

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ
1	ExxonMobil, USA		Entity emissions from combustion, venting, flaring, and fugitive methane																												Entity emissions from											
2			Richard Heede Climate Accountability Institute 22-Jul-19																																							
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	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF			
1																																												
2	m combustion, venting, flaring, and fugitive methane																			Entity emissions from combustion, venting, flaring, and fugitive methane																								
3	Richard Heede Climate Accountability Institute 22-Jul-19										Richard Heede Climate Accountability Institute 22-Jul-19																																	
4																																												
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9																																												
10											1890s					1900s					1900s					1910s					1920s													
11	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927			
12																																												
13																																												
14																																												
15	0.16	0.21	0.31	0.40	0.56	0.67	0.79	0.90	0.94	1.09	1.30	1.41	1.42	1	2	2	2	2	3	3	3	4	4	5	5	6	5	5	7	7	8	10	12	14	14	16	21	28	28	32	33			
16														0.5	0.7	0.8	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	5	5	5	6		
17																																												
18	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	3	3	3	4	4	5	5	6	7	7	8	8	8	9	10	11	13	15	17	17	19	25	32	33	37	38			
19																																												
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
22																																												
23																																												
24																																												
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26																																												
27																																												
28																																												
29	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	3	3	3	4	5	5	5	6	7	8	8	8	8	9	10	12	13	16	18	18	20	26	33	34	38	40			
30																																												
31																																												
32																																												
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34																																												
35																																												
36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.05	0.06	0.08	0.10	0.10	0.11	0.12	
37																																												
38																																												
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40																																												
41																																												
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43																																												
44																																												
45	0	0	0	0	1	1	1	1	1	1	1	1	2	2	3	3	3	4	4	5	6	6	7	8	8	9	9	9	10	12	13	15	17	19	19	21	28	36	37	41	43			
46																																												
47																																												
48	1,081	1,198	1,198	1,304	1,359	1,370	1,356	1,403	1,488	1,535	1,612	1,700	1,861	1,957	2,026	2,074	2,261	2,286	2,433	2,594	2,869	2,744	2,876	3,001	3,060	3,221	3,459	3,115	3,071	3,298	3,503	3,430	2,953	3,415	2,942	3,096	3,554	3,525	3,573	3,606	3,891			
49	295	327	327	356	371	374	370	383	406	419	440	464	508	534	553	566	617	624	664	708	783	749	785	819	835	879	944	850	838	900	956	936	806	932	803	845	970	962	975	984	1,062			
50																																												
51	0.01%	0.02%	0.03%	0.03%	0.04%	0.05%	0.06%	0.07%	0.06%	0.07%	0.08%	0.08%	0.08%	0.10%	0.12%	0.14%	0.14%	0.15%	0.16%	0.18%	0.18%	0.20%	0.21%	0.24%	0.25%	0.25%	0.23%	0.26%	0.31%	0.32%	0.34%	0.39%	0.53%	0.52%	0.60%	0.63%	0.73%	0.94%	0.95%	1.06%	1.02%			
52																																												
53																																												
54	6.8	7.4	7.5	8.0	8.3	8.4	8.2	8.5	9.0	9.3	9.7	10.2	11.2	11.8	12.1	12.4	13.6	13.7	14.4	15.5	17.1	16.3	17.0	17.8	18.1	19.1	20.4	18.4	18.1	19.5	20.6	20.3	17.9	20.6	17.7	19.0	21.3	21.1	21.2	21.2	23.0			
55																																												
56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01		
57																																												
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60																																												
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	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS		
1																																									
2	Entity emissions from combustion, venting, flaring, and fugitive methane																																								
3	Richard Heede Climate Accountability Institute 22-Jul-19																																								
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6																																									
7	Mobil, USA										ExxonMobil, USA																														
8																																									
9																																									
10	1930s					1930s					1940s									1950s									1960s												
11	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966		
12																																									
13																																									
14																																									
15	36	41	42	41	51	66	80	86	93	107	100	110	102	113	83	112	146	158	174	193	198	176	214	255	272	284	293	327	361	369	362	381	393	423	466	515	558	606	643		
16	6	8	8	7	6	6	7	8	9	12	8	11	12	13	14	16	17	18	19	23	25	28	33	36	40	44	46	50	53	57	58	62	66	69	78	82	93	107	122		
17																																									
18	42	49	49	48	58	72	87	94	102	119	109	122	114	126	98	128	163	176	192	215	223	203	247	291	313	328	339	377	414	426	420	443	459	493	543	597	651	712	765		
19																																									
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	
21	1	1	1	1	1	1	1	1	1	2	2	2	1	2	2	3	3	3	3	3	3	3	3	4	4	5	5	5	6	6	6	6	6	6	7	7	8	9	10	10	
22	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	6	7	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1	1	1	1	2	2	2	2	3	3	3	3	3	3	3	4	4	5	5	6	6	6	7	8	9	9	10	11	12	12	12	13	14	14	16	17	19	21	23		
26																																									
27																																									
28																																									
29	43	50	51	49	59	74	90	96	105	123	111	125	117	129	100	132	168	181	198	221	229	209	254	299	322	337	349	388	426	439	433	456	473	507	559	615	671	733	789		
30																																									
31																																									
32																																									
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	
35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	0.13	0.15	0.16	0.14	0.16	0.19	0.22	0.24	0.27	0.33	0.27	0.33	0.32	0.35	0.30	0.37	0.45	0.48	0.52	0.59	0.63	0.61	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
37																																									
38																																									
39	2	2	2	2	3	4	4	5	5	6	5	6	5	6	4	6	8	9	9	10	11	9	12	14	15	15	16	18	19	20	19	21	21	23	25	28	30	33	35		
40	2	2	2	2	2	2	2	2	3	3	2	3	3	4	4	4	5	5	5	6	7	8	9	10	11	12	13	14	15	16	16	17	18	19	21	23	26	29	34		
41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	4	4	4	4	4	5	6	7	8	9	8	9	9	10	8	10	13	14	15	17	18	17	21	24	26	27	29	31	34	36	36	38	39	42	47	50	56	62	68		
43																																									
44																																									
45	47	55	55	53	64	79	96	103	112	132	119	134	126	139	109	142	180	194	212	237	247	227	274	323	348	365	377	419	460	474	468	493	512	549	606	665	726	795	857		
46																																									
47																																									
48	3,906	4,195	3,855	3,441	3,104	3,276	3,565	3,759	4,141	4,430	4,188	4,364	4,760	4,884	4,914	5,097	5,068	4,254	4,536	5,104	5,383	5,199	5,976	6,475	6,577	6,742	6,834	7,490	7,977	8,318	8,538	8,986	9,407	9,453	9,842	10,376	10,974	11,467	12,046		
49	1,066	1,145	1,052	939	847	894	973	1,026	1,130	1,209	1,143	1,191	1,299	1,333	1,341	1,391	1,383	1,161	1,238	1,393	1,469	1,419	1,631	1,767	1,795	1,840	1,865	2,044	2,177	2,270	2,330	2,452	2,567	2,580	2,686	2,832	2,995	3,129	3,288		
50																																									
51	1.10%	1.20%	1.32%	1.42%	1.90%	2.26%	2.51%	2.56%	2.53%	2.77%	2.66%	2.86%	2.46%	2.65%	2.05%	2.58%	3.31%	4.25%	4.35%	4.33%	4.26%	4.03%	4.25%	4.63%	4.89%	5.00%	5.10%	5.18%	5.34%	5.27%	5.07%	5.07%	5.02%	5.37%	5.68%	5.92%	6.11%	6.40%	6.55%		
52																																									
53																																									
54	22.8	24.4	22.3	19.9	17.9	18.8	20.4	21.0	23.3	24.8	23.4	24.8	26.2	27.0	27.0	27.4	26.9	23.5	24.7	27.6	29.2	28.1	30.4	32.2	32.7	33.1	33.1	35.9	37.7	39.7	40.9	42.7	44.6	44.3	45.1	47.1	49.4	51.3	53.4		
55																																									
56	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	
57																																									
58																																									
59																																									
60																																									
61																																									

DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	
Entity emissions from combustion, venting, flaring, and fugitive methane																			Entity emissions from combustion, venting, flaring, and fugitive methane																			
Richard Heede Climate Accountability Institute 22-Jul-19																			Richard Heede Climate Accountability Institute 22-Jul-19																			
ExxonMobil, USA																																						
1960s			1970s										1980s										1990s						2000s									
1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
695	760	784	854	891	953	941	788	694	567	610	574	601	498	262	266	298	319	338	342	345	348	337	322	335	334	332	350	345	337	344	341	344	348	347	341	344	353	
133	155	181	209	234	249	274	278	270	267	265	264	267	207	187	164	157	179	178	171	181	185	194	190	197	200	204	209	208	220	215	212	207	208	209	214	210	209	
828	915	965	1,066	1,130	1,211	1,227	1,080	982	855	899	864	898	738	485	468	499	548	573	574	595	607	615	605	623	606	605	628	584	585	588	583	583	589	580	561	554	561	
3	3	3	3	3	4	4	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	12	13	14	14	15	15	13	11	9	10	9	10	8	4	4	5	5	5	5	5	5	5	5	5	5	5	6	6	5	5	5	5	5	5	6	6	5	6
8	9	10	12	13	14	16	16	15	15	15	15	15	12	11	9	9	10	10	10	10	11	11	11	11	11	12	12	12	13	12	12	12	12	12	12	12	12	12
4	4	5	6	7	7	8	8	8	8	8	8	8	6	5	5	4	5	5	5	5	5	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	29	31	35	38	41	43	40	37	35	35	34	35	28	22	20	20	22	22	22	23	23	24	23	24	24	24	25	25	26	26	25	25	25	25	25	25	25	25
853	943	996	1,102	1,168	1,252	1,269	1,120	1,019	889	934	898	933	766	506	488	519	570	595	596	618	630	638	628	647	630	629	653	609	611	614	608	608	614	605	586	579	587	
1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
3	3	3	4	4	4	5	4	4	4	4	4	4	3	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
37	41	42	46	48	51	51	42	37	31	33	31	32	27	14	14	16	17	18	18	19	19	18	17	18	18	18	19	19	18	19	18	19	19	19	18	19	19	
37	43	50	58	65	69	76	77	75	74	73	73	74	57	52	45	43	50	49	47	50	51	54	53	55	55	56	58	57	61	60	59	57	58	58	59	58	58	
-	-	-	0	1	1	1	2	2	3	3	3	4	4	4	4	5	6	7	8	8	10	10	10	8	8	8	8	3	3	3	3	3	4	4	3	1	-	
74	84	92	104	113	121	128	121	114	107	109	107	110	88	70	64	64	72	74	73	76	78	81	80	83	81	82	84	80	82	81	80	79	80	79	78	77	77	
927	1,027	1,088	1,206	1,282	1,373	1,397	1,241	1,133	996	1,043	1,005	1,042	853	576	551	583	642	669	669	694	708	720	708	730	712	711	738	688	693	695	688	687	694	684	664	656	663	
12,435	13,064	13,847	14,847	15,411	16,028	16,898	16,928	16,827	17,806	18,356	18,563	19,595	19,385	18,788	18,629	18,550	19,222	19,794	20,397	20,910	21,682	22,155	22,183	22,431	22,193	22,154	22,539	23,012	23,528	23,917	23,983	23,932	24,560	25,139	25,492	26,861	28,193	
3,394	3,565	3,779	4,052	4,206	4,374	4,612	4,620	4,592	4,859	5,010	5,066	5,348	5,291	5,127	5,084	5,063	5,246	5,402	5,567	5,707	5,917	6,046	6,054	6,122	6,057	6,046	6,151	6,280	6,421	6,527	6,545	6,531	6,703	6,861	6,957	7,331	7,694	
6.86%	7.22%	7.19%	7.42%	7.58%	7.81%	7.51%	6.62%	6.06%	4.99%	5.09%	4.84%	4.76%	3.95%	2.69%	2.62%	2.80%	2.96%	3.01%	2.92%	2.95%	2.91%	2.88%	2.83%	2.88%	2.84%	2.84%	2.90%	2.65%	2.60%	2.57%	2.54%	2.54%	2.50%	2.41%	2.30%	2.16%	2.08%	
54.7	57.2	60.6	60.3	60.6	62.7	66.6	66.2	65.5	69.8	70.3	72.0	73.3	72.0	68.1	69.1	69.2	70.4	72.9	74.2	75.8	78.6	79.9	80.7	81.2	80.4	78.7	79.1	81.1	83.2	83.7	83.0	82.6	85.4	86.9	88.8	94.5	99.3	
0.05	0.05	0.05	0.06	0.07	0.07	0.07	0.07	0.06	0.05	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GR
1	ing, flaring, and fugitive methane																															
2	e																															
3	y Institute																															
4																																
5																																
6																																
7	ExxonMobil, USA																															
8																																
9																																
10																2010s										Cumulative						
11	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	MtCO2e					Entity emissions											
12	(except where noted)																(V = verified)															
13																	Entity CO2 emissions					kg CO2/tCO2										
14																	Oil & NGLs					MtCO2	linked									
15	349	371	363	336	335	328	313	296	299	286	318	321	310	307	12,429					MtCO2	linked											
16	201	205	211	215	225	237	257	240	231	217	205	198	199	183	1,317					MtCO2	linked											
17																	Coal					MtCO2	linked									
18	549	576	574	550	560	565	570	537	529	504	523	518	509	491	45,783					MtCO2	sum											
19																	Combustion total					MtCO2	sum									
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	123					MtCO2	calculated	3.83	linked									
21	6	6	6	5	5	5	5	5	5	5	5	5	5	5	511					MtCO2	calculated	15.94	linked									
22	11	12	12	12	13	14	15	14	13	12	12	11	11	11	712					MtCO2	calculated	57.26	linked									
23	6	6	6	6	6	7	7	7	7	6	6	6	6	5	355					MtCO2	calculated	28.53	linked									
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22					MtCO2	calculated	1.74	linked									
25	24	25	26	25	26	27	29	27	26	25	24	24	24	22	1,722					MtCO2	sum											
26																	Venting & Flaring total					MtCO2	sum									
27																	Cement					MtCO2	linked									
28																						MtCO2										
29	574	602	600	576	586	593	599	563	555	528	547	542	532	513	47,505					MtCO2	sum	row 18+24+26										
30																	Total CO2 emissions					MtCO2	sum									
31	102.0	103.7	102.8	106.5	110.4	116.6	109.3	106.0	100.2	98.1	95.5	95.3	89.4	summed scope 1 CO2 & CH4					(for UCS carbon intensity project, Jan17)													
32																	Entity methane emissions					kg CH4/tCO2										
33	1	1	1	1	1	1	1	1	1	1	1	1	1	1	62					MtCH4	calculated	1.92	linked									
34	2	2	2	2	2	2	3	2	2	2	2	2	2	2	123					MtCH4	calculated	9.88	linked									
35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5					MtCH4	calculated	4.03	linked									
36	3	3	3	3	3	3	3	3	3	3	3	3	3	2	190					MtCH4	sum											
37																	Total methane emissions					MtCH4	sum									
38																	Entity methane emissions					GWP										
39	19	20	20	18	18	18	17	16	16	15	17	17	17	17	1,725					MtCO2e	calculated	28										
40	55	57	58	59	62	66	71	66	64	60	57	55	55	51	3,438					MtCO2e	calculated	28										
41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	149					MtCO2e	calculated	28										
42	74	77	78	77	80	83	88	82	80	76	74	72	72	67	5,312					MtCO2e	sum	(per IPCC AR5)										
43	74	77	78	77	80	83	88	82	80	76	74	72	72	67						MtCO2e												
44																	Total attributed emissions					MtCO2e	sum									
45	648	678	678	653	666	676	687	646	635	604	621	614	604	580	52,817					MtCO2e	sum											
46																	CDIAC CO2 emissions					MtCO2										
47	29,253	30,288	30,882	31,881	31,525	33,068	34,359	34,921	35,213	35,511	35,465	35,677	36,155	37,131	1,611,433					MtCO2												
48	7,983	8,266	8,428	8,701	8,603	9,025	9,377	9,530	9,610	9,691	9,679	9,737	9,867	10,134	439,779					Mt Carbon												
49																	Entity percent of total CO2 emissions					Percent										
50																	CDIAC sums July 2019															
51	1.96%	1.99%	1.94%	1.81%	1.86%	1.79%	2.95%					Entity percent of total CH4 emissions					Percent															
52																	CDIAC/EDGAR methane					Tg CH4										
53	103.4	107.4	110.2	115.4	113.2	120.9	5,459					Entity percent of total CH4 emissions					Percent															
54	0.03	0.03	0.03	0.02	0.03	0.02	3.48%																									
55																																
56																																
57																																
58																																
59																																
60																																
61																																