dallas, Tarrant, Collin, & Denton	94.2%
3-Counties: Ellis, Kaufman, & Rockwall	1.9%
I/M Credit Reduction Factor for Non-I/M Traffic from 23 Surrounding Counties	3.9%