

Attachment 4. Inputs and results, emissions/vol. products vs crude quality and fuels

Emit/vol. products: products include aviation and motor gasoline, jet fuel, distillate, and naphtha

PADD	Year	Emit/prod. (kg/m ³)	density (kg/m ³)	sulfur (kg/m ³)	Cap. ut. (%)	Prod. ratio	Emit pred. 95% confidence			Observed (kg/m ³)
							Lower	Central	Upper	
1	1999	344	858.20	8.24	90.9	3.668	304	326	348	344
1	2000	339	860.18	8.00	91.7	3.489	313	335	357	339
1	2001	351	866.34	7.71	87.2	3.479	333	355	377	351
1	2002	338	865.71	7.45	88.9	3.605	322	344	366	338
1	2003	340	863.44	7.43	92.7	3.321	323	345	367	340
1	2004	343	865.44	7.79	90.4	3.397	329	351	373	343
1	2005	333	863.38	7.17	93.1	3.756	301	324	346	333
1	2006	338	864.12	7.17	86.7	3.522	326	348	370	338
1	2007	353	864.33	7.26	85.6	3.443	333	354	376	353
1	2008	362	863.65	7.08	80.8	3.400	342	364	386	362
2	1999	312	858.25	10.64	93.3	4.077	289	311	334	312
2	2000	308	860.03	11.35	94.2	4.132	290	313	335	308
2	2001	308	861.33	11.37	93.9	4.313	285	307	330	308
2	2002	309	861.02	11.28	90.0	4.345	290	313	335	309
2	2003	302	862.80	11.65	91.6	4.281	295	317	339	302
2	2004	307	865.65	11.86	93.6	4.167	302	324	346	307
2	2005	316	865.65	11.95	92.9	4.207	302	324	346	316
2	2006	336	865.44	11.60	92.4	3.907	315	337	359	336
2	2007	337	864.07	11.84	90.1	4.161	306	328	351	337
2	2008	337	862.59	11.73	88.4	4.333	299	321	343	337
3	1999	404	869.00	12.86	94.7	3.120	357	379	401	404
3	2000	406	870.29	12.97	93.9	3.120	361	383	405	406
3	2001	392	874.43	14.34	94.8	3.128	371	393	415	392
3	2002	395	876.70	14.47	91.5	3.251	377	399	421	395
3	2003	393	874.48	14.43	93.6	3.160	372	394	416	393
3	2004	376	877.79	14.40	94.1	3.228	374	396	418	376
3	2005	376	878.01	14.40	88.3	3.316	382	404	426	376
3	2006	398	875.67	14.36	88.7	3.176	383	405	427	398
3	2007	389	876.98	14.47	88.7	3.205	385	407	429	389
3	2008	398	878.66	14.94	83.6	3.229	398	420	443	398
5	1999	434	894.61	11.09	87.1	2.952	419	442	464	434
5	2000	443	895.85	10.84	87.5	3.160	410	433	455	443
5	2001	431	893.76	10.99	89.1	3.231	401	423	446	431
5	2002	408	889.99	10.86	90.0	3.460	382	404	426	408
5	2003	408	889.10	10.94	91.3	3.487	377	399	421	408
5	2004	409	888.87	11.20	90.4	3.551	376	398	420	409
5	2005	397	888.99	11.38	91.7	3.700	368	390	411	397
5	2006	404	887.65	10.92	90.5	3.615	370	392	414	404
5	2007	423	885.54	11.07	87.6	3.551	375	397	419	423
5	2008	398	890.16	12.11	88.1	3.803	375	397	419	398
Predictions for California refineries										
California average, 2004		899.23	11.46	93.0	3.633	387	409	431	418	
California average, 2005		900.56	11.82	95.0	3.801	379	401	423	417	
California average, 2006		899.56	11.73	91.5	3.845	382	404	426	446	
California average, 2007		899.84	11.89	88.3	3.814	390	412	435	467	
California average, 2008		902.00	12.85	91.0	4.087	380	402	424	441	
California average, 2009		901.38	11.70	82.9	4.045	393	415	437	459	

Data from Table 2-1.