

Selected WebFIRE Factors
03 Jun 2015

SCC i	20300301		
Level 1 i	Internal Combustion Engines		
Level 2 i	Commercial/Institutional		
Level 3 i	Gasoline		
Level 4 i	Reciprocating		
POLLUTANT i	Carbon dioxide	NEI CO2 i	CAS 124- 38-9 i

Primary Control [i](#) UNCONTROLLED

Emission	1.950E4 Lb per 1000 Gallons Gasoline
Factor i	Burned
Quality i	B Emissions Factors Applicability
References	EPA. October 1996. Section 3.3, Gasoline and Diesel Industrial Engines. In: Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition, AP-42. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.
AP 42 Section Formula	Chapter 3 Section 3.3
Notes	The heating value for gasoline fuel is 126,000 BTU/gallon. This was used to convert from lbs/MMBTU.

SCC i	20300301		
Level 1 i	Internal Combustion Engines		
Level 2 i	Commercial/Institutional		
Level 3 i	Gasoline		
Level 4 i	Reciprocating		
POLLUTANT i	Carbon monoxide	NEI CO i	CAS 630- 08-0 i

Primary Control [i](#) UNCONTROLLED

Emission	7.900E3 Lb per 1000 Gallons Gasoline
Factor i	Burned
Quality i	D Emissions Factors Applicability
References	EPA. October 1996. Section 3.3, Gasoline and Diesel Industrial Engines. In: Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition, AP-42. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.
AP 42 Section Formula	Chapter 3 Section 3.3
Notes	The heating value for gasoline fuel is 126,000 BTU/gallon. This was used to convert from lbs/MMBTU.

SCC i	20300301		
Level 1 i	Internal Combustion Engines		
Level 2 i	Commercial/Institutional		
Level 3 i	Gasoline		
Level 4 i	Reciprocating		
POLLUTANT i	Nitrogen oxides (NO _x)	NEI NO _x i	CAS i
Primary Control i	UNCONTROLLED		
Emission	2.050E2 Lb per 1000 Gallons Gasoline		
Factor i	Burned		
Quality i	D Emissions Factors Applicability		
References	EPA. October 1996. Section 3.3, Gasoline and Diesel Industrial Engines. In: Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition, AP-42. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.		
AP 42 Section	Chapter 3 Section 3.3		
Formula			
Notes	The heating value for gasoline fuel is 126,000 BTU/gallon. This was used to convert from lbs/MMBTU.		

SCC i	20300301		
Level 1 i	Internal Combustion Engines		
Level 2 i	Commercial/Institutional		
Level 3 i	Gasoline		
Level 4 i	Reciprocating		
POLLUTANT i	PM10, filterable	NEI PM10-FIL i	CAS i
Primary Control i	UNCONTROLLED		
Emission	1.260E1 Lb per 1000 Gallons Gasoline		
Factor i	Burned		
Quality i	D Emissions Factors Applicability		
References	EPA. October 1996. Section 3.3, Gasoline and Diesel Industrial Engines. In: Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition, AP-42. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.		
AP 42 Section	Chapter 3 Section 3.3		
Formula			
Notes	All particulate is assumed to be <= 1um in size. The heating value for gasoline fuel is 126,000 BTU/gallon. This was used to convert from lbs/MMBTU.		

SCC [i](#) 20300301

Level 1 [i](#) Internal Combustion Engines
 Level 2 [i](#) Commercial/Institutional
 Level 3 [i](#) Gasoline
 Level 4 [i](#) Reciprocating

POLLUTANT PM2.5, filterable [i](#) NEI PM25-FIL [i](#) CAS [i](#)
 Primary Control [i](#) UNCONTROLLED

Emission 1.260E1 Lb per 1000 Gallons Gasoline

Factor [i](#) Burned

Quality [i](#) D [Emissions Factors Applicability](#)

References EPA. October 1996. Section 3.3, Gasoline and Diesel Industrial Engines. In: Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition, AP-42. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.

AP 42 Section [Chapter 3](#) [Section 3.3](#)

Formula

Notes All particulate is assumed to be <= 1um in size. The heating value for gasoline fuel is 126,000 BTU/gallon. This was used to convert from lbs/MMBTU.

SCC [i](#) 20300301

Level 1 [i](#) Internal Combustion Engines
 Level 2 [i](#) Commercial/Institutional
 Level 3 [i](#) Gasoline
 Level 4 [i](#) Reciprocating

POLLUTANT Sulfur oxides (SOx) [i](#) NEI [i](#) CAS [i](#)
 Primary Control [i](#) UNCONTROLLED

Emission 1.060E1 Lb per 1000 Gallons Gasoline

Factor [i](#) Burned

Quality [i](#) D [Emissions Factors Applicability](#)

References EPA. October 1996. Section 3.3, Gasoline and Diesel Industrial Engines. In: Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition, AP-42. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.

AP 42 Section [Chapter 3](#) [Section 3.3](#)

Formula

Notes The heating value for gasoline fuel is 126,000 BTU/gallon. This was used to convert from lbs/MMBTU.

SCC [i](#) 20300301

Level 1 [i](#) Internal Combustion Engines
 Level 2 [i](#) Commercial/Institutional
 Level 3 [i](#) Gasoline

Level 4 i	Reciprocating		
POLLUTANT i	Total organic compounds (TOC)	NEI i	CAS i
Primary Control i	UNCONTROLLED		
Emission Factor i	3.820E2 Lb per 1000 Gallons Gasoline		
Quality i	D Emissions Factors Applicability		
References	EPA. October 1996. Section 3.3, Gasoline and Diesel Industrial Engines. In: Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition, AP-42. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.		
AP 42 Section	Chapter 3 Section 3.3		
Formula			
Notes	Emission factor represents the sum of exhaust, evaporative, crankcase, and refueling emissions. The heating value for gasoline fuel is 126,000 BTU/gallon. This was used to convert from lbs/MMBTU.		

SCC i	20400401		
Level 1 i	Internal Combustion Engines		
Level 2 i	Engine Testing		
Level 3 i	Reciprocating Engine		
Level 4 i	Gasoline		
POLLUTANT i	Volatile organic compounds (VOC)	NEI VOC i	CAS i
Primary Control i	UNCONTROLLED		
Emission Factor i	1.480E2 Lb per 1000 Gallons Gasoline Burned		
Quality i	U Emissions Factors Applicability		
References			
AP 42 Section			
Formula			
Notes			