





























Use	ers can now (obtain output by EPA Regulatory Class
ID	regClassName	regClassDesc
10	MC	Motorcycles
20	LDV	Light Duty Vehicles
30	LDT	Light Duty Trucks
40	LHD <=10 K	Class 2b Trucks with 2 axles and 4 tires (8500 lbs < GVWR <=10,000 lbs)
41	LHD <=14 K	Class 2b Trucks with 2 axles and at least 6 tires Or Class 3 Trucks (8500 lbs < GVWR <=14,000 lbs)
42	LHD45	Light Heavy Duty (14,000 lbs < GVWR <=19,500 lbs)
46	MHD	Medium Heavy Duty (19,500 lbs < GVWR <=33,000 lbs)
47	HHD	Heavy Heavy Duty (GVWR > 33,000 lbs)
48	Urban Bus	Urban Bus (see CFR Sect. 86.091_2)







MOVES - ID 1215676868787638190	vols Settinos Help	
Description	aa Kaanka Kak	
Scale		
Time Searce		
So Time Spans		
Geographic Bounds		
Vehicles/Equipment	Onroad	
NonRoad Vehicle Equipment	Nonroad	
Road Type	Domain/Scale	
	National	
Pollatants And Processes	O County	
😂 Manage Input Data Sets	Calculation Type	
+ Strategies	Inventory Mass and/or Energy within a region and time span.	
	O Emission Rates Mass and/or Energy per unit of activity.	
Contract	MOVESScenarioID:	
General Output	Caution: Changing these selections changes the contents of other	
Output Emissions Detail	mper paneta. Treba caungas may include roamy pravious cara contenta.	
Advanced Performance Features		



MOVES - C:\Users\bvangess\Desktop\MOVES	webinar files/webinar.mrs - ID 16412796189858-	12892		
Description	Fuels:	Sectors:	Selections:	
Scale	Dines froi Directicity Electricity Elano((E.65) Gastiline Liquefind Petroleum Gas (LPG)	Aginor Support Commercial Construction Industrial Looging Odi Faid Pleasare Craft Recreational Underground Mining	Review available Nonroad Fuels and Sectors	
Ceneral Output	Select All Add FeetSec NonRoad Vehicle Equipment Regu Please select a Fuel and Sector combin	tor Combinations	Select AB	Dete

🕐 моч	/ES - ID 1215676868787638180				000	
	Description Scale Time Spans	Total Gaseous Hydrocarbons Carbon Monoulde (CO) V Ordides of Nitrogen (Nor) Ammonia (NH3) Primary Exhaust PMX25 - Total Primary Exhaust PMX25 - Total	Running Exhaust	Crankcase Running Exhaust	Retueling Displacement Vapor Loss	tefuelin
	Geographic Bounds Vehicles:Equipment NonRoad Vehicle Equipment	Suttur Diouside (BO2) Brake Specific Fuel Consumption (BSFC) Atmospheric CO2		Select desired	l pollutant/proces	s
	Road Type Policianis And Processes Manage input Data Sets					
	Strategies Output General Output		1			
	Output Emissions Detail Advanced Performance Features	Select Prerequisites				

MOVES - C:\Users\bvanges le Edit Pre Processing	s\Desktop\MOVES webinar files\webinar.mrs Action Post Processing Tools Settin	- 1D 1641279618985842892 gs Help			
Description	Run MySQL Script on Output Dat Run MySQL Script on Nonroad O Produce Summary Report Produce State/County Map	abase utput Database	Nonroa	d post- sing scripts are	
🏹 Time Spans			availab	le	
Geographic Bou	nds	Output Database			
C Vehicles/Equipm	ient	Server:		Refresh	
NonRoad V	ehicle Equipment	Database: webinar_ou	t	Create Database	
Road Type		Units			
S Pollutants And P	rocesses	Mass Units: Gra	ms 💌		
Manage input Da	ita Sets	Energy Units: Jou Distance Units: Mile	s v		
Strategies			Contra Contra		
General Os	storet				
Output Emi	issions Detail				
Advanced Perfor	rmance Features				





V MOVES County Data Manager O Unicide Type VIII O Hoteling O 180 Proy Ramp Fraction O Road Type Run Spec Summary Database Age Distri Description of Imported Data:	grams O Retroft Data O Generic Tools Distribution O Source Type Population Battion O Average Speed Distribution O Fuel	Starts Meteorology Data	HPMS vehicle type IDs have changed
HPMSVTypeYear Data Source: File: (please select a file)		Browse	Now vehicle type 25
	Clear Imported Data	Create Template	New vehicle type 25
monthVMTFraction Data Source: File: (please select a file)		Browse	renlaces vehicle types
Last Datage association	Clear Imported Data	Create Template	replaces verificie types
dayVMTFraction Data Source:		Create rempiatoria	20 and 30
File: (please select a file)		Browse	20 4114 30
	Clear Imported Data	Create Template	
hourVMTFraction Data Source:			
File: (please select a file)		Browse	
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Messages:			
Export Details Data	export imported Data	- In True Mart	
	Vehi	cie Type VMT	
		Done	



Vehicle Type VMT County Data Manager Vehicle Type VMT County Hotelling County Pro Ramp Fraction County Road Type	ograms 🔗 Retrofit Data 🧐 Generic 🛛 Tools 🖉 e Distribution 🔗 Source Type Population 🔗 S	Updated fuel
RunSpec Summary Database V Age Dist Description of Imported Data:	tribution Speed Distribution Fuel Speed Distribution	supply/formulation
	Fuels Wizard	information has been
FuelSupply Data Source: File: (please select a file)	Clear Imported Data Create Templa	provided for all
FuelFormulation Data Source:	Create rempines suita Create rempin	counties now
Messages:	Import	organized by
		C C
Export Default Data	Export Imported Data	Ethanol (F-85) added
		to default fuels

13121 13121	2024	0			•
13121	0004			1	1
40404	2024	0	2	2 2	1
13121	2024	0	3	3 3	1
13121	2024	0	6	5 1	0.792421
13121	2024	0	5	5 5	0.207579
exan icles on Co tions	nple ta use co ounty, s of 1 a	ble (above) nventional g Georgia in t	shows that 7 gasoline and 2 he MOVES de uired for sour	/9.2% o 20.8% เ efault cebinfu	f E-85 capab ise E-85 for ieltypeID 1, 2
	usag cles bline aults exan cles on Co	usagefracticles that us oline aults are avectic example ta cles use co on County,	usagefraction specifies cles that use E-85 (sou bline aults are available, but example table (above) cles use conventional g on County, Georgia in t	usagefraction specifies the fraction cles that use E-85 (sourcebinfueltyp bline aults are available, but this table is r cexample table (above) shows that 7 cles use conventional gasoline and 2 on County, Georgia in the MOVES de tions of 1 are also required for sour	usagefraction specifies the fraction of E-85 cles that use E-85 (sourcebinfueltypeid 5) v pline aults are available, but this table is required example table (above) shows that 79.2% o cles use conventional gasoline and 20.8% u on County, Georgia in the MOVES default tions of 1 are also required for sourcebinfu

New Input Options – FuelUsageFraction countyID fuelYearID modelYearGroupID sourceBinFuelTypeID fuelSupply usageFraction 1 0.792421 5 0.207579 • What if your county does not use E-85? How should this table be changed? • Fuelusagefraction: the fraction of E-85 capable vehicles that use E-85 (sourcebinfueltypeid = 5) vs. conventional gasoline • If your county does not use E-85, then: • 100% of E-85 capable vehicles use conventional gasoline; change 0.792421 to "1" • 0% of E-85 capable vehicles use E-85; change 0.207579 to "0" **Sepa**

V MOVES County Data Manager Vehicle Type VAIT O Hotelling O LIM Pro Ran Spec Summary Database O Age Distr Description of Imported Data:	prams © Retrofit Data © Generic Tools Distribution © Source Type Population Bution © Average Speed Distribution © Fuel Field	Starts Meteorology Data	 The Fuels Wizard allows the user to customize a fuel for their area based on known fuel properties
Freif-Supply Data Source: File: (please select a file) Feelf-ormulation Data Source: Kite: (release select a file) Messages:	Clear Imported Data Cre	Browse	 Begin with the default fuel and edit the known properties (e.g., RVP); the Wizard will automatically adjust other properties to be consistent
Export Default Data	Export Imported Data	Fuel Done	 If you have multiple properties to change, begin with the least important or least certain first
		•	 The adjustments are based on EPA refinery modeling

🕚 Fuels Wizard	
	Select fuels to modify
Select Region	Fuel Mo Fu RVP Sul Eth T50 T90 Aroma Olefi Benz E200 E300 Bio Cet PAH MTBE ETBE TAME
1700000	00 2024 1 3 0.0 8 0 0.00 0.00 0.00 0.00 0.00 0.00
1700000	00 2024 1 1 11.8 10 10 189.39 324.68 17.63 9.33 0.61 55.11 84.04 0 0 0 0 0.00 0.00 0.00
1700000	00 2024 1 1 10.8 10 15 176.68 322.54 15.59 8.13 0.61 61.34 84.51 0 0 0 0.00 0.00 0.00
1700000	00 2024 1 2 0.0 15 0 0.00 0.00 0.00 0.00 0.00 0.00
1700000	00 2024 1 5 10.5 8 74 200.00 300.00 0.00 0.00 49.90 89.50 0 0 0 0.00 0.00 0.00 0.00
	Dono Coloulato >
	Done Calculate >
• Selec exam	et desired fuel, and change fuel property – in this apple, RVP is changed from 11.8 to 7 click "Calculate"
• Selec exam	t desired fuel, and change fuel property – in this pipe, RVP is changed from 11.8 to 7 click "Calculate"
 Selection exam Fuels Wizard 	t desired fuel, and change fuel property – in this ople, RVP is changed from 11.8 to 7 click "Calculate"
Select Exam Fuels Wizard Select Region	t desired fuel, and change fuel property – in this pple, RVP is changed from 11.8 to 7 click "Calculate"
Select Exam Fuels Wizard Select Region 1700000	t desired fuel, and change fuel property – in this pple, RVP is changed from 11.8 to 7 click "Calculate"
Select Exam Evels Wizard Select Region 1700000	t desired fuel, and change fuel property – in this ple, RVP is changed from 11.8 to 7 click "Calculate" Image: Change of the state o
Select Exam Fuels Wizard Select Region Did 1700000 New 1700000	t desired fuel, and change fuel property – in this pple, RVP is changed from 11.8 to 7 click "Calculate" <u>Changes</u> <u>Fuel. Mo. Fu. RVP Sul. Eth. T50 190 Aroma Otell. Benz E200 E300 Bio. Cel. PAH MTBE ETBE TAME <u>00 2024 1 111.8 10 10 189.29 324.68 17.63 9.33 0.61 55.61 84.26 0 0 0 0.000 0.00 0.00 0.00</u></u>
Select Region Did 17000001	t desired fuel, and change fuel property – in this pile, RVP is changed from 11.8 to 7 click "Calculate" Image: State of the state o
Select exam Fuels Wizard Select Region 1700000 New 1700000	t desired fuel, and change fuel property – in this ple, RVP is changed from 11.8 to 7 click "Calculate" Image: Change 1 1 <tr< th=""></tr<>
Select exam vest vest exam vest reds vest red roocoor vest vest	t desired fuel, and change fuel property – in this ple, RVP is changed from 11.8 to 7 click "Calculate" Image: Change of the state o
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Select exam vew intervention	Et desired fuel, and change fuel property – in this pile, RVP is changed from 11.8 to 7 click "Calculate" Image: Change fuel property – in this pile, RVP is changed from 11.8 to 7 click "Calculate" Image: Change fuel property – in this pile, RVP is changed from 11.8 to 7 click "Calculate" Image: Change fuel property – in this pile, RVP is changed from 11.8 to 7 click "Calculate" Image: Change fuel property – in this pile, RVP is changed from 11.8 to 7 click "Calculate" Image: Change fuel property – in this pile, RVP is changed from 11.8 to 7 click "Calculate" Image: Change fuel property – in this pile, RVP is changed from 11.8 to 7 click "Calculate" Image: Change fuel property – in this pile, RVP is changed from 11.8 to 7 click "Calculate" Image: Change fuel property – in this pile, Cet PAH MTBE FTBE TAME for pile, RVP is pile, Cet PAH MTBE FTBE TAME for pile, RVP is pile, Cet PAH MTBE FTBE TAME for pile, RVP is pile, Cet PAH MTBE FTBE TAME for pile, RVP is p
Select exam veint v	Line Colspan="2">Line Colspan="2" Colspan="
Select exam Fuels Wizard Select Region Old 1700000 New 1700000	Line of the level of the le
Select exam V Fuels Wizard Select Region Old 1700000 New 1700000	Changes Fuel NO Fuel Fuel NO 0

VMORE County Date Manager Vetaciae Type VMT Note Manager Vetaciae Type VMT Note Manager Note Manage	• The retrofit importer (formerly in the runspec of MOVES2010b) is now located in the
Messages:	Use to model diesel retrofit programs
Retrofit Data	 This is an optional input



MOVES County Data Manager WhorkS County Data Manager Materica Type VIT (V Hooking) IM Manager Materica Coopy Data Manager Sammary Database Description of Imported Data:	rograms 🧭 Retrolit Data 🤗 Generic Too 📽 Road Type Distribution 🌍 Source Type PA Age Distribution 🌍 Average Speed Distri	is Starts opulation Starts bution Fuel	 The Hotelling input allows users to describe long-haul combination truck hotelling behavior
hotellisgActivityDistribution Data Source: File: (please select a life) hotellingHours Data Source: File: (please select a life)	Clear Imported Outa	Browse Create Template Browse	 The two panels are: hotellingactivitydistri bution and hotellinghours
Messages:	Loss sportes bas	Import	 Both are optional inputs Output in Rates mode is provided in the ratepervehicle table, but also in a new
Export Default Data	Export Imported Data	Hotelling	rateperhour table. <i>Only</i> one should be used depending on if activity is available in terms of vehicle population or hotelling hours

New Input Options – Hotelling • The hotellingactivitydistribution table is used to define the fraction of trucks in each of four modes of hotelling activity: • 200 – Extended Idling • 201 – Auxiliary Power Units (APUs) • 203 - Battery Power • 204 – Engine Off · The example shows the national default fractions beginModelYearlD endModelYearlD opModeID opModeFraction 0.7 0.3 \$epa

urDayID mor	ithID ye	earlD age	ID z	conelD sou	исеТур	hotellingHo	• The hotellinghours table i
15	1	2024	30	131210	62	0	
15	1	2024	29	131210	62	0	used to define the total
15	1	2024	28	131210	62	0	number of hotelling hours
15	1	2024	27	131210	62	0	in your modeling domain
15	1	2024	26	131210	62	0	in your modeling domain
15	1	2024	25	131210	62	0.033932	In MOVES2014 ovtended
15	1	2024	24	131210	62	0.146956	
15	1	2024	23	131210	62	0.141804	idle hours are allocated to
15	1	2024	22	131210	62	0.113281	counties based on rural
15	1	2024	21	131210	62	0.129963	combination truck V/MT
15	1	2024	20	131210	62	0.23111	
15	1	2024	19	131210	62	0.102025	in MOVES2010b it was
15	1	2024	18	131210	62	0.409672	based on long-haul
15	1	2024	17	131210	62	0.397336	combination truck
15	1	2024	16	131210	62	0.402312	complination truck
15	1	2024	15	131210	62	0.737026	population
15	1	2024	14	131210	62	0.82595	
15	1	2024	13	131210	62	1.388	 This input can be used to
15	1	2024	12	131210	62	1.41376	override the defaults and
15	1	2024	11	131210	62	1.52765	provide local botelling
15	1	2024	10	131210	62	1.05556	provide local notelling
15	1	2024	9	131210	62	2.35206	hours (if available)
15	1	2024	8	131210	62	1.73303	
15	1	2024	7	131210	62	3.48606	 Note that hotelling hours
15	1	2024	6	131210	62	1.39675	are hy "day-type"
15	1	2024	5	131210	62	2.19772	
15	1	2024	4	131210	62	2.56074	 day 5 = 5 weekdays
15	1	2024	3	131210	62	5.66776	, day 2 - 2 weekend day
15	1	2024	2	131210	62	4.5037	 uay z = z weekend day
15	1	2024	1	131210	62	3.1559	
15	1	2024	0	131210	62	3 07248	







zonelD 131210 131210	daylD	hourlD 5 5	allocationFraction 1 2	 The startshourfraction importer is used to define the
131210		5	3	distribution of total starts
131210		5	4	
131210		5	6	across the day
131210		5	7	
131210		5	8	 Different distributions can be
131210		5	9	provided for each day type
131210		5 1	10	provided for each day type
131210		5 1	11	 This input can be used
131210		5 1	12	· This input call be used
131210		5 1	13	independently, or in
131210		5 1	14	combination with
131210		5 1	15	
131210		5 1	15	startsperday.
131210		5 1	18	
131210		5 1	19	startssource speraction,
131210		5 2	20	and startsMonthAdiust

New Input Options – StartsSourceTypeFraction

sourceTypeID	allocationFraction
11	
21	
31	
32	
41	
42	
43	
51	
52	
53	
54	
61	
62	

- The startssourcetypefraction importer is used to define the distribution of total starts by source type
- This input can be used independently, or in combination with startsperday, startshourfraction, and startsMonthAdjust

Sepa 🕉



sourceTyp ho	urDayID	linkID	polProcessop	ModelD opModel	raction	The startsonmodedistribution
11	15	1312101	302	101		The startsopmodedistribution
11	15	1312101	302	102		importer is used to define the
11	15	1312101	302	103		
11	15	1312101	302	104		distribution of soak times by
11	15	1312101	302	105		sourcetype hour and dayID
11	15	1312101	302	106		sourcetype, nour, and dayib
11	15	1312101	302	107		Four costs and the strengt
11	15	1312101	302	108	•	For each combination of
11	25	1212101	302	101		sourcetype hourDavid and
11	25	1312101	302	102		sourcetype, nourbayia, and
11	25	1312101	302	104		polprocessID, opmodefractions
11	25	1312101	302	105		should sum to 1
11	25	1312101	302	106		
11	25	1312101	302	107		
11	25	1312101	302	108	•	The table below shows the
11	35	1312101	302	101		available soak times
11	35	1312101	302	102		available soak times
11	35	1312101	302	103		opModeID opModeName
11	35	1312101	302	104		101 Soak Time < 6 minutes
11	35	1312101	302	105		102.6 minutes <= Seek Time < 30 minutes
11	35	1312101	302	106		102 0 minutes <= Soak mine < So minutes
11	35	1312101	302	107		103 30 minutes <= Soak Time < 60 minutes
	46	1302101	30.3	1081		104 60 minutes <= Soak Time < 90 minutes
						105 90 minutes <= Soak Time < 120 minutes
						106 120 minutes <= Soak Time < 360 minute
						107 260 minutes <= Soak Time < 720 minute
						107 300 minutes <= Soak mine < 720 minute
						108 /20 minutes <= Soak Time







a Tools Settings Help		Constant Constant Constant Constant
Multiple Run Sper Creator Process DONE Files Convert MOVE S2010B County or Project input to MOV Convert MOVE S2010B County or Project input to MOV Output Database Server: Database: Units Mass Units: Distance Units: Distance Units:	E 52014 E 52010B	Database
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Convert Datable Instructions This tool converts MOVES2014 form Use the "Browse file Convert20100 Select a MOVES Database". This database in orde Enter the name of Use the "Convert the databases yo Conversion Scrip File: Databases Server: Input Database:	See	 Steps: Select the existing 2010b database from dropdown menu Give the new converted database a unique name See pg 50 of the MOVES2014 User Interface Manual for instruction on batch conversion: http://www.epa.gov/otaq/models/moves/documents/420b14057.pdf
Nessages:		

1 HPMSV	typeID	📍 yearlD	VMTGrowthFac	HPMSBaseYea	baseYearOffNe	$6 \rightarrow 5$ Vehicle Classes:
•	10	2024	0	65553800	NULL	
	20	2024	0	4199070000	NULL	• HPMS now classifies
	30	2024	0	10155400000	NULL	20s and 30s as
	40	2024	0	56920300	NULL	short/long whoolbase
	50	2024	0	632594000	NULL	
	60	2024	0	951305000	NULL	• The converters sums
1 HPMSV	typeID	📍 yearlD	VMTGrowthFac	HPMSBaseYea]	single light-duty
•	10	2024	0	65553800		category (25)
	25	2024	0	14354400000		
	40	2024	0	56920300		
	50	2024	0	632594000		
	60	2024	0	951305000		

13121 2012 1 20011 1 13121 2012 1 3836 1 13121 2012 7 20011 1 13121 2012 7 3847 1	0.5 0.5 0.5
13121 2012 1 3836 1 13121 2012 7 20011 1 13121 2012 7 3847 1	0.5
13121 2012 7 2001 1 13121 2012 7 3847 1	0.0
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fuelRegionID ? fuelYearID ? monthGroupID ? fuelFormulati marketShare marketShare	eCV
170000000 2012 1 20011 1	0.5
170000000 2012 1 3836 1	0.5
170000000 2012 7 20011 1	0.5
170000000 2012 7 3847 1	0.5









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MySOL Workbench											60	1.	×
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Coming Soon!
MOVES2014 Hands-On Training Course for New Users
NOTE: Not recommended if you've already taken the 2-day MOVES2010 training
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