

Municipality:

Bernards Township

complete applicable cells highlighted in yellow, grey cells contain formulas

STEP 1: Establish a Baseline Year

Baseline Year Selected:

2008

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	58,512	5851.2	685058.496	310.737533	0.029256	0.7314	0.00058512	0.17436576	311.6432986
Street Lights & Traffic Signals		0	0	0	0	0	0	0	0
Water & Wastewater Treatment Facilities	12,000	1200	140496	63.72796	0.006	0.15	0.00012	0.03576	63.91371998
Other		0	0	0	0	0	0	0	0
<i>Natural Gas Total</i>	70,512	7051.2	825554.496	374.465493	0.035256	0.8814	0.00070512	0.21012576	375.5570186

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
Street Lights & Traffic Signals		0	0	0	0	0	0	0	0
Water & Wastewater Treatment Facilities		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
<i>Heating Oil Total</i>	0	0	0	0	0	0	0	0	0

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
Street Lights & Traffic Signals				0		0		0	0
Water & Wastewater Treatment Facilities				0		0		0	0
Other				0		0		0	0
<i>Other Fuel 1 Total</i>	0			0		0		0	0

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
Street Lights & Traffic Signals				0		0		0	0
Water & Wastewater Treatment Facilities				0		0		0	0
Other				0		0		0	0
<i>Other Fuel 2 Total</i>	0			0		0		0	0

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

Municipal Operation - Electricity	Total Kwh	Total MWh	CO2e Emissions (lbs) *	CO2e (Metric Tons)					Total Emissions (Metric Tons CO2e)
Building & Facilities	1,810,456	1810.456	2375318.272	1077.42703					1077.427028
Street Lights & Traffic Signals	372,336	372.336	488504.832	221.582226					221.5822257
Water & Wastewater Treatment Facilities	2,618,654	2618.654	3435674.048	1558.39667					1558.396668
Other		0	0	0					0
<i>Electricity Total</i>	<i>4,801,446</i>	<i>4801.446</i>	<i>6299497.152</i>	<i>2857.40592</i>					<i>2857.405922</i>

* includes CO2, CH4 and N2O 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 Fuel Units	CO2 Emissions (lbs/fuel unit)	CO2 Emissions (lbs)	CO2 (Metric Tons CO2e)					
Motor Gasoline (per gallon)	62,466	19.54	1220592.479	553.651838					
Diesel Fuel (per gallon)	27,307	22.37	610862.7351	277.082877					
Compressed Natural Gas (per 1000 cubic feet)		120.36	0	0					
Small Equipment-Motor Gasoline (per gallon)	1,243	19.54	24286.0706	11.0159843	other fuels see http://www.eia.doe.gov/oiaf/1605/excel/Fuel Emission Factors.xls				
Small Equipment-Diesel (per gallon)	1,413	22.37	31611.047	14.3385402					
Other 3 (specify fuel and units)			0	0					

Municipal Operation - Vehicle Emissions CH4 and N2O emissions by mileage	Total Mileage	Emissions (Metric Tons)	CH4 (Metric Tons CO2e)	N2O Emissions (Metric Tons)	N2O (Metric Tons CO2e)	Total Emissions (Metric Tons CO2e)		
Totals from <i>Worksheet 3, "Vehicle CH4 & N2O"</i>	773,787	0.013297824	0.332445592	0.01056887	3.14952325			
<i>Vehicle Fuel Total</i>		<i>1887352.332</i>	<i>856.08924</i>	<i>0.013297824</i>	<i>0.332445592</i>	<i>0.01056887</i>	<i>3.14952325</i>	<i>859.5712088</i>

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

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

TOTALS

	Total Emissions (Metric Tons CO2e)
MUNICIPAL CARBON FOOTPRINT	4092.534149