

# 20-10255 200 N Las Posas Road

Last Updated: 4/1/2022

Compression-Ignition Engine Brake-Specific Fuel Consumption (BSFC) Factors [1]:

HP: 0 to 100	0.0588	HP: Greater than 100	0.0529
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*Values above are expressed in gallons per horsepower-hour/BSFC.*

CONSTRUCTION EQUIPMENT						
Construction Equipment	#	Hours per		Load Factor	Construction Phase	Fuel Used (gallons)
		Day	Horsepower			
Graders	1	8	187	0.41	Site Preparation Phase	65
Tractors/Loaders/Backhoes	1	8	97	0.37	Site Preparation Phase	34
Graders	1	8	187	0.41	Grading Phase	130
Rubber Tired Dozers	1	8	247	0.4	Grading Phase	167
Tractors/Loaders/Backhoes	2	7	97	0.37	Grading Phase	118
Cranes	1	6	231	0.29	Building Construction Phase	4,249
Forklifts	1	6	89	0.2	Building Construction Phase	1,255
Generator Sets	1	8	84	0.74	Building Construction Phase	5,844
Tractors/Loaders/Backhoes	1	6	97	0.37	Building Construction Phase	2,531
Welders	3	8	46	0.45	Building Construction Phase	5,839
Air Compressors	1	6	78	0.48	Architectural Coating Phase	132
Cement and Mortar Mixers	1	6	9	0.56	Paving Phase	18
Pavers	1	6	130	0.42	Paving Phase	173
Paving Equipment	1	8	132	0.36	Paving Phase	201
Rollers	1	7	80	0.38	Paving Phase	125
Tractors/Loaders/Backhoes	1	8	97	0.37	Paving Phase	169
<b>Total Fuel Used</b>						<b>21,050</b>
						(Gallons)

Construction Phase	Days of Operation
Site Preparation Phase	2
Grading Phase	4
Building Construction Phase	200
Paving Phase	10
Architectural Coating Phase	10
Total Days	226

WORKER TRIPS				
Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Site Preparation Phase	25.3	8	10.8	7
Grading Phase	25.3	10	10.8	17
Building Construction Phase	25.3	42	10.8	3,586
Paving Phase	25.3	15	10.8	64
Architectural Coating Phase	25.3	8	10.8	34
<b>Fuel</b>				<b>3,708</b>

HAULING AND VENDOR TRIPS				
Trip Class	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
HAULING TRIPS				
Site Preparation Phase	7.6	0.0	20.0	0

Grading Phase	7.6	1,027	20.0	2,703
Building Construction Phase	7.6	0.0	20.0	0
Paving Phase	7.6	0.0	20.0	0
Architectural Coating Phase	7.6	0.0	20.0	0

**Fuel 2,703**

**VENDOR TRIPS**

Site Preparation Phase	7.6	0	7.3	0
Grading Phase	7.6	0	7.3	0
Building Construction Phase	7.6	17	7.3	3,266
Paving Phase	7.6	0	7.3	0
Architectural Coating Phase	7.6	0	7.3	0

**Fuel 3,266**

<b>Total Gasoline Consumption (gallons)</b>	<b>3,708</b>
<b>Total Diesel Consumption (gallons)</b>	<b>27,018</b>

**Sources:**

[1] United States Environmental Protection Agency. 2021. *Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES3.0.2*. September. Available at: <https://www.epa.gov/system/files/documents/2021-08/420r21021.pdf>.

[2] United States Department of Transportation, Bureau of Transportation Statistics. 2022. *National Transportation Statistics*. Available at: <https://www.bts.gov/topics/national-transportation-statistics>.

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Populate one of the following tables (Leave the other blank):

<b>Annual VMT</b>	<b>OR</b>	<b>Daily Vehicle Trips</b>
Annual VMT: 897,941		Daily Vehicle Trips: Average Trip Distance:

Fleet Class	Fleet Mix	Fuel Economy (MPG) [1]	
Light Duty Auto (LDA)	0.553514	Passenger Vehicles	25.3
Light Duty Truck 1 (LDT1)	0.062792	Light-Med Duty Trucks	18.2
Light Duty Truck 2 (LDT2)	0.181046	Heavy Trucks/Other	7.6
Medium Duty Vehicle (MDV)	0.120736	Motorcycles	44
Light Heavy Duty 1 (LHD1)	0.024419		
Light Heavy Duty 2 (LHD2)	0.006214		
Medium Heavy Duty (MHD)	0.008493		
Heavy Heavy Duty (HHD)	0.006184		
Other Bus (OBUS)	0.000715		
Urban Bus (UBUS)	0.000556		
Motorcycle (MCY)	0.029185		
School Bus (SBUS)	0.000982		
Motorhome (MH)	0.005164		

Fleet Mix					
Vehicle Type	Percent	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Passenger Vehicles	55.35%	Gasoline	497,023	0.00	19,645
Light-Medium Duty Trucks	36.46%	Gasoline	327,366	0.00	17,987
Heavy Trucks/Other	5.27%	Diesel	47,346	0.00	6,230
Motorcycle	2.92%	Gasoline	26,206	0.00	596

<b>Total Gasoline Consumption (gallons)</b>	<b>38,228</b>
<b>Total Diesel Consumption (gallons)</b>	<b>6,230</b>

**Sources:**

[1] United States Department of Transportation, Bureau of Transportation Statistics. 2022. National Transportation Statistics. Available at: <https://www.bts.gov/topics/national-transportation-statistics>.