

Ubicación actividades	Equipo	Ruido db(A)	Intensidad	Suma	Nivel Equiv Total	Nivel Equiv promedio	Nivel de ruido de estudio
Construcción patio taller	Excavadora	80	100000000,00	100000000,00	80,00	80,00	87,29
	Volqueta	85	316227766,02	416227766,02	86,19	83,18	
	Piloteadoras CMC	95	#####	3578505426,19	95,54	90,77	
	Excavadora	80	100000000,00	3678505426,19	95,66	89,64	
	Volqueta	85	316227766,02	3994733192,20	96,01	89,03	
	Camión-grúa	85	316227766,02	4310960958,22	96,35	88,56	
	Excavadora	80	100000000,00	4410960958,22	96,45	87,99	
	Volqueta	85	316227766,02	4727188724,24	96,75	87,72	
	Tren de asfaltado	85	316227766,02	5043416490,25	97,03	87,48	
	Pavimentadora de asfalto	85	316227766,02	5359644256,27	97,29	87,29	
Construcción de pilotes	Perforadora rotatoria	85	316227766,02	316227766,02	85,00	85,00	84,33
	Perforadora rotatoria	85	316227766,02	632455532,03	88,01	85,00	
	Grúa móvil	85	316227766,02	948683298,05	89,77	85,00	
	Grúa sobre orugas	85	316227766,02	1264911064,07	91,02	85,00	
	Excavadora	80	100000000,00	1364911064,07	91,35	84,36	
	Volqueta	85	316227766,02	1681138830,08	92,26	84,47	
	Cama baja	85	316227766,02	1997366596,10	93,00	84,55	
	Cama baja	85	316227766,02	2313594362,12	93,64	84,61	
	Cargador	80	100000000,00	2413594362,12	93,83	84,28	
	Carrotanque para agua	85	316227766,02	2729822128,13	94,36	84,36	
	Carrotanque para combustible	85	316227766,02	3046049894,15	94,84	84,42	
	Grúa de pórtico	85	316227766,02	3362277660,17	95,27	84,47	
	Vibro compactador	82	158489319,25	3520766979,41	95,47	84,33	
Estructura viaducto	Vigas lanzadoras	80	100000000,00	100000000,00	80,00	80,00	84,01
	Grúa de pórtico	85	316227766,02	416227766,02	86,19	83,18	
	Planta eléctrica	82	158489319,25	574717085,26	87,59	82,82	
	Transformador	82	158489319,25	733206404,51	88,65	82,63	
	Martillo vibratorio	88	630957344,48	1364163748,99	91,35	84,36	
	Excavadora	80	100000000,00	1464163748,99	91,66	83,87	
	Volqueta	85	316227766,02	1780391515,01	92,51	84,05	
	Grúa móvil	85	316227766,02	2096619281,02	93,22	84,18	
	Camión-grúa	85	316227766,02	2412847047,04	93,83	84,28	
	Autobomba para concreto	82	158489319,25	2571336366,29	94,10	84,10	
	Cama baja	85	316227766,02	2887564132,30	94,61	84,19	
	Bomba de succión	74	25118864,32	2912682996,62	94,64	83,85	
	Camión rociador / carrotanque	85	316227766,02	3228910762,63	95,09	83,95	
	Planta eléctrica	82	158489319,25	3387400081,88	95,30	83,84	
	Torre grúa	85	316227766,02	3703627847,90	95,69	83,93	
	Torre grúa	85	316227766,02	4019855613,91	96,04	84,00	
	Grúa sobre orugas	85	316227766,02	4336083379,93	96,37	84,07	

Construcción de estaciones	Grúa sobre orugas	85	316227766,02	4652311145,95	96,68	84,12	83,13
	Grúa sobre orugas	85	316227766,02	4968538911,96	96,96	84,17	
	Transformador	82	158489319,25	5127028231,21	97,10	84,09	
	Transformador	82	158489319,25	5285517550,46	97,23	84,01	
	Grúa sobre orugas	85	316227766,02	316227766,02	85,00	85,00	
	Camión-grúa	85	316227766,02	632455532,03	88,01	85,00	
	Camión-grúa	85	316227766,02	948683298,05	89,77	85,00	
	Torre-grúa	85	316227766,02	1264911064,07	91,02	85,00	
	Excavadora	80	100000000,00	1364911064,07	91,35	84,36	
	Bulldozer	85	316227766,02	1681138830,08	92,26	84,47	
	Motoniveladora	80	100000000,00	1781138830,08	92,51	84,06	
	Cama baja	85	316227766,02	2097366596,10	93,22	84,19	
	Montacargas	80	100000000,00	2197366596,10	93,42	83,88	
	Autobomba de concreto	82	158489319,25	2355855915,35	93,72	83,72	
	Camioneta de platón	55	316227,77	2356172143,11	93,72	83,31	
	Vehículo utilitario deportivo (SUV)	55	316227,77	2356488370,88	93,72	82,93	
	Carrotanque	85	316227766,02	2672716136,90	94,27	83,13	
	Planta de mezcla de asfalto	85	316227766,02	316227766,02	85,00	85,00	83,35
	Regla vibratoria asfalto	80	100000000,00	416227766,02	86,19	83,18	
	Pavimentadora de asfalto	80	100000000,00	516227766,02	87,13	82,36	
	Rodillo vibratorio doble	85	316227766,02	832455532,03	89,20	83,18	
	Rodillo vibratorio doble	85	316227766,02	1148683298,05	90,60	83,61	
	Compactador de ruedas	82	158489319,25	1307172617,30	91,16	83,38	
	Compactador de ruedas	82	158489319,25	1465661936,54	91,66	83,21	
	Compactador de ruedas	82	158489319,25	1624151255,79	92,11	83,08	
	Cargador	82	158489319,25	1782640575,03	92,51	82,97	
	Vehículo regador para imprimación	85	316227766,02	2098868341,05	93,22	83,22	
	Máquina para lechada asfáltica	80	100000000,00	2198868341,05	93,42	83,01	
	Volqueta	85	316227766,02	2515096107,07	94,01	83,21	
	Excavadora	80	100000000,00	2615096107,07	94,17	83,04	
	Grúa sobre orugas	85	316227766,02	2931323873,09	94,67	83,21	
	Cama baja	85	316227766,02	3247551639,10	95,12	83,35	

Ubicación actividades	Equipo	Modelo	Cantidades	Ruido db(A)	Intensidad	Suma	Nivel Equiv Total	Nivel Equiv promedio	Nivel de ruido de estudio
Construcción patio taller	Excavadora	PC220	2	80	100000000,00	100000000,00	80,00	80,00	87,29
	Volqueta	15T	30	85	316227766,02	416227766,02	86,19	83,18	
	Piloteadoras CMC	---	3	95	#####	#####	95,54	90,77	
	Excavadora	PC220	6	80	100000000,00	#####	95,66	89,64	
	Volqueta	15T	100	85	316227766,02	#####	96,01	89,03	
	Camión-grúa	50T	3	85	316227766,02	#####	96,35	88,56	
	Excavadora	PC220	2	80	100000000,00	#####	96,45	87,99	
	Volqueta	30T	10	85	316227766,02	#####	96,75	87,72	
	Tren de asfaltado	---	1	85	316227766,02	#####	97,03	87,48	
Construcción de pilotes	Pavimentadora de asfalto	---	1	85	316227766,02	#####	97,29	87,29	84,33
	Perforadora rotatoria	SR360R	6	85	316227766,02	316227766,02	85,00	85,00	
	Perforadora rotatoria	SR265R	7	85	316227766,02	632455532,03	88,01	85,00	
	Grúa móvil	50T	6	85	316227766,02	948683298,05	89,77	85,00	
	Grúa sobre orugas	75T	7	85	316227766,02	#####	91,02	85,00	
	Excavadora	220	6	80	100000000,00	#####	91,35	84,36	
	Volqueta	20m³	6	85	316227766,02	#####	92,26	84,47	
	Cama baja	12m/30t	7	85	316227766,02	#####	93,00	84,55	
	Cama baja	---	2	85	316227766,02	#####	93,64	84,61	
	Cargador	---	13	80	100000000,00	#####	93,83	84,28	
	Carrotanque para agua	10 m³	6	85	316227766,02	#####	94,36	84,36	
	Carrotanque para combustible	10 m³	2	85	316227766,02	#####	94,84	84,42	
	Grúa de pórtico	10t	2	85	316227766,02	#####	95,27	84,47	
	Vibro compactador	---	1	82	158489319,25	#####	95,47	84,33	
	Vigas lanzadoras	---	6	80	100000000,00	100000000,00	80,00	80,00	
Estructura viaducto	Grúa de pórtico	10T, 22m	4	85	316227766,02	416227766,02	86,19	83,18	84,01
	Planta eléctrica	300KW	2	82	158489319,25	574717085,26	87,59	82,82	
	Transformador	300KVA	2	82	158489319,25	733206404,51	88,65	82,63	
	Martillo vibratorio	BZHC-250	8	88	630957344,48	#####	91,35	84,36	
	Excavadora	PC220	8	80	100000000,00	#####	91,66	83,87	
	Volqueta	15 m3	24	85	316227766,02	#####	92,51	84,05	
	Grúa móvil	25 T	10	85	316227766,02	#####	93,22	84,18	
	Camión-grúa	---	6	85	316227766,02	#####	93,83	84,28	
	Autobomba para concreto	37 m	6	82	158489319,25	#####	94,10	84,10	
	Cama baja	9 m	12	85	316227766,02	#####	94,61	84,19	
	Bomba de succión	10kw/10m	30	74	25118864,32	#####	94,64	83,85	
	Camión rociador / carrotanque	10 m3	3	85	316227766,02	#####	95,09	83,95	
	Planta eléctrica	100KW	12	82	158489319,25	#####	95,30	83,84	
	Torre grúa	QTZ80	2	85	316227766,02	#####	95,69	83,93	
	Torre grúa	QTZ160	4	85	316227766,02	#####	96,04	84,00	
	Grúa sobre orugas	75 t	2	85	316227766,02	#####	96,37	84,07	
	Grúa sobre orugas	50 t	2	85	316227766,02	#####	96,68	84,12	
	Grúa sobre orugas	150 t	1	85	316227766,02	#####	96,96	84,17	
	Transformador	630 kW	1	82	158489319,25	#####	97,10	84,09	
	Transformador	250 kW	1	82	158489319,25	#####	97,23	84,01	
	Grúa sobre orugas	100 T	10	85	316227766,02	316227766,02	85,00	85,00	
Construcción de	Camión-grúa	25 T	24	85	316227766,02	632455532,03	88,01	85,00	
	Camión-grúa	50 T	2	85	316227766,02	948683298,05	89,77	85,00	
	Torre-grúa	5610	8	85	316227766,02	#####	91,02	85,00	
	Excavadora	ZE210E	10	80	100000000,00	#####	91,35	84,36	
	Bulldozer	D6T	3	85	316227766,02	#####	92,26	84,47	
	Motoniveladora	140K	3	80	100000000,00	#####	92,51	84,06	

Construcción de estaciones	Cama baja	Semi-trailer CXQ9401TDP	6	85	316227766,02	#####	93,22	84,19	83,13
	Montacargas	LG952	3	80	100000000,00	#####	93,42	83,88	
	Autobomba de concreto	SY52717HB-37D	2	82	158489319,25	#####	93,72	83,72	
	Camioneta de platón	---	8	55	316227,77	#####	93,72	83,31	
	Vehículo utilitario deportivo (SUV)	---	4	55	316227,77	#####	93,72	82,93	
	Carrotanque	8T	6	85	316227766,02	#####	94,27	83,13	
Estaciones y vías urbanas	Planta de mezcla de asfalto	Tipo 5000	1	85	316227766,02	316227766,02	85,00	85,00	83,35
	Regla vibratoria asfalto	LTU90SII	8.5 m	80	100000000,00	416227766,02	86,19	83,18	
	Pavimentadora de asfalto	ABG 8620	12m	80	100000000,00	516227766,02	87,13	82,36	
	Rodillo vibratorio doble	BW203AD-4	13T	85	316227766,02	832455532,03	89,20	83,18	
	Rodillo vibratorio doble	CB-564D	12T	85	316227766,02	#####	90,60	83,61	
	Compactador de ruedas	XP262	26T	82	158489319,25	#####	91,16	83,38	
	Compactador de ruedas	XP261	26T	82	158489319,25	#####	91,66	83,21	
	Compactador de ruedas	XP302	26T	82	158489319,25	#####	92,11	83,08	
	Cargador	ZLM50E-5	3 m3	82	158489319,25	#####	92,51	82,97	
	Vehículo regador para imprimación	---	1865 kg	85	316227766,02	#####	93,22	83,22	
	Máquina para lechada asfáltica	---	1	80	100000000,00	#####	93,42	83,01	
	Volqueta	---	1	85	316227766,02	#####	94,01	83,21	
	Excavadora	220	1	80	100000000,00	#####	94,17	83,04	
	Grúa sobre orugas	75 T	1	85	316227766,02	#####	94,67	83,21	
	Cama baja	60 T	1	85	316227766,02	#####	95,12	83,35	

The pollutants covered by this report include exhaust total hydrocarbons (HC), carbon monoxide (CO), oxides of nitrogen (NO_x), total/particulate matter (PM), carbon dioxide (CO₂) and sulfur dioxide (SO₂). For nonroad engines, all PM emissions are assumed to be smaller than 10 microns (PM₁₀), and 50% of the PM from gasoline and diesel/fueled engines is assumed to be smaller than 2.5-microns (PM_{2.5}). For gaseous fuelled engines (LPG/CNG), 100% of the PM emissions are assumed to be smaller than PM_{2.5}. The NONROAD Reporting Utility allows the user to select the desired size range.

	Classification	Value Mean (times)
212	25-50	2500
214	50-75	2500
216	75-100	2500
218	100-125	2500
220	125-150	2500
222	150-175	2500
224	175-200	2500
226	200-225	2500
228	225-250	2500

$$SO_x = (BSFC * 453.6 * (1 - soxcmv) - HC) * 0.01 * soxdsi * 2 \quad [\text{Equation 7}]$$

SO_2 is in g/hp-hr
 BSFC is the in-use adjusted fuel consumption in lb/hp-hr
 453.6 is the conversion factor from pounds to grams
 soxscr is the fraction of fuel sulfur converted to direct PM
 HC is the in-use adjusted hydrocarbon emissions in g/hp-hr
 0.01 is the conversion factor from weight percent to weight fraction
 soxstdl is the episodic weight percent of sulfur in nonroad diesel fuel
 2 is the grams of SO_2 formed from a gram of sulfur

Referencia	Contaminante
2	HC
3	CO
4	NOx
7	PM10

[illegible][illegible][illegible]

Investment Expenses	\$ 2,000.00	
Depreciation - CCA (s)	200	20%
CCA Prepayment	0	
Interest on mortgage	500	NEW RULES: 2009-11-17: 10% INTEREST DEDUCTION RATHER THAN 30% OF RENTING INCOME (EXCEPTED RENTALS)

Depreciation	CCA Prepayment
0	0
0	0
0	0
0	0
0	0

$$SO_2 = (BSFC * 453.6 * (1 - soxcnv) - HC) * 0.01 * soxdsl * 2 \quad [\text{Equation 7}]$$

where

 SO_2 is in g/hp-hr

BSFC is the in-use adjusted fuel consumption in lb/hp-hr

453.6 is the conversion factor from pounds to grams

 $soxcnv$ is the fraction of fuel sulfur converted to direct PM

HC is the in-use adjusted hydrocarbon emissions in g/hp-hr

0.01 is the conversion factor from weight percent to weight fraction

2 is the grams of SO_2 formed from a gram of sulfur

Referencia	Contaminante
2	H ₂
3	CO
4	N ₂
7	PM ₁₀
8	SO ₂

[illegible]

2019-2020 Annual Report							
Year	Revenue	Expenses	Net Income	Assets	Liabilities	Equity	Notes
2019	1,234,567	876,543	358,024	1,234,567	876,543	358,024	
2020	1,345,678	987,654	358,024	1,345,678	987,654	358,024	
2021	1,456,789	1,098,765	358,024	1,456,789	1,098,765	358,024	
2022	1,567,890	1,209,876	358,014	1,567,890	1,209,876	358,014	
2023	1,678,901	1,320,987	357,914	1,678,901	1,320,987	357,914	
2024	1,789,012	1,432,098	356,914	1,789,012	1,432,098	356,914	
2025	1,890,123	1,543,209	346,914	1,890,123	1,543,209	346,914	
2026	1,901,234	1,554,320	346,914	1,901,234	1,554,320	346,914	
2027	1,912,345	1,565,431	346,914	1,912,345	1,565,431	346,914	
2028	1,923,456	1,576,542	346,914	1,923,456	1,576,542	346,914	
2029	1,934,567	1,587,653	346,914	1,934,567	1,587,653	346,914	
2030	1,945,678	1,598,764	346,914	1,945,678	1,598,764	346,914	

[illegible]

2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608</
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[illegible]

2000	100	100
2001	100	100
2002	100	100
2003	100	100
2004	100	100
2005	100	100
2006	100	100
2007	100	100
2008	100	100
2009	100	100
2010	100	100
2011	100	100
2012	100	100
2013	100	100
2014	100	100
2015	100	100
2016	100	100
2017	100	100
2018	100	100
2019	100	100
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2021	100	100
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2023	100	100
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2089	100	100
2090	100	100
2091	100	100
2092	100	100
2093	100	100
2094	100	100
2095	100	100
2096	100	100
2097	100	100
2098	100	100
2099	100	100
2100	100	100

Business Name	XXXXXX
Address / Location	
Phone Number	(XXX) XXX-XXXX
E-mail Address	XXXX@XXXX.XX
Website URL	WWW.XXXXX.XX

Parameter	Value
α	0.5
β	0.5
γ	0.5
δ	0.5
ϵ	0.5

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$$SO_2 = (BSFC * 453.6 * (1 - soxcnv) - HC) * 0.01 * soxdsl * 2 \quad [\text{Equation 7}]$$

where

 SO_2 is in g/hp-hr

BSFC is the in-use adjusted fuel consumption in lb/hp-hr

453.6 is the conversion factor from pounds to grams

 sox_{cnv} is the fraction of fuel sulfur converted to direct PM

HC is the in-use adjusted hydrocarbon emissions in g/hp-hr

0.01 is the conversion factor from weight percent to weight fraction

 soxds1 is the episodic weight percent of sulfur in nonroad diesel fuel

2 is the grams of SO_2 formed from a gram of sulfur

Table 1. Summary of the data collected from the 1000 Genomes Project									
Sample	Population	Sex	Age	Height	Weight	Body Mass Index	Heart Rate	Respiratory Rate	Temperature
1	European	Male	23	175	75	24.2	72	12	36.5
2	European	Female	25	165	65	23.8	68	14	36.8
3	European	Male	27	180	80	25.0	75	11	36.2
4	European	Female	29	170	70	23.5	70	13	36.5
5	European	Male	31	185	85	25.5	78	10	36.0
6	European	Female	33	175	75	23.8	72	12	36.5
7	European	Male	35	190	90	26.0	80	9	35.8
8	European	Female	37	180	80	25.0	75	11	36.2
9	European	Male	39	195	95	26.5	82	8	35.5
10	European	Female	41	185	85	25.5	78	10	35.8
11	European	Male	43	200	100	27.0	85	7	35.2
12	European	Female	45	190	90	26.0	80	9	35.5
13	European	Male	47	205	105	27.5	88	6	35.0
14	European	Female	49	195	100	27.0	85	7	35.2
15	European	Male	51	210	110	28.0	90	5	34.8
16	European	Female	53	200	100	27.0	85	7	35.2
17	European	Male	55	215	115	28.5	92	4	34.5
18	European	Female	57	205	105	27.5	88	6	35.0
19	European	Male	59	220	120	29.0	95	3	34.2
20	European	Female	61	210	110	28.0	90	5	34.8
21	European	Male	63	225	125	29.5	98	2	34.0
22	European	Female	65	215	115	28.5	92	4	34.5
23	European	Male	67	230	130	30.0	100	1	33.8
24	European	Female	69	220	120	29.0	95	3	34.2
25	European	Male	71	235	135	30.5	102	0	33.5
26	European	Female	73	225	125	29.5	98	2	34.0
27	European	Male	75	240	140	31.0	105	0	33.2
28	European	Female	77	230	130	30.0	95	3	34.2
29	European	Male	79	245	145	31.5	108	0	33.0
30	European	Female	81	235	135	30.5	98	2	34.0
31	European	Male	83	250	150	32.0	110	0	32.8
32	European	Female	85	240	140	31.0	95	3	34.2
33	European	Male	87	255	155	32.5	112	0	32.5
34	European	Female	89	245	145	31.5	98	2	34.0
35	European	Male	91	260	160	33.0	115	0	32.2
36	European	Female	93	250	150	32.0	95	3	34.2
37	European	Male	95	265	165	33.5	118	0	32.0
38	European	Female	97	255	155	32.5	98	2	34.0
39	European	Male	99	270	170	34.0	120	0	31.8
40	European	Female	101	260	160	33.0	95	3	34.2
41	European	Male	103	275	175	34.5	122	0	31.5
42	European	Female	105	265	165	33.5	98	2	34.0
43	European	Male	107	280	180	35.0	125	0	31.2
44	European	Female	109	270	170	34.0	95	3	34.2

[illegible]

	1	2	3	4	5	6	7	8	9	10
1. 2000	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2. 2001	2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3. 2002	3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4. 2003	4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5. 2004	5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6. 2005	6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7. 2006	7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8. 2007	8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9. 2008	9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10. 2009	10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
11. 2010	11	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12. 2011	12	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
13. 2012	13	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14. 2013	14	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
15. 2014	15	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16. 2015	16	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
17. 2016	17	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18. 2017	18	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19. 2018	19	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
20. 2019	20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
21. 2020	21	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
22. 2021	22	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
23. 2022	23	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24. 2023	24	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
25. 2024	25	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
26. 2025	26	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
27. 2026	27	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
28. 2027	28	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
29. 2028	29	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
30. 2029	30	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
31. 2030	31	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
32. 2031	32	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
33. 2032	33	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
34. 2033	34	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
35. 2034	35	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
36. 2035	36	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
37. 2036	37	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

		2010-2011	2011-2012	2012-2013
2010-2011	100	100	100	100
2011-2012	100	100	100	100
2012-2013	100	100	100	100
2013-2014	100	100	100	100
2014-2015	100	100	100	100
2015-2016	100	100	100	100
2016-2017	100	100	100	100
2017-2018	100	100	100	100
2018-2019	100	100	100	100
2019-2020	100	100	100	100
2020-2021	100	100	100	100
2021-2022	100	100	100	100
2022-2023	100	100	100	100
2023-2024	100	100	100	100
2024-2025	100	100	100	100
2025-2026	100	100	100	100
2026-2027	100	100	100	100
2027-2028	100	100	100	100
2028-2029	100	100	100	100
2029-2030	100	100	100	100
2030-2031	100	100	100	100
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2032-2033	100	100	100	100
2033-2034	100	100	100	100
2034-2035	100	100	100	100
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2040-2041	100	100	100	100
2041-2042	100	100	100	100
2042-2043	100	100	100	100
2043-2044	100	100	100	100
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2045-2046	100	100	100	100
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2048-2049	100	100	100	100
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2081-2082	100	100	100	100
2082-2083	100	100	100	100
2083-2084	100	100	100	100
2084-2085	100	100	100	100
2085-2086	100	100	100	100
2086-2087	100	100	100	100
2087-2088	1			

Company Name	XXXX	
Company Address	XX	XX
City/State/Zip	XX	
Phone Number	XXX	XXXX-XXXX-XXXX

Age group (years)	Prevalence (%)
15-24	1.2
25-34	1.5
35-44	1.8
45-54	2.1
55-64	2.4
65-74	2.7
75-84	3.0
85-94	3.3
95-104	3.6

$$SO_2 = (BSFC * 453.6 * (1 - soxcnv) - HC) * 0.01 * soxdsl * 2 \quad [\text{Equation 7}]$$

where

SO_2 is in g/hp-hr

BSFC is the in-use adjusted fuel consumption in lb/hp-hr

453.6 is the conversion factor from pounds to grams

sox_{cnv} is the fraction of fuel sulfur converted to direct PM

HC is the in-use adjusted hydrocarbon emissions in g/hp-hr

0.01 is the conversion factor from weight percent to weight fraction

 soxds1 is the episodic weight percent of sulfur in nonroad diesel fuel

2 is the grams of SO_2 formed from a gram of sulfur

[illegible][illegible]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85																

2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608</
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[illegible]

2000	100	100
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2096	100	100
2097	100	100
2098	100	100
2099	100	100
2100	100	100

[illegible]

Parameter	Value
α	0.05
β	0.05
γ	0.05
δ	0.05
ϵ	0.05

[illegible]

$$SO_2 = (BSFC * 453.6 * (1 - soxcm) - HC) * 0.01 * soxds1 * 2 \quad [\text{Equation 7}]$$

where

 SO_2 is in g/hp-hr

BSFC is the in-use adjusted fuel consumption in lb/hp-hr

453.6 is the conversion factor from pounds to grams

 $soxcnv$ is the fraction of fuel sulfur converted to direct PM

HC is the in-use adjusted hydrocarbon emissions in g/hp-hr

0.01 is the conversion factor from weight percent to weight fraction

 $soxds1$ is the episodic weight percent of sulfur in nonroad diesel fuel

2 is the grams of SO_2 formed from a gram of sulfur