

Motor Vehicle Emission Simulator (MOVES) 2010

User Guide



United States
Environmental Protection
Agency

Motor Vehicle Emission Simulator (MOVES) 2010

User Guide

Assessment and Standards Division
Office of Transportation and Air Quality
U.S. Environmental Protection Agency

Table of Contents

	<u>Page</u>
1.0. Getting Started with MOVES	4
1.1 About MOVES	4
1.2 MOVES Documentation	5
1.2.1 About this Manual	5
1.2.2 Other Documentation and Online Help	5
1.2.3 What's Next? Working with MOVES	6
1.3 Installation	7
1.3.1 System Requirements	7
1.3.2 Starting and Testing Your Installation	8
1.4 Executing Example Run Specification	9
1.4.1 Step-by-step Example Run	9
1.4.2 MOVESExecution Database	9
1.4.3 MOVES Output Structure	10
2.0 Using MOVES	12
2.1 Overview of MOVES User Interface	13
2.2 Navigation Panel	15
2.2.1 Description	16
2.2.2 Scale	17
2.2.2.1 Domain/Scale	17
2.2.2.2 Calculation Type	19
2.2.3 Time Spans	20
2.2.3.1 Time Aggregation Level	20
2.2.3.2 Years	21
2.2.3.3 Months	22
2.2.3.4 Days	22
2.2.3.5 Hours	22
2.2.4 Geographic Bounds	22
2.2.5 Vehicles/Equipment	29
2.2.6 Road Type	30
2.2.7 Pollutants and Processes	31
2.2.7.1 Processes	33
2.2.7.2 Pollutants	33
2.2.8 Manage Input Data Sets	34
2.2.9 Creating and Using Internal Control Strategies	36
2.2.9.1 Adding Strategy Files	37
2.2.9.2 Deleting Strategy Files	38
2.2.9.3 Exporting Strategy Files	38
2.2.9.4 Naming Strategy Files	39
2.2.9.5 Saving and Transferring Strategy Files	39
2.2.9.6 Creating AVFT files outside of MOVES	39
2.2.9.7 Managing On-Road Vehicle Retrofit Data	40
2.2.9.8 Importing Retrofit Data	41
2.2.9.9 Rate of Progress Calculation	42
2.2.10 Output	43
2.2.10.1 Specifying Database, Time Period, and Units in Output	43
2.2.10.1.1 Output Database	43
2.2.10.1.2 Units	44