

APPENDIX 16C – SAMPLE MOVES TRAFFIC DATA INPUT

The tabular data shown on the following pages are from a statewide MOVES input file for 2045. This file used VMT developed from ODOT AADT summaries and HPMS (Highway Performance Monitoring System) vehicle classifications instead of using travel model-based segment data and supplemental vehicle class information. Files for other project types may have different inputs, so this appendix is just to show general inputs and formats. Only traffic-related tabs are included. Some values are rounded to improve readability, and some data listings are truncated to fit on the page.

MOVES Source types used in this file (not inclusive of all types, but most that line up with typical available traffic data):

Source Type ID	Source Type definition
21	Passenger cars
31	Passenger truck (SUV/pickup)
32	Light commercial truck
52	Single-unit short-haul truck
53	Single-unit long-haul truck
61	Combination short-haul truck
62	Combination long-haul truck

MOVES road types used in this file:

Road Type ID	Road Type Definition
1	Off-network
2	Rural restricted access
3	Rural unrestricted access
4	Urban restricted access
5	Urban unrestricted access

HPMS Vehicle Types used in this file (not inclusive). These correspond with the MOVES-based light vehicles, medium trucks and heavy trucks.

HPMS Vehicle Type ID	Vehicle Classification
25	Light vehicles
50	Single-unit vehicles
60	Combination vehicles

“roadTypeDist” : VMT decimal fraction by vehicle classification (source type) and roadtype.
Note for each sourcetype, the four roadtypes sum to 1.0000 (100%).

sourceTypeID	roadTypeID	roadTypeVMTFraction
21	2	0.0473
21	3	0.0923
21	4	0.3678
21	5	0.4926
31	2	0.0473
31	3	0.0923
31	4	0.3678
31	5	0.4926
32	2	0.0436
32	3	0.1348
32	4	0.3854
32	5	0.4361
52	2	0.0436
52	3	0.1348
52	4	0.3854
52	5	0.4361

53	2	0.0436
53	3	0.1348
53	4	0.3854
53	5	0.4361
61	2	0.2235
61	3	0.0992
61	4	0.5247
61	5	0.1526
62	2	0.2235
62	3	0.0992
62	4	0.5247
62	5	0.1526

“avgSpeedDist”: Average speed distribution showing VMT speed decimal fraction sorted into the 16 speed bins by sourcetype, roadtype, and hour of the day. Data is only shown for Sourcetype “21” (passenger cars) for Roadtypes”2” (rural unrestricted) & “3” (urban restricted) for the analyzed hour “15” (3-4 PM). This data is repeated for each source type and roadtype. Note that the VMT speed fraction sums to 1.0000 (100%) across the 16 speed bins for a single sourcetype and roadtype.

sourceTypeID	roadTypeID	hourDayID	avgSpeedBinID	avgSpeedFraction
21	2	15	1	0.0000
21	2	15	2	0.0000
21	2	15	3	0.0000
21	2	15	4	0.0000
21	2	15	5	0.0000
21	2	15	6	0.0008
21	2	15	7	0.0000
21	2	15	8	0.0077
21	2	15	9	0.0067

21	2	15	10	0.0034
21	2	15	11	0.0000
21	2	15	12	0.2396
21	2	15	13	0.2042
21	2	15	14	0.2315
21	2	15	15	0.3060
21	2	15	16	0.0000
21	3	15	1	0.0000
21	3	15	2	0.0000
21	3	15	3	0.0000
21	3	15	4	0.0000
21	3	15	5	0.2039
21	3	15	6	0.0114
21	3	15	7	0.0179
21	3	15	8	0.0445
21	3	15	9	0.2046
21	3	15	10	0.2531
21	3	15	11	0.0366
21	3	15	12	0.2280
21	3	15	13	0.0000
21	3	15	14	0.0000
21	3	15	15	0.0000
21	3	15	16	0.0000

“HPMSVTypeDay”: Total VMT for certain year, month and day (January & July 5th, 2045) from HPMS (Highway Performance Monitoring System) vehicle types. MOVES will use this data to translate to its source types.

HPMSVTypeID	yearID	monthID	dayID	VMT
25	2045	1	5	27403319
25	2045	7	5	27403319
50	2045	1	5	1692504
50	2045	7	5	1692504
60	2045	1	5	1396386
60	2045	7	5	1396386

“hourVMTfraction”: VMT decimal fraction by sourcetype (vehicle class), roadtype and by hour of the day for the 5th day of the month. This data is only shown for sourcetype 21 (passenger cars) and roadtype “1” off-network across the 24 hours of the day. This data is repeated for each sourcetype and for each roadtype within that sourcetype for each hour.

sourceTypeID	roadTypeID	dayID	hourID	hourVMTFraction
21	1	5	1	0.0099
21	1	5	2	0.0063
21	1	5	3	0.0051
21	1	5	4	0.0047
21	1	5	5	0.0070
21	1	5	6	0.0185
21	1	5	7	0.0460
21	1	5	8	0.0696
21	1	5	9	0.0608
21	1	5	10	0.0503
21	1	5	11	0.0499
21	1	5	12	0.0544
21	1	5	13	0.0576

21	1	5	14	0.0580
21	1	5	15	0.0623
21	1	5	16	0.0710
21	1	5	17	0.0770
21	1	5	18	0.0774
21	1	5	19	0.0598
21	1	5	20	0.0444
21	1	5	21	0.0354
21	1	5	22	0.0318
21	1	5	23	0.0249
21	1	5	24	0.0179