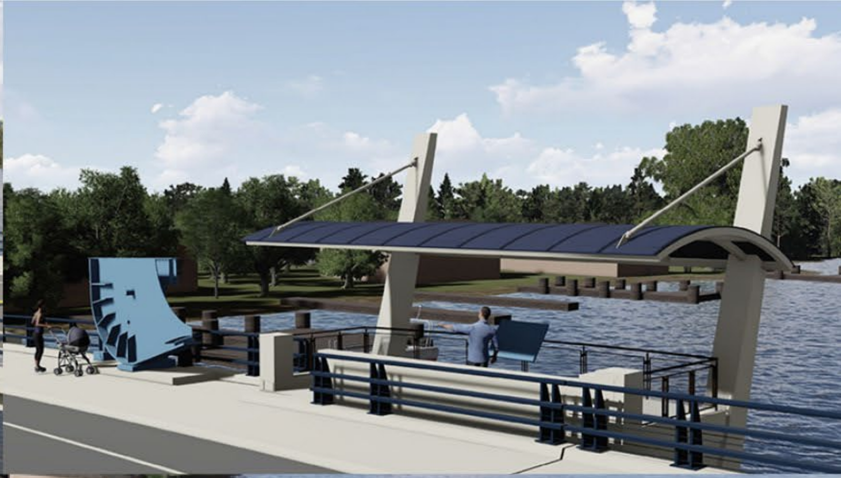

Beckett Bridge Replacement

Tarpon Springs, FL

B. Benefit-Cost Analysis Spreadsheets

Bridge Investment Program (BIP)
Grant Application

SEPTEMBER 2022

Contact

Pinellas County Board of County Commissioners

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Beckett Bridge Replacement

[CLIENT]

Benefit Cost Analysis Model

This model contains all calculations used in the Benefit Cost Analysis for this project. The legend below provides guidance on the role of each tab, and the meaning of different colors and shading throughout the model.

Tab Reference

- 🟦 Aqua Shading - Intro Materials
- 🟩 Lime Green Shading - Standard Input Values, reflecting guidance from USDOT and other sources
- 🟧 Orange Shading - Project Input Values and intermediate calculations, reflecting project-specific information
- ⬜ Light Pink Shading - Calculations
- 🟪 Purple Shading - Aggregated Values, Benefits, and Costs
- 🟦 Blue Shading - Output Tables and Charts

Cell Reference

- 🟩 Light Green Cell Shading - Model Owner Input Value
- 🟨 Light Yellow Cell Shading - User Input Value
- Blue Text - Import from Another Sheet
- Red Text - Exported to Another Sheet
- *Purple Italicized Text - Additional Model Guidance*

Source: https://www.transportation.gov/sites/dot.gov/files/2022-03/B https://apps.bea.gov/iTable/iTable.cfm?reqid=19&step=3&isuri=1&1921=survey&1903=1

Base Year of Nominal Dollar	Multiplier to Adjust to Real 2020$	Implicit Price Deflator for GDP		
2001	1.4245	79.7830		
2002	1.4026	81.0260		
2003	1.3755	82.6250		
2004	1.3395	84.8430		
2005	1.2988	87.5040		
2006	1.2599	90.2040		
2007	1.2267	92.6420		
2008	1.2037	94.4190		
2009	1.1960	95.0240		
2010	1.1818	96.1660		
2011	1.1577	98.1640		
2012	1.1365	100.0000		
2013	1.1169	101.7510		
2014	1.0964	103.6540		
2015	1.0856	104.6910		
2016	1.0748	105.7400		
2017	1.0548	107.7470		
2018	1.0302	110.3210		
2019	1.0121	112.2940		
2020	1.0000	113.6480		
2021	0.9601	118.3710		
2022	0.8800	129.1428	9.10%	https://ww
2023	0.8587	132.3415	2.48%	https://ww
2024	0.8380	135.6195	2.48%	https://ww
2025	0.8177	138.9787	2.48%	https://ww
2026	0.7980	142.4211	2.48%	https://ww
2027	0.7787	145.9488	2.48%	https://ww
2028	0.7599	149.5638	2.48%	https://ww
2029	0.7415	153.2684	2.48%	https://ww
2030	0.7236	157.0647	2.48%	https://ww

	Variable	Source	Units	Constant (Likely Case)	Baseline	Low	High						
GENERAL													
	Scenario	User Input		BASELINE									
	Model Start Year		year	2021									
	Base Year (for valuation 2020		year	2020									
	Base Year (for discounting)		year	2020									
	Base Year Unit			2020$									
	Average Vehic	USDOT BCA G	Figure	1.67									
	Average Vehic	USDOT BCA G	Figure	1.48									
	Average Vehic	USDOT BCA G	Figure	1.58									
	Average Vehic	USDOT BCA G	Figure	2.02									
	Average Vehic	USDOT BCA G	Figure	1									
FACTORS													
	Million			1,000,000									
	Grams to metric ton conversi		Factor	0.00000100000									
	Grams to short ton conversio		Factor	0.00000110231									
	Lbs to metric ton conversion		Factor	0.000454									
VALUE OF TIME													
	Value of time I	USDOT 2014	annual rate	0.00%									
Surface Modes (except HSR) Values													
Local Travel													
	Personal Share	USDOT BCA G	percent	88.20%									
	Business Share	USDOT BCA G	percent	11.80%				https://www.transportation.gov/sites/dot.gov/files/docs/2016%20Revised%20Value%20of%20Travel%20Time%20Guidance.pdf					
						LO VOT	HI VOT						
	Personal VTTS	USDOT BCA G	2020$ per pe	16.20	16.20	11.49	19.53	$13.60	$9.50	$16.30	-30%	20%	pg 17, 19
	Business VTTS	USDOT BCA G	2020$ per pe	29.40	29.40	20.85	35.45	$25.40	$20.30	$30.50	-20%	20%	
	All Purposes	USDOT BCA G	2020$ per pe	17.80	17.80	12.62	21.46	$14.10	$10.00	$17.00	-29%	21%	
Intercity Travel													
	Personal Share	USDOT Value	percent	78.60%									
	Business Share	USDOT Value	percent	21.40%									
	Personal VTTS	USDOT BCA G	2020$ per pe	22.70	22.70	16.10	27.37						
	Business VTTS	USDOT BCA G	2020$ per pe	29.40	29.40	20.85	35.45						
	All Purposes	*calc*	2020$ per pe	24.13	24.13	17.12	29.10						
Bicyclists/Pedestrians/Waiting/Standing/Transfer Time													
	Personal VTTS	USDOT BCA G	2020$ per pe	32.40	32.40	22.98	39.06						
Air and HSR Values													
Intercity Travel													
	Personal Share	USDOT Value	percent	59.60%									
	Business Share	USDOT Value	percent	40.40%									
	Personal VTTS	USDOT BCA G	2020$ per pe	43.20	43.20	30.64	52.09						
	Business VTTS	USDOT BCA G	2020$ per pe	73.20	73.20	51.91	88.26						
	All Purposes	*calc*	2020$ per pe	55.32	55.32	39.23	66.70						
Other Values													
	Truck Drivers V	USDOT BCA G	2020$ per pe	32.00	32.00	22.70	38.58						
	Bus Drivers VT	USDOT BCA G	2020$ per pe	33.60	33.60	23.83	40.51						
	Transit Rail Op	USDOT BCA G	2020$ per pe	50.70	50.70	35.96	61.13						
	Locomotive En	USDOT BCA G	2020$ per pe	52.50	52.50	37.23	63.30						
	Airline Pilots a	USDOT Value	2020$ per pe	94.12	94.12	66.75	113.48						
Truck Reliability *Contact Sebastian Guerrero to discuss how best to incorporate this value into your BCA*													
	Cost of Unrelia	NCHRP 07-24:	2020$ per pe	$165									
FUEL		From "Annual Energy Outlook 2022" Table 12: Petroleum and Other Liquids Prices. The last column includes CAGR, row 28-30											
	Dollar Year of	US EIA Annual	year	2021									
	EIA IEA Foreca	US EIA Annual	year	2050									
		From "Annual Energy Outlook 2022" Table 12: Petroleum and Other Liquids Prices. The last column includes CAGR, row 28-30											
	Motor gasolin	CAGR from 20	Percent Annua	0.1%									
	Diesel price gr	CAGR from 20	Percent Annua	0.3%									
	Jet fuel price g	CAGR from 20	Percent Annua	1.0%									
		Transportation Energy Efficiency Indicators, cited from "Annual Energy Outlook 2020" Table 7: Transportation Sector Key Indicators. The last column includes CAGR, rows 34. 37, 39, 41											
	Auto fuel effici	CAGR from 20	Percent Annua	0.8%									
	Truck fuel effic	CAGR from 20	Percent Annua	1.1%									
	Aircraft fuel ef	CAGR from 20	Percent Annua	0.8%									
	Rail fuel efficie	CAGR from 20	Percent Annua	0.6%									
		https://www.bts.gov/content/energy-consumption-mode-transportation											
	Energy intensi	Bureau of Trar	thousand BTU	138.70									
EMISSIONS COSTS													
Emissions Costs - CO2 (see InpR tab for forecast values)													
	Forecast End D	USDOT BCA G	year	2050									
	Discount Rate	USDOT BCA G	percentage	3%									
	CO2 Emissions Costs After Fo		Percent Annua	0%									
	Grams of CO2	EPA, Greenho	factor	8,887									
	Grams of CO2	EPA, Greenho	factor	10,180									
Emissions Costs - Non CO2 (see InpR tab for forecast values)													
	Forecast End D	USDOT BCA G	year	2050									
	Non-CO2 Emissions Costs Afte		Percent Annua	0%									
Passenger Rail Emissions Values													
	Intercity Passe	NCRRP, Comp	lbs / passenge	0.122									
	Commuter Pas	NCRRP, Comp	lbs / passenge	0.282									
VEHICLE OPERATING COSTS													
	Vehicle Opera	USDOT BCA G	2020$ / VMT	0.450									
	Vehicle Opera	USDOT BCA G	2020$ / VMT	0.940									
NOISE & CONGESTION COSTS													
Congestion													
	Light-Duty Veh	USDOT BCA G	2020$ / VMT	0.124									
	Light-Duty Veh	USDOT BCA G	2020$ / VMT	0.026									
	Light-Duty	USDOT BCA G	2020$ / VMT	0.104									
	Buses and Tru	USDOT BCA G	2020$ / VMT	0.310									
	Buses and Tru	USDOT BCA G	2020$ / VMT	0.067									
	Buses and	USDOT BCA G	2020$ / VMT	0.212									
	All Vehicles - U	USDOT BCA G	2020$ / VMT	0.138									
	All Vehicles - R	USDOT BCA G	2020$ / VMT	0.033									
	All Vehicles – A	USDOT BCA G	2020$ / VMT	0.115									
	Auto Average	*calc*	2020$ / VMT	-									
	Truck Average	*calc*	2020$ / VMT	-									
Noise													
	Light-Duty Veh	USDOT BCA G	2020$ / VMT	0.002									
	Light-Duty Veh	USDOT BCA G	2020$ / VMT	0.000									
	Light-Duty	USDOT BCA G	2020$ / VMT	0.001									
	Buses and Tru	USDOT BCA G	2020$ / VMT	0.039									
	Buses and Tru	USDOT BCA G	2020$ / VMT	0.003									
	Buses and	USDOT BCA G	2020$ / VMT	0.020									
	All Vehicles - U	USDOT BCA G	2020$ / VMT	0.005									
	All Vehicles - R	USDOT BCA G	2020$ / VMT	0.001									
	All Vehicles – A	USDOT BCA G	2020$ / VMT	0.003									
	Auto Average	*calc*	2020$ / VMT	-									
	Truck Average	*calc*	2020$ / VMT	-									

PAVEMENT DAMAGE

Autos/Rural In	FHWA 2000	2020$ / VMT	0.000
Autos/Urban I	FHWA 2000	2020$ / VMT	0.002
40 kip 4-axle S	FHWA 2000	2020$ / VMT	0.014
40 kip 4-axle S	FHWA 2000	2020$ / VMT	0.044
60 kip 4-axle S	FHWA 2000	2020$ / VMT	0.080
60 kip 4-axle S	FHWA 2000	2020$ / VMT	0.259
60 kip 5-axle C	FHWA 2000	2020$ / VMT	0.047
60 kip 5-axle C	FHWA 2000	2020$ / VMT	0.150
Auto Average	*calc*	2020$ / VMT	-
Truck Average	*calc*	2020$ / VMT	-

MORTALITY REDUCTION BENEFITS OF ACTIVE TRANSPORTATION

Walking	USDOT BCA G	2020$ / induc	7.08
Cycling	USDOT BCA G	2020$ / induc	6.31

AMENITY/FACILITY VALUES

Public Transit Facility

Bus Stop

Clocks	USDOT BCA G	2020$ / trip	0.03
Electronic Rea	USDOT BCA G	2020$ / trip	0.29
Information/E	USDOT BCA G	2020$ / trip	0.22
PA System	USDOT BCA G	2020$ / trip	0.29
Platform/Stop	USDOT BCA G	2020$ / trip	0.18
Platform/Stop	USDOT BCA G	2020$ / trip	0.24
Restroom Ava	USDOT BCA G	2020$ / trip	0.14
Retail/Food O	USDOT BCA G	2020$ / trip	0.10
Staff Availabili	USDOT BCA G	2020$ / trip	0.07
Step-free Acce	USDOT BCA G	2020$ / trip	0.30
Step-free Acce	USDOT BCA G	2020$ / trip	0.39
Surveillance C	USDOT BCA G	2020$ / trip	0.29
Temperature (	USDOT BCA G	2020$ / trip	0.59
Ticket Machin	USDOT BCA G	2020$ / trip	0.10
Timetables	USDOT BCA G	2020$ / trip	0.22
Bike Facilities	USDOT BCA G	2020$ / trip	0.09
Car Access Fac	USDOT BCA G	2020$ / trip	0.11
Elevator	USDOT BCA G	2020$ / trip	0.07
Escalators	USDOT BCA G	2020$ / trip	0.04
On-Site Ticket	USDOT BCA G	2020$ / trip	0.09
Taxi Pickup/Dr	USDOT BCA G	2020$ / trip	0.05
Waiting Room	USDOT BCA G	2020$ / trip	0.19

Light Rail/Streetcar Stop

Clocks	USDOT BCA G	2020$ / trip	0.03
Electronic Rea	USDOT BCA G	2020$ / trip	0.14
Information/E	USDOT BCA G	2020$ / trip	0.22
PA System	USDOT BCA G	2020$ / trip	0.05
Platform/Stop	USDOT BCA G	2020$ / trip	0.13
Platform/Stop	USDOT BCA G	2020$ / trip	0.15
Restroom Ava	USDOT BCA G	2020$ / trip	0.14
Retail/Food O	USDOT BCA G	2020$ / trip	0.10
Staff Availabili	USDOT BCA G	2020$ / trip	0.03
Step-free Acce	USDOT BCA G	2020$ / trip	0.30
Step-free Acce	USDOT BCA G	2020$ / trip	0.07
Surveillance C	USDOT BCA G	2020$ / trip	0.29
Temperature (	USDOT BCA G	2020$ / trip	0.59
Ticket Machin	USDOT BCA G	2020$ / trip	0.10
Timetables	USDOT BCA G	2020$ / trip	0.09
Bike Facilities	USDOT BCA G	2020$ / trip	0.09
Car Access Fac	USDOT BCA G	2020$ / trip	0.11
Elevator	USDOT BCA G	2020$ / trip	0.07
Escalators	USDOT BCA G	2020$ / trip	0.04
On-Site Ticket	USDOT BCA G	2020$ / trip	0.09
Taxi Pickup/Dr	USDOT BCA G	2020$ / trip	0.05
Waiting Room	USDOT BCA G	2020$ / trip	0.19

Rail Station

Clocks	USDOT BCA G	2020$ / trip	0.06
Electronic Rea	USDOT BCA G	2020$ / trip	0.82
Information/E	USDOT BCA G	2020$ / trip	0.10
PA System	USDOT BCA G	2020$ / trip	0.09
Platform/Stop	USDOT BCA G	2020$ / trip	0.12
Platform/Stop	USDOT BCA G	2020$ / trip	0.12
Restroom Ava	USDOT BCA G	2020$ / trip	0.10
Retail/Food O	USDOT BCA G	2020$ / trip	0.06
Staff Availabili	USDOT BCA G	2020$ / trip	0.17
Step-free Acce	USDOT BCA G	2020$ / trip	0.19
Step-free Acce	USDOT BCA G	2020$ / trip	0.07
Surveillance C	USDOT BCA G	2020$ / trip	0.30
Temperature (	USDOT BCA G	2020$ / trip	0.59
Ticket Machin	USDOT BCA G	2020$ / trip	0.06
Timetables	USDOT BCA G	2020$ / trip	0.45
Bike Facilities	USDOT BCA G	2020$ / trip	0.09
Car Access Fac	USDOT BCA G	2020$ / trip	0.11
Elevator	USDOT BCA G	2020$ / trip	0.07
Escalators	USDOT BCA G	2020$ / trip	0.04
On-Site Ticket	USDOT BCA G	2020$ / trip	0.09
Taxi Pickup/Dr	USDOT BCA G	2020$ / trip	0.05
Waiting Room	USDOT BCA G	2020$ / trip	0.19

Public Transit Vehicle

Bus

Electronic	USDOT BCA G	2020$ / trip	0.20
Handrails	USDOT BCA G	2020$ / trip	0.12
Luggage Stora	USDOT BCA G	2020$ / trip	0.08
PA System	USDOT BCA G	2020$ / trip	0.36
Surveillance C	USDOT BCA G	2020$ / trip	0.21
Temperature (	USDOT BCA G	2020$ / trip	0.30
Wheelchair Sp	USDOT BCA G	2020$ / trip	0.04

Light Rail/Streetcar

Electronic	USDOT BCA G	2020$ / trip	0.20
Handrails	USDOT BCA G	2020$ / trip	0.12
Luggage Stora	USDOT BCA G	2020$ / trip	0.08
PA System	USDOT BCA G	2020$ / trip	0.36
Surveillance C	USDOT BCA G	2020$ / trip	0.21
Temperature (	USDOT BCA G	2020$ / trip	0.12
Wheelchair Sp	USDOT BCA G	2020$ / trip	0.04

Rail

Electronic	USDOT BCA G	2020$ / trip	0.21
Handrails	USDOT BCA G	2020$ / trip	0.29
Luggage Stora	USDOT BCA G	2020$ / trip	0.08
PA System	USDOT BCA G	2020$ / trip	0.37
Surveillance C	USDOT BCA G	2020$ / trip	0.59
Temperature (	USDOT BCA G	2020$ / trip	0.45
Wheelchair Sp	USDOT BCA G	2020$ / trip	0.04
Food Service	USDOT BCA G	2020$ / trip	0.03
Restroom	USDOT BCA G	2020$ / trip	0.18

Active Transportation

Cycling

Average Lengt	USDOT BCA G	miles	2.38
Cycling Path w	USDOT BCA G	2020$ / cycle-	1.42
Cycling Path w	USDOT BCA G	2020$ / cycle-	1.78
Dedicated Cyc	USDOT BCA G	2020$ / cycle-	1.69
Cycling	USDOT BCA G	2020$ / cycle-	0.26
Separated Cyc	USDOT BCA G	2020$ / cycle-	1.69

Pedestrian

Average Lengt	USDOT BCA G	miles	0.86
Maximum side	USDOT BCA G	feet	31.00
Expand Sidewalk (per	USDOT BCA G	2020$ / perso	$0.10
Marked Crosswalk on	USDOT BCA G	2020$ / Use	$0.18
Ped Signal on Roadway	USDOT BCA G	2020$ / Use	$0.46

SAFETY

KABCO Monetized Values

					LO VSL	HI VSL	https://www.transportation.gov/sites/dot.gov/files/2021-03/DOT%20VSL%20Guidance%20-%202021%20Update.pdf			
No Injury - O	USDOT BCA G	2020$ / injury	$3,900	$3,900	$2,340	$5,460	40%	Pg 11	https://www.transportation.gov/sites/dot.gov/files/2021-03/DOT%20VSL%20Guidance%20-%202021%2(	
Possible Injury	USDOT BCA G	2020$ / injury	$77,200	$77,200	$46,320	$108,080			0.593	#REF!
Non Incapacita	USDOT BCA G	2020$ / injury	$151,000	$151,000	$90,600	$211,400			0.266	#REF!
Incapacitating	USDOT BCA G	2020$ / injury	$554,800	$554,800	$332,880	$776,720			0.105	#REF!
Killed - K	USDOT BCA G	2020$ / injury	$11,600,000	$11,600,000	$6,960,000	$16,240,000			0.047	#REF!
Injured Severit	USDOT BCA G	2020$ / injury	$210,300	$210,300	$126,180	$294,420			0.003	#REF!
Unknown If In	USDOT BCA G	2020$ / incide	$159,800	$159,800	$95,880	$223,720				

Crash Type Monetized Values

Fatal Crash	USDOT BCA G	2020$ / crash	$12,837,400	$12,837,400	$7,702,440	$17,972,360
Injury Crash	USDOT BCA G	2020$ / crash	$302,600	$302,600	$181,560	$423,640
Property Dam	USDOT BCA G	2020$ per veh	$4,600	$4,600	$2,760	$6,440

Note: API's data reflects a weighted average for each state, meaning that any taxes which can vary across a state's jurisdiction are averaged according to the population of the local areas subject to each particular tax rate. Where appropriate, the weighted average also takes into consideration the typical percentages of premium, midgrade, and regular fuel purchased in each state. In states where taxes vary depending upon the price of the motor fuel (for example, where the tax rate is set as a percentage of the sales price rather than a cents per gallon method), the state average listed on the chart is a snapshot based upon the price of fuel (as reported by AAA) on the date the chart is updated.

API, Jan 2022: https://www.api.org/-/media/Files/Statistics/State-Motor-Fuel-Taxes-Charts-january-2022.pdf?la=en&hash=FE092358BC923411BBE62442732C00215EA6D221

State	**State Gas Tax**	**State Diesel Tax**
Alabama	31.3100	32.2500
Alaska	15.1300	14.9800
Arizona	19.0000	27.0000
Arkansas	24.8000	28.8000
California	68.1500	99.9100
Colorado	22.0000	20.5000
Connecticut	35.7500	40.1000
Delaware	23.0000	22.0000
District of Colu	33.8000	33.8000
Florida	43.5500	36.3700
Georgia	37.5500	41.3900
Hawaii	51.6900	52.4100
Idaho	33.0000	33.0000
Illinois	59.6000	67.0200
Indiana	49.7900	54.0000
Iowa	30.0000	32.5000
Kansas	24.0300	26.0300
Kentucky	26.0000	23.0000
Louisiana	20.0100	20.0100
Maine	30.0100	31.2100
Maryland	36.1000	36.8500
Massachusett	26.5400	26.5400
Michigan	45.1700	47.1600
Minnesota	30.6000	30.6000
Mississippi	18.7900	18.4000
Missouri	19.9200	19.9200
Montana	33.2500	30.3000
Nebraska	25.7000	25.1000
Nevada	50.4800	28.5600
New Hampshi	23.8300	23.8300
New Jersey	50.7000	57.7000
New Mexico	18.8800	22.8800
New York	48.2200	46.9800
North Carolina	38.7500	38.7500
North Dakota	23.0000	23.0000
Ohio	38.5100	47.0100
Oklahoma	20.0000	20.0000
Oregon	38.8300	38.0600
Pennsylvania	58.7000	75.2000
Rhode Island	35.0000	35.0000
South Carolina		
South Dakota		
Tennessee		
Texas	20.0000	
Utah		
Vermont	32.1400	
Virginia		
Washington	49.4000	49.4000
West Virginia	35.7000	35.7000
Wisconsin	32.9000	32.9000
Wyoming	24.0000	24.0000
National Aver	**38.6900**	**40.2400**

				Calendar Year	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
	Variable	**Source**	**Units**	**Constant**																																												
FUEL																																																
Fuel Efficiency																																																
	Auto (light duty stock) fuel efficiency	US EIA Annual Energy Outlook 2022	mpg		24.16	24.16	24.60	25.02	25.44	25.87	26.28	26.68	27.06	27.41	27.73	28.03	28.30	28.54	28.75	28.95	29.14	29.31	29.46	29.61	29.74	29.86	29.98	30.08	30.16	30.23	30.29	30.35	30.40	30.44	30.48													
	Trucks (freight truck) fuel efficiency	US EIA Annual Energy Outlook 2022	mpg		7.33	7.33	7.41	7.50	7.60	7.71	7.83	7.97	8.11	8.25	8.40	8.55	8.70	8.83	8.96	9.07	9.18	9.28	9.36	9.44	9.52	9.59	9.65	9.70	9.75	9.80	9.85	9.89	9.94	9.99	10.03													
	Aircraft fuel efficiency	US EIA Annual Energy Outlook 2022	seat-miles per gal		73.64	73.64	74.16	74.68	75.12	75.58	75.87	76.31	76.80	77.31	77.86	78.43	79.13	79.79	80.51	81.24	81.99	82.76	83.54	84.32	85.11	85.93	86.77	87.61	88.42	89.24	90.06	90.86	91.65	92.42	93.18													
	Rail fuel efficiency	US EIA Annual Energy Outlook 2022	ton-miles / thousand BTU		3.51	3.51	3.53	3.56	3.58	3.60	3.63	3.65	3.67	3.70	3.72	3.75	3.77	3.80	3.82	3.84	3.87	3.89	3.92	3.95	3.97	4.00	4.02	4.05	4.08	4.10	4.13	4.15	4.18	4.21	4.24													
	EIA IEA Forecast End Year	US EIA Annual Energy Outlook 2022	year	2050																																												
	Auto fuel efficiency growth (after 2050)	CAGR from 2020-2050 EIA Forecast	Percent Annual Growth	0.8%																																												
	Truck fuel efficiency growth (after 2050)	CAGR from 2020-2050 EIA Forecast	Percent Annual Growth	1.1%																																												
	Aircraft fuel efficiency growth (after 2050)	CAGR from 2020-2050 EIA Forecast	Percent Annual Growth	0.8%																																												
	Rail fuel efficiency growth (after 2050)	CAGR from 2020-2050 EIA Forecast	Percent Annual Growth	0.6%																																												
	Auto (light duty stock) fuel efficiency	EIA w/Forecast	mpg		24.16	24.16	24.60	25.02	25.44	25.87	26.28	26.68	27.06	27.41	27.73	28.03	28.30	28.54	28.75	28.95	29.14	29.31	29.46	29.61	29.74	29.86	29.98	30.08	30.16	30.23	30.29	30.35	30.40	30.44	30.48	30.73	30.97	31.22	31.47	31.72	31.97	32.23	32.49	32.75	33.01	33.27	33.54	33.81
	Trucks (freight truck) fuel efficiency	EIA w/Forecast	mpg		7.33	7.33	7.41	7.50	7.60	7.71	7.83	7.97	8.11	8.25	8.40	8.55	8.70	8.83	8.96	9.07	9.18	9.28	9.36	9.44	9.52	9.59	9.65	9.70	9.75	9.80	9.85	9.89	9.94	9.99	10.03	10.14	10.25	10.37	10.48	10.60	10.71	10.83	10.95	11.07	11.19	11.31	11.44	11.56
	Aircraft fuel efficiency	EIA w/Forecast	seat-miles per gal		73.64	73.64	74.16	74.68	75.12	75.58	75.87	76.31	76.80	77.31	77.86	78.43	79.13	79.79	80.51	81.24	81.99	82.76	83.54	84.32	85.11	85.93	86.77	87.61	88.42	89.24	90.06	90.86	91.65	92.42	93.18	93.92	94.68	95.43	96.20	96.97	97.74	98.52	99.31	100.11	100.91	101.72	102.53	103.35
	Rail fuel efficiency	EIA w/Forecast	ton-miles / thousand BTU		3.51	3.51	3.53	3.56	3.58	3.60	3.63	3.65	3.67	3.70	3.72	3.75	3.77	3.80	3.82	3.84	3.87	3.89	3.92	3.95	3.97	4.00	4.02	4.05	4.08	4.10	4.13	4.15	4.18	4.21	4.24	4.26	4.29	4.31	4.34	4.36	4.39	4.42	4.44	4.47	4.50	4.52	4.55	4.58
Fuel Prices																																																
	Dollar Year of EIA IEA Forecast	US EIA Annual Energy Outlook 2022	year	2021																															0.01													
	motor gasoline	US EIA Annual Energy Outlook 2022	2021$ / gal, incl. taxes		3.11	3.11	2.98	2.67	2.65	2.62	2.65	2.68	2.71	2.73	2.80	2.88	2.91	2.94	2.96	2.97	2.99	3.01	3.04	3.04	3.07	3.08	3.09	3.12	3.15	3.16	3.18	3.19	3.18	3.18	3.18													
	diesel	US EIA Annual Energy Outlook 2022	2021$ / gal, incl. taxes		3.26	3.26	3.13	3.02	3.13	3.13	3.12	3.13	3.15	3.17	3.17	3.25	3.27	3.28	3.29	3.30	3.33	3.36	3.37	3.39	3.41	3.43	3.43	3.47	3.51	3.52	3.54	3.55	3.55	3.54	3.53													
	jet fuel	US EIA Annual Energy Outlook 2022	2021$ / gal, incl. taxes		1.98	1.98	2.07	1.94	2.09	2.10	2.12	2.16	2.20	2.22	2.21	2.28	2.30	2.32	2.34	2.36	2.38	2.42	2.44	2.46	2.48	2.50	2.51	2.55	2.59	2.60	2.63	2.64	2.64	2.64	2.64													
	EIA IEA Forecast End Year		year	2050																																												
	Motor gasoline price growth (after 2050)		Percent Annual Growth	0.10%																																												
	Diesel price growth (after 2050)		Percent Annual Growth	0.30%																																												
	Jet fuel price growth (after 2050)		Percent Annual Growth	1.00%																																												
	Inflation Adjustment Factor - 2021$ to 2020$		Factor	0.96																																												
	motor gasoline	EIA w/Forecast	2020$ / gal, incl. taxes		2.99	2.99	2.86	2.56	2.54	2.52	2.54	2.57	2.60	2.62	2.68	2.77	2.80	2.82	2.84	2.85	2.87	2.89	2.92	2.92	2.94	2.96	2.97	2.99	3.02	3.03	3.06	3.06	3.06	3.06	3.06	2.94	2.82	2.71	2.61	2.51	2.41	2.31	2.22	2.14	2.05	1.97	1.90	1.82
	diesel	EIA w/Forecast	2020$ / gal, incl. taxes		3.13	3.13	3.01	2.90	3.00	3.00	3.00	3.01	3.03	3.05	3.04	3.12	3.14	3.15	3.16	3.17	3.19	3.22	3.24	3.25	3.28	3.29	3.29	3.33	3.37	3.38	3.40	3.41	3.40	3.40	3.39	3.27	3.15	3.03	2.92	2.81	2.71	2.61	2.51	2.42	2.33	2.24	2.16	2.08
	jet fuel	EIA w/Forecast	2020$ / gal, incl. taxes		1.90	1.90	1.99	1.86	2.01	2.02	2.04	2.07	2.11	2.13	2.12	2.19	2.21	2.23	2.25	2.26	2.29	2.32	2.34	2.36	2.38	2.40	2.41	2.44	2.48	2.50	2.53	2.54	2.53	2.54	2.53	2.45	2.38	2.31	2.24	2.17	2.10	2.04	1.98	1.92	1.86	1.80	1.75	1.70
EMISSIONS																																																
Emissions Costs																																																
	CO2 Costs	USDOT BCA Guidance March 2022	2020$ / metric ton		52	52	53	54	55	56	57	58	60	61	62	63	64	65	66	67	69	70	71	72	73	74	75	77	78	79	80	81	82	83	85													
	NOX Costs Likely	USDOT BCA Guidance Mar 2022	2020$ / metric ton		15,600	15,600	15,800	16,000	16,200	16,500	16,800	17,100	17,400	17,700	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100													
	PM Costs Likely	USDOT BCA Guidance Mar 2022	2020$ / metric ton		748,600	748,600	761,600	774,700	788,100	801,700	814,500	827,400	840,600	854,000	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600													
	SOX Costs Likely	USDOT BCA Guidance Mar 2022	2020$ / metric ton		41,500	41,500	42,300	43,100	44,000	44,900	45,700	46,500	47,300	48,200	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100													
	Forecast End Date		year	2050																																												
	CO2 Emissions Costs After Forecast Period		Percent Annual Growth	0.00%																																												
	CO2 Costs	USDOT BCA Guidance Feb 2021	2020$ / metric ton		52.00	52.00	53.00	54.00	55.00	56.00	57.00	58.00	60.00	61.00	62.00	63.00	64.00	65.00	66.00	67.00	69.00	70.00	71.00	72.00	73.00	74.00	75.00	77.00	78.00	79.00	80.00	81.00	82.00	83.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00
	NOX Costs Likely	USDOT BCA Guidance Feb 2021	2020$ / metric ton		15,600	15,600	15,800	16,000	16,200	16,500	16,800	17,100	17,400	17,700	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100	18,100
	PM Costs Likely	USDOT BCA Guidance Feb 2021	2020$ / metric ton		748,600	748,600	761,600	774,700	788,100	801,700	814,500	827,400	840,600	854,000	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600	867,600
	SOX Costs Likely	USDOT BCA Guidance Feb 2021	2020$ / metric ton		41,500	41,500	42,300	43,100	44,000	44,900	45,700	46,500	47,300	48,200	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100	49,100
Auto Emissions																																																
	Note: Auto emissions factors are based on California Air Resources Board's EMFAC2021 Mobile Emissions Inventory for 2022 and 2050	https://arb.ca.gov/emfac/emissions-inventory																																														
NOx Emissions	NOx	Gasoline																																														
5	5 MPH	California Air Resources Board, EMI	g / VMT				0.097	0.094	0.090	0.087	0.084	0.081	0.079	0.076	0.073	0.071	0.068	0.066	0.064	0.061	0.059	0.057	0.055	0.053	0.051	0.049	0.047	0.045	0.042	0.040	0.038	0.036	0.034	0.032	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
6	6 MPH						0.094	0.090	0.087	0.084	0.081	0.079	0.076	0.073	0.071	0.068	0.066	0.064	0.061	0.059	0.057	0.055	0.053	0.051	0.049	0.047	0.045	0.043	0.041	0.039	0.037	0.035	0.033	0.031	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
7	7 MPH						0.090	0.087	0.084	0.081	0.079	0.076	0.073	0.071	0.068	0.066	0.064	0.061	0.059	0.057	0.055	0.053	0.051	0.049	0.047	0.045	0.043	0.042	0.040	0.038	0.036	0.034	0.032	0.030	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
8	8 MPH						0.087	0.084	0.081	0.079	0.076	0.073	0.071	0.068	0.066	0.064	0.061	0.059	0.057	0.055	0.053	0.051	0.050	0.048	0.046	0.044	0.042	0.040	0.038	0.036	0.034	0.033	0.031	0.029	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
9	9 MPH						0.084	0.081	0.079	0.076	0.073	0.071	0.068	0.066	0.064	0.061	0.059	0.057	0.055	0.053	0.052	0.050	0.048	0.046	0.044	0.042	0.041	0.039	0.037	0.035	0.033	0.031	0.030	0.028	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
10	10 MPH						0.081	**0.079**	**0.076**	**0.073**	**0.071**	**0.068**	**0.066**	**0.064**	**0.061**	**0.059**	**0.057**	**0.055**	**0.053**	**0.052**	**0.050**	**0.048**	**0.046**	**0.044**	**0.043**	**0.041**	**0.039**	**0.037**	**0.036**	**0.034**	**0.032**	**0.030**	**0.029**	**0.027**	0.030	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**
11	11 MPH						0.080	0.077	0.074	0.072	0.069	0.067	0.064	0.062	0.060	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.045	0.043	0.042	0.040	0.038	0.037	0.035	0.033	0.031	0.030	0.028	0.026	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
12	12 MPH						0.078	0.075	0.073	0.070	0.068	0.065	0.063	0.061	0.059	0.057	0.055	0.053	0.051	0.049	0.048	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.034	0.032	0.031	0.029	0.027	0.026	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
13	13 MPH						0.076	0.073	0.071	0.068	0.066	0.064	0.062	0.060	0.057	0.055	0.054	0.052	0.050	0.048	0.047	0.045	0.043	0.042	0.040	0.038	0.037	0.035	0.033	0.032	0.030	0.028	0.027	0.025	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
14	14 MPH						0.074	0.072	0.069	0.067	0.065	0.062	0.060	0.058	0.056	0.054	0.052	0.051	0.049	0.047	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.034	0.033	0.031	0.029	0.028	0.026	0.024	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
15	15 MPH						0.073	**0.070**	**0.068**	**0.065**	**0.063**	**0.061**	**0.059**	**0.057**	**0.055**	**0.053**	**0.051**	**0.049**	**0.048**	**0.046**	**0.045**	**0.043**	**0.041**	**0.040**	**0.038**	**0.037**	**0.035**	**0.033**	**0.032**	**0.030**	**0.029**	**0.027**	**0.026**	**0.024**	0.027	**0.027**	**0.027**	**0.027**	**0.027**	**0.027**	**0.027**	**0.027**	**0.027**	**0.027**	**0.027**	**0.027**	**0.027**	**0.027**
16	16 MPH						0.071	0.069	0.066	0.064	0.062	0.060	0.058	0.056	0.054	0.052	0.050	0.048	0.047	0.045	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.033	0.031	0.030	0.028	0.027	0.025	0.023	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
17	17 MPH						0.070	0.067	0.065	0.063	0.061	0.059	0.057	0.055	0.053	0.051	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037	0.035	0.034	0.032	0.031	0.029	0.028	0.026	0.024	0.023	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
18	18 MPH						0.068	0.066	0.064	0.062	0.059	0.057	0.055	0.053	0.052	0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.037	0.036	0.034	0.033	0.031	0.030	0.028	0.027	0.025	0.024	0.023	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
19	19 MPH						0.067	0.065	0.062	0.060	0.058	0.056	0.054	0.052	0.051	0.049	0.047	0.046	0.044	0.042	0.041	0.040	0.038	0.037	0.035	0.034	0.032	0.031	0.029	0.028	0.026	0.025	0.023	0.022	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
20	20 MPH						0.066	**0.063**	**0.061**	**0.059**	**0.057**	**0.055**	**0.053**	**0.051**	**0.050**	**0.048**	**0.046**	**0.045**	**0.043**	**0.042**	**0.040**	**0.039**	**0.037**	**0.036**	**0.034**	**0.033**	**0.032**	**0.030**	**0.029**	**0.027**	**0.026**	**0.024**	**0.023**	**0.022**	0.024	**0.024**	**0.024**	**0.024**	**0.024**	**0.024**	**0.024**	**0.024**	**0.024**	**0.024**	**0.024**	**0.024**	**0.024**	**0.024**
21	21 MPH						0.065	0.062	0.060	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.045	0.044	0.042	0.041	0.039	0.038	0.037	0.035	0.034	0.032	0.031	0.030	0.028	0.027	0.025	0.024	0.023	0.021	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
22	22 MPH						0.063	0.061	0.059	0.057	0.055	0.053	0.051	0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.037	0.036	0.035	0.033	0.032	0.031	0.029	0.028	0.026	0.025	0.024	0.022	0.021	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
23	23 MPH						0.062	0.060	0.058	0.056	0.054	0.052	0.051	0.049	0.047	0.046	0.044	0.042	0.041	0.040	0.038	0.037	0.035	0.034	0.033	0.031	0.030	0.029	0.027	0.026	0.025	0.023	0.022	0.021	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
24	24 MPH						0.061	0.059	0.057	0.055	0.053	0.052	0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.032	0.031	0.030	0.028	0.027	0.026	0.024	0.023	0.022	0.020	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
25	25 MPH						0.060	**0.058**	**0.056**	**0.054**	**0.053**	**0.051**	**0.049**	**0.047**	**0.046**	**0.044**	**0.043**	**0.041**	**0.040**	**0.038**	**0.037**	**0.036**	**0.034**	**0.033**	**0.032**	**0.030**	**0.029**	**0.028**	**0.026**	**0.025**	**0.024**	**0.023**	**0.021**	**0.020**	0.022	**0.022**	**0.022**	**0.022**	**0.022**	**0.022**	**0.022**	**0.022**	**0.022**	**0.022**	**0.022**	**0.022**	**0.022**	**0.022**
26	26 MPH						0.060	0.057	0.056	0.054	0.052	0.050	0.048	0.047	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.033	0.031	0.030	0.029	0.027	0.026	0.025	0.023	0.022	0.021	0.020	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
27	27 MPH						0.059	0.057	0.055	0.053	0.051	0.049	0.048	0.046	0.044	0.043	0.041	0.040	0.039	0.037	0.036	0.035	0.033	0.032	0.031	0.029	0.028	0.027	0.026	0.024	0.023	0.022	0.021	0.019	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
28	28 MPH						0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.045	0.044	0.042	0.041	0.039	0.038	0.037	0.035	0.034	0.033	0.032	0.030	0.029	0.028	0.027	0.025	0.024	0.023	0.022	0.020	0.019	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
29	29 MPH						0.057	0.055	0.053	0.051	0.049	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.037	0.036	0.035	0.034	0.032	0.031	0.030	0.029	0.027	0.026	0.025	0.024	0.022	0.021	0.020	0.019	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
30	30 MPH						0.056	**0.054**	**0.052**	**0.051**	**0.049**	**0.047**	**0.045**	**0.044**	**0.042**	**0.041**	**0.040**	**0.038**	**0.037**	**0.036**	**0.034**	**0.033**	**0.032**	**0.031**	**0.029**	**0.028**	**0.027**	**0.026**	**0.025**	**0.023**	**0.022**	**0.021**	**0.020**	**0.018**	0.020	**0.020**	**0.020**	**0.020**	**0.020**	**0.020**	**0.020**	**0.020**	**0.020**	**0.020**	**0.020**	**0.020**	**0.020**	**0.020**
31	31 MPH						0.055	0.054	0.052	0.050	0.048	0.047	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.030	0.029	0.028	0.027	0.025	0.024	0.023	0.022	0.021	0.019	0.018	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
32	32 MPH						0.055	0.053	0.051	0.049	0.048	0.046	0.044	0.043	0.041	0.040	0.039	0.037	0.036	0.035	0.034	0.032	0.031	0.030	0.029	0.028	0.026	0.025	0.024	0.023	0.022	0.020	0.019	0.018	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
33	33 MPH						0.054	0.052	0.051	0.049	0.047	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.028	0.027	0.026	0.025	0.024	0.023	0.021	0.020	0.019	0.018	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
34	34 MPH						0.054	0.052	0.050	0.048	0.047	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.030	0.029	0.028	0.027	0.026	0.025	0.023	0.022	0.021	0.020	0.019	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
35	35 MPH						0.053	**0.051**	**0.049**	**0.048**	**0.046**	**0.044**	**0.043**	**0.041**	**0.040**	**0.039**	**0.037**	**0.036**	**0.035**	**0.034**	**0.032**	**0.031**	**0.030**	**0.029**	**0.028**	**0.027**	**0.025**	**0.024**	**0.023**	**0.022**	**0.021**	**0.020**	**0.019**	**0.017**	0.019	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**
36	36 MPH						0.053	0.051	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.029	0.028	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.018	0.017	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
37	37 MPH						0.052	0.050	0.049	0.047	0.045	0.044	0.042	0.041	0.039	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.030	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.021	0.019	0.018	0.017	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
38	38 MPH						0.052	0.050	0.048	0.047	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.020	0.019	0.018	0.017	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
39	39 MPH						0.051	0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.037	0.036	0.035	0.034	0.033	0.031	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.022	0.021	0.020	0.019	0.018	0.017	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
40	40 MPH						0.051	**0.049**	**0.047**	**0.046**	**0.044**	**0.043**	**0.041**	**0.040**	**0.038**	**0.037**	**0.036**	**0.035**	**0.033**	**0.032**	**0.031**	**0.030**	**0.029**	**0.028**	**0.027**	**0.026**	**0.024**	**0.023**	**0.022**	**0.021**	**0.020**	**0.019**	**0.018**	**0.017**	0.018	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**
41	41 MPH						0.051	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
42	42 MPH						0.051	0.049	0.047	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
43	43 MPH						0.050	0.049	0.047	0.045	0.044	0.042	0.041	0.039	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.030	0.029	0.028	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
44	44 MPH						0.050	0.048	0.047	0.045	0.044	0.042	0.041	0.039	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.030	0.029	0.027	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
45	45 MPH						0.050	**0.048**	**0.047**	**0.045**	**0.043**	**0.042**	**0.041**	**0.039**	**0.038**	**0.036**	**0.035**	**0.034**	**0.033**	**0.032**	**0.031**	**0.030**	**0.028**	**0.027**	**0.026**	**0.025**	**0.024**	**0.023**	**0.022**	**0.021**	**0.020**	**0.019**	**0.018**	**0.016**	0.018	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**
46	46 MPH						0.050	0.048	0.047	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.016	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
47	47 MPH						0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.017	0.016	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
48	48 MPH						0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.033	0.031	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.018	0.017	0.016	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
49	49 MPH						0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.037	0.036	0.035	0.034	0.033	0.031	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.018	0.017	0.016	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
50	50 MPH						0.049	**0.048**	**0.046**	**0.044**	**0.043**	**0.041**	**0.040**	**0.039**	**0.037**	**0.036**	**0.035**	**0.034**	**0.032**	**0.031**	**0.030**	**0.029**	**0.028**	**0.027**	**0.026**	**0.025**	**0.024**	**0.023**	**0.022**	**0.021**	**0.019**	**0.018**	**0.017**	**0.016**	0.018	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**
51	51 MPH						0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.037	0.036	0.035	0.034	0.033	0.031	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.018	0.017	0.016	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
52	52 MPH						0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.017	0.016	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
53	53 MPH						0.050	0.048	0.047	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.016	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
54	54 MPH						0.050	0.048	0.047	0.045	0.044	0.042	0.041	0.039	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.030	0.029	0.027	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
55	55 MPH						0.050	**0.049**	**0.047**	**0.045**	**0.044**	**0.042**	**0.041**	**0.039**	**0.038**	**0.037**	**0.035**	**0.034**	**0.033**	**0.032**	**0.031**	**0.030**	**0.029**	**0.028**	**0.026**	**0.025**	**0.024**	**0.023**	**0.022**	**0.021**	**0.020**	**0.019**	**0.018**	**0.017**	0.018	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**
56	56 MPH						0.051	0.049	0.047	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.029	0.028	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
57	57 MPH						0.051	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
58	58 MPH						0.051	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037	0.036	0.035	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.026	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
59	59 MPH						0.051	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037	0.036	0.035	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.026	0.025	0.023	0.022	0.021	0.020	0.019	0.018	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
60	60 MPH						0.051	**0.049**	**0.048**	**0.046**	**0.044**	**0.043**	**0.041**	**0.040**	**0.039**	**0.037**	**0.036**	**0.035**	**0.034**	**0.032**	**0.031**	**0.030**	**0.029**	**0.028**	**0.027**	**0.026**	**0.025**	**0.023**	**0.022**	**0.021**	**0.020**	**0.019**	**0.018**	**0.017**	0.018	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**
61	61 MPH						0.052	0.050	0.048	0.047	0.045	0.043	0.042	0.041	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.020	0.019	0.018	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
62	62 MPH						0.052	0.051	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.029	0.028	0.026	0.025	0.024	0.023	0.022	0.021	0.020	0.018	0.017	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
63	63 MPH						0.053	0.051	0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.037	0.036	0.035	0.034	0.033	0.031	0.030	0.029	0.028	0.027	0.026	0.024	0.023	0.022	0.021	0.020	0.019	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
64	64 MPH						0.054	0.052	0.050	0.049	0.047	0.045	0.044	0.042	0.041	0.039	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.022	0.021	0.020	0.019	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
65	65 MPH						0.055	**0.053**	**0.051**	**0.049**	**0.047**	**0.046**	**0.044**	**0.043**	**0.041**	**0.040**	**0.038**	**0.037**	**0.036**	**0.035**	**0.033**	**0.032**	**0.031**	**0.030**	**0.029**	**0.027**	**0.026**	**0.025**	**0.024**	**0.023**	**0.022**	**0.020**	**0.019**	**0.018**	0.019	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**
66	66 MPH						0.054	0.052	0.051	0.049	0.047	0.046	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033	0.032	0.031	0.030	0.028	0.027	0.026	0.025	0.024	0.023	0.021	0.020	0.019	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
67	67 MPH						0.054	0.052	0.050	0.049	0.047	0.045	0.044	0.042	0.041	0.039	0.038	0.037	0.035	0.034	0.033	0.032	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.022	0.021	0.020	0.019	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
68	68 MPH						0.053	0.052	0.050	0.048	0.046	0.045	0.043	0.042	0.040	0.039	0.038	0.036	0.035	0.034	0.033	0.032	0.030	0.029	0.028	0.027	0.026	0.025	0.023	0.022	0.021	0.020	0.019	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
69	69 MPH						0.053	0.051	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037	0.036	0.035	0.033	0.032	0.031	0.030	0.029	0.028	0.027	0.025	0.024	0.023	0.022	0.021	0.020	0.019	0.017	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
70	70 MPH						0.053	**0.051**	**0.050**	**0.048**	**0.046**	**0.045**	**0.043**	**0.042**	**0.040**	**0.039**	**0.037**	**0.036**	**0.035**	**0.034**	**0.033**	**0.031**	**0.030**	**0.029**	**0.028**	**0.027**	**0.026**	**0.024**	**0.023**	**0.022**	**0.021**	**0.020**	**0.019**	**0.017**	0.019	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**	**0.019**
PM2.5 Emissions	PM2.5																																															
5	5 MPH						0.009	**0.009**	**0.008**	**0.008**	**0.008**	**0.008**	**0.007**	**0.007**	**0.007**	**0.007**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
6	6 MPH						0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
7	7 MPH						0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
8	8 MPH						0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
9	9 MPH						0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10	10 MPH						0.006	**0.006**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	0.002	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**
11	11 MPH						0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12	12 MPH						0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
13	13 MPH						0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
14	14 MPH						0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
15	15 MPH						0.004	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	**0.001**	0.001	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
16	16 MPH						0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
17	17 MPH						0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
18	18 MPH						0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
19	19 MPH						0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
20	20 MPH						0.003	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	0.001	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
21	21 MPH						0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
22	22 MPH						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
23	23 MPH						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
24	24 MPH						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
25	25 MPH						0.002	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	0.001	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
26	26 MPH						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
27	27 MPH						0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
28	28 MPH						0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

	29	29 MPH	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	30	30 MPH	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	31	31 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	32	32 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	33	33 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	34	34 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	35	35 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	36	36 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	37	37 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	38	38 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	39	39 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	40	40 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	41	41 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	42	42 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	43	43 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	44	44 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	45	45 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	46	46 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	47	47 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	48	48 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	49	49 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	50	50 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	51	51 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	52	52 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	53	53 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	54	54 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	55	55 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	56	56 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	57	57 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	58	58 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	59	59 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	60	60 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	61	61 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	62	62 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	63	63 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	64	64 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	65	65 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	66	66 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	67	67 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	68	68 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	69	69 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	70	70 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SOx Emissions		SOx																																								
	5	5 MPH	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
	6	6 MPH	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	7	7 MPH	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	8	8 MPH	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	9	9 MPH	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	10	10 MPH	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	11	11 MPH	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	12	12 MPH	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	13	13 MPH	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	14	14 MPH	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	15	15 MPH	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	16	16 MPH	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	17	17 MPH	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	18	18 MPH	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	19	19 MPH	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	20	20 MPH	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	21	21 MPH	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	22	22 MPH	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	23	23 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	24	24 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	25	25 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	26	26 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	27	27 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	28	28 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	29	29 MPH	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	30	30 MPH	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	31	31 MPH	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	32	32 MPH	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	33	33 MPH	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	34	34 MPH	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	35	35 MPH	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	36	36 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	37	37 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	38	38 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	39	39 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	40	40 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	41	41 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	42	42 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	43	43 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	44	44 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	45	45 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	46	46 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	47	47 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	48	48 MPH	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	49	49 MPH	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	50	50 MPH	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	51	51 MPH	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	52	52 MPH	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	53	53 MPH	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	54	54 MPH	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	55	55 MPH	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	56	56 MPH	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	57	57 MPH	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	58	58 MPH	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	59	59 MPH	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	60	60 MPH	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	61	61 MPH	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	62	62 MPH	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	63	63 MPH	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	64	64 MPH	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	65	65 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	66	66 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	67	67 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	68	68 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	69	69 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	70	70 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
CO2 Emissions		CO2																																								
	5	5 MPH	695.338	671.357	648.203	625.847	604.263	583.423	563.301	543.874	525.116	507.006	489.520	472.637	456.337	440.598	425.403	410.217	395.041	379.875	364.720	349.576	334.443	319.323	304.215	289.120	274.040	258.974	243.924	228.890	561.895	561.895	561.895	561.895	561.895	561.895	561.895	561.895	561.895	561.895	561.895	561.895	561.895	561.895
	6	6 MPH	667.076	644.070	621.857	600.410	579.703	559.709	540.406	521.768	503.773	486.399	469.624	453.427	437.789	422.690	408.112	393.544	378.984	364.435	349.896	335.367	320.850	306.344	291.850	277.369	262.902	248.448	234.010	219.587	539.349	539.349	539.349	539.349	539.349	539.349	539.349	539.349	539.349	539.349	539.349	539.349	539.349	539.349
	7	7 MPH	639.963	617.892	596.581	576.006	556.141	536.960	518.441	500.561	483.297	466.629	450.536	434.998	419.995	405.510	391.525	377.548	363.581	349.622	335.674	321.736	307.809	293.893	279.988	266.096	252.216	238.350	224.498	210.662	517.708	517.708	517.708	517.708	517.708	517.708	517.708	517.708	517.708	517.708	517.708	517.708	517.708	517.708
	8	8 MPH	613.952	592.777	572.333	552.595	533.536	515.136	497.369	480.216	463.654	447.663	432.224	417.317	402.924	389.028	375.611	362.203	348.803	335.412	322.031	308.659	295.298	281.947	268.608	255.280	241.965	228.662	215.374	202.100	496.934	496.934	496.934	496.934	496.934	496.934	496.934	496.934	496.934	496.934	496.934	496.934	496.934	496.934
	9	9 MPH	588.998	568.684	549.071	530.134	511.851	494.198	477.154	460.697	444.809	429.468	414.656	400.355	386.548	373.216	360.345	347.481	334.626	321.779	308.942	296.114	283.296	270.488	257.690	244.904	232.130	219.368	206.620	193.885	476.995	476.995	476.995	476.995	476.995	476.995	476.995	476.995	476.995	476.995	476.995	476.995	476.995	476.995
	10	10 MPH	565.058	545.570	526.754	508.587	491.047	474.111	457.760	441.973	426.730	412.012	397.803	384.083	370.837	358.047	345.698	333.358	321.025	308.701	296.385	284.078	271.781	259.494	247.217	234.950	222.695	210.452	198.222	186.005	457.855	457.855	457.855	457.855	457.855	457.855	457.855	457.855	457.855	457.855	457.855	457.855	457.855	457.855
	11	11 MPH	542.984	524.257	506.176	488.719	471.864	455.590	439.877	424.707	410.059	395.917	382.262	369.079	356.350	344.060	332.194	320.335	308.484	296.641	284.807	272.981	261.164	249.356	237.559	225.772	213.996	202.231	190.478	178.739	439.947	439.947	439.947	439.947	439.947	439.947	439.947	439.947	439.947	439.947	439.947	439.947	439.947	439.947
	12	12 MPH	521.772	503.777	486.402	469.627	453.430	437.792	422.693	408.115	394.040	380.450	367.329	354.660	342.429	330.619	319.216	307.821	296.433	285.053	273.680	262.317	250.961	239.615	228.279	216.952	205.636	194.331	183.037	171.756	422.740	422.740	422.740	422.740	422.740	422.740	422.740	422.740	422.740	422.740	422.740	422.740	422.740	422.740
	13	13 MPH	501.388	484.096	467.401	451.281	435.717	420.689	406.180	392.172	378.647	365.588	352.979	340.805	329.051	317.703	306.746	295.796	284.853	273.917	262.989	252.069	241.157	230.254	219.361	208.477	197.602	186.739	175.887	165.046	406.206	406.206	406.206	406.206	406.206	406.206	406.206	406.206	406.206	406.206	406.206	406.206	406.206	406.206
	14	14 MPH	481.801	465.185	449.141	433.651	418.695	404.255	390.313	376.852	363.854	351.306	339.190	327.492	316.197	305.292	294.763	284.240	273.725	263.216	252.715	242.222	231.736	221.259	210.791	200.332	189.883	179.444	169.015	158.599	390.318	390.318	390.318	390.318	390.318	390.318	390.318	390.318	390.318	390.318	390.318	390.318	390.318	390.318
	15	15 MPH	462.980	447.012	431.595	416.710	402.339	388.463	375.065	362.130	349.640	337.582	325.939	314.698	303.844	293.365	283.248	273.136	263.031	252.933	242.843	232.759	222.683	212.616	202.557	192.506	182.465	172.434	162.413	152.403	375.052	375.052	375.052	375.052	375.052	375.052	375.052	375.052	375.052	375.052	375.052	375.052	375.052	375.052
	16	16 MPH	446.569	431.167	416.297	401.940	388.077	374.693	361.770	349.294	337.247	325.616	314.386	303.543	293.074	282.967	273.208	263.455	253.708	243.968	234.235	224.509	214.790	205.079	195.377	185.683	175.997	166.322	156.656	147.001	361.673	361.673	361.673	361.673	361.673	361.673	361.673	361.673	361.673	361.673	361.673	361.673	361.673	361.673
	17	17 MPH	430.740	415.884	401.541	387.692	374.322	361.412	348.947	336.913	325.293	314.074	303.242	292.784	282.686	272.937	263.523	254.116	244.715	235.320	225.932	216.551	207.177	197.810	188.451	179.101	169.759	160.426	151.103	141.790	348.772	348.772	348.772	348.772	348.772	348.772	348.772	348.772	348.772	348.772	348.772	348.772	348.772	348.772
	18	18 MPH	415.472	401.143	387.308	373.950	361.053	348.601	336.578	324.970	313.763	302.941	292.493	282.406	272.666	263.262	254.183	245.109	236.041	226.979	217.924	208.875	199.833	190.799	181.772	172.753	163.742	154.740	145.747	136.764	336.331	336.331	336.331	336.331	336.331	336.331	336.331	336.331	336.331	336.331	336.331	336.331	336.331	336.331
	19	19 MPH	400.745	386.924	373.579	360.695	348.255	336.245	324.648	313.451	302.641	292.203	282.126	272.396	263.001	253.931	245.173	236.421	227.674	218.934	210.199	201.471	192.750	184.036	175.329	166.629	157.938	149.255	140.581	131.917	324.334	324.334	324.334	324.334	324.334	324.334	324.334	324.334	324.334	324.334	324.334	324.334	324.334	324.334
	20	20 MPH	386.540	373.209	360.338	347.910	335.911	324.326	313.141	302.341	291.914	281.846	272.125	262.740	253.679	244.930	236.483	228.041	219.604	211.173	202.749	194.330	185.918	177.512	169.114	160.723	152.340	143.964	135.598	127.241	312.765	312.765	312.765	312.765	312.765	312.765	312.765	312.765	312.765	312.765	312.765	312.765	312.765	312.765
	21	21 MPH	374.625	361.705	349.230	337.186	325.557	314.329	303.488	293.021	282.915	273.158	263.737	254.641	245.859	237.380	229.193	221.011	212.835	204.664	196.499	188.340	180.187	172.040	163.901	155.768	147.644	139.527	131.418	123.318	303.125	303.125	303.125	303.125	303.125	303.125	303.125	303.125	303.125	303.125	303.125	303.125	303.125	303.125
	22	22 MPH	363.077	350.555	338.465	326.792	315.521	304.639	294.133	283.988	274.194	264.738	255.607	246.792	238.280	230.062	222.128	214.198	206.274	198.355	190.442	182.534	174.632	166.737	158.848	150.967	143.092	135.226	127.367	119.517	293.783	293.783	293.783	293.783	293.783	293.783	293.783	293.783	293.783	293.783	293.783	293.783	293.783	293.783
	23	23 MPH	351.885	339.749	328.031	316.718	305.795	295.248	285.066	275.234	265.742	256.577	247.728	239.184	230.935	222.970	215.281	207.595	199.915	192.240	184.571	176.907	169.249	161.597	153.952	146.313	138.681	131.057	123.441	115.833	284.728	284.728	284.728	284.728	284.728	284.728	284.728	284.728	284.728	284.728	284.728	284.728	284.728	284.728
	24	24 MPH	341.038	329.276	317.920	306.955	296.369	286.147	276.278	266.750	257.550	248.668	240.092	231.811	223.816	216.097	208.644	201.196	193.753	186.315	178.881	171.454	164.032	156.616	149.206	141.803	134.406	127.017	119.636	112.262	275.953	275.953	275.953	275.953	275.953	275.953	275.953	275.953	275.953	275.953	275.953	275.953	275.953	275.953
	25	25 MPH	330.525	319.126	308.119	297.493	287.233	277.327	267.762	258.527	249.611	241.002	232.691	224.665	216.917	209.436	202.213	194.994	187.780	180.571	173.367	166.169	158.976	151.788	144.607	137.432	130.263	123.102	115.948	108.802	267.448	267.448	267.448	267.448	267.448	267.448	267.448	267.448	267.448	267.448	267.448	267.448	267.448	267.448
	26	26 MPH	322.606	311.480	300.737	290.365	280.351	270.682	261.347	252.333	243.631	235.228	227.116	219.283	211.720	204.418	197.368	190.322	183.281	176.245	169.214	162.188	155.167	148.152	141.142	134.139	127.142	120.153	113.170	106.195	261.016	261.016	261.016	261.016	261.016	261.016	261.016	261.016	261.016	261.016	261.016	261.016	261.016	261.016
	27	27 MPH	314.877	304.017	293.532	283.409	273.635	264.197	255.086	246.288	237.794	229.593	221.674	214.029	206.648	199.521	192.640	185.763	178.890	172.023	165.160	158.302	151.449	144.602	137.761	130.925	124.096	117.274	110.459	103.651	254.738	254.738	254.738	254.738	254.738	254.738	254.738	254.738	254.738	254.738	254.738	254.738	254.738	254.738
	28	28 MPH	307.333	296.734	286.500	276.619	267.079	257.868	248.974	240.387	232.097	224.092	216.364	208.902	201.697	194.741	188.024	181.312	174.604	167.901	161.203	154.509	147.821	141.138	134.460	127.789	121.123	114.464	107.812	101.167	248.611	248.611	248.611	248.611	248.611	248.611	248.611	248.611	248.611	248.611	248.611	248.611	248.611	248.611
	29	29 MPH	299.970	289.625	279.636	269.992	260.680	251.690	243.009	234.628	226.536	218.723	211.180	203.897	196.865	190.075	183.520	176.968	170.421	163.879	157.341	150.808	144.279	137.756	131.239	124.727	118.221	111.722	105.229	98.744	242.632	242.632	242.632	242.632	242.632	242.632	242.632	242.632	242.632	242.632	242.632	242.632	242.632	242.632
	30	30 MPH	292.783	282.686	272.936	263.523	254.435	245.660	237.187	229.007	221.109	213.483	206.120	199.012	192.148	185.521	179.123	172.728	166.338	159.953	153.571	147.195	140.823	134.456	128.095	121.739	115.389	109.045	102.708	96.378	236.797	236.797	236.797	236.797	236.797	236.797	236.797	236.797	236.797	236.797	236.797	236.797	236.797	236.797
	31	31 MPH	288.566	278.614	269.005	259.728	250.770	242.121	233.771	225.709	217.924	210.408	203.152	196.145	189.381	182.849	176.543	170.241	163.943	157.649	151.359	145.074	138.794	132.519	126.250	119.985	113.727	107.475	101.229	94.990	233.377	233.377	233.377	233.377	233.377	233.377	233.377	233.377	233.377	233.377	233.377	233.377	233.377	233.377
	32	32 MPH	284.410	274.601	265.131	255.987	247.158	238.634	230.404	222.458	214.785	207.378	200.226	193.320	186.653	180.215	174.000	167.789	161.581	155.378	149.179	142.985	136.795	130.611	124.431	118.257	112.089	105.927	99.771	93.622	230.006	230.006	230.006	230.006	230.006	230.006	230.006	230.006	230.006	230.006	230.006	230.006	230.006	230.006
	33	33 MPH	280.314	270.646	261.312	252.300	243.598	235.197	227.085	219.254	211.692	204.391	197.342	190.536	183.964	177.620	171.494	165.372	159.254	153.140	147.031	140.925	134.825	128.730	122.639	116.554	110.475	104.401	98.334	92.273	226.684	226.684	226.684	226.684	226.684	226.684	226.684	226.684	226.684	226.684	226.684	226.684	226.684	226.684
	34	34 MPH	276.276	266.748	257.548	248.666	240.090	231.809	223.815	216.096	208.643	201.447	194.499	187.791	181.315	175.062	169.024	162.990	156.960	150.934	144.913	138.896	132.883	126.875	120.873	114.875	108.883	102.897	96.918	90.944	223.410	223.410	223.410	223.410	223.410	223.410	223.410	223.410	223.410	223.410	223.410	223.410	223.410	223.410
	35	35 MPH	272.297	262.906	253.839	245.084	236.632	228.471	220.591	212.983	205.638	198.546	191.698	185.087	178.703	172.540	166.589	160.643	154.700	148.760	142.826	136.895	130.969	125.048	119.132	113.221	107.315	101.415	95.522	89.634	220.183	220.183	220.183	220.183	220.183	220.183	220.183	220.183	220.183	220.183	220.183	220.183	220.183	220.183
	36	36 MPH	270.703	261.367	252.353	243.649	235.246	227.133	219.300	211.736	204.434	197.383	190.576	184.003	177.657	171.530	165.614	159.702	153.794	147.890	141.989	136.094	130.202	124.316	118.434	112.558	106.687	100.822	94.962	89.110	218.849	218.849	218.849	218.849	218.849	218.849	218.849	218.849	218.849	218.849	218.849	218.849	218.849	218.849
	37	37 MPH	269.118	259.837	250.875	242.223	233.869	225.803	218.016	210.497	203.237	196.228	189.460	182.926	176.617	170.526	164.644	158.767	152.893	147.024	141.158	135.297	129.440	123.588	117.741	111.899	106.062	100.231	94.406	88.588	217.523	217.523	217.523	217.523	217.523	217.523	217.523	217.523	217.523	217.523	217.523	217.523	217.523	217.523
	38	38 MPH	267.542	258.315	249.406	240.805	232.500	224.481	216.739	209.264	202.047	195.079	188.351	181.855	175.583	169.527	163.681	157.837	151.998	146.163	140.332	134.505	128.682	122.865	117.052	111.244	105.441	99.644	93.854	88.069	216.205	216.205	216.205	216.205	216.205	216.205	216.205	216.205	216.205	216.205	216.205	216.205	216.205	216.205
	39	39 MPH	265.976	256.803	247.946	239.395	231.139	223.167	215.470	208.039	200.864	193.937	187.248	180.790	174.555	168.535	162.722	156.913	151.108	145.307	139.510	133.717	127.929	122.145	116.366	110.592	104.824	99.061	93.304	87.554	214.894	214.894	214.894	214.894	214.894	214.894	214.894	214.894	214.894	214.894	214.894	214.894	214.894	214.894
	40	40 MPH	264.419	255.299	246.495	237.993	229.785	221.860	214.209	206.821	199.688	192.801	186.152	179.732	173.533	167.548	161.770	155.995	150.224	144.456	138.693	132.934	127.180	121.430	115.685	109.945	104.210	98.481	92.758	87.041	213.592	213.592	213.592	213.592	213.592	213.592	213.592	213.592	213.592	213.592	213.592	213.592	213.592	213.592
	41	41 MPH	264.489	255.367	246.560	238.057	229.846	221.919	214.266	206.876	199.741	192.852	186.201	179.779	173.579	167.593	161.813	156.036	150.264	144.495	138.730	132.970	127.214	121.462	115.716	109.974	104.238	98.507	92.783	87.064	213.689	213.689	213.689	213.689	213.689	213.689	213.689	213.689	213.689	213.689	213.689	213.689	213.689	213.689
	42	42 MPH	264.559	255.435	246.626	238.120	229.907	221.978	214.323	206.931	199.794	192.904	186.251	179.827	173.625	167.637	161.856	156.078	150.303	144.533	138.767	133.005	127.248	121.495	115.746	110.003	104.266	98.533	92.807	87.087	213.785	213.785	213.785	213.785	213.785	213.785	213.785	213.785	213.785	213.785	213.785	213.785	213.785	213.785

43	43 MPH	264.630	255.503	246.691	238.183	229.969	222.037	214.380	206.986	199.847	192.955	186.300	179.875	173.671	167.682	161.899	156.119	150.343	144.572	138.804	133.040	127.281	121.527	115.777	110.033	104.293	98.560	92.832	87.110	213.881	213.881	213.881	213.881	213.881	213.881	213.881	213.881	213.881	213.881	213.881	213.881	213.881	213.881
44	44 MPH	264.700	255.571	246.757	238.246	230.030	222.096	214.437	207.041	199.900	193.006	186.350	179.923	173.717	167.726	161.942	156.161	150.383	144.610	138.841	133.076	127.315	121.559	115.808	110.062	104.321	98.586	92.857	87.134	213.978	213.978	213.978	213.978	213.978	213.978	213.978	213.978	213.978	213.978	213.978	213.978	213.978	213.978
45	45 MPH	264.770	255.639	246.822	238.310	230.091	222.155	214.494	207.096	199.954	193.057	186.399	179.971	173.764	167.771	161.985	156.202	150.423	144.648	138.878	133.111	127.349	121.591	115.839	110.091	104.349	98.612	92.881	87.157	214.074	214.074	214.074	214.074	214.074	214.074	214.074	214.074	214.074	214.074	214.074	214.074	214.074	214.074
46	46 MPH	266.429	257.240	248.368	239.802	231.532	223.547	215.837	208.393	201.206	194.267	187.567	181.098	174.852	168.822	162.999	157.181	151.366	145.555	139.748	133.945	128.147	122.353	116.564	110.781	105.002	99.230	93.463	87.703	215.374	215.374	215.374	215.374	215.374	215.374	215.374	215.374	215.374	215.374	215.374	215.374	215.374	215.374
47	47 MPH	268.098	258.851	249.924	241.305	232.982	224.947	217.189	209.698	202.466	195.484	188.742	182.232	175.947	169.879	164.020	158.165	152.314	146.466	140.623	134.784	128.949	123.120	117.295	111.475	105.660	99.851	94.048	88.252	216.680	216.680	216.680	216.680	216.680	216.680	216.680	216.680	216.680	216.680	216.680	216.680	216.680	216.680
48	48 MPH	269.777	260.473	251.490	242.816	234.442	226.356	218.549	211.012	203.735	196.708	189.924	183.374	177.049	170.943	165.048	159.156	153.268	147.384	141.504	135.628	129.757	123.891	118.029	112.173	106.322	100.477	94.638	88.805	217.995	217.995	217.995	217.995	217.995	217.995	217.995	217.995	217.995	217.995	217.995	217.995	217.995	217.995
49	49 MPH	271.467	262.104	253.065	244.337	235.910	227.774	219.918	212.334	205.011	197.940	191.114	184.522	178.158	172.014	166.081	160.153	154.228	148.307	142.390	136.478	130.570	124.667	118.769	112.875	106.988	101.106	95.230	89.361	219.318	219.318	219.318	219.318	219.318	219.318	219.318	219.318	219.318	219.318	219.318	219.318	219.318	219.318
50	50 MPH	273.167	263.746	254.650	245.867	237.388	229.201	221.296	213.664	206.295	199.180	192.311	185.678	179.274	173.091	167.122	161.156	155.194	149.236	143.282	137.333	131.388	125.448	119.512	113.583	107.658	101.739	95.827	89.921	220.649	220.649	220.649	220.649	220.649	220.649	220.649	220.649	220.649	220.649	220.649	220.649	220.649	220.649
51	51 MPH	275.403	265.905	256.734	247.880	239.331	231.077	223.107	215.413	207.983	200.810	193.885	187.198	180.742	174.508	168.490	162.475	156.464	150.457	144.455	138.457	132.463	126.474	120.491	114.512	108.539	102.572	96.611	90.657	222.449	222.449	222.449	222.449	222.449	222.449	222.449	222.449	222.449	222.449	222.449	222.449	222.449	222.449
52	52 MPH	277.657	268.081	258.836	249.909	241.290	232.968	224.933	217.176	209.686	202.454	195.472	188.730	182.221	175.937	169.869	163.805	157.745	151.689	145.637	139.590	133.547	127.510	121.477	115.450	109.428	103.412	97.402	91.399	224.263	224.263	224.263	224.263	224.263	224.263	224.263	224.263	224.263	224.263	224.263	224.263	224.263	224.263
53	53 MPH	279.930	270.276	260.954	251.954	243.265	234.875	226.775	218.953	211.402	204.111	197.072	190.275	183.713	177.377	171.259	165.146	159.036	152.931	146.829	140.733	134.641	128.553	122.471	116.395	110.323	104.258	98.199	92.147	226.092	226.092	226.092	226.092	226.092	226.092	226.092	226.092	226.092	226.092	226.092	226.092	226.092	226.092
54	54 MPH	282.221	272.488	263.090	254.017	245.256	236.798	228.631	220.746	213.132	205.782	198.685	191.832	185.216	178.829	172.661	166.497	160.338	154.182	148.031	141.885	135.743	129.606	123.474	117.347	111.226	105.112	99.003	92.901	227.935	227.935	227.935	227.935	227.935	227.935	227.935	227.935	227.935	227.935	227.935	227.935	227.935	227.935
55	55 MPH	284.531	274.718	265.244	256.096	247.264	238.736	230.502	222.552	214.877	207.466	200.311	193.403	186.732	180.292	174.074	167.860	161.650	155.444	149.243	143.046	136.854	130.666	124.484	118.308	112.137	105.972	99.813	93.662	229.794	229.794	229.794	229.794	229.794	229.794	229.794	229.794	229.794	229.794	229.794	229.794	229.794	229.794
56	56 MPH	286.315	276.440	266.906	257.701	248.813	240.232	231.947	223.947	216.224	208.766	201.566	194.615	187.903	181.422	175.165	168.912	162.663	156.418	150.178	143.942	137.711	131.485	125.265	119.049	112.840	106.636	100.439	94.249	231.314	231.314	231.314	231.314	231.314	231.314	231.314	231.314	231.314	231.314	231.314	231.314	231.314	231.314
57	57 MPH	288.109	278.173	268.579	259.316	250.373	241.738	233.400	225.351	217.579	210.075	202.830	195.834	189.080	182.559	176.263	169.971	163.683	157.399	151.119	144.844	138.574	132.309	126.050	119.795	113.547	107.304	101.068	94.839	232.843	232.843	232.843	232.843	232.843	232.843	232.843	232.843	232.843	232.843	232.843	232.843	232.843	232.843
58	58 MPH	289.915	279.916	270.262	260.941	251.942	243.253	234.863	226.763	218.942	211.391	204.101	197.062	190.265	183.703	177.368	171.036	164.709	158.385	152.066	145.752	139.443	133.139	126.840	120.546	114.258	107.977	101.702	95.434	234.383	234.383	234.383	234.383	234.383	234.383	234.383	234.383	234.383	234.383	234.383	234.383	234.383	234.383
59	59 MPH	291.732	281.670	271.956	262.577	253.521	244.777	236.335	228.184	220.315	212.716	205.380	198.297	191.458	184.855	178.479	172.108	165.741	159.378	153.019	146.666	140.317	133.973	127.635	121.302	114.974	108.654	102.339	96.032	235.932	235.932	235.932	235.932	235.932	235.932	235.932	235.932	235.932	235.932	235.932	235.932	235.932	235.932
60	60 MPH	293.560	283.436	273.660	264.222	255.110	246.311	237.816	229.614	221.695	214.049	206.667	199.540	192.658	186.013	179.598	173.187	166.780	160.377	153.978	147.585	141.196	134.813	128.434	122.062	115.695	109.335	102.981	96.634	237.492	237.492	237.492	237.492	237.492	237.492	237.492	237.492	237.492	237.492	237.492	237.492	237.492	237.492
61	61 MPH	295.445	285.255	275.417	265.918	256.747	247.892	239.343	231.088	223.119	215.423	207.994	200.820	193.894	187.207	180.751	174.298	167.850	161.406	154.967	148.532	142.103	135.678	129.259	122.845	116.438	110.036	103.642	97.254	238.952	238.952	238.952	238.952	238.952	238.952	238.952	238.952	238.952	238.952	238.952	238.952	238.952	238.952
62	62 MPH	297.341	287.086	277.185	267.625	258.395	249.484	240.879	232.572	224.551	216.806	209.329	202.110	195.139	188.409	181.911	175.417	168.928	162.442	155.962	149.486	143.015	136.549	130.089	123.634	117.185	110.743	104.307	97.878	240.421	240.421	240.421	240.421	240.421	240.421	240.421	240.421	240.421	240.421	240.421	240.421	240.421	240.421
63	63 MPH	299.250	288.929	278.965	269.343	260.054	251.085	242.426	234.065	225.992	218.198	210.673	203.407	196.392	189.619	183.079	176.543	170.012	163.485	156.963	150.445	143.933	137.426	130.924	124.428	117.938	111.454	104.977	98.507	241.899	241.899	241.899	241.899	241.899	241.899	241.899	241.899	241.899	241.899	241.899	241.899	241.899	241.899
64	64 MPH	301.171	290.784	280.755	271.073	261.724	252.697	243.982	235.567	227.443	219.599	212.025	204.713	197.653	190.836	184.254	177.677	171.104	164.535	157.971	151.411	144.857	138.308	131.764	125.226	118.695	112.169	105.650	99.139	243.386	243.386	243.386	243.386	243.386	243.386	243.386	243.386	243.386	243.386	243.386	243.386	243.386	243.386
65	65 MPH	303.104	292.651	282.558	272.813	263.404	254.319	245.548	237.080	228.903	221.009	213.386	206.027	198.921	192.061	185.437	178.817	172.202	165.591	158.985	152.383	145.787	139.196	132.610	126.030	119.457	112.889	106.329	99.775	244.882	244.882	244.882	244.882	244.882	244.882	244.882	244.882	244.882	244.882	244.882	244.882	244.882	244.882
66	66 MPH	303.727	293.252	283.138	273.373	263.945	254.842	246.052	237.566	229.373	221.462	213.825	206.450	199.330	192.455	185.818	179.184	172.555	165.931	159.311	152.696	146.086	139.482	132.882	126.289	119.702	113.121	106.547	99.980	245.453	245.453	245.453	245.453	245.453	245.453	245.453	245.453	245.453	245.453	245.453	245.453	245.453	245.453
67	67 MPH	304.506	294.004	283.865	274.075	264.622	255.496	246.684	238.176	229.962	222.031	214.373	206.980	199.842	192.949	186.295	179.644	172.998	166.357	159.720	153.088	146.461	139.840	133.224	126.613	120.009	113.411	106.821	100.237	246.169	246.169	246.169	246.169	246.169	246.169	246.169	246.169	246.169	246.169	246.169	246.169	246.169	246.169
68	68 MPH	305.549	295.011	284.837	275.013	265.528	256.371	247.529	238.992	230.750	222.791	215.108	207.689	200.526	193.610	186.933	180.260	173.591	166.927	160.267	153.612	146.963	140.318	133.680	127.047	120.420	113.800	107.186	100.580	247.128	247.128	247.128	247.128	247.128	247.128	247.128	247.128	247.128	247.128	247.128	247.128	247.128	247.128
69	69 MPH	307.120	296.528	286.301	276.427	266.893	257.689	248.801	240.221	231.936	223.937	216.213	208.757	201.557	194.605	187.894	181.186	174.483	167.785	161.091	154.402	147.718	141.040	134.367	127.700	121.039	114.385	107.737	101.097	248.572	248.572	248.572	248.572	248.572	248.572	248.572	248.572	248.572	248.572	248.572	248.572	248.572	248.572
70	70 MPH	306.229	295.668	285.470	275.625	266.119	256.941	248.080	239.524	231.263	223.287	215.586	208.151	200.972	194.041	187.349	180.661	173.977	167.298	160.624	153.954	147.290	140.631	133.977	127.329	120.688	114.053	107.425	100.804	247.752	247.752	247.752	247.752	247.752	247.752	247.752	247.752	247.752	247.752	247.752	247.752	247.752	247.752

Truck Emissions

Note: Auto emissions factors are based on California Air Resources Board's EMFAC2021 Mobile Emissions Inventory for 2022 and 2050

NOx Emissions NOx Diesel

5	5 MPH	1.095	1.058	1.021	0.986	0.952	0.919	0.887	0.857	0.827	0.799	0.771	0.745	0.719	0.694	0.670	0.646	0.622	0.598	0.575	0.551	0.527	0.503	0.479	0.455	0.432	0.408	0.384	0.361	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154
6	6 MPH	1.106	1.068	1.031	0.996	0.961	0.928	0.896	0.865	0.835	0.807	0.779	0.752	0.726	0.701	0.677	0.653	0.628	0.604	0.580	0.556	0.532	0.508	0.484	0.460	0.436	0.412	0.388	0.364	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148
7	7 MPH	1.117	1.079	1.041	1.005	0.971	0.937	0.905	0.874	0.844	0.815	0.786	0.759	0.733	0.708	0.683	0.659	0.635	0.610	0.586	0.562	0.537	0.513	0.489	0.465	0.440	0.416	0.392	0.368	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143
8	8 MPH	1.128	1.089	1.052	1.015	0.980	0.947	0.914	0.882	0.852	0.823	0.794	0.767	0.740	0.715	0.690	0.666	0.641	0.616	0.592	0.567	0.543	0.518	0.494	0.469	0.445	0.420	0.396	0.371	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
9	9 MPH	1.139	1.100	1.062	1.025	0.990	0.956	0.923	0.891	0.860	0.831	0.802	0.774	0.748	0.722	0.697	0.672	0.647	0.622	0.598	0.573	0.548	0.523	0.498	0.474	0.449	0.424	0.400	0.375	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133
10	10 MPH	1.151	1.111	1.073	1.036	1.000	0.965	0.932	0.900	0.869	0.839	0.810	0.782	0.755	0.729	0.704	0.679	0.654	0.629	0.603	0.578	0.553	0.528	0.503	0.478	0.453	0.429	0.404	0.379	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128
11	11 MPH	1.162	1.122	1.083	1.046	1.010	0.975	0.941	0.909	0.877	0.847	0.818	0.790	0.763	0.736	0.711	0.685	0.660	0.635	0.609	0.584	0.559	0.534	0.508	0.483	0.458	0.433	0.408	0.382	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118
12	12 MPH	1.173	1.133	1.094	1.056	1.020	0.984	0.951	0.918	0.886	0.856	0.826	0.798	0.770	0.743	0.718	0.692	0.667	0.641	0.615	0.590	0.564	0.539	0.513	0.488	0.462	0.437	0.412	0.386	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109
13	13 MPH	1.185	1.144	1.105	1.066	1.030	0.994	0.960	0.927	0.895	0.864	0.834	0.805	0.778	0.751	0.725	0.699	0.673	0.647	0.622	0.596	0.570	0.544	0.518	0.493	0.467	0.441	0.416	0.390	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
14	14 MPH	1.197	1.155	1.115	1.077	1.040	1.004	0.969	0.936	0.904	0.873	0.842	0.813	0.785	0.758	0.732	0.706	0.680	0.654	0.628	0.602	0.576	0.550	0.524	0.498	0.472	0.446	0.420	0.394	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
15	15 MPH	1.208	1.167	1.126	1.088	1.050	1.014	0.979	0.945	0.913	0.881	0.851	0.821	0.793	0.766	0.739	0.713	0.687	0.660	0.634	0.608	0.581	0.555	0.529	0.502	0.476	0.450	0.424	0.398	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
16	16 MPH	1.221	1.179	1.138	1.099	1.061	1.024	0.989	0.955	0.922	0.890	0.859	0.830	0.801	0.773	0.747	0.720	0.693	0.667	0.640	0.614	0.587	0.561	0.534	0.508	0.481	0.455	0.428	0.402	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
17	17 MPH	1.233	1.191	1.149	1.110	1.072	1.035	0.999	0.964	0.931	0.899	0.868	0.838	0.809	0.781	0.754	0.727	0.701	0.674	0.647	0.620	0.593	0.566	0.539	0.513	0.486	0.459	0.433	0.406	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
18	18 MPH	1.246	1.203	1.161	1.121	1.082	1.045	1.009	0.974	0.941	0.908	0.877	0.847	0.817	0.789	0.762	0.735	0.708	0.680	0.653	0.626	0.599	0.572	0.545	0.518	0.491	0.464	0.437	0.410	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
19	19 MPH	1.258	1.215	1.173	1.132	1.093	1.056	1.019	0.984	0.950	0.917	0.886	0.855	0.826	0.797	0.770	0.742	0.715	0.687	0.660	0.633	0.605	0.578	0.550	0.523	0.496	0.469	0.441	0.414	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
20	20 MPH	1.271	1.227	1.185	1.144	1.105	1.066	1.030	0.994	0.960	0.927	0.895	0.864	0.834	0.805	0.778	0.750	0.722	0.694	0.667	0.639	0.611	0.584	0.556	0.528	0.501	0.473	0.446	0.418	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
21	21 MPH	1.284	1.239	1.197	1.155	1.116	1.077	1.040	1.004	0.969	0.936	0.904	0.873	0.843	0.813	0.785	0.757	0.729	0.701	0.673	0.645	0.617	0.590	0.562	0.534	0.506	0.478	0.450	0.423	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
22	22 MPH	1.297	1.252	1.209	1.167	1.127	1.088	1.050	1.014	0.979	0.945	0.913	0.881	0.851	0.822	0.793	0.765	0.737	0.708	0.680	0.652	0.624	0.595	0.567	0.539	0.511	0.483	0.455	0.427	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
23	23 MPH	1.310	1.265	1.221	1.179	1.138	1.099	1.061	1.024	0.989	0.955	0.922	0.890	0.860	0.830	0.801	0.773	0.744	0.716	0.687	0.658	0.630	0.601	0.573	0.545	0.516	0.488	0.459	0.431	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048
24	24 MPH	1.323	1.277	1.233	1.191	1.150	1.110	1.072	1.035	0.999	0.965	0.931	0.899	0.868	0.838	0.809	0.780	0.752	0.723	0.694	0.665	0.636	0.608	0.579	0.550	0.521	0.493	0.464	0.435	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
25	25 MPH	1.336	1.290	1.246	1.203	1.161	1.121	1.082	1.045	1.009	0.974	0.941	0.908	0.877	0.847	0.817	0.788	0.759	0.730	0.701	0.672	0.643	0.614	0.585	0.556	0.527	0.498	0.469	0.440	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
26	26 MPH	1.349	1.303	1.258	1.215	1.173	1.132	1.093	1.055	1.019	0.984	0.950	0.917	0.886	0.855	0.826	0.796	0.767	0.737	0.708	0.678	0.649	0.620	0.590	0.561	0.532	0.503	0.473	0.444	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
27	27 MPH	1.363	1.316	1.270	1.227	1.184	1.143	1.104	1.066	1.029	0.994	0.959	0.926	0.894	0.864	0.834	0.804	0.774	0.745	0.715	0.685	0.655	0.626	0.596	0.567	0.537	0.508	0.478	0.449	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
28	28 MPH	1.376	1.329	1.283	1.239	1.196	1.155	1.115	1.076	1.039	1.003	0.969	0.935	0.903	0.872	0.842	0.812	0.782	0.752	0.722	0.692	0.662	0.632	0.602	0.572	0.542	0.513	0.483	0.453	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
29	29 MPH	1.390	1.342	1.296	1.251	1.208	1.166	1.126	1.087	1.050	1.013	0.978	0.945	0.912	0.881	0.850	0.820	0.790	0.759	0.729	0.699	0.669	0.638	0.608	0.578	0.548	0.518	0.488	0.458	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
30	30 MPH	1.404	1.355	1.308	1.263	1.220	1.178	1.137	1.098	1.060	1.023	0.988	0.954	0.921	0.889	0.859	0.828	0.797	0.767	0.736	0.706	0.675	0.645	0.614	0.584	0.553	0.523	0.492	0.462	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
31	31 MPH	1.415	1.366	1.319	1.274	1.230	1.187	1.146	1.107	1.069	1.032	0.996	0.962	0.929	0.897	0.866	0.835	0.804	0.773	0.742	0.711	0.681	0.650	0.619	0.588	0.558	0.527	0.496	0.466	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
32	32 MPH	1.426	1.377	1.330	1.284	1.240	1.197	1.155	1.116	1.077	1.040	1.004	0.970	0.936	0.904	0.873	0.841	0.810	0.779	0.748	0.717	0.686	0.655	0.624	0.593	0.562	0.531	0.500	0.470	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
33	33 MPH	1.438	1.388	1.340	1.294	1.249	1.206	1.165	1.125	1.086	1.048	1.012	0.977	0.944	0.911	0.880	0.848	0.817	0.785	0.754	0.723	0.692	0.660	0.629	0.598	0.567	0.535	0.504	0.473	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
34	34 MPH	1.449	1.399	1.351	1.305	1.260	1.216	1.174	1.134	1.095	1.057	1.020	0.985	0.951	0.918	0.887	0.855	0.823	0.792	0.760	0.729	0.697	0.666	0.634	0.603	0.571	0.540	0.508	0.477	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
35	35 MPH	1.461	1.411	1.362	1.315	1.270	1.226	1.184	1.143	1.103	1.065	1.029	0.993	0.959	0.926	0.894	0.862	0.830	0.798	0.766	0.735	0.703	0.671	0.639	0.607	0.576	0.544	0.513	0.481	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
36	36 MPH	1.472	1.421	1.372	1.325	1.279	1.235	1.192	1.151	1.111	1.073	1.036	1.000	0.966	0.933	0.900	0.868	0.836	0.804	0.772	0.740	0.708	0.676	0.644	0.612	0.580	0.548	0.516	0.484	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
37	37 MPH	1.482	1.431	1.382	1.334	1.288	1.244	1.201	1.159	1.119	1.081	1.044	1.008	0.973	0.939	0.907	0.875	0.842	0.810	0.778	0.745	0.713	0.681	0.649	0.616	0.584	0.552	0.520	0.488	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
38	38 MPH	1.493	1.442	1.392	1.344	1.298	1.253	1.210	1.168	1.128	1.089	1.051	1.015	0.980	0.946	0.914	0.881	0.848	0.816	0.783	0.751	0.718	0.686	0.653	0.621	0.588	0.556	0.524	0.492	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
39	39 MPH	1.504	1.452	1.402	1.354	1.307	1.262	1.218	1.176	1.136	1.097	1.059	1.022	0.987	0.953	0.920	0.887	0.854	0.822	0.789	0.756	0.723	0.691	0.658	0.625	0.593	0.560	0.528	0.495	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
40	40 MPH	1.515	1.463	1.412	1.364	1.317	1.271	1.227	1.185	1.144	1.105	1.067	1.030	0.994	0.960	0.927	0.894	0.861	0.828	0.795	0.762	0.729	0.696	0.663	0.630	0.597	0.564	0.531	0.499	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
41	41 MPH	1.530	1.477	1.426	1.377	1.330	1.284	1.239	1.197	1.155	1.116	1.077	1.040	1.004	0.969	0.936	0.903	0.869	0.836	0.803	0.769	0.736	0.703	0.669	0.636	0.603	0.570	0.537	0.504	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
42	42 MPH	1.545	1.492	1.440	1.391	1.343	1.296	1.252	1.209	1.167	1.127	1.088	1.050	1.014	0.979	0.945	0.912	0.878	0.844	0.810	0.777	0.743	0.710	0.676	0.642	0.609	0.575	0.542	0.509	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
43	43 MPH	1.560	1.507	1.455	1.404	1.356	1.309	1.264	1.221	1.178	1.138	1.099	1.061	1.024	0.989	0.955	0.921	0.887	0.852	0.818	0.784	0.751	0.717	0.683	0.649	0.615	0.581	0.547	0.514	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
44	44 MPH	1.576	1.522	1.469	1.418	1.369	1.322	1.277	1.233	1.190	1.149	1.109	1.071	1.034	0.999	0.964	0.930	0.895	0.861	0.827	0.792	0.758	0.724	0.689	0.655	0.621	0.587	0.553	0.519	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
45	45 MPH	1.591	1.537	1.484	1.432	1.383	1.335	1.289	1.245	1.202	1.160	1.120	1.082	1.044	1.008	0.974	0.939	0.904	0.869	0.835	0.800	0.765	0.731	0.696	0.662	0.627	0.593	0.558	0.524	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
46	46 MPH	1.603	1.548	1.494	1.443	1.393	1.345	1.299	1.254	1.211	1.169	1.129	1.090	1.052	1.016	0.981	0.946	0.911	0.876	0.841	0.806	0.771	0.736	0.701	0.667	0.632	0.597	0.562	0.528	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
47	47 MPH	1.615	1.559	1.505	1.453	1.403	1.355	1.308	1.263	1.219	1.177	1.137	1.097	1.060	1.023	0.988	0.953	0.917	0.882	0.847	0.812	0.777	0.741	0.706	0.671	0.636	0.601	0.566	0.531	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
48	48 MPH	1.626	1.570	1.516	1.464	1.413	1.365	1.317	1.272	1.228	1.186	1.145	1.105	1.067	1.030	0.995	0.959	0.924	0.888	0.853	0.818	0.782	0.747	0.711	0.676	0.641	0.606	0.570	0.535	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
49	49 MPH	1.638	1.582	1.527	1.474	1.423	1.374	1.327	1.281	1.237	1.194	1.153	1.113	1.075	1.038	1.002	0.966	0.931	0.895	0.859	0.823	0.788	0.752	0.717	0.681	0.646	0.610	0.575	0.539	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
50	50 MPH	1.650	1.593	1.538	1.485	1.434	1.384	1.337	1.290	1.246	1.203	1.162	1.121	1.083	1.045	1.009	0.973	0.937	0.901	0.865	0.829	0.794	0.758	0.722	0.686	0.650	0.614	0.579	0.543	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
51	51 MPH	1.664	1.607	1.551	1.498	1.446	1.396	1.348	1.302	1.257	1.213	1.172	1.131	1.092	1.055	1.018	0.982	0.945	0.909	0.873	0.837	0.800	0.764	0.728	0.692	0.656	0.620	0.584	0.548	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
52	52 MPH	1.679	1.621	1.565	1.511	1.459	1.408	1.360	1.313	1.268	1.224	1.182	1.141	1.102	1.064	1.027	0.990	0.954	0.917	0.881	0.844	0.807	0.771	0.734	0.698	0.662	0.625	0.589	0.553	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
53	53 MPH	1.693	1.635	1.578	1.524	1.471	1.421	1.372	1.324	1.279	1.235	1.192	1.151	1.111	1.073	1.036	0.999	0.962	0.925	0.888	0.851	0.814	0.778	0.741	0.704	0.667	0.631	0.594	0.557	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
54	54 MPH	1.708	1.649	1.592	1.537	1.484	1.433	1.384	1.336	1.290	1.245	1.202	1.161	1.121	1.082	1.045	1.008	0.970	0.933	0.896	0.859	0.822	0.784	0.747	0.710	0.673	0.636	0.599	0.562	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
55	55 MPH	1.723	1.663	1.606	1.551	1.497	1.446	1.396	1.348	1.301	1.256	1.213	1.171	1.131	1.092	1.054	1.016	0.979	0.941	0.904	0.866	0.829	0.791	0.754	0.716	0.679	0.642	0.604	0.567	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
56	56 MPH	1.737	1.677	1.619	1.564	1.510	1.458	1.407	1.359	1.312	1.267	1.223	1.181	1.140	1.101	1.063	1.025	0.987	0.949	0.911	0.873	0.836	0.798	0.760	0.722	0.685	0.647	0.609	0.572	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
57	57 MPH	1.752	1.691	1.633	1.577	1.522	1.470	1.419	1.370	1.323	1.277	1.233	1.191	1.150	1.110	1.072	1.033	0.995	0.957	0.919	0.881	0.842	0.804	0.766	0.728	0.690	0.652	0.614	0.577	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
58	58 MPH	1.766	1.705	1.646	1.590	1.535	1.482	1.431	1.381	1.334	1.288	1.243	1.200	1.159	1.119	1.081	1.042	1.003	0.965	0.926	0.888	0.849	0.811	0.773	0.734	0.696	0.658	0.620	0.581	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
59	59 MPH	1.781	1.719	1.660	1.603	1.548	1.494	1.443	1.393	1.345	1.298	1.254	1.210	1.169	1.128	1.089	1.051	1.012	0.973	0.934	0.895	0.857	0.818	0.779	0.740	0.702	0.663	0.625	0.586	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
60	60 MPH	1.796	1.734	1.674	1.616	1.560	1.507	1.455	1.404	1.356	1.309	1.264	1.221	1.178	1.138	1.099	1.059	1.020	0.981	0.942	0.903	0.864	0.825	0.786	0.747	0.708	0.669	0.630	0.591	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
61	61 MPH	1.807	1.745	1.684	1.626	1.570	1.516	1.464	1.413	1.365	1.317	1.272	1.228	1.186	1.145	1.105	1.066	1.027	0.987	0.948	0.908	0.869	0.830	0.791	0.751	0.712	0.673	0.634	0.595	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
62	62 MPH	1.818	1.756	1.695	1.637	1.580	1.526	1.473	1.422	1.373	1.326	1.280	1.236	1.193	1.152	1.112	1.073	1.033	0.993	0.954	0.914	0.875	0.835	0.795	0.756	0.717	0.677	0.638	0.599	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
63	63 MPH	1.830	1.767	1.706	1.647	1.590	1.535	1.482	1.431	1.382	1.334	1.288	1.244	1.201	1.159	1.119	1.079	1.039	1.000	0.960	0.920	0.880	0.840	0.800	0.761	0.721	0.681	0.642	0.602	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
64	64 MPH	1.841	1.778	1.716	1.657	1.600	1.545	1.492	1.440	1.390	1.342	1.296	1.251	1.208	1.167	1.126	1.086	1.046	1.006	0.966	0.926	0.886	0.846	0.806	0.766	0.726	0.686	0.646	0.606	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
65	65 MPH	1.853	1.789	1.727	1.668	1.610	1.555	1.501	1.449	1.399	1.351	1.304	1.259	1.216	1.174	1.133	1.093	1.053	1.012	0.972	0.931	0.891	0.851	0.811	0.770	0.730	0.690	0.650	0.610	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
66	66 MPH	1.854	1.790	1.729	1.669	1.611	1.556	1.502	1.450	1.400	1.352	1.305	1.260	1.217	1.175	1.134	1.094	1.053	1.013	0.973	0.932	0.892	0.852	0.811	0.771	0.731	0.691	0.650	0.610	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
67	67 MPH	1.856	1.792	1.730	1.671	1.613	1.557	1.504	1.452	1.402	1.353	1.307	1.262	1.218	1.176	1.136	1.095	1.055	1.014	0.974	0.933	0.893	0.852	0.812	0.772	0.732	0.691	0.651	0.611	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
68	68 MPH	1.859	1.795	1.733	1.673	1.615	1.560	1.506	1.454	1.404	1.355	1.309	1.264	1.220	1.178	1.137	1.097	1.056	1.016	0.975	0.935	0.894	0.854	0.813	0.773	0.733	0.692	0.652	0.612	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
69	69 MPH	1.863	1.799	1.737	1.677	1.619	1.563	1.509	1.457	1.407	1.358	1.311	1.266	1.223	1.180	1.140	1.099	1.058	1.018	0.977	0.936	0.896	0.855	0.815	0.775	0.734	0.694	0.653	0.613	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
70	70 MPH	1.861	1.796	1.734	1.675	1.617	1.561	1.507	1.455	1.405	1.357	1.310	1.265	1.221	1.179	1.138	1.098	1.057	1.016	0.976	0.935	0.895	0.854	0.814	0.774	0.733	0.693	0.653	0.612	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020

PM2.5 Emissions PM2.5

5	5 MPH	0.986	0.952	0.919	0.887	0.857	0.827	0.799	0.771	0.744	0.719	0.694	0.670	0.647	0.625	0.603	0.582	0.560	0.539	0.517	0.496	0.474	0.453	0.431	0.410	0.388	0.367	0.346	0.324	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
6	6 MPH	0.917	0.885	0.855	0.825	0.797	0.769	0.743	0.717	0.692	0.668	0.645	0.623	0.602	0.581	0.561	0.541	0.521	0.501	0.481	0.461	0.441	0.421	0.401	0.381	0.361	0.341	0.322	0.302	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
7	7 MPH	0.853	0.823	0.795	0.767	0.741	0.715	0.691	0.667	0.644	0.622	0.600	0.580	0.560	0.540	0.522	0.503	0.484	0.466	0.447	0.429	0.410	0.392	0.373	0.355	0.336	0.318	0.299	0.281	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
8	8 MPH	0.793	0.766	0.739	0.714	0.689	0.665	0.642	0.620	0.599	0.578	0.558	0.539	0.520	0.502	0.485	0.468	0.451	0.433	0.416	0.399	0.381	0.364	0.347	0.330	0.313	0.295	0.278	0.261	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
9	9 MPH	0.738	0.712	0.688	0.664	0.641	0.619	0.597	0.577	0.557	0.538	0.519	0.501	0.484	0.467	0.451	0.435	0.419	0.403	0.387	0.371	0.355	0.339	0.323	0.307	0.291	0.275	0.259	0.243	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
10	10 MPH	0.686	0.662	0.639	0.617	0.596	0.576	0.556	0.537	0.518	0.500	0.483	0.466	0.450	0.435	0.420	0.405	0.390	0.375	0.360	0.345	0.330	0.315	0.300	0.285	0.270	0.255	0.241	0.226	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
11	11 MPH	0.644	0.621	0.600	0.579	0.559	0.540	0.521	0.503	0.486	0.469	0.453	0.437	0.422	0.408	0.394	0.380	0.366	0.352	0.338	0.324	0.310	0.296	0.282	0.268	0.254	0.240	0.226	0.212	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
12	12 MPH	0.604	0.583	0.563	0.544	0.525	0.507	0.489	0.472	0.456	0.440	0.425	0.411	0.396	0.383	0.369	0.356	0.343	0.330	0.317	0.304	0.290	0.277	0.264	0.251	0.238	0.225	0.212	0.199	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
13	13 MPH	0.567	0.547	0.528	0.510	0.492	0.475	0.459	0.443	0.428	0.413	0.399	0.385	0.372	0.359	0.347	0.334	0.322	0.310	0.297	0.285	0.273	0.260	0.248	0.236	0.223	0.211	0.199	0.187	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
14	14 MPH	0.532	0.513	0.496	0.479	0.462	0.446	0.431	0.416	0.402	0.388	0.374	0.361	0.349	0.337	0.325	0.314	0.302	0.291	0.279	0.267	0.256	0.244	0.233	0.221	0.210	0.198	0.187	0.175	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
15	15 MPH	0.499	0.482	0.465	0.449	0.434	0.419	0.404	0.390	0.377	0.364	0.351	0.339	0.327	0.316	0.305	0.294	0.283	0.273	0.262	0.251	0.240	0.229	0.218	0.207	0.197	0.186	0.175	0.164	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
16	16 MPH	0.473	0.456	0.440	0.425	0.411	0.396	0.383	0.370	0.357	0.345	0.333	0.321	0.310	0.299	0.289	0.279	0.268	0.258	0.248	0.238	0.227	0.217	0.207	0.196	0.186	0.176	0.166	0.156	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
17	17 MPH	0.447	0.432	0.417	0.403	0.389	0.375	0.363	0.350	0.338	0.326	0.315	0.304	0.294	0.284	0.274	0.264	0.254	0.244	0.235	0.225	0.215	0.206	0.196	0.186	0.176	0.167	0.157	0.147	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
18	18 MPH	0.424	0.409	0.395	0.381	0.368	0.356	0.343	0.331	0.320	0.309	0.298	0.288	0.278	0.269	0.259	0.250	0.241	0.232	0.222	0.213	0.204	0.195	0.185	0.176	0.167	0.158	0.149	0.140	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
19	19 MPH	0.401	0.388	0.374	0.361	0.349	0.337	0.325	0.314	0.303	0.293	0.283	0.273	0.263	0.254	0.246	0.237	0.228	0.219	0.211	0.202	0.193	0.184	0.176	0.167	0.158	0.149	0.141	0.132	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
20	20 MPH	0.380	0.367	0.354	0.342	0.330	0.319	0.308	0.297	0.287	0.277	0.268	0.258	0.249	0.241	0.233	0.224	0.216	0.208	0.199	0.191	0.183	0.175	0.166	0.158	0.150	0.142	0.133	0.125	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
21	21 MPH	0.363	0.351	0.339	0.327	0.316	0.305	0.294	0.284	0.274	0.265	0.256	0.247	0.238	0.230	0.222	0.214	0.206	0.199	0.191	0.183	0.175	0.167	0.159	0.151	0.143	0.135	0.127	0.120	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
22	22 MPH	0.347	0.335	0.324	0.313	0.302	0.291	0.281	0.272	0.262	0.253	0.245	0.236	0.228	0.220	0.213	0.205	0.197	0.190	0.182	0.175	0.167	0.160	0.152	0.144	0.137	0.129	0.122	0.114	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
23	23 MPH	0.332	0.321	0.310	0.299	0.289	0.279	0.269	0.260	0.251	0.242	0.234	0.226	0.218	0.210	0.203	0.196	0.189	0.181	0.174	0.167	0.160	0.153	0.145	0.138	0.131	0.124	0.117	0.109	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
24	24 MPH	0.318	0.307	0.296	0.286	0.276	0.266	0.257	0.248	0.240	0.232	0.224	0.216	0.208	0.201	0.194	0.187	0.180	0.173	0.167	0.160	0.153	0.146	0.139	0.132	0.125	0.118	0.111	0.105	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
25	25 MPH	0.304	0.293	0.283	0.273	0.264	0.255	0.246	0.237	0.229	0.221	0.214	0.206	0.199	0.192	0.186	0.179	0.172	0.166	0.159	0.153	0.146	0.139	0.133	0.126	0.120	0.113	0.106	0.100	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
26	26 MPH	0.293	0.283	0.273	0.264	0.255	0.246	0.237	0.229	0.221	0.214	0.206	0.199	0.192	0.186	0.179	0.173	0.166	0.160	0.154	0.147	0.141	0.135	0.128	0.122	0.115	0.109	0.103	0.096	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
27	27 MPH	0.283	0.273	0.264	0.255	0.246	0.237	0.229	0.221	0.214	0.206	0.199	0.192	0.186	0.179	0.173	0.167	0.161	0.155	0.148	0.142	0.136	0.130	0.124	0.118	0.111	0.105	0.099	0.093	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
28	28 MPH	0.273	0.264	0.255	0.246	0.237	0.229	0.221	0.214	0.206	0.199	0.192	0.186	0.179	0.173	0.167	0.161	0.155	0.149	0.143	0.137	0.131	0.125	0.119	0.114	0.108	0.102	0.096	0.090	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
29	29 MPH	0.264	0.254	0.246	0.237	0.229	0.221	0.214	0.206	0.199	0.192	0.186	0.179	0.173	0.167	0.161	0.155	0.150	0.144	0.138	0.132	0.127	0.121	0.115	0.110	0.104	0.098	0.092	0.087	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
30	30 MPH	0.254	0.246	0.237	0.229	0.221	0.213	0.206	0.199	0.192	0.185	0.179	0.173	0.167	0.161	0.156	0.150	0.145	0.139	0.133	0.128	0.122	0.117	0.111	0.106	0.100	0.095	0.089	0.084	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
31	31 MPH	0.247	0.239	0.231	0.223	0.215	0.208	0.200	0.194	0.187	0.180	0.174	0.168	0.162	0.157	0.151	0.146	0.141	0.135	0.130	0.124	0.119	0.114	0.108	0.103	0.098	0.092	0.087	0.081	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
32	32 MPH	0.241	0.232	0.224	0.217	0.209	0.202	0.195	0.188	0.182	0.175	0.169	0.164	0.158	0.152	0.147	0.142	0.137	0.131	0.126	0.121	0.116	0.110	0.105	0.100	0.095	0.090	0.084	0.079	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
33	33 MPH	0.234	0.226	0.218	0.211	0.203	0.196	0.190	0.183	0.177	0.171	0.165	0.159	0.154	0.148	0.143	0.138	0.133	0.128	0.123	0.118	0.113	0.107	0.102	0.097	0.092	0.087	0.082	0.077	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
34	34 MPH	0.228	0.220	0.212	0.205	0.198	0.191	0.184	0.178	0.172	0.166	0.160	0.155	0.149	0.144	0.139	0.134	0.129	0.124	0.119	0.114	0.109	0.104	0.100	0.095	0.090	0.085	0.080	0.075	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
35	35 MPH	0.221	0.214	0.206	0.199	0.192	0.186	0.179	0.173	0.167	0.161	0.156	0.150	0.145	0.140	0.135	0.131	0.126	0.121	0.116	0.111	0.106	0.102	0.097	0.092	0.087	0.082	0.078	0.073	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
36	36 MPH	0.217	0.210	0.202	0.195	0.189	0.182	0.176	0.170	0.164	0.158	0.153	0.148	0.142	0.138	0.133	0.128	0.123	0.119	0.114	0.109	0.104	0.100	0.095	0.090	0.086	0.081	0.076	0.071	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
37	37 MPH	0.213	0.206	0.199	0.192	0.185	0.179	0.173	0.167	0.161	0.155	0.150	0.145	0.140	0.135	0.130	0.126	0.121	0.116	0.112	0.107	0.102	0.098	0.093	0.089	0.084	0.079	0.075	0.070	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
38	38 MPH	0.209	0.202	0.195	0.188	0.182	0.175	0.169	0.163	0.158	0.152	0.147	0.142	0.137	0.132	0.128	0.123	0.119	0.114	0.110	0.105	0.100	0.096	0.091	0.087	0.082	0.078	0.073	0.069	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
39	39 MPH	0.205	0.198	0.191	0.184	0.178	0.172	0.166	0.160	0.155	0.149	0.144	0.139	0.135	0.130	0.125	0.121	0.116	0.112	0.108	0.103	0.099	0.094	0.090	0.085	0.081	0.076	0.072	0.067	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
40	40 MPH	0.201	0.194	0.187	0.181	0.175	0.169	0.163	0.157	0.152	0.147	0.142	0.137	0.132	0.127	0.123	0.119	0.114	0.110	0.105	0.101	0.097	0.092	0.088	0.084	0.079	0.075	0.071	0.066	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
41	41 MPH	0.200	0.193	0.186	0.180	0.173	0.167	0.162	0.156	0.151	0.146	0.141	0.136	0.131	0.126	0.122	0.118	0.113	0.109	0.105	0.100	0.096	0.092	0.087	0.083	0.079	0.074	0.070	0.066	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
42	42 MPH	0.198	0.191	0.185	0.178	0.172	0.166	0.161	0.155	0.150	0.144	0.139	0.135	0.130	0.126	0.121	0.117	0.113	0.108	0.104	0.100	0.095	0.091	0.087	0.082	0.078	0.074	0.070	0.065	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
43	43 MPH	0.197	0.190	0.183	0.177	0.171	0.165	0.159	0.154	0.149	0.143	0.138	0.134	0.129	0.125	0.120	0.116	0.112	0.107	0.103	0.099	0.095	0.090	0.086	0.082	0.078	0.073	0.069	0.065	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
44	44 MPH	0.195	0.189	0.182	0.176	0.170	0.164	0.158	0.153	0.147	0.142	0.137	0.133	0.128	0.124	0.119	0.115	0.111	0.107	0.102	0.098	0.094	0.090	0.085	0.081	0.077	0.073	0.068	0.064	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
45	45 MPH	0.194	0.187	0.181	0.174	0.168	0.163	0.157	0.152	0.146	0.141	0.136	0.132	0.127	0.123	0.119	0.114	0.110	0.106	0.102	0.097	0.093	0.089	0.085	0.081	0.076	0.072	0.068	0.064	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
46	46 MPH	0.194	0.187	0.181	0.174	0.168	0.163	0.157	0.152	0.146	0.141	0.136	0.132	0.127	0.123	0.119	0.114	0.110	0.106	0.102	0.097	0.093	0.089	0.085	0.081	0.076	0.072	0.068	0.064	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
47	47 MPH	0.194	0.187	0.180	0.174	0.168	0.162	0.157	0.151	0.146	0.141	0.136	0.132	0.127	0.123	0.118	0.114	0.110	0.106	0.102	0.097	0.093	0.089	0.085	0.080	0.076	0.072	0.068	0.064	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
48	48 MPH	0.193	0.187	0.180	0.174	0.168	0.162	0.157	0.151	0.146	0.141	0.136	0.132	0.127	0.123	0.118	0.114	0.110	0.106	0.101	0.097	0.093	0.089	0.085	0.080	0.076	0.072	0.068	0.064	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
49	49 MPH	0.193	0.187	0.180	0.174	0.168	0.162	0.157	0.151	0.146	0.141	0.136	0.131	0.127	0.123	0.118	0.114	0.110	0.106	0.101	0.097	0.093	0.089	0.085	0.080	0.076	0.072	0.068	0.064	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
50	50 MPH	0.193	0.187	0.180	0.174	0.168	0.162	0.157	0.151	0.146	0.141	0.136	0.131	0.127	0.122	0.118	0.114	0.110	0.106	0.101	0.097	0.093	0.089	0.085	0.080	0.076	0.072	0.068	0.064	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
51	51 MPH	0.195	0.188	0.182	0.176	0.170	0.164	0.158	0.153	0.147	0.142	0.137	0.133	0.128	0.124	0.119	0.115	0.111	0.107	0.102	0.098	0.094	0.090	0.085	0.081	0.077	0.073	0.068	0.064	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
52	52 MPH	0.197	0.190	0.184	0.177	0.171	0.165	0.160	0.154	0.149	0.144	0.139	0.134	0.129	0.125	0.121	0.116	0.112	0.108	0.103	0.099	0.095	0.090	0.086	0.082	0.078	0.073	0.069	0.065	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003

	53 MPH	0.199	0.192	0.185	0.179	0.173	0.167	0.161	0.156	0.150	0.145	0.140	0.135	0.130	0.126	0.122	0.117	0.113	0.109	0.104	0.100	0.096	0.091	0.087	0.083	0.078	0.074	0.070	0.065	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	54 MPH	0.201	0.194	0.187	0.181	0.174	0.168	0.163	0.157	0.152	0.146	0.141	0.136	0.132	0.127	0.123	0.118	0.114	0.110	0.105	0.101	0.097	0.092	0.088	0.083	0.079	0.075	0.070	0.066	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	55 MPH	0.203	**0.196**	**0.189**	**0.182**	**0.176**	**0.170**	**0.164**	**0.158**	**0.153**	**0.148**	**0.143**	**0.138**	**0.133**	**0.128**	**0.124**	**0.120**	**0.115**	**0.111**	**0.106**	**0.102**	**0.097**	**0.093**	**0.089**	**0.084**	**0.080**	**0.075**	**0.071**	**0.067**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	56 MPH	0.207	0.199	0.193	0.186	0.179	0.173	0.167	0.162	0.156	0.151	0.145	0.140	0.136	0.131	0.126	0.122	0.117	0.113	0.108	0.104	0.099	0.095	0.090	0.086	0.081	0.077	0.072	0.068	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	57 MPH	0.211	0.203	0.196	0.189	0.183	0.177	0.171	0.165	0.159	0.154	0.148	0.143	0.138	0.133	0.129	0.124	0.120	0.115	0.110	0.106	0.101	0.097	0.092	0.088	0.083	0.078	0.074	0.069	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	58 MPH	0.215	0.207	0.200	0.193	0.186	0.180	0.174	0.168	0.162	0.156	0.151	0.146	0.141	0.136	0.131	0.127	0.122	0.117	0.113	0.108	0.103	0.099	0.094	0.089	0.085	0.080	0.075	0.071	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	59 MPH	0.219	0.211	0.204	0.197	0.190	0.184	0.177	0.171	0.165	0.159	0.154	0.149	0.144	0.139	0.134	0.129	0.124	0.120	0.115	0.110	0.105	0.100	0.096	0.091	0.086	0.081	0.077	0.072	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	60 MPH	0.223	**0.215**	**0.208**	**0.201**	**0.194**	**0.187**	**0.181**	**0.174**	**0.168**	**0.163**	**0.157**	**0.152**	**0.146**	**0.141**	**0.136**	**0.132**	**0.127**	**0.122**	**0.117**	**0.112**	**0.107**	**0.102**	**0.098**	**0.093**	**0.088**	**0.083**	**0.078**	**0.073**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	61 MPH	0.229	0.221	0.213	0.206	0.199	0.192	0.185	0.179	0.173	0.167	0.161	0.156	0.150	0.145	0.140	0.135	0.130	0.125	0.120	0.115	0.110	0.105	0.100	0.095	0.090	0.085	0.080	0.075	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	62 MPH	0.235	0.227	0.219	0.212	0.204	0.197	0.190	0.184	0.178	0.171	0.166	0.160	0.154	0.149	0.144	0.139	0.134	0.128	0.123	0.118	0.113	0.108	0.103	0.098	0.093	0.088	0.082	0.077	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	63 MPH	0.241	0.233	0.225	0.217	0.210	0.203	0.196	0.189	0.182	0.176	0.170	0.164	0.158	0.153	0.148	0.142	0.137	0.132	0.127	0.121	0.116	0.111	0.106	0.100	0.095	0.090	0.085	0.079	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	64 MPH	0.248	0.239	0.231	0.223	0.215	0.208	0.201	0.194	0.187	0.181	0.174	0.168	0.163	0.157	0.152	0.146	0.141	0.135	0.130	0.125	0.119	0.114	0.108	0.103	0.098	0.092	0.087	0.082	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	65 MPH	0.255	**0.246**	**0.237**	**0.229**	**0.221**	**0.214**	**0.206**	**0.199**	**0.192**	**0.186**	**0.179**	**0.173**	**0.167**	**0.161**	**0.156**	**0.150**	**0.145**	**0.139**	**0.133**	**0.128**	**0.122**	**0.117**	**0.111**	**0.106**	**0.100**	**0.095**	**0.089**	**0.084**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	66 MPH	0.259	0.250	0.241	0.233	0.225	0.217	0.209	0.202	0.195	0.189	0.182	0.176	0.170	0.164	0.158	0.153	0.147	0.141	0.136	0.130	0.124	0.119	0.113	0.108	0.102	0.096	0.091	0.085	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	67 MPH	0.264	0.255	0.246	0.237	0.229	0.221	0.214	0.206	0.199	0.192	0.186	0.179	0.173	0.167	0.161	0.156	0.150	0.144	0.138	0.133	0.127	0.121	0.115	0.110	0.104	0.098	0.093	0.087	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	68 MPH	0.271	0.261	0.252	0.244	0.235	0.227	0.219	0.212	0.204	0.197	0.191	0.184	0.178	0.172	0.166	0.160	0.154	0.148	0.142	0.136	0.130	0.124	0.118	0.113	0.107	0.101	0.095	0.089	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	69 MPH	0.282	0.272	0.263	0.254	0.245	0.236	0.228	0.220	0.213	0.205	0.198	0.191	0.185	0.178	0.172	0.166	0.160	0.154	0.148	0.142	0.135	0.129	0.123	0.117	0.111	0.105	0.099	0.093	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	70 MPH	0.275	**0.266**	**0.257**	**0.248**	**0.239**	**0.231**	**0.223**	**0.215**	**0.208**	**0.201**	**0.194**	**0.187**	**0.181**	**0.175**	**0.169**	**0.163**	**0.156**	**0.150**	**0.144**	**0.138**	**0.132**	**0.126**	**0.121**	**0.115**	**0.109**	**0.103**	**0.097**	**0.091**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
SOx Emissions	SOx																																										
	5 MPH	0.010	**0.010**	**0.009**	**0.009**	**0.009**	**0.008**	**0.008**	**0.008**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.006**	**0.006**	**0.006**	**0.006**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.004**	**0.004**	**0.004**	**0.004**	**0.003**	**0.003**	0.008	**0.008**	**0.008**	**0.008**	**0.008**	**0.008**	**0.008**	**0.008**	**0.008**	**0.008**	**0.008**	**0.008**	**0.008**	**0.008**
	6 MPH	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
	7 MPH	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
	8 MPH	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
	9 MPH	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	10 MPH	0.008	**0.008**	**0.008**	**0.008**	**0.007**	**0.007**	**0.007**	**0.007**	**0.006**	**0.006**	**0.006**	**0.006**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	0.007	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**
	11 MPH	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	12 MPH	0.008	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	13 MPH	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
	14 MPH	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
	15 MPH	0.007	**0.007**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	0.006	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**
	16 MPH	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
	17 MPH	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	18 MPH	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	19 MPH	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	20 MPH	0.006	**0.006**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	0.005	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**
	21 MPH	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	22 MPH	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	23 MPH	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	24 MPH	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	25 MPH	0.005	**0.005**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	0.004	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**
	26 MPH	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	27 MPH	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	28 MPH	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	29 MPH	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	30 MPH	0.004	**0.004**	**0.004**	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	31 MPH	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	32 MPH	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	33 MPH	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	34 MPH	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	35 MPH	0.004	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	36 MPH	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	37 MPH	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	38 MPH	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	39 MPH	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	40 MPH	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	41 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	42 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	43 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	44 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	45 MPH	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	46 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	47 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	48 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	49 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	50 MPH	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	51 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	52 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	53 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	54 MPH	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	55 MPH	0.004	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	56 MPH	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	57 MPH	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	58 MPH	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	59 MPH	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	60 MPH	0.004	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	**0.001**	0.003	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	61 MPH	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	62 MPH	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	63 MPH	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	64 MPH	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	65 MPH	0.004	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	0.004	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**
	66 MPH	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	67 MPH	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	68 MPH	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	69 MPH	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	70 MPH	0.005	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	0.004	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**
CO2 Emissions	CO2																																										
	5 MPH	1047.246	**1011.128**	**976.255**	**942.586**	**910.077**	**878.690**	**848.386**	**819.126**	**790.876**	**763.599**	**737.264**	**711.837**	**687.287**	**663.583**	**640.697**	**617.826**	**594.969**	**572.128**	**549.303**	**526.494**	**503.703**	**480.930**	**458.177**	**435.443**	**412.730**	**390.040**	**367.373**	**344.731**	884.174	**884.174**	**884.174**	**884.174**	**884.174**	**884.174**	**884.174**	**884.174**	**884.174**	**884.174**	**884.174**	**884.174**	**884.174**	**884.174**
	6 MPH	1011.829	976.933	943.240	910.709	879.300	848.974	819.694	791.424	764.129	737.776	712.331	687.764	664.044	641.142	619.030	596.932	574.848	552.779	530.726	508.689	486.669	464.666	442.682	420.717	398.772	376.849	354.949	333.072	854.243	854.243	854.243	854.243	854.243	854.243	854.243	854.243	854.243	854.243	854.243	854.243	854.243	854.243
	7 MPH	977.611	943.895	911.341	879.910	849.563	820.263	791.974	764.660	738.288	712.825	688.241	664.505	641.587	619.459	598.095	576.744	555.408	534.085	512.778	491.486	470.210	448.952	427.711	406.489	385.287	364.105	342.945	321.808	825.326	825.326	825.326	825.326	825.326	825.326	825.326	825.326	825.326	825.326	825.326	825.326	825.326	825.326
	8 MPH	944.550	911.974	880.521	850.153	820.833	792.523	765.190	738.800	713.320	688.719	664.966	642.032	619.889	598.510	577.869	557.240	536.625	516.023	495.436	474.865	454.309	433.769	413.247	392.742	372.257	351.791	331.347	310.925	797.388	797.388	797.388	797.388	797.388	797.388	797.388	797.388	797.388	797.388	797.388	797.388	797.388	797.388
	9 MPH	912.606	881.132	850.743	821.402	793.073	765.721	739.313	713.815	689.197	665.427	642.478	620.320	598.926	578.270	558.326	538.395	518.477	498.572	478.682	458.805	438.945	419.100	399.271	379.460	359.668	339.894	320.141	300.410	770.395	770.395	770.395	770.395	770.395	770.395	770.395	770.395	770.395	770.395	770.395	770.395	770.395	770.395
	10 MPH	881.744	**851.334**	**821.972**	**793.624**	**766.253**	**739.826**	**714.310**	**689.675**	**665.889**	**642.924**	**620.750**	**599.341**	**578.671**	**558.713**	**539.444**	**520.187**	**500.943**	**481.711**	**462.493**	**443.289**	**424.100**	**404.926**	**385.769**	**366.628**	**347.504**	**328.400**	**309.315**	**290.251**	744.316	**744.316**	**744.316**	**744.316**	**744.316**	**744.316**	**744.316**	**744.316**	**744.316**	**744.316**	**744.316**	**744.316**	**744.316**	**744.316**
	11 MPH	849.266	819.976	791.696	764.392	738.029	712.576	688.000	664.272	641.362	619.243	597.886	577.266	557.357	538.134	519.575	501.027	482.491	463.968	445.458	426.962	408.479	390.012	371.559	353.123	334.705	316.304	297.922	279.560	716.947	716.947	716.947	716.947	716.947	716.947	716.947	716.947	716.947	716.947	716.947	716.947	716.947	716.947
	12 MPH	817.985	789.774	762.535	736.237	710.845	686.329	662.659	639.804	617.739	596.434	575.864	556.003	536.827	518.313	500.437	482.572	464.720	446.879	429.050	411.235	393.433	375.646	357.874	340.117	322.376	304.653	286.948	269.263	690.585	690.585	690.585	690.585	690.585	690.585	690.585	690.585	690.585	690.585	690.585	690.585	690.585	690.585
	13 MPH	787.855	760.683	734.449	709.119	684.662	661.049	638.251	616.238	594.985	574.465	554.653	535.523	517.054	499.222	482.004	464.798	447.602	430.419	413.247	396.088	378.942	361.810	344.692	327.589	310.502	293.432	276.379	259.345	665.191	665.191	665.191	665.191	665.191	665.191	665.191	665.191	665.191	665.191	665.191	665.191	665.191	665.191
	14 MPH	758.836	732.665	707.396	682.999	659.444	636.701	614.742	593.540	573.070	553.306	534.223	515.798	498.009	480.834	464.250	447.678	431.116	414.565	398.026	381.499	364.984	348.483	331.996	315.523	299.065	282.624	266.199	249.792	640.732	640.732	640.732	640.732	640.732	640.732	640.732	640.732	640.732	640.732	640.732	640.732	640.732	640.732
	15 MPH	730.886	**705.678**	**681.341**	**657.842**	**635.154**	**613.249**	**592.099**	**571.678**	**551.962**	**532.925**	**514.546**	**496.800**	**479.666**	**463.123**	**447.150**	**431.188**	**415.236**	**399.295**	**383.365**	**367.447**	**351.541**	**335.647**	**319.767**	**303.901**	**288.050**	**272.214**	**256.394**	**240.592**	617.172	**617.172**	**617.172**	**617.172**	**617.172**	**617.172**	**617.172**	**617.172**	**617.172**	**617.172**	**617.172**	**617.172**	**617.172**	**617.172**
	16 MPH	702.991	678.746	655.337	632.736	610.914	589.844	569.501	549.860	530.896	512.586	494.908	477.839	461.359	445.448	430.085	414.732	399.389	384.056	368.734	353.423	338.124	322.837	307.563	292.303	277.056	261.825	246.609	231.410	593.376	593.376	593.376	593.376	593.376	593.376	593.376	593.376	593.376	593.376	593.376	593.376	593.376	593.376
	17 MPH	676.162	652.842	630.326	608.587	587.598	567.333	547.766	528.875	510.634	493.023	476.020	459.603	443.752	428.447	413.671	398.904	384.146	369.398	354.661	339.935	325.220	310.516	295.825	281.147	266.482	251.832	237.197	222.578	570.497	570.497	570.497	570.497	570.497	570.497	570.497	570.497	570.497	570.497	570.497	570.497	570.497	570.497
	18 MPH	650.356	627.926	606.270	585.361	565.172	545.680	526.861	508.690	491.146	474.207	457.853	442.062	426.816	412.096	397.883	383.679	369.485	355.300	341.126	326.961	312.808	298.665	284.535	270.417	256.312	242.221	228.144	214.083	548.501	548.501	548.501	548.501	548.501	548.501	548.501	548.501	548.501	548.501	548.501	548.501	548.501	548.501
	19 MPH	625.535	603.961	583.132	563.020	543.603	524.854	506.753	489.276	472.401	456.109	440.379	425.191	410.526	396.368	382.698	369.036	355.384	341.740	328.106	314.483	300.869	287.267	273.676	260.096	246.530	232.976	219.437	205.913	527.353	527.353	527.353	527.353	527.353	527.353	527.353	527.353	527.353	527.353	527.353	527.353	527.353	527.353
	20 MPH	601.661	**580.911**	**560.876**	**541.533**	**522.856**	**504.823**	**487.413**	**470.603**	**454.372**	**438.702**	**423.572**	**408.963**	**394.859**	**381.241**	**368.092**	**354.952**	**341.820**	**328.698**	**315.584**	**302.480**	**289.387**	**276.303**	**263.231**	**250.170**	**237.121**	**224.085**	**211.062**	**198.054**	507.020	**507.020**	**507.020**	**507.020**	**507.020**	**507.020**	**507.020**	**507.020**	**507.020**	**507.020**	**507.020**	**507.020**	**507.020**	**507.020**
	21 MPH	580.896	560.862	541.518	522.842	504.810	487.400	470.590	454.360	438.690	423.560	408.952	394.848	381.231	368.082	355.388	342.701	330.023	317.353	304.692	292.041	279.399	266.767	254.146	241.536	228.937	216.351	203.778	191.218	489.474	489.474	489.474	489.474	489.474	489.474	489.474	489.474	489.474	489.474	489.474	489.474	489.474	489.474
	22 MPH	560.847	541.504	522.828	504.797	487.387	470.578	454.348	438.679	423.549	408.942	394.838	381.220	368.073	355.378	343.122	330.873	318.632	306.400	294.176	281.961	269.756	257.560	245.374	233.199	221.036	208.884	196.745	184.619	472.536	472.536	472.536	472.536	472.536	472.536	472.536	472.536	472.536	472.536	472.536	472.536	472.536	472.536
	23 MPH	541.490	522.815	504.784	487.374	470.566	454.336	438.667	423.538	408.931	394.827	381.210	368.063	355.369	343.113	331.280	319.454	307.635	295.825	284.023	272.230	260.445	248.670	236.905	225.151	213.407	201.674	189.954	178.247	456.184	456.184	456.184	456.184	456.184	456.184	456.184	456.184	456.184	456.184	456.184	456.184	456.184	456.184
	24 MPH	522.801	504.770	487.361	470.553	454.324	438.655	423.527	408.920	394.817	381.200	368.053	355.360	343.104	331.271	319.846	308.428	297.018	285.615	274.220	262.834	251.456	240.088	228.729	217.380	206.041	194.714	183.398	172.095	440.397	440.397	440.397	440.397	440.397	440.397	440.397	440.397	440.397	440.397	440.397	440.397	440.397	440.397
	25 MPH	504.757	**487.349**	**470.541**	**454.312**	**438.644**	**423.516**	**408.909**	**394.807**	**381.190**	**368.044**	**355.350**	**343.095**	**331.262**	**319.837**	**308.807**	**297.783**	**286.766**	**275.757**	**264.756**	**253.762**	**242.778**	**231.801**	**220.834**	**209.877**	**198.930**	**187.993**	**177.068**	**166.155**	425.157	**425.157**	**425.157**	**425.157**	**425.157**	**425.157**	**425.157**	**425.157**	**425.157**	**425.157**	**425.157**	**425.157**	**425.157**	**425.157**
	26 MPH	490.372	473.460	457.131	441.365	426.143	411.446	397.256	383.555	370.327	357.555	345.224	333.317	321.822	310.723	300.006	289.297	278.594	267.899	257.211	246.531	235.859	225.196	214.541	203.896	193.261	182.636	172.022	161.420	412.965	412.965	412.965	412.965	412.965	412.965	412.965	412.965	412.965	412.965	412.965	412.965	412.965	412.965
	27 MPH	476.398	459.967	444.104	428.787	413.999	399.721	385.935	372.625	359.774	347.366	335.385	323.819	312.650	301.868	291.457	281.052	270.655	260.264	249.881	239.505	229.137	218.778	208.427	198.085	187.753	177.431	167.120	156.820	401.123	401.123	401.123	401.123	401.123	401.123	401.123	401.123	401.123	401.123	401.123	401.123	401.123	401.123
	28 MPH	462.821	446.859	431.448	416.568	402.201	388.330	374.937	362.006	349.521	337.466	325.828	314.590	303.741	293.265	283.151	273.043	262.942	252.847	242.760	232.680	222.607	212.543	202.487	192.440	182.403	172.375	162.357	152.351	389.620	389.620	389.620	389.620	389.620	389.620	389.620	389.620	389.620	389.620	389.620	389.620	389.620	389.620
	29 MPH	449.632	434.125	419.152	404.696	390.739	377.263	364.252	351.689	339.560	327.849	316.542	305.625	295.085	284.908	275.082	265.262	255.448	245.641	235.841	226.049	216.264	206.486	196.717	186.956	177.205	167.462	157.730	148.009	378.447	378.447	378.447	378.447	378.447	378.447	378.447	378.447	378.447	378.447	378.447	378.447	378.447	378.447
	30 MPH	436.818	**421.753**	**407.207**	**393.163**	**379.604**	**366.512**	**353.871**	**341.667**	**329.883**	**318.506**	**307.521**	**296.915**	**286.675**	**276.788**	**267.242**	**257.702**	**248.168**	**238.641**	**229.120**	**219.607**	**210.100**	**200.602**	**191.111**	**181.628**	**172.155**	**162.690**	**153.235**	**143.791**	367.595	**367.595**	**367.595**	**367.595**	**367.595**	**367.595**	**367.595**	**367.595**	**367.595**	**367.595**	**367.595**	**367.595**	**367.595**	**367.595**
	31 MPH	427.872	413.115	398.867	385.111	371.829	359.005	346.624	334.669	323.127	311.983	301.223	290.834	280.804	271.119	261.769	252.424	243.086	233.754	224.428	215.109	205.797	196.493	187.197	177.908	168.629	159.358	150.097	140.846	360.137	360.137	360.137	360.137	360.137	360.137	360.137	360.137	360.137	360.137	360.137	360.137	360.137	360.137
	32 MPH	419.109	404.654	390.698	377.224	364.214	351.653	339.525	327.815	316.509	305.593	295.054	284.878	275.053	265.567	256.408	247.254	238.107	228.966	219.831	210.703	201.583	192.469	183.363	174.265	165.175	156.094	147.023	137.962	352.831	352.831	352.831	352.831	352.831	352.831	352.831	352.831	352.831	352.831	352.831	352.831	352.831	352.831
	33 MPH	410.525	396.367	382.697	369.498	356.754	344.451	332.571	321.101	310.027	299.334	289.011	279.043	269.420	260.128	251.156	242.190	233.231	224.277	215.329	206.388	197.454	188.527	179.607	170.696	161.792	152.897	144.012	135.136	345.673	345.673	345.673	345.673	345.673	345.673	345.673	345.673	345.673	345.673	345.673	345.673	345.673	345.673
	34 MPH	402.117	388.249	374.859	361.930	349.448	337.396	325.760	314.525	303.677	293.204	283.092	273.328	263.902	254.800	246.012	237.230	228.454	219.683	210.919	202.161	193.410	184.666	175.929	167.200	158.479	149.766	141.062	132.368	338.660	338.660	338.660	338.660	338.660	338.660	338.660	338.660	338.660	338.660	338.660	338.660	338.660	338.660
	35 MPH	393.881	**380.297**	**367.181**	**354.518**	**342.291**	**330.486**	**319.088**	**308.083**	**297.458**	**287.199**	**277.294**	**267.730**	**258.497**	**249.582**	**240.974**	**232.372**	**223.775**	**215.184**	**206.599**	**198.021**	**189.449**	**180.884**	**172.326**	**163.775**	**155.233**	**146.699**	**138.173**	**129.657**	331.790	**331.790**	**331.790**	**331.790**	**331.790**	**331.790**	**331.790**	**331.790**	**331.790**	**331.790**	**331.790**	**331.790**	**331.790**	**331.790**
	36 MPH	388.218	374.829	361.901	349.420	337.369	325.734	314.499	303.653	293.180	283.069	273.306	263.880	254.780	245.993	237.509	229.030	220.557	212.090	203.628	195.173	186.725	178.283	169.848	161.420	153.001	144.589	136.186	127.793	327.239	327.239	327.239	327.239	327.239	327.239	327.239	327.239	327.239	327.239	327.239	327.239	327.239	327.239
	37 MPH	382.635	369.439	356.697	344.395	332.518	321.050	309.977	299.286	288.964	278.998	269.376	260.086	251.116	242.455	234.093	225.737	217.385	209.040	200.700	192.367	184.039	175.719	167.405	159.099	150.800	142.510	134.228	125.955	322.750	322.750	322.750	322.750	322.750	322.750	322.750	322.750	322.750	322.750	322.750	322.750	322.750	322.750
	38 MPH	377.133	364.126	351.568	339.443	327.736	316.433	305.520	294.983	284.809	274.987	265.503	256.346	247.505	238.969	230.727	222.491	214.260	206.034	197.814	189.600	181.393	173.192	164.998	156.811	148.632	140.461	132.298	124.144	318.322	318.322	318.322	318.322	318.322	318.322	318.322	318.322	318.322	318.322	318.322	318.322	318.322	318.322
	39 MPH	371.710	358.890	346.512	334.562	323.023	311.883	301.126	290.741	280.714	271.032	261.685	252.660	243.946	235.532	227.409	219.291	211.179	203.071	194.970	186.874	178.785	170.702	162.625	154.556	146.495	138.441	130.395	122.359	313.956	313.956	313.956	313.956	313.956	313.956	313.956	313.956	313.956	313.956	313.956	313.956	313.956	313.956
	40 MPH	366.365	**353.729**	**341.530**	**329.751**	**318.378**	**307.398**	**296.796**	**286.560**	**276.677**	**267.135**	**257.922**	**249.026**	**240.438**	**232.146**	**224.139**	**216.138**	**208.142**	**200.151**	**192.166**	**184.187**	**176.214**	**168.247**	**160.287**	**152.334**	**144.388**	**136.450**	**128.520**	**120.599**	309.649	**309.649**	**309.649**	**309.649**	**309.649**	**309.649**	**309.649**	**309.649**	**309.649**	**309.649**	**309.649**	**309.649**	**309.649**	**309.649**
	41 MPH	363.887	351.337	339.220	327.521	316.225	305.319	294.789	284.622	274.806	265.329	256.178	247.343	238.812	230.576	222.624	214.676	206.734	198.798	190.867	182.941	175.022	167.109	159.203	151.304	143.412	135.527	127.651	119.784	307.399	307.399	307.399	307.399	307.399	307.399	307.399	307.399	307.399	307.399	307.399	307.399	307.399	307.399
	42 MPH	361.427	348.962	336.926	325.306	314.087	303.255	292.796	282.698	272.948	263.534	254.445	245.670	237.197	229.017	221.118	213.225	205.336	197.453	189.576	181.704	173.839	165.979	158.126	150.281	142.442	134.611	126.788	118.974	305.165	305.165	305.165	305.165	305.165	305.165	305.165	305.165	305.165	305.165	305.165	305.165	305.165	305.165
	43 MPH	358.983	346.602	334.648	323.107	311.963	301.204	290.816	280.786	271.102	261.752	252.725	244.009	235.593	227.468	219.623	211.783	203.948	196.118	188.294	180.476	172.663	164.857	157.057	149.264	141.479	133.701	125.931	118.169	302.947	302.947	302.947	302.947	302.947	302.947	302.947	302.947	302.947	302.947	302.947	302.947	302.947	302.947
	44 MPH	356.555	344.258	332.385	320.922	309.854	299.167	288.849	278.887	269.269	259.982	251.016	242.359	234.000	225.930	218.138	210.351	202.569	194.792	187.021	179.255	171.496	163.742	155.995	148.255	140.522	132.797	125.079	117.370	300.746	300.746	300.746	300.746	300.746	300.746	300.746	300.746	300.746	300.746	300.746	300.746	300.746	300.746
	45 MPH	354.144	**341.930**	**330.138**	**318.752**	**307.758**	**297.144**	**286.896**	**277.002**	**267.448**	**258.224**	**249.319**	**240.720**	**232.418**	**224.402**	**216.663**	**208.928**	**201.199**	**193.475**	**185.756**	**178.043**	**170.336**	**162.635**	**154.940**	**147.253**	**139.572**	**131.899**	**124.233**	**116.577**	298.561	**298.561**	**298.561**	**298.561**	**298.561**	**298.561**	**298.561**	**298.561**	**298.561**	**298.561**	**298.561**	**298.561**	**298.561**	**298.561**
	46 MPH	354.165	341.951	330.157	318.771	307.777	297.162	286.913	277.018	267.464	258.240	249.334	240.734	232.432	224.416	216.676	208.941	201.211	193.487	185.767	178.054	170.346	162.645	154.950	147.261	139.580	131.907	124.241	116.584	298.659	298.659	298.659	298.659	298.659	298.659	298.659	298.659	298.659	298.659	298.659	298.659	298.659	298.659
	47 MPH	354.187	341.971	330.177	318.790	307.795	297.180	286.931	277.035	267.480	258.255	249.349	240.749	232.446	224.429	216.689	208.954	201.223	193.498	185.779	178.065	170.356	162.655	154.959	147.270	139.589	131.915	124.248	116.591	298.757	298.757	298.757	298.757	298.757	298.757	298.757	298.757	298.757	298.757	298.757	298.757	298.757	298.757
	48 MPH	354.208	341.992	330.197	318.809	307.814	297.198	286.948	277.052	267.497	258.271	249.364	240.763	232.460	224.443	216.702	208.966	201.235	193.510	185.790	178.075	170.367	162.664	154.968	147.279	139.597	131.923	124.256	116.598	298.856	298.856	298.856	298.856	298.856	298.856	298.856	298.856	298.856	298.856	298.856	298.856	298.856	298.856
	49 MPH	354.229	342.013	330.217	318.828	307.833	297.216	286.965	277.068	267.513	258.287	249.379	240.778	232.474	224.456	216.715	208.979	201.247	193.521	185.801	178.086	170.377	162.674	154.978	147.288	139.606	131.930	124.263	116.605	298.954	298.954	298.954	298.954	298.954	298.954	298.954	298.954	298.954	298.954	298.954	298.954	298.954	298.954
	50 MPH	354.251	**342.033**	**330.237**	**318.848**	**307.851**	**297.234**	**286.983**	**277.085**	**267.529**	**258.302**	**249.394**	**240.792**	**232.488**	**224.470**	**216.728**	**208.991**	**201.260**	**193.533**	**185.812**	**178.097**	**170.387**	**162.684**	**154.987**	**147.297**	**139.614**	**131.938**	**124.271**	**116.612**	299.052	**299.052**	**299.052**	**299.052**	**299.052**	**299.052**	**299.052**	**299.052**	**299.052**	**299.052**	**299.052**	**299.052**	**299.052**	**299.052**
	51 MPH	357.575	345.243	333.336	321.840	310.740	300.023	289.676	279.685	270.040	260.726	251.734	243.052	234.670	226.576	218.762	210.953	203.148	195.349	187.556	179.768	171.986	164.211	156.442	148.679	140.924	133.177	125.437	117.706	301.727	301.727	301.727	301.727	301.727	301.727	301.727	301.727	301.727	301.727	301.727	301.727	301.727	301.727
	52 MPH	360.931	348.483	336.465	324.861	313.657	302.839	292.395	282.310	272.574	263.173	254.097	245.333	236.872	228.703	220.815	212.933	205.055	197.183	189.316	181.455	173.600	165.752	157.910	150.075	142.247	134.427	126.614	118.811	304.426	304.426	304.426	304.426	304.426	304.426	304.426	304.426	304.426	304.426	304.426	304.426	304.426	304.426
	53 MPH	364.319	351.754	339.622	327.909	316.600	305.681	295.139	284.960	275.132	265.643	256.481	247.636	239.095	230.849	222.888	214.931	206.979	199.033	191.093	183.158	175.230	167.307	159.392	151.483	143.582	135.688	127.803	119.926	307.148	307.148	307.148	307.148	307.148	307.148	307.148	307.148	307.148	307.148	307.148	307.148	307.148	307.148
	54 MPH	367.738	355.055	342.810	330.987	319.572	308.550	297.909	287.634	277.714	268.136	258.889	249.960	241.339	233.016	224.979	216.948	208.922	200.901	192.886	184.877	176.874	168.878	160.888	152.905	144.929	136.962	129.002	121.051	309.896	309.896	309.896	309.896	309.896	309.896	309.896	309.896	309.896	309.896	309.896	309.896	309.896	309.896
	55 MPH	371.189	**358.387**	**346.027**	**334.093**	**322.571**	**311.446**	**300.705**	**290.334**	**280.321**	**270.653**	**261.318**	**252.306**	**243.604**	**235.203**	**227.091**	**218.984**	**210.883**	**202.787**	**194.697**	**186.612**	**178.534**	**170.463**	**162.398**	**154.340**	**146.289**	**138.247**	**130.213**	**122.187**	312.667	**312.667**	**312.667**	**312.667**	**312.667**	**312.667**	**312.667**	**312.667**	**312.667**	**312.667**	**312.667**	**312.667**	**312.667**	**312.667**
	56 MPH	377.263	364.252	351.689	339.560	327.849	316.542	305.625	295.085	284.908	275.082	265.594	256.434	247.590	239.051	230.807	222.568	214.334	206.105	197.883	189.666	181.456	173.252	165.055	156.865	148.683	140.509	132.344	124.187	317.701	317.701	317.701	317.701	317.701	317.701	317.701	317.701	317.701	317.701	317.701	317.701	317.701	317.701
	57 MPH	383.437	370.212	357.444	345.117	333.214	321.722	310.626	299.913	289.570	279.583	269.941	260.631	251.642	242.963	234.584	226.210	217.841	209.478	201.121	192.770	184.425	176.087	167.756	159.432	151.116	142.808	134.509	126.219	322.816	322.816	322.816	322.816	322.816	322.816	322.816	322.816	322.816	322.816	322.816	322.816	322.816	322.816
	58 MPH	389.711	376.271	363.294	350.764	338.667	326.987	315.709	304.821	294.308	284.158	274.358	264.896	255.760	246.939	238.422	229.911	221.406	212.906	204.412	195.924	187.443	178.968	170.501	162.041	153.589	145.145	136.710	128.284	328.014	328.014	328.014	328.014	328.014	328.014	328.014	328.014	328.014	328.014	328.014	328.014	328.014	328.014
	59 MPH	396.088	382.428	369.238	356.504	344.209	332.337	320.876	309.809	299.124	288.808	278.847	269.230	259.945	250.980	242.324	233.673	225.029	216.390	207.757	199.130	190.510	181.897	173.291	164.693	156.102	147.520	138.947	130.384	333.295	333.295	333.295	333.295	333.295	333.295	333.295	333.295	333.295	333.295	333.295	333.295	333.295	333.295
	60 MPH	402.570	**388.686**	**375.280**	**362.338**	**349.841**	**337.776**	**326.126**	**314.879**	**304.019**	**293.534**	**283.410**	**273.636**	**264.199**	**255.087**	**246.289**	**237.497**	**228.711**	**219.931**	**211.156**	**202.389**	**193.628**	**184.874**	**176.127**	**167.388**	**158.657**	**149.934**	**141.221**	**132.517**	338.661	**338.661**	**338.661**	**338.661**	**338.661**	**338.661**	**338.661**	**338.661**	**338.661**	**338.661**	**338.661**	**338.661**	**338.661**	**338.661**
	61 MPH	411.857	397.653	383.938	370.697	357.912	345.568	333.650	322.143	311.033	300.306	289.948	279.949	270.294	260.972	251.971	242.976	233.987	225.004	216.028	207.058	198.095	189.139	180.190	171.249	162.317	153.393	144.479	135.574	346.624	346.624	346.624	346.624	346.624	346.624	346.624	346.624	346.624	346.624	346.624	346.624	346.624	346.624
	62 MPH	421.358	406.826	392.795	379.249	366.169	353.540	341.347	329.575	318.208	307.234	296.638	286.407	276.529	266.992	257.784	248.582	239.385	230.195	221.011	211.834	202.665	193.502	184.347	175.200	166.062	156.932	147.812	138.702	354.775	354.775	354.775	354.775	354.775	354.775	354.775	354.775	354.775	354.775	354.775	354.775	354.775	354.775
	63 MPH	431.079	416.212	401.857	387.998	374.616	361.696	349.222	337.178	325.549	314.321	303.481	293.014	282.909	273.152	263.731	254.316	244.908	235.506	226.110	216.721	207.340	197.966	188.600	179.242	169.893	160.553	151.222	141.902	363.118	363.118	363.118	363.118	363.118	363.118	363.118	363.118	363.118	363.118	363.118	363.118	363.118	363.118
	64 MPH	441.024	425.814	411.128	396.949	383.259	370.041	357.278	344.956	333.059	321.573	310.482	299.774	289.435	279.453	269.815	260.183	250.558	240.939	231.326	221.721	212.123	202.533	192.951	183.377	173.812	164.256	154.711	145.176	371.656	371.656	371.656	371.656	371.656	371.656	371.656	371.656	371.656	371.656	371.656	371.656	371.656	371.656
	65 MPH	451.198	**435.637**	**420.613**	**406.106**	**392.100**	**378.577**	**365.521**	**352.914**	**340.743**	**328.991**	**317.645**	**306.690**	**296.113**	**285.900**	**276.040**	**266.186**	**256.338**	**246.497**	**236.663**	**226.836**	**217.017**	**207.205**	**197.402**	**187.607**	**177.822**	**168.046**	**158.280**	**148.525**	380.396	**380.396**	**380.396**	**380.396**	**380.396**	**380.396**	**380.396**	**380.396**	**380.396**	**380.396**	**380.396**	**380.396**	**380.396**	**380.396**
	66 MPH	457.630	441.847	426.608	411.895	397.689	383.974	370.731	357.945	345.600	333.681	322.173	311.061	300.333	289.975	279.975	269.980	259.992	250.011	240.037	230.070	220.110	210.159	200.216	190.282	180.357	170.441	160.536	150.642	386.239	386.239	386.239	386.239	386.239	386.239	386.239	386.239	386.239	386.239	386.239	386.239	386.239	386.239

67 MPH	465.798	449.734	434.223	419.247	404.788	390.828	377.348	364.334	351.769	339.637	327.923	316.614	305.694	295.151	284.972	274.799	264.633	254.473	244.321	234.176	224.039	213.910	203.790	193.678	183.576	173.484	163.402	153.331	393.670	393.670	393.670	393.670	393.670	393.670	393.670	393.670	393.670	393.670	393.670	393.670	393.670	393.670
68 MPH	476.917	460.469	444.588	429.255	414.450	400.157	386.356	373.031	360.166	347.744	335.751	324.171	312.991	302.197	291.774	281.359	270.950	260.548	250.153	239.766	229.387	219.016	208.654	198.301	187.958	177.625	167.302	156.991	403.801	403.801	403.801	403.801	403.801	403.801	403.801	403.801	403.801	403.801	403.801	403.801	403.801	403.801
69 MPH	494.095	477.054	460.601	444.716	429.378	414.569	400.272	386.467	373.138	360.269	347.844	335.847	324.265	313.081	302.283	291.493	280.709	269.932	259.163	248.402	237.649	226.905	216.170	205.444	194.728	184.022	173.328	162.645	419.487	419.487	419.487	419.487	419.487	419.487	419.487	419.487	419.487	419.487	419.487	419.487	419.487	419.487
70 MPH	484.286	467.584	451.457	435.887	420.854	406.340	392.326	378.795	365.731	353.117	340.939	329.180	317.827	306.866	296.283	285.706	275.136	264.574	254.018	243.471	232.931	222.400	211.878	201.365	190.862	180.369	169.887	159.416	410.525	410.525	410.525	410.525	410.525	410.525	410.525	410.525	410.525	410.525	410.525	410.525	410.525	410.525

Bus Emissions

Note: Auto emissions factors are based on California Air Resources Board's EMFAC2021 Mobile Emissions Inventory for 2022 and 2050

NOx Emissions NOx Gasoline

5 MPH	0.124	0.120	0.116	0.112	0.108	0.104	0.100	0.097	0.094	0.090	0.087	0.084	0.081	0.079	0.076	0.073	0.070	0.068	0.065	0.062	0.060	0.057	0.054	0.052	0.049	0.046	0.043	0.041	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
6 MPH	0.129	0.125	0.120	0.116	0.112	0.108	0.105	0.101	0.098	0.094	0.091	0.088	0.085	0.082	0.079	0.076	0.073	0.071	0.068	0.065	0.062	0.059	0.057	0.054	0.051	0.048	0.045	0.043	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
7 MPH	0.135	0.130	0.126	0.121	0.117	0.113	0.109	0.105	0.102	0.098	0.095	0.092	0.088	0.085	0.082	0.079	0.077	0.074	0.071	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.047	0.044	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
8 MPH	0.140	0.136	0.131	0.126	0.122	0.118	0.114	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.071	0.068	0.064	0.061	0.058	0.055	0.052	0.049	0.046	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
9 MPH	0.146	0.141	0.136	0.132	0.127	0.123	0.119	0.114	0.110	0.107	0.103	0.099	0.096	0.093	0.090	0.086	0.083	0.080	0.077	0.074	0.070	0.067	0.064	0.061	0.058	0.054	0.051	0.048	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
10 MPH	0.153	0.147	0.142	0.137	0.133	0.128	0.124	0.119	0.115	0.111	0.107	0.104	0.100	0.097	0.093	0.090	0.087	0.083	0.080	0.077	0.073	0.070	0.067	0.063	0.060	0.057	0.054	0.050	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
11 MPH	0.147	0.142	0.137	0.132	0.128	0.123	0.119	0.115	0.111	0.107	0.103	0.100	0.096	0.093	0.090	0.087	0.083	0.080	0.077	0.074	0.071	0.067	0.064	0.061	0.058	0.055	0.051	0.048	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
12 MPH	0.141	0.136	0.132	0.127	0.123	0.119	0.114	0.110	0.107	0.103	0.099	0.096	0.093	0.090	0.086	0.083	0.080	0.077	0.074	0.071	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.046	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
13 MPH	0.136	0.131	0.127	0.122	0.118	0.114	0.110	0.106	0.103	0.099	0.096	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.071	0.068	0.065	0.062	0.059	0.057	0.054	0.051	0.048	0.045	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
14 MPH	0.131	0.126	0.122	0.118	0.114	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.071	0.069	0.066	0.063	0.060	0.057	0.054	0.052	0.049	0.046	0.043	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
15 MPH	0.126	0.122	0.117	0.113	0.109	0.106	0.102	0.098	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.072	0.069	0.066	0.063	0.061	0.058	0.055	0.052	0.050	0.047	0.044	0.041	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
16 MPH	0.141	0.136	0.131	0.127	0.123	0.118	0.114	0.110	0.107	0.103	0.099	0.096	0.093	0.089	0.086	0.083	0.080	0.077	0.074	0.071	0.068	0.065	0.062	0.059	0.056	0.053	0.049	0.046	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
17 MPH	0.158	0.153	0.147	0.142	0.137	0.133	0.128	0.124	0.119	0.115	0.111	0.107	0.104	0.100	0.097	0.093	0.090	0.086	0.083	0.079	0.076	0.073	0.069	0.066	0.062	0.059	0.055	0.052	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
18 MPH	0.177	0.171	0.165	0.159	0.154	0.149	0.143	0.139	0.134	0.129	0.125	0.120	0.116	0.112	0.108	0.104	0.101	0.097	0.093	0.089	0.085	0.081	0.077	0.074	0.070	0.066	0.062	0.058	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
19 MPH	0.198	0.192	0.185	0.179	0.172	0.166	0.161	0.155	0.150	0.145	0.140	0.135	0.130	0.126	0.121	0.117	0.113	0.108	0.104	0.100	0.095	0.091	0.087	0.082	0.078	0.074	0.070	0.065	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
20 MPH	0.222	0.215	0.207	0.200	0.193	0.187	0.180	0.174	0.168	0.162	0.156	0.151	0.146	0.141	0.136	0.131	0.126	0.121	0.117	0.112	0.107	0.102	0.097	0.092	0.088	0.083	0.078	0.073	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
21 MPH	0.193	0.187	0.180	0.174	0.168	0.162	0.157	0.151	0.146	0.141	0.136	0.131	0.127	0.122	0.118	0.114	0.110	0.106	0.101	0.097	0.093	0.089	0.085	0.080	0.076	0.072	0.068	0.064	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
22 MPH	0.168	0.162	0.157	0.151	0.146	0.141	0.136	0.131	0.127	0.123	0.118	0.114	0.110	0.106	0.103	0.099	0.095	0.092	0.088	0.084	0.081	0.077	0.074	0.070	0.066	0.063	0.059	0.055	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
23 MPH	0.146	0.141	0.136	0.131	0.127	0.123	0.118	0.114	0.110	0.106	0.103	0.099	0.096	0.093	0.089	0.086	0.083	0.080	0.077	0.073	0.070	0.067	0.064	0.061	0.058	0.054	0.051	0.048	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
24 MPH	0.127	0.123	0.118	0.114	0.110	0.107	0.103	0.099	0.096	0.093	0.089	0.086	0.083	0.080	0.078	0.075	0.072	0.069	0.067	0.064	0.061	0.058	0.056	0.053	0.050	0.047	0.045	0.042	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
25 MPH	0.110	0.107	0.103	0.099	0.096	0.093	0.089	0.086	0.083	0.080	0.078	0.075	0.072	0.070	0.068	0.065	0.063	0.060	0.058	0.055	0.053	0.051	0.048	0.046	0.044	0.041	0.039	0.036	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
26 MPH	0.113	0.109	0.105	0.101	0.098	0.094	0.091	0.088	0.085	0.082	0.079	0.077	0.074	0.071	0.069	0.066	0.064	0.061	0.059	0.057	0.054	0.052	0.049	0.047	0.044	0.042	0.039	0.037	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
27 MPH	0.115	0.111	0.107	0.103	0.100	0.096	0.093	0.090	0.087	0.084	0.081	0.078	0.075	0.073	0.070	0.068	0.065	0.063	0.060	0.058	0.055	0.053	0.050	0.048	0.045	0.043	0.040	0.038	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
28 MPH	0.117	0.113	0.109	0.105	0.102	0.098	0.095	0.092	0.088	0.085	0.082	0.080	0.077	0.074	0.072	0.069	0.066	0.064	0.061	0.059	0.056	0.054	0.051	0.049	0.046	0.044	0.041	0.039	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
29 MPH	0.119	0.115	0.111	0.107	0.104	0.100	0.097	0.093	0.090	0.087	0.084	0.081	0.078	0.076	0.073	0.070	0.068	0.065	0.063	0.060	0.057	0.055	0.052	0.050	0.047	0.044	0.042	0.039	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
30 MPH	0.122	0.117	0.113	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.072	0.069	0.066	0.064	0.061	0.059	0.056	0.053	0.051	0.048	0.045	0.043	0.040	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
31 MPH	0.126	0.122	0.118	0.114	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.072	0.069	0.066	0.063	0.061	0.058	0.055	0.052	0.050	0.047	0.044	0.042	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
32 MPH	0.131	0.126	0.122	0.118	0.114	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.071	0.069	0.066	0.063	0.060	0.057	0.054	0.052	0.049	0.046	0.043	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
33 MPH	0.136	0.131	0.127	0.122	0.118	0.114	0.110	0.106	0.102	0.099	0.096	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.071	0.068	0.065	0.062	0.059	0.056	0.053	0.051	0.048	0.045	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
34 MPH	0.141	0.136	0.131	0.127	0.122	0.118	0.114	0.110	0.106	0.103	0.099	0.096	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.071	0.068	0.065	0.062	0.059	0.055	0.052	0.049	0.046	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
35 MPH	0.146	0.141	0.136	0.131	0.127	0.122	0.118	0.114	0.110	0.106	0.103	0.099	0.096	0.092	0.089	0.086	0.083	0.080	0.077	0.073	0.070	0.067	0.064	0.061	0.058	0.054	0.051	0.048	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
36 MPH	0.146	0.141	0.136	0.131	0.127	0.122	0.118	0.114	0.110	0.106	0.103	0.099	0.096	0.092	0.089	0.086	0.083	0.080	0.077	0.073	0.070	0.067	0.064	0.061	0.057	0.054	0.051	0.048	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
37 MPH	0.146	0.141	0.136	0.131	0.127	0.122	0.118	0.114	0.110	0.106	0.103	0.099	0.096	0.092	0.089	0.086	0.083	0.080	0.076	0.073	0.070	0.067	0.064	0.061	0.057	0.054	0.051	0.048	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
38 MPH	0.146	0.141	0.136	0.131	0.127	0.122	0.118	0.114	0.110	0.106	0.103	0.099	0.096	0.092	0.089	0.086	0.083	0.080	0.076	0.073	0.070	0.067	0.064	0.061	0.057	0.054	0.051	0.048	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
39 MPH	0.145	0.140	0.136	0.131	0.126	0.122	0.118	0.114	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.079	0.076	0.073	0.070	0.067	0.064	0.060	0.057	0.054	0.051	0.048	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
40 MPH	0.145	0.140	0.136	0.131	0.126	0.122	0.118	0.114	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.079	0.076	0.073	0.070	0.067	0.064	0.060	0.057	0.054	0.051	0.048	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
41 MPH	0.140	0.135	0.131	0.126	0.122	0.118	0.114	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.071	0.067	0.064	0.061	0.058	0.055	0.052	0.049	0.046	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
42 MPH	0.135	0.131	0.126	0.122	0.118	0.114	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.071	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.047	0.045	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
43 MPH	0.131	0.126	0.122	0.118	0.114	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.071	0.069	0.066	0.063	0.060	0.057	0.054	0.051	0.049	0.046	0.043	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
44 MPH	0.126	0.122	0.118	0.113	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.072	0.069	0.066	0.063	0.061	0.058	0.055	0.052	0.050	0.047	0.044	0.042	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
45 MPH	0.122	0.117	0.113	0.110	0.106	0.102	0.099	0.095	0.092	0.089	0.086	0.083	0.080	0.077	0.074	0.072	0.069	0.066	0.064	0.061	0.059	0.056	0.053	0.051	0.048	0.045	0.043	0.040	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
46 MPH	0.111	0.107	0.103	0.100	0.096	0.093	0.090	0.086	0.083	0.081	0.078	0.075	0.073	0.070	0.068	0.065	0.063	0.060	0.058	0.056	0.053	0.051	0.048	0.046	0.044	0.041	0.039	0.036	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
47 MPH	0.100	0.097	0.094	0.090	0.087	0.084	0.081	0.079	0.076	0.073	0.071	0.068	0.066	0.064	0.061	0.059	0.057	0.055	0.053	0.050	0.048	0.046	0.044	0.042	0.040	0.037	0.035	0.033	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
48 MPH	0.091	0.088	0.085	0.082	0.079	0.077	0.074	0.071	0.069	0.067	0.064	0.062	0.060	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.044	0.042	0.040	0.038	0.036	0.034	0.032	0.030	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
49 MPH	0.083	0.080	0.077	0.075	0.072	0.070	0.067	0.065	0.063	0.060	0.058	0.056	0.054	0.053	0.051	0.049	0.047	0.045	0.043	0.042	0.040	0.038	0.036	0.034	0.033	0.031	0.029	0.027	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
50 MPH	0.075	0.073	0.070	0.068	0.065	0.063	0.061	0.059	0.057	0.055	0.053	0.051	0.049	0.048	0.046	0.044	0.043	0.041	0.040	0.038	0.036	0.035	0.033	0.031	0.030	0.028	0.026	0.025	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
51 MPH	0.078	0.075	0.072	0.070	0.067	0.065	0.063	0.061	0.059	0.057	0.055	0.053	0.051	0.049	0.047	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.034	0.032	0.031	0.029	0.027	0.026	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
52 MPH	0.080	0.077	0.075	0.072	0.069	0.067	0.065	0.063	0.060	0.058	0.056	0.054	0.052	0.051	0.049	0.047	0.045	0.044	0.042	0.040	0.038	0.037	0.035	0.033	0.032	0.030	0.028	0.026	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
53 MPH	0.082	0.079	0.077	0.074	0.072	0.069	0.067	0.064	0.062	0.060	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.045	0.043	0.041	0.040	0.038	0.036	0.034	0.032	0.031	0.029	0.027	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
54 MPH	0.085	0.082	0.079	0.076	0.074	0.071	0.069	0.066	0.064	0.062	0.060	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.044	0.043	0.041	0.039	0.037	0.035	0.033	0.032	0.030	0.028	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
55 MPH	0.087	0.084	0.081	0.079	0.076	0.073	0.071	0.068	0.066	0.064	0.061	0.059	0.057	0.055	0.053	0.052	0.050	0.048	0.046	0.044	0.042	0.040	0.038	0.036	0.034	0.033	0.031	0.029	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
56 MPH	0.089	0.086	0.083	0.080	0.077	0.075	0.072	0.070	0.067	0.065	0.063	0.060	0.058	0.056	0.054	0.053	0.051	0.049	0.047	0.045	0.043	0.041	0.039	0.037	0.035	0.033	0.031	0.029	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
57 MPH	0.091	0.088	0.085	0.082	0.079	0.076	0.073	0.071	0.068	0.066	0.064	0.062	0.059	0.057	0.055	0.053	0.052	0.050	0.048	0.046	0.044	0.042	0.040	0.038	0.036	0.034	0.032	0.030	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
58 MPH	0.092	0.089	0.086	0.083	0.080	0.077	0.075	0.072	0.070	0.067	0.065	0.063	0.061	0.059	0.057	0.054	0.052	0.050	0.048	0.046	0.044	0.042	0.040	0.038	0.036	0.034	0.032	0.030	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
59 MPH	0.094	0.091	0.088	0.085	0.082	0.079	0.076	0.074	0.071	0.069	0.066	0.064	0.062	0.060	0.058	0.056	0.053	0.051	0.049	0.047	0.045	0.043	0.041	0.039	0.037	0.035	0.033	0.031	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
60 MPH	0.096	0.093	0.089	0.086	0.083	0.080	0.078	0.075	0.072	0.070	0.067	0.065	0.063	0.061	0.059	0.057	0.054	0.052	0.050	0.048	0.046	0.044	0.042	0.040	0.038	0.036	0.034	0.032	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
61 MPH	0.096	0.093	0.090	0.087	0.084	0.081	0.078	0.075	0.073	0.070	0.068	0.065	0.063	0.061	0.059	0.057	0.055	0.053	0.050	0.048	0.046	0.044	0.042	0.040	0.038	0.036	0.034	0.032	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
62 MPH	0.097	0.093	0.090	0.087	0.084	0.081	0.078	0.076	0.073	0.070	0.068	0.066	0.063	0.061	0.059	0.057	0.055	0.053	0.051	0.049	0.046	0.044	0.042	0.040	0.038	0.036	0.034	0.032	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
63 MPH	0.097	0.094	0.090	0.087	0.084	0.081	0.079	0.076	0.073	0.071	0.068	0.066	0.064	0.061	0.059	0.057	0.055	0.053	0.051	0.049	0.047	0.045	0.042	0.040	0.038	0.036	0.034	0.032	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
64 MPH	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.076	0.074	0.071	0.069	0.066	0.064	0.062	0.060	0.057	0.055	0.053	0.051	0.049	0.047	0.045	0.043	0.040	0.038	0.036	0.034	0.032	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
65 MPH	0.098	0.094	0.091	0.088	0.085	0.082	0.079	0.076	0.074	0.071	0.069	0.066	0.064	0.062	0.060	0.058	0.056	0.053	0.051	0.049	0.047	0.045	0.043	0.041	0.039	0.036	0.034	0.032	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
66 MPH	0.092	0.089	0.086	0.083	0.080	0.077	0.075	0.072	0.070	0.067	0.065	0.063	0.060	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.044	0.042	0.040	0.038	0.036	0.034	0.032	0.030	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
67 MPH	0.085	0.082	0.080	0.077	0.074	0.072	0.069	0.067	0.064	0.062	0.060	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.034	0.032	0.030	0.028	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
68 MPH	0.077	0.075	0.072	0.070	0.067	0.065	0.063	0.060	0.058	0.056	0.054	0.053	0.051	0.049	0.047	0.046	0.044	0.042	0.041	0.039	0.037	0.035	0.034	0.032	0.030	0.029	0.027	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
69 MPH	0.066	0.064	0.062	0.060	0.058	0.056	0.054	0.052	0.050	0.048	0.047	0.045	0.044	0.042	0.041	0.039	0.038	0.036	0.035	0.033	0.032	0.031	0.029	0.028	0.026	0.025	0.023	0.022	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
70 MPH	0.072	0.070	0.067	0.065	0.063	0.061	0.059	0.057	0.055	0.053	0.051	0.049	0.048	0.046	0.044	0.043	0.041	0.040	0.038	0.036	0.035	0.033	0.032	0.030	0.029	0.027	0.025	0.024	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026

PM2.5 Emissions PM2.5

5 MPH	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
6 MPH	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
7 MPH	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
8 MPH	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
9 MPH	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
10 MPH	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
11 MPH	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
12 MPH	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
13 MPH	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
14 MPH	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
15 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
16 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
17 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
18 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
19 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
20 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
21 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
22 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
23 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
24 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
25 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
26 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
27 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
28 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
29 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
30 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
31 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
32 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
33 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
34 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
35 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
36 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
37 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
38 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
39 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
40 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
41 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
42 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
43 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
44 MPH	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
45 MPH	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
46 MPH	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
47 MPH	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
48 MPH	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
49 MPH	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
50 MPH	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
51 MPH	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
52 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
53 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
54 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
55 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
56 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
57 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
58 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
59 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
60 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
61 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
62 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
63 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
64 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
65 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
66 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
67 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
68 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
69 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
70 MPH	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026

SOx Emissions SOx

5 MPH	0.021	0.021	0.020	0.019	0.019	0.018	0.017	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.010	0.010	0.009	0.009	0.008	0.008	0.007	0.007	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
6 MPH	0.021	0.020	0.020	0.019	0.018	0.018	0.017	0.017	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.013	0.012	0.012	0.011	0.011	0.010	0.010	0.009	0.009	0.008	0.008	0.007	0.007	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
7 MPH	0.021	0.020	0.020	0.019	0.018	0.018	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.009	0.009	0.008	0.008	0.007	0.007	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
8 MPH	0.021	0.020	0.020	0.019	0.018	0.018	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.009	0.009	0.008	0.008	0.007	0.007	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
9 MPH	0.021	0.020	0.019	0.019	0.018	0.017	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.007	0.007	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013

10	10 MPH	0.021	0.020	0.019	0.019	0.018	0.017	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
11	11 MPH	0.020	0.019	0.019	0.018	0.017	0.017	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.007	0.007	0.007	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
12	12 MPH	0.019	0.018	0.018	0.017	0.017	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.013	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.006	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
13	13 MPH	0.018	0.018	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.006	0.006	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
14	14 MPH	0.018	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.006	0.006	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
15	15 MPH	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.006	0.006	0.006	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
16	16 MPH	0.017	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
17	17 MPH	0.018	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.007	0.006	0.006	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
18	18 MPH	0.018	0.017	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.006	0.006	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
19	19 MPH	0.019	0.018	0.017	0.017	0.016	0.016	0.015	0.014	0.014	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
20	20 MPH	0.019	0.018	0.018	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.007	0.007	0.007	0.006	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
21	21 MPH	0.017	0.017	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.006	0.006	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
22	22 MPH	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
23	23 MPH	0.015	0.014	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
24	24 MPH	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
25	25 MPH	0.013	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
26	26 MPH	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
27	27 MPH	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
28	28 MPH	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
29	29 MPH	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
30	30 MPH	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
31	31 MPH	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
32	32 MPH	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
33	33 MPH	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
34	34 MPH	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
35	35 MPH	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
36	36 MPH	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
37	37 MPH	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
38	38 MPH	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
39	39 MPH	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
40	40 MPH	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
41	41 MPH	0.012	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
42	42 MPH	0.011	0.011	0.011	0.010	0.010	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
43	43 MPH	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
44	44 MPH	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
45	45 MPH	0.011	0.010	0.010	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
46	46 MPH	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
47	47 MPH	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
48	48 MPH	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
49	49 MPH	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
50	50 MPH	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
51	51 MPH	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
52	52 MPH	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
53	53 MPH	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
54	54 MPH	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
55	55 MPH	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
56	56 MPH	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
57	57 MPH	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
58	58 MPH	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
59	59 MPH	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
60	60 MPH	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
61	61 MPH	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
62	62 MPH	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
63	63 MPH	0.009	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
64	64 MPH	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
65	65 MPH	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
66	66 MPH	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
67	67 MPH	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
68	68 MPH	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
69	69 MPH	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
70	70 MPH	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006

CO2 Emissions CO2

5	5 MPH	2,162.05	2,087.48	2,015.49	1,945.98	1,878.86	1,814.07	1,751.50	1,691.09	1,632.77	1,576.46	1,522.09	1,469.60	1,418.91	1,369.97	1,322.73	1,275.51	1,228.32	1,181.16	1,134.04	1,086.95	1,039.90	992.89	945.91	898.98	852.09	805.24	758.45	711.70	1,448.39	1,448.39	1,448.39	1,448.39	1,448.39	1,448.39	1,448.39	1,448.39	1,448.39	1,448.39	1,448.39	1,448.39	1,448.39	1,448.39
6	6 MPH	2147.554	2073.488	2001.976	1932.931	1866.267	1801.903	1739.758	1679.756	1621.824	1565.889	1511.884	1459.742	1409.397	1360.789	1313.858	1266.956	1220.084	1173.244	1126.438	1079.665	1032.928	986.229	939.569	892.949	846.373	799.842	753.360	706.928	1407.047	1407.047	1407.047	1407.047	1407.047	1407.047	1407.047	1407.047	1407.047	1407.047	1407.047	1407.047	1407.047	1407.047
7	7 MPH	2133.155	2059.585	1988.553	1919.971	1853.754	1789.821	1728.093	1668.493	1610.950	1555.390	1501.747	1449.954	1399.948	1351.665	1305.049	1258.461	1211.904	1165.378	1118.885	1072.426	1026.003	979.616	933.269	886.962	840.698	794.480	748.309	702.188	1366.882	1366.882	1366.882	1366.882	1366.882	1366.882	1366.882	1366.882	1366.882	1366.882	1366.882	1366.882	1366.882	1366.882
8	8 MPH	2118.852	2045.776	1975.220	1907.098	1841.325	1777.820	1716.506	1657.306	1600.148	1544.962	1491.678	1440.233	1390.561	1342.603	1296.298	1250.023	1203.778	1157.564	1111.383	1065.236	1019.124	973.048	927.012	881.015	835.062	789.153	743.291	697.480	1327.865	1327.865	1327.865	1327.865	1327.865	1327.865	1327.865	1327.865	1327.865	1327.865	1327.865	1327.865	1327.865	1327.865
9	9 MPH	2104.645	2032.059	1961.977	1894.311	1828.979	1765.900	1704.997	1646.194	1589.420	1534.603	1481.677	1430.576	1381.238	1333.601	1287.607	1241.642	1195.707	1149.803	1103.931	1058.093	1012.290	966.524	920.796	875.108	829.463	783.862	738.308	692.804	1289.961	1289.961	1289.961	1289.961	1289.961	1289.961	1289.961	1289.961	1289.961	1289.961	1289.961	1289.961	1289.961	1289.961
10	10 MPH	2,090.53	2,018.43	1,948.82	1,881.61	1,816.72	1,754.06	1,693.57	1,635.16	1,578.76	1,524.31	1,471.74	1,420.98	1,371.98	1,324.66	1,278.97	1,233.32	1,187.69	1,142.09	1,096.53	1,051.00	1,005.50	960.04	914.62	869.24	823.90	778.61	733.36	688.16	1,253.14	1,253.14	1,253.14	1,253.14	1,253.14	1,253.14	1,253.14	1,253.14	1,253.14	1,253.14	1,253.14	1,253.14	1,253.14	1,253.14
11	11 MPH	2007.847	1938.599	1871.740	1807.187	1744.859	1684.682	1626.580	1570.481	1516.318	1464.022	1413.530	1364.780	1317.711	1272.265	1228.386	1184.535	1140.713	1096.920	1053.159	1009.429	965.732	922.071	878.446	834.860	791.313	747.810	704.351	660.940	1216.205	1216.205	1216.205	1216.205	1216.205	1216.205	1216.205	1216.205	1216.205	1216.205	1216.205	1216.205	1216.205	1216.205
12	12 MPH	1928.431	1861.922	1797.707	1735.707	1675.845	1618.048	1562.244	1508.364	1456.343	1406.116	1357.621	1310.799	1265.591	1221.943	1179.800	1137.684	1095.594	1053.534	1011.503	969.503	927.535	885.600	843.701	801.838	760.015	718.232	676.492	634.798	1180.359	1180.359	1180.359	1180.359	1180.359	1180.359	1180.359	1180.359	1180.359	1180.359	1180.359	1180.359	1180.359	1180.359
13	13 MPH	1852.156	1788.277	1726.602	1667.055	1609.560	1554.049	1500.452	1448.704	1398.740	1350.500	1303.923	1258.953	1215.533	1173.611	1133.135	1092.685	1052.260	1011.864	971.495	931.156	890.848	850.572	810.330	770.123	729.954	689.823	649.734	609.690	1145.570	1145.570	1145.570	1145.570	1145.570	1145.570	1145.570	1145.570	1145.570	1145.570	1145.570	1145.570	1145.570	1145.570
14	14 MPH	1778.897	1717.546	1658.310	1601.118	1545.897	1492.582	1441.105	1391.403	1343.416	1297.084	1252.349	1209.157	1167.455	1127.192	1088.316	1049.466	1010.640	971.841	933.070	894.326	855.612	816.930	778.279	739.663	701.082	662.539	624.036	585.575	1111.807	1111.807	1111.807	1111.807	1111.807	1111.807	1111.807	1111.807	1111.807	1111.807	1111.807	1111.807	1111.807	1111.807
15	15 MPH	1,708.54	1,649.61	1,592.72	1,537.79	1,484.75	1,433.55	1,384.10	1,336.37	1,290.28	1,245.78	1,202.81	1,161.33	1,121.28	1,082.61	1,045.27	1,007.96	970.67	933.40	896.16	858.95	821.77	784.62	747.50	710.41	673.35	636.33	599.35	562.41	1,079.04	1,079.04	1,079.04	1,079.04	1,079.04	1,079.04	1,079.04	1,079.04	1,079.04	1,079.04	1,079.04	1,079.04	1,079.04	1,079.04
16	16 MPH	1748.377	1688.078	1629.859	1573.648	1519.375	1466.974	1416.380	1367.532	1320.367	1274.830	1230.863	1188.412	1147.426	1107.853	1069.645	1031.460	993.301	955.168	917.061	878.982	840.933	802.914	764.926	726.973	689.054	651.172	613.329	575.528	1046.550	1046.550	1046.550	1046.550	1046.550	1046.550	1046.550	1046.550	1046.550	1046.550	1046.550	1046.550	1046.550	1046.550
17	17 MPH	1789.147	1727.442	1667.865	1610.343	1554.805	1501.182	1449.408	1399.421	1351.157	1304.557	1259.565	1216.125	1174.182	1133.686	1094.587	1055.513	1016.464	977.441	938.446	899.479	860.542	821.637	782.764	743.925	705.121	666.356	627.631	588.949	1015.041	1015.041	1015.041	1015.041	1015.041	1015.041	1015.041	1015.041	1015.041	1015.041	1015.041	1015.041	1015.041	1015.041
18	18 MPH	1830.868	1767.724	1706.758	1647.894	1591.061	1536.188	1483.207	1432.053	1382.664	1334.978	1288.936	1244.483	1201.563	1160.123	1120.112	1080.126	1040.166	1000.234	960.329	920.454	880.609	840.796	801.017	761.272	721.564	681.895	642.267	602.682	984.480	984.480	984.480	984.480	984.480	984.480	984.480	984.480	984.480	984.480	984.480	984.480	984.480	984.480
19	19 MPH	1873.561	1808.945	1746.557	1686.321	1628.162	1572.009	1517.793	1465.447	1414.906	1366.108	1318.993	1273.503	1229.581	1187.175	1146.231	1105.313	1064.422	1023.558	982.723	941.918	901.144	860.402	819.695	779.024	738.390	697.796	657.244	616.736	954.839	954.839	954.839	954.839	954.839	954.839	954.839	954.839	954.839	954.839	954.839	954.839	954.839	954.839
20	20 MPH	1,917.25	1,851.13	1,787.28	1,725.64	1,666.13	1,608.67	1,553.19	1,499.62	1,447.90	1,397.96	1,349.75	1,303.20	1,258.25	1,214.86	1,172.96	1,131.09	1,089.24	1,047.43	1,005.64	963.88	922.16	880.47	838.81	797.19	755.61	714.07	672.57	631.12	926.09	926.09	926.09	926.09	926.09	926.09	926.09	926.09	926.09	926.09	926.09	926.09	926.09	926.09
21	21 MPH	1768.236	1707.252	1648.371	1591.522	1536.632	1483.636	1432.468	1383.064	1335.364	1289.310	1244.843	1201.911	1160.459	1120.436	1081.794	1043.176	1004.583	966.017	927.477	888.966	850.484	812.033	773.615	735.230	696.880	658.568	620.295	582.065	898.091	898.091	898.091	898.091	898.091	898.091	898.091	898.091	898.091	898.091	898.091	898.091	898.091	898.091
22	22 MPH	1630.803	1574.559	1520.255	1467.824	1417.201	1368.324	1321.132	1275.568	1231.576	1189.101	1148.091	1108.495	1070.264	1033.353	997.714	962.097	926.504	890.935	855.391	819.873	784.382	748.920	713.487	678.085	642.717	607.382	572.084	536.825	870.938	870.938	870.938	870.938	870.938	870.938	870.938	870.938	870.938	870.938	870.938	870.938	870.938	870.938
23	23 MPH	1504.053	1452.180	1402.097	1353.740	1307.052	1261.974	1218.450	1176.428	1135.854	1096.680	1058.858	1022.339	987.080	953.037	920.169	887.320	854.494	821.689	788.908	756.150	723.418	690.712	658.033	625.383	592.763	560.175	527.620	495.102	844.606	844.606	844.606	844.606	844.606	844.606	844.606	844.606	844.606	844.606	844.606	844.606	844.606	844.606
24	24 MPH	1387.153	1339.312	1293.122	1248.524	1205.464	1163.889	1123.749	1084.992	1047.572	1011.443	976.560	942.880	910.362	878.965	848.650	818.355	788.080	757.825	727.591	697.380	667.192	637.028	606.889	576.776	546.692	516.636	486.612	456.621	819.070	819.070	819.070	819.070	819.070	819.070	819.070	819.070	819.070	819.070	819.070	819.070	819.070	819.070
25	25 MPH	1,279.34	1,235.22	1,192.62	1,151.48	1,111.77	1,073.43	1,036.41	1,000.66	966.15	932.83	900.66	869.60	839.61	810.65	782.69	754.75	726.83	698.92	671.04	643.18	615.34	587.52	559.72	531.95	504.20	476.48	448.79	421.13	794.31	794.31	794.31	794.31	794.31	794.31	794.31	794.31	794.31	794.31	794.31	794.31	794.31	794.31
26	26 MPH	1264.001	1220.408	1178.318	1137.679	1098.442	1060.559	1023.982	988.666	954.568	921.647	889.861	859.171	829.539	800.930	773.307	745.701	718.114	690.545	662.995	635.466	607.958	580.472	553.009	525.570	498.156	470.769	443.410	416.082	770.835	770.835	770.835	770.835	770.835	770.835	770.835	770.835	770.835	770.835	770.835	770.835	770.835	770.835
27	27 MPH	1248.846	1205.775	1164.190	1124.039	1085.272	1047.843	1011.705	976.812	943.124	910.597	879.192	848.870	819.593	791.327	764.035	736.761	709.504	682.266	655.046	627.847	600.669	573.512	546.378	519.268	492.183	465.125	438.094	411.093	748.058	748.058	748.058	748.058	748.058	748.058	748.058	748.058	748.058	748.058	748.058	748.058	748.058	748.058
28	28 MPH	1233.873	1191.319	1150.232	1110.562	1072.261	1035.280	999.575	965.101	931.816	899.679	868.650	838.692	809.767	781.839	754.875	727.927	700.997	674.086	647.193	620.320	593.467	566.636	539.828	513.042	486.282	459.548	432.842	406.164	725.953	725.953	725.953	725.953	725.953	725.953	725.953	725.953	725.953	725.953	725.953	725.953	725.953	725.953
29	29 MPH	1219.080	1177.035	1136.441	1097.247	1059.405	1022.867	987.590	953.530	920.644	888.892	858.236	828.636	800.058	772.465	745.824	719.200	692.593	666.004	639.433	612.882	586.352	559.842	533.355	506.891	480.452	454.038	427.652	401.295	704.502	704.502	704.502	704.502	704.502	704.502	704.502	704.502	704.502	704.502	704.502	704.502	704.502	704.502
30	30 MPH	1,204.46	1,162.92	1,122.82	1,084.09	1,046.70	1,010.60	975.75	942.10	909.61	878.23	847.95	818.70	790.47	763.20	736.88	710.58	684.29	658.02	631.77	605.53	579.32	553.13	526.96	500.81	474.69	448.59	422.52	396.48	683.68	683.68	683.68	683.68	683.68	683.68	683.68	683.68	683.68	683.68	683.68	683.68	683.68	683.68
31	31 MPH	1211.034	1169.267	1128.941	1090.006	1052.413	1016.117	981.073	947.237	914.568	883.026	852.572	823.168	794.778	767.367	740.902	714.453	688.022	661.608	635.213	608.838	582.482	556.148	529.835	503.546	477.281	451.042	424.830	398.646	664.774	664.774	664.774	664.774	664.774	664.774	664.774	664.774	664.774	664.774	664.774	664.774	664.774	664.774
32	32 MPH	1217.641	1175.646	1135.100	1095.952	1058.154	1021.660	986.425	952.404	919.557	887.843	857.223	827.659	799.114	771.554	744.944	718.351	691.775	665.218	638.679	612.159	585.660	559.182	532.726	506.293	479.885	453.502	427.147	400.821	646.387	646.387	646.387	646.387	646.387	646.387	646.387	646.387	646.387	646.387	646.387	646.387	646.387	646.387
33	33 MPH	1224.284	1182.060	1141.292	1101.931	1063.927	1027.234	991.806	957.600	924.574	892.687	861.899	832.174	803.473	775.763	749.008	722.270	695.549	668.847	642.163	615.499	588.855	562.232	535.632	509.055	482.503	455.976	429.478	403.008	628.508	628.508	628.508	628.508	628.508	628.508	628.508	628.508	628.508	628.508	628.508	628.508	628.508	628.508
34	34 MPH	1230.963	1188.508	1147.519	1107.942	1069.731	1032.838	997.217	962.824	929.618	897.557	866.601	836.714	807.857	779.995	753.094	726.210	699.344	672.495	645.666	618.856	592.067	565.299	538.554	511.832	485.135	458.464	431.821	405.206	611.124	611.124	611.124	611.124	611.124	611.124	611.124	611.124	611.124	611.124	611.124	611.124	611.124	611.124
35	35 MPH	1,237.68	1,194.99	1,153.78	1,113.99	1,075.57	1,038.47	1,002.66	968.08	934.69	902.45	871.33	841.28	812.26	784.25	757.20	730.17	703.16	676.16	649.19	622.23	595.30	568.38	541.49	514.62	487.78	460.97	434.18	407.42	594.22	594.22	594.22	594.22	594.22	594.22	594.22	594.22	594.22	594.22	594.22	594.22	594.22	594.22
36	36 MPH	1229.890	1187.473	1146.519	1106.977	1068.799	1031.938	996.348	961.985	928.808	896.775	865.846	835.985	807.153	779.315	752.438	725.577	698.734	671.910	645.104	618.317	591.551	564.807	538.085	511.386	484.712	458.065	431.444	404.853	579.885	579.885	579.885	579.885	579.885	579.885	579.885	579.885	579.885	579.885	579.885	579.885	579.885	579.885
37	37 MPH	1222.151	1180.001	1139.305	1100.012	1062.074	1025.445	990.079	955.932	922.964	891.132	860.398	830.724	802.074	774.412	747.703	721.012	694.338	667.682	641.044	614.427	587.829	561.253	534.699	508.169	481.662	455.182	428.730	402.306	565.895	565.895	565.895	565.895	565.895	565.895	565.895	565.895	565.895	565.895	565.895	565.895	565.895	565.895
38	38 MPH	1214.461	1172.576	1132.136	1093.090	1055.391	1018.992	983.849	949.917	917.156	885.525	854.984	825.497	797.027	769.539	742.999	716.475	689.969	663.480	637.011	610.560	584.130	557.721	531.335	504.971	478.632	452.318	426.032	399.774	552.243	552.243	552.243	552.243	552.243	552.243	552.243	552.243	552.243	552.243	552.243	552.243	552.243	552.243
39	39 MPH	1206.819	1165.198	1125.012	1086.212	1048.750	1012.580	977.658	943.940	911.385	879.953	849.605	820.303	792.012	764.697	738.323	711.967	685.627	659.306	633.002	606.719	580.455	554.212	527.991	501.794	475.620	449.472	423.351	397.259	538.920	538.920	538.920	538.920	538.920	538.920	538.920	538.920	538.920	538.920	538.920	538.920	538.920	538.920
40	40 MPH	1,199.23	1,157.87	1,117.93	1,079.38	1,042.15	1,006.21	971.51	938.00	905.65	874.42	844.26	815.14	787.03	759.88	733.68	707.49	681.31	655.16	629.02	602.90	576.80	550.72	524.67	498.64	472.63	446.64	420.69	394.76	525.92	525.92	525.92	525.92	525.92	525.92	525.92	525.92	525.92	525.92	525.92	525.92	525.92	525.92
41	41 MPH	1170.559	1130.189	1091.210	1053.576	1017.240	982.157	948.283	915.579	884.002	853.514	824.077	795.656	768.215	741.721	716.140	690.575	665.027	639.496	613.983	588.489	563.015	537.560	512.127	486.717	461.330	435.967	410.631	385.323	516.132	516.132	516.132	516.132	516.132	516.132	516.132	516.132	516.132	516.132	516.132	516.132	516.132	516.132
42	42 MPH	1142.578	1103.172	1065.126	1028.391	992.923	958.679	925.616	893.693	862.870	833.111	804.379	776.637	749.852	723.990	699.021	674.067	649.130	624.210	599.307	574.422	549.556	524.710	499.885	475.082	450.302	425.546	400.815	376.112	506.527	506.527	506.527	506.527	506.527	506.527	506.527	506.527	506.527	506.527	506.527	506.527	506.527	506.527
43	43 MPH	1115.266	1076.802	1039.665	1003.808	969.189	935.763	903.490	872.330	842.244	813.197	785.151	758.072	731.927	706.684	682.312	657.954	633.613	609.288	584.981	560.691	536.420	512.168	487.936	463.726	439.538	415.374	391.234	367.121	497.101	497.101	497.101	497.101	497.101	497.101	497.101	497.101	497.101	497.101	497.101	497.101	497.101	497.101
44	44 MPH	1088.607	1051.062	1014.813	979.813	946.021	913.394	881.893	851.477	822.111	793.758	766.382	739.951	714.431	689.791	666.002	642.227	618.467	594.724	570.997	547.288	523.597	499.925	476.272	452.641	429.031	405.444	381.882	358.346	487.851	487.851	487.851	487.851	487.851	487.851	487.851	487.851	487.851	487.851	487.851	487.851	487.851	487.851
45	45 MPH	1,062.58	1,025.94	990.55	956.39	923.41	891.56	860.81	831.12	802.46	774.78	748.06	722.26	697.35	673.30	650.08	626.87	603.68	580.51	557.35	534.21	511.08	487.97	464.89	441.82	418.78	395.75	372.75	349.78	478.77	478.77	478.77	478.77	478.77	478.77	478.77	478.77	478.77	478.77	478.77	478.77	478.77	478.77
46	46 MPH	999.555	965.082	931.798	899.662	868.634	838.676	809.751	781.824	754.860	728.826	703.690	679.421	655.989	633.364	611.521	589.691	567.875	546.074	524.288	502.518	480.765	459.029	437.312	415.613	393.935	372.278	350.643	329.032	473.459	473.459	473.459	473.459	473.459	473.459	473.459	473.459	473.459	473.459	473.459	473.459	473.459	473.459
47	47 MPH	940.265	907.836	876.527	846.296	817.109	788.928	761.719	735.449	710.084	685.594	661.949	639.120	617.077	595.795	575.247	554.712	534.190	513.682	493.189	472.710	452.248	431.801	411.372	390.961	370.568	350.196	329.844	309.515	468.203	468.203	468.203	468.203	468.203	468.203	468.203	468.203	468.203	468.203	468.203	468.203	468.203	468.203
48	48 MPH	884.491	853.986	824.534	796.097	768.641	742.131	716.536	691.824	667.964	644.927	622.684	601.209	580.474	560.455	541.125	521.808	502.504	483.212	463.934	444.671	425.422	406.188	386.971	367.770	348.587	329.423	310.279	291.155	463.006	463.006	463.006	463.006	463.006	463.006	463.006	463.006	463.006	463.006	463.006	463.006	463.006	463.006
49	49 MPH	832.026	803.331	775.625	748.875	723.047	698.110	674.034	650.787	628.343	606.672	585.749	565.547	546.042	527.210	509.027	490.856	472.697	454.550	436.415	418.294	400.187	382.094	364.017	345.955	327.910	309.883	291.874	273.885	457.867	457.867	457.867	457.867	457.867	457.867	457.867	457.867	457.867	457.867	457.867	457.867	457.867	457.867
50	50 MPH	782.67	755.68	729.62	704.45	680.16	656.70	634.05	612.18	591.07	570.69	551.00	532.00	513.65	495.94	478.83	461.74	444.66	427.59	410.53	393.48	376.45	359.43	342.42	325.43	308.46	291.50	274.56	257.64	452.78	452.78	452.78	452.78	452.78	452.78	452.78	452.78	452.78	452.78	452.78	452.78	452.78	452.78
51	51 MPH	796.402	768.935	742.416	716.811	692.089	668.220	645.174	622.923	601.440	580.697	560.669	541.333	522.663	504.637	487.233	469.840	452.458	435.088	417.730	400.385	383.053	365.735	348.431	331.143	313.870	296.615	279.377	262.158	451.816	451.816	451.816	451.816	451.816	451.816	451.816	451.816	451.816	451.816	451.816	451.816	451.816	451.816
52	52 MPH	810.372	782.424	755.439	729.385	704.230	679.942	656.492	633.850	611.990	590.883	570.504	550.829	531.831	513.489	495.780	478.082	460.395	442.720	425.057	407.408	389.772	372.150	354.543	336.951	319.376	301.818	284.278	266.757	450.850	450.850	450.850	450.850	450.850	450.850	450.850	450.850	450.850	450.850	450.850	450.850	450.850	450.850
53	53 MPH	824.587	796.149	768.691	742.180	716.583	691.869	668.008	644.969	622.725	601.248	580.512	560.491	541.161	522.497	504.477	486.468	468.471	450.486	432.514	414.555	396.609	378.678	360.762	342.862	324.978	307.112	289.264	271.436	449.885	449.885	449.885	449.885	449.885	449.885	449.885	449.885	449.885	449.885	449.885	449.885	449.885	449.885
54	54 MPH	839.052	810.114	782.175	755.199	729.153	704.006	679.725	656.283	633.649	611.795	590.695	570.323	550.653	531.662	513.326	495.001	476.688	458.388	440.101	421.827	403.566	385.321	367.091	348.876	330.679	312.499	294.339	276.198	448.923	448.923	448.923	448.923	448.923	448.923	448.923	448.923	448.923	448.923	448.923	448.923	448.923	448.923
55	55 MPH	853.77	824.32	795.90	768.45	741.94	716.35	691.65	667.79	644.76	622.53	601.06	580.33	560.31	540.99	522.33	503.68	485.05	466.43	447.82	429.23	410.65	392.08	373.53	355.00	336.48	317.98	299.50	281.04	447.96	447.96	447.96	447.96	447.96	447.96	447.96	447.96	447.96	447.96	447.96	447.96	447.96	447.96
56	56 MPH	866.564	836.677	807.821	779.961	753.061	727.089	702.013	677.802	654.425	631.855	610.063	589.023	568.709	549.095	530.157	511.232	492.319	473.418	454.531	435.658	416.799	397.955	379.127	360.316	341.522	322.746	303.990	285.254	451.183	451.183	451.183	451.183	451.183	451.183	451.183	451.183	451.183	451.183	451.183	451.183	451.183	451.183
57	57 MPH	879.549	849.215	819.926	791.648	764.346	737.984	712.533	687.958	664.232	641.323	619.205	597.850	577.231	557.323	538.102	518.892	499.696	480.512	461.342	442.186	423.045	403.918	384.808	365.715	346.639	327.582	308.545	289.528	454.428	454.428	454.428	454.428	454.428	454.428	454.428	454.428	454.428	454.428	454.428	454.428	454.428	454.428
58	58 MPH	892.729	861.940	832.213	803.511	775.799	749.043	723.210	698.267	674.185	650.933	628.484	606.808	585.880	565.674	546.165	526.668	507.184	487.713	468.255	448.812	429.384	409.971	390.575	371.195	351.834	332.491	313.168	293.867	457.696	457.696	457.696	457.696	457.696	457.696	457.696	457.696	457.696	457.696	457.696	457.696	457.696	457.696
59	59 MPH	906.106	874.856	844.683	815.551	787.424	760.267	734.047	708.730	684.287	660.687	637.901	615.901	594.660	574.151	554.349	534.560	514.784	495.021	475.272	455.537	435.818	416.114	396.427	376.757	357.106	337.473	317.861	298.270	460.987	460.987	460.987	460.987	460.987	460.987	460.987	460.987	460.987	460.987	460.987	460.987	460.987	460.987
60	60 MPH	919.68	887.97	857.34	827.77	799.22	771.66	745.05	719.35	694.54	670.59	647.46	625.13	603.57	582.75	562.66	542.57	522.50	502.44	482.39	462.36	442.35	422.35	402.37	382.40	362.46	342.53	322.62	302.74	464.30	464.30	464.30	464.30	464.30	464.30	464.30	464.30	464.30	464.30	464.30	464.30	464.30	464.30
61	61 MPH	925.162	893.254	862.447	832.703	803.984	776.256	749.484	723.636	698.678	674.582	651.317	628.854	607.166	586.225	566.007	545.802	525.610	505.431	485.267	465.118	444.984	424.866	404.764	384.681	364.616	344.571	324.546	304.543	471.570	471.570	471.570	471.570	471.570	471.570	471.570	471.570	471.570	471.570	471.570	471.570	471.570	471.570
62	62 MPH	930.673	898.575	867.585	837.663	808.773	780.880	753.949	727.946	702.840	678.600	655.197	632.600	610.782	589.717	569.379	549.053	528.741	508.442	488.158	467.888	447.634	427.396	407.175	386.972	366.788	346.623	326.479	306.357	478.952	478.952	478.952	478.952	478.952	478.952	478.952	478.952	478.952	478.952	478.952	478.952	478.952	478.952
63	63 MPH	936.217	903.928	872.753	842.653	813.591	785.532	758.440	732.282	707.027	682.643	659.099	636.368	614.421	593.230	572.771	552.324	531.890	511.471	491.066	470.675	450.301	429.942	409.601	389.277	368.973	348.688	328.424	308.182	486.450	486.450	486.450	486.450	486.450	486.450	486.450	486.450	486.450	486.450	486.450	486.450	486.450	486.450
64	64 MPH	941.794	909.312	877.952	847.672	818.437	790.211	762.958	736.644	711.239	686.709	663.025	640.159	618.081	596.764	576.182	555.614	535.059	514.518	493.991	473.479	452.983	432.503	412.041	391.596	371.171	350.765	330.380	310.018	494.065	494.065	494.065	494.065	494.065	494.065	494.065	494.065	494.065	494.065	494.065	494.065	494.065	494.065
65	65 MPH	947.40	914.73	883.18	852.72	823.31	794.92	767.50	741.03	715.48	690.80	666.97	643.97	621.76	600.32	579.61	558.92	538.25	517.58	496.93	476.30	455.68	435.08	414.50	393.93	373.38	352.85	332.35	311.86	501.80	501.80	501.80	501.80	501.80	501.80	501.80	501.80	501.80	501.80	501.80	501.80	501.80	501.80
66	66 MPH	919.154	887.454	856.847	827.295	798.763	771.215	744.617	718.936	694.141	670.201	647.087	624.770	603.223	582.418	562.332	542.258	522.197	502.149	482.116	462.097	442.094	422.106	402.136	382.183	362.248	342.333	322.438	302.566	513.016	513.016	513.016	513.016	513.016	513.016	513.016	513.016	513.016	513.016	513.016	513.016	513.016	513.016
67	67 MPH	885.023	854.500	825.030	796.576	769.103	742.578	716.967	692.240	668.366	645.315	623.059	601.571	580.823	560.792	541.451	522.122	502.806	483.503	464.214	444.938	425.678	406.433	387.203	367.991	348.797	329.621	310.465	291.331	527.389	527.389	527.389	527.389	527.389	527.389	527.389	527.389	527.389	527.389	527.389	527.389	527.389	527.389
68	68 MPH	841.479	812.458	784.437	757.383	731.262	706.042	681.692	658.181	635.482	613.565	592.404	571.973	552.246	533.200	514.811	496.433	478.067	459.714	441.374	423.047	404.734	386.436	368.153	349.886	331.636	313.403	295.190	276.997	547.182	547.182	547.182	547.182	547.182	547.182	547.182	547.182	547.182	547.182	547.182	547.182	547.182	547.182
69	69 MPH	780.147	753.241	727.263	702.180	677.963	654.581	632.006	610.209	589.164	568.844	549.226	530.284	511.995	494.337	477.288	460.250	443.223	426.207	409.204	392.212	375.234	358.270	341.319	324.384	307.464	290.561	273.675	256.807	578.272	578.272	578.272	578.272	578.272	578.272	578.272	578.272	578.272	578.272	578.272	578.272	578.272	578.272
70	70 MPH	814.33	786.25	759.13	732.95	707.67	683.26	659.70	636.95	614.98	593.77	573.29	553.52	534.43	516.00	498.20	480.42	462.64	444.88	427.13	409.40	391.68	373.97	356.28	338.60	320.94	303.29	285.67	268.06	560.44	560.44	560.44	560.44	560.44	560.44	560.44	560.44	560.44	560.44	560.44	560.44	560.44	560.44

Freight Rail Emissions

CO emissions																																														
NOX emissions	EPA Moves 2014	g / ton mile	0.2073	0.1954	0.1834	0.1715	0.1595	0.1476	0.1356	0.1237	0.1117	0.0998	0.0878	0.0830	0.0782	0.0735	0.0687	0.0639	0.0591	0.0543	0.0496	0.0448	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400
PM2.5 emissions	EPA Moves 2014	g / VMT																																												
PM10 emissions	EPA Moves 2014	g / ton mile	0.0052	0.0049	0.0045	0.0042	0.0038	0.0035	0.0031	0.0028	0.0024	0.0021	0.0017	0.0016	0.0015	0.0014	0.0013	0.0012	0.0010	0.0009	0.0008	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
SOX emissions																																														
VOC emissions	EPA Moves 2014	g / ton mile	0.0094	0.0088	0.0082	0.0075	0.0069	0.0063	0.0057	0.0051	0.0045	0.0039	0.0033	0.0031	0.0029	0.0028	0.0026	0.0024	0.0022	0.0020	0.0019	0.0017	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
CO2 emissions	EPA Moves 2014	g / ton mile	19.6327	19.3520	19.0713	18.7907	18.5100	18.2293	17.9487	17.6680	17.3873	17.1067	16.8260	16.5932	16.3604	16.1276	15.8948	15.6620	15.4292	15.1964	14.9636	14.7308	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980	14.4980

		Peak Hour			
Build	Year	AM Volum	PM volume	AM Delay/veh	PM Delay/Veh.
Alternate US at Meres Boulevard	2018	2058	2058	25.9	29
Alternate US at Tarpon Ave	2018	2198	2198	26.1	43.1
Alternate US at Meres Boulevard	2038	2502	2502	49.3	36.9
Alternate US at Tarpon Ave	2038	2576	2576	31.1	52.3

		Peak Hour			
No Build	Year	AM Volum	PM volume	AM Delay/	PM Delay/Veh.
Alternate US at Meres Boulevard	2018	2058	2058	32	26.7
Alternate US at Tarpon Ave	2018	2666	2666	70.3	76.2
Alternate US at Meres Boulevard	2038	2502	2502	79.5	35.2
Alternate US at Tarpon Ave	2038	2576	2576	140.9094	95.93745
Meres Growth		1.215743	1.215743	2.484375	1.318352
Build/no build base diff				44.2	33.1

Net Time Savings (seconds)- Per vehicle per day per peak hour

Volume Difference

	Year	AM Volum	PM volume	AM Delay/veh	PM Delay/Veh.	AM Volume Peak	
Alternate US at Meres Boulevard	2018	2058	2058	6.1	-2.3	0	0
Alternate US at Tarpon Ave	2018	2198	2198	44.2	33.1	-468	-468
Alternate US at Meres Boulevard	2038	2502	2502	30.2	-1.7	0	0
Alternate US at Tarpon Ave	2038	2576	2576	109.809375	43.63745	0	0

Net Time Savings (Seconds)- Per Day per peak hour total

	Year	AM Volum	PM volume	AM Delay/veh	PM Delay/	Total
Alternate US at Meres Boulevard	2018	2058	2058	12553.8	-4733.4	7820.4
Alternate US at Tarpon Ave (adj. volume)	2018	1730	1730	76466	57263	133729
Alternate US at Meres Boulevard	2038	2502	2502	75560.4	-4253.4	71307
Alternate US at Tarpon Ave	2038	2576	2576	282868.95	112410.1	395279

Seconds-to-hours	
Factor	3600
Annualization Factor	260

Net Time Savings (Hours) - Per Day per peak hour total

	Year	Total
Alternate US at Meres Boulevard	2018	2.172333
Alternate US at Tarpon Ave	2018	37.14694
Total	2018	39.31928
Annual	2018	10,223
Alternate US at Meres Boulevard	2038	19.8075
Alternate US at Tarpon Ave	2038	109.7997
Total	2038	129.6072
Annual	2038	33,698

Growth

	Unit	Total
Alternate US at Meres Boulevard	CAGR	11.7%
Alternate US at Tarpon Ave	CAGR	5.6%
Total	CAGR	6.1%

Input	Value	Source
AADT	6000	https://tdaappsprod.dot.state.fl.us/fto/
Bicyclists	60	Conservative Estimate
Pedestrians	180	Conservative Estimate

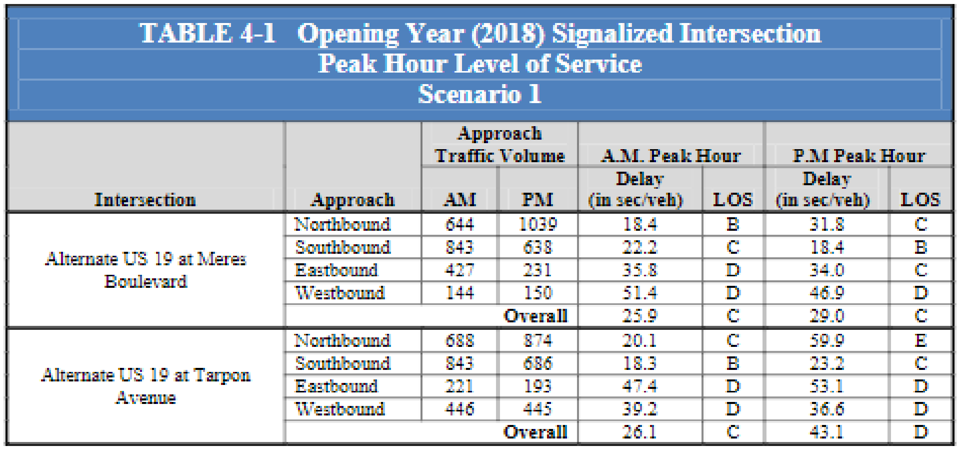


TABLE 4-1 Opening Year (2018) Signalized Intersection Peak Hour Level of Service Scenario 1

Intersection	Approach	Approach Traffic Volume		A.M. Peak Hour		P.M Peak Hour	
		AM	PM	Delay (in sec/veh)	LOS	Delay (in sec/veh)	LOS
Alternate US 19 at Meres Boulevard	Northbound	644	1039	18.4	B	31.8	C
	Southbound	843	638	22.2	C	18.4	B
	Eastbound	427	231	35.8	D	34.0	C
	Westbound	144	150	51.4	D	46.9	D
			Overall	25.9	C	29.0	C
Alternate US 19 at Tarpon Avenue	Northbound	688	874	20.1	C	59.9	E
	Southbound	843	686	18.3	B	23.2	C
	Eastbound	221	193	47.4	D	53.1	D
	Westbound	446	445	39.2	D	36.6	D
			Overall	26.1	C	43.1	D

TABLE 4-2 Opening Year (2018) Signalized Intersection Peak Hour Level of Service Scenario 2

Intersection	Approach	Approach Traffic Volume		A.M. Peak Hour		P.M Peak Hour	
		AM	PM	Delay (in sec/veh)	LOS	Delay (in sec/veh)	LOS
Alternate US 19 at Meres Boulevard	Northbound	644	1039	19.4	B	27.6	C
	Southbound	937	878	22.4	C	17.3	B
	Eastbound	667	325	53.7	D	38.6	D
	Westbound	144	150	49.5	D	49.6	D
			Overall	32.0	C	26.7	C
Alternate US 19 at Tarpon Avenue	Northbound	688	874	20.1	C	59.9	E
	Southbound	843	686	18.3	B	23.2	C
	Eastbound	221	193	47.4	D	53.1	D
	Westbound	446	445	39.2	D	36.6	D
			Overall	26.1	C	43.1	D

TABLE 5-1 Design Year (2038) Signalized Intersection
Peak Hour Level of Service
Scenario 1

Intersection	Approach	Approach Traffic Volume		A.M. Peak Hour		P.M Peak Hour	
		AM	PM	Delay (in sec/veh)	LOS	Delay (in sec/veh)	LOS
Alternate US 19 at Meres Boulevard	Northbound	841	1218	78.4	E	45.6	D
	Southbound	995	764	23.9	C	18.0	B
	Eastbound	508	338	49.1	D	39.7	D
	Westbound	158	182	53.4	D	51.6	D
			Overall	49.3	D	36.9	D
Alternate US 19 at Tarpon Avenue	Northbound	829	1029	24.1	C	68.9	E
	Southbound	1001	826	25.3	C	39.9	D
	Eastbound	253	218	48.0	D	54.7	D
	Westbound	493	503	45.9	D	38.2	D
			Overall	31.1	C	52.3	D

TABLE 5-2 Design Year (2038) Signalized Intersection
Peak Hour Level of Service
Scenario 2

Intersection	Approach	Approach Traffic Volume		A.M. Peak Hour		P.M Peak Hour	
		AM	PM	Delay (in sec/veh)	LOS	Delay (in sec/veh)	LOS
Alternate US 19 at Meres Boulevard	Northbound	841	1218	78.4	E	43.9	D
	Southbound	1114	1062	22.6	C	18.8	B
	Eastbound	806	457	163.5	F	43.7	D
	Westbound	158	182	53.4	D	51.6	D
			Overall	79.5	E	35.2	D
Alternate US 19 at Tarpon Avenue	Northbound	829	1029	24.1	C	68.9	E
	Southbound	1001	826	25.3	C	39.9	D
	Eastbound	253	218	48.0	D	54.7	D
	Westbound	493	503	45.9	D	38.2	D
			Overall	31.1	C	52.3	D

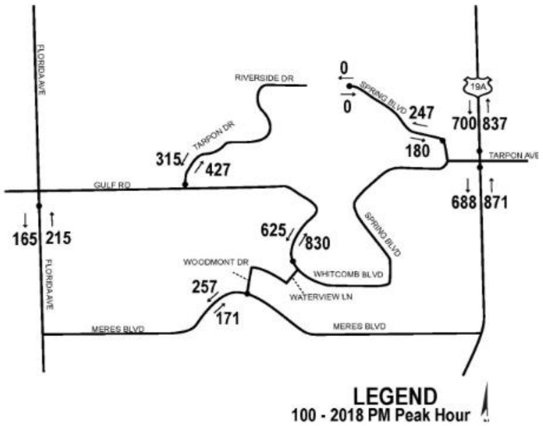
TABLE 6-2 Whitcomb Boulevard Detour Route
Signalized Intersection Peak Hour Level of Service

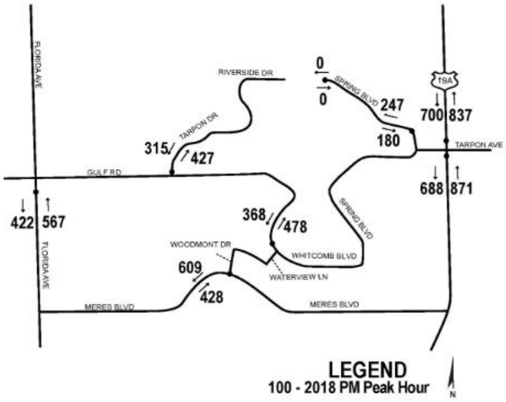
Intersection	Approach	Approach Traffic Volume		A.M. Peak Hour		P.M Peak Hour	
		AM	PM	Delay (in sec/veh)	LOS	Delay (in sec/veh)	LOS
Alternate US 19 at Tarpon Avenue	Northbound	705	902	53.5	D	91.0	F
	Southbound	984	800	97.1	F	60.3	E
	Eastbound	505	387	85.5	F	146.9	F
	Westbound	472	577	24.9	C	27.2	C
			Overall	70.3	E	76.2	E

TABLE 6-4 Meres Boulevard Detour Route
Signalized Intersection Peak Hour Level of Service

Intersection	Approach	Approach Traffic Volume		A.M. Peak Hour		P.M Peak Hour	
		AM	PM	Delay (in sec/veh)	LOS	Delay (in sec/veh)	LOS
Alternate US 19 at Meres Boulevard	Northbound	644	1039	19.4	B	27.6	C
	Southbound	937	878	22.4	C	17.3	B
	Eastbound	667	325	53.7	D	38.6	D
	Westbound	144	150	49.5	D	49.6	D
			Overall	32.0	C	26.7	C

FIGURE 6-2
WHITCOMB BOULEVARD DETOUR ROUTE
PM PEAK HOUR DIRECTIONAL VOLUMES





Estimated Cardiac Arrest Rate 13.72%

Input	Unit	Value	Source
National Cardiac Arrest Estimate (2021)	People	356,000	https://www.sca-aware.org/about-sudden-cardiac-arrest/latest-statistics
National Population (2021)	People	331,893,745	https://www.census.gov/quickfacts/fact/table/US/PST045221
Cardiac Arrest Rate	Factor	0.06%	FEMA BCA Guidance (p. 17, forumla (14): https://files.hudexchange.info/course-content/ndrc-nofa-benefit-cost-analysis-data-resources-and-expert-tips-webinar/FEMA-BCAR-Resource.pdf
Tarpon Springs population	People	25,560	https://www.census.gov/quickfacts/fact/table/tarponspringscityflorida/AGE775221
Response Distance	miles	3	google maps - Tarpon Springs Fire to Parkside
Response Time - based on distance	minutes	13	FEMA BCA Guidance (p. 17, forumla (19): https://files.hudexchange.info/course-content/ndrc-nofa-benefit-cost-analysis-data-resources-and-expert-tips-webinar/FEMA-BCAR-Resource.pdf
Survival Rate - No Build	Factor	3.74%	FEMA BCA Guidance (p. 18, forumla (24): https://files.hudexchange.info/course-content/ndrc-nofa-benefit-cost-analysis-data-resources-and-expert-tips-webinar/FEMA-BCAR-Resource.pdf
Survival Rate -Build	Factor	9.92%	FEMA BCA Guidance (p. 18, forumla (20): https://files.hudexchange.info/course-content/ndrc-nofa-benefit-cost-analysis-data-resources-and-expert-tips-webinar/FEMA-BCAR-Resource.pdf
Tarpon Springs annual cardiac arrest incidents	People	15	Calculator

Input	Unit	Value	Source
Average US response time	minutes	8.5	https://www.ahajournals.org/doi/10.1161/JAHA.120.017048
Study response time	minutes	6	https://www.ahajournals.org/doi/10.1161/JAHA.120.017048
Tarpon Springs Emergency Response time - no Bridge access delay to response time	minutes	4.25	TSFD Letter of Support, WSP Conservative assumptions
Tarpon Springs Emergency Response Time - no bridge delay	minutes	8.5	Using National average unless another estimate can be given; https://www.ahajournals.org/doi/10.1161/JAHA.120.017048
Tarpon springs total emergency response time - Standard + 4.25 bridge delay	minutes	12.75	Calculator
Applicable Trips (% of population) for Emergency Response delay due to no bridge access	factor	0.25	Conservative estimate - 25% of population is estimated based on the location of emergency response centers and where residential communities are located
Tarpon Springs Estimated Survival Rate - No Build	people	13.70	Calculator
Tarpon Springs Estimated Survival Rate - Build	people	13.47	Calculator
Survival Rate Delta	people	0.23	Calculator

BCR 1.92

Variable	**Source**	**Units**	**Constant (Likely Case)**
General Project Details			
Scenario	User Defined		BASELINE
Discount Rate		percent	7.00%
Design/Construction Start Date	Project Defined	year	2020
Design/Construction Period	Project Defined	years	6
Project Opening	Project Defined	year	2026
First Year Adjustment Factor	Project Defined	Adj. for partial years	
Operations Period	User Defined	years	30
Analysis Length (Including Construction)	User Defined	years	36
Percent Rural	Project Defined	percent	
Percent Urban	Project Defined	percent	
Individual Item Details (for Residual Value Calc)			
Item 1			
Asset Name		words	*Movable Bridge*
Expected Lifespan of Asset		years	75
Last purchase year		year	2,025
Analysis End Year		year	2055
Item Capital Cost		2020$	13,581,681
Item 2			
Asset Name		words	*Enter Asset Name*
Expected Lifespan of Asset		years	
Last purchase year		year	
Analysis End Year		year	2055
Item Capital Cost		2020$	
Item 3			
Asset Name		words	*Enter Asset Name*
Expected Lifespan of Asset		years	
Last purchase year		year	
Analysis End Year		year	2055
Item Capital Cost		2020$	
Item 4			
Asset Name		words	*Enter Asset Name*
Expected Lifespan of Asset		years	
Last purchase year		year	
Analysis End Year		year	2055
Item Capital Cost		2020$	
Item 5			
Asset Name		words	*Enter Asset Name*
Expected Lifespan of Asset		years	
Last purchase year		year	
Analysis End Year		year	2055
Item Capital Cost		2020$	
Facility Improvements			
Public Transit Facility	*1 = project will make improvement; 0 = project will not make improvement*		
Bus Stop			
Clocks	Project Defined	indicator	
Electronic Real-Time Information Displays	Project Defined	indicator	
Information/Emergency Button	Project Defined	indicator	
PA System	Project Defined	indicator	
Platform/Stop Seating Availability	Project Defined	indicator	
Platform/Stop Weather Protection	Project Defined	indicator	
Restroom Availability	Project Defined	indicator	
Retail/Food Outlet Availability	Project Defined	indicator	
Staff Availability	Project Defined	indicator	
Step-free Access to Station/Stop	Project Defined	indicator	
Step-free Access to Vehicle	Project Defined	indicator	
Surveillance Cameras	Project Defined	indicator	
Temperature Controlled Environment	Project Defined	indicator	
Ticket Machines	Project Defined	indicator	
Timetables	Project Defined	indicator	
Bike Facilities	Project Defined	indicator	
Car Access Facilities	Project Defined	indicator	
Elevator	Project Defined	indicator	
Escalators	Project Defined	indicator	
On-Site Ticket Office	Project Defined	indicator	
Taxi Pickup/Dropoff	Project Defined	indicator	
Waiting Room	Project Defined	indicator	

Light Rail/Streetcar Stop

Clocks	Project Defined	indicator
Electronic Real-Time Information Displays	Project Defined	indicator
Information/Emergency Button	Project Defined	indicator
PA System	Project Defined	indicator
Platform/Stop Seating Availability	Project Defined	indicator
Platform/Stop Weather Protection	Project Defined	indicator
Restroom Availability	Project Defined	indicator
Retail/Food Outlet Availability	Project Defined	indicator
Staff Availability	Project Defined	indicator
Step-free Access to Station/Stop	Project Defined	indicator
Step-free Access to Vehicle	Project Defined	indicator
Surveillance Cameras	Project Defined	indicator
Temperature Controlled Environment	Project Defined	indicator
Ticket Machines	Project Defined	indicator
Timetables	Project Defined	indicator
Bike Facilities	Project Defined	indicator
Car Access Facilities	Project Defined	indicator
Elevator	Project Defined	indicator
Escalators	Project Defined	indicator
On-Site Ticket Office	Project Defined	indicator
Taxi Pickup/Dropoff	Project Defined	indicator
Waiting Room	Project Defined	indicator

Rail Stop

Clocks	Project Defined	indicator
Electronic Real-Time Information Displays	Project Defined	indicator
Information/Emergency Button	Project Defined	indicator
PA System	Project Defined	indicator
Platform/Stop Seating Availability	Project Defined	indicator
Platform/Stop Weather Protection	Project Defined	indicator
Restroom Availability	Project Defined	indicator
Retail/Food Outlet Availability	Project Defined	indicator
Staff Availability	Project Defined	indicator
Step-free Access to Station/Stop	Project Defined	indicator
Step-free Access to Vehicle	Project Defined	indicator
Surveillance Cameras	Project Defined	indicator
Temperature Controlled Environment	Project Defined	indicator
Ticket Machines	Project Defined	indicator
Timetables	Project Defined	indicator
Bike Facilities	Project Defined	indicator
Car Access Facilities	Project Defined	indicator
Elevator	Project Defined	indicator
Escalators	Project Defined	indicator
On-Site Ticket Office	Project Defined	indicator
Taxi Pickup/Dropoff	Project Defined	indicator
Waiting Room	Project Defined	indicator

Public Transit Vehicle Amenities	*1 = project will make improvement; 0 = project will not make improvement*			
Bus				
Electronic Real-Time Information Displays	Project Defined	indicator		
Handrails	Project Defined	indicator		
Luggage Storage	Project Defined	indicator		
PA System	Project Defined	indicator		
Surveillance Cameras	Project Defined	indicator		
Temperature Control	Project Defined	indicator		
Wheelchair Space	Project Defined	indicator		
Light Rail/Streetcar				
Electronic Real-Time Information Displays	Project Defined	indicator		
Handrails	Project Defined	indicator		
Luggage Storage	Project Defined	indicator		
PA System	Project Defined	indicator		
Surveillance Cameras	Project Defined	indicator		
Temperature Control	Project Defined	indicator		
Wheelchair Space	Project Defined	indicator		
Rail				
Electronic Real-Time Information Displays	Project Defined	indicator		
Handrails	Project Defined	indicator		
Luggage Storage	Project Defined	indicator		
PA System	Project Defined	indicator		
Surveillance Cameras	Project Defined	indicator		
Temperature Control	Project Defined	indicator		
Wheelchair Space	Project Defined	indicator		
Food Service Availability	Project Defined	indicator		
Restroom Availability	Project Defined	indicator		
Active Transportation Facility				
Pedestrian				
Expand Sidewalk (added width)	Project Defined	feet	12	*per USDOT guidance, anything above 31 feet*
Facility length	Project Defined	miles	0.075	*per USDOT guidance, anything above 0.86 mil*
Marked Crosswalk (Roadway with Volume ≥10,000	Project Defined	indicator		*1 = project will make improvement; 0 = project*
Pedestrian Signal (Roadway with Volume ≥13,000 A	Project Defined	indicator		*1 = project will make improvement; 0 = project*
Cycling				
Type of Cycling Improvement	Project Defined	text	Dedicated Cycling Lane	
Cycling Facility Length	Project Defined	miles	0.075	*per USDOT guidance, anything above 2.38 mil*
Vehicle Fuel Type (Emission Lookup)				
Passenger Car	Project Defined	text	Gasoline	
Trucks	Project Defined	text	Diesel	
Bus	Project Defined	text	Gasoline	

			Calendar Year	Summary	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
Forecast period flag		-	Factor	36.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
Operations period flag		-	Factor	30.00	-	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
No-build end of useful life flag		-	Factor	-	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variable	**Source/Notes**		**Unit**																																													
Benefits																																																
Project Demand																																																
Used for Emissions, Vehicle O&M/Fuel Savings, Active Transportation, and Facility and Vehicle Amenities calculations. May also be used to help calculate other benefits, such as travel time savings.																																																
Auto																																																
No-Build Annual Vehicle-Miles Traveled	User Input		VMT	-																																												
No-Build Average Speed	User Input		MPH	-																																												
Build Annual Vehicle-Miles Traveled	User Input		VMT	-																																												
Average Speed	User Input		MPH	-																																												
VMT Reduction (negative = increase in VMT, positive = decrease i	User Input		VMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trucks																																																
No-Build Annual Vehicle-Miles Traveled	User Input		VMT	-																																												
Average Speed	User Input		MPH	-																																												
Build Annual Vehicle-Miles Traveled	User Input		VMT	-																																												
Average Speed	User Input		MPH	-																																												
VMT Reduction (negative = increase in VMT, positive = decrease i	User Input		VMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus																																																
No-Build Bus Annual Passenger Trips	User Input		trips	-																																												
No-Build Annual Vehicle-Miles Traveled	User Input		VMT	-																																												
Average Speed	User Input		MPH	-																																												
Build Bus Annual Passenger Trips	User Input		trips	-																																												
Build Annual Vehicle-Miles Traveled	User Input		VMT	-																																												
Average Speed	User Input		MPH	-																																												
VMT Reduction (negative = increase in VMT, positive = decrease i	User Input		Ton-Miles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freight Rail																																																
Ton-Mile Reduction (negative = increase in ton-miles, positive = d	User Input		Ton-Miles	-																																												
Average Speed	User Input		MPH	-																																												
Passenger Rail																																																
Type of Rail Impacted			Commuter																																													
No-Build Rail Annual Passenger Trips	User Input		trips	-																																												
No-Build Annual Passenger-Miles Traveled	User Input		Passenger Miles Traveled	-																																												
Build Rail Annual Passenger Trips	User Input		trips	-																																												
Build Annual Passenger-Miles Traveled	User Input		Passenger Miles Traveled	-																																												
Passenger Mile Reduction (negative = increase in PMT, positive =	User Input		Passenger Miles Traveled		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Light Rail/Streetcar																																																
No-Build Light Rail/Streetcar Annual Trips	User Input		trips	-																																												
Build Light Rail/Streetcar Annual Trips	User Input		trips	-																																												
Pedestrians																																																
No Build Pedestrian Trips	User Input		trips	-							-																																					
Build Pedestrian Trips	User Input		trips	1,971,000	-	-	-	-	-	-	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700								
Induced Pedestrian Trips	Calculation		trips	1,095,000	-	-	-	-	-	-	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	65,700	-	-	-	-	-	-	-	-
Cyclists																																																
No-Build Cycling Trips	User Input		trips	-																																												
Build Cycling Trips	User Input		trips	657,000	-	-	-	-	-	-	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900								
Induced Cycling Trips	Calculation		trips	657,000	-	-	-	-	-	-	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	21,900	-	-	-	-	-	-	-	-
					25822.354																																											

Generalized Travel Cost Savings																									
Travel Time Savings - Auto	negative = increase in PHT, positive = decrease in PHT	person-hours traveled	919,384	-	-	-	-	-	-	19,612.96	20,786.70	21,960.45	23,134.19	24,307.93	25,481.68	26,655.42	27,829.16	29,002.91	30,176.65	31,350.39	32,524.14	33,698	33,698	33,698	33,698
Travel Time Savings - Truck	negative = increase in PHT, positive = decrease in PHT	person-hours traveled	-																						
Travel Time Savings - Transit (in-vehicle)	negative = increase in PHT, positive = decrease in PHT	person-hours traveled	-																						
Travel Time Savings - Transit (out-of-vehicle)	negative = increase in PHT, positive = decrease in PHT	person-hours traveled	-																						
Travel Time Savings - Intercity Rail Passengers	negative = increase in PHT, positive = decrease in PHT	person-hours traveled	-																						
Travel Time Savings - Pedestrians/Bicyclists	negative = increase in PHT, positive = decrease in PHT	person-hours traveled	-																						
Safety																									
If you have crash rates																									
Fatal Crashes Reduction	User Input	# per year	-																						
Injury Crashes	User Input	# per year	-																						
Property Damage Only (PDO) Crashes	User Input	# per year	-																						
If you have KABCO Rates																									
No Injury - O	User Input	# per year	-																						
Possible Injury - C	User Input	# per year	-																						
Non Incapacitating - B	User Input	# per year	-																						
Incapacitating - A	User Input	# per year	-																						
Killed - K	User Input	# per year	-																						
Injured Severity Unknown	User Input	# per year	-																						
Unknown If Injured	User Input	# per year	-																						
Emergency Response																									
Number of deaths avoided per year due to cardiac arrest	User Input	# per year	-																						
Ongoing Costs / Cost Savings																									
Operating & Maintenance Costs																									
No-Build O&M Costs	User Input	2020$	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Build O&M Costs	User Input	2020$	4,200,000	$ -	$ -	$ -	$ -	$ -	$ -	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
Net O&M Costs	calculation	2020$	(4,200,000)	$0	$0	$0	$0	$0	$0	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)
Repair & Rehabilitation Costs																									
No-Build R&R Costs	User Input	2020$	-																						
Build R&R Costs	User Input	2020$	-																						
Net R&R Costs	calculation	2020$	-	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
No Build Capacity Reduction		Factor		-	0.17	0.33	0.50	0.67	0.83	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Capital Costs																									
Preliminary Engineering	User Input	2020$	1,744,489	$890,000	$854,489																				
Right-of-Way	User Input	2020$	-																						
Construction	User Input	2020$	18,648,192				$6,368,760	$6,214,824	$6,064,608																
Total Capital Costs	User Input	2020$	20,392,681	$890,000	$854,489	$0	$6,368,760	$6,214,824	$6,064,608	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Travel Time Savings - Auto	33,698	33,698	33,698	33,698	33,698	33,698	33,698	33,698	33,698	33,698	33,698	33,698	33,698	33,698								
Travel Time Savings - Truck																						
Travel Time Savings - Transit (in-vehicle)																						
Travel Time Savings - Transit (out-of-vehicle)																						
Travel Time Savings - Intercity Rail Passengers																						
Travel Time Savings - Pedestrians/Bicyclists																						
Fatal Crashes Reduction																						
Injury Crashes																						
Property Damage Only (PDO) Crashes																						
No Injury - O																						
Possible Injury - C																						
Non Incapacitating - B																						
Incapacitating - A																						
Killed - K																						
Injured Severity Unknown																						
Unknown If Injured																						
Number of deaths avoided per year due to cardiac arrest																						
No-Build O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Build O&M Costs	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Net O&M Costs	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	($140,000)	$0	$0	$0	$0	$0	$0	$0	$0
No-Build R&R Costs																						
Build R&R Costs																						
Net R&R Costs	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
No Build Capacity Reduction	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00													
Preliminary Engineering																						
Right-of-Way																						
Construction																						
Total Capital Costs	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

		Calendar Year		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
Forecast period flag	-	Factor	36.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
Operations period flag	-	Factor	30.00	-	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
No-build end of useful life flag	-	Factor	-	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variable	**Source/Notes**	**Unit**																																													
Travel Time Savings - Auto	negative = increase in PHT, positive = decrease in PH	person-hours traveled	919,384	-	-	-	-	-	-	19,612.96	20,786.70	21,960.45	23,134.19	24,307.93	25,481.68	26,655.42	27,829.16	29,002.91	30,176.65	31,350.39	32,524.14	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	33,697.88	-	-	-	-	-	-	-	-
Travel Time Savings - Truck	negative = increase in PHT, positive = decrease in PH	person-hours traveled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Transit (in-vehicle)	negative = increase in PHT, positive = decrease in PH	person-hours traveled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Transit (out-of-vehicle)	negative = increase in PHT, positive = decrease in PH	person-hours traveled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Intercity Rail Passengers	negative = increase in PHT, positive = decrease in PH	person-hours traveled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Pedestrians/Bicyclists	negative = increase in PHT, positive = decrease in PH	person-hours traveled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle O&M Costs - Auto	negative = increase in VMT, positive = decrease in V	VMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle O&M Costs - Truck	negative = increase in VMT, positive = decrease in V	VMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Fatal Crashes Reduction	negative = increase in crashes, positive = decrease ir	Injuries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Injury Crashes	negative = increase in crashes, positive = decrease ir	Injuries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Property Damage Only (PDO) Crashes	negative = increase in crashes, positive = decrease ir	Injuries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - No Injury - O	negative = increase in crashes, positive = decrease ir	Injuries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Possible Injury - C	negative = increase in crashes, positive = decrease ir	Injuries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Non Incapacitating - B	negative = increase in crashes, positive = decrease ir	Injuries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Incapacitating - A	negative = increase in crashes, positive = decrease ir	Injuries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Killed - K	negative = increase in crashes, positive = decrease ir	Injuries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Injured Severity Unknown	negative = increase in crashes, positive = decrease ir	Injuries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Unknown If Injured	negative = increase in crashes, positive = decrease ir	Injuries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Damage - Auto	negative = increase in VMT, positive = decrease in V	VMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Damage - Trucks	negative = increase in VMT, positive = decrease in V	VMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congestion - Auto	negative = increase in VMT, positive = decrease in V	VMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congestion - Truck	negative = increase in VMT, positive = decrease in V	VMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise - Auto	negative = increase in VMT, positive = decrease in V	VMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise - Truck	negative = increase in VMT, positive = decrease in V	VMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pedestrians - Sidewalk	negative = decrease in pedestrian trips, positive = in	pedestrian trips	1,095,000	-	-	-	-	-	-	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	-	-	-	-	-	-	-	-
Pedestrians - Marked Crosswalk	negative = decrease in pedestrian trips, positive = in	pedestrian trips	1,095,000	-	-	-	-	-	-	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	-	-	-	-	-	-	-	-
Pedestrians - Signal	negative = decrease in pedestrian trips, positive = in	pedestrian trips	1,095,000	-	-	-	-	-	-	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	-	-	-	-	-	-	-	-
Cycling Facility Improvement	negative = decrease in cycling trips, positive = increa	cycling	657,000	-	-	-	-	-	-	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	-	-	-	-	-	-	-	-
Mortality Reduction Benefit - Walking	negative = decrease in pedestrian trips; positive = in	trips	1,095,000	-	-	-	-	-	-	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	65,700.00	-	-	-	-	-	-	-	-
Mortality Reduction Benefit - Cycling	negative = decrease in cycling trips; positive = increa	trips	657,000	-	-	-	-	-	-	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	-	-	-	-	-	-	-	-
Emergency Response	negative = increase in persons dying, positive = decr	Persons	7	-	-	-	-	-	-	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	-	-	-	-	-	-	-	-
Facility Improvements - Bus Stop	negative = decrease in amenities; positive = increase	2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Facility Improvements - Light Rail/Streetcar St	negative = decrease in amenities; positive = increase	2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Facility Improvements - Rail Station	negative = decrease in amenities; positive = increase	2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transit Vehicle Amenities - Bus	negative = decrease in amenities; positive = increase	2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transit Vehicle Amenities - Light Rail/Streetcar	negative = decrease in amenities; positive = increase	2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transit Vehicle Amenities - Rail	negative = decrease in amenities; positive = increase	2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual Value	always positive	2020$	8,149,009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,149,008.60	-	-	-	-	-	-	-	-
Net O&M Costs	negative = increase in O&M costs; positive = decrea	2020$	(4,200,000)	-	-	-	-	-	-	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	-	-	-	-	-	-	-	-
Net R&R Costs	negative = increase in R&R costs; positive = decreas	2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Costs	always positive	2020$	20,392,681	890,000.00	854,489.02	-	6,368,760.16	6,214,823.76	6,064,608.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
No Build Capacity Reduction	0	Factor	0	0	0.166666667	0.333333333	0.5	0.666666667	0.833333333	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1													

Base Year (for valuation 2020 = 2020$s)		2020	Calendar Year		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
Forecast period flag		-	Factor	36.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
Operations period flag		-	Factor	30.00	-	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
No-build end of useful life flag		-	Factor	-	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variable	**Source/Notes**		**Unit**																																													
Travel Time Savings - Auto			2020$ per hour		$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80
Travel Time Savings - Truck			2020$ per hour		$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00	$32.00
Travel Time Savings - Transit (in-vehicle)			2020$ per hour		$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80	$17.80
Travel Time Savings - Transit (out-of-vehicle)			2020$ per hour		$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40
Travel Time Savings - Intercity Rail Passengers			2020$ per hour		$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13	$24.13
Travel Time Savings - Pedestrians/Bicyclists			2020$ per hour		$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40	$32.40
Fuel Savings - Bus			2020$ per gal, excl. ta		$2.48	$2.48	$2.36	$2.25	$2.36	$2.35	$2.35	$2.36	$2.38	$2.40	$2.40	$2.48	$2.49	$2.51	$2.51	$2.52	$2.55	$2.57	$2.59	$2.60	$2.63	$2.65	$2.65	$2.68	$2.72	$2.73	$2.76	$2.76	$2.76	$2.75	$2.75	$2.62	$2.50	$2.38	$2.27	$2.16	$2.06	$1.96	$1.86	$1.77	$1.68	$1.59	$1.51	$1.43
Fuel Savings - Rail			2020$ per gal, excl. ta		$2.48	$2.48	$2.36	$2.25	$2.36	$2.35	$2.35	$2.36	$2.38	$2.40	$2.40	$2.48	$2.49	$2.51	$2.51	$2.52	$2.55	$2.57	$2.59	$2.60	$2.63	$2.65	$2.65	$2.68	$2.72	$2.73	$2.76	$2.76	$2.76	$2.75	$2.75	$2.62	$2.50	$2.38	$2.27	$2.16	$2.06	$1.96	$1.86	$1.77	$1.68	$1.59	$1.51	$1.43
Vehicle O&M Costs - Auto			2020$ per VMT		$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45	$0.45
Vehicle O&M Costs - Truck			2020$ per VMT		$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94	$0.94
Emissions - NOX			2020$ per ton		$15,600	$15,600	$15,800	$16,000	$16,200	$16,500	$16,800	$17,100	$17,400	$17,700	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100	$18,100
Emissions - PM2.5			2020$ per ton		$748,600	$748,600	$761,600	$774,700	$788,100	$801,700	$814,500	$827,400	$840,600	$854,000	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600	$867,600
Emissions - SOX			2020$ per ton		$41,500	$41,500	$42,300	$43,100	$44,000	$44,900	$45,700	$46,500	$47,300	$48,200	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100	$49,100
Emissions - CO2			2020$ per ton		$52.00	$52.00	$53.00	$54.00	$55.00	$56.00	$57.00	$58.00	$60.00	$61.00	$62.00	$63.00	$64.00	$65.00	$66.00	$67.00	$69.00	$70.00	$71.00	$72.00	$73.00	$74.00	$75.00	$77.00	$78.00	$79.00	$80.00	$81.00	$82.00	$83.00	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00
Safety - Fatal Crashes Reduction			2020$ per Injury		$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400	$12,837,400
Safety - Injury Crashes			2020$ per Injury		$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600	$302,600
Safety - Property Damage Only (PDO) Crashes			2020$ per Injury		$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600	$4,600
Safety - No Injury - O			2020$ per crash		$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900	$3,900
Safety - Possible Injury - C			2020$ per crash		$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200	$77,200
Safety - Non Incapacitating - B			2020$ per crash		$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000	$151,000
Safety - Incapacitating - A			2020$ per crash		$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800	$554,800
Safety - Killed - K			2020$ per crash		$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000
Safety - Injured Severity Unknown			2020$ per crash		$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300	$210,300
Safety - Unknown If Injured			2020$ per crash		$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800	$159,800
Pavement Damage - Auto			2020$ per VMT		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Pavement Damage - Trucks			2020$ per VMT		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Congestion - Auto			2020$ per VMT		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Congestion - Truck			2020$ per VMT		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Noise - Auto			2020$ per VMT		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Noise - Truck			2020$ per VMT		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Pedestrians - Sidewalk			2020$ per person-mil		$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09	$0.09
Pedestrians - Marked Crosswalk			2020$ per person		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Pedestrians - Signal			2020$ per person		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Cycling Facility Improvement			2020$ per cycling mil		$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13	$0.13
Mortality Reduction Benefit - Walking			2020$ / trip		$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08	$7.08
Mortality Reduction Benefit - Cycling			2020$ / trip		$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31	$6.31
Emergency Response			2020$ / per avoided f		$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000	$11,600,000
Facility Improvements - Bus Stop			2020$ / trip		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Facility Improvements - Light Rail/Streetcar Stop			2020$ / trip		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Facility Improvements - Rail Station			2020$ / trip		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Transit Vehicle Amenities - Bus			2020$ / trip		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Transit Vehicle Amenities - Light Rail/Streetcar			2020$ / trip		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Transit Vehicle Amenities - Rail			2020$ / trip		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Residual Value			Factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Net O&M Costs			Factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Net R&R Costs			Factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Capital Costs			Factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

			Calendar Y	Summary	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
Forecast period flag		-	Factor	36.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
Operations period flag		-	Factor	30.00	-	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
No-build end of useful life flag		-	Factor	-	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variable	**Source/Notes**		**Unit**																																													
Travel Time Savings - Auto			2020$	16,365,042.55	-	-	-	-	-	-	349,111	370,003	390,896	411,789	432,681	453,574	474,466	495,359	516,252	537,144	558,037	578,930	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	599,822	-	-	-	-	-	-	-	-
Travel Time Savings - Truck			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Transit (in-vehicle)			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Transit (out-of-vehicle)			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Intercity Rail Passengers			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Pedestrians/Bicyclists			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel Savings - Bus			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel Savings - Rail			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle O&M Costs - Auto			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle O&M Costs - Truck			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emissions - NOX			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emissions - PM2.5			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emissions - SOX			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emissions - CO2			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Fatal Crashes Reduction			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Injury Crashes			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Property Damage Only (PDO) Crashes			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - No Injury - O			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Possible Injury - C			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Non Incapacitating - B			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Incapacitating - A			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Killed - K			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Injured Severity Unknown			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Unknown If Injured			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Damage - Auto			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Damage - Trucks			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congestion - Auto			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congestion - Truck			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise - Auto			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise - Truck			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pedestrians - Sidewalk			2020$	98,550.00	-	-	-	-	-	-	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	1,971	5,913	5,913	5,913	5,913	5,913	5,913	5,913	5,913	5,913	5,913	-	-	-	-	-	-	-	-
Pedestrians - Marked Crosswalk			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pedestrians - Signal			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cycling Facility Improvement			2020$	83,274.75	-	-	-	-	-	-	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	2,776	-	-	-	-	-	-	-	-
Mortality Reduction Benefit - Walking			2020$	7,752,600.00	-	-	-	-	-	-	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	155,052	465,156	465,156	465,156	465,156	465,156	465,156	465,156	465,156	465,156	465,156	-	-	-	-	-	-	-	-
Mortality Reduction Benefit - Cycling			2020$	4,145,670.00	-	-	-	-	-	-	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	138,189	-	-	-	-	-	-	-	-
Emergency Response Benefit			2020$	80,342,740.50	-	-	-	-	-	-	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	2,678,091	-	-	-	-	-	-	-	-
Facility Improvements - Bus Stop			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Facility Improvements - Light Rail/Streetcar Stop			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Facility Improvements - Rail Station			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transit Vehicle Amenities - Bus			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transit Vehicle Amenities - Light Rail/Streetcar			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transit Vehicle Amenities - Rail			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual Value			2020$	8,149,008.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,149,009	-	-	-	-	-	-	-	-
Net O&M Costs			2020$	(4,200,000.00)	-	-	-	-	-	-	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	(140,000)	-	-	-	-	-	-	-	-
Net R&R Costs			2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Costs			2020$	20,392,681.03	890,000	854,489	-	6,368,760	6,214,824	6,064,608	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL BASE BENEFITS			**2020$**	**112,736,886.404**	-	-	-	-	-	-	**3,185,190**	**3,206,082**	**3,226,975**	**3,247,868**	**3,268,760**	**3,289,653**	**3,310,546**	**3,331,438**	**3,352,331**	**3,373,224**	**3,394,116**	**3,415,009**	**3,435,901**	**3,435,901**	**3,435,901**	**3,435,901**	**3,435,901**	**3,435,901**	**3,435,901**	**3,435,901**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**11,898,956**	-	-	-	-	-	-	-	-
CUMULATIVE BASE BENEFITS			**2020$**	**2,482,097,331.564**	-	-	-	-	-	-	**3,185,190**	**6,391,272**	**9,618,247**	**12,866,115**	**16,134,876**	**19,424,529**	**22,735,074**	**26,066,513**	**29,418,843**	**32,792,067**	**36,186,183**	**39,601,192**	**43,037,093**	**46,472,995**	**49,908,896**	**53,344,798**	**56,780,699**	**60,216,601**	**63,652,502**	**67,088,403**	**70,838,351**	**74,588,298**	**78,338,246**	**82,088,193**	**85,838,141**	**89,588,088**	**93,338,035**	**97,087,983**	**100,837,930**	**112,736,886**	**112,736,886**	**112,736,886**	**112,736,886**	**112,736,886**	**112,736,886**	**112,736,886**	**112,736,886**	**112,736,886**
TOTAL BASE COSTS			**2020$**	**20,392,681.030**	**890,000**	**854,489**	-	**6,368,760**	**6,214,824**	**6,064,608**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMULATIVE BASE COSTS			**2020$**	**822,134,860.351**	**890,000**	**1,744,489**	**1,744,489**	**8,113,249**	**14,328,073**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**	**20,392,681**
NET CASH FLOWS			**2020$**	**92,344,205.374**	**(890,000)**	**(854,489)**	-	**(6,368,760)**	**(6,214,824)**	**(6,064,608)**	**3,185,190**	**3,206,082**	**3,226,975**	**3,247,868**	**3,268,760**	**3,289,653**	**3,310,546**	**3,331,438**	**3,352,331**	**3,373,224**	**3,394,116**	**3,415,009**	**3,435,901**	**3,435,901**	**3,435,901**	**3,435,901**	**3,435,901**	**3,435,901**	**3,435,901**	**3,435,901**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**3,749,947**	**11,898,956**	-	-	-	-	-	-	-	-
CUMULATIVE NET CASH FLOWS			**2020$**	**1,659,962,471.213**	**(890,000)**	**(1,744,489)**	**(1,744,489)**	**(8,113,249)**	**(14,328,073)**	**(20,392,681)**	**(17,207,491)**	**(14,001,409)**	**(10,774,434)**	**(7,526,566)**	**(4,257,805)**	**(968,152)**	**2,342,393**	**5,673,831**	**9,026,162**	**12,399,386**	**15,793,502**	**19,208,511**	**22,644,412**	**26,080,314**	**29,516,215**	**32,952,117**	**36,388,018**	**39,823,920**	**43,259,821**	**46,695,722**	**50,445,670**	**54,195,617**	**57,945,565**	**61,695,512**	**65,445,460**	**69,195,407**	**72,945,354**	**76,695,302**	**80,445,249**	**92,344,205**	**92,344,205**	**92,344,205**	**92,344,205**	**92,344,205**	**92,344,205**	**92,344,205**	**92,344,205**	**92,344,205**
PAYBACK PERIOD			**years**	**12.0**	-	-	-	-	-	-	-	-	-	-	-	**12**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Base Year (for discounting)		2020	Calendar Year	Summary	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
Forecast period flag		-	Factor	36.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
Operations period flag		-	Factor	30.00	-	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
No-build end of useful life flag		-	Factor	-	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variable	**Source/Notes**		**Unit**																																													
Travel Time Savings - Auto			2020$ in 2020	4,443,506.87							232,627	230,419	227,505	223,986	219,953	215,490	210,669	205,556	200,211	194,686	189,026	183,274	177,466	165,856	155,005	144,865	135,388	126,531	118,253	110,517	103,287	96,530	90,215	84,313	78,797	73,642	68,824	64,322	60,114	56,181	-	-	-	-	-	-	-	-
Travel Time Savings - Truck			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Transit (in-vehicle)			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Transit (out-of-vehicle)			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Intercity Rail Passengers			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Travel Time Savings - Pedestrians/Bicyclists			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel Savings - Bus			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel Savings - Rail			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle O&M Costs - Auto			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle O&M Costs - Truck			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emissions - NOX			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emissions - PM2.5			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emissions - SOX			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emissions - CO2			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Fatal Crashes Reduction			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Injury Crashes			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Property Damage Only (PDO) Crashes			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - No Injury - O			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Possible Injury - C			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Non Incapacitating - B			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Incapacitating - A			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Killed - K			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Injured Severity Unknown			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety - Unknown If Injured			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Damage - Auto			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Damage - Trucks			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congestion - Auto			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congestion - Truck			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise - Auto			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise - Truck			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pedestrians - Sidewalk			2020$ in 2020	22,539.67	-	-	-	-	-	-	1,313	1,227	1,147	1,072	1,002	936	875	818	764	714	668	624	583	545	509	476	445	416	389	363	1,018	952	889	831	777	726	678	634	593	554	-	-	-	-	-	-	-	-
Pedestrians - Marked Crosswalk			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pedestrians - Signal			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cycling Facility Improvement			2020$ in 2020	24,559.04	-	-	-	-	-	-	1,850	1,729	1,616	1,510	1,411	1,319	1,232	1,152	1,077	1,006	940	879	821	768	717	670	627	586	547	511	478	447	417	390	365	341	319	298	278	260	-	-	-	-	-	-	-	-
Mortality Reduction Benefit - Walking			2020$ in 2020	1,773,120.89	-	-	-	-	-	-	103,318	96,559	90,242	84,338	78,821	73,664	68,845	64,341	60,132	56,198	52,521	49,085	45,874	42,873	40,068	37,447	34,997	32,708	30,568	28,568	80,098	74,858	69,960	65,384	61,106	57,109	53,373	49,881	46,618	43,568	-	-	-	-	-	-	-	-
Mortality Reduction Benefit - Cycling			2020$ in 2020	1,222,623.70	-	-	-	-	-	-	92,081	86,057	80,427	75,166	70,248	65,653	61,358	57,344	53,592	50,086	46,809	43,747	40,885	38,210	35,711	33,374	31,191	29,151	27,243	25,461	23,796	22,239	20,784	19,424	18,153	16,966	15,856	14,819	13,849	12,943	-	-	-	-	-	-	-	-
Emergency Response Benefit			2020$ in 2020	23,694,345.90	-	-	-	-	-	-	1,784,525	1,667,781	1,558,674	1,456,704	1,361,406	1,272,342	1,189,105	1,111,313	1,038,610	970,664	907,162	847,815	792,351	740,515	692,070	646,794	604,480	564,935	527,977	493,436	461,155	430,986	402,791	376,440	351,813	328,797	307,287	287,184	268,397	250,838	-	-	-	-	-	-	-	-
Facility Improvements - Bus Stop			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Facility Improvements - Light Rail/Streetcar Stop			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Facility Improvements - Rail Station			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transit Vehicle Amenities - Bus			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transit Vehicle Amenities - Light Rail/Streetcar			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transit Vehicle Amenities - Rail			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual Value			2020$ in 2020	763,260.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	763,260	-	-	-	-	-	-	-	-
Net O&M Costs			2020$ in 2020	(1,238,646.48)	-	-	-	-	-	-	(93,288)	(87,185)	(81,481)	(76,151)	(71,169)	(66,513)	(62,162)	(58,095)	(54,294)	(50,742)	(47,423)	(44,320)	(41,421)	(38,711)	(36,179)	(33,812)	(31,600)	(29,533)	(27,601)	(25,795)	(24,107)	(22,530)	(21,056)	(19,679)	(18,391)	(17,188)	(16,064)	(15,013)	(14,031)	(13,113)	-	-	-	-	-	-	-	-
Net R&R Costs			2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Costs			2020$ in 2020	15,952,634.31	890,000	798,588	-	5,198,805	4,741,259	4,323,982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL BASE BENEFITS			**2020$ in 2020**	**30,705,309.69**	**-**	**-**	**-**	**-**	**-**	**-**	**2,122,426**	**1,996,587**	**1,878,129**	**1,766,625**	**1,661,672**	**1,562,890**	**1,469,922**	**1,382,428**	**1,300,092**	**1,222,611**	**1,149,705**	**1,081,104**	**1,016,559**	**950,055**	**887,902**	**829,815**	**775,528**	**724,793**	**677,376**	**633,062**	**645,724**	**603,480**	**564,000**	**527,103**	**492,620**	**460,392**	**430,273**	**402,124**	**375,817**	**1,114,491**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
CUMULATIVE BASE BENEFITS			**2020$ in 2020**	**841,280,552.46**	**-**	**-**	**-**	**-**	**-**	**-**	**2,122,426**	**4,119,014**	**5,997,142**	**7,763,767**	**9,425,439**	**10,988,330**	**12,458,252**	**13,840,680**	**15,140,772**	**16,363,383**	**17,513,088**	**18,594,192**	**19,610,751**	**20,560,807**	**21,448,709**	**22,278,524**	**23,054,052**	**23,778,845**	**24,456,221**	**25,089,283**	**25,735,007**	**26,338,488**	**26,902,488**	**27,429,591**	**27,922,211**	**28,382,604**	**28,812,877**	**29,215,001**	**29,590,819**	**30,705,310**	**30,705,310**	**30,705,310**	**30,705,310**	**30,705,310**	**30,705,310**	**30,705,310**	**30,705,310**	**30,705,310**
TOTAL BASE COSTS			**2020$ in 2020**	**15,952,634.31**	**890,000**	**798,588**	**-**	**5,198,805**	**4,741,259**	**4,323,982**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
CUMULATIVE BASE COSTS			**2020$ in 2020**	**644,935,959.65**	**890,000**	**1,688,588**	**1,688,588**	**6,887,393**	**11,628,653**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**	**15,952,634**
NET CASH FLOWS			**2020$ in 2020**	**14,752,675.39**	**(890,000)**	**(798,588)**	**-**	**(5,198,805)**	**(4,741,259)**	**(4,323,982)**	**2,122,426**	**1,996,587**	**1,878,129**	**1,766,625**	**1,661,672**	**1,562,890**	**1,469,922**	**1,382,428**	**1,300,092**	**1,222,611**	**1,149,705**	**1,081,104**	**1,016,559**	**950,055**	**887,902**	**829,815**	**775,528**	**724,793**	**677,376**	**633,062**	**645,724**	**603,480**	**564,000**	**527,103**	**492,620**	**460,392**	**430,273**	**402,124**	**375,817**	**1,114,491**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
CUMULATIVE NET CASH FLOWS			**2020$ in 2020**	**196,344,592.81**	**(890,000)**	**(1,688,588)**	**(1,688,588)**	**(6,887,393)**	**(11,628,653)**	**(15,952,634)**	**(13,830,208)**	**(11,833,621)**	**(9,955,492)**	**(8,188,867)**	**(6,527,195)**	**(4,964,305)**	**(3,494,383)**	**(2,111,954)**	**(811,863)**	**410,749**	**1,560,453**	**2,641,558**	**3,658,117**	**4,608,172**	**5,496,075**	**6,325,890**	**7,101,418**	**7,826,211**	**8,503,587**	**9,136,649**	**9,782,373**	**10,385,854**	**10,949,854**	**11,476,957**	**11,969,577**	**12,429,969**	**12,860,242**	**13,262,367**	**13,638,184**	**14,752,675**	**14,752,675**	**14,752,675**	**14,752,675**	**14,752,675**	**14,752,675**	**14,752,675**	**14,752,675**	**14,752,675**

Variable	Value	Unit		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Forecast period flag	-	Factor	36.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Operations period flag	-	Factor	30.00	-	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
No-build end of useful life flag	-	Factor	-	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-

Variable	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Forecast period flag	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Operations period flag	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
No-build end of useful life flag	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Variable	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
Forecast period flag	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
Operations period flag	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
No-build end of useful life flag	-	-	-	-	-	-	-	-	-	-	-	-	-

Base Year (for valuation 2020 = 2020$s)	2020
Base Year (for discounting)	2020
Chart Label	2020$ Discounted to 2020

BENEFITS BY CATEGORY

Base

Variable	Value	Unit	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Travel Time	16,365,043	2020$ in 2020	-	-	-	-	-	-	349,110.68	370,003.31	390,895.94	411,788.57	432,681.20	453,573.84	474,466.47	495,359.10	516,251.73	537,144.37
Emissions	-	2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety	-	2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle O&M (includes fuel)	-	2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Damage	-	2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congestion	-	2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise	-	2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Active Transportation	181,825	2020$ in 2020	-	-	-	-	-	-	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83
Health	92,241,011	2020$ in 2020	-	-	-	-	-	-	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35
Facility Amenities	-	2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle Amenities	-	2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual Value	8,149,009	2020$ in 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Change in O&M / R&R Costs	(4,200,000)	2020$ in 2020	-	-	-	-	-	-	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)
Total	**112,736,886**	**2020$ in 2020**	**-**	**-**	**-**	**-**	**-**	**-**	**3,185,189.85**	**3,206,082.48**	**3,226,975.11**	**3,247,867.75**	**3,268,760.38**	**3,289,653.01**	**3,310,545.64**	**3,331,438.28**	**3,352,330.91**	**3,373,223.54**

Variable	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Travel Time	558,037.00	578,929.63	599,822.26	599,822.26	599,822.26	599,822.26	599,822.26	599,822.26	599,822.26	599,822.26	599,822.26	599,822.26	599,822.26	599,822.26	599,822.26
Emissions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle O&M (includes fuel)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Damage	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congestion	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Active Transportation	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	4,746.83	8,688.83	8,688.83	8,688.83	8,688.83	8,688.83
Health	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	2,971,332.35	3,281,436.35	3,281,436.35	3,281,436.35	3,281,436.35	3,281,436.35
Facility Amenities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle Amenities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Change in O&M / R&R Costs	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)
Total	**3,394,116.17**	**3,415,008.81**	**3,435,901.44**	**3,435,901.44**	**3,435,901.44**	**3,435,901.44**	**3,435,901.44**	**3,435,901.44**	**3,435,901.44**	**3,435,901.44**	**3,749,947.44**	**3,749,947.44**	**3,749,947.44**	**3,749,947.44**	**3,749,947.44**

Variable	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
Travel Time	599,822.26	599,822.26	599,822.26	599,822.26	599,822.26	-	-	-	-	-	-	-	-
Emissions	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle O&M (includes fuel)	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Damage	-	-	-	-	-	-	-	-	-	-	-	-	-
Congestion	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise	-	-	-	-	-	-	-	-	-	-	-	-	-
Active Transportation	8,688.83	8,688.83	8,688.83	8,688.83	8,688.83	-	-	-	-	-	-	-	-
Health	3,281,436.35	3,281,436.35	3,281,436.35	3,281,436.35	3,281,436.35	-	-	-	-	-	-	-	-
Facility Amenities	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle Amenities	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual Value	-	-	-	-	8,149,008.60	-	-	-	-	-	-	-	-
Change in O&M / R&R Costs	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	(140,000.00)	-	-	-	-	-	-	-	-
Total	**3,749,947.44**	**3,749,947.44**	**3,749,947.44**	**3,749,947.44**	**11,898,956.04**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Travel Time	14.52%	percent
Emissions	0.00%	percent
Safety	0.00%	percent
Vehicle O&M (includes fuel)	0.00%	percent
Pavement Damage	0.00%	percent
Congestion	0.00%	percent
Noise	0.00%	percent
Active Transportation	0.16%	percent
Health	81.82%	percent
Facility Amenities	0.00%	percent
Vehicle Amenities	0.00%	percent
Residual Value	7.23%	percent
Change in O&M / R&R Costs	-3.73%	percent
Total	100.00%	percent

TOTALS

	Value	Unit	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
TOTAL BENEFITS	112,736,886	2020$ in 2020	-	-	-	-	-	-	3,185,190	3,206,082	3,226,975	3,247,868	3,268,760	3,289,653	3,310,546	3,331,438	3,352,331	3,373,224
CUMULATIVE BENEFITS			-	-	-	-	-	-	3,185,190	6,391,272	9,618,247	12,866,115	16,134,876	19,424,529	22,735,074	26,066,513	29,418,843	32,792,067
TOTAL COSTS	20,392,681	2020$ in 2020	890,000	854,489	-	6,368,760	6,214,824	6,064,608	-	-	-	-	-	-	-	-	-	-
CUMULATIVE COSTS			890,000	1,744,489	1,744,489	8,113,249	14,328,073	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681

	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
TOTAL BENEFITS	3,394,116	3,415,009	3,435,901	3,435,901	3,435,901	3,435,901	3,435,901	3,435,901	3,435,901	3,435,901	3,749,947	3,749,947	3,749,947	3,749,947	3,749,947
CUMULATIVE BENEFITS	36,186,183	39,601,192	43,037,093	46,472,995	49,908,896	53,344,798	56,780,699	60,216,601	63,652,502	67,088,403	70,838,351	74,588,298	78,338,246	82,088,193	85,838,141
TOTAL COSTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMULATIVE COSTS	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681

	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
TOTAL BENEFITS	3,749,947	3,749,947	3,749,947	3,749,947	11,898,956	-	-	-	-	-	-	-	-
CUMULATIVE BENEFITS	89,588,088	93,338,035	97,087,983	100,837,930	112,736,886	-	-	-	-	-	-	-	-
TOTAL COSTS	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMULATIVE COSTS	20,392,681	20,392,681	20,392,681	20,392,681	20,392,681	-	-	-	-	-	-	-	-

SUMMARY METRICS

Benefit Cost Ratio	5.53	ratio
Net Present Value	92,344,205	2020$ in 2020
Internal Rate of Return	13%	percent
Payback Period	12	years

Variable	Value	Unit		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
Forecast period flag	-	Factor	36.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
Operations period flag	-	Factor	30.00	-	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
No-build end of useful life flag	-	Factor	-	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Base Year (for valuation 2020 = 2020$s)	2020																																														
Base Year (for discounting)	2020																																														
Chart Label	2020$ Discounted to 2020																																														
BENEFITS BY CATEGORY				**1.00**																																											
Base																																															
Travel Time	4,443,507	2020$ in 2020		-	-	-	-	-	-	232,627.18	230,419.46	227,505.00	223,985.70	219,953.18	215,489.66	210,668.79	205,556.42	200,211.32	194,685.84	189,026.44	183,274.29	177,465.76	165,855.85	155,005.47	144,864.93	135,387.78	126,530.64	118,252.93	110,516.76	103,286.69	96,529.62	90,214.60	84,312.71	78,796.92	73,641.98	68,824.28	64,321.76	60,113.79	56,181.12	-	-	-	-	-	-	-	-
Emissions	-	2020$ in 2020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety	-	2020$ in 2020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle O&M (includes fuel)	-	2020$ in 2020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Damage	-	2020$ in 2020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congestion	-	2020$ in 2020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise	-	2020$ in 2020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Active Transportation	47,099	2020$ in 2020		-	-	-	-	-	-	3,163.01	2,956.08	2,762.70	2,581.96	2,413.05	2,255.18	2,107.65	1,969.76	1,840.90	1,720.47	1,607.91	1,502.72	1,404.41	1,312.54	1,226.67	1,146.42	1,071.42	1,001.33	935.82	874.60	1,496.18	1,398.30	1,306.82	1,221.33	1,141.43	1,066.75	996.97	931.74	870.79	813.82	-	-	-	-	-	-	-	-
Health	26,690,090	2020$ in 2020		-	-	-	-	-	-	1,979,924.21	1,850,396.45	1,729,342.48	1,616,207.93	1,510,474.70	1,411,658.60	1,319,307.10	1,232,997.29	1,152,333.91	1,076,947.58	1,006,493.07	940,647.73	879,110.03	821,598.15	767,848.74	717,615.65	670,668.83	626,793.30	585,788.13	547,465.54	565,048.55	528,082.76	493,535.29	461,247.93	431,072.83	402,871.81	376,515.71	351,883.84	328,863.40	307,348.97	-	-	-	-	-	-	-	-
Facility Amenities	-	2020$ in 2020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle Amenities	-	2020$ in 2020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual Value	763,260	2020$ in 2020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	763,260.10	-	-	-	-	-	-	-	-
Change in O&M / R&R Costs	(1,238,646)	2020$ in 2020		-	-	-	-	-	-	(93,287.91)	(87,184.96)	(81,481.27)	(76,150.72)	(71,168.90)	(66,512.99)	(62,161.67)	(58,095.02)	(54,294.41)	(50,742.44)	(47,422.84)	(44,320.41)	(41,420.95)	(38,711.17)	(36,178.66)	(33,811.83)	(31,599.84)	(29,532.56)	(27,600.53)	(25,794.88)	(24,107.37)	(22,530.25)	(21,056.31)	(19,678.79)	(18,391.40)	(17,188.22)	(16,063.76)	(15,012.86)	(14,030.71)	(13,112.81)	-	-	-	-	-	-	-	-
Total	**30,705,310**	**2020$ in 2020**		**-**	**-**	**-**	**-**	**-**	**-**	**2,122,426.49**	**1,996,587.04**	**1,878,128.90**	**1,766,624.86**	**1,661,672.03**	**1,562,890.45**	**1,469,921.86**	**1,382,428.44**	**1,300,091.72**	**1,222,611.45**	**1,149,704.58**	**1,081,104.33**	**1,016,559.26**	**950,055.38**	**887,902.22**	**829,815.16**	**775,528.19**	**724,792.70**	**677,376.35**	**633,062.01**	**645,724.05**	**603,480.42**	**564,000.39**	**527,103.17**	**492,619.78**	**460,392.32**	**430,273.20**	**402,124.48**	**375,817.27**	**1,114,491.19**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Travel Time	14.47%	percent																																													
Emissions	0.00%	percent																																													
Safety	0.00%	percent																																													
Vehicle O&M (includes fuel)	0.00%	percent																																													
Pavement Damage	0.00%	percent																																													
Congestion	0.00%	percent																																													
Noise	0.00%	percent																																													
Active Transportation	0.15%	percent																																													
Health	86.92%	percent																																													
Facility Amenities	0.00%	percent																																													
Vehicle Amenities	0.00%	percent																																													
Residual Value	2.49%	percent																																													
Change in O&M / R&R Costs	-4.03%	percent																																													
Total	100.00%	percent																																													
TOTALS																																															
TOTAL BENEFITS	30,705,310	2020$ in 2020		-	-	-	-	-	-	2,122,426	1,996,587	1,878,129	1,766,625	1,661,672	1,562,890	1,469,922	1,382,428	1,300,092	1,222,611	1,149,705	1,081,104	1,016,559	950,055	887,902	829,815	775,528	724,793	677,376	633,062	645,724	603,480	564,000	527,103	492,620	460,392	430,273	402,124	375,817	1,114,491	-	-	-	-	-	-	-	-
CUMULATIVE BENEFITS				-	-	-	-	-	-	2,122,426	4,119,014	5,997,142	7,763,767	9,425,439	10,988,330	12,458,252	13,840,680	15,140,772	16,363,383	17,513,088	18,594,192	19,610,751	20,560,807	21,448,709	22,278,524	23,054,052	23,778,845	24,456,221	25,089,283	25,735,007	26,338,488	26,902,488	27,429,591	27,922,211	28,382,604	28,812,877	29,215,001	29,590,819	30,705,310	-	-	-	-	-	-	-	-
TOTAL COSTS	15,952,634	2020$ in 2020		890,000	798,588	-	5,198,805	4,741,259	4,323,982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMULATIVE COSTS				890,000	1,688,588	1,688,588	6,887,393	11,628,653	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	15,952,634	-	-	-	-	-	-	-	-
SUMMARY METRICS																																															
Benefit Cost Ratio	1.92	ratio																																													
Net Present Value	14,752,675	2020$ in 2020																																													
Internal Rate of Return	13%	percent																																													
Payback Period	12	years																																													

	Variable	Value	Unit
B/C Ratios			
	Benefit Cost Ratio	1.92	ratio
NPV			
	Net Present Value	$14,752,675	years
BENEFITS			
	Operations Period	30	years
	TOTAL BENEFITS	$30,705,310	2020$ in 2020
	Average Yearly Benefits	$1,023,510	2020$ in 2020
COSTS			
	Design/Construction Period	6	years
	TOTAL COSTS	$15,952,634	2020$ in 2020
	Average Yearly Costs	$2,658,772	2020$ in 2020

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		Calendar Year		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
Variable	**Source**	**Units**	**Value**																																												
DISCOUNT RATE																																															
Design/Construction Period	7.0%	rate																																													
Base Year (for discounting)	2020	year																																													
Discount Factor				1.000	0.935	0.873	0.816	0.763	0.713	0.666	0.623	0.582	0.544	0.508	0.475	0.444	0.415	0.388	0.362	0.339	0.317	0.296	0.277	0.258	0.242	0.226	0.211	0.197	0.184	0.172	0.161	0.150	0.141	0.131	0.123	0.115	0.107	0.100	0.094	0.088	0.082	0.076	0.071	0.067	0.062	0.058	0.055
Discount Rate for Long-term impacts of CO2 E	3.0%	percentage																																													
Base Year (for discounting)	2020	year																																													
Discount Factor				1.000	0.971	0.943	0.915	0.888	0.863	0.837	0.813	0.789	0.766	0.744	0.722	0.701	0.681	0.661	0.642	0.623	0.605	0.587	0.570	0.554	0.538	0.522	0.507	0.492	0.478	0.464	0.450	0.437	0.424	0.412	0.400	0.388	0.377	0.366	0.355	0.345	0.335	0.325	0.316	0.307	0.298	0.289	0.281
Discount Rate (Capital Costs)	4.1%	percentage																																													
Base Year (for discounting)	2020	year																																													
Discount Factor				1.000	0.961	0.923	0.887	0.852	0.819	0.787	0.756	0.727	0.698	0.671	0.644	0.619	0.595	0.572	0.549	0.528	0.507	0.487	0.468	0.450	0.432	0.415	0.399	0.383	0.368	0.354	0.340	0.327	0.314	0.302	0.290	0.279	0.268	0.257	0.247	0.237	0.228	0.219	0.211	0.202	0.194	0.187	0.180
TIME FLAGS																																															
Design/Construction Start Date	Project Defined	year	2020																																												
Project Opening	Project Defined	year	2026																																												
First Year Adjustment Factor	Project Defined	Adj. for pa	0																																												
Operations Period	User Defined	years	30																																												
No build end of useful life flag	Project defined	year	2025																																												
End Year		year	2055																																												
Start year flag		Factor	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
End year flag		Factor	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Forecast period flag		Factor	36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
Adjustment Factor		Factor		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operations period flag		Factor	30	-	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
No-build end of useful life flag		Factor		1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

					2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
	Forecast period flag	-	Factor	36.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
	Operations period flag	-	Factor	30.00	-	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
	Variable		**Unit**	**Value/Sum**																																												
GENERAL																																																
	If the residual value is not provided by the client use this tab to calculate the associated value for your project. Your resulting value should be incorporated in line 46 of the InpR_Facility tab.																																															
	Base Year (for valuation 2020 = 2020$s)		year	2020																																												
	Design/Construction Period		years	600.0%																																												
ITEM 1	*Movable Bridge*																																															
	Expected Lifespan of Asset		years	75																																												
	Last purchase year		year	2,025																																												
	Analysis End Year		year	2,055																																												
	Item Capital Cost		2020$	13,581,681																																												
	Time between const. and end of analysis		years	30																																												
	Depreciation Rate		2020$ / year	181,089																																												
	Total Depreciation		2020$	5,432,672																																												
	Remaining Capital Value Total, Undiscounted		2020$	8,149,009																																												
	Last Year Flag		flag	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Movable Bridge Remaining Capital Value In Final Year, PV Not Discou		2020$	8,149,009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	########	-	-	-	-	-	-	-	-
	Discount Factor		factor	0.094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0937	-	-	-	-	-	-	-	-
	Remaining Capital Value Total, Discounted		2020$ PV	763,260																																												
	Movable Bridge Remaining Capital Value In Final Year, PV Discounte		2020$	763,260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	763,260	-	-	-	-	-	-	-	-
ITEM 2	*Enter Asset Name*																																															
	Expected Lifespan of Asset		years	-																																												
	Last purchase year		year	-																																												
	Analysis End Year		year	2,055																																												
	Item Capital Cost		2020$	-																																												
	Time between const. and end of analysis		years	2,055																																												
	Depreciation Rate		2020$ / year	-																																												
	Total Depreciation		2020$	-																																												
	Remaining Capital Value Total, Undiscounted		2020$	-																																												
	Last Year Flag		flag	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Not Dis		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Discount Factor		factor	0.094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0937	-	-	-	-	-	-	-	-
	Remaining Capital Value Total, Discounted		2020$ PV	-																																												
	Enter Asset Name Remaining Capital Value In Final Year, PV Discoun		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITEM 3	*Enter Asset Name*																																															
	Expected Lifespan of Asset		years																																													
	Last purchase year		year	-																																												
	Analysis End Year		year	2,055																																												
	Item Capital Cost		2020$	-																																												
	Time between const. and end of analysis		years	2,055																																												
	Depreciation Rate		2020$ / year	-																																												
	Total Depreciation		2020$	-																																												
	Remaining Capital Value Total, Undiscounted		2020$	-																																												
	Last Year Flag		flag	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Not Dis		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Discount Factor		factor	0.094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0937	-	-	-	-	-	-	-	-
	Remaining Capital Value Total, Discounted		2020$ PV	-																																												
	Enter Asset Name Remaining Capital Value In Final Year, PV Discoun		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITEM 4	*Enter Asset Name*																																															
	Expected Lifespan of Asset		years	-																																												
	Last purchase year		year	-																																												
	Analysis End Year		year	2,055																																												
	Item Capital Cost		2020$	-																																												
	Time between const. and end of analysis		years	2,055																																												
	Depreciation Rate		2020$ / year	-																																												
	Total Depreciation		2020$	-																																												
	Remaining Capital Value Total, Undiscounted		2020$	-																																												
	Last Year Flag		flag	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Not Dis		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Discount Factor		factor	0.094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0937	-	-	-	-	-	-	-	-
	Remaining Capital Value Total, Discounted		2020$ PV	-																																												
	Enter Asset Name Remaining Capital Value In Final Year, PV Discoun		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITEM 5	*Enter Asset Name*																																															
	Expected Lifespan of Asset		years	-																																												
	Last purchase year		year	-																																												
	Analysis End Year		year	2,055																																												
	Item Capital Cost		2020$	-																																												
	Time between const. and end of analysis		years	2,055																																												
	Depreciation Rate		2020$ / year	-																																												
	Total Depreciation		2020$	-																																												
	Remaining Capital Value Total, Undiscounted		2020$	-																																												
	Last Year Flag		flag	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Not Dis		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Discount Factor		factor	0.094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0937	-	-	-	-	-	-	-	-
	Remaining Capital Value Total, Discounted		2020$ PV	-																																												
	Enter Asset Name Remaining Capital Value In Final Year, PV Discoun		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL																																																
	Movable Bridge Remaining Capital Value In Final Year, PV Not Discou		2020$	8,149,009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	########	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Not Dis		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Not Dis		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Not Dis		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Not Dis		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Residual Value, PV Not Discounted		**2020$**	**8,149,009**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**########**	-	-	-	-	-	-	-	-
	Movable Bridge Remaining Capital Value In Final Year, PV Discounte		2020$	763,260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	763,260	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Discoun		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Discoun		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Discoun		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Enter Asset Name Remaining Capital Value In Final Year, PV Discoun		2020$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Residual Value, PV Discounted		**2020$**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-