

Municipality:

Bernards Township

complete applicable cells highlighted in yellow, grey cells contain formulas

**STEP 1: Establish a Baseline Year**

Baseline Year Selected: 2015

**STEP 2: Scope 1 Emissions from Stationary Fuel Consumption in Baseline Year**

Municipal Operation - Natural Gas	Total Therms	converted to Million BTU	CO2 Emissions (lbs)	CO2 (Metric Tons CO2e)	Emissions (Metric Tons)	CH4 (Metric Tons CO2e)	N2O Emissions (Metric Tons)	N2O (Metric Tons CO2e)	Total Emissions (Metric Tons CO2e)
Building & Facilities	61149	6114.9446	715937.7138	324.7441206	0.030574723	0.764368075	0.000611494	0.18222535	325.690714
Street Lights & Traffic Signals	0	0	0	0	0	0	0	0	0
Water & Wastewater Treatment Facilities	11305	1130.5263	132362.0192	60.03844567	0.005652632	0.141315788	0.000113053	0.03368968	60.21345114
Other		0	0	0	0	0	0	0	0
<i>Natural Gas Total</i>	<i>72454.709</i>	<i>7245.4709</i>	<i>848299.733</i>	<i>384.7825663</i>	<i>0.036227355</i>	<i>0.905683863</i>	<i>0.000724547</i>	<i>0.21591503</i>	<i>385.9041652</i>

Municipal Operation - Heating Oil	Total Gallons	converted to Million BTU	CO2 Emissions (lbs)	CO2 (Metric Tons CO2e)	Emissions (Metric Tons)	CH4 (Metric Tons CO2e)	N2O Emissions (Metric Tons)	N2O (Metric Tons CO2e)	Total Emissions (Metric Tons CO2e)
Building & Facilities	0	0	0	0	0	0	0	0	0
Street Lights & Traffic Signals	0	0	0	0	0	0	0	0	0
Water & Wastewater Treatment Facilities	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
<i>Heating Oil Total</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>

Municipal Operation - Other Fuel 1 <i>specify fuel (coal, diesel, etc)</i>	Total (specify unit)	convert to Million BTU	CO2 Emissions (lbs)	CO2 (Metric Tons CO2e)	Emissions (Metric Tons)	CH4 (Metric Tons CO2e)	N2O Emissions (Metric Tons)	N2O (Metric Tons CO2e)	Total Emissions (Metric Tons CO2e)
Building & Facilities	0			0		0		0	0
Street Lights & Traffic Signals	0			0		0		0	0
Water & Wastewater Treatment Facilities	0			0		0		0	0
Other	0			0		0		0	0
<i>Other Fuel 1 Total</i>	<i>0</i>			<i>0</i>		<i>0</i>		<i>0</i>	<i>0</i>

Municipal Operation - Other Fuel 2 <i>specify fuel (coal, diesel, etc)</i>	Total (specify unit)	convert to Million BTU	CO2 Emissions (lbs)	CO2 (Metric Tons CO2e)	Emissions (Metric Tons)	CH4 (Metric Tons CO2e)	N2O Emissions (Metric Tons)	N2O (Metric Tons CO2e)	Total Emissions (Metric Tons CO2e)
Building & Facilities	0			0		0		0	0
Street Lights & Traffic Signals	0			0		0		0	0
Water & Wastewater Treatment Facilities	0			0		0		0	0
Other	0			0		0		0	0
<i>Other Fuel 2 Total</i>	<i>0</i>			<i>0</i>		<i>0</i>		<i>0</i>	<i>0</i>

**STEP 3: Scope 2 Emissions from Purchased or Acquired Electricity in Baseline Year**

Municipal Operation - Electricity	Total Kwh	Total MWh	CO2 Emissions (lbs)	CO2 (Metric Tons CO2e)					Total Emissions (Metric Tons CO2e)
Building & Facilities	1,445,988	1,445.987671	1,897,135.824	860.5269606					860.5269606
Street Lights & Traffic Signals	339,342	339.342	445,216.704	201.9470469					201.9470469
Water & Wastewater Treatment Facilities	1,766,886	1,766.886000	2,318,154.432	1,051.4979278					1051.497928
Other	0	0	0	0					0
<i>Electricity Total</i>	<i>3,552,216</i>	<i>3,552.215671</i>	<i>4,660,506.960</i>	<i>2,113.97194</i>					<i>2113.971935</i>

\* includes CO2, CH4 and N20 emissions preconverted to carbon dioxide equivalents (CO2e)

**STEP 4: Scope 1 Emissions from Mobile Fuel Combustion in Baseline Year**

Municipal Operation - Vehicle Emissions CO2 emissions by fuel usage	Total Gallons	CO2 Emissions (lbs fuel unit)	CO2 Emissions (lbs)	CO2 (Metric Tons CO2e)					
Motor Gasoline	44,984	19.54	878987.36	398.7022499					
Diesel Fuel	22,097	22.37	494309.89	224.2153576					
Compressed Natural Gas	-	120.36	0	0					
Small Equipment- Motor Gasoline	1,783	19.54	34839.82	15.80308802					
Small Equipment- Diesel	4,283	22.37	95810.71	43.45903864					
Other 3 (specify fuel)			0	0					

Municipal Operation - Vehicle Emissions CH4 and N20 emissions by mileage	Total Mileage	Emissions (Metric Tons)	CH4 (Metric Tons CO2e)	N20 Emissions (Metric Tons)	N20 (Metric Tons CO2e)	Total Emissions (Metric Tons CO2e)		
Totals from <i>Worksheet 3, "Vehicle CH4 &amp; N20"</i>	691,767	0.009889044	0.247226093	0.005687968	1.69501446			
<i>Vehicle Fuel Total</i>		<i>1503947.78</i>	<i>682.1797342</i>	<i>0.009889044</i>	<i>0.247226093</i>	<i>0.005687968</i>	<i>1.69501446</i>	<i>684.1219747</i>

**STEP 5: (Optional) Emissions from Waste Related Activities in Baseline Year**

GHG Emissions from Baseline Waste Management (MtCO2e) calculated at		Total Emissions (Metric Tons CO2e)
<i>Waste Management Total</i>	<a href="http://www.epa.gov/climatechange/wycd/waste/calculators/Warm_Form.html">http://www.epa.gov/climatechange/wycd/waste/calculators/Warm_Form.html</a>	

**TOTALS**

<b>MUNICIPAL CARBON FOOTPRINT</b>	<b>3183.998075</b>
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