

Attachment 2. Analysis inputs and results, ARB primary products metric.^a

PADD	Year	Inputs			Results		
		Observed CO ₂ (kg/m ³)	Primary products (% crude)	Capacity utilization (%)	Prediction (kg/m ³)	Observation (kg/m ³)	Obs-Pred. %Δ
1	1999	281	85.50	90.9	309	281	-9
1	2000	276	85.70	91.7	302	276	-9
1	2001	288	86.40	87.2	295	288	-2
1	2002	278	86.40	88.9	304	278	-9
1	2003	274	84.70	92.7	340	274	-19
1	2004	278	85.80	90.4	306	278	-9
1	2005	277	87.10	93.1	278	277	0
1	2006	277	85.70	86.7	305	277	-9
1	2007	288	85.00	85.6	297	288	-3
1	2008	296	85.00	80.8	245	296	21
2	1999	263	88.20	93.3	271	263	-3
2	2000	261	88.60	94.2	263	261	-1
2	2001	263	88.90	93.9	263	263	0
2	2002	264	89.50	90.0	282	264	-6
2	2003	257	89.40	91.6	273	257	-6
2	2004	261	89.50	93.6	261	261	0
2	2005	270	89.80	92.9	261	270	4
2	2006	284	89.10	92.4	267	284	6
2	2007	287	89.50	90.1	274	287	5
2	2008	289	90.20	88.4	275	289	5
3	1999	326	78.90	94.7	318	326	2
3	2000	328	79.60	93.9	317	328	4
3	2001	315	79.30	94.8	319	315	-1
3	2002	322	79.70	91.5	319	322	1
3	2003	319	79.40	93.6	320	319	0
3	2004	309	79.70	94.1	319	309	-3
3	2005	308	80.20	88.3	328	308	-6
3	2006	324	80.10	88.7	321	324	1
3	2007	317	80.00	88.7	322	317	-2
3	2008	325	80.80	83.6	313	325	4
5	1999	345	81.30	87.1	323	345	7
5	2000	358	82.90	87.5	320	358	12
5	2001	350	82.90	89.1	331	350	5
5	2002	338	84.50	90.0	329	338	3
5	2003	339	84.70	91.3	312	339	9
5	2004	340	85.00	90.4	317	340	7
5	2005	334	85.70	91.7	294	334	13
5	2006	337	85.20	90.5	313	337	8
5	2007	352	84.90	87.6	312	352	13
5	2008	338	86.20	88.1	294	338	15
Calif. avg.	2004	354	86.68	93.0	280	354	26
Calif. avg.	2005	358	87.66	95.0	259	358	38
Calif. avg.	2006	384	88.07	91.5	279	384	38
Calif. avg.	2007	401	88.04	88.3	292	401	37
Calif. avg.	2008	383	88.53	91.0	276	383	39
Calif. avg.	2009	397	87.98	82.9	269	397	48

^a Observed emissions analyzed against the sum of yield for aviation gasoline, motor gasoline, distillate fuel oil, kerosene jet fuel, and asphalt by nonparametric regression (LOWESS). Data from Table 2-1.