

APPENDIX C

Air Quality Modeling Data

Appendix C

AIR QUALITY MODELING DATA

This appendix accompanies Sections 3.3 and 4.3 of this Environmental Impact Statement (EIS) and presents the results of the air quality analysis for individual nonattainment areas. Each table provides the estimated reduction in emissions for one pollutant and calendar year of analysis for each nonattainment area by alternative. In each table, the emissions changes are presented for the proposed model year (MY) 2012-2016 CAFE Standards, and also for the cumulative impacts of the proposed MYs 2012-2016 standards combined with other reasonably foreseeable future actions.

Table C-1
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Acetaldehyde 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.00	0.02	0.04	0.14	0.23	0.17	0.24	0.23	0.00	0.00	0.02	0.04	0.14	0.23	0.17	0.24	0.23
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	-0.01	0.10	0.19	0.71	1.15	0.84	1.17	1.17	0.00	-0.01	0.10	0.19	0.71	1.15	0.84	1.17	1.17
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.00	0.04	0.09	0.33	0.53	0.39	0.54	0.54	0.00	0.00	0.04	0.09	0.33	0.53	0.39	0.54	0.54
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.03	-0.03	-0.03	0.02	0.05	0.02	0.05	0.05	0.00	-0.03	-0.03	-0.03	0.02	0.05	0.02	0.05	0.05
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-0.40	-0.59	-0.68	-0.72	-0.94	-0.87	-0.97	-1.01	0.00	-0.40	-0.59	-0.68	-0.72	-0.94	-0.87	-0.97	-1.01
Birmingham, AL	-	Nonattainment	-	100	0.00	0.00	0.02	0.03	0.12	0.19	0.14	0.19	0.19	0.00	0.00	0.02	0.03	0.12	0.19	0.14	0.19	0.19
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	-0.01	0.08	0.15	0.57	0.93	0.67	0.94	0.94	0.00	-0.01	0.08	0.15	0.57	0.93	0.67	0.94	0.94
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.00	0.01	0.02	0.07	0.11	0.08	0.11	0.11	0.00	0.00	0.01	0.02	0.07	0.11	0.08	0.11	0.11
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.00	0.02	0.03	0.13	0.21	0.16	0.22	0.22	0.00	0.00	0.02	0.03	0.13	0.21	0.16	0.22	0.22
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.03	0.06	0.04	0.06	0.06	0.00	0.00	0.00	0.01	0.03	0.06	0.04	0.06	0.06
Charleston, WV	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.03	0.05	0.04	0.05	0.05	0.00	0.00	0.00	0.01	0.03	0.05	0.04	0.05	0.05
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.00	0.03	0.05	0.19	0.30	0.22	0.31	0.31	0.00	0.00	0.03	0.05	0.19	0.30	0.22	0.31	0.31
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.00	0.01	0.02	0.06	0.10	0.07	0.10	0.10	0.00	0.00	0.01	0.02	0.06	0.10	0.07	0.10	0.10
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-0.01	0.11	0.20	0.77	1.26	0.91	1.28	1.27	0.00	-0.01	0.11	0.20	0.77	1.26	0.91	1.28	1.27
Chico, CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.03	0.04	0.03	0.04	0.04	0.00	0.00	0.00	0.01	0.03	0.04	0.03	0.04	0.04
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.00	0.03	0.06	0.22	0.35	0.26	0.36	0.36	0.00	0.00	0.03	0.06	0.22	0.35	0.26	0.36	0.36
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.00	0.04	0.08	0.30	0.48	0.35	0.49	0.49	0.00	0.00	0.04	0.08	0.30	0.48	0.35	0.49	0.49
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.00	0.02	0.05	0.18	0.29	0.21	0.30	0.30	0.00	0.00	0.02	0.05	0.18	0.29	0.21	0.30	0.30
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	-0.01	0.10	0.19	0.73	1.19	0.86	1.21	1.20	0.00	-0.01	0.10	0.19	0.73	1.19	0.86	1.21	1.20
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.00	0.01	0.02	0.09	0.14	0.10	0.14	0.14	0.00	0.00	0.01	0.02	0.09	0.14	0.10	0.14	0.14
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.00	0.05	0.10	0.38	0.61	0.44	0.62	0.62	0.00	0.00	0.05	0.10	0.38	0.61	0.44	0.62	0.62
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-0.01	0.07	0.14	0.53	0.86	0.62	0.87	0.87	0.00	-0.01	0.07	0.14	0.53	0.86	0.62	0.87	0.87
Door Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.03	0.06	0.04	0.06	0.06	0.00	0.00	0.00	0.01	0.03	0.06	0.04	0.06	0.06
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.00	0.03	0.05	0.19	0.31	0.22	0.31	0.31	0.00	0.00	0.03	0.05	0.19	0.31	0.22	0.31	0.31
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.00	0.01	0.02	0.09	0.15	0.11	0.15	0.15	0.00	0.00	0.01	0.02	0.09	0.15	0.11	0.15	0.15
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.00	0.01	0.02	0.09	0.14	0.10	0.14	0.14	0.00	0.00	0.01	0.02	0.09	0.14	0.10	0.14	0.14
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	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
Hickory, NC	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.01	0.02	0.03	0.02	0.03	0.03
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-0.55	-0.73	-0.79	-0.44	-0.40	-0.54	-0.42	-0.48	0.00	-0.55	-0.73	-0.79	-0.44	-0.40	-0.54	-0.42	-0.48
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.04	0.06	0.04	0.06	0.06	0.00	0.00	0.01	0.01	0.04	0.06	0.04	0.06	0.06
Imperial Co, CA	Moderate	-	100	-	0.00	0.00	0.00	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.00	0.00	0.01	0.02	0.04	0.03	0.04	0.04
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.00	0.02	0.05	0.17	0.28	0.20	0.29	0.29	0.00	0.00	0.02	0.05	0.17	0.28	0.20	0.29	0.29
Jamestown, NY	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03

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Emission Changes a/ by Nonattainment Area

Acetaldehyde 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Jefferson Co, NY	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02
Johnstown, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.00	0.02	0.03	0.13	0.21	0.15	0.21	0.21	0.00	0.00	0.02	0.03	0.13	0.21	0.15	0.21	0.21
Lancaster, PA	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.05	0.08	0.06	0.08	0.08	0.00	0.00	0.01	0.01	0.05	0.08	0.06	0.08	0.08
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.00	0.02	0.04	0.15	0.25	0.18	0.25	0.25	0.00	0.00	0.02	0.04	0.15	0.25	0.18	0.25	0.25
Libby, MT	-	Nonattainment	-	100	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
Liberty-Clairton, PA	-	Nonattainment	-	100	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
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-0.06	0.16	0.36	1.56	2.56	1.83	2.60	2.59	0.00	-0.06	0.16	0.36	1.56	2.56	1.83	2.60	2.59
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-0.05	-0.06	-0.06	-0.01	0.01	-0.01	0.01	0.00	0.00	-0.05	-0.06	-0.06	-0.01	0.01	-0.01	0.01	0.00
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.00	0.02	0.03	0.12	0.20	0.15	0.20	0.20	0.00	0.00	0.02	0.03	0.12	0.20	0.15	0.20	0.20
Macon, GA	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.00	0.00	0.01	0.02	0.04	0.03	0.04	0.04
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.04	0.06	0.04	0.06	0.06	0.00	0.00	0.00	0.01	0.04	0.06	0.04	0.06	0.06
Memphis, TN-AR	Moderate	-	100	-	0.00	0.00	0.02	0.03	0.11	0.19	0.13	0.19	0.19	0.00	0.00	0.02	0.03	0.11	0.19	0.13	0.19	0.19
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.00	0.03	0.05	0.20	0.32	0.23	0.33	0.33	0.00	0.00	0.03	0.05	0.20	0.32	0.23	0.33	0.33
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-0.02	0.24	0.47	1.77	2.87	2.08	2.92	2.91	0.00	-0.02	0.24	0.47	1.77	2.87	2.08	2.92	2.91
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-0.01	0.10	0.20	0.74	1.20	0.87	1.22	1.22	0.00	-0.01	0.10	0.20	0.74	1.20	0.87	1.22	1.22
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.00	0.06	0.12	0.46	0.74	0.54	0.75	0.75	0.00	0.00	0.06	0.12	0.46	0.74	0.54	0.75	0.75
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.00	0.03	0.06	0.23	0.38	0.27	0.38	0.38	0.00	0.00	0.03	0.06	0.23	0.38	0.27	0.38	0.38
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.00	0.02	0.04	0.14	0.24	0.17	0.24	0.24	0.00	0.00	0.02	0.04	0.14	0.24	0.17	0.24	0.24
Providence (All RI), RI	Moderate	-	100	-	0.00	0.00	0.01	0.03	0.11	0.18	0.13	0.18	0.18	0.00	0.00	0.01	0.03	0.11	0.18	0.13	0.18	0.18
Reading, PA	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.04	0.06	0.04	0.06	0.06	0.00	0.00	0.01	0.01	0.04	0.06	0.04	0.06	0.06
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.00	0.01	0.02	0.06	0.10	0.07	0.10	0.10	0.00	0.00	0.01	0.02	0.06	0.10	0.07	0.10	0.10
Rochester, NY	Subpart 1	-	100	-	0.00	0.00	0.02	0.04	0.15	0.25	0.18	0.25	0.25	0.00	0.00	0.02	0.04	0.15	0.25	0.18	0.25	0.25
Rome, GA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02
Sacramento Metro, CA	Serious	-	50	-	0.00	0.00	0.04	0.07	0.27	0.43	0.31	0.44	0.44	0.00	0.00	0.04	0.07	0.27	0.43	0.31	0.44	0.44
San Diego, CA	Subpart 1	-	100	-	0.00	0.00	0.06	0.11	0.43	0.69	0.50	0.71	0.70	0.00	0.00	0.06	0.11	0.43	0.69	0.50	0.71	0.70
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-0.01	0.11	0.21	0.81	1.31	0.95	1.33	1.33	0.00	-0.01	0.11	0.21	0.81	1.31	0.95	1.33	1.33
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	-0.01	0.05	0.11	0.44	0.73	0.52	0.74	0.73	0.00	-0.01	0.05	0.11	0.44	0.73	0.52	0.74	0.73
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.00	0.01	0.03	0.10	0.16	0.12	0.17	0.17	0.00	0.00	0.01	0.03	0.10	0.16	0.12	0.17	0.17
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.00	0.05	0.09	0.34	0.55	0.40	0.56	0.56	0.00	0.00	0.05	0.09	0.34	0.55	0.40	0.56	0.56
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02

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	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.00	0.01	0.02	0.08	0.14	0.10	0.14	0.14	0.00	0.00	0.01	0.02	0.08	0.14	0.10	0.14	0.14
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	-0.01	0.08	0.15	0.58	0.95	0.69	0.96	0.96	0.00	-0.01	0.08	0.15	0.58	0.95	0.69	0.96	0.96
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03
York, PA	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.04	0.06	0.05	0.06	0.06	0.00	0.00	0.01	0.01	0.04	0.06	0.05	0.06	0.06

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-2
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Acetaldehyde 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.02	0.07	0.09	0.20	0.32	0.26	0.35	0.32	0.00	0.03	0.07	0.09	0.20	0.32	0.26	0.34	0.32
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	0.12	0.34	0.44	1.02	1.64	1.36	1.77	1.63	0.00	0.15	0.34	0.45	1.01	1.64	1.36	1.77	1.63
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.05	0.15	0.20	0.46	0.74	0.61	0.80	0.74	0.00	0.07	0.15	0.20	0.46	0.74	0.61	0.80	0.74
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.06	-0.07	-0.07	-0.03	0.01	-0.02	0.01	-0.01	0.00	-0.07	-0.07	-0.07	-0.03	0.01	-0.02	0.01	-0.01
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-1.00	-1.44	-1.60	-1.79	-2.18	-2.12	-2.34	-2.35	0.00	-1.19	-1.47	-1.61	-1.77	-2.17	-2.11	-2.33	-2.34
Birmingham, AL	-	Nonattainment	-	100	0.00	0.02	0.05	0.07	0.16	0.26	0.21	0.28	0.26	0.00	0.02	0.05	0.07	0.16	0.26	0.21	0.28	0.26
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.09	0.26	0.35	0.79	1.28	1.06	1.38	1.27	0.00	0.12	0.27	0.35	0.79	1.28	1.06	1.38	1.27
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.01	0.03	0.04	0.10	0.16	0.13	0.17	0.16	0.00	0.01	0.03	0.04	0.10	0.16	0.13	0.17	0.16
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.02	0.06	0.08	0.18	0.29	0.24	0.32	0.29	0.00	0.03	0.06	0.08	0.18	0.29	0.24	0.32	0.29
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.05	0.08	0.06	0.08	0.07	0.00	0.01	0.02	0.02	0.05	0.08	0.06	0.08	0.07
Charleston, WV	-	Nonattainment	-	100	0.00	0.01	0.01	0.02	0.04	0.07	0.06	0.08	0.07	0.00	0.01	0.01	0.02	0.04	0.07	0.06	0.08	0.07
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.03	0.09	0.12	0.26	0.43	0.35	0.46	0.43	0.00	0.04	0.09	0.12	0.26	0.43	0.35	0.46	0.42
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.01	0.03	0.04	0.09	0.14	0.11	0.15	0.14	0.00	0.01	0.03	0.04	0.09	0.14	0.11	0.15	0.14
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	0.12	0.36	0.47	1.08	1.74	1.44	1.88	1.73	0.00	0.16	0.36	0.47	1.07	1.74	1.44	1.88	1.73
Chico, CA	Subpart 1	-	100	-	0.00	0.00	0.01	0.02	0.04	0.06	0.05	0.06	0.06	0.00	0.01	0.01	0.02	0.04	0.06	0.05	0.06	0.06
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.03	0.10	0.13	0.30	0.49	0.40	0.53	0.49	0.00	0.05	0.10	0.13	0.30	0.49	0.40	0.53	0.49
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.05	0.13	0.18	0.40	0.65	0.54	0.71	0.65	0.00	0.06	0.14	0.18	0.40	0.65	0.54	0.71	0.65
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.03	0.08	0.11	0.25	0.41	0.34	0.44	0.41	0.00	0.04	0.09	0.11	0.25	0.41	0.34	0.44	0.41
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.12	0.35	0.46	1.04	1.69	1.40	1.83	1.68	0.00	0.16	0.35	0.46	1.04	1.68	1.39	1.82	1.68
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.01	0.04	0.05	0.12	0.19	0.16	0.20	0.19	0.00	0.02	0.04	0.05	0.12	0.19	0.16	0.20	0.19
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.06	0.18	0.24	0.54	0.88	0.73	0.95	0.87	0.00	0.08	0.18	0.24	0.54	0.87	0.72	0.95	0.87
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.08	0.24	0.31	0.72	1.16	0.96	1.26	1.16	0.00	0.11	0.24	0.32	0.72	1.16	0.96	1.25	1.15
Door Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.05	0.08	0.06	0.08	0.08	0.00	0.01	0.02	0.02	0.05	0.08	0.06	0.08	0.08
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.03	0.09	0.11	0.26	0.42	0.35	0.45	0.42	0.00	0.04	0.09	0.11	0.26	0.42	0.35	0.45	0.42
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.01	0.04	0.06	0.13	0.20	0.17	0.22	0.20	0.00	0.02	0.04	0.06	0.13	0.20	0.17	0.22	0.20
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.01	0.04	0.05	0.12	0.20	0.16	0.21	0.19	0.00	0.02	0.04	0.05	0.12	0.19	0.16	0.21	0.19
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	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
Hickory, NC	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.03	0.05	0.04	0.05	0.05	0.00	0.00	0.01	0.01	0.03	0.05	0.04	0.05	0.05
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-1.27	-1.71	-1.85	-1.67	-1.73	-1.86	-1.85	-1.97	0.00	-1.51	-1.75	-1.85	-1.65	-1.71	-1.84	-1.83	-1.95
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.05	0.08	0.07	0.09	0.08	0.00	0.01	0.02	0.02	0.05	0.08	0.07	0.09	0.08
Imperial Co, CA	Moderate	-	100	-	0.00	0.00	0.01	0.01	0.03	0.05	0.04	0.06	0.05	0.00	0.00	0.01	0.01	0.03	0.05	0.04	0.06	0.05
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.03	0.08	0.11	0.24	0.39	0.32	0.42	0.39	0.00	0.04	0.08	0.11	0.24	0.39	0.32	0.42	0.39
Jamestown, NY	Subpart 1	-	100	-	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04
Jefferson Co, NY	Moderate	-	100	-	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.03

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Acetaldehyde 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Johnstown, PA	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	0.00	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.02	0.06	0.08	0.18	0.29	0.24	0.31	0.29	0.00	0.03	0.06	0.08	0.18	0.29	0.24	0.31	0.29
Lancaster, PA	-	Nonattainment	-	100	0.00	0.01	0.02	0.03	0.07	0.11	0.09	0.12	0.11	0.00	0.01	0.02	0.03	0.07	0.11	0.09	0.12	0.11
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.03	0.07	0.10	0.22	0.36	0.30	0.39	0.36	0.00	0.03	0.08	0.10	0.22	0.36	0.30	0.39	0.36
Libby, MT	-	Nonattainment	-	100	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
Liberty-Clairton, PA	-	Nonattainment	-	100	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
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	0.15	0.60	0.83	2.10	3.48	2.84	3.76	3.44	0.00	0.21	0.60	0.83	2.10	3.47	2.84	3.76	3.43
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-0.10	-0.13	-0.13	-0.10	-0.08	-0.10	-0.09	-0.10	0.00	-0.12	-0.13	-0.14	-0.10	-0.08	-0.10	-0.08	-0.10
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.02	0.06	0.07	0.17	0.27	0.23	0.30	0.27	0.00	0.03	0.06	0.07	0.17	0.27	0.23	0.29	0.27
Macon, GA	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.03	0.05	0.04	0.06	0.05	0.00	0.00	0.01	0.01	0.03	0.05	0.04	0.06	0.05
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.05	0.08	0.07	0.09	0.08	0.00	0.01	0.02	0.02	0.05	0.08	0.07	0.09	0.08
Memphis, TN-AR	Moderate	-	100	-	0.00	0.02	0.05	0.07	0.16	0.26	0.21	0.28	0.25	0.00	0.02	0.05	0.07	0.16	0.26	0.21	0.28	0.25
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.03	0.09	0.12	0.28	0.44	0.37	0.48	0.44	0.00	0.04	0.09	0.12	0.27	0.44	0.37	0.48	0.44
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.03
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	0.28	0.80	1.06	2.43	3.93	3.25	4.25	3.91	0.00	0.37	0.82	1.07	2.43	3.92	3.25	4.24	3.90
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	0.12	0.34	0.45	1.02	1.65	1.36	1.78	1.64	0.00	0.15	0.34	0.45	1.02	1.64	1.36	1.78	1.64
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.08	0.22	0.30	0.68	1.10	0.91	1.18	1.09	0.00	0.10	0.23	0.30	0.68	1.09	0.91	1.18	1.09
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.04	0.10	0.14	0.32	0.51	0.42	0.55	0.51	0.00	0.05	0.11	0.14	0.32	0.51	0.42	0.55	0.51
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.02	0.07	0.09	0.20	0.33	0.27	0.36	0.33	0.00	0.03	0.07	0.09	0.20	0.33	0.27	0.36	0.33
Providence (All RI), RI	Moderate	-	100	-	0.00	0.02	0.05	0.07	0.15	0.24	0.20	0.26	0.24	0.00	0.02	0.05	0.07	0.15	0.24	0.20	0.26	0.24
Reading, PA	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.05	0.08	0.07	0.09	0.08	0.00	0.01	0.02	0.02	0.05	0.08	0.07	0.09	0.08
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.01	0.03	0.04	0.09	0.14	0.12	0.15	0.14	0.00	0.01	0.03	0.04	0.09	0.14	0.12	0.15	0.14
Rochester, NY	Subpart 1	-	100	-	0.00	0.02	0.07	0.09	0.21	0.34	0.28	0.36	0.34	0.00	0.03	0.07	0.09	0.21	0.34	0.28	0.36	0.33
Rome, GA	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.03
Sacramento Metro, CA	Serious	-	50	-	0.00	0.04	0.13	0.17	0.39	0.63	0.52	0.68	0.62	0.00	0.06	0.13	0.17	0.39	0.63	0.52	0.68	0.62
San Diego, CA	Subpart 1	-	100	-	0.00	0.07	0.20	0.27	0.61	0.99	0.82	1.07	0.99	0.00	0.09	0.21	0.27	0.61	0.99	0.82	1.07	0.99
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	0.13	0.38	0.50	1.14	1.84	1.52	1.99	1.83	0.00	0.17	0.38	0.50	1.13	1.83	1.52	1.98	1.82
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.05	0.18	0.25	0.62	1.01	0.83	1.10	1.00	0.00	0.07	0.19	0.25	0.62	1.01	0.83	1.10	1.00
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.02	0.05	0.06	0.14	0.22	0.19	0.24	0.22	0.00	0.02	0.05	0.06	0.14	0.22	0.19	0.24	0.22
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.05	0.15	0.20	0.47	0.75	0.62	0.82	0.75	0.00	0.07	0.16	0.20	0.47	0.75	0.62	0.82	0.75
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.02	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.02
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.01	0.04	0.05	0.12	0.20	0.16	0.21	0.19	0.00	0.02	0.04	0.05	0.12	0.19	0.16	0.21	0.19

**Table C-2
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Acetaldehyde 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.09	0.27	0.36	0.82	1.33	1.10	1.44	1.32	0.00	0.12	0.28	0.36	0.82	1.32	1.10	1.43	1.32
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04
York, PA	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.05	0.09	0.07	0.09	0.09	0.00	0.01	0.02	0.02	0.05	0.09	0.07	0.09	0.09

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-3
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Acetaldehyde 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.12	0.22	0.24	0.06	-0.02	-0.03	-0.14	-0.12	0.00	0.19	0.23	0.24	0.05	-0.03	-0.04	-0.15	-0.13
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.01	0.03	0.03	0.01	0.00	0.00	-0.02	-0.01	0.00	0.02	0.03	0.03	0.01	0.00	-0.01	-0.02	-0.01
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.02	0.03	0.03	0.01	0.00	0.00	-0.02	-0.02	0.00	0.03	0.03	0.03	0.01	0.00	-0.01	-0.02	-0.02
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	0.66	1.18	1.27	0.33	-0.09	-0.17	-0.74	-0.62	0.00	1.02	1.22	1.25	0.28	-0.16	-0.23	-0.81	-0.68
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.29	0.52	0.56	0.15	-0.04	-0.08	-0.33	-0.27	0.00	0.45	0.54	0.56	0.12	-0.07	-0.10	-0.36	-0.30
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.09	-0.11	-0.12	-0.26	-0.36	-0.37	-0.46	-0.44	0.00	-0.13	-0.11	-0.12	-0.25	-0.35	-0.36	-0.45	-0.43
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-2.11	-3.03	-3.30	-3.87	-4.64	-4.63	-5.14	-5.03	0.00	-3.04	-3.15	-3.28	-3.74	-4.48	-4.48	-4.96	-4.86
Birmingham, AL	-	Nonattainment	-	100	0.00	0.10	0.17	0.19	0.05	-0.01	-0.03	-0.11	-0.09	0.00	0.15	0.18	0.18	0.04	-0.02	-0.03	-0.12	-0.10
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.49	0.88	0.95	0.25	-0.07	-0.13	-0.55	-0.46	0.00	0.76	0.91	0.94	0.21	-0.12	-0.18	-0.60	-0.51
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.06	0.11	0.12	0.03	-0.01	-0.02	-0.07	-0.06	0.00	0.10	0.11	0.12	0.03	-0.01	-0.02	-0.08	-0.06
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.11	0.20	0.21	0.06	-0.02	-0.03	-0.12	-0.10	0.00	0.17	0.20	0.21	0.05	-0.03	-0.04	-0.13	-0.11
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.03	0.05	0.05	0.01	0.00	-0.01	-0.03	-0.03	0.00	0.04	0.05	0.05	0.01	-0.01	-0.01	-0.03	-0.03
Charleston, WV	-	Nonattainment	-	100	0.00	0.03	0.05	0.05	0.01	0.00	-0.01	-0.03	-0.02	0.00	0.04	0.05	0.05	0.01	-0.01	-0.01	-0.03	-0.03
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.17	0.31	0.33	0.09	-0.02	-0.04	-0.19	-0.16	0.00	0.26	0.32	0.33	0.07	-0.04	-0.06	-0.21	-0.18
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.05	0.09	0.10	0.03	-0.01	-0.01	-0.06	-0.05	0.00	0.08	0.10	0.10	0.02	-0.01	-0.02	-0.06	-0.05
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	0.68	1.22	1.31	0.35	-0.10	-0.18	-0.76	-0.64	0.00	1.05	1.26	1.30	0.29	-0.16	-0.24	-0.83	-0.71
Chico, CA	Subpart 1	-	100	-	0.00	0.03	0.05	0.05	0.01	0.00	-0.01	-0.03	-0.02	0.00	0.04	0.05	0.05	0.01	-0.01	-0.01	-0.03	-0.03
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.19	0.34	0.36	0.10	-0.03	-0.05	-0.21	-0.18	0.00	0.29	0.35	0.36	0.08	-0.04	-0.07	-0.23	-0.20
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.25	0.44	0.47	0.12	-0.04	-0.06	-0.27	-0.23	0.00	0.38	0.45	0.47	0.10	-0.06	-0.09	-0.30	-0.26
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.17	0.30	0.32	0.08	-0.02	-0.04	-0.19	-0.16	0.00	0.26	0.31	0.32	0.07	-0.04	-0.06	-0.20	-0.17
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.69	1.24	1.33	0.35	-0.10	-0.18	-0.77	-0.65	0.00	1.07	1.28	1.32	0.30	-0.16	-0.25	-0.85	-0.72
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.07	0.12	0.13	0.04	-0.01	-0.02	-0.08	-0.07	0.00	0.11	0.13	0.13	0.03	-0.02	-0.02	-0.09	-0.07
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.36	0.64	0.68	0.18	-0.05	-0.09	-0.40	-0.33	0.00	0.55	0.66	0.68	0.15	-0.08	-0.13	-0.43	-0.37
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.45	0.80	0.86	0.23	-0.06	-0.12	-0.50	-0.42	0.00	0.69	0.82	0.85	0.19	-0.11	-0.16	-0.54	-0.46
Door Co, WI	Subpart 1	-	100	-	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.03	0.05	0.06	0.01	0.00	-0.01	-0.03	-0.03	0.00	0.05	0.05	0.06	0.01	-0.01	-0.01	-0.04	-0.03
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.16	0.28	0.30	0.08	-0.02	-0.04	-0.18	-0.15	0.00	0.24	0.29	0.30	0.07	-0.04	-0.06	-0.19	-0.16
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.08	0.14	0.15	0.04	-0.01	-0.02	-0.09	-0.07	0.00	0.12	0.14	0.15	0.03	-0.02	-0.03	-0.09	-0.08
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.08	0.14	0.15	0.04	-0.01	-0.02	-0.09	-0.07	0.00	0.12	0.14	0.15	0.03	-0.02	-0.03	-0.09	-0.08
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	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
Hickory, NC	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.01	0.00	0.00	-0.02	-0.02	0.00	0.03	0.03	0.03	0.01	0.00	-0.01	-0.02	-0.02
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-2.39	-3.24	-3.55	-5.04	-6.41	-6.45	-7.57	-7.34	0.00	-3.38	-3.38	-3.53	-4.90	-6.24	-6.29	-7.39	-7.16
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	0.03	0.05	0.06	0.02	0.00	-0.01	-0.03	-0.03	0.00	0.05	0.06	0.06	0.01	-0.01	-0.01	-0.04	-0.03
Imperial Co, CA	Moderate	-	100	-	0.00	0.02	0.04	0.04	0.01	0.00	-0.01	-0.02	-0.02	0.00	0.03	0.04	0.04	0.01	-0.01	-0.01	-0.03	-0.02
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.15	0.28	0.30	0.08	-0.02	-0.04	-0.17	-0.15	0.00	0.24	0.29	0.30	0.07	-0.04	-0.06	-0.19	-0.16
Jamestown, NY	Subpart 1	-	100	-	0.00	0.01	0.03	0.03	0.01	0.00	0.00	-0.02	-0.01	0.00	0.02	0.03	0.03	0.01	0.00	-0.01	-0.02	-0.02
Jefferson Co, NY	Moderate	-	100	-	0.00	0.01	0.02	0.02	0.01	0.00	0.00	-0.01	-0.01	0.00	0.02	0.02	0.02	0.01	0.00	0.00	-0.01	-0.01

**Table C-3
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Acetaldehyde 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Johnstown, PA	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.01	0.00	0.00	-0.01	-0.01	0.00	0.02	0.02	0.02	0.00	0.00	0.00	-0.01	-0.01
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.04	-0.05	-0.06	-0.09	-0.11	-0.11	-0.13	-0.13	0.00	-0.06	-0.06	-0.06	-0.09	-0.11	-0.11	-0.13	-0.13
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.12	0.21	0.23	0.06	-0.02	-0.03	-0.13	-0.11	0.00	0.18	0.22	0.22	0.05	-0.03	-0.04	-0.14	-0.12
Lancaster, PA	-	Nonattainment	-	100	0.00	0.04	0.08	0.08	0.02	-0.01	-0.01	-0.05	-0.04	0.00	0.07	0.08	0.08	0.02	-0.01	-0.02	-0.05	-0.05
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.15	0.27	0.29	0.08	-0.02	-0.04	-0.17	-0.14	0.00	0.24	0.28	0.29	0.07	-0.04	-0.05	-0.19	-0.16
Libby, MT	-	Nonattainment	-	100	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
Liberty-Clairton, PA	-	Nonattainment	-	100	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
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	1.25	2.32	2.50	0.31	-0.75	-0.92	-2.26	-1.98	0.00	1.96	2.40	2.47	0.21	-0.87	-1.05	-2.40	-2.12
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-0.17	-0.22	-0.24	-0.40	-0.53	-0.54	-0.65	-0.63	0.00	-0.24	-0.23	-0.24	-0.39	-0.52	-0.53	-0.64	-0.62
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.10	0.18	0.20	0.05	-0.01	-0.03	-0.11	-0.10	0.00	0.16	0.19	0.19	0.04	-0.02	-0.04	-0.12	-0.11
Macon, GA	-	Nonattainment	-	100	0.00	0.02	0.03	0.04	0.01	0.00	0.00	-0.02	-0.02	0.00	0.03	0.04	0.04	0.01	0.00	-0.01	-0.02	-0.02
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.01	0.02	0.02	0.00	0.00	0.00	-0.01	-0.01	0.00	0.01	0.02	0.02	0.00	0.00	0.00	-0.01	-0.01
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.01	0.02	0.02	0.01	0.00	0.00	-0.01	-0.01	0.00	0.02	0.02	0.02	0.00	0.00	0.00	-0.01	-0.01
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.03	0.05	0.06	0.02	0.00	-0.01	-0.03	-0.03	0.00	0.05	0.06	0.06	0.01	-0.01	-0.01	-0.04	-0.03
Memphis, TN-AR	Moderate	-	100	-	0.00	0.09	0.17	0.18	0.05	-0.01	-0.02	-0.11	-0.09	0.00	0.15	0.17	0.18	0.04	-0.02	-0.03	-0.12	-0.10
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.17	0.31	0.33	0.09	-0.02	-0.04	-0.19	-0.16	0.00	0.27	0.32	0.33	0.07	-0.04	-0.06	-0.21	-0.18
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.01	0.03	0.03	0.01	0.00	0.00	-0.02	-0.01	0.00	0.02	0.03	0.03	0.01	0.00	-0.01	-0.02	-0.02
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	1.50	2.69	2.90	0.77	-0.22	-0.39	-1.68	-1.41	0.00	2.32	2.78	2.87	0.64	-0.36	-0.53	-1.84	-1.57
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.01	0.02	0.03	0.01	0.00	0.00	-0.02	-0.01	0.00	0.02	0.03	0.03	0.01	0.00	0.00	-0.02	-0.01
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	0.63	1.12	1.20	0.32	-0.09	-0.16	-0.70	-0.59	0.00	0.97	1.16	1.19	0.27	-0.15	-0.22	-0.76	-0.65
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.50	0.89	0.96	0.25	-0.07	-0.13	-0.56	-0.47	0.00	0.77	0.92	0.95	0.21	-0.12	-0.18	-0.61	-0.52
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.19	0.34	0.37	0.10	-0.03	-0.05	-0.21	-0.18	0.00	0.29	0.35	0.36	0.08	-0.05	-0.07	-0.23	-0.20
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.14	0.24	0.26	0.07	-0.02	-0.04	-0.15	-0.13	0.00	0.21	0.25	0.26	0.06	-0.03	-0.05	-0.17	-0.14
Providence (All RI), RI	Moderate	-	100	-	0.00	0.10	0.17	0.18	0.05	-0.01	-0.02	-0.11	-0.09	0.00	0.15	0.18	0.18	0.04	-0.02	-0.03	-0.12	-0.10
Reading, PA	-	Nonattainment	-	100	0.00	0.03	0.06	0.06	0.02	0.00	-0.01	-0.04	-0.03	0.00	0.05	0.06	0.06	0.01	-0.01	-0.01	-0.04	-0.03
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.06	0.11	0.12	0.03	-0.01	-0.02	-0.07	-0.06	0.00	0.10	0.11	0.12	0.03	-0.01	-0.02	-0.08	-0.06
Rochester, NY	Subpart 1	-	100	-	0.00	0.13	0.23	0.25	0.07	-0.02	-0.03	-0.14	-0.12	0.00	0.20	0.24	0.24	0.05	-0.03	-0.05	-0.16	-0.13
Rome, GA	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.01	0.00	0.00	-0.01	-0.01	0.00	0.02	0.02	0.02	0.00	0.00	0.00	-0.01	-0.01
Sacramento Metro, CA	Serious	-	50	-	0.00	0.28	0.49	0.53	0.14	-0.04	-0.07	-0.31	-0.26	0.00	0.43	0.51	0.52	0.12	-0.07	-0.10	-0.34	-0.29
San Diego, CA	Subpart 1	-	100	-	0.00	0.42	0.75	0.80	0.21	-0.06	-0.11	-0.47	-0.39	0.00	0.64	0.77	0.80	0.18	-0.10	-0.15	-0.51	-0.43
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	0.74	1.32	1.43	0.38	-0.11	-0.19	-0.83	-0.69	0.00	1.14	1.37	1.41	0.32	-0.18	-0.26	-0.91	-0.77
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.40	0.74	0.79	0.14	-0.18	-0.23	-0.63	-0.55	0.00	0.63	0.76	0.78	0.10	-0.22	-0.27	-0.67	-0.59
Sheboygan, WI	Moderate	-	100	-	0.00	0.01	0.02	0.02	0.01	0.00	0.00	-0.01	-0.01	0.00	0.02	0.02	0.02	0.00	0.00	0.00	-0.01	-0.01
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.09	0.15	0.16	0.04	-0.01	-0.02	-0.10	-0.08	0.00	0.13	0.16	0.16	0.04	-0.02	-0.03	-0.10	-0.09
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.28	0.50	0.54	0.14	-0.04	-0.07	-0.31	-0.26	0.00	0.43	0.52	0.53	0.12	-0.07	-0.10	-0.34	-0.29
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.00	0.00	0.00	-0.01	-0.01	0.00	0.01	0.02	0.02	0.00	0.00	0.00	-0.01	-0.01
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.08	0.15	0.16	0.04	-0.02	-0.03	-0.10	-0.09	0.00	0.12	0.15	0.15	0.03	-0.03	-0.04	-0.11	-0.10

**Table C-3
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Acetaldehyde 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.53	0.95	1.03	0.27	-0.08	-0.14	-0.60	-0.50	0.00	0.82	0.99	1.02	0.23	-0.13	-0.19	-0.65	-0.55
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.01	0.02	0.03	0.01	0.00	0.00	-0.02	-0.01	0.00	0.02	0.03	0.03	0.01	0.00	0.00	-0.02	-0.01
York, PA	-	Nonattainment	-	100	0.00	0.03	0.06	0.06	0.02	0.00	-0.01	-0.04	-0.03	0.00	0.05	0.06	0.06	0.01	-0.01	-0.01	-0.04	-0.04

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-4
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Acetaldehyde 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.23	0.39	0.41	-0.01	-0.27	-0.28	-0.56	-0.47	0.00	0.37	0.39	0.39	-0.06	-0.33	-0.34	-0.62	-0.53
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.03	0.05	0.05	0.00	-0.03	-0.03	-0.07	-0.06	0.00	0.04	0.05	0.05	-0.01	-0.04	-0.04	-0.07	-0.06
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.03	0.06	0.06	0.00	-0.04	-0.04	-0.08	-0.07	0.00	0.05	0.06	0.05	-0.01	-0.05	-0.05	-0.09	-0.08
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	1.22	2.09	2.20	-0.06	-1.43	-1.51	-2.98	-2.52	0.00	1.97	2.09	2.07	-0.31	-1.73	-1.81	-3.32	-2.85
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.54	0.93	0.98	-0.03	-0.64	-0.67	-1.32	-1.12	0.00	0.87	0.93	0.92	-0.14	-0.77	-0.80	-1.47	-1.26
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.14	-0.16	-0.18	-0.48	-0.71	-0.72	-0.93	-0.87	0.00	-0.18	-0.17	-0.18	-0.48	-0.71	-0.72	-0.93	-0.87
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-3.43	-4.90	-5.33	-6.32	-7.54	-7.57	-8.40	-8.19	0.00	-5.03	-5.02	-5.18	-5.95	-7.11	-7.14	-7.93	-7.72
Birmingham, AL	-	Nonattainment	-	100	0.00	0.18	0.31	0.32	-0.01	-0.21	-0.22	-0.44	-0.37	0.00	0.29	0.31	0.30	-0.04	-0.25	-0.26	-0.49	-0.42
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.92	1.57	1.65	-0.04	-1.07	-1.13	-2.23	-1.89	0.00	1.48	1.57	1.55	-0.23	-1.30	-1.36	-2.49	-2.13
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.11	0.20	0.21	-0.01	-0.13	-0.14	-0.28	-0.24	0.00	0.19	0.20	0.19	-0.03	-0.16	-0.17	-0.31	-0.27
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.20	0.35	0.37	-0.01	-0.24	-0.25	-0.50	-0.42	0.00	0.33	0.35	0.35	-0.05	-0.29	-0.30	-0.56	-0.48
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.05	0.09	0.09	0.00	-0.06	-0.06	-0.13	-0.11	0.00	0.08	0.09	0.09	-0.01	-0.07	-0.08	-0.14	-0.12
Charleston, WV	-	Nonattainment	-	100	0.00	0.05	0.08	0.09	0.00	-0.06	-0.06	-0.12	-0.10	0.00	0.08	0.08	0.08	-0.01	-0.07	-0.07	-0.13	-0.11
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.32	0.54	0.57	-0.01	-0.37	-0.39	-0.77	-0.65	0.00	0.51	0.54	0.54	-0.08	-0.45	-0.47	-0.86	-0.74
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.10	0.16	0.17	0.00	-0.11	-0.12	-0.23	-0.20	0.00	0.16	0.16	0.16	-0.02	-0.14	-0.14	-0.26	-0.22
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	1.27	2.16	2.28	-0.06	-1.48	-1.56	-3.08	-2.61	0.00	2.04	2.17	2.15	-0.32	-1.79	-1.87	-3.43	-2.95
Chico, CA	Subpart 1	-	100	-	0.00	0.05	0.08	0.09	0.00	-0.06	-0.06	-0.12	-0.10	0.00	0.08	0.08	0.08	-0.01	-0.07	-0.07	-0.13	-0.11
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.35	0.60	0.63	-0.02	-0.41	-0.43	-0.85	-0.72	0.00	0.56	0.60	0.59	-0.09	-0.50	-0.52	-0.95	-0.81
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.46	0.78	0.82	-0.02	-0.53	-0.56	-1.11	-0.94	0.00	0.73	0.78	0.77	-0.11	-0.65	-0.67	-1.24	-1.06
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.31	0.53	0.55	-0.01	-0.36	-0.38	-0.75	-0.63	0.00	0.50	0.53	0.52	-0.08	-0.44	-0.46	-0.84	-0.72
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	1.29	2.20	2.31	-0.06	-1.51	-1.58	-3.13	-2.65	0.00	2.07	2.20	2.18	-0.32	-1.82	-1.90	-3.49	-2.99
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.13	0.22	0.23	-0.01	-0.15	-0.16	-0.32	-0.27	0.00	0.21	0.22	0.22	-0.03	-0.18	-0.19	-0.35	-0.30
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.66	1.13	1.19	-0.03	-0.77	-0.81	-1.61	-1.36	0.00	1.06	1.13	1.12	-0.16	-0.94	-0.98	-1.79	-1.54
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.83	1.41	1.49	-0.04	-0.97	-1.02	-2.01	-1.70	0.00	1.33	1.42	1.40	-0.21	-1.17	-1.22	-2.24	-1.92
Door Co, WI	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.05	0.09	0.10	0.00	-0.06	-0.07	-0.13	-0.11	0.00	0.09	0.09	0.09	-0.01	-0.08	-0.08	-0.15	-0.13
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.29	0.50	0.53	-0.01	-0.34	-0.36	-0.71	-0.60	0.00	0.47	0.50	0.49	-0.07	-0.41	-0.43	-0.79	-0.68
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.14	0.24	0.26	-0.01	-0.17	-0.18	-0.35	-0.29	0.00	0.23	0.24	0.24	-0.04	-0.20	-0.21	-0.39	-0.33
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.14	0.24	0.26	-0.01	-0.17	-0.18	-0.35	-0.29	0.00	0.23	0.25	0.24	-0.04	-0.20	-0.21	-0.39	-0.33
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	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
Hickory, NC	-	Nonattainment	-	100	0.00	0.03	0.05	0.06	0.00	-0.04	-0.04	-0.08	-0.06	0.00	0.05	0.05	0.05	-0.01	-0.04	-0.05	-0.08	-0.07
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-3.77	-5.12	-5.61	-8.67	-11.38	-11.48	-13.73	-13.08	0.00	-5.39	-5.28	-5.50	-8.36	-11.02	-11.11	-13.33	-12.70
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	0.06	0.10	0.10	0.00	-0.07	-0.07	-0.14	-0.12	0.00	0.09	0.10	0.10	-0.01	-0.08	-0.08	-0.15	-0.13
Imperial Co, CA	Moderate	-	100	-	0.00	0.04	0.07	0.07	0.00	-0.05	-0.05	-0.10	-0.08	0.00	0.07	0.07	0.07	-0.01	-0.06	-0.06	-0.11	-0.09
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.29	0.49	0.52	-0.01	-0.34	-0.35	-0.70	-0.59	0.00	0.46	0.49	0.49	-0.07	-0.41	-0.43	-0.78	-0.67
Jamestown, NY	Subpart 1	-	100	-	0.00	0.03	0.05	0.05	0.00	-0.03	-0.03	-0.07	-0.06	0.00	0.04	0.05	0.05	-0.01	-0.04	-0.04	-0.07	-0.06
Jefferson Co, NY	Moderate	-	100	-	0.00	0.02	0.04	0.04	0.00	-0.03	-0.03	-0.05	-0.05	0.00	0.04	0.04	0.04	-0.01	-0.03	-0.03	-0.06	-0.05

Table C-4
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Acetaldehyde 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Johnstown, PA	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.00	-0.02	-0.02	-0.05	-0.04	0.00	0.03	0.03	0.03	0.00	-0.03	-0.03	-0.05	-0.04
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.06	-0.08	-0.09	-0.15	-0.20	-0.21	-0.25	-0.24	0.00	-0.09	-0.09	-0.09	-0.15	-0.20	-0.20	-0.24	-0.23
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.22	0.37	0.39	-0.01	-0.26	-0.27	-0.53	-0.45	0.00	0.35	0.37	0.37	-0.05	-0.31	-0.32	-0.59	-0.51
Lancaster, PA	-	Nonattainment	-	100	0.00	0.08	0.14	0.15	0.00	-0.09	-0.10	-0.20	-0.17	0.00	0.13	0.14	0.14	-0.02	-0.11	-0.12	-0.22	-0.19
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.28	0.48	0.51	-0.01	-0.33	-0.35	-0.69	-0.58	0.00	0.46	0.48	0.48	-0.07	-0.40	-0.42	-0.77	-0.66
Libby, MT	-	Nonattainment	-	100	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
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	2.38	4.18	4.38	-0.86	-4.12	-4.29	-7.73	-6.66	0.00	3.89	4.17	4.11	-1.38	-4.75	-4.93	-8.45	-7.35
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-0.26	-0.34	-0.37	-0.72	-1.00	-1.01	-1.25	-1.18	0.00	-0.36	-0.35	-0.37	-0.70	-0.98	-0.99	-1.23	-1.16
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.19	0.32	0.34	-0.01	-0.22	-0.23	-0.46	-0.39	0.00	0.30	0.32	0.32	-0.05	-0.27	-0.28	-0.51	-0.44
Macon, GA	-	Nonattainment	-	100	0.00	0.04	0.06	0.06	0.00	-0.04	-0.04	-0.09	-0.07	0.00	0.06	0.06	0.06	-0.01	-0.05	-0.05	-0.10	-0.08
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.02	0.03	0.03	0.00	-0.02	-0.02	-0.04	-0.04	0.00	0.03	0.03	0.03	0.00	-0.03	-0.03	-0.05	-0.04
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.02	0.04	0.04	0.00	-0.03	-0.03	-0.05	-0.04	0.00	0.03	0.04	0.04	-0.01	-0.03	-0.03	-0.06	-0.05
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.06	0.10	0.10	0.00	-0.07	-0.07	-0.14	-0.12	0.00	0.09	0.10	0.10	-0.01	-0.08	-0.08	-0.15	-0.13
Memphis, TN-AR	Moderate	-	100	-	0.00	0.17	0.30	0.31	-0.01	-0.20	-0.22	-0.43	-0.36	0.00	0.28	0.30	0.30	-0.04	-0.25	-0.26	-0.47	-0.41
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.32	0.55	0.57	-0.02	-0.37	-0.39	-0.78	-0.66	0.00	0.51	0.55	0.54	-0.08	-0.45	-0.47	-0.87	-0.74
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.03	0.05	0.05	0.00	-0.03	-0.03	-0.07	-0.06	0.00	0.04	0.05	0.05	-0.01	-0.04	-0.04	-0.07	-0.06
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	2.79	4.78	5.03	-0.13	-3.27	-3.44	-6.81	-5.75	0.00	4.50	4.78	4.74	-0.70	-3.96	-4.13	-7.59	-6.51
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.03	0.04	0.05	0.00	-0.03	-0.03	-0.06	-0.05	0.00	0.04	0.04	0.04	-0.01	-0.04	-0.04	-0.07	-0.06
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	1.16	1.99	2.09	-0.05	-1.36	-1.43	-2.83	-2.39	0.00	1.87	1.99	1.97	-0.29	-1.65	-1.72	-3.15	-2.70
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.92	1.58	1.66	-0.04	-1.08	-1.14	-2.25	-1.90	0.00	1.49	1.58	1.57	-0.23	-1.31	-1.37	-2.51	-2.15
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.35	0.60	0.63	-0.02	-0.41	-0.43	-0.86	-0.73	0.00	0.57	0.60	0.60	-0.09	-0.50	-0.52	-0.96	-0.82
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.25	0.43	0.45	-0.01	-0.30	-0.31	-0.61	-0.52	0.00	0.41	0.43	0.43	-0.06	-0.36	-0.37	-0.68	-0.59
Providence (All RI), RI	Moderate	-	100	-	0.00	0.18	0.30	0.32	-0.01	-0.21	-0.22	-0.43	-0.37	0.00	0.29	0.30	0.30	-0.04	-0.25	-0.26	-0.48	-0.41
Reading, PA	-	Nonattainment	-	100	0.00	0.06	0.10	0.11	0.00	-0.07	-0.07	-0.14	-0.12	0.00	0.10	0.10	0.10	-0.01	-0.08	-0.09	-0.16	-0.14
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.11	0.20	0.21	-0.01	-0.13	-0.14	-0.28	-0.24	0.00	0.19	0.20	0.20	-0.03	-0.16	-0.17	-0.31	-0.27
Rochester, NY	Subpart 1	-	100	-	0.00	0.24	0.41	0.43	-0.01	-0.28	-0.29	-0.58	-0.49	0.00	0.38	0.41	0.40	-0.06	-0.34	-0.35	-0.65	-0.55
Rome, GA	-	Nonattainment	-	100	0.00	0.02	0.04	0.04	0.00	-0.02	-0.03	-0.05	-0.04	0.00	0.03	0.04	0.04	-0.01	-0.03	-0.03	-0.06	-0.05
Sacramento Metro, CA	Serious	-	50	-	0.00	0.51	0.87	0.92	-0.02	-0.60	-0.63	-1.25	-1.05	0.00	0.82	0.88	0.87	-0.13	-0.72	-0.76	-1.39	-1.19
San Diego, CA	Subpart 1	-	100	-	0.00	0.78	1.33	1.40	-0.04	-0.91	-0.96	-1.89	-1.60	0.00	1.25	1.33	1.32	-0.19	-1.10	-1.15	-2.11	-1.81
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	1.37	2.35	2.47	-0.07	-1.61	-1.69	-3.35	-2.83	0.00	2.21	2.35	2.33	-0.34	-1.95	-2.03	-3.73	-3.20
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.76	1.32	1.39	-0.19	-1.17	-1.22	-2.25	-1.93	0.00	1.23	1.32	1.30	-0.35	-1.36	-1.41	-2.47	-2.14
Sheboygan, WI	Moderate	-	100	-	0.00	0.02	0.04	0.04	0.00	-0.03	-0.03	-0.05	-0.04	0.00	0.03	0.04	0.04	-0.01	-0.03	-0.03	-0.06	-0.05
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.16	0.27	0.29	-0.01	-0.19	-0.20	-0.39	-0.33	0.00	0.26	0.27	0.27	-0.04	-0.22	-0.23	-0.43	-0.37
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.52	0.89	0.94	-0.02	-0.61	-0.64	-1.27	-1.07	0.00	0.84	0.89	0.88	-0.13	-0.74	-0.77	-1.41	-1.21
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.00	-0.02	-0.02	-0.04	-0.03	0.00	0.03	0.03	0.03	0.00	-0.02	-0.02	-0.04	-0.04
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.15	0.26	0.27	-0.02	-0.20	-0.21	-0.40	-0.34	0.00	0.24	0.26	0.26	-0.05	-0.24	-0.25	-0.44	-0.38

**Table C-4
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Acetaldehyde 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.99	1.69	1.78	-0.05	-1.16	-1.22	-2.41	-2.04	0.00	1.59	1.69	1.68	-0.25	-1.40	-1.46	-2.68	-2.30
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.03	0.04	0.05	0.00	-0.03	-0.03	-0.06	-0.05	0.00	0.04	0.04	0.04	-0.01	-0.04	-0.04	-0.07	-0.06
York, PA	-	Nonattainment	-	100	0.00	0.06	0.11	0.11	0.00	-0.07	-0.08	-0.15	-0.13	0.00	0.10	0.11	0.11	-0.02	-0.09	-0.09	-0.17	-0.15

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

**Table C-5
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Acrolein 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Rochester, NY	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.04	0.06	0.05	0.07	0.07	0.00	0.00	0.00	0.01	0.04	0.06	0.05	0.07	0.07
Rome, GA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
Sacramento Metro, CA	Serious	-	50	-	0.00	0.00	0.01	0.01	0.06	0.11	0.09	0.12	0.12	0.00	0.00	0.01	0.01	0.06	0.11	0.09	0.12	0.12
San Diego, CA	Subpart 1	-	100	-	0.00	0.00	0.01	0.02	0.10	0.18	0.14	0.19	0.19	0.00	0.00	0.01	0.02	0.10	0.18	0.14	0.19	0.19
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	0.00	0.02	0.03	0.19	0.34	0.26	0.36	0.35	0.00	0.00	0.02	0.03	0.19	0.34	0.26	0.36	0.35
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.00	0.01	0.02	0.11	0.19	0.15	0.20	0.20	0.00	0.00	0.01	0.02	0.11	0.19	0.15	0.20	0.20
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.02	0.04	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.02	0.04	0.03	0.04	0.04
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.00	0.01	0.01	0.08	0.14	0.11	0.15	0.15	0.00	0.00	0.01	0.01	0.08	0.14	0.11	0.15	0.15
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.00	0.00	0.00	0.02	0.04	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.02	0.04	0.03	0.04	0.04
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.00	0.01	0.03	0.14	0.24	0.19	0.26	0.25	0.00	0.00	0.01	0.03	0.14	0.24	0.19	0.26	0.25
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
York, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

**Table C-6
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Acrolein 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Diego, CA	Subpart 1	-	100	-	0.00	0.01	0.02	0.04	0.22	0.38	0.33	0.45	0.41	0.00	0.01	0.02	0.04	0.22	0.38	0.33	0.45	0.38
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	0.02	0.04	0.07	0.40	0.71	0.61	0.82	0.77	0.00	0.02	0.04	0.07	0.40	0.71	0.61	0.83	0.71
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.01	0.02	0.04	0.23	0.41	0.35	0.47	0.44	0.00	0.01	0.02	0.04	0.23	0.41	0.35	0.47	0.41
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.00	0.01	0.01	0.05	0.09	0.07	0.10	0.09	0.00	0.00	0.01	0.01	0.05	0.09	0.08	0.10	0.09
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.01	0.02	0.03	0.17	0.29	0.25	0.34	0.32	0.00	0.01	0.02	0.03	0.17	0.29	0.25	0.34	0.29
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.00	0.00	0.01	0.04	0.08	0.07	0.09	0.08	0.00	0.00	0.00	0.01	0.04	0.08	0.07	0.09	0.08
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.02	0.03	0.05	0.29	0.51	0.44	0.60	0.56	0.00	0.02	0.03	0.05	0.29	0.51	0.44	0.60	0.51
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02
York, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.03

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

**Table C-7
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Acrolein 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Diego, CA	Subpart 1	-	100	-	0.00	0.05	0.07	0.10	0.46	0.78	0.72	0.96	0.88	0.00	0.06	0.07	0.10	0.46	0.78	0.72	0.97	0.78
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	0.09	0.13	0.18	0.82	1.38	1.28	1.71	1.56	0.00	0.11	0.13	0.18	0.82	1.38	1.28	1.71	1.38
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.05	0.07	0.10	0.49	0.83	0.77	1.03	0.94	0.00	0.06	0.07	0.10	0.49	0.83	0.77	1.03	0.83
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.02
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.01	0.01	0.02	0.09	0.16	0.15	0.20	0.18	0.00	0.01	0.02	0.02	0.09	0.16	0.15	0.20	0.16
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.03	0.05	0.07	0.31	0.52	0.48	0.65	0.59	0.00	0.04	0.05	0.07	0.31	0.52	0.48	0.65	0.52
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.01	0.01	0.02	0.09	0.16	0.15	0.19	0.18	0.00	0.01	0.01	0.02	0.09	0.16	0.15	0.19	0.16
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.06	0.09	0.13	0.59	0.99	0.92	1.23	1.12	0.00	0.08	0.09	0.13	0.59	0.99	0.92	1.23	0.99
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03
York, PA	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.04	0.06	0.06	0.08	0.07	0.00	0.00	0.01	0.01	0.04	0.06	0.06	0.08	0.06

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-8
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Acrolein 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.03	0.04	0.05	0.22	0.36	0.34	0.46	0.42	0.00	0.03	0.04	0.05	0.22	0.36	0.34	0.46	0.36
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.03	0.04	0.04	0.05	0.05	0.00	0.00	0.00	0.01	0.03	0.04	0.04	0.05	0.04
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.01	0.01	0.03	0.05	0.05	0.06	0.06	0.00	0.00	0.01	0.01	0.03	0.05	0.05	0.06	0.05
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	0.14	0.20	0.26	1.16	1.93	1.82	2.43	2.22	0.00	0.18	0.20	0.26	1.16	1.93	1.82	2.43	1.93
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.06	0.09	0.12	0.52	0.86	0.81	1.08	0.99	0.00	0.08	0.09	0.12	0.51	0.86	0.81	1.08	0.86
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.02	-0.02	-0.02	0.07	0.14	0.13	0.18	0.16	0.00	-0.03	-0.02	-0.02	0.07	0.14	0.13	0.19	0.14
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-0.40	-0.58	-0.62	-0.66	-0.74	-0.75	-0.80	-0.79	0.00	-0.59	-0.59	-0.60	-0.62	-0.69	-0.70	-0.74	-0.69
Birmingham, AL	-	Nonattainment	-	100	0.00	0.02	0.03	0.04	0.17	0.28	0.27	0.36	0.33	0.00	0.03	0.03	0.04	0.17	0.28	0.27	0.36	0.28
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.11	0.15	0.20	0.87	1.45	1.37	1.82	1.67	0.00	0.14	0.15	0.19	0.87	1.45	1.37	1.82	1.45
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.01	0.02	0.02	0.11	0.18	0.17	0.23	0.21	0.00	0.02	0.02	0.02	0.11	0.18	0.17	0.23	0.18
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.02	0.03	0.04	0.19	0.32	0.31	0.41	0.37	0.00	0.03	0.03	0.04	0.19	0.32	0.30	0.41	0.32
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.05	0.08	0.08	0.10	0.09	0.00	0.01	0.01	0.01	0.05	0.08	0.08	0.10	0.08
Charleston, WV	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.05	0.08	0.07	0.10	0.09	0.00	0.01	0.01	0.01	0.05	0.08	0.07	0.10	0.08
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.04	0.05	0.07	0.30	0.50	0.47	0.63	0.58	0.00	0.05	0.05	0.07	0.30	0.50	0.47	0.63	0.50
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.09	0.15	0.14	0.19	0.17	0.00	0.01	0.02	0.02	0.09	0.15	0.14	0.19	0.15
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	0.15	0.21	0.27	1.21	2.00	1.89	2.52	2.30	0.00	0.19	0.21	0.27	1.20	2.00	1.89	2.52	2.00
Chico, CA	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.05	0.07	0.07	0.09	0.09	0.00	0.01	0.01	0.01	0.04	0.07	0.07	0.09	0.07
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.04	0.06	0.08	0.33	0.55	0.52	0.70	0.64	0.00	0.05	0.06	0.07	0.33	0.55	0.52	0.70	0.55
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.05	0.07	0.10	0.43	0.72	0.68	0.91	0.83	0.00	0.07	0.07	0.10	0.43	0.72	0.68	0.91	0.72
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.04	0.05	0.07	0.29	0.49	0.46	0.61	0.56	0.00	0.05	0.05	0.07	0.29	0.49	0.46	0.61	0.49
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.15	0.21	0.28	1.22	2.03	1.92	2.56	2.34	0.00	0.19	0.21	0.27	1.22	2.03	1.92	2.56	2.03
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.02	0.02	0.03	0.12	0.20	0.19	0.26	0.24	0.00	0.02	0.02	0.03	0.12	0.20	0.19	0.26	0.20
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.08	0.11	0.14	0.63	1.04	0.99	1.31	1.20	0.00	0.10	0.11	0.14	0.63	1.04	0.98	1.31	1.04
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.10	0.13	0.18	0.79	1.31	1.23	1.65	1.50	0.00	0.12	0.13	0.18	0.78	1.31	1.23	1.64	1.31
Door Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.05	0.09	0.08	0.11	0.10	0.00	0.01	0.01	0.01	0.05	0.09	0.08	0.11	0.09
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.03	0.05	0.06	0.28	0.46	0.44	0.58	0.53	0.00	0.04	0.05	0.06	0.28	0.46	0.43	0.58	0.46
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.02	0.02	0.03	0.14	0.22	0.21	0.28	0.26	0.00	0.02	0.02	0.03	0.13	0.22	0.21	0.28	0.22
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.02	0.02	0.03	0.14	0.23	0.21	0.28	0.26	0.00	0.02	0.02	0.03	0.14	0.23	0.21	0.28	0.23
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	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
Hickory, NC	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.03	0.05	0.05	0.06	0.06	0.00	0.00	0.01	0.01	0.03	0.05	0.05	0.06	0.05

**Table C-8
Alternative CAFE Standards
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Acrolein 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-0.44	-0.64	-0.65	-0.02	0.45	0.35	0.75	0.60	0.00	-0.67	-0.66	-0.63	0.03	0.52	0.42	0.83	0.52
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.05	0.09	0.08	0.11	0.10	0.00	0.01	0.01	0.01	0.05	0.09	0.08	0.11	0.09
Imperial Co, CA	Moderate	-	100	-	0.00	0.00	0.01	0.01	0.04	0.06	0.06	0.08	0.07	0.00	0.01	0.01	0.01	0.04	0.06	0.06	0.08	0.06
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.03	0.05	0.06	0.27	0.46	0.43	0.57	0.52	0.00	0.04	0.05	0.06	0.27	0.45	0.43	0.57	0.45
Jamestown, NY	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.03	0.04	0.04	0.05	0.05	0.00	0.00	0.00	0.01	0.03	0.04	0.04	0.05	0.04
Jefferson Co, NY	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.03
Johnstown, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.03
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.02	0.02	0.00	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.02	0.01
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.03	0.04	0.05	0.21	0.34	0.33	0.43	0.40	0.00	0.03	0.04	0.05	0.21	0.34	0.32	0.43	0.34
Lancaster, PA	-	Nonattainment	-	100	0.00	0.01	0.01	0.02	0.08	0.13	0.12	0.16	0.15	0.00	0.01	0.01	0.02	0.08	0.13	0.12	0.16	0.13
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.03	0.05	0.06	0.27	0.45	0.42	0.56	0.51	0.00	0.04	0.05	0.06	0.27	0.45	0.42	0.56	0.45
Libby, MT	-	Nonattainment	-	100	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
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	0.28	0.38	0.53	2.57	4.30	4.06	5.43	4.95	0.00	0.34	0.38	0.52	2.56	4.30	4.05	5.44	4.30
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-0.03	-0.04	-0.04	0.05	0.12	0.10	0.16	0.14	0.00	-0.05	-0.05	-0.04	0.05	0.12	0.11	0.17	0.12
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.02	0.03	0.04	0.18	0.30	0.28	0.38	0.34	0.00	0.03	0.03	0.04	0.18	0.30	0.28	0.38	0.30
Macon, GA	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.03	0.06	0.05	0.07	0.06	0.00	0.01	0.01	0.01	0.03	0.06	0.05	0.07	0.06
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.03
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.03
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.05	0.09	0.09	0.11	0.10	0.00	0.01	0.01	0.01	0.05	0.09	0.08	0.11	0.09
Memphis, TN-AR	Moderate	-	100	-	0.00	0.02	0.03	0.04	0.17	0.28	0.26	0.35	0.32	0.00	0.03	0.03	0.04	0.17	0.28	0.26	0.35	0.28
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.04	0.05	0.07	0.30	0.51	0.48	0.64	0.58	0.00	0.05	0.05	0.07	0.30	0.50	0.48	0.64	0.50
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.03	0.04	0.04	0.05	0.05	0.00	0.00	0.00	0.01	0.03	0.04	0.04	0.05	0.04
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	0.33	0.45	0.60	2.66	4.42	4.17	5.56	5.08	0.00	0.41	0.46	0.59	2.65	4.41	4.16	5.56	4.41
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.02	0.04	0.04	0.05	0.05	0.00	0.00	0.00	0.01	0.02	0.04	0.04	0.05	0.04
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	0.14	0.19	0.25	1.11	1.84	1.73	2.31	2.11	0.00	0.17	0.19	0.25	1.10	1.83	1.73	2.31	1.83
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.11	0.15	0.20	0.88	1.46	1.38	1.84	1.68	0.00	0.14	0.15	0.20	0.88	1.46	1.38	1.84	1.46
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.04	0.06	0.08	0.34	0.56	0.53	0.70	0.64	0.00	0.05	0.06	0.07	0.33	0.56	0.53	0.70	0.56
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.03	0.04	0.05	0.24	0.40	0.38	0.50	0.46	0.00	0.04	0.04	0.05	0.24	0.40	0.38	0.50	0.40
Providence (All RI), RI	Moderate	-	100	-	0.00	0.02	0.03	0.04	0.17	0.28	0.26	0.35	0.32	0.00	0.03	0.03	0.04	0.17	0.28	0.26	0.35	0.28
Reading, PA	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.06	0.09	0.09	0.12	0.11	0.00	0.01	0.01	0.01	0.06	0.09	0.09	0.12	0.09
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.01	0.02	0.02	0.11	0.18	0.17	0.23	0.21	0.00	0.02	0.02	0.02	0.11	0.18	0.17	0.23	0.18
Rochester, NY	Subpart 1	-	100	-	0.00	0.03	0.04	0.05	0.23	0.38	0.36	0.47	0.43	0.00	0.04	0.04	0.05	0.23	0.38	0.35	0.47	0.38
Rome, GA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.03
Sacramento Metro, CA	Serious	-	50	-	0.00	0.06	0.08	0.11	0.49	0.81	0.76	1.02	0.93	0.00	0.08	0.08	0.11	0.48	0.81	0.76	1.02	0.81
San Diego, CA	Subpart 1	-	100	-	0.00	0.09	0.13	0.17	0.74	1.23	1.16	1.54	1.41	0.00	0.11	0.13	0.16	0.74	1.22	1.16	1.54	1.22

**Table C-8
Alternative CAFE Standards
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Acrolein 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	0.16	0.22	0.30	1.31	2.17	2.05	2.74	2.50	0.00	0.20	0.22	0.29	1.30	2.17	2.05	2.73	2.17
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.09	0.12	0.17	0.79	1.31	1.24	1.65	1.51	0.00	0.11	0.12	0.16	0.78	1.31	1.24	1.65	1.31
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.04	0.03
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.02	0.03	0.03	0.15	0.25	0.24	0.32	0.29	0.00	0.02	0.03	0.03	0.15	0.25	0.24	0.32	0.25
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.06	0.08	0.11	0.50	0.82	0.78	1.03	0.94	0.00	0.08	0.08	0.11	0.49	0.82	0.77	1.03	0.82
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.02	0.02	0.03	0.15	0.25	0.23	0.31	0.28	0.00	0.02	0.02	0.03	0.15	0.25	0.23	0.31	0.25
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.12	0.16	0.21	0.94	1.56	1.48	1.97	1.80	0.00	0.15	0.16	0.21	0.94	1.56	1.47	1.97	1.56
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.02	0.04	0.04	0.05	0.05	0.00	0.00	0.00	0.01	0.02	0.04	0.04	0.05	0.04
York, PA	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.06	0.10	0.09	0.12	0.11	0.00	0.01	0.01	0.01	0.06	0.10	0.09	0.12	0.10

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-9
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Benzene 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-0.03	-0.05	-0.09	-0.29	-0.48	-0.39	-0.51	-0.51	0.00	-0.03	-0.05	-0.09	-0.29	-0.48	-0.39	-0.51	-0.51
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.02	-0.04	-0.03	-0.05	-0.04	0.00	0.00	0.00	0.00	-0.02	-0.04	-0.03	-0.05	-0.04
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.02	-0.03	-0.03	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.02	-0.03	-0.03
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	0.07	0.08	-0.01	-0.89	-1.62	-1.28	-1.75	-1.70	0.00	0.07	0.08	-0.01	-0.89	-1.62	-1.28	-1.75	-1.70
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.06	0.08	0.04	-0.35	-0.66	-0.51	-0.71	-0.69	0.00	0.06	0.08	0.04	-0.35	-0.66	-0.51	-0.71	-0.69
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.70	-1.04	-1.26	-1.74	-2.50	-2.21	-2.63	-2.65	0.00	-0.70	-1.04	-1.26	-1.74	-2.50	-2.21	-2.63	-2.65
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-2.26	-3.37	-4.02	-5.33	-7.53	-6.71	-7.91	-8.01	0.00	-2.26	-3.37	-4.02	-5.33	-7.53	-6.71	-7.91	-8.01
Birmingham, AL	-	Nonattainment	-	100	0.00	0.01	0.01	0.00	-0.15	-0.27	-0.21	-0.29	-0.28	0.00	0.01	0.01	0.00	-0.15	-0.27	-0.21	-0.29	-0.28
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.11	0.15	0.09	-0.59	-1.12	-0.87	-1.21	-1.17	0.00	0.11	0.15	0.09	-0.59	-1.12	-0.87	-1.21	-1.17
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.01	0.02	0.01	-0.07	-0.14	-0.11	-0.15	-0.15	0.00	0.01	0.02	0.01	-0.07	-0.14	-0.11	-0.15	-0.15
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.02	0.02	0.01	-0.16	-0.29	-0.23	-0.31	-0.30	0.00	0.02	0.02	0.01	-0.16	-0.29	-0.23	-0.31	-0.30
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	-0.05	-0.09	-0.07	-0.09	-0.09	0.00	0.00	0.00	0.00	-0.05	-0.09	-0.07	-0.09	-0.09
Charleston, WV	-	Nonattainment	-	100	0.00	0.00	0.01	0.00	-0.04	-0.07	-0.06	-0.08	-0.08	0.00	0.00	0.01	0.00	-0.04	-0.07	-0.06	-0.08	-0.08
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.01	0.01	-0.01	-0.25	-0.45	-0.36	-0.48	-0.47	0.00	0.01	0.01	-0.01	-0.25	-0.45	-0.36	-0.48	-0.47
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-0.01	-0.02	-0.03	-0.11	-0.19	-0.15	-0.20	-0.20	0.00	-0.01	-0.02	-0.03	-0.11	-0.19	-0.15	-0.20	-0.20
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	0.10	0.12	0.03	-0.91	-1.68	-1.32	-1.81	-1.76	0.00	0.10	0.12	0.03	-0.91	-1.68	-1.32	-1.81	-1.76
Chico, CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.03	-0.06	-0.04	-0.06	-0.06	0.00	0.00	0.00	0.00	-0.03	-0.06	-0.04	-0.06	-0.06
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.02	0.03	0.00	-0.27	-0.49	-0.39	-0.53	-0.52	0.00	0.02	0.03	0.00	-0.27	-0.49	-0.39	-0.53	-0.52
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.04	0.04	0.00	-0.36	-0.66	-0.52	-0.71	-0.69	0.00	0.04	0.04	0.00	-0.36	-0.66	-0.52	-0.71	-0.69
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.01	0.01	-0.02	-0.25	-0.44	-0.35	-0.48	-0.46	0.00	0.01	0.01	-0.02	-0.25	-0.44	-0.35	-0.48	-0.46
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.09	0.11	0.02	-0.88	-1.61	-1.27	-1.74	-1.69	0.00	0.09	0.11	0.02	-0.88	-1.61	-1.27	-1.74	-1.69
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.01	0.01	0.00	-0.11	-0.20	-0.16	-0.21	-0.21	0.00	0.01	0.01	0.00	-0.11	-0.20	-0.16	-0.21	-0.21
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.06	0.07	0.03	-0.43	-0.80	-0.63	-0.87	-0.84	0.00	0.06	0.07	0.03	-0.43	-0.80	-0.63	-0.87	-0.84
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.04	0.04	-0.03	-0.69	-1.25	-0.99	-1.34	-1.31	0.00	0.04	0.04	-0.03	-0.69	-1.25	-0.99	-1.34	-1.31
Door Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	-0.01	-0.01	-0.02	-0.06	-0.11	-0.09	-0.12	-0.11	0.00	-0.01	-0.01	-0.02	-0.06	-0.11	-0.09	-0.12	-0.11
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.03	0.04	0.02	-0.21	-0.40	-0.31	-0.43	-0.42	0.00	0.03	0.04	0.02	-0.21	-0.40	-0.31	-0.43	-0.42
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.01	0.02	0.00	-0.11	-0.19	-0.15	-0.21	-0.20	0.00	0.01	0.02	0.00	-0.11	-0.19	-0.15	-0.21	-0.20
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.01	0.01	0.00	-0.10	-0.19	-0.15	-0.20	-0.20	0.00	0.01	0.01	0.00	-0.10	-0.19	-0.15	-0.20	-0.20
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01	-0.01
Hickory, NC	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	-0.03	-0.05	-0.04	-0.05	-0.05	0.00	0.00	0.00	0.00	-0.03	-0.05	-0.04	-0.05	-0.05

Table C-9
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Benzene 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-2.40	-3.60	-4.38	-6.50	-9.47	-8.32	-9.98	-10.05	0.00	-2.40	-3.60	-4.38	-6.50	-9.47	-8.32	-9.98	-10.05
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-0.01	-0.02	-0.03	-0.08	-0.13	-0.11	-0.14	-0.14	0.00	-0.01	-0.02	-0.03	-0.08	-0.13	-0.11	-0.14	-0.14
Imperial Co, CA	Moderate	-	100	-	0.00	0.00	0.00	0.00	-0.03	-0.05	-0.04	-0.05	-0.05	0.00	0.00	0.00	0.00	-0.03	-0.05	-0.04	-0.05	-0.05
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.01	0.01	-0.01	-0.23	-0.42	-0.33	-0.45	-0.44	0.00	0.01	0.01	-0.01	-0.23	-0.42	-0.33	-0.45	-0.44
Jamestown, NY	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.02	-0.04	-0.03	-0.05	-0.04	0.00	0.00	0.00	0.00	-0.02	-0.04	-0.03	-0.05	-0.04
Jefferson Co, NY	Moderate	-	100	-	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.02	-0.03	-0.03	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.02	-0.03	-0.03
Johnstown, PA	-	Nonattainment	-	100	0.00	-0.01	-0.01	-0.01	-0.04	-0.06	-0.05	-0.06	-0.06	0.00	-0.01	-0.01	-0.01	-0.04	-0.06	-0.05	-0.06	-0.06
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.05	-0.07	-0.09	-0.13	-0.19	-0.17	-0.20	-0.20	0.00	-0.05	-0.07	-0.09	-0.13	-0.19	-0.17	-0.20	-0.20
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-0.02	-0.04	-0.06	-0.24	-0.40	-0.33	-0.43	-0.42	0.00	-0.02	-0.04	-0.06	-0.24	-0.40	-0.33	-0.43	-0.42
Lancaster, PA	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	-0.05	-0.10	-0.08	-0.11	-0.11	0.00	0.01	0.01	0.01	-0.05	-0.10	-0.08	-0.11	-0.11
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.02	0.03	0.01	-0.17	-0.32	-0.25	-0.35	-0.34	0.00	0.02	0.03	0.01	-0.17	-0.32	-0.25	-0.35	-0.34
Libby, MT	-	Nonattainment	-	100	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
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.02	-0.03	-0.03	-0.04	-0.06	-0.05	-0.06	-0.06	0.00	-0.02	-0.03	-0.03	-0.04	-0.06	-0.05	-0.06	-0.06
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	0.23	0.27	0.08	-1.93	-3.56	-2.80	-3.84	-3.73	0.00	0.23	0.27	0.08	-1.93	-3.56	-2.80	-3.84	-3.73
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-0.10	-0.16	-0.20	-0.35	-0.54	-0.46	-0.57	-0.57	0.00	-0.10	-0.16	-0.20	-0.35	-0.54	-0.46	-0.57	-0.57
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.01	0.01	0.00	-0.16	-0.28	-0.22	-0.31	-0.30	0.00	0.01	0.01	0.00	-0.16	-0.28	-0.22	-0.31	-0.30
Macon, GA	-	Nonattainment	-	100	0.00	-0.01	-0.01	-0.02	-0.05	-0.09	-0.07	-0.09	-0.09	0.00	-0.01	-0.01	-0.02	-0.05	-0.09	-0.07	-0.09	-0.09
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.02	-0.03	-0.03	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.02	-0.03	-0.03
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.02	-0.03	-0.02	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.02	-0.03	-0.02
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.00	-0.01	-0.01	-0.06	-0.10	-0.08	-0.11	-0.11	0.00	0.00	-0.01	-0.01	-0.06	-0.10	-0.08	-0.11	-0.11
Memphis, TN-AR	Moderate	-	100	-	0.00	0.00	-0.01	-0.02	-0.17	-0.30	-0.24	-0.32	-0.32	0.00	0.00	-0.01	-0.02	-0.17	-0.30	-0.24	-0.32	-0.32
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.02	0.03	0.00	-0.24	-0.44	-0.35	-0.48	-0.47	0.00	0.02	0.03	0.00	-0.24	-0.44	-0.35	-0.48	-0.47
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.02	-0.03	-0.03	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.02	-0.03	-0.03
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-0.35	-0.59	-0.96	-3.45	-5.77	-4.74	-6.16	-6.07	0.00	-0.35	-0.59	-0.96	-3.45	-5.77	-4.74	-6.16	-6.07
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	-0.01	-0.03	-0.05	-0.04	-0.05	-0.05	0.00	0.00	0.00	-0.01	-0.03	-0.05	-0.04	-0.05	-0.05
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-0.80	-1.22	-1.56	-2.97	-4.56	-3.90	-4.83	-4.83	0.00	-0.80	-1.22	-1.56	-2.97	-4.56	-3.90	-4.83	-4.83
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.07	0.09	0.04	-0.51	-0.95	-0.74	-1.02	-0.99	0.00	0.07	0.09	0.04	-0.51	-0.95	-0.74	-1.02	-0.99
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.01	0.01	-0.02	-0.32	-0.57	-0.45	-0.61	-0.60	0.00	0.01	0.01	-0.02	-0.32	-0.57	-0.45	-0.61	-0.60
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.02	0.02	0.00	-0.17	-0.32	-0.25	-0.35	-0.34	0.00	0.02	0.02	0.00	-0.17	-0.32	-0.25	-0.35	-0.34
Providence (All RI), RI	Moderate	-	100	-	0.00	0.01	0.01	-0.01	-0.14	-0.26	-0.20	-0.28	-0.27	0.00	0.01	0.01	-0.01	-0.14	-0.26	-0.20	-0.28	-0.27
Reading, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	-0.05	-0.09	-0.07	-0.09	-0.09	0.00	0.00	0.00	0.00	-0.05	-0.09	-0.07	-0.09	-0.09
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.01	0.01	0.00	-0.08	-0.14	-0.11	-0.15	-0.14	0.00	0.01	0.01	0.00	-0.08	-0.14	-0.11	-0.15	-0.14
Rochester, NY	Subpart 1	-	100	-	0.00	0.02	0.02	0.01	-0.18	-0.33	-0.26	-0.35	-0.34	0.00	0.02	0.02	0.01	-0.18	-0.33	-0.26	-0.35	-0.34
Rome, GA	-	Nonattainment	-	100	0.00	0.00	0.00	-0.01	-0.02	-0.04	-0.03	-0.04	-0.04	0.00	0.00	0.00	-0.01	-0.02	-0.04	-0.03	-0.04	-0.04

**Table C-9
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Benzene 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sacramento Metro, CA	Serious	-	50	-	0.00	0.01	0.00	-0.04	-0.38	-0.67	-0.54	-0.72	-0.71	0.00	0.01	0.00	-0.04	-0.38	-0.67	-0.54	-0.72	-0.71
San Diego, CA	Subpart 1	-	100	-	0.00	0.08	0.11	0.06	-0.45	-0.85	-0.66	-0.92	-0.89	0.00	0.08	0.11	0.06	-0.45	-0.85	-0.66	-0.92	-0.89
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-0.98	-1.49	-1.89	-3.48	-5.32	-4.56	-5.63	-5.63	0.00	-0.98	-1.49	-1.89	-3.48	-5.32	-4.56	-5.63	-5.63
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.02	0.01	-0.06	-0.65	-1.15	-0.92	-1.24	-1.21	0.00	0.02	0.01	-0.06	-0.65	-1.15	-0.92	-1.24	-1.21
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.03	-0.03	-0.03	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.03	-0.03	-0.03
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.02	0.03	0.02	-0.10	-0.20	-0.15	-0.22	-0.21	0.00	0.02	0.03	0.02	-0.10	-0.20	-0.15	-0.22	-0.21
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.03	0.03	-0.02	-0.44	-0.80	-0.64	-0.86	-0.84	0.00	0.03	0.03	-0.02	-0.44	-0.80	-0.64	-0.86	-0.84
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	0.00	-0.01	-0.02	-0.04	-0.03	-0.04	-0.04	0.00	0.00	0.00	-0.01	-0.02	-0.04	-0.03	-0.04	-0.04
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.02	0.02	0.01	-0.09	-0.17	-0.13	-0.19	-0.18	0.00	0.02	0.02	0.01	-0.09	-0.17	-0.13	-0.19	-0.18
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.10	0.13	0.07	-0.63	-1.19	-0.92	-1.28	-1.24	0.00	0.10	0.13	0.07	-0.63	-1.19	-0.92	-1.28	-1.24
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	-0.01	-0.01	-0.03	-0.06	-0.05	-0.06	-0.06	0.00	0.00	-0.01	-0.01	-0.03	-0.06	-0.05	-0.06	-0.06
York, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	-0.05	-0.09	-0.07	-0.09	-0.09	0.00	0.00	0.00	0.00	-0.05	-0.09	-0.07	-0.09	-0.09

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-10
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Benzene 2020																						
Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-0.05	-0.10	-0.17	-0.82	-1.40	-1.18	-1.58	-1.50	0.00	-0.07	-0.10	-0.17	-0.82	-1.40	-1.18	-1.58	-1.50
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.00	0.00	-0.01	-0.07	-0.13	-0.11	-0.15	-0.14	0.00	0.00	0.00	-0.01	-0.07	-0.13	-0.11	-0.15	-0.14
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	-0.06	-0.11	-0.09	-0.13	-0.12	0.00	0.01	0.01	0.01	-0.06	-0.11	-0.09	-0.13	-0.12
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	0.34	0.39	0.15	-2.89	-5.41	-4.39	-6.16	-5.82	0.00	0.38	0.39	0.15	-2.89	-5.42	-4.39	-6.17	-5.82
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.22	0.27	0.18	-1.16	-2.25	-1.80	-2.57	-2.42	0.00	0.25	0.28	0.18	-1.16	-2.26	-1.80	-2.57	-2.42
Baton Rouge, LA	Moderate	-	100	-	0.00	-1.73	-2.54	-2.89	-4.18	-5.70	-5.36	-6.32	-6.15	0.00	-2.07	-2.59	-2.91	-4.16	-5.67	-5.32	-6.28	-6.11
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-5.64	-8.23	-9.31	-12.56	-16.71	-15.89	-18.47	-18.02	0.00	-6.73	-8.41	-9.34	-12.48	-16.61	-15.79	-18.34	-17.90
Birmingham, AL	-	Nonattainment	-	100	0.00	0.05	0.05	0.02	-0.46	-0.86	-0.70	-0.98	-0.93	0.00	0.05	0.05	0.02	-0.46	-0.87	-0.70	-0.98	-0.93
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.40	0.50	0.33	-1.96	-3.83	-3.05	-4.37	-4.12	0.00	0.45	0.50	0.33	-1.96	-3.84	-3.06	-4.38	-4.13
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.05	0.06	0.04	-0.24	-0.48	-0.38	-0.54	-0.51	0.00	0.05	0.06	0.04	-0.25	-0.48	-0.38	-0.54	-0.51
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.07	0.08	0.04	-0.49	-0.94	-0.76	-1.07	-1.01	0.00	0.08	0.08	0.04	-0.50	-0.94	-0.76	-1.07	-1.01
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.01	0.01	0.00	-0.15	-0.27	-0.22	-0.30	-0.28	0.00	0.01	0.01	0.00	-0.15	-0.27	-0.22	-0.30	-0.29
Charleston, WV	-	Nonattainment	-	100	0.00	0.02	0.02	0.01	-0.12	-0.23	-0.19	-0.26	-0.25	0.00	0.02	0.02	0.01	-0.12	-0.23	-0.19	-0.26	-0.25
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.07	0.08	0.01	-0.79	-1.46	-1.19	-1.66	-1.57	0.00	0.08	0.08	0.01	-0.79	-1.46	-1.19	-1.66	-1.57
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-0.01	-0.02	-0.05	-0.33	-0.56	-0.47	-0.64	-0.61	0.00	-0.01	-0.02	-0.05	-0.33	-0.56	-0.47	-0.64	-0.61
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	0.42	0.49	0.25	-2.93	-5.57	-4.49	-6.34	-5.99	0.00	0.47	0.50	0.25	-2.94	-5.58	-4.50	-6.35	-5.99
Chico, CA	Subpart 1	-	100	-	0.00	0.01	0.02	0.01	-0.10	-0.19	-0.15	-0.22	-0.20	0.00	0.02	0.02	0.01	-0.10	-0.19	-0.15	-0.22	-0.21
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.10	0.12	0.05	-0.86	-1.61	-1.30	-1.83	-1.73	0.00	0.12	0.12	0.05	-0.86	-1.61	-1.30	-1.83	-1.73
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.14	0.17	0.07	-1.13	-2.13	-1.73	-2.43	-2.29	0.00	0.16	0.17	0.07	-1.13	-2.14	-1.73	-2.43	-2.30
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.06	0.06	0.00	-0.77	-1.42	-1.16	-1.61	-1.53	0.00	0.07	0.06	0.00	-0.77	-1.42	-1.16	-1.61	-1.53
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.39	0.47	0.23	-2.87	-5.44	-4.39	-6.19	-5.84	0.00	0.45	0.47	0.22	-2.88	-5.45	-4.40	-6.20	-5.85
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.04	0.04	0.01	-0.34	-0.63	-0.51	-0.72	-0.68	0.00	0.04	0.04	0.01	-0.34	-0.63	-0.52	-0.72	-0.68
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.23	0.27	0.15	-1.44	-2.76	-2.22	-3.14	-2.96	0.00	0.26	0.28	0.15	-1.45	-2.76	-2.22	-3.15	-2.97
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.20	0.21	0.04	-2.14	-3.96	-3.22	-4.49	-4.25	0.00	0.22	0.22	0.03	-2.14	-3.96	-3.23	-4.50	-4.25
Door Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.02	-0.03	-0.03	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.02	-0.03	-0.03
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	-0.01	-0.01	-0.03	-0.18	-0.32	-0.27	-0.36	-0.34	0.00	-0.01	-0.01	-0.03	-0.18	-0.32	-0.27	-0.36	-0.34
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.11	0.13	0.08	-0.68	-1.31	-1.05	-1.49	-1.41	0.00	0.13	0.14	0.08	-0.68	-1.31	-1.05	-1.50	-1.41
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.05	0.06	0.03	-0.34	-0.65	-0.52	-0.74	-0.70	0.00	0.06	0.06	0.03	-0.34	-0.65	-0.52	-0.74	-0.70
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.05	0.06	0.03	-0.33	-0.62	-0.50	-0.71	-0.67	0.00	0.05	0.06	0.03	-0.33	-0.63	-0.50	-0.71	-0.67
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

Table C-10
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Benzene 2020																						
Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Hickory, NC	-	Nonattainment	-	100	0.00	0.01	0.01	0.00	-0.08	-0.15	-0.12	-0.17	-0.16	0.00	0.01	0.01	0.00	-0.08	-0.15	-0.12	-0.17	-0.16
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-5.88	-8.66	-10.02	-15.93	-22.42	-20.73	-24.91	-24.16	0.00	-7.03	-8.86	-10.06	-15.85	-22.31	-20.62	-24.78	-24.04
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-0.02	-0.03	-0.05	-0.22	-0.37	-0.32	-0.42	-0.40	0.00	-0.02	-0.03	-0.05	-0.22	-0.37	-0.32	-0.42	-0.40
Imperial Co, CA	Moderate	-	100	-	0.00	0.01	0.02	0.01	-0.09	-0.17	-0.13	-0.19	-0.18	0.00	0.02	0.02	0.01	-0.09	-0.17	-0.13	-0.19	-0.18
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.06	0.07	0.01	-0.73	-1.34	-1.10	-1.53	-1.44	0.00	0.07	0.07	0.01	-0.73	-1.34	-1.10	-1.53	-1.44
Jamestown, NY	Subpart 1	-	100	-	0.00	0.01	0.01	0.00	-0.07	-0.13	-0.11	-0.15	-0.14	0.00	0.01	0.01	0.00	-0.07	-0.13	-0.11	-0.15	-0.14
Jefferson Co, NY	Moderate	-	100	-	0.00	0.01	0.01	0.01	-0.05	-0.10	-0.08	-0.11	-0.11	0.00	0.01	0.01	0.01	-0.05	-0.10	-0.08	-0.11	-0.11
Johnstown, PA	-	Nonattainment	-	100	0.00	-0.01	-0.02	-0.03	-0.10	-0.15	-0.13	-0.17	-0.17	0.00	-0.02	-0.02	-0.03	-0.09	-0.15	-0.13	-0.17	-0.17
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.12	-0.18	-0.20	-0.32	-0.45	-0.42	-0.50	-0.49	0.00	-0.14	-0.18	-0.20	-0.32	-0.45	-0.42	-0.50	-0.48
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-0.03	-0.06	-0.11	-0.70	-1.20	-1.01	-1.36	-1.29	0.00	-0.03	-0.06	-0.11	-0.69	-1.20	-1.01	-1.36	-1.29
Lancaster, PA	-	Nonattainment	-	100	0.00	0.03	0.04	0.02	-0.18	-0.35	-0.28	-0.39	-0.37	0.00	0.04	0.04	0.02	-0.18	-0.35	-0.28	-0.39	-0.37
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.09	0.11	0.06	-0.60	-1.14	-0.92	-1.30	-1.23	0.00	0.11	0.12	0.06	-0.60	-1.14	-0.92	-1.30	-1.23
Libby, MT	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.04	-0.06	-0.07	-0.10	-0.14	-0.13	-0.15	-0.15	0.00	-0.05	-0.06	-0.07	-0.10	-0.14	-0.13	-0.15	-0.15
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	0.91	1.09	0.57	-6.27	-11.93	-9.61	-13.59	-12.82	0.00	1.04	1.11	0.57	-6.28	-11.95	-9.63	-13.61	-12.84
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-0.24	-0.36	-0.44	-0.92	-1.38	-1.24	-1.55	-1.49	0.00	-0.29	-0.37	-0.44	-0.91	-1.38	-1.23	-1.54	-1.49
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.05	0.06	0.02	-0.49	-0.91	-0.74	-1.04	-0.98	0.00	0.06	0.06	0.02	-0.49	-0.91	-0.74	-1.04	-0.98
Macon, GA	-	Nonattainment	-	100	0.00	-0.01	-0.02	-0.03	-0.15	-0.24	-0.21	-0.28	-0.26	0.00	-0.02	-0.02	-0.03	-0.15	-0.24	-0.21	-0.27	-0.26
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.01	0.01	0.00	-0.04	-0.08	-0.07	-0.09	-0.09	0.00	0.01	0.01	0.00	-0.04	-0.08	-0.07	-0.09	-0.09
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	-0.04	-0.08	-0.07	-0.09	-0.09	0.00	0.01	0.01	0.01	-0.04	-0.08	-0.07	-0.09	-0.09
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.00	-0.01	-0.02	-0.18	-0.31	-0.26	-0.36	-0.34	0.00	0.00	-0.01	-0.02	-0.18	-0.31	-0.26	-0.36	-0.34
Memphis, TN-AR	Moderate	-	100	-	0.00	0.02	0.01	-0.03	-0.52	-0.94	-0.77	-1.07	-1.01	0.00	0.02	0.01	-0.03	-0.52	-0.94	-0.78	-1.07	-1.01
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.10	0.11	0.05	-0.77	-1.45	-1.17	-1.65	-1.56	0.00	0.11	0.12	0.05	-0.77	-1.45	-1.17	-1.65	-1.56
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	-0.05	-0.10	-0.08	-0.11	-0.11	0.00	0.01	0.01	0.01	-0.05	-0.10	-0.08	-0.11	-0.11
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-0.53	-1.03	-1.86	-9.85	-16.85	-14.21	-19.04	-18.12	0.00	-0.69	-1.06	-1.87	-9.84	-16.84	-14.20	-19.02	-18.10
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	-0.01	-0.08	-0.15	-0.12	-0.17	-0.16	0.00	0.00	0.00	-0.01	-0.08	-0.15	-0.12	-0.17	-0.16
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-1.86	-2.81	-3.47	-7.71	-11.79	-10.47	-13.20	-12.69	0.00	-2.24	-2.88	-3.48	-7.68	-11.76	-10.43	-13.16	-12.65
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.30	0.37	0.22	-1.76	-3.40	-2.72	-3.87	-3.65	0.00	0.34	0.38	0.22	-1.77	-3.40	-2.73	-3.88	-3.65
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.07	0.07	-0.01	-0.97	-1.78	-1.46	-2.02	-1.91	0.00	0.08	0.07	-0.01	-0.97	-1.78	-1.46	-2.02	-1.91
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.07	0.09	0.04	-0.56	-1.07	-0.86	-1.21	-1.15	0.00	0.08	0.09	0.04	-0.57	-1.07	-0.86	-1.21	-1.15
Providence (All RI), RI	Moderate	-	100	-	0.00	0.04	0.05	0.01	-0.44	-0.83	-0.67	-0.94	-0.89	0.00	0.05	0.05	0.01	-0.45	-0.83	-0.67	-0.94	-0.89
Reading, PA	-	Nonattainment	-	100	0.00	0.02	0.02	0.01	-0.15	-0.28	-0.22	-0.31	-0.30	0.00	0.02	0.02	0.01	-0.15	-0.28	-0.22	-0.31	-0.30
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.03	0.03	0.01	-0.25	-0.47	-0.38	-0.53	-0.50	0.00	0.03	0.04	0.01	-0.25	-0.47	-0.38	-0.53	-0.50

Table C-10
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Benzene 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Rochester, NY	Subpart 1	-	100	-	0.00	0.08	0.10	0.05	-0.57	-1.08	-0.87	-1.23	-1.16	0.00	0.09	0.10	0.05	-0.57	-1.08	-0.87	-1.23	-1.16
Rome, GA	-	Nonattainment	-	100	0.00	0.00	0.00	-0.01	-0.07	-0.12	-0.10	-0.14	-0.13	0.00	0.00	0.00	-0.01	-0.07	-0.12	-0.10	-0.14	-0.13
Sacramento Metro, CA	Serious	-	50	-	0.00	0.08	0.08	-0.02	-1.21	-2.21	-1.81	-2.51	-2.37	0.00	0.09	0.08	-0.02	-1.21	-2.21	-1.81	-2.51	-2.37
San Diego, CA	Subpart 1	-	100	-	0.00	0.30	0.38	0.25	-1.53	-2.99	-2.39	-3.41	-3.21	0.00	0.35	0.38	0.25	-1.54	-3.00	-2.39	-3.42	-3.22
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-2.27	-3.43	-4.20	-9.04	-13.74	-12.23	-15.37	-14.79	0.00	-2.74	-3.51	-4.22	-9.00	-13.69	-12.19	-15.32	-14.74
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.15	0.14	-0.03	-2.04	-3.74	-3.07	-4.25	-4.02	0.00	0.16	0.14	-0.03	-2.05	-3.75	-3.07	-4.25	-4.03
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.01	0.00	-0.05	-0.10	-0.08	-0.11	-0.11	0.00	0.01	0.01	0.00	-0.05	-0.10	-0.08	-0.12	-0.11
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.07	0.09	0.06	-0.35	-0.68	-0.54	-0.77	-0.73	0.00	0.08	0.09	0.06	-0.35	-0.68	-0.54	-0.77	-0.73
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.13	0.15	0.03	-1.38	-2.56	-2.08	-2.91	-2.75	0.00	0.15	0.15	0.03	-1.38	-2.56	-2.08	-2.91	-2.75
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-0.01	-0.01	-0.02	-0.07	-0.11	-0.10	-0.13	-0.12	0.00	-0.01	-0.01	-0.02	-0.07	-0.11	-0.10	-0.13	-0.12
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.06	0.07	0.05	-0.31	-0.61	-0.48	-0.69	-0.65	0.00	0.07	0.07	0.05	-0.31	-0.61	-0.49	-0.69	-0.65
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.38	0.47	0.30	-2.10	-4.07	-3.25	-4.64	-4.37	0.00	0.44	0.48	0.30	-2.10	-4.07	-3.26	-4.65	-4.38
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	-0.01	-0.02	-0.10	-0.16	-0.14	-0.19	-0.18	0.00	-0.01	-0.01	-0.02	-0.10	-0.16	-0.14	-0.19	-0.18
York, PA	-	Nonattainment	-	100	0.00	0.02	0.02	0.01	-0.15	-0.28	-0.23	-0.32	-0.30	0.00	0.02	0.02	0.01	-0.15	-0.28	-0.23	-0.32	-0.30

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-11
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Benzene 2030																						
Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.03	0.00	-0.15	-2.36	-4.24	-3.81	-5.24	-4.77	0.00	0.05	0.00	-0.15	-2.36	-4.25	-3.81	-5.25	-4.78
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.02	0.03	0.01	-0.24	-0.44	-0.39	-0.55	-0.50	0.00	0.03	0.03	0.01	-0.24	-0.45	-0.40	-0.56	-0.50
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.05	0.07	0.05	-0.23	-0.47	-0.41	-0.59	-0.53	0.00	0.07	0.07	0.05	-0.24	-0.48	-0.42	-0.60	-0.54
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	1.54	1.99	1.41	-9.64	-18.88	-16.61	-23.70	-21.37	0.00	2.24	2.07	1.38	-9.76	-19.04	-16.77	-23.89	-21.54
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.82	1.08	0.84	-3.99	-8.00	-7.00	-10.10	-9.08	0.00	1.19	1.12	0.83	-4.05	-8.09	-7.09	-10.19	-9.17
Baton Rouge, LA	Moderate	-	100	-	0.00	-3.65	-5.26	-5.86	-9.03	-12.21	-11.84	-14.08	-13.37	0.00	-5.19	-5.45	-5.81	-8.76	-11.86	-11.50	-13.68	-12.99
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-12.10	-17.38	-19.15	-26.23	-33.84	-33.30	-38.48	-36.84	0.00	-17.24	-18.03	-18.99	-25.33	-32.68	-32.15	-37.16	-35.58
Birmingham, AL	-	Nonattainment	-	100	0.00	0.21	0.27	0.18	-1.45	-2.81	-2.48	-3.52	-3.18	0.00	0.31	0.28	0.18	-1.46	-2.83	-2.50	-3.55	-3.20
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	1.42	1.88	1.48	-6.66	-13.43	-11.74	-16.95	-15.23	0.00	2.06	1.95	1.45	-6.77	-13.57	-11.88	-17.12	-15.39
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.17	0.23	0.18	-0.85	-1.70	-1.49	-2.14	-1.93	0.00	0.25	0.24	0.17	-0.86	-1.72	-1.50	-2.16	-1.94
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.27	0.35	0.26	-1.58	-3.12	-2.74	-3.92	-3.53	0.00	0.40	0.37	0.25	-1.60	-3.15	-2.77	-3.95	-3.56
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.05	0.06	0.04	-0.44	-0.84	-0.74	-1.05	-0.94	0.00	0.07	0.07	0.04	-0.44	-0.84	-0.75	-1.05	-0.95
Charleston, WV	-	Nonattainment	-	100	0.00	0.06	0.08	0.06	-0.38	-0.74	-0.65	-0.93	-0.83	0.00	0.09	0.08	0.06	-0.38	-0.74	-0.65	-0.93	-0.84
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.36	0.46	0.31	-2.58	-4.99	-4.40	-6.26	-5.65	0.00	0.53	0.48	0.30	-2.61	-5.03	-4.44	-6.30	-5.69
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.04	0.03	-0.02	-0.94	-1.71	-1.53	-2.12	-1.93	0.00	0.06	0.04	-0.02	-0.94	-1.72	-1.54	-2.13	-1.93
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	1.70	2.22	1.63	-9.75	-19.25	-16.91	-24.21	-21.80	0.00	2.48	2.30	1.59	-9.89	-19.42	-17.08	-24.41	-21.99
Chico, CA	Subpart 1	-	100	-	0.00	0.06	0.08	0.06	-0.36	-0.72	-0.63	-0.91	-0.82	0.00	0.09	0.09	0.06	-0.37	-0.73	-0.64	-0.91	-0.82
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.44	0.57	0.40	-2.76	-5.41	-4.76	-6.79	-6.12	0.00	0.64	0.59	0.39	-2.80	-5.46	-4.81	-6.84	-6.17
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.58	0.75	0.53	-3.58	-7.02	-6.18	-8.82	-7.95	0.00	0.84	0.78	0.52	-3.63	-7.08	-6.23	-8.88	-8.01
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.34	0.43	0.28	-2.53	-4.88	-4.31	-6.11	-5.52	0.00	0.50	0.45	0.27	-2.56	-4.92	-4.34	-6.15	-5.56
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	1.72	2.25	1.65	-9.91	-19.56	-17.19	-24.61	-22.16	0.00	2.51	2.34	1.62	-10.05	-19.74	-17.36	-24.81	-22.35
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.15	0.19	0.13	-1.05	-2.03	-1.79	-2.55	-2.30	0.00	0.22	0.20	0.13	-1.06	-2.05	-1.81	-2.56	-2.31
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.93	1.22	0.92	-4.99	-9.92	-8.70	-12.50	-11.25	0.00	1.35	1.27	0.90	-5.07	-10.02	-8.80	-12.60	-11.35
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.93	1.19	0.78	-6.74	-13.05	-11.51	-16.35	-14.76	0.00	1.36	1.24	0.76	-6.82	-13.15	-11.61	-16.46	-14.86
Door Co, WI	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	-0.05	-0.10	-0.09	-0.13	-0.11	0.00	0.01	0.01	0.01	-0.05	-0.10	-0.09	-0.13	-0.11
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
Evansville, IN	-	Nonattainment	-	100	0.00	0.02	0.02	-0.01	-0.53	-0.98	-0.87	-1.21	-1.10	0.00	0.03	0.02	-0.01	-0.54	-0.98	-0.88	-1.21	-1.10
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.41	0.54	0.41	-2.21	-4.39	-3.85	-5.52	-4.97	0.00	0.60	0.56	0.40	-2.24	-4.43	-3.89	-5.57	-5.02
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.19	0.25	0.18	-1.09	-2.16	-1.90	-2.72	-2.45	0.00	0.28	0.26	0.18	-1.11	-2.18	-1.92	-2.74	-2.47
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.19	0.25	0.19	-1.10	-2.18	-1.91	-2.74	-2.46	0.00	0.28	0.26	0.18	-1.12	-2.20	-1.93	-2.76	-2.49
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	-0.01	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.04	0.00	-0.01	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.04

Table C-11
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Benzene 2030																							
Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)									
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	
Hickory, NC	-	Nonattainment	-	100	0.00	0.04	0.05	0.03	-0.25	-0.49	-0.43	-0.61	-0.55	0.00	0.05	0.05	0.03	-0.25	-0.49	-0.43	-0.61	-0.55	
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-11.99	-17.40	-19.78	-36.02	-51.43	-49.10	-60.22	-56.63	0.00	-17.05	-18.04	-19.63	-35.14	-50.29	-47.97	-58.91	-55.39	
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-0.01	-0.02	-0.06	-0.61	-1.08	-0.97	-1.33	-1.21	0.00	-0.01	-0.02	-0.06	-0.61	-1.08	-0.97	-1.33	-1.21	
Imperial Co, CA	Moderate	-	100	-	0.00	0.06	0.08	0.06	-0.31	-0.61	-0.54	-0.77	-0.69	0.00	0.08	0.08	0.06	-0.31	-0.62	-0.54	-0.78	-0.70	
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.32	0.41	0.27	-2.35	-4.55	-4.01	-5.70	-5.14	0.00	0.47	0.43	0.26	-2.38	-4.58	-4.05	-5.74	-5.18	
Jamestown, NY	Subpart 1	-	100	-	0.00	0.03	0.04	0.03	-0.23	-0.44	-0.38	-0.55	-0.49	0.00	0.04	0.04	0.02	-0.23	-0.44	-0.39	-0.55	-0.50	
Jefferson Co, NY	Moderate	-	100	-	0.00	0.03	0.04	0.03	-0.17	-0.33	-0.29	-0.42	-0.37	0.00	0.04	0.04	0.03	-0.17	-0.33	-0.29	-0.42	-0.38	
Johnstown, PA	-	Nonattainment	-	100	0.00	-0.02	-0.03	-0.05	-0.24	-0.41	-0.37	-0.50	-0.46	0.00	-0.03	-0.03	-0.05	-0.24	-0.41	-0.37	-0.50	-0.46	
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.24	-0.35	-0.40	-0.73	-1.05	-1.00	-1.23	-1.16	0.00	-0.35	-0.37	-0.40	-0.72	-1.03	-0.98	-1.20	-1.13	
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.09	0.09	-0.04	-2.10	-3.86	-3.45	-4.78	-4.34	0.00	0.14	0.10	-0.04	-2.11	-3.87	-3.46	-4.80	-4.36	
Lancaster, PA	-	Nonattainment	-	100	0.00	0.12	0.16	0.12	-0.60	-1.20	-1.05	-1.52	-1.37	0.00	0.17	0.16	0.12	-0.61	-1.22	-1.07	-1.53	-1.38	
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.40	0.53	0.40	-2.14	-4.25	-3.73	-5.35	-4.81	0.00	0.59	0.55	0.39	-2.17	-4.29	-3.77	-5.40	-4.86	
Libby, MT	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.02	-0.03	-0.03	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.02	-0.03	-0.03	
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.09	-0.13	-0.14	-0.21	-0.29	-0.28	-0.33	-0.31	0.00	-0.13	-0.13	-0.14	-0.21	-0.28	-0.27	-0.32	-0.31	
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	3.80	4.97	3.68	-21.32	-42.18	-37.03	-53.07	-47.78	0.00	5.53	5.15	3.60	-21.62	-42.57	-37.42	-53.51	-48.21	
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-0.43	-0.64	-0.79	-2.31	-3.67	-3.41	-4.42	-4.09	0.00	-0.60	-0.66	-0.78	-2.28	-3.63	-3.37	-4.37	-4.04	
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.22	0.29	0.20	-1.52	-2.96	-2.61	-3.71	-3.35	0.00	0.33	0.30	0.19	-1.54	-2.98	-2.63	-3.74	-3.37	
Macon, GA	-	Nonattainment	-	100	0.00	-0.01	-0.02	-0.04	-0.39	-0.69	-0.62	-0.85	-0.77	0.00	-0.01	-0.02	-0.04	-0.39	-0.69	-0.62	-0.85	-0.77	
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.03	0.03	0.02	-0.14	-0.27	-0.24	-0.34	-0.31	0.00	0.04	0.03	0.02	-0.14	-0.27	-0.24	-0.34	-0.31	
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.03	0.04	0.03	-0.16	-0.32	-0.28	-0.40	-0.36	0.00	0.05	0.04	0.03	-0.16	-0.32	-0.28	-0.41	-0.36	
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.03	0.04	0.00	-0.53	-0.98	-0.88	-1.22	-1.11	0.00	0.05	0.04	0.00	-0.53	-0.99	-0.88	-1.23	-1.11	
Memphis, TN-AR	Moderate	-	100	-	0.00	0.14	0.17	0.08	-1.54	-2.90	-2.58	-3.62	-3.28	0.00	0.21	0.18	0.08	-1.55	-2.92	-2.59	-3.64	-3.30	
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.41	0.53	0.38	-2.50	-4.91	-4.32	-6.17	-5.56	0.00	0.60	0.55	0.37	-2.53	-4.95	-4.36	-6.22	-5.61	
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.04	0.05	0.04	-0.21	-0.41	-0.36	-0.52	-0.47	0.00	0.06	0.05	0.04	-0.21	-0.42	-0.36	-0.52	-0.47	
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	0.57	0.32	-1.43	-28.25	-51.07	-45.80	-63.17	-57.47	0.00	0.93	0.34	-1.46	-28.31	-51.16	-45.88	-63.26	-57.55	
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.01	0.01	0.00	-0.24	-0.44	-0.40	-0.55	-0.50	0.00	0.02	0.02	0.00	-0.24	-0.44	-0.40	-0.55	-0.50	
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-3.30	-4.94	-6.17	-19.18	-30.71	-28.40	-37.01	-34.20	0.00	-4.65	-5.12	-6.14	-18.95	-30.41	-28.10	-36.66	-33.87	
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	1.37	1.80	1.39	-6.84	-13.70	-12.00	-17.27	-15.54	0.00	1.99	1.87	1.36	-6.95	-13.84	-12.14	-17.43	-15.69	
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.36	0.45	0.27	-2.95	-5.67	-5.01	-7.09	-6.40	0.00	0.53	0.47	0.27	-2.98	-5.70	-5.05	-7.13	-6.44	
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.33	0.44	0.32	-1.95	-3.85	-3.38	-4.84	-4.36	0.00	0.49	0.45	0.31	-1.98	-3.88	-3.42	-4.88	-4.40	
Providence (All RI), RI	Moderate	-	100	-	0.00	0.21	0.27	0.18	-1.43	-2.78	-2.45	-3.49	-3.15	0.00	0.30	0.28	0.17	-1.45	-2.80	-2.47	-3.51	-3.17	
Reading, PA	-	Nonattainment	-	100	0.00	0.07	0.10	0.07	-0.47	-0.92	-0.81	-1.15	-1.04	0.00	0.11	0.10	0.07	-0.47	-0.92	-0.81	-1.16	-1.04	
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.15	0.20	0.14	-0.89	-1.76	-1.55	-2.21	-1.99	0.00	0.22	0.20	0.14	-0.91	-1.78	-1.56	-2.23	-2.01	

**Table C-11
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Benzene 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Rochester, NY	Subpart 1	-	100	-	0.00	0.32	0.41	0.30	-1.84	-3.62	-3.18	-4.56	-4.11	0.00	0.46	0.43	0.30	-1.86	-3.66	-3.22	-4.60	-4.14
Rome, GA	-	Nonattainment	-	100	0.00	0.01	0.01	0.00	-0.20	-0.37	-0.33	-0.46	-0.42	0.00	0.02	0.01	0.00	-0.20	-0.37	-0.33	-0.46	-0.42
Sacramento Metro, CA	Serious	-	50	-	0.00	0.56	0.71	0.46	-4.21	-8.12	-7.17	-10.17	-9.19	0.00	0.82	0.74	0.44	-4.26	-8.18	-7.23	-10.24	-9.25
San Diego, CA	Subpart 1	-	100	-	0.00	1.20	1.58	1.24	-5.65	-11.38	-9.95	-14.36	-12.91	0.00	1.74	1.64	1.22	-5.74	-11.50	-10.07	-14.50	-13.04
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-3.98	-5.95	-7.43	-22.87	-36.57	-33.83	-44.05	-40.72	0.00	-5.61	-6.17	-7.39	-22.59	-36.21	-33.47	-43.63	-40.32
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.92	1.17	0.74	-6.94	-13.39	-11.83	-16.77	-15.15	0.00	1.34	1.21	0.73	-7.02	-13.49	-11.92	-16.88	-15.25
Sheboygan, WI	Moderate	-	100	-	0.00	0.02	0.03	0.02	-0.18	-0.34	-0.30	-0.43	-0.38	0.00	0.04	0.03	0.02	-0.18	-0.34	-0.30	-0.43	-0.39
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.24	0.32	0.25	-1.16	-2.33	-2.04	-2.94	-2.64	0.00	0.35	0.34	0.25	-1.18	-2.36	-2.06	-2.97	-2.67
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.59	0.75	0.49	-4.24	-8.21	-7.24	-10.28	-9.28	0.00	0.86	0.78	0.48	-4.29	-8.27	-7.30	-10.35	-9.35
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	-0.01	-0.02	-0.18	-0.32	-0.29	-0.39	-0.36	0.00	0.00	-0.01	-0.02	-0.18	-0.32	-0.29	-0.39	-0.36
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
Ventura Co, CA	Serious	-	50	-	0.00	0.24	0.32	0.25	-1.15	-2.31	-2.02	-2.92	-2.62	0.00	0.35	0.33	0.24	-1.17	-2.34	-2.05	-2.95	-2.65
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	1.47	1.94	1.50	-7.31	-14.65	-12.83	-18.47	-16.61	0.00	2.14	2.02	1.48	-7.43	-14.80	-12.98	-18.65	-16.78
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	-0.02	-0.26	-0.47	-0.42	-0.58	-0.53	0.00	0.01	0.00	-0.02	-0.26	-0.47	-0.42	-0.58	-0.53
York, PA	-	Nonattainment	-	100	0.00	0.08	0.10	0.07	-0.49	-0.96	-0.85	-1.21	-1.09	0.00	0.11	0.11	0.07	-0.50	-0.97	-0.86	-1.22	-1.10

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-12
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Benzene 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.10	0.09	-0.14	-3.99	-7.27	-6.66	-9.20	-8.28	0.00	0.20	0.07	-0.18	-4.05	-7.35	-6.74	-9.29	-8.36
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.04	0.05	0.03	-0.40	-0.77	-0.70	-0.98	-0.88	0.00	0.07	0.05	0.02	-0.41	-0.78	-0.71	-1.00	-0.89
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.09	0.12	0.10	-0.40	-0.82	-0.74	-1.06	-0.94	0.00	0.14	0.12	0.09	-0.42	-0.84	-0.76	-1.09	-0.97
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	2.79	3.71	2.78	-16.52	-32.78	-29.55	-42.23	-37.60	0.00	4.36	3.68	2.48	-17.14	-33.58	-30.34	-43.14	-38.47
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	1.46	1.97	1.59	-6.86	-13.95	-12.52	-18.06	-16.04	0.00	2.27	1.96	1.44	-7.16	-14.34	-12.91	-18.51	-16.46
Baton Rouge, LA	Moderate	-	100	-	0.00	-5.92	-8.49	-9.42	-14.69	-19.83	-19.40	-23.10	-21.81	0.00	-8.57	-8.68	-9.16	-13.95	-18.88	-18.47	-22.02	-20.78
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-19.71	-28.20	-30.92	-42.42	-54.36	-53.89	-62.20	-59.36	0.00	-28.64	-28.82	-30.00	-39.90	-51.11	-50.67	-58.49	-55.82
Birmingham, AL	-	Nonattainment	-	100	0.00	0.38	0.51	0.37	-2.47	-4.87	-4.40	-6.27	-5.58	0.00	0.60	0.50	0.32	-2.56	-4.98	-4.51	-6.39	-5.71
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	2.53	3.41	2.77	-11.47	-23.42	-21.00	-30.34	-26.93	0.00	3.91	3.40	2.53	-11.99	-24.09	-21.67	-31.11	-27.66
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.31	0.41	0.33	-1.46	-2.96	-2.66	-3.83	-3.40	0.00	0.48	0.41	0.30	-1.52	-3.04	-2.74	-3.92	-3.49
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.49	0.65	0.50	-2.71	-5.42	-4.88	-7.00	-6.22	0.00	0.76	0.65	0.45	-2.82	-5.56	-5.02	-7.15	-6.37
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.09	0.12	0.08	-0.75	-1.45	-1.31	-1.85	-1.66	0.00	0.15	0.12	0.07	-0.77	-1.48	-1.34	-1.89	-1.69
Charleston, WV	-	Nonattainment	-	100	0.00	0.11	0.15	0.11	-0.64	-1.28	-1.15	-1.65	-1.47	0.00	0.17	0.15	0.10	-0.67	-1.31	-1.18	-1.69	-1.50
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.66	0.87	0.63	-4.41	-8.65	-7.82	-11.12	-9.92	0.00	1.04	0.87	0.55	-4.56	-8.85	-8.01	-11.35	-10.13
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.08	0.09	0.00	-1.59	-2.95	-2.69	-3.74	-3.36	0.00	0.14	0.09	-0.01	-1.62	-2.99	-2.73	-3.79	-3.40
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	3.07	4.09	3.15	-16.73	-33.47	-30.13	-43.18	-38.41	0.00	4.77	4.07	2.83	-17.39	-34.32	-30.97	-44.16	-39.34
Chico, CA	Subpart 1	-	100	-	0.00	0.11	0.15	0.12	-0.63	-1.25	-1.13	-1.61	-1.44	0.00	0.18	0.15	0.11	-0.65	-1.28	-1.16	-1.65	-1.47
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.79	1.05	0.79	-4.74	-9.39	-8.47	-12.10	-10.77	0.00	1.24	1.05	0.70	-4.91	-9.62	-8.70	-12.36	-11.02
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	1.05	1.39	1.05	-6.14	-12.19	-10.99	-15.71	-13.98	0.00	1.63	1.38	0.93	-6.37	-12.49	-11.28	-16.05	-14.31
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.62	0.82	0.58	-4.32	-8.46	-7.64	-10.86	-9.69	0.00	0.98	0.81	0.51	-4.47	-8.65	-7.83	-11.08	-9.89
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	3.11	4.15	3.20	-17.01	-34.02	-30.62	-43.89	-39.05	0.00	4.84	4.13	2.88	-17.68	-34.89	-31.48	-44.88	-39.99
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.28	0.37	0.26	-1.79	-3.52	-3.18	-4.53	-4.04	0.00	0.43	0.36	0.23	-1.85	-3.60	-3.26	-4.62	-4.13
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	1.67	2.23	1.76	-8.58	-17.27	-15.53	-22.31	-19.84	0.00	2.59	2.23	1.59	-8.93	-17.73	-15.98	-22.84	-20.33
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	1.71	2.26	1.61	-11.53	-22.62	-20.44	-29.07	-25.92	0.00	2.70	2.24	1.41	-11.93	-23.14	-20.94	-29.66	-26.48
Door Co, WI	Subpart 1	-	100	-	0.00	0.02	0.02	0.02	-0.09	-0.17	-0.16	-0.23	-0.20	0.00	0.03	0.02	0.02	-0.09	-0.18	-0.16	-0.23	-0.21
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.01	-0.02	-0.02	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.01	-0.02	-0.02
Evansville, IN	-	Nonattainment	-	100	0.00	0.05	0.05	0.00	-0.91	-1.68	-1.53	-2.13	-1.91	0.00	0.08	0.05	-0.01	-0.92	-1.70	-1.55	-2.16	-1.94
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.74	0.99	0.78	-3.79	-7.64	-6.87	-9.86	-8.77	0.00	1.15	0.98	0.70	-3.95	-7.84	-7.07	-10.10	-8.99
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.35	0.46	0.36	-1.88	-3.76	-3.38	-4.85	-4.31	0.00	0.54	0.46	0.32	-1.95	-3.86	-3.48	-4.96	-4.42

**Table C-12
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Benzene 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.35	0.46	0.36	-1.89	-3.78	-3.41	-4.88	-4.34	0.00	0.54	0.46	0.32	-1.97	-3.88	-3.50	-4.99	-4.45
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	-0.01	-0.01	-0.02	-0.04	-0.06	-0.05	-0.07	-0.06	0.00	-0.01	-0.01	-0.01	-0.04	-0.05	-0.05	-0.07	-0.06
Hickory, NC	-	Nonattainment	-	100	0.00	0.07	0.09	0.07	-0.43	-0.84	-0.76	-1.09	-0.97	0.00	0.11	0.09	0.06	-0.44	-0.86	-0.78	-1.11	-0.99
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-19.32	-27.86	-31.54	-58.96	-84.52	-81.52	-100.36	-93.69	0.00	-27.83	-28.56	-30.77	-56.69	-81.60	-78.62	-97.01	-90.50
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	0.00	-0.01	-0.07	-1.03	-1.85	-1.70	-2.33	-2.10	0.00	0.02	-0.02	-0.08	-1.04	-1.86	-1.71	-2.35	-2.12
Imperial Co, CA	Moderate	-	100	-	0.00	0.10	0.14	0.11	-0.53	-1.07	-0.96	-1.38	-1.22	0.00	0.16	0.14	0.10	-0.55	-1.09	-0.99	-1.41	-1.25
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.59	0.78	0.56	-4.02	-7.88	-7.12	-10.13	-9.03	0.00	0.94	0.78	0.49	-4.16	-8.06	-7.30	-10.33	-9.22
Jamestown, NY	Subpart 1	-	100	-	0.00	0.06	0.07	0.05	-0.39	-0.75	-0.68	-0.97	-0.87	0.00	0.09	0.07	0.05	-0.40	-0.77	-0.70	-0.99	-0.88
Jefferson Co, NY	Moderate	-	100	-	0.00	0.06	0.07	0.06	-0.29	-0.58	-0.52	-0.74	-0.66	0.00	0.09	0.07	0.05	-0.30	-0.59	-0.53	-0.76	-0.68
Johnstown, PA	-	Nonattainment	-	100	0.00	-0.03	-0.04	-0.07	-0.40	-0.69	-0.64	-0.87	-0.79	0.00	-0.04	-0.05	-0.07	-0.40	-0.69	-0.64	-0.87	-0.79
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.39	-0.56	-0.64	-1.20	-1.73	-1.66	-2.05	-1.91	0.00	-0.56	-0.58	-0.62	-1.16	-1.67	-1.60	-1.98	-1.85
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.20	0.24	0.03	-3.57	-6.63	-6.05	-8.43	-7.56	0.00	0.35	0.22	-0.01	-3.64	-6.73	-6.14	-8.53	-7.66
Lancaster, PA	-	Nonattainment	-	100	0.00	0.21	0.29	0.23	-1.04	-2.10	-1.88	-2.71	-2.41	0.00	0.33	0.29	0.21	-1.08	-2.15	-1.94	-2.78	-2.47
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.72	0.97	0.76	-3.67	-7.39	-6.65	-9.56	-8.49	0.00	1.12	0.96	0.69	-3.82	-7.59	-6.84	-9.78	-8.71
Libby, MT	-	Nonattainment	-	100	0.00	0.00	-0.01	-0.01	-0.03	-0.04	-0.04	-0.05	-0.05	0.00	-0.01	-0.01	-0.01	-0.03	-0.04	-0.04	-0.05	-0.05
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.14	-0.21	-0.23	-0.35	-0.47	-0.46	-0.54	-0.51	0.00	-0.21	-0.21	-0.22	-0.33	-0.44	-0.43	-0.52	-0.49
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	6.84	9.14	7.10	-36.59	-73.36	-66.01	-94.69	-84.22	0.00	10.64	9.10	6.39	-38.07	-75.26	-67.89	-96.86	-86.28
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-0.67	-0.98	-1.21	-3.84	-6.17	-5.80	-7.56	-6.93	0.00	-0.93	-1.02	-1.20	-3.78	-6.09	-5.72	-7.48	-6.85
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.41	0.54	0.40	-2.60	-5.13	-4.63	-6.60	-5.88	0.00	0.64	0.54	0.35	-2.69	-5.25	-4.75	-6.74	-6.01
Macon, GA	-	Nonattainment	-	100	0.00	-0.01	-0.02	-0.05	-0.66	-1.18	-1.08	-1.48	-1.34	0.00	0.00	-0.02	-0.06	-0.67	-1.19	-1.09	-1.49	-1.35
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.04	0.06	0.05	-0.23	-0.47	-0.42	-0.61	-0.54	0.00	0.07	0.06	0.04	-0.24	-0.48	-0.44	-0.62	-0.55
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.06	0.07	0.06	-0.27	-0.56	-0.50	-0.72	-0.64	0.00	0.09	0.07	0.05	-0.29	-0.57	-0.51	-0.74	-0.65
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.07	0.08	0.03	-0.90	-1.70	-1.54	-2.16	-1.94	0.00	0.11	0.08	0.02	-0.92	-1.72	-1.57	-2.19	-1.96
Memphis, TN-AR	Moderate	-	100	-	0.00	0.27	0.35	0.20	-2.62	-5.02	-4.55	-6.41	-5.73	0.00	0.44	0.34	0.16	-2.70	-5.11	-4.65	-6.52	-5.84
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.74	0.99	0.75	-4.29	-8.53	-7.69	-11.00	-9.79	0.00	1.16	0.98	0.67	-4.45	-8.74	-7.90	-11.24	-10.02
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.07	0.10	0.08	-0.35	-0.72	-0.64	-0.93	-0.82	0.00	0.11	0.10	0.07	-0.37	-0.74	-0.66	-0.95	-0.84
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	1.58	1.60	-1.16	-47.79	-87.64	-80.19	-111.00	-99.80	0.00	2.99	1.40	-1.62	-48.59	-88.67	-81.21	-112.17	-100.91
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.03	0.03	0.01	-0.41	-0.76	-0.70	-0.97	-0.87	0.00	0.05	0.03	0.01	-0.42	-0.77	-0.71	-0.98	-0.88

**Table C-12
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Benzene 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-5.11	-7.57	-9.49	-31.88	-51.62	-48.45	-63.45	-58.05	0.00	-7.14	-7.84	-9.41	-31.47	-51.10	-47.92	-62.84	-57.46
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	2.45	3.28	2.63	-11.77	-23.87	-21.44	-30.88	-27.43	0.00	3.79	3.27	2.38	-12.28	-24.53	-22.09	-31.63	-28.14
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.67	0.87	0.59	-5.04	-9.81	-8.88	-12.58	-11.23	0.00	1.06	0.86	0.51	-5.21	-10.02	-9.08	-12.82	-11.46
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.60	0.81	0.62	-3.35	-6.69	-6.03	-8.63	-7.68	0.00	0.94	0.80	0.55	-3.48	-6.86	-6.19	-8.82	-7.86
Providence (All RI), RI	Moderate	-	100	-	0.00	0.38	0.50	0.36	-2.45	-4.83	-4.36	-6.21	-5.53	0.00	0.59	0.50	0.32	-2.54	-4.94	-4.47	-6.33	-5.65
Reading, PA	-	Nonattainment	-	100	0.00	0.13	0.18	0.13	-0.80	-1.59	-1.43	-2.05	-1.82	0.00	0.21	0.18	0.12	-0.83	-1.63	-1.47	-2.09	-1.87
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.27	0.36	0.28	-1.53	-3.06	-2.76	-3.95	-3.51	0.00	0.42	0.36	0.25	-1.59	-3.14	-2.83	-4.03	-3.59
Rochester, NY	Subpart 1	-	100	-	0.00	0.57	0.77	0.59	-3.15	-6.30	-5.67	-8.13	-7.23	0.00	0.89	0.76	0.53	-3.28	-6.46	-5.83	-8.31	-7.41
Rome, GA	-	Nonattainment	-	100	0.00	0.02	0.03	0.01	-0.34	-0.64	-0.58	-0.81	-0.73	0.00	0.04	0.03	0.00	-0.35	-0.65	-0.59	-0.83	-0.74
Sacramento Metro, CA	Serious	-	50	-	0.00	1.03	1.35	0.95	-7.20	-14.08	-12.72	-18.08	-16.13	0.00	1.62	1.34	0.83	-7.44	-14.39	-13.03	-18.43	-16.46
San Diego, CA	Subpart 1	-	100	-	0.00	2.13	2.87	2.33	-9.72	-19.84	-17.80	-25.70	-22.81	0.00	3.30	2.87	2.12	-10.16	-20.41	-18.36	-26.35	-23.43
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-6.17	-9.14	-11.43	-38.00	-61.46	-57.69	-75.50	-69.09	0.00	-8.63	-9.46	-11.33	-37.50	-60.81	-57.05	-74.76	-68.38
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	1.69	2.22	1.55	-11.87	-23.21	-20.98	-29.81	-26.59	0.00	2.67	2.20	1.36	-12.27	-23.72	-21.49	-30.39	-27.14
Sheboygan, WI	Moderate	-	100	-	0.00	0.04	0.06	0.04	-0.30	-0.59	-0.53	-0.76	-0.68	0.00	0.07	0.06	0.04	-0.31	-0.60	-0.55	-0.77	-0.69
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.44	0.59	0.47	-1.99	-4.06	-3.65	-5.26	-4.67	0.00	0.67	0.58	0.43	-2.08	-4.18	-3.76	-5.40	-4.80
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	1.08	1.42	1.01	-7.25	-14.23	-12.85	-18.28	-16.30	0.00	1.69	1.40	0.89	-7.50	-14.55	-13.17	-18.65	-16.65
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	-0.01	-0.02	-0.31	-0.55	-0.50	-0.69	-0.62	0.00	0.00	-0.01	-0.03	-0.31	-0.55	-0.51	-0.69	-0.63
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
Ventura Co, CA	Serious	-	50	-	0.00	0.43	0.57	0.46	-1.98	-4.03	-3.62	-5.22	-4.64	0.00	0.66	0.57	0.42	-2.07	-4.15	-3.73	-5.35	-4.76
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	2.63	3.54	2.84	-12.58	-25.53	-22.92	-33.03	-29.34	0.00	4.08	3.53	2.58	-13.13	-26.24	-23.62	-33.84	-30.10
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.01	0.01	-0.01	-0.44	-0.81	-0.74	-1.02	-0.92	0.00	0.02	0.01	-0.02	-0.45	-0.82	-0.75	-1.03	-0.93
York, PA	-	Nonattainment	-	100	0.00	0.14	0.19	0.14	-0.84	-1.68	-1.51	-2.16	-1.92	0.00	0.22	0.19	0.13	-0.88	-1.72	-1.55	-2.21	-1.97

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-13
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.03	0.05	0.04	0.05	0.05	0.00	0.01	0.01	0.01	0.03	0.05	0.04	0.05	0.05
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	0.03	0.05	0.07	0.15	0.25	0.20	0.26	0.26	0.00	0.03	0.05	0.07	0.15	0.25	0.20	0.26	0.26
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.02	0.03	0.03	0.07	0.11	0.09	0.12	0.12	0.00	0.02	0.03	0.03	0.07	0.11	0.09	0.12	0.12
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.01	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.00	0.00	-0.01	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.00
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-0.06	-0.08	-0.09	-0.06	-0.06	-0.06	-0.06	-0.07	0.00	-0.06	-0.08	-0.09	-0.06	-0.06	-0.06	-0.06	-0.07
Birmingham, AL	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.01	0.01	0.01	0.02	0.04	0.03	0.04	0.04
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.03	0.04	0.06	0.12	0.20	0.16	0.21	0.21	0.00	0.03	0.04	0.06	0.12	0.20	0.16	0.21	0.21
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.03	0.05	0.04	0.05	0.05	0.00	0.01	0.01	0.01	0.03	0.05	0.04	0.05	0.05
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Charleston, WV	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.01	0.01	0.02	0.04	0.06	0.05	0.07	0.07	0.00	0.01	0.01	0.02	0.04	0.06	0.05	0.07	0.07
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	0.04	0.06	0.08	0.16	0.27	0.22	0.29	0.28	0.00	0.04	0.06	0.08	0.16	0.27	0.22	0.29	0.28
Chico, CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.01	0.02	0.02	0.05	0.08	0.06	0.08	0.08	0.00	0.01	0.02	0.02	0.05	0.08	0.06	0.08	0.08
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.01	0.02	0.03	0.06	0.10	0.08	0.11	0.11	0.00	0.01	0.02	0.03	0.06	0.10	0.08	0.11	0.11
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.01	0.01	0.02	0.04	0.06	0.05	0.07	0.07	0.00	0.01	0.01	0.02	0.04	0.06	0.05	0.07	0.07
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.04	0.06	0.07	0.16	0.25	0.21	0.27	0.27	0.00	0.04	0.06	0.07	0.16	0.25	0.21	0.27	0.27
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.02	0.03	0.04	0.08	0.13	0.11	0.14	0.14	0.00	0.02	0.03	0.04	0.08	0.13	0.11	0.14	0.14
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.03	0.04	0.05	0.11	0.18	0.15	0.19	0.19	0.00	0.03	0.04	0.05	0.11	0.18	0.15	0.19	0.19
Door Co, WI	Subpart 1	-	100	-	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
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.01	0.01	0.02	0.04	0.07	0.05	0.07	0.07	0.00	0.01	0.01	0.02	0.04	0.07	0.05	0.07	0.07
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.03
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	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
Hickory, NC	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01

Table C-13
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2016

Nonattainment Area	Status b/		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-0.09	-0.14	-0.15	-0.03	0.04	0.01	0.06	0.04	0.00	-0.09	-0.14	-0.15	-0.03	0.04	0.01	0.06	0.04
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Imperial Co, CA	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.01	0.01	0.02	0.04	0.06	0.05	0.06	0.06	0.00	0.01	0.01	0.02	0.04	0.06	0.05	0.06	0.06
Jamestown, NY	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Jefferson Co, NY	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Johnstown, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	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
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.01	0.01	0.01	0.03	0.04	0.04	0.05	0.05	0.00	0.01	0.01	0.01	0.03	0.04	0.04	0.05	0.05
Lancaster, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.03	0.05	0.04	0.06	0.06	0.00	0.01	0.01	0.01	0.03	0.05	0.04	0.06	0.06
Libby, MT	-	Nonattainment	-	100	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
Liberty-Clairton, PA	-	Nonattainment	-	100	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
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	0.08	0.13	0.16	0.35	0.57	0.47	0.61	0.60	0.00	0.08	0.13	0.16	0.35	0.57	0.47	0.61	0.60
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	0.00	0.00	0.01	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.01	0.02	0.03	0.02	0.03	0.03
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.03	0.04	0.04	0.05	0.05	0.00	0.01	0.01	0.01	0.03	0.04	0.04	0.05	0.05
Macon, GA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Manitowoc Co, WI	Subpart 1	-	100	-	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
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	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
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Memphis, TN-AR	Moderate	-	100	-	0.00	0.01	0.01	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.01	0.01	0.01	0.02	0.04	0.03	0.04	0.04
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.01	0.02	0.02	0.04	0.07	0.06	0.07	0.07	0.00	0.01	0.02	0.02	0.04	0.07	0.06	0.07	0.07
Nevada (Western Part), CA	Subpart 1	-	100	-	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
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	0.09	0.14	0.17	0.38	0.61	0.50	0.65	0.65	0.00	0.09	0.14	0.17	0.38	0.61	0.50	0.65	0.65
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	0.01	0.02	0.04	0.13	0.22	0.18	0.24	0.24	0.00	0.01	0.02	0.04	0.13	0.22	0.18	0.24	0.24
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.02	0.04	0.04	0.10	0.16	0.13	0.17	0.17	0.00	0.02	0.04	0.04	0.10	0.16	0.13	0.17	0.17
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.01	0.02	0.02	0.05	0.08	0.07	0.09	0.08	0.00	0.01	0.02	0.02	0.05	0.08	0.07	0.09	0.08
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.01	0.01	0.01	0.03	0.05	0.04	0.05	0.05	0.00	0.01	0.01	0.01	0.03	0.05	0.04	0.05	0.05
Providence (All RI), RI	Moderate	-	100	-	0.00	0.01	0.01	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.01	0.01	0.01	0.02	0.04	0.03	0.04	0.04
Reading, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02
Rochester, NY	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.03	0.05	0.04	0.06	0.06	0.00	0.01	0.01	0.01	0.03	0.05	0.04	0.06	0.06
Rome, GA	-	Nonattainment	-	100	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

Table C-13
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sacramento Metro, CA	Serious	-	50	-	0.00	0.01	0.02	0.03	0.06	0.09	0.07	0.10	0.10	0.00	0.01	0.02	0.03	0.06	0.09	0.07	0.10	0.10
San Diego, CA	Subpart 1	-	100	-	0.00	0.02	0.03	0.04	0.09	0.15	0.12	0.16	0.16	0.00	0.02	0.03	0.04	0.09	0.15	0.12	0.16	0.16
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	0.01	0.02	0.03	0.14	0.24	0.19	0.26	0.25	0.00	0.01	0.02	0.03	0.14	0.24	0.19	0.26	0.25
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.02	0.03	0.04	0.10	0.16	0.13	0.17	0.17	0.00	0.02	0.03	0.04	0.10	0.16	0.13	0.17	0.17
Sheboygan, WI	Moderate	-	100	-	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
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04	0.00	0.00	0.01	0.01	0.02	0.04	0.03	0.04	0.04
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.02	0.03	0.03	0.07	0.12	0.10	0.13	0.12	0.00	0.02	0.03	0.03	0.07	0.12	0.10	0.13	0.12
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	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
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.03
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.03	0.04	0.06	0.12	0.20	0.17	0.22	0.21	0.00	0.03	0.04	0.06	0.12	0.20	0.17	0.22	0.21
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
York, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-14
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2020																						
Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.06	0.00	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.06
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	0.12	0.17	0.18	0.21	0.28	0.31	0.36	0.33	0.00	0.14	0.17	0.18	0.21	0.28	0.31	0.36	0.33
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.06	0.08	0.08	0.09	0.13	0.14	0.16	0.15	0.00	0.06	0.08	0.08	0.09	0.13	0.14	0.16	0.15
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.03	-0.05	-0.05	-0.03	-0.03	-0.02	-0.02	-0.03	0.00	-0.04	-0.05	-0.05	-0.03	-0.03	-0.02	-0.02	-0.03
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-0.14	-0.20	-0.22	-0.18	-0.17	-0.18	-0.17	-0.19	0.00	-0.17	-0.21	-0.22	-0.18	-0.17	-0.17	-0.16	-0.18
Birmingham, AL	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.03	0.04	0.05	0.06	0.05	0.00	0.02	0.03	0.03	0.03	0.04	0.05	0.06	0.05
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.10	0.13	0.14	0.16	0.22	0.24	0.28	0.25	0.00	0.11	0.13	0.14	0.16	0.22	0.24	0.28	0.25
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.00	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.02	0.03	0.03	0.04	0.05	0.06	0.06	0.06	0.00	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.06
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01
Charleston, WV	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.03	0.04	0.05	0.05	0.07	0.08	0.09	0.09	0.00	0.04	0.04	0.05	0.05	0.07	0.08	0.09	0.08
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	0.13	0.18	0.19	0.22	0.30	0.33	0.38	0.34	0.00	0.14	0.18	0.19	0.22	0.30	0.32	0.37	0.34
Chico, CA	Subpart 1	-	100	-	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.04	0.05	0.05	0.06	0.08	0.09	0.11	0.10	0.00	0.04	0.05	0.05	0.06	0.08	0.09	0.11	0.10
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.05	0.07	0.07	0.08	0.11	0.12	0.14	0.13	0.00	0.06	0.07	0.07	0.08	0.11	0.12	0.14	0.13
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.03	0.04	0.05	0.05	0.07	0.08	0.09	0.08	0.00	0.03	0.04	0.05	0.05	0.07	0.08	0.09	0.08
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.13	0.17	0.19	0.22	0.29	0.32	0.37	0.34	0.00	0.14	0.18	0.19	0.21	0.29	0.32	0.37	0.34
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.00	0.02	0.02	0.02	0.02	0.03	0.04	0.04	0.04
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.07	0.09	0.10	0.11	0.15	0.16	0.19	0.17	0.00	0.07	0.09	0.10	0.11	0.15	0.16	0.19	0.17
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.09	0.12	0.13	0.15	0.20	0.22	0.25	0.23	0.00	0.10	0.12	0.13	0.15	0.20	0.22	0.25	0.23
Door Co, WI	Subpart 1	-	100	-	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
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.03	0.04	0.05	0.05	0.07	0.08	0.09	0.08	0.00	0.04	0.04	0.05	0.05	0.07	0.08	0.09	0.08
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.00	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.00	0.02	0.02	0.02	0.02	0.03	0.04	0.04	0.04
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	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
Hickory, NC	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01

Table C-14
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-0.21	-0.31	-0.34	-0.23	-0.17	-0.15	-0.10	-0.16	0.00	-0.26	-0.32	-0.34	-0.23	-0.17	-0.15	-0.09	-0.16
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Imperial Co, CA	Moderate	-	100	-	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.03	0.04	0.04	0.05	0.07	0.07	0.09	0.08	0.00	0.03	0.04	0.04	0.05	0.07	0.07	0.08	0.08
Jamestown, NY	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Jefferson Co, NY	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Johnstown, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	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
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.00	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.06
Lancaster, PA	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.07	0.00	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.07
Libby, MT	-	Nonattainment	-	100	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
Liberty-Clairton, PA	-	Nonattainment	-	100	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
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	0.28	0.38	0.41	0.48	0.64	0.70	0.81	0.74	0.00	0.31	0.39	0.41	0.47	0.64	0.70	0.81	0.74
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.03	0.00	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.03
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.03	0.05	0.05	0.06	0.05	0.00	0.02	0.03	0.03	0.03	0.05	0.05	0.06	0.05
Macon, GA	-	Nonattainment	-	100	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Memphis, TN-AR	Moderate	-	100	-	0.00	0.02	0.03	0.03	0.03	0.04	0.05	0.06	0.05	0.00	0.02	0.03	0.03	0.03	0.04	0.05	0.05	0.05
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.03	0.05	0.05	0.06	0.08	0.08	0.10	0.09	0.00	0.04	0.05	0.05	0.06	0.08	0.08	0.10	0.09
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	0.30	0.41	0.43	0.50	0.68	0.74	0.85	0.78	0.00	0.33	0.41	0.43	0.50	0.67	0.74	0.85	0.78
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	0.07	0.09	0.09	0.14	0.21	0.24	0.29	0.25	0.00	0.07	0.09	0.09	0.14	0.21	0.23	0.28	0.25
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.08	0.11	0.12	0.14	0.19	0.21	0.24	0.22	0.00	0.09	0.11	0.12	0.14	0.19	0.21	0.24	0.22
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.04	0.05	0.06	0.07	0.09	0.10	0.11	0.10	0.00	0.04	0.05	0.06	0.06	0.09	0.10	0.11	0.10
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.02	0.03	0.04	0.04	0.06	0.06	0.07	0.07	0.00	0.03	0.03	0.04	0.04	0.06	0.06	0.07	0.07
Providence (All RI), RI	Moderate	-	100	-	0.00	0.02	0.03	0.03	0.03	0.04	0.05	0.05	0.05	0.00	0.02	0.03	0.03	0.03	0.04	0.05	0.05	0.05
Reading, PA	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03
Rochester, NY	Subpart 1	-	100	-	0.00	0.03	0.03	0.04	0.04	0.06	0.06	0.07	0.07	0.00	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.07
Rome, GA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01

Table C-14
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sacramento Metro, CA	Serious	-	50	-	0.00	0.05	0.06	0.07	0.08	0.11	0.12	0.13	0.12	0.00	0.05	0.06	0.07	0.08	0.11	0.12	0.13	0.12
San Diego, CA	Subpart 1	-	100	-	0.00	0.07	0.10	0.11	0.13	0.17	0.19	0.22	0.20	0.00	0.08	0.10	0.11	0.13	0.17	0.19	0.21	0.20
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	0.07	0.09	0.09	0.14	0.22	0.25	0.31	0.27	0.00	0.07	0.09	0.09	0.14	0.22	0.25	0.31	0.27
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.08	0.11	0.11	0.13	0.18	0.20	0.23	0.21	0.00	0.09	0.11	0.11	0.13	0.18	0.20	0.23	0.21
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.04	0.00	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.04
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.06	0.08	0.08	0.10	0.13	0.14	0.16	0.15	0.00	0.06	0.08	0.08	0.10	0.13	0.14	0.16	0.15
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.00	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.10	0.14	0.15	0.17	0.23	0.25	0.29	0.26	0.00	0.11	0.14	0.15	0.17	0.23	0.25	0.29	0.26
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
York, PA	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-15
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2030																						
Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.08	0.11	0.11	-0.01	-0.10	-0.06	-0.12	-0.10	0.00	0.11	0.11	0.10	-0.01	-0.10	-0.06	-0.13	-0.11
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.01
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.01	0.02	0.01	0.00	-0.01	-0.01	-0.02	-0.01	0.00	0.02	0.02	0.01	0.00	-0.01	-0.01	-0.02	-0.02
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	0.43	0.57	0.56	-0.03	-0.51	-0.31	-0.66	-0.54	0.00	0.59	0.59	0.56	-0.06	-0.54	-0.34	-0.69	-0.58
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.19	0.25	0.25	-0.02	-0.23	-0.14	-0.29	-0.24	0.00	0.26	0.26	0.25	-0.03	-0.24	-0.15	-0.31	-0.26
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.05	-0.08	-0.09	-0.13	-0.18	-0.16	-0.19	-0.19	0.00	-0.08	-0.08	-0.09	-0.13	-0.18	-0.16	-0.19	-0.19
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-0.29	-0.42	-0.45	-0.42	-0.44	-0.44	-0.44	-0.46	0.00	-0.42	-0.44	-0.45	-0.41	-0.43	-0.43	-0.43	-0.45
Birmingham, AL	-	Nonattainment	-	100	0.00	0.06	0.08	0.08	-0.01	-0.07	-0.05	-0.10	-0.08	0.00	0.09	0.09	0.08	-0.01	-0.08	-0.05	-0.10	-0.08
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.32	0.43	0.42	-0.03	-0.38	-0.23	-0.50	-0.41	0.00	0.44	0.44	0.42	-0.04	-0.40	-0.25	-0.52	-0.43
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.04	0.05	0.05	0.00	-0.05	-0.03	-0.06	-0.05	0.00	0.06	0.06	0.05	-0.01	-0.05	-0.03	-0.07	-0.05
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.07	0.10	0.09	-0.01	-0.09	-0.05	-0.11	-0.09	0.00	0.10	0.10	0.09	-0.01	-0.09	-0.06	-0.12	-0.10
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.02	0.02	0.02	0.00	-0.02	-0.01	-0.03	-0.02	0.00	0.02	0.02	0.02	0.00	-0.02	-0.01	-0.03	-0.02
Charleston, WV	-	Nonattainment	-	100	0.00	0.02	0.02	0.02	0.00	-0.02	-0.01	-0.03	-0.02	0.00	0.02	0.02	0.02	0.00	-0.02	-0.01	-0.03	-0.02
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.11	0.15	0.15	-0.01	-0.13	-0.08	-0.17	-0.14	0.00	0.15	0.15	0.14	-0.02	-0.14	-0.09	-0.18	-0.15
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.03	0.04	0.04	0.00	-0.04	-0.02	-0.05	-0.04	0.00	0.05	0.05	0.04	0.00	-0.04	-0.03	-0.05	-0.05
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	0.44	0.59	0.58	-0.04	-0.53	-0.32	-0.69	-0.57	0.00	0.60	0.60	0.57	-0.06	-0.56	-0.35	-0.72	-0.60
Chico, CA	Subpart 1	-	100	-	0.00	0.02	0.02	0.02	0.00	-0.02	-0.01	-0.03	-0.02	0.00	0.02	0.02	0.02	0.00	-0.02	-0.01	-0.03	-0.02
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.12	0.16	0.16	-0.01	-0.15	-0.09	-0.19	-0.16	0.00	0.17	0.17	0.16	-0.02	-0.15	-0.10	-0.20	-0.16
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.16	0.21	0.21	-0.01	-0.19	-0.11	-0.25	-0.20	0.00	0.22	0.22	0.21	-0.02	-0.20	-0.12	-0.26	-0.21
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.11	0.14	0.14	-0.01	-0.13	-0.08	-0.17	-0.14	0.00	0.15	0.15	0.14	-0.01	-0.14	-0.08	-0.17	-0.14
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.46	0.60	0.59	-0.04	-0.54	-0.32	-0.69	-0.57	0.00	0.62	0.62	0.59	-0.06	-0.57	-0.35	-0.73	-0.61
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.05	0.06	0.06	0.00	-0.05	-0.03	-0.07	-0.06	0.00	0.06	0.06	0.06	-0.01	-0.06	-0.04	-0.07	-0.06
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.23	0.31	0.30	-0.02	-0.28	-0.17	-0.36	-0.29	0.00	0.32	0.32	0.30	-0.03	-0.29	-0.18	-0.37	-0.31
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.29	0.39	0.38	-0.02	-0.35	-0.21	-0.45	-0.37	0.00	0.40	0.40	0.38	-0.04	-0.36	-0.23	-0.47	-0.39
Door Co, WI	Subpart 1	-	100	-	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
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.00	-0.02	-0.01	-0.03	-0.02	0.00	0.03	0.03	0.02	0.00	-0.02	-0.02	-0.03	-0.03
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.10	0.14	0.13	-0.01	-0.12	-0.07	-0.16	-0.13	0.00	0.14	0.14	0.13	-0.01	-0.13	-0.08	-0.17	-0.14
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.05	0.07	0.07	0.00	-0.06	-0.04	-0.08	-0.06	0.00	0.07	0.07	0.06	-0.01	-0.06	-0.04	-0.08	-0.07
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.05	0.07	0.07	0.00	-0.06	-0.04	-0.08	-0.06	0.00	0.07	0.07	0.07	-0.01	-0.06	-0.04	-0.08	-0.07
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	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
Hickory, NC	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.01

Table C-15
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-0.30	-0.48	-0.56	-0.92	-1.30	-1.15	-1.41	-1.37	0.00	-0.48	-0.51	-0.56	-0.91	-1.29	-1.15	-1.41	-1.36
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	0.02	0.03	0.02	0.00	-0.02	-0.02	-0.03	-0.03	0.00	0.03	0.03	0.02	0.00	-0.03	-0.02	-0.03	-0.03
Imperial Co, CA	Moderate	-	100	-	0.00	0.01	0.02	0.02	0.00	-0.02	-0.01	-0.02	-0.02	0.00	0.02	0.02	0.02	0.00	-0.02	-0.01	-0.02	-0.02
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.10	0.13	0.13	-0.01	-0.12	-0.07	-0.16	-0.13	0.00	0.14	0.14	0.13	-0.01	-0.13	-0.08	-0.16	-0.14
Jamestown, NY	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.01
Jefferson Co, NY	Moderate	-	100	-	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01
Johnstown, PA	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.00	-0.01	0.00	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.08	0.10	0.10	-0.01	-0.09	-0.05	-0.12	-0.10	0.00	0.10	0.10	0.10	-0.01	-0.10	-0.06	-0.12	-0.10
Lancaster, PA	-	Nonattainment	-	100	0.00	0.03	0.04	0.04	0.00	-0.03	-0.02	-0.04	-0.04	0.00	0.04	0.04	0.04	0.00	-0.04	-0.02	-0.05	-0.04
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.10	0.13	0.13	-0.01	-0.12	-0.07	-0.15	-0.13	0.00	0.14	0.14	0.13	-0.01	-0.12	-0.08	-0.16	-0.13
Libby, MT	-	Nonattainment	-	100	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
Liberty-Clairton, PA	-	Nonattainment	-	100	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
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	0.98	1.29	1.28	-0.09	-1.17	-0.71	-1.51	-1.25	0.00	1.33	1.33	1.26	-0.14	-1.23	-0.77	-1.58	-1.32
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	0.04	0.06	0.05	-0.01	-0.06	-0.04	-0.08	-0.07	0.00	0.06	0.06	0.05	-0.01	-0.07	-0.04	-0.08	-0.07
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.07	0.09	0.09	-0.01	-0.08	-0.05	-0.10	-0.08	0.00	0.09	0.09	0.09	-0.01	-0.08	-0.05	-0.11	-0.09
Macon, GA	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.00	-0.01	-0.01	-0.02	-0.02	0.00	0.02	0.02	0.02	0.00	-0.02	-0.01	-0.02	-0.02
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.00	-0.01	0.00	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	0.00	-0.01	-0.01
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.00	-0.02	-0.01	-0.03	-0.03	0.00	0.03	0.03	0.03	0.00	-0.03	-0.02	-0.03	-0.03
Memphis, TN-AR	Moderate	-	100	-	0.00	0.06	0.08	0.08	-0.01	-0.07	-0.04	-0.10	-0.08	0.00	0.08	0.08	0.08	-0.01	-0.08	-0.05	-0.10	-0.08
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.11	0.15	0.15	-0.01	-0.13	-0.08	-0.17	-0.14	0.00	0.15	0.15	0.15	-0.02	-0.14	-0.09	-0.18	-0.15
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.01
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	0.99	1.30	1.29	-0.08	-1.17	-0.70	-1.51	-1.25	0.00	1.35	1.34	1.27	-0.13	-1.23	-0.77	-1.58	-1.32
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	0.29	0.37	0.35	-0.20	-0.64	-0.45	-0.78	-0.68	0.00	0.38	0.38	0.34	-0.21	-0.67	-0.48	-0.81	-0.71
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.33	0.43	0.43	-0.03	-0.39	-0.23	-0.50	-0.41	0.00	0.44	0.44	0.42	-0.04	-0.41	-0.25	-0.52	-0.43
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.12	0.16	0.16	-0.01	-0.15	-0.09	-0.19	-0.16	0.00	0.17	0.17	0.16	-0.02	-0.16	-0.10	-0.20	-0.17
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.09	0.12	0.12	-0.01	-0.11	-0.06	-0.14	-0.11	0.00	0.12	0.12	0.12	-0.01	-0.11	-0.07	-0.14	-0.12
Providence (All RI), RI	Moderate	-	100	-	0.00	0.06	0.08	0.08	-0.01	-0.07	-0.04	-0.10	-0.08	0.00	0.09	0.09	0.08	-0.01	-0.08	-0.05	-0.10	-0.08
Reading, PA	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.00	-0.02	-0.01	-0.03	-0.03	0.00	0.03	0.03	0.03	0.00	-0.03	-0.02	-0.03	-0.03
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.04	0.05	0.05	0.00	-0.05	-0.03	-0.06	-0.05	0.00	0.06	0.06	0.05	-0.01	-0.05	-0.03	-0.07	-0.05
Rochester, NY	Subpart 1	-	100	-	0.00	0.08	0.11	0.11	-0.01	-0.10	-0.06	-0.13	-0.11	0.00	0.11	0.11	0.11	-0.01	-0.10	-0.07	-0.13	-0.11
Rome, GA	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01

Table C-15
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sacramento Metro, CA	Serious	-	50	-	0.00	0.18	0.23	0.23	-0.02	-0.22	-0.13	-0.28	-0.23	0.00	0.24	0.24	0.23	-0.03	-0.23	-0.15	-0.29	-0.25
San Diego, CA	Subpart 1	-	100	-	0.00	0.27	0.36	0.36	-0.02	-0.32	-0.19	-0.42	-0.35	0.00	0.37	0.37	0.35	-0.04	-0.34	-0.21	-0.44	-0.36
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	0.34	0.42	0.40	-0.24	-0.77	-0.55	-0.94	-0.82	0.00	0.44	0.43	0.39	-0.26	-0.80	-0.58	-0.97	-0.85
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.29	0.39	0.38	-0.03	-0.36	-0.22	-0.46	-0.38	0.00	0.40	0.40	0.38	-0.05	-0.38	-0.24	-0.48	-0.40
Sheboygan, WI	Moderate	-	100	-	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.06	0.07	0.07	0.00	-0.07	-0.04	-0.09	-0.07	0.00	0.08	0.08	0.07	-0.01	-0.07	-0.04	-0.09	-0.07
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.18	0.24	0.24	-0.01	-0.22	-0.13	-0.28	-0.23	0.00	0.25	0.25	0.24	-0.02	-0.23	-0.14	-0.29	-0.24
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.00	-0.01	0.00	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	0.00	-0.01	-0.01
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.06	0.07	0.07	0.00	-0.07	-0.04	-0.08	-0.07	0.00	0.08	0.08	0.07	-0.01	-0.07	-0.04	-0.09	-0.07
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.35	0.46	0.46	-0.03	-0.41	-0.25	-0.53	-0.44	0.00	0.48	0.48	0.45	-0.05	-0.44	-0.27	-0.56	-0.47
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01
York, PA	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.00	-0.03	-0.02	-0.03	-0.03	0.00	0.03	0.03	0.03	0.00	-0.03	-0.02	-0.04	-0.03

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-16
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2050																						
Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.14	0.19	0.19	-0.03	-0.22	-0.16	-0.29	-0.24	0.00	0.21	0.19	0.18	-0.05	-0.24	-0.18	-0.32	-0.27
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.02	0.02	0.02	0.00	-0.03	-0.02	-0.03	-0.03	0.00	0.02	0.02	0.02	-0.01	-0.03	-0.02	-0.04	-0.03
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.02	0.03	0.03	0.00	-0.03	-0.02	-0.04	-0.03	0.00	0.03	0.03	0.02	-0.01	-0.03	-0.03	-0.05	-0.04
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	0.77	1.01	1.00	-0.17	-1.15	-0.83	-1.56	-1.27	0.00	1.10	1.01	0.94	-0.28	-1.29	-0.97	-1.71	-1.41
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.34	0.45	0.44	-0.07	-0.51	-0.37	-0.69	-0.56	0.00	0.49	0.45	0.42	-0.12	-0.57	-0.43	-0.76	-0.63
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.07	-0.11	-0.13	-0.22	-0.32	-0.29	-0.36	-0.34	0.00	-0.11	-0.12	-0.13	-0.22	-0.33	-0.30	-0.37	-0.35
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-0.47	-0.68	-0.73	-0.70	-0.74	-0.74	-0.76	-0.77	0.00	-0.70	-0.70	-0.71	-0.67	-0.71	-0.71	-0.73	-0.74
Birmingham, AL	-	Nonattainment	-	100	0.00	0.11	0.15	0.15	-0.02	-0.17	-0.12	-0.23	-0.19	0.00	0.16	0.15	0.14	-0.04	-0.19	-0.14	-0.25	-0.21
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.58	0.76	0.75	-0.13	-0.86	-0.63	-1.17	-0.95	0.00	0.82	0.76	0.70	-0.21	-0.97	-0.73	-1.28	-1.06
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.07	0.09	0.09	-0.02	-0.11	-0.08	-0.15	-0.12	0.00	0.10	0.10	0.09	-0.03	-0.12	-0.09	-0.16	-0.13
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.13	0.17	0.17	-0.03	-0.19	-0.14	-0.26	-0.21	0.00	0.18	0.17	0.16	-0.05	-0.22	-0.16	-0.29	-0.24
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.03	0.04	0.04	-0.01	-0.05	-0.04	-0.07	-0.05	0.00	0.05	0.04	0.04	-0.01	-0.05	-0.04	-0.07	-0.06
Charleston, WV	-	Nonattainment	-	100	0.00	0.03	0.04	0.04	-0.01	-0.05	-0.03	-0.06	-0.05	0.00	0.04	0.04	0.04	-0.01	-0.05	-0.04	-0.07	-0.06
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.20	0.26	0.26	-0.04	-0.30	-0.22	-0.40	-0.33	0.00	0.28	0.26	0.24	-0.07	-0.33	-0.25	-0.44	-0.37
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.06	0.08	0.08	-0.01	-0.09	-0.07	-0.12	-0.10	0.00	0.09	0.08	0.07	-0.02	-0.10	-0.08	-0.13	-0.11
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	0.79	1.04	1.02	-0.18	-1.20	-0.87	-1.62	-1.32	0.00	1.13	1.04	0.97	-0.29	-1.34	-1.01	-1.78	-1.47
Chico, CA	Subpart 1	-	100	-	0.00	0.03	0.04	0.04	-0.01	-0.04	-0.03	-0.06	-0.05	0.00	0.04	0.04	0.04	-0.01	-0.05	-0.04	-0.07	-0.05
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.22	0.29	0.28	-0.05	-0.33	-0.24	-0.45	-0.36	0.00	0.31	0.29	0.27	-0.08	-0.37	-0.28	-0.49	-0.40
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.29	0.38	0.37	-0.06	-0.43	-0.31	-0.58	-0.47	0.00	0.41	0.38	0.35	-0.10	-0.48	-0.36	-0.64	-0.53
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.19	0.25	0.25	-0.04	-0.29	-0.21	-0.39	-0.32	0.00	0.28	0.25	0.24	-0.07	-0.32	-0.24	-0.43	-0.36
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.81	1.06	1.05	-0.18	-1.21	-0.88	-1.64	-1.34	0.00	1.15	1.06	0.99	-0.29	-1.35	-1.02	-1.80	-1.49
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.08	0.11	0.11	-0.02	-0.12	-0.09	-0.17	-0.13	0.00	0.12	0.11	0.10	-0.03	-0.14	-0.10	-0.18	-0.15
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.41	0.55	0.54	-0.09	-0.62	-0.45	-0.84	-0.69	0.00	0.59	0.55	0.51	-0.15	-0.70	-0.52	-0.92	-0.76
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.52	0.68	0.67	-0.11	-0.78	-0.56	-1.06	-0.86	0.00	0.74	0.68	0.64	-0.19	-0.87	-0.65	-1.16	-0.96
Door Co, WI	Subpart 1	-	100	-	0.00	0.00	0.01	0.01	0.00	-0.01	0.00	-0.01	-0.01	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.01
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.03	0.05	0.04	-0.01	-0.05	-0.04	-0.07	-0.06	0.00	0.05	0.05	0.04	-0.01	-0.06	-0.04	-0.08	-0.06
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.18	0.24	0.24	-0.04	-0.28	-0.20	-0.37	-0.30	0.00	0.26	0.24	0.22	-0.07	-0.31	-0.23	-0.41	-0.34
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.09	0.12	0.12	-0.02	-0.13	-0.10	-0.18	-0.15	0.00	0.13	0.12	0.11	-0.03	-0.15	-0.11	-0.20	-0.16
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.09	0.12	0.12	-0.02	-0.14	-0.10	-0.18	-0.15	0.00	0.13	0.12	0.11	-0.03	-0.15	-0.11	-0.20	-0.17
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	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
Hickory, NC	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.00	-0.03	-0.02	-0.04	-0.03	0.00	0.03	0.03	0.02	-0.01	-0.03	-0.02	-0.04	-0.04

Table C-16
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-0.44	-0.71	-0.84	-1.60	-2.38	-2.16	-2.71	-2.54	0.00	-0.70	-0.75	-0.84	-1.61	-2.42	-2.20	-2.77	-2.58
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	0.03	0.04	0.04	-0.01	-0.05	-0.04	-0.07	-0.06	0.00	0.05	0.04	0.04	-0.01	-0.06	-0.05	-0.08	-0.07
Imperial Co, CA	Moderate	-	100	-	0.00	0.03	0.03	0.03	-0.01	-0.04	-0.03	-0.05	-0.04	0.00	0.04	0.03	0.03	-0.01	-0.04	-0.03	-0.06	-0.05
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.18	0.24	0.23	-0.04	-0.27	-0.20	-0.37	-0.30	0.00	0.26	0.24	0.22	-0.06	-0.30	-0.23	-0.40	-0.33
Jamestown, NY	Subpart 1	-	100	-	0.00	0.02	0.02	0.02	0.00	-0.03	-0.02	-0.04	-0.03	0.00	0.02	0.02	0.02	-0.01	-0.03	-0.02	-0.04	-0.03
Jefferson Co, NY	Moderate	-	100	-	0.00	0.01	0.02	0.02	0.00	-0.02	-0.01	-0.03	-0.02	0.00	0.02	0.02	0.02	0.00	-0.02	-0.02	-0.03	-0.03
Johnstown, PA	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.00	-0.02	-0.01	-0.02	-0.02	0.00	0.02	0.02	0.01	0.00	-0.02	-0.01	-0.03	-0.02
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	-0.01	-0.03	-0.02	-0.04	-0.03	0.00	0.01	0.01	0.01	-0.01	-0.03	-0.03	-0.04	-0.03
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.14	0.18	0.18	-0.03	-0.21	-0.15	-0.28	-0.23	0.00	0.20	0.18	0.17	-0.05	-0.23	-0.17	-0.31	-0.25
Lancaster, PA	-	Nonattainment	-	100	0.00	0.05	0.07	0.07	-0.01	-0.08	-0.06	-0.10	-0.08	0.00	0.07	0.07	0.06	-0.02	-0.09	-0.06	-0.11	-0.09
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.18	0.23	0.23	-0.04	-0.27	-0.19	-0.36	-0.29	0.00	0.25	0.23	0.22	-0.06	-0.30	-0.22	-0.40	-0.33
Libby, MT	-	Nonattainment	-	100	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
Liberty-Clairton, PA	-	Nonattainment	-	100	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
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	1.74	2.29	2.25	-0.39	-2.64	-1.91	-3.56	-2.90	0.00	2.48	2.29	2.13	-0.64	-2.94	-2.21	-3.91	-3.23
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	0.08	0.10	0.10	-0.03	-0.14	-0.10	-0.18	-0.15	0.00	0.11	0.10	0.09	-0.04	-0.15	-0.12	-0.20	-0.17
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.12	0.16	0.15	-0.03	-0.18	-0.13	-0.24	-0.20	0.00	0.17	0.16	0.15	-0.04	-0.20	-0.15	-0.26	-0.22
Macon, GA	-	Nonattainment	-	100	0.00	0.02	0.03	0.03	0.00	-0.03	-0.02	-0.05	-0.04	0.00	0.03	0.03	0.03	-0.01	-0.04	-0.03	-0.05	-0.04
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.00	-0.02	-0.01	-0.02	-0.02	0.00	0.02	0.01	0.01	0.00	-0.02	-0.01	-0.03	-0.02
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.01	0.02	0.02	0.00	-0.02	-0.01	-0.03	-0.02	0.00	0.02	0.02	0.02	0.00	-0.02	-0.02	-0.03	-0.02
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.04	0.05	0.05	-0.01	-0.05	-0.04	-0.07	-0.06	0.00	0.05	0.05	0.04	-0.01	-0.06	-0.05	-0.08	-0.07
Memphis, TN-AR	Moderate	-	100	-	0.00	0.11	0.14	0.14	-0.03	-0.17	-0.12	-0.22	-0.18	0.00	0.15	0.14	0.13	-0.04	-0.19	-0.14	-0.25	-0.20
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.20	0.26	0.26	-0.04	-0.30	-0.22	-0.41	-0.33	0.00	0.29	0.26	0.25	-0.07	-0.34	-0.25	-0.45	-0.37
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.02	0.02	0.02	0.00	-0.03	-0.02	-0.04	-0.03	0.00	0.02	0.02	0.02	-0.01	-0.03	-0.02	-0.04	-0.03
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	1.76	2.31	2.27	-0.38	-2.64	-1.91	-3.57	-2.90	0.00	2.51	2.31	2.15	-0.63	-2.94	-2.21	-3.91	-3.23
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.02	0.02	0.02	0.00	-0.02	-0.02	-0.03	-0.03	0.00	0.02	0.02	0.02	-0.01	-0.03	-0.02	-0.04	-0.03
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	0.53	0.68	0.64	-0.42	-1.35	-1.06	-1.74	-1.48	0.00	0.75	0.67	0.60	-0.51	-1.47	-1.17	-1.87	-1.60
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.58	0.76	0.75	-0.13	-0.87	-0.63	-1.18	-0.96	0.00	0.83	0.76	0.71	-0.21	-0.97	-0.73	-1.29	-1.07
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.22	0.29	0.29	-0.05	-0.33	-0.24	-0.45	-0.37	0.00	0.32	0.29	0.27	-0.08	-0.37	-0.28	-0.49	-0.41
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.16	0.21	0.21	-0.03	-0.24	-0.17	-0.32	-0.26	0.00	0.23	0.21	0.19	-0.06	-0.27	-0.20	-0.35	-0.29
Providence (All RI), RI	Moderate	-	100	-	0.00	0.11	0.15	0.14	-0.02	-0.17	-0.12	-0.23	-0.18	0.00	0.16	0.15	0.14	-0.04	-0.19	-0.14	-0.25	-0.21
Reading, PA	-	Nonattainment	-	100	0.00	0.04	0.05	0.05	-0.01	-0.06	-0.04	-0.08	-0.06	0.00	0.05	0.05	0.05	-0.01	-0.06	-0.05	-0.08	-0.07
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.07	0.10	0.09	-0.02	-0.11	-0.08	-0.15	-0.12	0.00	0.10	0.10	0.09	-0.03	-0.12	-0.09	-0.16	-0.13
Rochester, NY	Subpart 1	-	100	-	0.00	0.15	0.20	0.19	-0.03	-0.22	-0.16	-0.30	-0.25	0.00	0.21	0.20	0.18	-0.05	-0.25	-0.19	-0.33	-0.28
Rome, GA	-	Nonattainment	-	100	0.00	0.01	0.02	0.02	0.00	-0.02	-0.01	-0.03	-0.02	0.00	0.02	0.02	0.02	0.00	-0.02	-0.02	-0.03	-0.02

Table C-16
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Butadiene 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sacramento Metro, CA	Serious	-	50	-	0.00	0.32	0.41	0.41	-0.08	-0.49	-0.36	-0.66	-0.54	0.00	0.45	0.41	0.38	-0.12	-0.55	-0.41	-0.72	-0.60
San Diego, CA	Subpart 1	-	100	-	0.00	0.49	0.64	0.63	-0.11	-0.73	-0.53	-0.99	-0.81	0.00	0.70	0.64	0.60	-0.17	-0.82	-0.61	-1.09	-0.90
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	0.62	0.78	0.74	-0.52	-1.62	-1.27	-2.08	-1.77	0.00	0.87	0.77	0.69	-0.62	-1.76	-1.40	-2.23	-1.91
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.52	0.69	0.67	-0.12	-0.80	-0.58	-1.08	-0.88	0.00	0.74	0.69	0.64	-0.20	-0.90	-0.68	-1.19	-0.98
Sheboygan, WI	Moderate	-	100	-	0.00	0.01	0.02	0.02	0.00	-0.02	-0.01	-0.03	-0.02	0.00	0.02	0.02	0.02	0.00	-0.02	-0.02	-0.03	-0.02
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.10	0.13	0.13	-0.02	-0.15	-0.11	-0.20	-0.16	0.00	0.14	0.13	0.12	-0.04	-0.17	-0.13	-0.22	-0.18
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.33	0.43	0.42	-0.07	-0.49	-0.35	-0.66	-0.54	0.00	0.47	0.43	0.40	-0.12	-0.55	-0.41	-0.73	-0.60
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.00	-0.02	-0.01	-0.02	-0.02	0.00	0.01	0.01	0.01	0.00	-0.02	-0.01	-0.02	-0.02
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.10	0.13	0.13	-0.02	-0.15	-0.11	-0.20	-0.16	0.00	0.14	0.13	0.12	-0.04	-0.17	-0.12	-0.22	-0.18
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.62	0.82	0.81	-0.14	-0.93	-0.67	-1.26	-1.03	0.00	0.89	0.82	0.76	-0.22	-1.04	-0.78	-1.38	-1.14
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.02	0.02	0.02	0.00	-0.02	-0.02	-0.03	-0.03	0.00	0.02	0.02	0.02	-0.01	-0.03	-0.02	-0.04	-0.03
York, PA	-	Nonattainment	-	100	0.00	0.04	0.05	0.05	-0.01	-0.06	-0.04	-0.08	-0.06	0.00	0.06	0.05	0.05	-0.01	-0.07	-0.05	-0.09	-0.07

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-17
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Carbon Monoxide 2016

Nonattainment Area	Status <u>b</u> / O3 PM2.5		General Conformity Threshold <u>c</u> / O3 PM2.5		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	57.55	62.00	20.32	-415.79	-770.82	-591.52	-826.59	-803.62	0.00	57.55	62.00	20.32	-415.79	-770.82	-591.52	-826.59	-803.62
Allegan Co, MI	Subpart 1	-	100	-	0.00	6.30	6.79	2.23	-45.50	-84.35	-64.73	-90.45	-87.94	0.00	6.30	6.79	2.23	-45.50	-84.35	-64.73	-90.45	-87.94
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	6.40	6.90	2.27	-46.24	-85.72	-65.78	-91.92	-89.37	0.00	6.40	6.90	2.27	-46.24	-85.72	-65.78	-91.92	-89.37
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	287.51	309.78	101.60	-2,077.01	-3,850.51	-2,954.82	-4,129.10	-4,014.35	0.00	287.51	309.78	101.60	-2,077.01	-3,850.51	-2,954.82	-4,129.10	-4,014.35
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	132.40	142.57	46.50	-958.28	-1,776.33	-1,363.18	-1,904.81	-1,851.93	0.00	132.40	142.57	46.50	-958.28	-1,776.33	-1,363.18	-1,904.81	-1,851.93
Baton Rouge, LA	Moderate	-	100	-	0.00	-23.75	-47.49	-82.18	-304.28	-510.26	-407.17	-538.71	-536.09	0.00	-23.75	-47.49	-82.18	-304.28	-510.26	-407.17	-538.71	-536.09
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-5.06	-14.81	-33.31	-166.69	-286.02	-226.15	-303.10	-299.95	0.00	-5.06	-14.81	-33.31	-166.69	-286.02	-226.15	-303.10	-299.95
Birmingham, AL	-	Nonattainment	-	100	0.00	46.66	50.13	15.99	-340.29	-630.49	-483.94	-676.05	-657.35	0.00	46.66	50.13	15.99	-340.29	-630.49	-483.94	-676.05	-657.35
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	230.46	248.28	81.34	-1,665.48	-3,087.52	-2,369.33	-3,310.90	-3,218.90	0.00	230.46	248.28	81.34	-1,665.48	-3,087.52	-2,369.33	-3,310.90	-3,218.90
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	28.02	30.20	9.92	-202.33	-375.10	-287.85	-402.25	-391.06	0.00	28.02	30.20	9.92	-202.33	-375.10	-287.85	-402.25	-391.06
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	53.45	57.60	18.92	-385.93	-715.49	-549.05	-767.26	-745.93	0.00	53.45	57.60	18.92	-385.93	-715.49	-549.05	-767.26	-745.93
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	11.51	11.46	0.92	-103.43	-189.44	-146.04	-202.79	-197.68	0.00	11.51	11.46	0.92	-103.43	-189.44	-146.04	-202.79	-197.68
Charleston, WV	-	Nonattainment	-	100	0.00	13.32	14.35	4.71	-96.14	-178.24	-136.78	-191.14	-185.82	0.00	13.32	14.35	4.71	-96.14	-178.24	-136.78	-191.14	-185.82
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	75.39	81.17	26.44	-545.90	-1,011.88	-776.54	-1,085.07	-1,054.95	0.00	75.39	81.17	26.44	-545.90	-1,011.88	-776.54	-1,085.07	-1,054.95
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	24.73	26.65	8.75	-178.59	-331.09	-254.07	-355.04	-345.17	0.00	24.73	26.65	8.75	-178.59	-331.09	-254.07	-355.04	-345.17
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	242.04	232.56	-9.62	-2,362.25	-4,309.87	-3,327.45	-4,610.79	-4,498.57	0.00	242.04	232.56	-9.62	-2,362.25	-4,309.87	-3,327.45	-4,610.79	-4,498.57
Chico, CA	Subpart 1	-	100	-	0.00	10.26	11.06	3.63	-74.11	-137.40	-105.44	-147.34	-143.24	0.00	10.26	11.06	3.63	-74.11	-137.40	-105.44	-147.34	-143.24
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	88.04	94.88	31.17	-635.67	-1,178.50	-904.35	-1,263.77	-1,228.64	0.00	88.04	94.88	31.17	-635.67	-1,178.50	-904.35	-1,263.77	-1,228.64
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	120.15	129.48	42.54	-867.50	-1,608.29	-1,234.16	-1,724.67	-1,676.72	0.00	120.15	129.48	42.54	-867.50	-1,608.29	-1,234.16	-1,724.67	-1,676.72
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	73.50	79.20	26.02	-530.65	-983.80	-754.94	-1,054.98	-1,025.66	0.00	73.50	79.20	26.02	-530.65	-983.80	-754.94	-1,054.98	-1,025.66
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	295.40	317.99	103.42	-2,140.33	-3,967.18	-3,044.56	-4,254.11	-4,136.04	0.00	295.40	317.99	103.42	-2,140.33	-3,967.18	-3,044.56	-4,254.11	-4,136.04
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	35.03	37.75	12.40	-252.89	-468.84	-359.78	-502.77	-488.79	0.00	35.03	37.75	12.40	-252.89	-468.84	-359.78	-502.77	-488.79
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	147.43	156.74	44.99	-1,110.88	-2,054.24	-1,577.89	-2,202.05	-2,142.04	0.00	147.43	156.74	44.99	-1,110.88	-2,054.24	-1,577.89	-2,202.05	-2,142.04
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	210.48	225.74	70.87	-1,543.12	-2,858.19	-2,194.07	-3,064.59	-2,980.01	0.00	210.48	225.74	70.87	-1,543.12	-2,858.19	-2,194.07	-3,064.59	-2,980.01
Door Co, WI	Subpart 1	-	100	-	0.00	1.62	1.75	0.58	-11.73	-21.74	-16.69	-23.32	-22.67	0.00	1.62	1.75	0.58	-11.73	-21.74	-16.69	-23.32	-22.67
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.07	0.07	0.02	-0.47	-0.88	-0.67	-0.94	-0.92	0.00	0.07	0.07	0.02	-0.47	-0.88	-0.67	-0.94	-0.92
Evansville, IN	-	Nonattainment	-	100	0.00	14.15	15.25	5.00	-102.26	-189.57	-145.47	-203.29	-197.64	0.00	14.15	15.25	5.00	-102.26	-189.57	-145.47	-203.29	-197.64
Greater Connecticut, CT	Moderate	-	100	-	0.00	76.70	82.62	27.05	-554.40	-1,027.75	-788.69	-1,102.10	-1,071.48	0.00	76.70	82.62	27.05	-554.40	-1,027.75	-788.69	-1,102.10	-1,071.48
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	36.34	39.13	12.74	-263.24	-487.93	-374.45	-523.22	-508.70	0.00	36.34	39.13	12.74	-263.24	-487.93	-374.45	-523.22	-508.70
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	34.84	37.53	12.29	-251.80	-466.79	-358.21	-500.56	-486.65	0.00	34.84	37.53	12.29	-251.80	-466.79	-358.21	-500.56	-486.65

**Table C-17
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Carbon Monoxide 2016

Nonattainment Area	Status b/		General Conformity Threshold c/		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.24	0.26	0.08	-1.72	-3.19	-2.45	-3.42	-3.33	0.00	0.24	0.26	0.08	-1.72	-3.19	-2.45	-3.42	-3.33
Hickory, NC	-	Nonattainment	-	100	0.00	8.18	8.82	2.90	-59.08	-109.53	-84.05	-117.45	-114.19	0.00	8.18	8.82	2.90	-59.08	-109.53	-84.05	-117.45	-114.19
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	169.27	152.01	-42.57	-1,883.19	-3,416.48	-2,643.41	-3,651.93	-3,567.57	0.00	169.27	152.01	-42.57	-1,883.19	-3,416.48	-2,643.41	-3,651.93	-3,567.57
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-20.07	-35.71	-54.56	-161.16	-264.13	-212.73	-277.80	-278.03	0.00	-20.07	-35.71	-54.56	-161.16	-264.13	-212.73	-277.80	-278.03
Imperial Co, CA	Moderate	-	100	-	0.00	9.14	9.85	3.24	-66.02	-122.40	-93.93	-131.26	-127.61	0.00	9.14	9.85	3.24	-66.02	-122.40	-93.93	-131.26	-127.61
Indianapolis, IN	-	Nonattainment	-	100	0.00	70.22	75.67	24.86	-507.02	-939.98	-721.32	-1,007.99	-979.97	0.00	70.22	75.67	24.86	-507.02	-939.98	-721.32	-1,007.99	-979.97
Jamestown, NY	Subpart 1	-	100	-	0.00	7.19	7.75	2.54	-51.89	-96.21	-73.83	-103.17	-100.30	0.00	7.19	7.75	2.54	-51.89	-96.21	-73.83	-103.17	-100.30
Jefferson Co, NY	Moderate	-	100	-	0.00	5.66	6.10	2.01	-40.90	-75.83	-58.19	-81.31	-79.05	0.00	5.66	6.10	2.01	-40.90	-75.83	-58.19	-81.31	-79.05
Johnstown, PA	-	Nonattainment	-	100	0.00	5.54	5.97	1.96	-40.03	-74.21	-56.95	-79.58	-77.37	0.00	5.54	5.97	1.96	-40.03	-74.21	-56.95	-79.58	-77.37
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	4.16	4.28	0.79	-34.47	-63.40	-48.79	-67.91	-66.13	0.00	4.16	4.28	0.79	-34.47	-63.40	-48.79	-67.91	-66.13
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	51.16	55.13	18.11	-369.39	-684.82	-525.51	-734.37	-713.96	0.00	51.16	55.13	18.11	-369.39	-684.82	-525.51	-734.37	-713.96
Lancaster, PA	-	Nonattainment	-	100	0.00	20.07	21.61	7.05	-145.25	-269.24	-206.62	-288.71	-280.69	0.00	20.07	21.61	7.05	-145.25	-269.24	-206.62	-288.71	-280.69
Las Vegas, NV	Subpart 1	-	100	-	0.00	61.62	66.41	21.82	-444.91	-824.83	-632.95	-884.51	-859.92	0.00	61.62	66.41	21.82	-444.91	-824.83	-632.95	-884.51	-859.92
Libby, MT	-	Nonattainment	-	100	0.00	0.28	0.30	0.10	-2.03	-3.77	-2.89	-4.04	-3.93	0.00	0.28	0.30	0.10	-2.03	-3.77	-2.89	-4.04	-3.93
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	0.63	0.64	0.11	-5.22	-9.61	-7.39	-10.29	-10.02	0.00	0.63	0.64	0.11	-5.22	-9.61	-7.39	-10.29	-10.02
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	610.67	635.83	141.18	-4,892.82	-9,016.22	-6,934.68	-9,660.00	-9,404.03	0.00	610.67	635.83	141.18	-4,892.82	-9,016.22	-6,934.68	-9,660.00	-9,404.03
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-24.82	-49.00	-83.80	-304.57	-509.89	-407.15	-538.18	-535.78	0.00	-24.82	-49.00	-83.80	-304.57	-509.89	-407.15	-538.18	-535.78
Louisville, KY-IN	-	Nonattainment	-	100	0.00	49.96	53.83	17.69	-360.68	-668.67	-513.12	-717.06	-697.12	0.00	49.96	53.83	17.69	-360.68	-668.67	-513.12	-717.06	-697.12
Macon, GA	-	Nonattainment	-	100	0.00	9.64	10.39	3.41	-69.60	-129.04	-99.02	-138.38	-134.53	0.00	9.64	10.39	3.41	-69.60	-129.04	-99.02	-138.38	-134.53
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	4.79	5.17	1.70	-34.61	-64.17	-49.24	-68.81	-66.90	0.00	4.79	5.17	1.70	-34.61	-64.17	-49.24	-68.81	-66.90
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	4.56	4.92	1.62	-32.95	-61.09	-46.88	-65.51	-63.69	0.00	4.56	4.92	1.62	-32.95	-61.09	-46.88	-65.51	-63.69
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	14.34	15.45	5.08	-103.53	-191.94	-147.29	-205.82	-200.10	0.00	14.34	15.45	5.08	-103.53	-191.94	-147.29	-205.82	-200.10
Memphis, TN-AR	Moderate	-	100	-	0.00	43.26	45.40	11.18	-339.03	-625.51	-480.88	-670.30	-652.36	0.00	43.26	45.40	11.18	-339.03	-625.51	-480.88	-670.30	-652.36
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	80.69	86.95	28.57	-582.58	-1,080.07	-828.81	-1,158.22	-1,126.02	0.00	80.69	86.95	28.57	-582.58	-1,080.07	-828.81	-1,158.22	-1,126.02
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	5.45	5.87	1.93	-39.35	-72.95	-55.98	-78.23	-76.06	0.00	5.45	5.87	1.93	-39.35	-72.95	-55.98	-78.23	-76.06
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	710.97	764.33	245.50	-5,173.20	-9,586.25	-7,357.55	-10,279.18	-9,994.47	0.00	710.97	764.33	245.50	-5,173.20	-9,586.25	-7,357.55	-10,279.18	-9,994.47
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	6.89	7.43	2.44	-49.76	-92.25	-70.79	-98.92	-96.17	0.00	6.89	7.43	2.44	-49.76	-92.25	-70.79	-98.92	-96.17
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	255.53	257.87	31.47	-2,225.46	-4,082.79	-3,145.51	-4,371.44	-4,259.80	0.00	255.53	257.87	31.47	-2,225.46	-4,082.79	-3,145.51	-4,371.44	-4,259.80
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	184.08	198.34	65.05	-1,329.86	-2,465.39	-1,891.90	-2,643.76	-2,570.29	0.00	184.08	198.34	65.05	-1,329.86	-2,465.39	-1,891.90	-2,643.76	-2,570.29
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	93.81	100.99	32.86	-679.59	-1,259.65	-966.70	-1,350.76	-1,313.27	0.00	93.81	100.99	32.86	-679.59	-1,259.65	-966.70	-1,350.76	-1,313.27
Poughkeepsie, NY	Moderate	-	100	-	0.00	58.57	63.12	20.73	-422.86	-783.96	-601.59	-840.69	-817.32	0.00	58.57	63.12	20.73	-422.86	-783.96	-601.59	-840.69	-817.32
Providence (All RI), RI	Moderate	-	100	-	0.00	43.74	46.98	14.97	-319.17	-591.35	-453.89	-634.07	-616.53	0.00	43.74	46.98	14.97	-319.17	-591.35	-453.89	-634.07	-616.53

Table C-17
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Carbon Monoxide 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Reading, PA	-	Nonattainment	-	100	0.00	15.27	16.45	5.41	-110.24	-204.38	-156.84	-219.17	-213.08	0.00	15.27	16.45	5.41	-110.24	-204.38	-156.84	-219.17	-213.08
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	24.51	26.41	8.68	-176.94	-328.03	-251.72	-351.76	-341.98	0.00	24.51	26.41	8.68	-176.94	-328.03	-251.72	-351.76	-341.98
Rochester, NY	Subpart 1	-	100	-	0.00	61.15	65.90	21.65	-441.49	-818.49	-628.09	-877.72	-853.32	0.00	61.15	65.90	21.65	-441.49	-818.49	-628.09	-877.72	-853.32
Rome, GA	-	Nonattainment	-	100	0.00	5.48	5.90	1.94	-39.54	-73.30	-56.25	-78.60	-76.41	0.00	5.48	5.90	1.94	-39.54	-73.30	-56.25	-78.60	-76.41
Sacramento Metro, CA	Serious	-	50	-	0.00	105.80	113.11	34.38	-783.72	-1,450.73	-1,113.90	-1,555.35	-1,512.63	0.00	105.80	113.11	34.38	-783.72	-1,450.73	-1,113.90	-1,555.35	-1,512.63
San Diego, CA	Subpart 1	-	100	-	0.00	173.15	186.60	61.30	-1,250.18	-2,317.76	-1,778.59	-2,485.46	-2,416.37	0.00	173.15	186.60	61.30	-1,250.18	-2,317.76	-1,778.59	-2,485.46	-2,416.37
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	314.16	333.61	94.55	-2,375.80	-4,392.42	-3,374.15	-4,708.33	-4,580.24	0.00	314.16	333.61	94.55	-2,375.80	-4,392.42	-3,374.15	-4,708.33	-4,580.24
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	186.15	200.36	65.07	-1,349.36	-2,501.02	-1,919.39	-2,681.89	-2,607.48	0.00	186.15	200.36	65.07	-1,349.36	-2,501.02	-1,919.39	-2,681.89	-2,607.48
Sheboygan, WI	Moderate	-	100	-	0.00	5.36	5.77	1.90	-38.68	-71.72	-55.03	-76.90	-74.77	0.00	5.36	5.77	1.90	-38.68	-71.72	-55.03	-76.90	-74.77
Springfield (Western MA), MA	Moderate	-	100	-	0.00	40.90	44.02	14.30	-296.45	-549.46	-421.68	-589.20	-572.85	0.00	40.90	44.02	14.30	-296.45	-549.46	-421.68	-589.20	-572.85
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	125.25	129.88	27.17	-1,015.04	-1,869.28	-1,438.07	-2,002.56	-1,949.77	0.00	125.25	129.88	27.17	-1,015.04	-1,869.28	-1,438.07	-2,002.56	-1,949.77
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	4.04	4.09	0.53	-34.99	-64.21	-49.47	-68.76	-67.00	0.00	4.04	4.09	0.53	-34.99	-64.21	-49.47	-68.76	-67.00
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	34.65	37.21	11.85	-252.84	-468.44	-359.55	-502.28	-488.39	0.00	34.65	37.21	11.85	-252.84	-468.44	-359.55	-502.28	-488.39
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	236.13	254.46	83.60	-1,704.86	-3,160.71	-2,425.45	-3,389.41	-3,295.19	0.00	236.13	254.46	83.60	-1,704.86	-3,160.71	-2,425.45	-3,389.41	-3,295.19
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	7.33	7.90	2.59	-52.92	-98.10	-75.28	-105.20	-102.28	0.00	7.33	7.90	2.59	-52.92	-98.10	-75.28	-105.20	-102.28
York, PA	-	Nonattainment	-	100	0.00	15.49	16.69	5.48	-111.85	-207.36	-159.12	-222.36	-216.18	0.00	15.49	16.69	5.48	-111.85	-207.36	-159.12	-222.36	-216.18

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-18
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Carbon Monoxide 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	163.21	188.59	106.98	-1,042.76	-2,016.74	-1,647.13	-2,338.10	-2,174.57	0.00	190.14	192.33	107.20	-1,045.47	-2,020.32	-1,650.65	-2,342.18	-2,178.41
Allegan Co, MI	Subpart 1	-	100	-	0.00	18.09	20.91	11.87	-115.53	-223.45	-182.49	-259.05	-240.93	0.00	21.08	21.33	11.89	-115.83	-223.84	-182.88	-259.51	-241.36
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	19.24	22.23	12.62	-122.82	-237.56	-194.02	-275.41	-256.15	0.00	22.41	22.67	12.65	-123.14	-237.98	-194.43	-275.89	-256.60
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	839.00	969.51	550.04	-5,359.48	-10,365.64	-8,465.90	-12,017.39	-11,176.85	0.00	977.45	988.73	551.17	-5,373.45	-10,384.05	-8,483.96	-12,038.37	-11,196.61
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	378.12	436.78	247.39	-2,419.58	-4,678.98	-3,821.60	-5,424.45	-5,045.15	0.00	440.49	445.43	247.89	-2,425.88	-4,687.28	-3,829.74	-5,433.91	-5,054.06
Baton Rouge, LA	Moderate	-	100	-	0.00	-47.04	-95.02	-160.82	-782.05	-1,341.28	-1,133.60	-1,523.83	-1,444.90	0.00	-60.17	-97.78	-161.74	-782.32	-1,342.06	-1,134.29	-1,524.87	-1,445.74
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-7.17	-25.66	-60.22	-416.54	-732.47	-614.52	-835.87	-789.21	0.00	-10.65	-26.54	-60.60	-416.87	-733.09	-615.09	-836.63	-789.88
Birmingham, AL	-	Nonattainment	-	100	0.00	130.88	150.96	84.93	-843.35	-1,629.95	-1,331.48	-1,889.47	-1,757.50	0.00	152.44	153.95	85.10	-845.54	-1,632.83	-1,334.31	-1,892.76	-1,760.60
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	653.22	754.78	428.07	-4,174.22	-8,073.01	-6,593.50	-9,359.40	-8,704.80	0.00	761.01	769.74	428.95	-4,185.09	-8,087.35	-6,607.56	-9,375.74	-8,720.20
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	79.80	92.23	52.35	-509.51	-985.48	-804.86	-1,142.52	-1,062.60	0.00	92.97	94.05	52.46	-510.84	-987.23	-806.58	-1,144.52	-1,064.48
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	149.56	172.85	98.11	-954.93	-1,846.97	-1,508.46	-2,141.30	-1,991.52	0.00	174.25	176.28	98.31	-957.42	-1,850.26	-1,511.68	-2,145.04	-1,995.04
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	32.57	35.90	15.81	-254.24	-484.41	-397.26	-560.27	-522.26	0.00	37.72	36.58	15.82	-254.83	-485.20	-398.03	-561.18	-523.12
Charleston, WV	-	Nonattainment	-	100	0.00	36.69	42.40	24.07	-234.24	-453.05	-370.02	-525.25	-488.51	0.00	42.74	43.24	24.12	-234.85	-453.86	-370.81	-526.17	-489.37
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	218.17	252.00	142.68	-1,396.63	-2,700.72	-2,205.85	-3,130.99	-2,912.07	0.00	254.16	256.99	142.97	-1,400.26	-2,705.51	-2,210.55	-3,136.45	-2,917.21
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	70.39	81.35	46.17	-449.51	-869.40	-710.06	-1,007.95	-937.44	0.00	82.01	82.96	46.26	-450.68	-870.95	-711.57	-1,009.71	-939.10
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	710.12	768.14	297.92	-5,932.28	-11,252.62	-9,239.50	-13,005.50	-12,131.50	0.00	820.38	782.24	297.78	-5,945.47	-11,270.55	-9,256.98	-13,026.11	-12,150.75
Chico, CA	Subpart 1	-	100	-	0.00	30.11	34.79	19.75	-192.22	-371.79	-303.65	-431.04	-400.88	0.00	35.08	35.48	19.79	-192.72	-372.45	-304.29	-431.79	-401.59
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	249.90	288.81	163.93	-1,595.54	-3,086.03	-2,520.42	-3,577.81	-3,327.54	0.00	291.14	294.53	164.27	-1,599.70	-3,091.51	-2,525.79	-3,584.06	-3,333.43
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	334.48	386.55	219.41	-2,135.56	-4,130.50	-3,373.46	-4,788.73	-4,453.76	0.00	389.68	394.22	219.87	-2,141.13	-4,137.84	-3,380.65	-4,797.09	-4,461.64
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	209.99	242.68	137.75	-1,340.69	-2,593.11	-2,117.84	-3,006.34	-2,796.04	0.00	244.64	247.49	138.03	-1,344.19	-2,597.71	-2,122.36	-3,011.59	-2,800.99
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	861.05	994.46	562.78	-5,514.62	-10,663.44	-8,709.62	-12,362.24	-11,497.94	0.00	1,003.07	1,014.16	563.94	-5,528.97	-10,682.36	-8,728.18	-12,383.80	-11,518.25
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	96.78	111.85	63.49	-617.91	-1,195.13	-976.08	-1,385.58	-1,288.66	0.00	112.75	114.06	63.62	-619.52	-1,197.25	-978.16	-1,388.00	-1,290.94
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	434.54	498.22	272.37	-2,880.05	-5,553.74	-4,539.56	-6,435.73	-5,988.25	0.00	505.73	508.02	272.87	-2,887.39	-5,563.46	-4,549.08	-6,446.81	-5,998.67
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	587.49	676.94	378.97	-3,804.37	-7,349.80	-6,004.59	-8,519.50	-7,924.93	0.00	684.18	690.32	379.72	-3,814.21	-7,362.78	-6,017.32	-8,534.29	-7,938.86
Door Co, WI	Subpart 1	-	100	-	0.00	4.64	5.36	3.04	-29.63	-57.30	-46.80	-66.43	-61.79	0.00	5.41	5.47	3.05	-29.70	-57.40	-46.90	-66.55	-61.89
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.18	0.21	0.12	-1.18	-2.28	-1.87	-2.65	-2.46	0.00	0.22	0.22	0.12	-1.18	-2.29	-1.87	-2.65	-2.47
Evansville, IN	-	Nonattainment	-	100	0.00	39.78	45.96	26.07	-254.16	-491.55	-401.47	-569.88	-530.02	0.00	46.34	46.87	26.12	-254.82	-492.42	-402.32	-570.87	-530.96
Greater Connecticut, CT	Moderate	-	100	-	0.00	213.94	247.19	140.17	-1,367.41	-2,644.55	-2,159.90	-3,065.93	-2,851.51	0.00	249.24	252.09	140.45	-1,370.97	-2,649.25	-2,164.51	-3,071.29	-2,856.55
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	103.73	119.81	67.82	-664.20	-1,284.36	-1,049.03	-1,488.98	-1,384.88	0.00	120.84	122.19	67.96	-665.93	-1,286.64	-1,051.27	-1,491.58	-1,387.32

**Table C-18
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Carbon Monoxide 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	731.58	812.95	375.97	-5,536.49	-10,571.42	-8,664.38	-12,231.11	-11,397.66	0.00	848.02	828.38	376.28	-5,549.51	-10,588.93	-8,681.48	-12,251.17	-11,416.45
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	560.18	647.32	367.25	-3,578.34	-6,920.78	-5,652.39	-8,023.60	-7,462.40	0.00	652.61	660.15	368.01	-3,587.66	-6,933.08	-5,664.45	-8,037.61	-7,475.60
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	260.41	300.75	170.20	-1,667.85	-3,225.05	-2,634.14	-3,738.84	-3,477.44	0.00	303.36	306.71	170.55	-1,672.19	-3,230.77	-2,639.75	-3,745.36	-3,483.58
Poughkeepsie, NY	Moderate	-	100	-	0.00	168.23	194.42	110.35	-1,074.08	-2,077.44	-1,696.68	-2,408.49	-2,240.02	0.00	195.99	198.27	110.58	-1,076.88	-2,081.13	-1,700.30	-2,412.70	-2,243.98
Providence (All RI), RI	Moderate	-	100	-	0.00	124.09	143.12	80.48	-799.87	-1,545.87	-1,262.81	-1,792.00	-1,666.84	0.00	144.53	145.95	80.64	-801.95	-1,548.61	-1,265.49	-1,795.12	-1,669.78
Reading, PA	-	Nonattainment	-	100	0.00	42.94	49.62	28.17	-274.14	-530.22	-433.04	-614.72	-571.72	0.00	50.02	50.60	28.22	-274.85	-531.17	-433.97	-615.79	-572.73
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	72.50	83.79	47.56	-462.92	-895.36	-731.25	-1,038.04	-965.43	0.00	84.47	85.45	47.66	-464.12	-896.95	-732.81	-1,039.85	-967.13
Rochester, NY	Subpart 1	-	100	-	0.00	172.39	199.23	113.09	-1,100.67	-2,128.87	-1,738.69	-2,468.12	-2,295.48	0.00	200.84	203.18	113.32	-1,103.54	-2,132.66	-1,742.40	-2,472.43	-2,299.54
Rome, GA	-	Nonattainment	-	100	0.00	15.53	17.95	10.19	-99.17	-191.80	-156.65	-222.37	-206.81	0.00	18.10	18.31	10.21	-99.42	-192.14	-156.98	-222.76	-207.18
Sacramento Metro, CA	Serious	-	50	-	0.00	315.01	362.36	201.23	-2,056.34	-3,970.14	-3,244.07	-4,601.51	-4,280.78	0.00	366.77	369.51	201.62	-2,061.62	-3,977.13	-3,250.92	-4,609.47	-4,288.29
San Diego, CA	Subpart 1	-	100	-	0.00	507.29	586.26	332.77	-3,238.87	-6,264.48	-5,116.31	-7,262.77	-6,754.74	0.00	591.01	597.89	333.46	-3,247.32	-6,275.61	-5,127.23	-7,275.45	-6,766.69
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	908.15	1,040.34	566.36	-6,042.88	-11,649.17	-9,522.70	-13,498.49	-12,560.52	0.00	1,056.81	1,060.78	567.40	-6,058.24	-11,669.50	-9,542.63	-13,521.69	-12,582.36
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	545.06	629.46	356.09	-3,492.19	-6,752.52	-5,515.33	-7,828.22	-7,280.95	0.00	634.95	641.93	356.82	-3,501.27	-6,764.49	-5,527.08	-7,841.87	-7,293.81
Sheboygan, WI	Moderate	-	100	-	0.00	15.13	17.49	9.93	-96.62	-186.88	-152.62	-216.66	-201.50	0.00	17.63	17.84	9.95	-96.87	-187.21	-152.95	-217.03	-201.86
Springfield (Western MA), MA	Moderate	-	100	-	0.00	114.61	132.36	74.87	-734.35	-1,419.94	-1,159.78	-1,646.14	-1,531.06	0.00	133.51	134.98	75.02	-736.26	-1,422.45	-1,162.25	-1,649.01	-1,533.76
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	353.92	399.56	201.93	-2,511.57	-4,817.90	-3,943.74	-5,578.40	-5,194.63	0.00	411.08	407.28	202.21	-2,517.70	-4,826.08	-3,951.75	-5,587.76	-5,203.42
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	11.07	12.30	5.67	-83.96	-160.29	-131.38	-185.45	-172.82	0.00	12.84	12.53	5.68	-84.16	-160.56	-131.64	-185.76	-173.10
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
Ventura Co, CA	Serious	-	50	-	0.00	101.31	116.85	65.72	-652.95	-1,261.94	-1,030.87	-1,462.87	-1,360.70	0.00	118.00	119.16	65.85	-654.65	-1,264.18	-1,033.06	-1,465.41	-1,363.09
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	678.76	784.43	445.26	-4,333.70	-8,382.06	-6,845.77	-9,717.79	-9,038.03	0.00	790.78	799.99	446.18	-4,345.00	-8,396.95	-6,860.38	-9,734.76	-9,054.02
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	19.98	23.09	13.11	-127.55	-246.71	-201.49	-286.02	-266.02	0.00	23.28	23.55	13.13	-127.89	-247.15	-201.92	-286.52	-266.49
York, PA	-	Nonattainment	-	100	0.00	43.79	50.61	28.72	-279.58	-540.75	-441.64	-626.92	-583.07	0.00	51.02	51.61	28.78	-280.31	-541.71	-442.58	-628.02	-584.10

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-19
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Carbon Monoxide 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Diego, CA	Subpart 1	-	100	-	0.00	1,497.92	1,899.06	1,372.35	-8,555.26	-16,917.04	-14,867.34	-21,275.37	-19,108.45	0.00	2,210.82	1,968.65	1,333.74	-8,700.38	-17,107.12	-15,054.35	-21,492.30	-19,313.38
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	2,588.78	3,270.57	2,329.16	-15,265.28	-30,094.20	-26,462.17	-37,824.11	-33,985.35	0.00	3,822.38	3,389.94	2,261.33	-15,519.39	-30,428.05	-26,790.46	-38,205.51	-34,345.30
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	1,623.93	2,058.25	1,485.67	-9,298.77	-18,382.72	-16,156.14	-23,117.50	-20,763.64	0.00	2,396.88	2,133.64	1,443.77	-9,456.26	-18,589.06	-16,359.15	-23,353.01	-20,986.09
Sheboygan, WI	Moderate	-	100	-	0.00	41.57	52.70	38.08	-237.40	-469.42	-412.55	-590.36	-530.23	0.00	61.35	54.63	37.01	-241.42	-474.70	-417.74	-596.38	-535.92
Springfield (Western MA), MA	Moderate	-	100	-	0.00	305.85	387.63	279.76	-1,751.93	-3,463.27	-3,043.81	-4,355.27	-3,911.82	0.00	451.43	401.83	271.86	-1,781.60	-3,502.14	-3,082.05	-4,399.63	-3,953.73
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	934.76	1,173.27	812.55	-5,832.76	-11,439.77	-10,068.37	-14,363.06	-12,914.23	0.00	1,381.22	1,215.77	787.31	-5,926.73	-11,563.89	-10,190.31	-14,505.11	-13,048.08
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	28.31	35.27	23.63	-187.70	-366.22	-322.62	-459.31	-413.27	0.00	41.87	36.54	22.84	-190.62	-370.10	-326.43	-463.76	-417.45
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.03	-0.04	-0.04	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.03	-0.04	-0.04
Ventura Co, CA	Serious	-	50	-	0.00	301.71	382.22	275.35	-1,735.23	-3,428.93	-3,013.83	-4,311.74	-3,872.93	0.00	445.35	396.22	267.55	-1,764.54	-3,467.35	-3,051.63	-4,355.60	-3,914.35
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	1,910.21	2,421.76	1,750.06	-10,909.97	-21,573.22	-18,959.36	-27,131.12	-24,367.79	0.00	2,819.32	2,510.50	1,700.84	-11,095.04	-21,815.62	-19,197.86	-27,407.76	-24,629.11
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	49.50	62.75	45.35	-282.71	-559.02	-491.29	-703.04	-631.43	0.00	73.06	65.05	44.07	-287.50	-565.30	-497.47	-710.21	-638.21
York, PA	-	Nonattainment	-	100	0.00	120.68	153.00	110.57	-689.28	-1,362.97	-1,197.83	-1,714.11	-1,539.53	0.00	178.12	158.61	107.46	-700.97	-1,378.28	-1,212.90	-1,731.59	-1,556.04

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

**Table C-20
Alternative CAFE Standards
Emission Changes ^{a/} by Nonattainment Area**

Carbon Monoxide 2050

Nonattainment Area	Status ^{b/}		General Conformity Threshold ^{c/}		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	1,570.89	2,037.13	1,489.43	-9,534.06	-18,887.84	-16,977.45	-24,225.87	-21,574.09	0.00	2,443.20	2,026.64	1,325.79	-9,888.91	-19,355.51	-17,437.24	-24,761.03	-22,078.76
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	47.66	61.48	43.80	-306.81	-604.60	-543.88	-774.58	-690.28	0.00	74.29	61.06	38.69	-317.90	-619.29	-558.31	-791.41	-706.13
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	0.00	0.00	0.01	0.00	-0.03	-0.05	-0.05	-0.07	-0.06	0.00	0.01	0.01	0.00	-0.03	-0.05	-0.05	-0.07	-0.06
Ventura Co, CA	Serious	-	50	-	0.00	505.95	660.54	498.35	-2,836.40	-5,662.10	-5,083.61	-7,274.20	-6,471.50	0.00	784.78	658.57	447.57	-2,946.25	-5,806.04	-5,225.27	-7,438.59	-6,626.79
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	3,202.69	4,183.57	3,164.21	-17,833.48	-35,623.69	-31,980.84	-45,772.94	-40,718.40	0.00	4,966.59	4,171.78	2,843.81	-18,526.49	-36,531.35	-32,874.17	-46,809.41	-41,697.61
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	82.99	108.41	81.99	-462.11	-923.10	-828.71	-1,186.10	-1,055.12	0.00	128.70	108.10	73.69	-480.07	-946.62	-851.86	-1,212.96	-1,080.50
York, PA	-	Nonattainment	-	100	0.00	202.34	264.31	199.91	-1,126.70	-2,250.66	-2,020.51	-2,891.88	-2,572.54	0.00	313.78	263.57	179.67	-1,170.48	-2,308.00	-2,076.95	-2,957.36	-2,634.40

^{a/} Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

^{b/} Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

^{c/} Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

**Table C-21
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Diesel Particulate Matter 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.21	0.19	0.28	1.42	2.59	2.27	2.95	2.83	0.00	0.21	0.19	0.28	1.42	2.59	2.27	2.95	2.83
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.02	0.02	0.03	0.16	0.28	0.25	0.32	0.31	0.00	0.02	0.02	0.03	0.16	0.28	0.25	0.32	0.31
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.02	0.02	0.03	0.16	0.29	0.25	0.33	0.32	0.00	0.02	0.02	0.03	0.16	0.29	0.25	0.33	0.32
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	1.06	0.97	1.42	7.09	12.93	11.33	14.73	14.15	0.00	1.06	0.97	1.42	7.09	12.93	11.33	14.73	14.15
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.49	0.45	0.66	3.27	5.96	5.23	6.80	6.53	0.00	0.49	0.45	0.66	3.27	5.96	5.23	6.80	6.53
Baton Rouge, LA	Moderate	-	100	-	0.00	-34.04	-50.69	-59.79	-71.02	-96.72	-87.06	-100.44	-103.19	0.00	-34.04	-50.69	-59.79	-71.02	-96.72	-87.06	-100.44	-103.19
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-37.21	-55.38	-65.34	-77.91	-106.28	-95.65	-110.44	-113.41	0.00	-37.21	-55.38	-65.34	-77.91	-106.28	-95.65	-110.44	-113.41
Birmingham, AL	-	Nonattainment	-	100	0.00	-2.01	-3.08	-3.59	-3.42	-4.15	-3.78	-4.10	-4.37	0.00	-2.01	-3.08	-3.59	-3.42	-4.15	-3.78	-4.10	-4.37
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.30	-0.04	0.17	4.53	8.79	7.67	10.17	9.66	0.00	0.30	-0.04	0.17	4.53	8.79	7.67	10.17	9.66
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.10	0.09	0.14	0.69	1.26	1.10	1.44	1.38	0.00	0.10	0.09	0.14	0.69	1.26	1.10	1.44	1.38
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.20	0.18	0.26	1.32	2.40	2.11	2.74	2.63	0.00	0.20	0.18	0.26	1.32	2.40	2.11	2.74	2.63
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-2.58	-3.87	-4.55	-5.19	-6.94	-6.26	-7.15	-7.39	0.00	-2.58	-3.87	-4.55	-5.19	-6.94	-6.26	-7.15	-7.39
Charleston, WV	-	Nonattainment	-	100	0.00	0.05	0.04	0.07	0.33	0.60	0.52	0.68	0.66	0.00	0.05	0.04	0.07	0.33	0.60	0.52	0.68	0.66
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.08	-0.04	0.03	1.45	2.83	2.47	3.28	3.11	0.00	0.08	-0.04	0.03	1.45	2.83	2.47	3.28	3.11
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-0.24	-0.41	-0.46	-0.09	0.15	0.11	0.27	0.19	0.00	-0.24	-0.41	-0.46	-0.09	0.15	0.11	0.27	0.19
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-46.36	-69.62	-81.86	-92.18	-122.45	-110.52	-125.94	-130.31	0.00	-46.36	-69.62	-81.86	-92.18	-122.45	-110.52	-125.94	-130.31
Chico, CA	Subpart 1	-	100	-	0.00	0.04	0.03	0.05	0.25	0.46	0.40	0.53	0.50	0.00	0.04	0.03	0.05	0.25	0.46	0.40	0.53	0.50
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.32	0.30	0.44	2.17	3.96	3.47	4.51	4.33	0.00	0.32	0.30	0.44	2.17	3.96	3.47	4.51	4.33
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.44	0.40	0.59	2.96	5.40	4.73	6.16	5.91	0.00	0.44	0.40	0.59	2.96	5.40	4.73	6.16	5.91
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.27	0.25	0.36	1.81	3.30	2.90	3.77	3.62	0.00	0.27	0.25	0.36	1.81	3.30	2.90	3.77	3.62
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.45	0.05	0.34	5.96	11.48	10.02	13.27	12.61	0.00	0.45	0.05	0.34	5.96	11.48	10.02	13.27	12.61
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.13	0.12	0.17	0.86	1.57	1.38	1.79	1.72	0.00	0.13	0.12	0.17	0.86	1.57	1.38	1.79	1.72
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-20.66	-31.06	-36.51	-40.86	-54.12	-48.86	-55.60	-57.58	0.00	-20.66	-31.06	-36.51	-40.86	-54.12	-48.86	-55.60	-57.58
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-19.49	-29.44	-34.53	-37.37	-48.67	-44.02	-49.66	-51.68	0.00	-19.49	-29.44	-34.53	-37.37	-48.67	-44.02	-49.66	-51.68
Door Co, WI	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.04	0.07	0.06	0.08	0.08	0.00	0.01	0.01	0.01	0.04	0.07	0.06	0.08	0.08
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.05	0.04	0.06	0.34	0.62	0.55	0.71	0.68	0.00	0.05	0.04	0.06	0.34	0.62	0.55	0.71	0.68
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.28	0.26	0.38	1.89	3.45	3.03	3.93	3.78	0.00	0.28	0.26	0.38	1.89	3.45	3.03	3.93	3.78
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.13	0.12	0.18	0.90	1.64	1.44	1.87	1.79	0.00	0.13	0.12	0.18	0.90	1.64	1.44	1.87	1.79
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.13	0.12	0.17	0.86	1.57	1.37	1.79	1.72	0.00	0.13	0.12	0.17	0.86	1.57	1.37	1.79	1.72
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Hickory, NC	-	Nonattainment	-	100	0.00	0.03	0.03	0.04	0.20	0.37	0.32	0.42	0.40	0.00	0.03	0.03	0.04	0.20	0.37	0.32	0.42	0.40

**Table C-21
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Diesel Particulate Matter 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-149.63	-223.07	-263.02	-310.40	-421.47	-379.51	-437.20	-449.54	0.00	-149.63	-223.07	-263.02	-310.40	-421.47	-379.51	-437.20	-449.54
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-19.81	-29.49	-34.79	-41.38	-56.38	-50.75	-58.56	-60.15	0.00	-19.81	-29.49	-34.79	-41.38	-56.38	-50.75	-58.56	-60.15
Imperial Co, CA	Moderate	-	100	-	0.00	0.03	0.03	0.05	0.23	0.41	0.36	0.47	0.45	0.00	0.03	0.03	0.05	0.23	0.41	0.36	0.47	0.45
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.26	0.23	0.34	1.73	3.15	2.76	3.59	3.45	0.00	0.26	0.23	0.34	1.73	3.15	2.76	3.59	3.45
Jamestown, NY	Subpart 1	-	100	-	0.00	0.03	0.02	0.04	0.18	0.32	0.28	0.37	0.35	0.00	0.03	0.02	0.04	0.18	0.32	0.28	0.37	0.35
Jefferson Co, NY	Moderate	-	100	-	0.00	0.02	0.02	0.03	0.14	0.25	0.22	0.29	0.28	0.00	0.02	0.02	0.03	0.14	0.25	0.22	0.29	0.28
Johnstown, PA	-	Nonattainment	-	100	0.00	0.02	0.02	0.03	0.14	0.25	0.22	0.28	0.27	0.00	0.02	0.02	0.03	0.14	0.25	0.22	0.28	0.27
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.51	-0.76	-0.89	-0.98	-1.29	-1.17	-1.32	-1.37	0.00	-0.51	-0.76	-0.89	-0.98	-1.29	-1.17	-1.32	-1.37
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.19	0.17	0.25	1.26	2.30	2.02	2.62	2.52	0.00	0.19	0.17	0.25	1.26	2.30	2.02	2.62	2.52
Lancaster, PA	-	Nonattainment	-	100	0.00	0.07	0.07	0.10	0.50	0.90	0.79	1.03	0.99	0.00	0.07	0.07	0.10	0.50	0.90	0.79	1.03	0.99
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.22	0.19	0.28	1.49	2.74	2.40	3.12	3.00	0.00	0.22	0.19	0.28	1.49	2.74	2.40	3.12	3.00
Libby, MT	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.00	0.00	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.00
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-68.99	-104.02	-122.12	-133.77	-175.31	-158.45	-179.33	-186.30	0.00	-68.99	-104.02	-122.12	-133.77	-175.31	-158.45	-179.33	-186.30
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-71.33	-106.16	-125.26	-149.43	-203.88	-183.49	-211.88	-217.56	0.00	-71.33	-106.16	-125.26	-149.43	-203.88	-183.49	-211.88	-217.56
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.18	0.17	0.25	1.23	2.25	1.97	2.56	2.46	0.00	0.18	0.17	0.25	1.23	2.25	1.97	2.56	2.46
Macon, GA	-	Nonattainment	-	100	0.00	0.04	0.03	0.05	0.24	0.43	0.38	0.49	0.47	0.00	0.04	0.03	0.05	0.24	0.43	0.38	0.49	0.47
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.02	0.02	0.02	0.12	0.22	0.19	0.25	0.24	0.00	0.02	0.02	0.02	0.12	0.22	0.19	0.25	0.24
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.02	0.02	0.02	0.11	0.21	0.18	0.23	0.22	0.00	0.02	0.02	0.02	0.11	0.21	0.18	0.23	0.22
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.05	0.05	0.07	0.35	0.64	0.57	0.73	0.71	0.00	0.05	0.05	0.07	0.35	0.64	0.57	0.73	0.71
Memphis, TN-AR	Moderate	-	100	-	0.00	-7.61	-11.41	-13.42	-15.21	-20.26	-18.28	-20.86	-21.57	0.00	-7.61	-11.41	-13.42	-15.21	-20.26	-18.28	-20.86	-21.57
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.30	0.27	0.40	1.99	3.63	3.18	4.13	3.97	0.00	0.30	0.27	0.40	1.99	3.63	3.18	4.13	3.97
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.02	0.02	0.03	0.13	0.24	0.21	0.28	0.27	0.00	0.02	0.02	0.03	0.13	0.24	0.21	0.28	0.27
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-8.54	-14.22	-16.09	-5.87	0.03	-0.72	3.24	0.91	0.00	-8.54	-14.22	-16.09	-5.87	0.03	-0.72	3.24	0.91
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.02	0.02	0.03	0.17	0.31	0.27	0.35	0.34	0.00	0.02	0.02	0.03	0.17	0.31	0.27	0.35	0.34
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-42.58	-63.96	-75.20	-84.45	-112.05	-101.14	-115.18	-119.22	0.00	-42.58	-63.96	-75.20	-84.45	-112.05	-101.14	-115.18	-119.22
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	0.66	0.59	0.88	4.50	8.22	7.21	9.38	9.00	0.00	0.66	0.59	0.88	4.50	8.22	7.21	9.38	9.00
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-0.75	-1.32	-1.46	0.01	1.07	0.87	1.54	1.26	0.00	-0.75	-1.32	-1.46	0.01	1.07	0.87	1.54	1.26
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.22	0.20	0.29	1.44	2.63	2.31	3.00	2.88	0.00	0.22	0.20	0.29	1.44	2.63	2.31	3.00	2.88
Providence (All RI), RI	Moderate	-	100	-	0.00	0.16	0.15	0.22	1.09	1.98	1.74	2.26	2.17	0.00	0.16	0.15	0.22	1.09	1.98	1.74	2.26	2.17
Reading, PA	-	Nonattainment	-	100	0.00	0.06	0.05	0.08	0.38	0.69	0.60	0.78	0.75	0.00	0.06	0.05	0.08	0.38	0.69	0.60	0.78	0.75
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.09	0.08	0.12	0.60	1.10	0.97	1.26	1.21	0.00	0.09	0.08	0.12	0.60	1.10	0.97	1.26	1.21
Rochester, NY	Subpart 1	-	100	-	0.00	0.23	0.21	0.30	1.51	2.75	2.41	3.13	3.01	0.00	0.23	0.21	0.30	1.51	2.75	2.41	3.13	3.01
Rome, GA	-	Nonattainment	-	100	0.00	0.02	0.02	0.03	0.13	0.25	0.22	0.28	0.27	0.00	0.02	0.02	0.03	0.13	0.25	0.22	0.28	0.27
Sacramento Metro, CA	Serious	-	50	-	0.00	-9.37	-14.16	-16.61	-17.87	-23.21	-20.99	-23.65	-24.64	0.00	-9.37	-14.16	-16.61	-17.87	-23.21	-20.99	-23.65	-24.64
San Diego, CA	Subpart 1	-	100	-	0.00	0.64	0.58	0.86	4.27	7.78	6.82	8.87	8.52	0.00	0.64	0.58	0.86	4.27	7.78	6.82	8.87	8.52

Table C-21
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Diesel Particulate Matter 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-56.91	-85.34	-100.40	-114.13	-152.30	-137.39	-156.92	-162.15	0.00	-56.91	-85.34	-100.40	-114.13	-152.30	-137.39	-156.92	-162.15
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.16	-0.15	0.00	3.50	6.89	6.00	8.00	7.58	0.00	0.16	-0.15	0.00	3.50	6.89	6.00	8.00	7.58
Sheboygan, WI	Moderate	-	100	-	0.00	0.02	0.02	0.03	0.13	0.24	0.21	0.27	0.26	0.00	0.02	0.02	0.03	0.13	0.24	0.21	0.27	0.26
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.15	0.14	0.20	1.01	1.84	1.62	2.10	2.02	0.00	0.15	0.14	0.20	1.01	1.84	1.62	2.10	2.02
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-112.42	-167.50	-197.54	-234.00	-318.26	-286.53	-330.35	-339.52	0.00	-112.42	-167.50	-197.54	-234.00	-318.26	-286.53	-330.35	-339.52
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-0.18	-0.28	-0.32	-0.30	-0.35	-0.32	-0.35	-0.37	0.00	-0.18	-0.28	-0.32	-0.30	-0.35	-0.32	-0.35	-0.37
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.10	0.07	0.11	0.79	1.48	1.29	1.69	1.62	0.00	0.10	0.07	0.11	0.79	1.48	1.29	1.69	1.62
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.87	0.79	1.17	5.82	10.61	9.30	12.10	11.62	0.00	0.87	0.79	1.17	5.82	10.61	9.30	12.10	11.62
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-27.96	-41.60	-49.08	-58.65	-80.07	-72.06	-83.24	-85.45	0.00	-27.96	-41.60	-49.08	-58.65	-80.07	-72.06	-83.24	-85.45
York, PA	-	Nonattainment	-	100	0.00	0.06	0.05	0.08	0.38	0.70	0.61	0.79	0.76	0.00	0.06	0.05	0.08	0.38	0.70	0.61	0.79	0.76

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-22
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Diesel Particulate Matter 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.42	0.37	0.53	3.16	5.46	5.14	6.85	6.38	0.00	0.42	0.37	0.53	3.16	5.47	5.14	6.85	6.38
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.05	0.04	0.06	0.35	0.61	0.57	0.76	0.71	0.00	0.05	0.04	0.06	0.35	0.61	0.57	0.76	0.71
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.05	0.04	0.06	0.37	0.64	0.61	0.81	0.75	0.00	0.05	0.04	0.06	0.37	0.64	0.61	0.81	0.75
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	2.14	1.92	2.73	16.25	28.08	26.39	35.20	32.77	0.00	2.15	1.92	2.73	16.26	28.10	26.41	35.22	32.78
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.97	0.87	1.23	7.34	12.68	11.91	15.89	14.79	0.00	0.97	0.87	1.23	7.34	12.68	11.92	15.90	14.80
Baton Rouge, LA	Moderate	-	100	-	0.00	-85.36	-124.36	-139.45	-169.29	-215.44	-206.90	-234.39	-231.77	0.00	-102.10	-127.21	-140.02	-168.17	-214.05	-205.51	-232.83	-230.26
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-93.29	-135.86	-152.38	-185.72	-236.77	-227.34	-257.86	-254.86	0.00	-111.57	-138.97	-153.00	-184.50	-235.25	-225.83	-256.15	-253.21
Birmingham, AL	-	Nonattainment	-	100	0.00	-5.12	-7.65	-8.49	-8.36	-9.53	-9.24	-9.67	-9.87	0.00	-6.19	-7.83	-8.52	-8.29	-9.44	-9.15	-9.57	-9.77
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.29	-0.51	-0.13	9.91	18.35	17.18	23.58	21.73	0.00	0.03	-0.55	-0.13	9.93	18.39	17.21	23.62	21.77
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.20	0.18	0.26	1.55	2.67	2.51	3.35	3.12	0.00	0.20	0.18	0.26	1.55	2.67	2.51	3.35	3.12
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.38	0.34	0.49	2.90	5.00	4.70	6.27	5.84	0.00	0.38	0.34	0.49	2.90	5.01	4.71	6.28	5.84
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-6.50	-9.51	-10.65	-12.44	-15.55	-14.96	-16.75	-16.64	0.00	-7.79	-9.73	-10.69	-12.35	-15.44	-14.85	-16.62	-16.52
Charleston, WV	-	Nonattainment	-	100	0.00	0.09	0.08	0.12	0.71	1.23	1.15	1.54	1.43	0.00	0.09	0.08	0.12	0.71	1.23	1.15	1.54	1.43
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.06	-0.22	-0.10	3.24	6.05	5.66	7.79	7.17	0.00	-0.03	-0.24	-0.10	3.25	6.06	5.67	7.80	7.18
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-0.66	-1.06	-1.14	-0.31	0.22	0.16	0.62	0.45	0.00	-0.82	-1.09	-1.14	-0.30	0.23	0.18	0.64	0.46
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-116.82	-171.29	-191.56	-220.80	-274.28	-263.92	-294.19	-292.75	0.00	-140.11	-175.26	-192.35	-219.24	-272.33	-261.98	-291.99	-290.63
Chico, CA	Subpart 1	-	100	-	0.00	0.08	0.07	0.10	0.58	1.01	0.95	1.26	1.18	0.00	0.08	0.07	0.10	0.58	1.01	0.95	1.26	1.18
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.64	0.57	0.81	4.84	8.36	7.86	10.48	9.76	0.00	0.64	0.57	0.81	4.84	8.37	7.86	10.49	9.76
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.85	0.77	1.09	6.48	11.19	10.52	14.03	13.06	0.00	0.86	0.77	1.09	6.48	11.20	10.53	14.04	13.07
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.54	0.48	0.68	4.07	7.03	6.60	8.81	8.20	0.00	0.54	0.48	0.68	4.07	7.03	6.61	8.81	8.20
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.60	-0.36	0.19	13.52	24.80	23.22	31.75	29.30	0.00	0.30	-0.41	0.18	13.55	24.84	23.27	31.80	29.34
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.25	0.22	0.31	1.87	3.24	3.04	4.06	3.78	0.00	0.25	0.22	0.31	1.88	3.24	3.05	4.06	3.78
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-52.06	-76.40	-85.41	-97.65	-120.82	-116.30	-129.28	-128.79	0.00	-62.46	-78.17	-85.76	-96.95	-119.95	-115.43	-128.30	-127.84
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-49.29	-72.59	-81.03	-90.04	-109.82	-105.84	-116.49	-116.50	0.00	-59.22	-74.28	-81.36	-89.37	-108.99	-105.01	-115.55	-115.60
Door Co, WI	Subpart 1	-	100	-	0.00	0.01	0.01	0.02	0.09	0.16	0.15	0.19	0.18	0.00	0.01	0.01	0.02	0.09	0.16	0.15	0.19	0.18
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Evansville, IN	-	Nonattainment	-	100	0.00	0.09	0.07	0.11	0.75	1.30	1.22	1.64	1.52	0.00	0.09	0.07	0.11	0.75	1.30	1.22	1.64	1.52
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.55	0.49	0.70	4.15	7.17	6.73	8.98	8.36	0.00	0.55	0.49	0.70	4.15	7.17	6.74	8.99	8.36
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.27	0.24	0.34	2.01	3.48	3.27	4.36	4.06	0.00	0.27	0.24	0.34	2.02	3.48	3.27	4.36	4.06
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.25	0.23	0.32	1.93	3.34	3.14	4.18	3.90	0.00	0.26	0.23	0.32	1.93	3.34	3.14	4.19	3.90
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.03
Hickory, NC	-	Nonattainment	-	100	0.00	0.06	0.05	0.08	0.45	0.78	0.73	0.98	0.91	0.00	0.06	0.05	0.08	0.45	0.78	0.73	0.98	0.91

Table C-22
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Diesel Particulate Matter 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-375.45	-547.45	-613.68	-740.24	-939.31	-902.28	-1,020.24	-1,009.57	0.00	-449.23	-560.00	-616.18	-735.31	-933.18	-896.17	-1,013.33	-1,002.92
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-49.67	-72.35	-81.14	-98.67	-125.66	-120.67	-136.78	-135.22	0.00	-59.41	-74.01	-81.47	-98.02	-124.85	-119.87	-135.87	-134.34
Imperial Co, CA	Moderate	-	100	-	0.00	0.07	0.06	0.09	0.52	0.90	0.84	1.12	1.05	0.00	0.07	0.06	0.09	0.52	0.90	0.84	1.12	1.05
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.51	0.45	0.64	3.88	6.70	6.30	8.40	7.82	0.00	0.51	0.45	0.64	3.88	6.70	6.30	8.41	7.82
Jamestown, NY	Subpart 1	-	100	-	0.00	0.05	0.05	0.07	0.39	0.67	0.63	0.84	0.79	0.00	0.05	0.05	0.07	0.39	0.67	0.63	0.84	0.79
Jefferson Co, NY	Moderate	-	100	-	0.00	0.04	0.04	0.05	0.31	0.53	0.50	0.67	0.62	0.00	0.04	0.04	0.05	0.31	0.53	0.50	0.67	0.62
Johnstown, PA	-	Nonattainment	-	100	0.00	0.04	0.03	0.05	0.29	0.51	0.48	0.64	0.59	0.00	0.04	0.03	0.05	0.29	0.51	0.48	0.64	0.59
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-1.27	-1.87	-2.09	-2.35	-2.88	-2.78	-3.07	-3.07	0.00	-1.53	-1.92	-2.10	-2.33	-2.86	-2.76	-3.05	-3.04
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.38	0.34	0.48	2.86	4.95	4.65	6.20	5.77	0.00	0.38	0.34	0.48	2.87	4.95	4.65	6.21	5.78
Lancaster, PA	-	Nonattainment	-	100	0.00	0.15	0.13	0.19	1.11	1.92	1.81	2.41	2.24	0.00	0.15	0.13	0.19	1.11	1.92	1.81	2.41	2.24
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.45	0.38	0.56	3.54	6.14	5.77	7.70	7.17	0.00	0.44	0.38	0.56	3.54	6.14	5.77	7.71	7.17
Libby, MT	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.02	-0.03	-0.04	-0.01	0.00	0.00	0.01	0.01	0.00	-0.03	-0.03	-0.04	-0.01	0.00	0.00	0.01	0.01
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-174.17	-256.22	-286.14	-320.82	-393.10	-378.69	-418.16	-417.66	0.00	-209.18	-262.18	-287.32	-318.46	-390.16	-375.77	-414.84	-414.47
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-178.83	-260.39	-292.07	-356.12	-454.08	-436.01	-494.59	-488.81	0.00	-213.85	-266.35	-293.25	-353.78	-451.18	-433.12	-491.32	-485.66
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.36	0.32	0.45	2.70	4.67	4.39	5.85	5.45	0.00	0.36	0.32	0.45	2.70	4.67	4.39	5.86	5.45
Macon, GA	-	Nonattainment	-	100	0.00	0.07	0.06	0.09	0.53	0.91	0.85	1.14	1.06	0.00	0.07	0.06	0.09	0.53	0.91	0.85	1.14	1.06
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.03	0.03	0.04	0.26	0.45	0.42	0.56	0.52	0.00	0.03	0.03	0.04	0.26	0.45	0.42	0.56	0.52
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.03	0.03	0.04	0.26	0.45	0.42	0.56	0.52	0.00	0.03	0.03	0.04	0.26	0.45	0.42	0.56	0.52
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.10	0.09	0.13	0.79	1.37	1.29	1.71	1.60	0.00	0.10	0.09	0.13	0.79	1.37	1.29	1.72	1.60
Memphis, TN-AR	Moderate	-	100	-	0.00	-19.16	-28.07	-31.40	-36.42	-45.38	-43.65	-48.76	-48.48	0.00	-22.97	-28.71	-31.53	-36.16	-45.06	-43.33	-48.40	-48.13
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.58	0.52	0.74	4.41	7.61	7.15	9.54	8.88	0.00	0.58	0.52	0.74	4.41	7.62	7.16	9.55	8.89
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.04	0.04	0.05	0.32	0.55	0.51	0.68	0.64	0.00	0.04	0.04	0.05	0.32	0.55	0.51	0.68	0.64
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-22.89	-36.19	-39.23	-17.09	-4.31	-5.49	6.27	1.39	0.00	-28.36	-37.12	-39.41	-16.71	-3.82	-5.00	6.83	1.93
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.05	0.04	0.06	0.36	0.63	0.59	0.79	0.73	0.00	0.04	0.04	0.06	0.36	0.63	0.59	0.79	0.73
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-107.33	-157.41	-176.02	-202.49	-251.30	-241.83	-269.39	-268.14	0.00	-128.73	-161.05	-176.74	-201.06	-249.51	-240.05	-267.37	-266.20
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	1.38	1.21	1.74	10.76	18.63	17.50	23.37	21.74	0.00	1.38	1.21	1.74	10.76	18.64	17.52	23.38	21.76
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-2.09	-3.41	-3.65	-0.45	1.71	1.46	3.29	2.62	0.00	-2.62	-3.50	-3.66	-0.41	1.76	1.51	3.34	2.68
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.43	0.39	0.55	3.26	5.63	5.29	7.06	6.57	0.00	0.43	0.39	0.55	3.26	5.63	5.29	7.06	6.57
Providence (All RI), RI	Moderate	-	100	-	0.00	0.32	0.29	0.41	2.42	4.18	3.93	5.24	4.88	0.00	0.32	0.29	0.41	2.42	4.19	3.94	5.25	4.89
Reading, PA	-	Nonattainment	-	100	0.00	0.11	0.10	0.14	0.83	1.44	1.35	1.80	1.68	0.00	0.11	0.10	0.14	0.83	1.44	1.35	1.80	1.68
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.19	0.17	0.24	1.40	2.43	2.28	3.04	2.83	0.00	0.19	0.17	0.24	1.41	2.43	2.28	3.04	2.83
Rochester, NY	Subpart 1	-	100	-	0.00	0.44	0.39	0.56	3.34	5.77	5.42	7.23	6.73	0.00	0.44	0.40	0.56	3.34	5.77	5.43	7.23	6.73
Rome, GA	-	Nonattainment	-	100	0.00	0.04	0.04	0.05	0.30	0.52	0.49	0.65	0.61	0.00	0.04	0.04	0.05	0.30	0.52	0.49	0.65	0.61
Sacramento Metro, CA	Serious	-	50	-	0.00	-23.66	-34.89	-38.93	-42.71	-51.76	-49.91	-54.68	-54.79	0.00	-28.45	-35.71	-39.09	-42.39	-51.36	-49.51	-54.23	-54.35
San Diego, CA	Subpart 1	-	100	-	0.00	1.30	1.16	1.65	9.83	16.98	15.96	21.28	19.81	0.00	1.30	1.16	1.65	9.83	16.98	15.96	21.29	19.82
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-143.25	-209.83	-234.76	-272.90	-340.39	-327.43	-365.99	-363.80	0.00	-171.73	-214.68	-235.72	-270.99	-338.01	-325.06	-363.31	-361.22

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					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.08	-0.67	-0.37	7.96	14.93	13.96	19.26	17.72	0.00	-0.17	-0.71	-0.38	7.98	14.96	14.00	19.30	17.76
Sheboygan, WI	Moderate	-	100	-	0.00	0.04	0.03	0.05	0.29	0.51	0.48	0.63	0.59	0.00	0.04	0.03	0.05	0.29	0.51	0.48	0.64	0.59
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.29	0.26	0.37	2.23	3.85	3.62	4.82	4.49	0.00	0.29	0.26	0.37	2.23	3.85	3.62	4.82	4.49
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-282.03	-411.02	-460.85	-558.16	-709.58	-681.50	-771.54	-763.11	0.00	-337.38	-420.44	-462.73	-554.47	-704.98	-676.92	-766.36	-758.12
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-0.46	-0.69	-0.76	-0.74	-0.83	-0.81	-0.83	-0.86	0.00	-0.56	-0.70	-0.77	-0.73	-0.82	-0.80	-0.83	-0.85
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.18	0.11	0.20	1.81	3.20	3.01	4.05	3.76	0.00	0.16	0.11	0.19	1.81	3.21	3.01	4.05	3.76
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	1.73	1.55	2.21	13.15	22.71	21.35	28.47	26.50	0.00	1.74	1.56	2.21	13.16	22.73	21.36	28.48	26.52
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-70.08	-102.02	-114.44	-139.77	-178.36	-171.25	-194.35	-192.05	0.00	-83.79	-104.36	-114.91	-138.86	-177.22	-170.12	-193.07	-190.81
York, PA	-	Nonattainment	-	100	0.00	0.11	0.10	0.14	0.85	1.47	1.38	1.84	1.71	0.00	0.11	0.10	0.14	0.85	1.47	1.38	1.84	1.71

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-23
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Diesel Particulate Matter 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.83	0.71	0.97	6.43	10.66	10.49	14.18	13.02	0.00	0.83	0.71	0.98	6.45	10.70	10.52	14.23	13.06
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.10	0.08	0.11	0.75	1.24	1.22	1.65	1.52	0.00	0.10	0.08	0.11	0.75	1.25	1.23	1.66	1.52
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.12	0.10	0.14	0.90	1.50	1.47	1.99	1.83	0.00	0.12	0.10	0.14	0.91	1.50	1.48	2.00	1.84
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	4.40	3.77	5.18	34.22	56.80	55.86	75.55	69.33	0.00	4.44	3.79	5.19	34.33	56.98	56.04	75.78	69.55
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	1.96	1.68	2.30	15.19	25.21	24.80	33.53	30.78	0.00	1.97	1.69	2.31	15.24	25.29	24.88	33.64	30.87
Baton Rouge, LA	Moderate	-	100	-	0.00	-183.46	-263.80	-288.51	-353.85	-434.22	-431.06	-483.65	-469.37	0.00	-262.92	-273.94	-286.30	-341.41	-418.80	-415.69	-466.28	-452.63
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-200.51	-288.17	-315.22	-388.20	-477.21	-473.72	-532.24	-516.31	0.00	-287.25	-299.24	-312.81	-374.63	-460.40	-456.95	-513.29	-498.04
Birmingham, AL	-	Nonattainment	-	100	0.00	-11.09	-16.31	-17.69	-17.79	-19.76	-19.69	-20.30	-20.25	0.00	-16.16	-16.95	-17.54	-16.98	-18.75	-18.69	-19.15	-19.16
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.34	-1.42	-0.77	19.91	35.50	34.85	48.73	44.32	0.00	-0.91	-1.57	-0.72	20.19	35.89	35.23	49.19	44.74
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.41	0.36	0.49	3.22	5.34	5.25	7.10	6.52	0.00	0.42	0.36	0.49	3.23	5.36	5.27	7.12	6.54
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.74	0.63	0.87	5.73	9.51	9.35	12.64	11.60	0.00	0.74	0.64	0.87	5.75	9.54	9.38	12.68	11.64
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-13.99	-20.20	-22.06	-26.10	-31.53	-31.31	-34.69	-33.81	0.00	-20.11	-20.98	-21.89	-25.14	-30.33	-30.12	-33.35	-32.51
Charleston, WV	-	Nonattainment	-	100	0.00	0.17	0.15	0.20	1.34	2.23	2.19	2.96	2.72	0.00	0.17	0.15	0.20	1.35	2.24	2.20	2.97	2.73
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.07	-0.55	-0.33	6.80	12.17	11.94	16.73	15.20	0.00	-0.38	-0.61	-0.32	6.90	12.30	12.08	16.89	15.36
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-1.45	-2.29	-2.42	-0.80	0.16	0.12	1.14	0.79	0.00	-2.23	-2.39	-2.40	-0.67	0.33	0.29	1.33	0.97
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-251.35	-363.71	-396.84	-461.92	-553.66	-550.10	-605.77	-591.43	0.00	-361.89	-377.80	-393.75	-444.51	-532.05	-528.57	-581.39	-567.95
Chico, CA	Subpart 1	-	100	-	0.00	0.17	0.15	0.20	1.32	2.20	2.16	2.92	2.68	0.00	0.17	0.15	0.20	1.33	2.20	2.17	2.93	2.69
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	1.26	1.08	1.48	9.80	16.26	15.99	21.62	19.84	0.00	1.27	1.09	1.49	9.83	16.31	16.04	21.69	19.91
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	1.64	1.41	1.93	12.75	21.15	20.81	28.14	25.82	0.00	1.66	1.41	1.94	12.79	21.22	20.87	28.22	25.90
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	1.11	0.95	1.30	8.62	14.30	14.06	19.02	17.45	0.00	1.12	0.96	1.31	8.64	14.34	14.11	19.08	17.51
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	1.19	-0.97	0.04	29.32	51.51	50.59	70.27	64.02	0.00	-0.25	-1.14	0.10	29.67	51.99	51.07	70.85	64.56
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.47	0.40	0.55	3.63	6.02	5.92	8.00	7.34	0.00	0.47	0.40	0.55	3.64	6.04	5.94	8.03	7.37
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-111.94	-162.18	-176.87	-203.69	-242.92	-241.40	-264.74	-258.82	0.00	-161.32	-168.47	-175.49	-195.90	-233.25	-231.77	-253.83	-248.31
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-106.20	-154.29	-168.09	-189.05	-222.90	-221.60	-240.73	-236.07	0.00	-153.35	-160.29	-166.77	-181.59	-213.63	-212.37	-230.27	-226.00
Door Co, WI	Subpart 1	-	100	-	0.00	0.02	0.02	0.03	0.19	0.31	0.31	0.41	0.38	0.00	0.02	0.02	0.03	0.19	0.31	0.31	0.42	0.38
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.01
Evansville, IN	-	Nonattainment	-	100	0.00	0.17	0.13	0.19	1.48	2.48	2.44	3.31	3.04	0.00	0.16	0.13	0.19	1.49	2.49	2.45	3.33	3.05
Greater Connecticut, CT	Moderate	-	100	-	0.00	1.05	0.90	1.24	8.17	13.56	13.34	18.04	16.56	0.00	1.06	0.91	1.24	8.20	13.61	13.38	18.09	16.61
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.51	0.44	0.60	3.98	6.61	6.50	8.79	8.07	0.00	0.52	0.44	0.60	3.99	6.63	6.52	8.82	8.09
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.52	0.44	0.61	4.01	6.65	6.54	8.85	8.12	0.00	0.52	0.44	0.61	4.02	6.67	6.56	8.88	8.15
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.03	0.05	0.05	0.06	0.06	0.00	0.00	0.00	0.00	0.03	0.05	0.05	0.06	0.06
Hickory, NC	-	Nonattainment	-	100	0.00	0.11	0.10	0.13	0.87	1.45	1.42	1.93	1.77	0.00	0.11	0.10	0.13	0.88	1.45	1.43	1.93	1.77

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Diesel Particulate Matter 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-807.01	-1,161.39	-1,269.78	-1,546.96	-1,892.78	-1,879.22	-2,103.69	-2,043.09	0.00	-1,157.27	-1,206.07	-1,260.03	-1,492.09	-1,824.76	-1,811.43	-2,027.03	-1,969.21
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-106.76	-153.48	-167.88	-206.31	-253.38	-251.53	-282.41	-274.02	0.00	-152.98	-159.38	-166.59	-199.07	-244.42	-242.60	-272.31	-264.28
Imperial Co, CA	Moderate	-	100	-	0.00	0.15	0.13	0.17	1.14	1.89	1.86	2.52	2.31	0.00	0.15	0.13	0.17	1.14	1.90	1.87	2.52	2.32
Indianapolis, IN	-	Nonattainment	-	100	0.00	1.02	0.87	1.20	8.03	13.34	13.12	17.75	16.29	0.00	1.03	0.88	1.21	8.06	13.39	13.17	17.81	16.34
Jamestown, NY	Subpart 1	-	100	-	0.00	0.10	0.08	0.12	0.77	1.28	1.26	1.70	1.56	0.00	0.10	0.09	0.12	0.77	1.28	1.26	1.70	1.56
Jefferson Co, NY	Moderate	-	100	-	0.00	0.08	0.07	0.09	0.62	1.02	1.00	1.36	1.25	0.00	0.08	0.07	0.09	0.62	1.02	1.01	1.36	1.25
Johnstown, PA	-	Nonattainment	-	100	0.00	0.07	0.06	0.08	0.53	0.88	0.86	1.17	1.07	0.00	0.07	0.06	0.08	0.53	0.88	0.87	1.17	1.07
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-2.74	-3.98	-4.33	-4.88	-5.75	-5.72	-6.22	-6.10	0.00	-3.95	-4.13	-4.30	-4.69	-5.52	-5.48	-5.95	-5.84
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.79	0.67	0.92	6.11	10.13	9.97	13.48	12.37	0.00	0.79	0.68	0.93	6.13	10.16	10.00	13.52	12.41
Lancaster, PA	-	Nonattainment	-	100	0.00	0.29	0.25	0.34	2.27	3.76	3.70	5.01	4.59	0.00	0.29	0.25	0.34	2.28	3.78	3.71	5.02	4.61
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.96	0.79	1.10	7.81	13.01	12.80	17.34	15.91	0.00	0.94	0.79	1.11	7.84	13.06	12.84	17.40	15.96
Libby, MT	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.03	0.05	0.05	0.06	0.06	0.00	0.00	0.00	0.00	0.03	0.05	0.05	0.06	0.06
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.05	-0.07	-0.08	-0.03	-0.01	-0.01	0.01	0.00	0.00	-0.07	-0.07	-0.07	-0.03	-0.01	-0.01	0.02	0.01
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-374.73	-544.11	-592.91	-669.82	-791.48	-786.81	-856.31	-839.23	0.00	-540.90	-565.28	-588.25	-643.57	-758.86	-754.30	-819.49	-803.77
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-384.28	-552.30	-604.14	-744.01	-914.61	-907.90	-1,020.07	-989.53	0.00	-550.53	-573.51	-599.52	-718.00	-882.37	-875.78	-983.76	-954.53
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.68	0.58	0.80	5.30	8.79	8.65	11.69	10.73	0.00	0.69	0.59	0.80	5.31	8.82	8.67	11.73	10.76
Macon, GA	-	Nonattainment	-	100	0.00	0.13	0.11	0.15	0.99	1.65	1.62	2.19	2.01	0.00	0.13	0.11	0.15	1.00	1.65	1.63	2.20	2.02
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.06	0.06	0.08	0.50	0.83	0.82	1.11	1.02	0.00	0.07	0.06	0.08	0.50	0.84	0.82	1.11	1.02
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.08	0.07	0.09	0.60	0.99	0.98	1.32	1.21	0.00	0.08	0.07	0.09	0.60	1.00	0.98	1.33	1.22
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.21	0.18	0.24	1.60	2.65	2.61	3.52	3.23	0.00	0.21	0.18	0.24	1.60	2.66	2.61	3.53	3.24
Memphis, TN-AR	Moderate	-	100	-	0.00	-41.25	-59.62	-65.08	-76.50	-92.12	-91.51	-101.14	-98.63	0.00	-59.34	-61.93	-64.57	-73.66	-88.58	-87.99	-97.16	-94.79
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	1.15	0.98	1.35	8.94	14.84	14.60	19.74	18.12	0.00	1.16	0.99	1.36	8.97	14.89	14.65	19.80	18.18
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.10	0.09	0.12	0.77	1.28	1.26	1.70	1.56	0.00	0.10	0.09	0.12	0.77	1.29	1.26	1.71	1.57
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-50.15	-77.88	-82.81	-38.78	-14.26	-15.33	11.78	2.46	0.00	-76.08	-81.15	-82.04	-34.46	-8.80	-9.90	17.99	8.43
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.09	0.07	0.10	0.70	1.17	1.15	1.56	1.43	0.00	0.08	0.07	0.10	0.70	1.17	1.15	1.56	1.43
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-231.07	-334.35	-364.81	-424.69	-509.07	-505.80	-557.01	-543.82	0.00	-332.69	-347.31	-361.97	-408.69	-489.20	-486.00	-534.60	-522.23
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	3.22	2.70	3.75	25.65	42.65	41.95	56.78	52.10	0.00	3.21	2.71	3.76	25.74	42.80	42.09	56.97	52.27
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-4.65	-7.41	-7.81	-1.63	2.22	2.05	5.97	4.66	0.00	-7.19	-7.73	-7.73	-1.20	2.76	2.60	6.59	5.26
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.91	0.78	1.07	7.07	11.73	11.53	15.60	14.31	0.00	0.92	0.78	1.07	7.09	11.76	11.57	15.64	14.36
Providence (All RI), RI	Moderate	-	100	-	0.00	0.64	0.55	0.75	4.97	8.24	8.11	10.96	10.06	0.00	0.64	0.55	0.75	4.98	8.27	8.13	11.00	10.09
Reading, PA	-	Nonattainment	-	100	0.00	0.21	0.18	0.25	1.66	2.75	2.70	3.66	3.36	0.00	0.22	0.18	0.25	1.66	2.76	2.71	3.67	3.37
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.41	0.36	0.49	3.22	5.34	5.26	7.11	6.52	0.00	0.42	0.36	0.49	3.23	5.36	5.27	7.13	6.54
Rochester, NY	Subpart 1	-	100	-	0.00	0.86	0.74	1.01	6.66	11.06	10.88	14.71	13.50	0.00	0.87	0.74	1.01	6.69	11.10	10.91	14.76	13.54
Rome, GA	-	Nonattainment	-	100	0.00	0.08	0.07	0.09	0.60	0.99	0.97	1.31	1.21	0.00	0.08	0.07	0.09	0.60	0.99	0.98	1.32	1.21
Sacramento Metro, CA	Serious	-	50	-	0.00	-50.76	-73.98	-80.51	-87.91	-102.13	-101.59	-108.99	-107.32	0.00	-73.47	-76.88	-79.87	-84.31	-97.65	-97.13	-103.93	-102.45
San Diego, CA	Subpart 1	-	100	-	0.00	2.80	2.40	3.29	21.72	36.04	35.45	47.94	43.99	0.00	2.82	2.41	3.30	21.79	36.15	35.56	48.08	44.13
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-308.02	-445.35	-486.06	-569.76	-685.15	-680.66	-751.52	-733.11	0.00	-443.22	-462.58	-482.29	-548.48	-658.74	-654.35	-721.74	-704.42

**Table C-23
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Diesel Particulate Matter 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.21	-1.46	-0.88	18.09	32.38	31.78	44.51	40.46	0.00	-0.99	-1.60	-0.83	18.36	32.74	32.14	44.94	40.86
Sheboygan, WI	Moderate	-	100	-	0.00	0.08	0.07	0.09	0.60	1.00	0.98	1.33	1.22	0.00	0.08	0.07	0.09	0.60	1.00	0.99	1.33	1.22
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.57	0.49	0.67	4.44	7.38	7.25	9.81	9.00	0.00	0.58	0.49	0.68	4.46	7.40	7.28	9.84	9.03
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-606.29	-872.02	-953.61	-1,167.38	-1,431.34	-1,420.98	-1,593.33	-1,546.61	0.00	-869.06	-905.54	-946.30	-1,126.24	-1,380.35	-1,370.16	-1,535.86	-1,491.24
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-1.00	-1.47	-1.59	-1.59	-1.76	-1.76	-1.81	-1.80	0.00	-1.46	-1.53	-1.58	-1.52	-1.67	-1.67	-1.70	-1.70
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.39	0.23	0.38	4.05	6.87	6.75	9.23	8.44	0.00	0.31	0.22	0.39	4.08	6.91	6.79	9.28	8.49
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	3.56	3.06	4.19	27.70	45.96	45.20	61.13	56.10	0.00	3.60	3.07	4.21	27.78	46.11	45.35	61.32	56.28
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-150.60	-216.40	-236.73	-292.15	-359.47	-356.82	-401.19	-389.09	0.00	-215.72	-224.70	-234.92	-281.97	-346.84	-344.24	-386.97	-375.38
York, PA	-	Nonattainment	-	100	0.00	0.23	0.19	0.26	1.75	2.90	2.86	3.86	3.54	0.00	0.23	0.19	0.27	1.76	2.91	2.87	3.87	3.56

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-24
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Diesel Particulate Matter 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	1.38	1.16	1.56	10.40	17.13	17.03	23.07	21.13	0.00	1.40	1.17	1.57	10.46	17.23	17.13	23.20	21.25
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.16	0.14	0.18	1.21	2.00	1.98	2.69	2.46	0.00	0.16	0.14	0.18	1.22	2.01	2.00	2.70	2.48
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.19	0.16	0.22	1.46	2.41	2.39	3.24	2.97	0.00	0.20	0.16	0.22	1.47	2.42	2.41	3.26	2.99
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	7.35	6.17	8.31	55.41	91.25	90.74	122.91	112.57	0.00	7.44	6.22	8.37	55.72	91.76	91.24	123.58	113.18
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	3.26	2.74	3.69	24.60	40.51	40.28	54.56	49.97	0.00	3.30	2.76	3.72	24.73	40.73	40.50	54.85	50.24
Baton Rouge, LA	Moderate	-	100	-	0.00	-298.84	-428.41	-466.46	-572.61	-697.43	-696.72	-780.14	-754.75	0.00	-437.27	-438.28	-452.70	-537.45	-653.91	-653.33	-731.10	-707.48
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-326.63	-467.99	-509.65	-628.20	-766.50	-765.69	-858.58	-830.29	0.00	-477.73	-478.77	-494.64	-589.84	-719.02	-718.36	-805.09	-778.72
Birmingham, AL	-	Nonattainment	-	100	0.00	-18.04	-26.47	-28.60	-28.79	-31.74	-31.77	-32.59	-32.42	0.00	-26.86	-27.10	-27.72	-26.50	-28.89	-28.93	-29.37	-29.32
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.69	-2.28	-1.29	32.24	57.04	56.67	79.40	72.07	0.00	-1.47	-2.40	-1.03	33.03	58.12	57.75	80.68	73.28
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.69	0.58	0.78	5.21	8.58	8.53	11.56	10.58	0.00	0.70	0.59	0.79	5.24	8.63	8.58	11.62	10.64
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	1.23	1.03	1.39	9.27	15.27	15.19	20.57	18.84	0.00	1.25	1.04	1.40	9.33	15.36	15.27	20.68	18.94
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-22.78	-32.81	-35.67	-42.24	-50.63	-50.60	-55.93	-54.32	0.00	-33.45	-33.57	-34.60	-39.52	-47.26	-47.24	-52.13	-50.66
Charleston, WV	-	Nonattainment	-	100	0.00	0.29	0.24	0.33	2.17	3.58	3.56	4.82	4.42	0.00	0.29	0.24	0.33	2.19	3.60	3.58	4.85	4.44
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.17	-0.89	-0.55	11.01	19.55	19.42	27.26	24.73	0.00	-0.61	-0.93	-0.46	11.29	19.93	19.80	27.71	25.16
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-2.35	-3.71	-3.92	-1.30	0.27	0.23	1.92	1.36	0.00	-3.70	-3.81	-3.78	-0.93	0.73	0.70	2.45	1.87
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-409.28	-590.61	-641.65	-747.47	-889.26	-888.73	-976.18	-950.07	0.00	-601.81	-604.30	-622.46	-698.27	-828.25	-827.91	-907.36	-883.75
Chico, CA	Subpart 1	-	100	-	0.00	0.28	0.24	0.32	2.14	3.53	3.51	4.76	4.36	0.00	0.29	0.24	0.32	2.16	3.55	3.53	4.78	4.38
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	2.11	1.77	2.38	15.86	26.12	25.97	35.18	32.22	0.00	2.13	1.78	2.40	15.95	26.26	26.12	35.37	32.39
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	2.74	2.30	3.10	20.64	33.99	33.80	45.78	41.93	0.00	2.77	2.32	3.12	20.75	34.18	33.98	46.03	42.15
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	1.85	1.56	2.09	13.95	22.97	22.84	30.94	28.34	0.00	1.87	1.57	2.11	14.03	23.10	22.97	31.11	28.49
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	2.13	-1.53	0.01	47.47	82.77	82.24	114.47	104.08	0.00	-0.37	-1.67	0.32	48.45	84.12	83.58	116.08	105.60
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.78	0.65	0.88	5.87	9.67	9.61	13.02	11.92	0.00	0.79	0.66	0.89	5.90	9.72	9.66	13.09	11.99
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-182.26	-263.35	-285.99	-329.60	-390.16	-389.96	-426.53	-415.67	0.00	-268.26	-269.47	-277.41	-307.60	-362.87	-362.75	-395.74	-386.00
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-172.89	-250.53	-271.80	-305.91	-358.00	-357.89	-387.65	-378.94	0.00	-255.01	-256.36	-263.60	-284.84	-331.85	-331.82	-358.13	-350.50
Door Co, WI	Subpart 1	-	100	-	0.00	0.04	0.03	0.05	0.30	0.50	0.50	0.67	0.62	0.00	0.04	0.03	0.05	0.31	0.50	0.50	0.68	0.62
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.02
Evansville, IN	-	Nonattainment	-	100	0.00	0.29	0.21	0.31	2.40	3.99	3.96	5.39	4.93	0.00	0.27	0.22	0.31	2.42	4.01	3.99	5.43	4.97
Greater Connecticut, CT	Moderate	-	100	-	0.00	1.76	1.48	1.99	13.23	21.79	21.67	29.35	26.88	0.00	1.78	1.49	2.00	13.31	21.91	21.79	29.51	27.02
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.86	0.72	0.97	6.45	10.62	10.56	14.30	13.10	0.00	0.87	0.72	0.97	6.48	10.68	10.62	14.38	13.17
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.86	0.72	0.97	6.49	10.69	10.63	14.40	13.18	0.00	0.87	0.73	0.98	6.53	10.75	10.69	14.47	13.25
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.01	0.00	0.01	0.04	0.07	0.07	0.10	0.09	0.00	0.01	0.01	0.01	0.05	0.07	0.07	0.10	0.09
Hickory, NC	-	Nonattainment	-	100	0.00	0.19	0.16	0.21	1.41	2.33	2.31	3.13	2.87	0.00	0.19	0.16	0.21	1.42	2.34	2.33	3.15	2.89

**Table C-24
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Diesel Particulate Matter 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-1,314.51	-1,886.06	-2,052.97	-2,503.33	-3,040.15	-3,037.20	-3,392.91	-3,284.89	0.00	-1,924.62	-1,929.55	-1,992.32	-2,348.23	-2,848.12	-2,845.76	-3,176.51	-3,076.30
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-173.92	-249.26	-271.42	-333.85	-406.98	-406.56	-455.55	-440.63	0.00	-254.43	-255.00	-263.42	-313.41	-381.67	-381.33	-427.04	-413.15
Imperial Co, CA	Moderate	-	100	-	0.00	0.25	0.21	0.28	1.85	3.04	3.02	4.10	3.75	0.00	0.25	0.21	0.28	1.86	3.06	3.04	4.12	3.77
Indianapolis, IN	-	Nonattainment	-	100	0.00	1.71	1.43	1.93	13.01	21.44	21.32	28.89	26.45	0.00	1.72	1.44	1.94	13.08	21.56	21.44	29.05	26.60
Jamestown, NY	Subpart 1	-	100	-	0.00	0.17	0.14	0.19	1.25	2.05	2.04	2.76	2.53	0.00	0.17	0.14	0.19	1.25	2.06	2.05	2.78	2.54
Jefferson Co, NY	Moderate	-	100	-	0.00	0.13	0.11	0.15	1.00	1.64	1.63	2.21	2.02	0.00	0.13	0.11	0.15	1.00	1.65	1.64	2.22	2.03
Johnstown, PA	-	Nonattainment	-	100	0.00	0.11	0.10	0.13	0.86	1.41	1.40	1.90	1.74	0.00	0.11	0.10	0.13	0.86	1.42	1.41	1.91	1.75
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-4.46	-6.46	-7.00	-7.89	-9.24	-9.24	-10.01	-9.79	0.00	-6.57	-6.61	-6.79	-7.35	-8.57	-8.57	-9.25	-9.05
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	1.31	1.10	1.48	9.88	16.28	16.19	21.93	20.08	0.00	1.33	1.11	1.49	9.94	16.37	16.28	22.05	20.19
Lancaster, PA	-	Nonattainment	-	100	0.00	0.49	0.41	0.55	3.67	6.05	6.01	8.14	7.46	0.00	0.49	0.41	0.55	3.69	6.08	6.05	8.19	7.50
Las Vegas, NV	Subpart 1	-	100	-	0.00	1.60	1.29	1.77	12.65	20.91	20.79	28.22	25.83	0.00	1.58	1.30	1.79	12.73	21.04	20.92	28.39	25.98
Libby, MT	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.05	0.07	0.07	0.10	0.09	0.00	0.01	0.01	0.01	0.05	0.08	0.07	0.10	0.09
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.07	-0.12	-0.12	-0.06	-0.02	-0.02	0.02	0.01	0.00	-0.12	-0.12	-0.12	-0.05	-0.01	-0.01	0.04	0.02
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-610.05	-883.53	-958.72	-1,083.87	-1,271.22	-1,270.79	-1,379.08	-1,347.27	0.00	-899.46	-904.08	-929.84	-1,009.67	-1,179.12	-1,178.97	-1,275.12	-1,247.13
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-625.99	-896.93	-976.76	-1,203.99	-1,469.03	-1,467.48	-1,645.52	-1,591.29	0.00	-915.59	-917.58	-947.99	-1,130.46	-1,378.03	-1,376.77	-1,543.00	-1,492.46
Louisville, KY-IN	-	Nonattainment	-	100	0.00	1.14	0.96	1.29	8.58	14.12	14.04	19.02	17.42	0.00	1.15	0.96	1.30	8.62	14.20	14.12	19.13	17.52
Macon, GA	-	Nonattainment	-	100	0.00	0.21	0.18	0.24	1.61	2.65	2.63	3.57	3.27	0.00	0.22	0.18	0.24	1.62	2.66	2.65	3.59	3.28
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.11	0.09	0.12	0.81	1.34	1.33	1.80	1.65	0.00	0.11	0.09	0.12	0.82	1.35	1.34	1.81	1.66
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.13	0.11	0.15	0.97	1.60	1.59	2.15	1.97	0.00	0.13	0.11	0.15	0.97	1.61	1.60	2.16	1.98
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.34	0.29	0.39	2.58	4.26	4.23	5.73	5.25	0.00	0.35	0.29	0.39	2.60	4.28	4.26	5.76	5.28
Memphis, TN-AR	Moderate	-	100	-	0.00	-67.17	-96.82	-105.23	-123.80	-147.95	-147.85	-163.02	-158.47	0.00	-98.68	-99.06	-102.09	-115.75	-137.98	-137.91	-151.77	-147.63
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	1.92	1.61	2.17	14.48	23.85	23.71	32.12	29.42	0.00	1.94	1.62	2.18	14.56	23.98	23.85	32.30	29.58
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.17	0.14	0.19	1.25	2.06	2.05	2.77	2.54	0.00	0.17	0.14	0.19	1.26	2.07	2.06	2.79	2.55
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-81.29	-126.37	-134.01	-62.70	-22.85	-23.77	21.38	6.40	0.00	-126.42	-129.50	-129.38	-50.49	-7.45	-8.42	38.94	23.24
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.14	0.11	0.16	1.13	1.88	1.87	2.53	2.32	0.00	0.14	0.11	0.16	1.14	1.89	1.88	2.55	2.33
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-376.26	-542.95	-589.87	-687.23	-817.65	-817.15	-897.60	-873.58	0.00	-553.24	-555.54	-572.23	-642.00	-761.56	-761.24	-834.34	-812.62
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	5.38	4.42	6.02	41.52	68.53	68.14	92.39	84.59	0.00	5.37	4.45	6.06	41.78	68.94	68.55	92.92	85.08
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-7.52	-12.02	-12.64	-2.63	3.57	3.44	9.93	7.80	0.00	-11.95	-12.33	-12.18	-1.41	5.11	4.98	11.69	9.49
Poughkeepsie, NY	Moderate	-	100	-	0.00	1.52	1.28	1.72	11.44	18.84	18.73	25.37	23.24	0.00	1.54	1.29	1.73	11.50	18.94	18.84	25.51	23.36
Providence (All RI), RI	Moderate	-	100	-	0.00	1.07	0.90	1.21	8.04	13.24	13.17	17.84	16.33	0.00	1.08	0.90	1.21	8.09	13.32	13.24	17.93	16.42
Reading, PA	-	Nonattainment	-	100	0.00	0.36	0.30	0.40	2.68	4.42	4.39	5.95	5.45	0.00	0.36	0.30	0.41	2.70	4.44	4.42	5.98	5.48
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.69	0.58	0.78	5.21	8.59	8.54	11.57	10.59	0.00	0.70	0.59	0.79	5.24	8.63	8.59	11.63	10.65
Rochester, NY	Subpart 1	-	100	-	0.00	1.43	1.20	1.62	10.79	17.77	17.67	23.93	21.92	0.00	1.45	1.21	1.63	10.85	17.87	17.77	24.06	22.04
Rome, GA	-	Nonattainment	-	100	0.00	0.13	0.11	0.14	0.96	1.59	1.58	2.14	1.96	0.00	0.13	0.11	0.15	0.97	1.60	1.59	2.15	1.97
Sacramento Metro, CA	Serious	-	50	-	0.00	-82.62	-120.13	-130.18	-142.26	-164.04	-164.03	-175.39	-172.15	0.00	-122.17	-122.94	-126.23	-132.08	-151.39	-151.42	-161.11	-158.40

**Table C-24
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Diesel Particulate Matter 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Diego, CA	Subpart 1	-	100	-	0.00	4.67	3.92	5.28	35.16	57.90	57.58	77.99	71.43	0.00	4.72	3.95	5.31	35.36	58.23	57.90	78.41	71.81
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-501.59	-723.19	-785.91	-921.97	-1,100.45	-1,099.72	-1,211.22	-1,177.82	0.00	-737.06	-739.94	-762.45	-861.85	-1,025.90	-1,025.41	-1,127.14	-1,096.80
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	0.46	-2.34	-1.45	29.30	52.02	51.68	72.52	65.80	0.00	-1.61	-2.46	-1.21	30.05	53.04	52.70	73.74	66.95
Sheboygan, WI	Moderate	-	100	-	0.00	0.13	0.11	0.15	0.98	1.61	1.60	2.16	1.98	0.00	0.13	0.11	0.15	0.98	1.62	1.61	2.18	1.99
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.96	0.80	1.08	7.20	11.85	11.78	15.96	14.62	0.00	0.97	0.81	1.09	7.24	11.92	11.85	16.05	14.70
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-987.60	-1,416.14	-1,541.78	-1,889.09	-2,299.00	-2,296.68	-2,569.99	-2,486.88	0.00	-1,445.32	-1,448.77	-1,496.29	-1,772.80	-2,155.04	-2,153.17	-2,407.78	-2,330.52
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-1.62	-2.38	-2.58	-2.58	-2.83	-2.83	-2.90	-2.89	0.00	-2.42	-2.44	-2.50	-2.37	-2.58	-2.58	-2.61	-2.61
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.65	0.37	0.61	6.56	11.04	10.97	15.02	13.72	0.00	0.53	0.37	0.63	6.63	11.14	11.08	15.15	13.84
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	5.95	5.00	6.73	44.84	73.84	73.42	99.46	91.09	0.00	6.02	5.04	6.78	45.09	74.25	73.83	100.00	91.58
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-245.34	-351.43	-382.74	-472.77	-577.37	-576.75	-647.19	-625.72	0.00	-358.76	-359.52	-371.47	-443.98	-541.74	-541.23	-607.05	-587.03
York, PA	-	Nonattainment	-	100	0.00	0.38	0.32	0.43	2.83	4.67	4.64	6.28	5.75	0.00	0.38	0.32	0.43	2.85	4.69	4.66	6.32	5.79

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-25
Reference Case Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Formaldehyde 2016

Nonattainment Area	Status b/		General Conformity Threshold c/		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-0.02	0.03	0.10	0.60	1.03	0.78	1.08	1.07	0.00	-0.02	0.03	0.10	0.60	1.03	0.78	1.08	1.07
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.07	0.11	0.09	0.12	0.12	0.00	0.00	0.00	0.01	0.07	0.11	0.09	0.12	0.12
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.07	0.12	0.09	0.12	0.12	0.00	0.00	0.00	0.01	0.07	0.12	0.09	0.12	0.12
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	-0.09	0.17	0.51	3.02	5.17	3.90	5.41	5.33	0.00	-0.09	0.17	0.51	3.02	5.17	3.90	5.41	5.33
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	-0.04	0.08	0.24	1.39	2.38	1.80	2.50	2.46	0.00	-0.04	0.08	0.24	1.39	2.38	1.80	2.50	2.46
Baton Rouge, LA	Moderate	-	100	-	0.00	-0.63	-0.90	-1.02	-0.83	-0.96	-0.96	-0.98	-1.06	0.00	-0.63	-0.90	-1.02	-0.83	-0.96	-0.96	-0.98	-1.06
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-2.07	-3.06	-3.55	-3.69	-4.77	-4.39	-4.89	-5.13	0.00	-2.07	-3.06	-3.55	-3.69	-4.77	-4.39	-4.89	-5.13
Birmingham, AL	-	Nonattainment	-	100	0.00	-0.01	0.03	0.08	0.49	0.85	0.64	0.89	0.87	0.00	-0.01	0.03	0.08	0.49	0.85	0.64	0.89	0.87
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	-0.07	0.14	0.41	2.42	4.15	3.13	4.34	4.27	0.00	-0.07	0.14	0.41	2.42	4.15	3.13	4.34	4.27
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	-0.01	0.02	0.05	0.29	0.50	0.38	0.53	0.52	0.00	-0.01	0.02	0.05	0.29	0.50	0.38	0.53	0.52
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	-0.02	0.03	0.10	0.56	0.96	0.72	1.01	0.99	0.00	-0.02	0.03	0.10	0.56	0.96	0.72	1.01	0.99
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.00	0.01	0.02	0.15	0.25	0.19	0.26	0.26	0.00	0.00	0.01	0.02	0.15	0.25	0.19	0.26	0.26
Charleston, WV	-	Nonattainment	-	100	0.00	0.00	0.01	0.02	0.14	0.24	0.18	0.25	0.25	0.00	0.00	0.01	0.02	0.14	0.24	0.18	0.25	0.25
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	-0.02	0.04	0.14	0.79	1.36	1.02	1.42	1.40	0.00	-0.02	0.04	0.14	0.79	1.36	1.02	1.42	1.40
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-0.01	0.01	0.04	0.26	0.44	0.34	0.47	0.46	0.00	-0.01	0.01	0.04	0.26	0.44	0.34	0.47	0.46
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-0.11	0.16	0.53	3.25	5.58	4.20	5.84	5.75	0.00	-0.11	0.16	0.53	3.25	5.58	4.20	5.84	5.75
Chico, CA	Subpart 1	-	100	-	0.00	0.00	0.01	0.02	0.11	0.18	0.14	0.19	0.19	0.00	0.00	0.01	0.02	0.11	0.18	0.14	0.19	0.19
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	-0.03	0.05	0.16	0.92	1.58	1.19	1.66	1.63	0.00	-0.03	0.05	0.16	0.92	1.58	1.19	1.66	1.63
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	-0.04	0.07	0.22	1.26	2.16	1.63	2.26	2.23	0.00	-0.04	0.07	0.22	1.26	2.16	1.63	2.26	2.23
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	-0.02	0.04	0.13	0.77	1.32	1.00	1.38	1.36	0.00	-0.02	0.04	0.13	0.77	1.32	1.00	1.38	1.36
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	-0.09	0.18	0.53	3.11	5.32	4.02	5.58	5.49	0.00	-0.09	0.18	0.53	3.11	5.32	4.02	5.58	5.49
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	-0.01	0.02	0.06	0.37	0.63	0.47	0.66	0.65	0.00	-0.01	0.02	0.06	0.37	0.63	0.47	0.66	0.65
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-0.05	0.09	0.27	1.60	2.75	2.07	2.88	2.83	0.00	-0.05	0.09	0.27	1.60	2.75	2.07	2.88	2.83
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-0.06	0.13	0.38	2.24	3.83	2.89	4.01	3.95	0.00	-0.06	0.13	0.38	2.24	3.83	2.89	4.01	3.95
Door Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.03	0.03
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.00	0.01	0.03	0.15	0.25	0.19	0.27	0.26	0.00	0.00	0.01	0.03	0.15	0.25	0.19	0.27	0.26
Greater Connecticut, CT	Moderate	-	100	-	0.00	-0.02	0.05	0.14	0.81	1.38	1.04	1.44	1.42	0.00	-0.02	0.05	0.14	0.81	1.38	1.04	1.44	1.42
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	-0.01	0.02	0.07	0.38	0.65	0.49	0.69	0.68	0.00	-0.01	0.02	0.07	0.38	0.65	0.49	0.69	0.68
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	-0.01	0.02	0.06	0.37	0.63	0.47	0.66	0.65	0.00	-0.01	0.02	0.06	0.37	0.63	0.47	0.66	0.65
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	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
Hickory, NC	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.09	0.15	0.11	0.15	0.15	0.00	0.00	0.00	0.01	0.09	0.15	0.11	0.15	0.15

**Table C-25
Reference Case Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Formaldehyde 2016

Nonattainment Area	Status b/		General Conformity Threshold c/		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-4.45	-6.34	-7.15	-5.63	-6.38	-6.48	-6.46	-7.02	0.00	-4.45	-6.34	-7.15	-5.63	-6.38	-6.48	-6.46	-7.02
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-0.01	0.00	0.02	0.15	0.26	0.20	0.28	0.27	0.00	-0.01	0.00	0.02	0.15	0.26	0.20	0.28	0.27
Imperial Co, CA	Moderate	-	100	-	0.00	0.00	0.01	0.02	0.10	0.16	0.12	0.17	0.17	0.00	0.00	0.01	0.02	0.10	0.16	0.12	0.17	0.17
Indianapolis, IN	-	Nonattainment	-	100	0.00	-0.02	0.04	0.13	0.74	1.26	0.95	1.32	1.30	0.00	-0.02	0.04	0.13	0.74	1.26	0.95	1.32	1.30
Jamestown, NY	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.08	0.13	0.10	0.14	0.13	0.00	0.00	0.00	0.01	0.08	0.13	0.10	0.14	0.13
Jefferson Co, NY	Moderate	-	100	-	0.00	0.00	0.00	0.01	0.06	0.10	0.08	0.11	0.10	0.00	0.00	0.00	0.01	0.06	0.10	0.08	0.11	0.10
Johnstown, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.06	0.10	0.08	0.10	0.10	0.00	0.00	0.00	0.01	0.06	0.10	0.08	0.10	0.10
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.03	-0.04	-0.04	0.00	0.01	0.00	0.02	0.01	0.00	-0.03	-0.04	-0.04	0.00	0.01	0.00	0.02	0.01
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-0.02	0.03	0.09	0.54	0.92	0.69	0.96	0.95	0.00	-0.02	0.03	0.09	0.54	0.92	0.69	0.96	0.95
Lancaster, PA	-	Nonattainment	-	100	0.00	-0.01	0.01	0.04	0.21	0.36	0.27	0.38	0.37	0.00	-0.01	0.01	0.04	0.21	0.36	0.27	0.38	0.37
Las Vegas, NV	Subpart 1	-	100	-	0.00	-0.02	0.04	0.11	0.65	1.11	0.84	1.16	1.14	0.00	-0.02	0.04	0.11	0.65	1.11	0.84	1.16	1.14
Libby, MT	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-0.23	0.35	1.14	6.94	11.91	8.97	12.47	12.27	0.00	-0.23	0.35	1.14	6.94	11.91	8.97	12.47	12.27
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-0.04	-0.03	0.00	0.27	0.48	0.35	0.51	0.50	0.00	-0.04	-0.03	0.00	0.27	0.48	0.35	0.51	0.50
Louisville, KY-IN	-	Nonattainment	-	100	0.00	-0.01	0.03	0.09	0.52	0.90	0.68	0.94	0.93	0.00	-0.01	0.03	0.09	0.52	0.90	0.68	0.94	0.93
Macon, GA	-	Nonattainment	-	100	0.00	0.00	0.01	0.02	0.10	0.17	0.13	0.18	0.18	0.00	0.00	0.01	0.02	0.10	0.17	0.13	0.18	0.18
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.05	0.09	0.06	0.09	0.09	0.00	0.00	0.00	0.01	0.05	0.09	0.06	0.09	0.09
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.05	0.08	0.06	0.09	0.08	0.00	0.00	0.00	0.01	0.05	0.08	0.06	0.09	0.08
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.00	0.01	0.03	0.15	0.26	0.19	0.27	0.27	0.00	0.00	0.01	0.03	0.15	0.26	0.19	0.27	0.27
Memphis, TN-AR	Moderate	-	100	-	0.00	-0.02	0.02	0.07	0.48	0.82	0.62	0.86	0.85	0.00	-0.02	0.02	0.07	0.48	0.82	0.62	0.86	0.85
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	-0.02	0.05	0.14	0.85	1.45	1.09	1.52	1.49	0.00	-0.02	0.05	0.14	0.85	1.45	1.09	1.52	1.49
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.06	0.10	0.07	0.10	0.10	0.00	0.00	0.00	0.01	0.06	0.10	0.07	0.10	0.10
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-0.21	0.43	1.28	7.51	12.86	9.70	13.47	13.26	0.00	-0.21	0.43	1.28	7.51	12.86	9.70	13.47	13.26
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.07	0.12	0.09	0.13	0.13	0.00	0.00	0.00	0.01	0.07	0.12	0.09	0.13	0.13
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-0.88	-1.00	-0.84	1.65	3.42	2.28	3.62	3.45	0.00	-0.88	-1.00	-0.84	1.65	3.42	2.28	3.62	3.45
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	-0.06	0.11	0.33	1.93	3.31	2.50	3.47	3.41	0.00	-0.06	0.11	0.33	1.93	3.31	2.50	3.47	3.41
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-0.03	0.06	0.17	0.99	1.69	1.28	1.77	1.74	0.00	-0.03	0.06	0.17	0.99	1.69	1.28	1.77	1.74
Poughkeepsie, NY	Moderate	-	100	-	0.00	-0.02	0.03	0.10	0.61	1.05	0.79	1.10	1.09	0.00	-0.02	0.03	0.10	0.61	1.05	0.79	1.10	1.09
Providence (All RI), RI	Moderate	-	100	-	0.00	-0.01	0.03	0.08	0.46	0.79	0.60	0.83	0.82	0.00	-0.01	0.03	0.08	0.46	0.79	0.60	0.83	0.82
Reading, PA	-	Nonattainment	-	100	0.00	0.00	0.01	0.03	0.16	0.27	0.21	0.29	0.28	0.00	0.00	0.01	0.03	0.16	0.27	0.21	0.29	0.28
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	-0.01	0.01	0.04	0.26	0.44	0.33	0.46	0.45	0.00	-0.01	0.01	0.04	0.26	0.44	0.33	0.46	0.45
Rochester, NY	Subpart 1	-	100	-	0.00	-0.02	0.04	0.11	0.64	1.10	0.83	1.15	1.13	0.00	-0.02	0.04	0.11	0.64	1.10	0.83	1.15	1.13
Rome, GA	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.06	0.10	0.07	0.10	0.10	0.00	0.00	0.00	0.01	0.06	0.10	0.07	0.10	0.10
Sacramento Metro, CA	Serious	-	50	-	0.00	-0.06	0.03	0.15	1.09	1.88	1.41	1.97	1.94	0.00	-0.06	0.03	0.15	1.09	1.88	1.41	1.97	1.94
San Diego, CA	Subpart 1	-	100	-	0.00	-0.05	0.10	0.31	1.82	3.11	2.35	3.26	3.21	0.00	-0.05	0.10	0.31	1.82	3.11	2.35	3.26	3.21
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-1.09	-1.28	-1.14	1.56	3.41	2.19	3.62	3.42	0.00	-1.09	-1.28	-1.14	1.56	3.41	2.19	3.62	3.42
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	-0.08	0.07	0.28	1.91	3.29	2.47	3.44	3.38	0.00	-0.08	0.07	0.28	1.91	3.29	2.47	3.44	3.38

Table C-25
Reference Case Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Formaldehyde 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.00	0.01	0.06	0.10	0.07	0.10	0.10	0.00	0.00	0.00	0.01	0.06	0.10	0.07	0.10	0.10
Springfield (Western MA), MA	Moderate	-	100	-	0.00	-0.01	0.02	0.07	0.43	0.74	0.56	0.77	0.76	0.00	-0.01	0.02	0.07	0.43	0.74	0.56	0.77	0.76
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-0.04	0.08	0.25	1.45	2.48	1.87	2.60	2.56	0.00	-0.04	0.08	0.25	1.45	2.48	1.87	2.60	2.56
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.05	0.08	0.06	0.09	0.09	0.00	0.00	0.00	0.01	0.05	0.08	0.06	0.09	0.09
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	-0.01	0.02	0.06	0.37	0.63	0.47	0.66	0.65	0.00	-0.01	0.02	0.06	0.37	0.63	0.47	0.66	0.65
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	-0.07	0.14	0.42	2.48	4.24	3.20	4.44	4.37	0.00	-0.07	0.14	0.42	2.48	4.24	3.20	4.44	4.37
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.08	0.13	0.10	0.14	0.14	0.00	0.00	0.00	0.01	0.08	0.13	0.10	0.14	0.14
York, PA	-	Nonattainment	-	100	0.00	0.00	0.01	0.03	0.16	0.28	0.21	0.29	0.29	0.00	0.00	0.01	0.03	0.16	0.28	0.21	0.29	0.29

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-26
Reference Case Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Formaldehyde 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.01	0.11	0.21	1.14	2.00	1.67	2.27	2.11	0.00	0.02	0.11	0.21	1.14	2.00	1.67	2.27	2.11
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.00	0.01	0.02	0.13	0.22	0.19	0.25	0.23	0.00	0.00	0.01	0.02	0.13	0.22	0.19	0.25	0.23
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.00	0.01	0.02	0.13	0.24	0.20	0.27	0.25	0.00	0.00	0.01	0.02	0.13	0.24	0.20	0.27	0.25
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	0.06	0.56	1.09	5.86	10.30	8.60	11.68	10.85	0.00	0.10	0.57	1.09	5.86	10.30	8.61	11.68	10.85
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	0.03	0.25	0.49	2.65	4.65	3.88	5.27	4.90	0.00	0.04	0.26	0.49	2.65	4.65	3.88	5.27	4.90
Baton Rouge, LA	Moderate	-	100	-	0.00	-1.55	-2.19	-2.40	-2.18	-2.32	-2.40	-2.42	-2.52	0.00	-1.85	-2.25	-2.41	-2.16	-2.30	-2.38	-2.40	-2.50
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-5.18	-7.50	-8.34	-9.04	-10.87	-10.61	-11.62	-11.71	0.00	-6.21	-7.68	-8.37	-8.98	-10.80	-10.54	-11.54	-11.63
Birmingham, AL	-	Nonattainment	-	100	0.00	0.01	0.09	0.17	0.92	1.62	1.35	1.83	1.71	0.00	0.02	0.09	0.17	0.92	1.62	1.35	1.83	1.71
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	0.05	0.44	0.85	4.57	8.02	6.70	9.09	8.45	0.00	0.08	0.44	0.85	4.57	8.02	6.70	9.09	8.45
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.01	0.05	0.10	0.56	0.98	0.82	1.11	1.03	0.00	0.01	0.05	0.10	0.56	0.98	0.82	1.11	1.03
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.01	0.10	0.19	1.04	1.84	1.53	2.08	1.93	0.00	0.02	0.10	0.19	1.04	1.84	1.53	2.08	1.93
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	0.00	0.03	0.05	0.27	0.47	0.39	0.54	0.50	0.00	0.00	0.03	0.05	0.27	0.47	0.39	0.54	0.50
Charleston, WV	-	Nonattainment	-	100	0.00	0.00	0.02	0.05	0.26	0.45	0.38	0.51	0.47	0.00	0.00	0.02	0.05	0.26	0.45	0.38	0.51	0.47
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.02	0.15	0.28	1.53	2.68	2.24	3.04	2.83	0.00	0.03	0.15	0.28	1.53	2.68	2.24	3.04	2.83
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.01	0.05	0.09	0.49	0.86	0.72	0.98	0.91	0.00	0.01	0.05	0.09	0.49	0.86	0.72	0.98	0.91
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	0.02	0.52	1.07	6.12	10.80	9.00	12.24	11.37	0.00	0.04	0.53	1.07	6.12	10.80	9.01	12.25	11.38
Chico, CA	Subpart 1	-	100	-	0.00	0.00	0.02	0.04	0.21	0.37	0.31	0.42	0.39	0.00	0.00	0.02	0.04	0.21	0.37	0.31	0.42	0.39
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.02	0.17	0.32	1.74	3.06	2.56	3.47	3.23	0.00	0.03	0.17	0.32	1.74	3.07	2.56	3.47	3.23
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.02	0.22	0.43	2.34	4.11	3.43	4.65	4.32	0.00	0.04	0.23	0.43	2.34	4.11	3.43	4.65	4.33
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.02	0.14	0.27	1.47	2.58	2.15	2.92	2.72	0.00	0.02	0.14	0.27	1.47	2.58	2.15	2.92	2.72
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	0.06	0.58	1.12	6.03	10.60	8.85	12.01	11.16	0.00	0.10	0.58	1.12	6.03	10.60	8.85	12.01	11.16
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.01	0.06	0.13	0.68	1.19	0.99	1.35	1.25	0.00	0.01	0.07	0.13	0.68	1.19	0.99	1.35	1.25
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	0.03	0.30	0.58	3.13	5.50	4.59	6.23	5.79	0.00	0.05	0.30	0.58	3.13	5.50	4.59	6.23	5.79
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	0.04	0.40	0.77	4.15	7.29	6.09	8.27	7.68	0.00	0.07	0.40	0.77	4.15	7.30	6.09	8.27	7.69
Door Co, WI	Subpart 1	-	100	-	0.00	0.00	0.00	0.01	0.03	0.06	0.05	0.06	0.06	0.00	0.00	0.00	0.01	0.03	0.06	0.05	0.06	0.06
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.00	0.03	0.05	0.28	0.49	0.41	0.55	0.51	0.00	0.00	0.03	0.05	0.28	0.49	0.41	0.55	0.51
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.02	0.14	0.28	1.50	2.63	2.20	2.98	2.77	0.00	0.03	0.14	0.28	1.50	2.63	2.20	2.98	2.77
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.01	0.07	0.13	0.73	1.28	1.07	1.45	1.34	0.00	0.01	0.07	0.13	0.73	1.28	1.07	1.45	1.34
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.01	0.07	0.13	0.70	1.22	1.02	1.39	1.29	0.00	0.01	0.07	0.13	0.70	1.22	1.02	1.39	1.29
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Hickory, NC	-	Nonattainment	-	100	0.00	0.00	0.02	0.03	0.16	0.29	0.24	0.32	0.30	0.00	0.00	0.02	0.03	0.16	0.29	0.24	0.32	0.30

Table C-26
Reference Case Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Formaldehyde 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sheboygan, WI	Moderate	-	100	-	0.00	0.00	0.01	0.02	0.11	0.19	0.16	0.21	0.20	0.00	0.00	0.01	0.02	0.11	0.19	0.16	0.21	0.20
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.01	0.08	0.15	0.80	1.41	1.18	1.60	1.49	0.00	0.01	0.08	0.15	0.80	1.41	1.18	1.60	1.49
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.03	0.26	0.50	2.70	4.74	3.96	5.37	4.99	0.00	0.05	0.26	0.50	2.70	4.74	3.96	5.37	4.99
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.00	0.01	0.02	0.09	0.16	0.13	0.18	0.17	0.00	0.00	0.01	0.02	0.09	0.16	0.13	0.18	0.17
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.01	0.07	0.13	0.71	1.25	1.05	1.42	1.32	0.00	0.01	0.07	0.13	0.71	1.25	1.05	1.42	1.32
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.05	0.46	0.88	4.74	8.33	6.96	9.44	8.78	0.00	0.08	0.46	0.88	4.74	8.33	6.96	9.44	8.78
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.00	0.01	0.03	0.14	0.25	0.20	0.28	0.26	0.00	0.00	0.01	0.03	0.14	0.25	0.20	0.28	0.26
York, PA	-	Nonattainment	-	100	0.00	0.00	0.03	0.06	0.31	0.54	0.45	0.61	0.57	0.00	0.01	0.03	0.06	0.31	0.54	0.45	0.61	0.57

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-27
Reference Case Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Formaldehyde 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sheboygan, WI	Moderate	-	100	-	0.00	0.01	0.03	0.04	0.18	0.30	0.27	0.36	0.33	0.00	0.02	0.03	0.04	0.18	0.30	0.27	0.36	0.33
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.11	0.23	0.33	1.31	2.24	1.99	2.64	2.41	0.00	0.16	0.24	0.33	1.31	2.24	1.99	2.64	2.40
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.35	0.76	1.08	4.29	7.33	6.52	8.65	7.87	0.00	0.51	0.78	1.08	4.28	7.33	6.51	8.65	7.87
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.01	0.02	0.03	0.14	0.23	0.21	0.28	0.25	0.00	0.02	0.02	0.03	0.14	0.23	0.21	0.28	0.25
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.11	0.23	0.33	1.30	2.22	1.97	2.61	2.38	0.00	0.15	0.24	0.33	1.29	2.22	1.97	2.61	2.38
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	0.67	1.45	2.06	8.17	13.96	12.40	16.46	14.99	0.00	0.97	1.48	2.05	8.15	13.95	12.39	16.46	14.98
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.02	0.04	0.05	0.21	0.36	0.32	0.43	0.39	0.00	0.03	0.04	0.05	0.21	0.36	0.32	0.43	0.39
York, PA	-	Nonattainment	-	100	0.00	0.04	0.09	0.13	0.52	0.88	0.78	1.04	0.95	0.00	0.06	0.09	0.13	0.51	0.88	0.78	1.04	0.95

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-28
Reference Case Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Formaldehyde 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sheboygan, WI	Moderate	-	100	-	0.00	0.03	0.06	0.07	0.27	0.46	0.41	0.54	0.49	0.00	0.04	0.06	0.07	0.27	0.45	0.41	0.54	0.49
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.21	0.41	0.55	2.00	3.37	3.04	4.00	3.64	0.00	0.31	0.41	0.53	1.98	3.34	3.01	3.98	3.61
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	0.70	1.33	1.80	6.54	11.02	9.94	13.11	11.91	0.00	1.03	1.34	1.75	6.47	10.95	9.87	13.04	11.83
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	0.02	0.04	0.06	0.21	0.35	0.32	0.42	0.38	0.00	0.03	0.04	0.06	0.21	0.35	0.31	0.41	0.38
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.21	0.40	0.54	1.98	3.33	3.00	3.96	3.60	0.00	0.31	0.40	0.53	1.96	3.31	2.98	3.94	3.58
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	1.32	2.54	3.42	12.45	20.97	18.91	24.94	22.66	0.00	1.96	2.54	3.32	12.32	20.84	18.77	24.81	22.52
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	0.03	0.07	0.09	0.32	0.54	0.49	0.65	0.59	0.00	0.05	0.07	0.09	0.32	0.54	0.49	0.64	0.58
York, PA	-	Nonattainment	-	100	0.00	0.08	0.16	0.22	0.79	1.32	1.19	1.58	1.43	0.00	0.12	0.16	0.21	0.78	1.32	1.19	1.57	1.42

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-29
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Nitrogen Oxides 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	4.92	5.56	3.72	-19.25	-36.54	-27.04	-39.10	-37.77	0.00	4.92	5.56	3.72	-19.25	-36.54	-27.04	-39.10	-37.77
Poughkeepsie, NY	Moderate	-	100	-	0.00	3.39	3.94	2.87	-11.50	-22.16	-16.29	-23.76	-22.88	0.00	3.39	3.94	2.87	-11.50	-22.16	-16.29	-23.76	-22.88
Providence (All RI), RI	Moderate	-	100	-	0.00	2.11	2.31	1.40	-9.33	-17.50	-13.02	-18.70	-18.11	0.00	2.11	2.31	1.40	-9.33	-17.50	-13.02	-18.70	-18.11
Reading, PA	-	Nonattainment	-	100	0.00	0.88	1.03	0.75	-3.00	-5.78	-4.25	-6.19	-5.97	0.00	0.88	1.03	0.75	-3.00	-5.78	-4.25	-6.19	-5.97
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	1.42	1.65	1.20	-4.81	-9.27	-6.82	-9.94	-9.57	0.00	1.42	1.65	1.20	-4.81	-9.27	-6.82	-9.94	-9.57
Rochester, NY	Subpart 1	-	100	-	0.00	3.54	4.12	3.00	-12.00	-23.14	-17.01	-24.81	-23.89	0.00	3.54	4.12	3.00	-12.00	-23.14	-17.01	-24.81	-23.89
Rome, GA	-	Nonattainment	-	100	0.00	0.32	0.37	0.27	-1.07	-2.07	-1.52	-2.22	-2.14	0.00	0.32	0.37	0.27	-1.07	-2.07	-1.52	-2.22	-2.14
Sacramento Metro, CA	Serious	-	50	-	0.00	-11.77	-19.34	-25.36	-48.24	-73.27	-60.22	-75.92	-77.31	0.00	-11.77	-19.34	-25.36	-48.24	-73.27	-60.22	-75.92	-77.31
San Diego, CA	Subpart 1	-	100	-	0.00	9.93	11.52	8.33	-34.12	-65.69	-48.31	-70.41	-67.83	0.00	9.93	11.52	8.33	-34.12	-65.69	-48.31	-70.41	-67.83
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-176.19	-266.03	-315.74	-356.46	-473.79	-417.18	-479.51	-507.21	0.00	-176.19	-266.03	-315.74	-356.46	-473.79	-417.18	-479.51	-507.21
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	6.64	6.42	2.06	-42.91	-78.16	-58.92	-83.18	-81.08	0.00	6.64	6.42	2.06	-42.91	-78.16	-58.92	-83.18	-81.08
Sheboygan, WI	Moderate	-	100	-	0.00	0.31	0.36	0.26	-1.05	-2.03	-1.49	-2.17	-2.09	0.00	0.31	0.36	0.26	-1.05	-2.03	-1.49	-2.17	-2.09
Springfield (Western MA), MA	Moderate	-	100	-	0.00	2.21	2.52	1.73	-8.30	-15.82	-11.69	-16.94	-16.35	0.00	2.21	2.52	1.73	-8.30	-15.82	-11.69	-16.94	-16.35
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-101.86	-152.88	-180.03	-191.72	-249.43	-222.15	-251.40	-267.69	0.00	-101.86	-152.88	-180.03	-191.72	-249.43	-222.15	-251.40	-267.69
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-3.72	-5.58	-6.56	-6.91	-8.95	-7.99	-9.01	-9.61	0.00	-3.72	-5.58	-6.56	-6.91	-8.95	-7.99	-9.01	-9.61
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	1.84	2.08	1.40	-7.14	-13.56	-10.03	-14.51	-14.02	0.00	1.84	2.08	1.40	-7.14	-13.56	-10.03	-14.51	-14.02
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	13.67	15.90	11.58	-46.34	-89.35	-65.67	-95.79	-92.25	0.00	13.67	15.90	11.58	-46.34	-89.35	-65.67	-95.79	-92.25
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-35.04	-51.86	-59.95	-54.58	-66.43	-61.36	-66.05	-71.87	0.00	-35.04	-51.86	-59.95	-54.58	-66.43	-61.36	-66.05	-71.87
York, PA	-	Nonattainment	-	100	0.00	0.90	1.04	0.76	-3.04	-5.86	-4.31	-6.28	-6.05	0.00	0.90	1.04	0.76	-3.04	-5.86	-4.31	-6.28	-6.05

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc3.html>. Accessed August 5, 2009.

Table C-30
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Nitrogen Oxides 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-23.16	-62.29	-113.89	-581.13	-990.90	-820.58	-1,107.89	-1,055.58	0.00	-34.01	-65.74	-115.30	-581.56	-991.79	-821.39	-1,109.01	-1,056.52
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	1.03	1.22	0.92	-3.60	-7.26	-5.68	-8.31	-7.72	0.00	1.18	1.23	0.92	-3.62	-7.28	-5.70	-8.33	-7.74
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-297.55	-443.55	-508.19	-676.69	-894.08	-817.48	-956.27	-956.08	0.00	-360.49	-455.02	-510.92	-674.14	-891.66	-814.92	-953.82	-953.47
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	30.36	36.02	27.13	-106.67	-215.12	-168.28	-246.06	-228.69	0.00	34.80	36.34	27.01	-107.14	-215.72	-168.88	-246.75	-229.34
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	13.03	15.17	10.86	-51.37	-102.07	-80.23	-116.53	-108.53	0.00	14.87	15.28	10.80	-51.58	-102.34	-80.49	-116.84	-108.82
Poughkeepsie, NY	Moderate	-	100	-	0.00	9.25	11.01	8.36	-31.82	-64.35	-50.30	-73.64	-68.41	0.00	10.61	11.11	8.32	-31.96	-64.54	-50.48	-73.84	-68.61
Providence (All RI), RI	Moderate	-	100	-	0.00	5.75	6.55	4.42	-25.34	-49.71	-39.24	-56.66	-52.86	0.00	6.54	6.59	4.38	-25.44	-49.83	-39.36	-56.80	-53.00
Reading, PA	-	Nonattainment	-	100	0.00	2.36	2.81	2.13	-8.12	-16.42	-12.84	-18.79	-17.46	0.00	2.71	2.84	2.12	-8.16	-16.47	-12.88	-18.85	-17.51
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	3.99	4.74	3.60	-13.71	-27.74	-21.68	-31.74	-29.48	0.00	4.57	4.79	3.59	-13.78	-27.81	-21.76	-31.83	-29.57
Rochester, NY	Subpart 1	-	100	-	0.00	9.48	11.28	8.57	-32.61	-65.95	-51.54	-75.46	-70.11	0.00	10.87	11.38	8.53	-32.75	-66.13	-51.73	-75.67	-70.31
Rome, GA	-	Nonattainment	-	100	0.00	0.85	1.02	0.77	-2.94	-5.94	-4.64	-6.80	-6.32	0.00	0.98	1.03	0.77	-2.95	-5.96	-4.66	-6.82	-6.33
Sacramento Metro, CA	Serious	-	50	-	0.00	-27.64	-44.67	-56.48	-128.79	-198.00	-170.38	-217.77	-211.23	0.00	-34.23	-46.05	-56.88	-128.64	-197.91	-170.27	-217.71	-211.13
San Diego, CA	Subpart 1	-	100	-	0.00	27.65	32.85	24.83	-96.31	-194.44	-152.05	-222.45	-206.71	0.00	31.71	33.15	24.73	-96.73	-194.99	-152.59	-223.07	-207.30
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-438.22	-648.94	-736.92	-914.76	-1,174.09	-1,086.72	-1,248.31	-1,256.13	0.00	-529.99	-665.44	-740.76	-910.91	-1,170.35	-1,082.79	-1,244.50	-1,252.10
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	19.58	20.58	10.41	-119.15	-226.52	-180.65	-257.16	-240.97	0.00	21.87	20.54	10.22	-119.51	-227.01	-181.13	-257.72	-241.50
Sheboygan, WI	Moderate	-	100	-	0.00	0.83	0.99	0.75	-2.86	-5.79	-4.52	-6.62	-6.15	0.00	0.95	1.00	0.75	-2.88	-5.81	-4.54	-6.64	-6.17
Springfield (Western MA), MA	Moderate	-	100	-	0.00	5.91	6.93	5.05	-22.36	-44.65	-35.04	-51.01	-47.48	0.00	6.75	6.98	5.03	-22.45	-44.77	-35.16	-51.15	-47.61
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-254.59	-374.73	-422.03	-488.05	-606.44	-569.19	-640.35	-649.19	0.00	-307.42	-384.11	-424.16	-485.76	-604.18	-566.82	-638.03	-646.76
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-9.32	-13.70	-15.40	-17.50	-21.56	-20.31	-22.72	-23.08	0.00	-11.25	-14.05	-15.48	-17.42	-21.48	-20.22	-22.64	-22.99
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	5.15	6.01	4.33	-20.01	-39.83	-31.29	-45.48	-42.34	0.00	5.88	6.05	4.31	-20.09	-39.93	-31.39	-45.60	-42.46
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	37.31	44.41	33.73	-128.39	-259.65	-202.94	-297.11	-276.03	0.00	42.80	44.82	33.58	-128.96	-260.39	-203.67	-297.95	-276.82
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-87.95	-127.83	-141.45	-137.76	-155.74	-152.46	-160.91	-167.02	0.00	-105.85	-130.92	-142.12	-136.93	-154.90	-151.58	-160.03	-166.11
York, PA	-	Nonattainment	-	100	0.00	2.41	2.87	2.18	-8.28	-16.75	-13.09	-19.17	-17.81	0.00	2.76	2.89	2.17	-8.32	-16.80	-13.14	-19.22	-17.86

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

**Table C-31
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Nitrogen Oxides 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Poughkeepsie, NY	Moderate	-	100	-	0.00	25.07	31.49	25.68	-92.26	-191.87	-164.78	-240.11	-214.27	0.00	35.33	31.93	24.79	-94.45	-194.70	-167.57	-243.32	-217.32
Providence (All RI), RI	Moderate	-	100	-	0.00	15.22	18.68	14.32	-68.49	-138.77	-119.78	-172.85	-154.76	0.00	21.35	18.85	13.71	-69.91	-140.63	-121.61	-174.97	-156.77
Reading, PA	-	Nonattainment	-	100	0.00	5.88	7.39	6.02	-21.64	-45.00	-38.64	-56.31	-50.25	0.00	8.29	7.49	5.81	-22.15	-45.66	-39.30	-57.06	-50.97
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	11.43	14.35	11.71	-42.05	-87.45	-75.10	-109.44	-97.67	0.00	16.11	14.56	11.30	-43.05	-88.74	-76.38	-110.90	-99.05
Rochester, NY	Subpart 1	-	100	-	0.00	23.65	29.71	24.23	-87.03	-180.98	-155.43	-226.49	-202.12	0.00	33.33	30.12	23.38	-89.09	-183.65	-158.06	-229.51	-204.99
Rome, GA	-	Nonattainment	-	100	0.00	2.11	2.66	2.17	-7.78	-16.18	-13.89	-20.24	-18.06	0.00	2.98	2.69	2.09	-7.96	-16.41	-14.13	-20.51	-18.32
Sacramento Metro, CA	Serious	-	50	-	0.00	-46.17	-75.72	-98.69	-333.61	-545.76	-493.18	-650.41	-601.00	0.00	-69.04	-80.56	-99.59	-333.21	-546.50	-493.67	-651.71	-601.81
San Diego, CA	Subpart 1	-	100	-	0.00	76.56	96.09	78.17	-284.35	-590.56	-507.30	-738.87	-659.48	0.00	107.88	97.41	75.42	-291.06	-599.24	-515.86	-748.71	-668.81
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-912.69	-1,338.26	-1,491.17	-2,089.46	-2,743.61	-2,621.04	-3,081.00	-2,972.03	0.00	-1,329.36	-1,397.98	-1,486.10	-2,049.01	-2,704.88	-2,580.41	-3,042.11	-2,930.66
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	61.29	72.89	50.90	-341.99	-676.97	-587.04	-839.64	-754.05	0.00	85.45	73.03	48.12	-348.19	-685.27	-595.17	-849.15	-762.99
Sheboygan, WI	Moderate	-	100	-	0.00	2.14	2.69	2.19	-7.87	-16.36	-14.05	-20.48	-18.28	0.00	3.01	2.72	2.11	-8.06	-16.61	-14.29	-20.75	-18.54
Springfield (Western MA), MA	Moderate	-	100	-	0.00	14.89	18.55	14.79	-59.37	-122.12	-105.10	-152.53	-136.30	0.00	20.95	18.77	14.23	-60.70	-123.86	-106.81	-154.50	-138.17
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-539.19	-785.29	-865.52	-1,083.41	-1,351.25	-1,309.57	-1,492.56	-1,457.26	0.00	-784.15	-819.36	-861.77	-1,058.42	-1,326.59	-1,283.87	-1,467.42	-1,430.90
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-19.83	-28.84	-31.70	-38.52	-47.33	-46.07	-52.01	-50.97	0.00	-28.83	-30.08	-31.55	-37.59	-46.40	-45.11	-51.07	-49.99
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	14.62	18.18	14.45	-58.94	-121.06	-104.21	-151.16	-135.10	0.00	20.56	18.39	13.90	-60.25	-122.77	-105.90	-153.10	-136.95
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	98.27	123.45	100.68	-361.64	-752.07	-645.88	-941.16	-839.89	0.00	138.50	125.18	97.16	-370.23	-763.18	-656.83	-953.74	-851.83
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-188.20	-271.27	-293.90	-297.79	-328.15	-329.96	-346.60	-349.75	0.00	-273.06	-282.52	-292.18	-288.49	-318.59	-320.09	-336.67	-339.53
York, PA	-	Nonattainment	-	100	0.00	6.21	7.80	6.36	-22.85	-47.52	-40.81	-59.46	-53.06	0.00	8.75	7.91	6.14	-23.39	-48.22	-41.50	-60.26	-53.82

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

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Table C-32
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Nitrogen Oxides 2050																						
Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	36.05	46.27	38.17	-138.71	-289.52	-255.31	-370.62	-327.71	0.00	53.14	45.09	34.32	-145.85	-298.81	-264.46	-381.18	-337.71
Allegan Co, MI	Subpart 1	-	100	-	0.00	4.34	5.59	4.66	-15.96	-33.52	-29.53	-42.96	-37.96	0.00	6.40	5.46	4.20	-16.80	-34.61	-30.61	-44.20	-39.13
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	5.23	6.74	5.62	-19.25	-40.43	-35.62	-51.82	-45.79	0.00	7.71	6.58	5.07	-20.27	-41.76	-36.92	-53.32	-47.21
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	196.72	253.24	210.61	-731.91	-1,534.90	-1,352.50	-1,966.64	-1,737.92	0.00	290.05	247.14	189.89	-770.33	-1,584.80	-1,401.67	-2,023.35	-1,791.65
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	84.95	108.99	89.81	-328.42	-685.04	-604.15	-876.83	-775.37	0.00	125.23	106.20	80.72	-345.27	-706.97	-625.76	-901.77	-798.99
Baton Rouge, LA	Moderate	-	100	-	0.00	-1,016.83	-1,465.54	-1,584.49	-1,651.20	-1,838.04	-1,849.09	-1,961.30	-1,959.68	0.00	-1,509.09	-1,505.30	-1,542.42	-1,564.73	-1,749.43	-1,757.64	-1,869.56	-1,865.07
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-1,086.87	-1,564.86	-1,688.49	-1,708.64	-1,863.43	-1,884.89	-1,970.78	-1,981.32	0.00	-1,612.93	-1,606.63	-1,642.85	-1,615.06	-1,766.96	-1,785.45	-1,870.64	-1,878.29
Birmingham, AL	-	Nonattainment	-	100	0.00	-3.00	-8.67	-18.43	-155.57	-276.40	-250.59	-342.06	-309.23	0.00	-4.73	-10.76	-20.11	-158.42	-280.83	-254.84	-347.38	-314.03
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	148.01	190.61	158.70	-548.00	-1,150.02	-1,013.24	-1,473.69	-1,302.19	0.00	218.24	186.06	143.15	-576.85	-1,187.48	-1,050.16	-1,516.26	-1,342.52
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	18.64	24.02	20.03	-68.58	-144.06	-126.91	-184.64	-163.13	0.00	27.49	23.45	18.07	-72.21	-148.76	-131.54	-189.98	-168.19
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	33.18	42.75	35.65	-122.08	-256.43	-225.90	-328.66	-290.38	0.00	48.93	41.74	32.17	-128.53	-264.81	-234.15	-338.17	-299.40
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-105.89	-153.54	-167.95	-204.23	-249.45	-245.07	-276.27	-269.07	0.00	-157.21	-158.11	-163.95	-195.89	-241.23	-236.51	-267.92	-260.31
Charleston, WV	-	Nonattainment	-	100	0.00	7.78	10.02	8.36	-28.62	-60.12	-52.96	-77.05	-68.08	0.00	11.47	9.79	7.54	-30.13	-62.08	-54.90	-79.28	-70.19
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	50.18	64.48	53.35	-190.87	-399.04	-351.80	-510.98	-451.73	0.00	73.99	62.87	48.01	-200.76	-411.90	-364.46	-525.60	-465.57
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	15.43	19.86	16.49	-57.70	-120.92	-106.57	-154.92	-136.91	0.00	22.75	19.37	14.86	-60.72	-124.85	-110.43	-159.37	-141.13
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-1,794.96	-2,612.30	-2,876.97	-3,790.94	-4,820.06	-4,689.34	-5,417.31	-5,223.59	0.00	-2,665.51	-2,693.98	-2,813.19	-3,656.37	-4,690.94	-4,554.14	-5,287.83	-5,086.08
Chico, CA	Subpart 1	-	100	-	0.00	7.67	9.88	8.24	-28.23	-59.29	-52.23	-75.99	-67.14	0.00	11.31	9.65	7.44	-29.72	-61.22	-54.14	-78.19	-69.22
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	56.74	73.11	60.96	-208.77	-438.52	-386.31	-562.04	-496.58	0.00	83.67	71.39	55.02	-219.81	-452.84	-400.43	-578.31	-512.00
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	73.84	95.14	79.33	-271.68	-570.66	-502.72	-731.40	-646.21	0.00	108.88	92.90	71.59	-286.04	-589.29	-521.08	-752.57	-666.27
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	49.91	64.30	53.62	-183.61	-385.67	-339.76	-494.31	-436.73	0.00	73.59	62.78	48.39	-193.32	-398.27	-352.17	-508.62	-450.29
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	197.55	252.88	207.00	-784.14	-1,629.74	-1,438.16	-2,084.61	-1,844.22	0.00	291.18	246.12	185.61	-823.74	-1,681.39	-1,489.00	-2,143.37	-1,899.82
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	21.00	27.06	22.56	-77.26	-162.29	-142.97	-208.00	-183.77	0.00	30.96	26.42	20.36	-81.35	-167.59	-148.19	-214.02	-189.48
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-101.89	-162.58	-208.57	-711.12	-1,165.37	-1,072.92	-1,414.17	-1,295.14	0.00	-152.21	-173.72	-210.88	-713.72	-1,173.49	-1,080.09	-1,425.20	-1,304.04
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-142.14	-224.51	-283.70	-912.47	-1,482.65	-1,367.32	-1,795.26	-1,646.54	0.00	-212.19	-239.01	-285.97	-914.45	-1,491.50	-1,374.95	-1,807.69	-1,656.28
Door Co, WI	Subpart 1	-	100	-	0.00	1.09	1.40	1.17	-4.00	-8.41	-7.41	-10.78	-9.52	0.00	1.60	1.37	1.05	-4.21	-8.68	-7.68	-11.09	-9.82
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.04	0.05	0.05	-0.16	-0.33	-0.29	-0.42	-0.37	0.00	0.06	0.05	0.04	-0.16	-0.34	-0.30	-0.43	-0.38
Evansville, IN	-	Nonattainment	-	100	0.00	8.83	11.37	9.46	-32.75	-68.71	-60.54	-88.05	-77.80	0.00	13.02	11.10	8.53	-34.47	-70.95	-62.75	-90.59	-80.21
Greater Connecticut, CT	Moderate	-	100	-	0.00	46.51	59.81	49.58	-175.43	-367.18	-323.65	-470.30	-415.70	0.00	68.58	58.34	44.65	-184.56	-379.06	-335.35	-483.79	-428.48
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	21.99	28.17	23.11	-86.50	-180.00	-158.81	-230.29	-203.71	0.00	32.41	27.42	20.74	-90.89	-185.73	-164.45	-236.80	-209.87
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	22.69	29.16	24.13	-86.23	-180.29	-158.94	-230.88	-204.10	0.00	33.46	28.44	21.72	-90.70	-186.11	-164.67	-237.48	-210.36
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.16	0.21	0.17	-0.59	-1.24	-1.09	-1.59	-1.40	0.00	0.24	0.20	0.16	-0.62	-1.28	-1.13	-1.63	-1.45
Hickory, NC	-	Nonattainment	-	100	0.00	5.06	6.51	5.43	-18.60	-39.07	-34.41	-50.07	-44.24	0.00	7.45	6.36	4.90	-19.58	-40.34	-35.67	-51.52	-45.61

Table C-32
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Nitrogen Oxides 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-3,072.99	-4,444.43	-4,837.22	-5,523.66	-6,514.15	-6,456.05	-7,117.84	-6,996.74	0.00	-4,561.63	-4,571.60	-4,716.46	-5,273.35	-6,262.99	-6,195.66	-6,860.37	-6,728.76
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-673.93	-970.64	-1,047.97	-1,070.37	-1,175.04	-1,186.48	-1,246.33	-1,250.49	0.00	-1,000.15	-996.68	-1,019.80	-1,012.57	-1,115.57	-1,125.15	-1,184.64	-1,186.97
Imperial Co, CA	Moderate	-	100	-	0.00	6.61	8.51	7.10	-24.30	-51.05	-44.97	-65.43	-57.81	0.00	9.74	8.31	6.40	-25.59	-52.72	-46.62	-67.32	-59.60
Indianapolis, IN	-	Nonattainment	-	100	0.00	46.53	59.92	49.91	-171.98	-361.00	-318.05	-462.62	-408.77	0.00	68.60	58.50	45.02	-181.04	-372.76	-329.65	-475.99	-421.44
Jamestown, NY	Subpart 1	-	100	-	0.00	4.46	5.74	4.79	-16.40	-34.45	-30.35	-44.16	-39.01	0.00	6.57	5.61	4.32	-17.27	-35.58	-31.46	-45.43	-40.22
Jefferson Co, NY	Moderate	-	100	-	0.00	3.56	4.59	3.83	-13.11	-27.53	-24.25	-35.29	-31.18	0.00	5.25	4.48	3.45	-13.80	-28.43	-25.14	-36.31	-32.14
Johnstown, PA	-	Nonattainment	-	100	0.00	3.06	3.94	3.29	-11.26	-23.65	-20.83	-30.31	-26.78	0.00	4.51	3.85	2.97	-11.85	-24.42	-21.59	-31.19	-27.61
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-30.82	-44.83	-49.34	-64.51	-81.72	-79.58	-91.73	-88.53	0.00	-45.76	-46.23	-48.24	-62.19	-79.49	-77.24	-89.48	-86.15
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	35.37	45.57	38.00	-130.12	-273.32	-240.78	-350.31	-309.51	0.00	52.15	44.49	34.29	-137.00	-282.25	-249.58	-360.45	-319.12
Lancaster, PA	-	Nonattainment	-	100	0.00	12.67	16.25	13.38	-49.05	-102.29	-90.21	-130.92	-115.77	0.00	18.67	15.83	12.03	-51.56	-105.56	-93.44	-134.64	-119.30
Las Vegas, NV	Subpart 1	-	100	-	0.00	45.94	59.19	49.35	-169.01	-355.01	-312.74	-455.01	-402.01	0.00	67.74	57.79	44.54	-177.95	-366.60	-324.17	-468.18	-414.49
Libby, MT	-	Nonattainment	-	100	0.00	0.16	0.21	0.17	-0.60	-1.26	-1.11	-1.61	-1.43	0.00	0.24	0.20	0.16	-0.63	-1.30	-1.15	-1.66	-1.47
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-1.55	-2.30	-2.61	-4.53	-6.42	-6.09	-7.48	-7.04	0.00	-2.31	-2.39	-2.57	-4.44	-6.35	-6.01	-7.41	-6.96
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-367.12	-595.61	-782.64	-2,903.81	-4,813.12	-4,421.45	-5,857.61	-5,354.32	0.00	-549.02	-640.23	-795.06	-2,920.20	-4,853.02	-4,457.52	-5,909.99	-5,397.89
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-796.89	-1,149.36	-1,244.37	-1,322.60	-1,491.83	-1,495.59	-1,600.80	-1,593.31	0.00	-1,182.72	-1,180.90	-1,211.74	-1,255.43	-1,423.27	-1,424.77	-1,529.96	-1,520.12
Louisville, KY-IN	-	Nonattainment	-	100	0.00	30.69	39.54	32.97	-112.90	-237.15	-208.92	-303.95	-268.55	0.00	45.25	38.61	29.75	-118.87	-244.90	-216.55	-312.75	-276.89
Macon, GA	-	Nonattainment	-	100	0.00	5.75	7.41	6.18	-21.16	-44.46	-39.16	-56.98	-50.34	0.00	8.48	7.24	5.58	-22.28	-45.91	-40.59	-58.63	-51.90
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	2.91	3.75	3.13	-10.71	-22.49	-19.82	-28.83	-25.47	0.00	4.29	3.66	2.82	-11.28	-23.23	-20.54	-29.67	-26.26
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	3.47	4.47	3.73	-12.76	-26.80	-23.61	-34.35	-30.35	0.00	5.11	4.36	3.36	-13.43	-27.68	-24.47	-35.35	-31.29
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	9.25	11.92	9.94	-34.03	-71.47	-62.96	-91.60	-80.93	0.00	13.64	11.63	8.97	-35.82	-73.80	-65.26	-94.25	-83.45
Memphis, TN-AR	Moderate	-	100	-	0.00	-133.07	-195.63	-219.51	-349.16	-479.81	-458.44	-553.60	-524.40	0.00	-197.74	-202.58	-215.59	-340.58	-472.36	-450.46	-546.53	-516.50
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	51.78	66.71	55.60	-190.77	-400.63	-352.94	-513.45	-453.66	0.00	76.34	65.13	50.17	-200.84	-413.70	-365.83	-528.31	-467.74
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	4.47	5.76	4.80	-16.45	-34.56	-30.44	-44.29	-39.13	0.00	6.59	5.63	4.34	-17.32	-35.69	-31.56	-45.57	-40.35
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-11.55	-84.50	-232.88	-2,373.60	-4,255.22	-3,851.61	-5,277.06	-4,764.05	0.00	-21.41	-115.83	-260.58	-2,421.20	-4,327.59	-3,921.07	-5,363.27	-4,842.31
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	4.09	5.26	4.37	-15.27	-32.01	-28.21	-41.01	-36.24	0.00	6.02	5.13	3.94	-16.07	-33.05	-29.23	-42.19	-37.36
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-1,008.11	-1,478.09	-1,650.45	-2,508.78	-3,389.80	-3,251.28	-3,889.75	-3,698.25	0.00	-1,497.73	-1,528.95	-1,619.17	-2,441.04	-3,329.11	-3,186.72	-3,831.10	-3,633.81
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	148.23	190.76	158.52	-553.39	-1,159.95	-1,022.19	-1,486.09	-1,313.34	0.00	218.55	186.14	142.88	-582.38	-1,197.61	-1,059.30	-1,528.89	-1,353.88
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	52.57	67.05	54.31	-217.30	-449.21	-396.75	-574.00	-508.15	0.00	77.48	65.14	48.51	-228.01	-463.23	-410.54	-589.96	-523.24
Poughkeepsie, NY	Moderate	-	100	-	0.00	40.93	52.73	43.97	-150.58	-316.29	-278.64	-405.38	-358.17	0.00	60.35	51.49	39.68	-158.54	-326.62	-288.81	-417.12	-369.29
Providence (All RI), RI	Moderate	-	100	-	0.00	24.87	31.45	24.86	-111.78	-228.66	-202.30	-291.58	-258.47	0.00	36.63	30.43	22.01	-117.03	-235.56	-209.09	-299.46	-265.91
Reading, PA	-	Nonattainment	-	100	0.00	9.60	12.37	10.31	-35.31	-74.18	-65.35	-95.07	-84.00	0.00	14.15	12.08	9.31	-37.18	-76.60	-67.73	-97.82	-86.61
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	18.66	24.04	20.04	-68.64	-144.17	-127.00	-184.78	-163.25	0.00	27.51	23.47	18.09	-72.26	-148.88	-131.64	-190.12	-168.32
Rochester, NY	Subpart 1	-	100	-	0.00	38.61	49.74	41.48	-142.04	-298.35	-262.83	-382.39	-337.85	0.00	56.93	48.57	37.43	-149.55	-308.09	-272.43	-393.46	-348.34
Rome, GA	-	Nonattainment	-	100	0.00	3.45	4.45	3.71	-12.69	-26.66	-23.49	-34.18	-30.19	0.00	5.09	4.34	3.35	-13.37	-27.54	-24.35	-35.16	-31.13

**Table C-32
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Nitrogen Oxides 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Sacramento Metro, CA	Serious	-	50	-	0.00	-74.58	-119.68	-154.83	-544.25	-895.68	-823.94	-1,088.08	-995.78	0.00	-111.45	-128.15	-156.80	-546.63	-902.36	-829.90	-1,097.03	-1,003.10
San Diego, CA	Subpart 1	-	100	-	0.00	124.99	160.93	133.90	-464.08	-973.52	-857.79	-1,247.43	-1,102.31	0.00	184.29	157.07	120.75	-488.47	-1,005.20	-889.01	-1,283.42	-1,136.41
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-1,481.44	-2,164.05	-2,399.90	-3,407.54	-4,479.38	-4,323.70	-5,093.10	-4,872.50	0.00	-2,200.44	-2,235.12	-2,350.59	-3,302.23	-4,381.50	-4,220.47	-4,996.57	-4,768.40
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	100.23	123.69	90.41	-558.11	-1,115.06	-990.37	-1,415.29	-1,258.41	0.00	147.45	118.16	77.63	-581.51	-1,146.25	-1,020.97	-1,451.04	-1,292.02
Sheboygan, WI	Moderate	-	100	-	0.00	3.49	4.50	3.75	-12.84	-26.98	-23.77	-34.58	-30.55	0.00	5.15	4.39	3.38	-13.52	-27.86	-24.63	-35.58	-31.50
Springfield (Western MA), MA	Moderate	-	100	-	0.00	24.32	31.12	25.45	-96.89	-201.28	-177.63	-257.43	-227.76	0.00	35.84	30.28	22.81	-101.78	-207.65	-183.90	-264.68	-234.62
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-875.43	-1,271.68	-1,395.64	-1,766.73	-2,203.07	-2,153.40	-2,458.75	-2,382.18	0.00	-1,299.85	-1,310.44	-1,363.55	-1,699.41	-2,137.54	-2,085.01	-2,392.56	-2,312.34
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-32.20	-46.71	-51.14	-62.81	-77.13	-75.68	-85.59	-83.25	0.00	-47.81	-48.11	-49.93	-60.29	-74.65	-73.09	-83.08	-80.61
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	23.87	30.51	24.88	-96.19	-199.52	-176.12	-255.11	-225.74	0.00	35.18	29.68	22.28	-101.01	-205.80	-182.31	-262.26	-232.51
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	160.43	206.71	172.36	-590.24	-1,239.80	-1,092.19	-1,589.01	-1,403.94	0.00	236.55	201.83	155.54	-621.44	-1,280.28	-1,132.09	-1,635.01	-1,447.52
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-305.68	-440.26	-475.35	-485.55	-533.06	-538.24	-565.41	-567.29	0.00	-453.65	-452.08	-462.57	-459.33	-506.08	-510.42	-537.43	-538.48
York, PA	-	Nonattainment	-	100	0.00	10.14	13.06	10.89	-37.29	-78.33	-69.00	-100.39	-88.70	0.00	14.95	12.75	9.83	-39.26	-80.89	-71.52	-103.30	-91.45

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-33
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Particulate Matter 2016																						
Nonattainment Area	Status b/		General Conformity Threshold c/		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	0.45	0.46	0.53	1.45	2.58	2.40	3.02	2.88	0.00	0.45	0.46	0.53	1.45	2.58	2.40	3.02	2.88
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.05	0.05	0.06	0.16	0.28	0.26	0.33	0.32	0.00	0.05	0.05	0.06	0.16	0.28	0.26	0.33	0.32
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.05	0.05	0.06	0.16	0.29	0.27	0.34	0.32	0.00	0.05	0.05	0.06	0.16	0.29	0.27	0.34	0.32
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	2.26	2.29	2.63	7.24	12.88	12.00	15.07	14.41	0.00	2.26	2.29	2.63	7.24	12.88	12.00	15.07	14.41
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	1.04	1.06	1.21	3.34	5.94	5.53	6.95	6.65	0.00	1.04	1.06	1.21	3.34	5.94	5.53	6.95	6.65
Baton Rouge, LA	Moderate	-	100	-	0.00	-11.51	-17.09	-19.58	-15.44	-17.22	-16.26	-16.48	-18.73	0.00	-11.51	-17.09	-19.58	-15.44	-17.22	-16.26	-16.48	-18.73
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-12.69	-18.78	-21.52	-17.25	-19.50	-18.40	-18.82	-21.23	0.00	-12.69	-18.78	-21.52	-17.25	-19.50	-18.40	-18.82	-21.23
Birmingham, AL	-	Nonattainment	-	100	0.00	-0.38	-0.73	-0.84	0.15	0.92	0.84	1.31	1.06	0.00	-0.38	-0.73	-0.84	0.15	0.92	0.84	1.31	1.06
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	1.62	1.56	1.79	5.54	10.03	9.34	11.79	11.23	0.00	1.62	1.56	1.79	5.54	10.03	9.34	11.79	11.23
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.22	0.22	0.26	0.71	1.25	1.17	1.47	1.40	0.00	0.22	0.22	0.26	0.71	1.25	1.17	1.47	1.40
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.42	0.43	0.49	1.35	2.39	2.23	2.80	2.68	0.00	0.42	0.43	0.49	1.35	2.39	2.23	2.80	2.68
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-0.80	-1.23	-1.40	-0.90	-0.81	-0.78	-0.67	-0.87	0.00	-0.80	-1.23	-1.40	-0.90	-0.81	-0.78	-0.67	-0.87
Charleston, WV	-	Nonattainment	-	100	0.00	0.10	0.11	0.12	0.34	0.60	0.56	0.70	0.67	0.00	0.10	0.11	0.12	0.34	0.60	0.56	0.70	0.67
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	0.53	0.50	0.58	1.81	3.28	3.05	3.85	3.67	0.00	0.53	0.50	0.58	1.81	3.28	3.05	3.85	3.67
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.08	0.03	0.03	0.46	0.93	0.86	1.12	1.04	0.00	0.08	0.03	0.03	0.46	0.93	0.86	1.12	1.04
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-13.90	-21.63	-24.78	-14.70	-11.88	-11.37	-8.82	-12.55	0.00	-13.90	-21.63	-24.78	-14.70	-11.88	-11.37	-8.82	-12.55
Chico, CA	Subpart 1	-	100	-	0.00	0.08	0.08	0.09	0.26	0.46	0.43	0.54	0.51	0.00	0.08	0.08	0.09	0.26	0.46	0.43	0.54	0.51
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	0.69	0.70	0.81	2.22	3.94	3.67	4.61	4.41	0.00	0.69	0.70	0.81	2.22	3.94	3.67	4.61	4.41
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	0.95	0.96	1.10	3.02	5.38	5.01	6.29	6.02	0.00	0.95	0.96	1.10	3.02	5.38	5.01	6.29	6.02
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	0.58	0.58	0.67	1.85	3.29	3.07	3.85	3.68	0.00	0.58	0.58	0.67	1.85	3.29	3.07	3.85	3.68
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	2.11	2.03	2.34	7.15	12.92	12.03	15.18	14.46	0.00	2.11	2.03	2.34	7.15	12.92	12.03	15.18	14.46
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.28	0.28	0.32	0.88	1.57	1.46	1.83	1.75	0.00	0.28	0.28	0.32	0.88	1.57	1.46	1.83	1.75
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-6.11	-9.56	-10.95	-6.24	-4.73	-4.54	-3.26	-4.96	0.00	-6.11	-9.56	-10.95	-6.24	-4.73	-4.54	-3.26	-4.96
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-5.30	-8.59	-9.84	-4.27	-1.51	-1.53	0.41	-1.37	0.00	-5.30	-8.59	-9.84	-4.27	-1.51	-1.53	0.41	-1.37
Door Co, WI	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.04	0.07	0.07	0.09	0.08	0.00	0.01	0.01	0.01	0.04	0.07	0.07	0.09	0.08
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	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
Evansville, IN	-	Nonattainment	-	100	0.00	0.11	0.11	0.13	0.35	0.63	0.59	0.74	0.71	0.00	0.11	0.11	0.13	0.35	0.63	0.59	0.74	0.71
Greater Connecticut, CT	Moderate	-	100	-	0.00	0.60	0.61	0.70	1.93	3.44	3.20	4.02	3.85	0.00	0.60	0.61	0.70	1.93	3.44	3.20	4.02	3.85
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.29	0.29	0.33	0.92	1.63	1.52	1.91	1.83	0.00	0.29	0.29	0.33	0.92	1.63	1.52	1.91	1.83
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.27	0.28	0.32	0.88	1.56	1.45	1.83	1.75	0.00	0.27	0.28	0.32	0.88	1.56	1.45	1.83	1.75
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01

Table C-33
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Particulate Matter 2016

Nonattainment Area	Status b/		General Conformity Threshold c/		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Hickory, NC	-	Nonattainment	-	100	0.00	0.06	0.07	0.07	0.21	0.37	0.34	0.43	0.41	0.00	0.06	0.07	0.07	0.21	0.37	0.34	0.43	0.41
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-49.90	-74.46	-85.33	-65.35	-71.07	-67.17	-67.02	-77.15	0.00	-49.90	-74.46	-85.33	-65.35	-71.07	-67.17	-67.02	-77.15
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-6.72	-9.96	-11.42	-9.05	-10.14	-9.57	-9.74	-11.03	0.00	-6.72	-9.96	-11.42	-9.05	-10.14	-9.57	-9.74	-11.03
Imperial Co, CA	Moderate	-	100	-	0.00	0.07	0.07	0.08	0.23	0.41	0.38	0.48	0.46	0.00	0.07	0.07	0.08	0.23	0.41	0.38	0.48	0.46
Indianapolis, IN	-	Nonattainment	-	100	0.00	0.55	0.56	0.64	1.77	3.14	2.93	3.68	3.52	0.00	0.55	0.56	0.64	1.77	3.14	2.93	3.68	3.52
Jamestown, NY	Subpart 1	-	100	-	0.00	0.06	0.06	0.07	0.18	0.32	0.30	0.38	0.36	0.00	0.06	0.06	0.07	0.18	0.32	0.30	0.38	0.36
Jefferson Co, NY	Moderate	-	100	-	0.00	0.04	0.05	0.05	0.14	0.25	0.24	0.30	0.28	0.00	0.04	0.05	0.05	0.14	0.25	0.24	0.30	0.28
Johnstown, PA	-	Nonattainment	-	100	0.00	0.04	0.04	0.05	0.14	0.25	0.23	0.29	0.28	0.00	0.04	0.04	0.05	0.14	0.25	0.23	0.29	0.28
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.14	-0.23	-0.26	-0.13	-0.08	-0.07	-0.03	-0.08	0.00	-0.14	-0.23	-0.26	-0.13	-0.08	-0.07	-0.03	-0.08
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.40	0.41	0.47	1.29	2.29	2.13	2.68	2.56	0.00	0.40	0.41	0.47	1.29	2.29	2.13	2.68	2.56
Lancaster, PA	-	Nonattainment	-	100	0.00	0.16	0.16	0.18	0.51	0.90	0.84	1.05	1.01	0.00	0.16	0.16	0.18	0.51	0.90	0.84	1.05	1.01
Las Vegas, NV	Subpart 1	-	100	-	0.00	0.48	0.48	0.56	1.55	2.75	2.56	3.22	3.08	0.00	0.48	0.48	0.56	1.55	2.75	2.56	3.22	3.08
Libby, MT	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.01	0.03	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.02	0.03	0.03
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-19.36	-30.96	-35.46	-17.17	-9.10	-8.94	-3.00	-9.07	0.00	-19.36	-30.96	-35.46	-17.17	-9.10	-8.94	-3.00	-9.07
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-24.36	-36.02	-41.28	-33.17	-37.56	-35.44	-36.29	-40.90	0.00	-24.36	-36.02	-41.28	-33.17	-37.56	-35.44	-36.29	-40.90
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.39	0.40	0.46	1.26	2.24	2.08	2.62	2.50	0.00	0.39	0.40	0.46	1.26	2.24	2.08	2.62	2.50
Macon, GA	-	Nonattainment	-	100	0.00	0.08	0.08	0.09	0.24	0.43	0.40	0.50	0.48	0.00	0.08	0.08	0.09	0.24	0.43	0.40	0.50	0.48
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.04	0.04	0.04	0.12	0.21	0.20	0.25	0.24	0.00	0.04	0.04	0.04	0.12	0.21	0.20	0.25	0.24
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.04	0.04	0.04	0.11	0.20	0.19	0.24	0.23	0.00	0.04	0.04	0.04	0.11	0.20	0.19	0.24	0.23
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.11	0.11	0.13	0.36	0.64	0.60	0.75	0.72	0.00	0.11	0.11	0.13	0.36	0.64	0.60	0.75	0.72
Memphis, TN-AR	Moderate	-	100	-	0.00	-2.31	-3.58	-4.10	-2.53	-2.16	-2.07	-1.70	-2.30	0.00	-2.31	-3.58	-4.10	-2.53	-2.16	-2.07	-1.70	-2.30
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	0.63	0.64	0.74	2.03	3.61	3.37	4.23	4.04	0.00	0.63	0.64	0.74	2.03	3.61	3.37	4.23	4.04
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.04	0.04	0.05	0.14	0.24	0.23	0.29	0.27	0.00	0.04	0.04	0.05	0.14	0.24	0.23	0.29	0.27
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	1.78	0.02	0.05	12.70	25.94	24.10	31.54	29.20	0.00	1.78	0.02	0.05	12.70	25.94	24.10	31.54	29.20
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.05	0.05	0.06	0.17	0.31	0.29	0.36	0.34	0.00	0.05	0.05	0.06	0.17	0.31	0.29	0.36	0.34
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-12.69	-19.79	-22.67	-13.22	-10.40	-9.97	-7.49	-10.95	0.00	-12.69	-19.79	-22.67	-13.22	-10.40	-9.97	-7.49	-10.95
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	1.44	1.46	1.67	4.63	8.24	7.67	9.64	9.21	0.00	1.44	1.46	1.67	4.63	8.24	7.67	9.64	9.21
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.36	0.19	0.22	1.85	3.61	3.36	4.34	4.06	0.00	0.36	0.19	0.22	1.85	3.61	3.36	4.34	4.06
Poughkeepsie, NY	Moderate	-	100	-	0.00	0.46	0.47	0.54	1.47	2.62	2.44	3.07	2.93	0.00	0.46	0.47	0.54	1.47	2.62	2.44	3.07	2.93
Providence (All RI), RI	Moderate	-	100	-	0.00	0.35	0.35	0.40	1.11	1.98	1.84	2.31	2.21	0.00	0.35	0.35	0.40	1.11	1.98	1.84	2.31	2.21
Reading, PA	-	Nonattainment	-	100	0.00	0.12	0.12	0.14	0.38	0.68	0.64	0.80	0.76	0.00	0.12	0.12	0.14	0.38	0.68	0.64	0.80	0.76
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.19	0.20	0.22	0.62	1.10	1.02	1.28	1.23	0.00	0.19	0.20	0.22	0.62	1.10	1.02	1.28	1.23
Rochester, NY	Subpart 1	-	100	-	0.00	0.48	0.49	0.56	1.54	2.74	2.55	3.20	3.06	0.00	0.48	0.49	0.56	1.54	2.74	2.55	3.20	3.06

**Table C-33
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Particulate Matter 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Rome, GA	-	Nonattainment	-	100	0.00	0.04	0.04	0.05	0.14	0.25	0.23	0.29	0.27	0.00	0.04	0.04	0.05	0.14	0.25	0.23	0.29	0.27
Sacramento Metro, CA	Serious	-	50	-	0.00	-2.51	-4.10	-4.69	-1.92	-0.49	-0.51	0.48	-0.39	0.00	-2.51	-4.10	-4.69	-1.92	-0.49	-0.51	0.48	-0.39
San Diego, CA	Subpart 1	-	100	-	0.00	1.36	1.38	1.59	4.36	7.75	7.22	9.07	8.67	0.00	1.36	1.38	1.59	4.36	7.75	7.22	9.07	8.67
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-17.44	-26.90	-30.82	-19.40	-17.06	-16.27	-13.74	-18.18	0.00	-17.44	-26.90	-30.82	-19.40	-17.06	-16.27	-13.74	-18.18
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	1.29	1.22	1.40	4.45	8.08	7.52	9.50	9.04	0.00	1.29	1.22	1.40	4.45	8.08	7.52	9.50	9.04
Sheboygan, WI	Moderate	-	100	-	0.00	0.04	0.04	0.05	0.13	0.24	0.22	0.28	0.27	0.00	0.04	0.04	0.05	0.13	0.24	0.22	0.28	0.27
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.32	0.33	0.38	1.03	1.84	1.71	2.15	2.06	0.00	0.32	0.33	0.38	1.03	1.84	1.71	2.15	2.06
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-37.80	-56.23	-64.44	-50.19	-55.39	-52.32	-52.71	-60.20	0.00	-37.80	-56.23	-64.44	-50.19	-55.39	-52.32	-52.71	-60.20
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-0.03	-0.06	-0.07	0.03	0.10	0.10	0.14	0.12	0.00	-0.03	-0.06	-0.07	0.03	0.10	0.10	0.14	0.12
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.26	0.26	0.30	0.86	1.55	1.44	1.81	1.73	0.00	0.26	0.26	0.30	0.86	1.55	1.44	1.81	1.73
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	1.86	1.88	2.16	5.94	10.57	9.85	12.37	11.83	0.00	1.86	1.88	2.16	5.94	10.57	9.85	12.37	11.83
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-9.58	-14.15	-16.21	-13.11	-14.93	-14.09	-14.47	-16.26	0.00	-9.58	-14.15	-16.21	-13.11	-14.93	-14.09	-14.47	-16.26
York, PA	-	Nonattainment	-	100	0.00	0.12	0.12	0.14	0.39	0.69	0.65	0.81	0.78	0.00	0.12	0.12	0.14	0.39	0.69	0.65	0.81	0.78

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-34
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Particulate Matter 2020																						
Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	1.01	1.03	1.13	2.99	4.71	4.88	6.20	5.78	0.00	1.08	1.04	1.13	2.99	4.70	4.87	6.20	5.78
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.11	0.11	0.12	0.33	0.52	0.54	0.69	0.64	0.00	0.12	0.11	0.13	0.33	0.52	0.54	0.69	0.64
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.12	0.12	0.13	0.35	0.55	0.57	0.73	0.68	0.00	0.13	0.12	0.13	0.35	0.55	0.57	0.73	0.68
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	5.17	5.28	5.80	15.36	24.19	25.07	31.86	29.73	0.00	5.53	5.33	5.80	15.35	24.17	25.05	31.85	29.71
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	2.33	2.38	2.62	6.93	10.92	11.31	14.38	13.42	0.00	2.50	2.41	2.62	6.93	10.91	11.30	14.37	13.41
Baton Rouge, LA	Moderate	-	100	-	0.00	-28.98	-42.23	-46.43	-39.92	-41.35	-41.20	-40.79	-43.89	0.00	-34.97	-43.26	-46.65	-39.66	-41.10	-40.94	-40.54	-43.62
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-31.92	-46.40	-51.01	-44.45	-46.51	-46.40	-46.34	-49.60	0.00	-38.49	-47.53	-51.25	-44.16	-46.24	-46.12	-46.07	-49.31
Birmingham, AL	-	Nonattainment	-	100	0.00	-1.07	-1.90	-2.09	-0.24	0.99	1.13	2.18	1.66	0.00	-1.40	-1.96	-2.11	-0.23	1.01	1.15	2.20	1.68
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	3.55	3.42	3.76	11.30	18.13	18.81	24.10	22.40	0.00	3.73	3.45	3.76	11.29	18.12	18.80	24.09	22.39
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	0.49	0.50	0.55	1.46	2.30	2.38	3.03	2.83	0.00	0.53	0.51	0.55	1.46	2.30	2.38	3.03	2.83
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	0.92	0.94	1.03	2.74	4.31	4.47	5.68	5.30	0.00	0.99	0.95	1.03	2.73	4.31	4.46	5.68	5.29
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-2.04	-3.06	-3.36	-2.50	-2.28	-2.24	-1.95	-2.27	0.00	-2.49	-3.13	-3.38	-2.48	-2.26	-2.22	-1.93	-2.25
Charleston, WV	-	Nonattainment	-	100	0.00	0.23	0.23	0.25	0.67	1.06	1.10	1.39	1.30	0.00	0.24	0.23	0.25	0.67	1.06	1.09	1.39	1.30
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	1.18	1.13	1.24	3.76	6.05	6.27	8.04	7.47	0.00	1.23	1.14	1.24	3.76	6.04	6.27	8.04	7.47
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.14	0.02	0.03	0.88	1.60	1.67	2.24	2.03	0.00	0.12	0.02	0.02	0.88	1.60	1.67	2.24	2.03
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-35.62	-53.97	-59.34	-41.59	-35.58	-34.58	-27.84	-34.08	0.00	-43.64	-55.36	-59.65	-41.25	-35.25	-34.24	-27.51	-33.73
Chico, CA	Subpart 1	-	100	-	0.00	0.19	0.19	0.21	0.55	0.87	0.90	1.14	1.07	0.00	0.20	0.19	0.21	0.55	0.87	0.90	1.14	1.07
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	1.54	1.57	1.73	4.57	7.20	7.46	9.49	8.85	0.00	1.65	1.59	1.73	4.57	7.20	7.46	9.48	8.85
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	2.06	2.10	2.31	6.12	9.64	9.99	12.70	11.85	0.00	2.20	2.13	2.31	6.12	9.63	9.98	12.69	11.84
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	1.29	1.32	1.45	3.84	6.05	6.27	7.97	7.44	0.00	1.38	1.33	1.45	3.84	6.05	6.27	7.97	7.43
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	4.77	4.63	5.08	15.02	24.05	24.96	31.94	29.70	0.00	5.02	4.67	5.08	15.01	24.04	24.94	31.93	29.68
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	0.60	0.61	0.67	1.77	2.79	2.89	3.67	3.43	0.00	0.64	0.62	0.67	1.77	2.79	2.89	3.67	3.43
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-15.60	-23.79	-26.16	-17.65	-14.43	-13.93	-10.50	-13.42	0.00	-19.16	-24.41	-26.29	-17.50	-14.28	-13.77	-10.36	-13.26
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-13.87	-21.67	-23.83	-13.81	-8.98	-8.33	-3.71	-6.92	0.00	-17.20	-22.25	-23.96	-13.67	-8.85	-8.19	-3.58	-6.78
Door Co, WI	Subpart 1	-	100	-	0.00	0.03	0.03	0.03	0.08	0.13	0.14	0.18	0.16	0.00	0.03	0.03	0.03	0.08	0.13	0.14	0.18	0.16
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Evansville, IN	-	Nonattainment	-	100	0.00	0.24	0.24	0.27	0.72	1.14	1.18	1.50	1.40	0.00	0.26	0.25	0.27	0.72	1.14	1.18	1.50	1.40
Greater Connecticut, CT	Moderate	-	100	-	0.00	1.32	1.35	1.48	3.92	6.17	6.39	8.13	7.59	0.00	1.41	1.36	1.48	3.92	6.17	6.39	8.12	7.58
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	0.64	0.65	0.72	1.90	3.00	3.11	3.95	3.68	0.00	0.68	0.66	0.72	1.90	2.99	3.10	3.95	3.68
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	0.61	0.63	0.69	1.83	2.88	2.98	3.79	3.53	0.00	0.66	0.63	0.69	1.82	2.87	2.98	3.79	3.53
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.02

**Table C-34
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Particulate Matter 2020																						
Nonattainment Area	Status <u>b</u> /		General Conformity Threshold <u>c</u> /		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Hickory, NC	-	Nonattainment	-	100	0.00	0.14	0.15	0.16	0.43	0.67	0.70	0.89	0.83	0.00	0.15	0.15	0.16	0.43	0.67	0.70	0.89	0.83
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-125.82	-184.22	-202.52	-170.30	-173.39	-172.42	-168.12	-182.55	0.00	-152.11	-188.74	-203.50	-169.17	-172.30	-171.28	-167.02	-181.38
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-16.92	-24.63	-27.08	-23.41	-24.36	-24.29	-24.14	-25.91	0.00	-20.41	-25.23	-27.21	-23.26	-24.22	-24.14	-23.99	-25.75
Imperial Co, CA	Moderate	-	100	-	0.00	0.17	0.17	0.18	0.49	0.77	0.80	1.02	0.95	0.00	0.18	0.17	0.19	0.49	0.77	0.80	1.02	0.95
Indianapolis, IN	-	Nonattainment	-	100	0.00	1.23	1.26	1.38	3.67	5.78	5.99	7.62	7.11	0.00	1.32	1.27	1.38	3.67	5.78	5.99	7.61	7.10
Jamestown, NY	Subpart 1	-	100	-	0.00	0.12	0.13	0.14	0.37	0.58	0.60	0.76	0.71	0.00	0.13	0.13	0.14	0.37	0.58	0.60	0.76	0.71
Jefferson Co, NY	Moderate	-	100	-	0.00	0.10	0.10	0.11	0.29	0.46	0.48	0.60	0.56	0.00	0.10	0.10	0.11	0.29	0.46	0.48	0.60	0.56
Johnstown, PA	-	Nonattainment	-	100	0.00	0.09	0.10	0.10	0.28	0.44	0.45	0.57	0.54	0.00	0.10	0.10	0.10	0.28	0.44	0.45	0.57	0.54
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.37	-0.57	-0.63	-0.39	-0.28	-0.26	-0.16	-0.24	0.00	-0.45	-0.58	-0.63	-0.38	-0.27	-0.26	-0.15	-0.23
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	0.91	0.93	1.02	2.71	4.26	4.42	5.61	5.24	0.00	0.97	0.94	1.02	2.70	4.26	4.41	5.61	5.23
Lancaster, PA	-	Nonattainment	-	100	0.00	0.35	0.36	0.40	1.05	1.65	1.71	2.18	2.03	0.00	0.38	0.36	0.40	1.05	1.65	1.71	2.18	2.03
Las Vegas, NV	Subpart 1	-	100	-	0.00	1.13	1.15	1.27	3.38	5.33	5.53	7.03	6.56	0.00	1.21	1.16	1.27	3.38	5.33	5.52	7.03	6.55
Libby, MT	-	Nonattainment	-	100	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.00	0.01	0.00	0.01	0.01	0.02	0.02	0.03	0.03
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	0.00	0.00	0.00	0.02	0.04	0.04	0.06	0.05	0.00	0.00	0.00	0.00	0.02	0.04	0.05	0.06	0.05
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-50.01	-77.52	-85.24	-51.99	-36.90	-34.79	-19.99	-30.84	0.00	-61.82	-79.57	-85.69	-51.49	-36.42	-34.28	-19.50	-30.32
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-61.24	-88.99	-97.83	-85.35	-89.41	-89.21	-89.17	-95.39	0.00	-73.82	-91.15	-98.30	-84.81	-88.89	-88.67	-88.65	-94.83
Louisville, KY-IN	-	Nonattainment	-	100	0.00	0.86	0.88	0.96	2.55	4.02	4.17	5.30	4.94	0.00	0.92	0.89	0.96	2.55	4.02	4.16	5.29	4.94
Macon, GA	-	Nonattainment	-	100	0.00	0.17	0.17	0.19	0.50	0.78	0.81	1.03	0.96	0.00	0.18	0.17	0.19	0.50	0.78	0.81	1.03	0.96
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.08	0.08	0.09	0.24	0.38	0.40	0.51	0.47	0.00	0.09	0.08	0.09	0.24	0.38	0.40	0.51	0.47
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.08	0.08	0.09	0.25	0.39	0.40	0.51	0.48	0.00	0.09	0.09	0.09	0.25	0.39	0.40	0.51	0.48
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.25	0.26	0.28	0.75	1.18	1.22	1.55	1.45	0.00	0.27	0.26	0.28	0.75	1.18	1.22	1.55	1.45
Memphis, TN-AR	Moderate	-	100	-	0.00	-5.92	-8.92	-9.81	-7.07	-6.24	-6.10	-5.11	-6.10	0.00	-7.24	-9.15	-9.86	-7.02	-6.19	-6.04	-5.06	-6.04
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	1.40	1.43	1.57	4.16	6.56	6.79	8.64	8.06	0.00	1.50	1.45	1.57	4.16	6.55	6.79	8.63	8.05
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.10	0.10	0.11	0.30	0.47	0.49	0.62	0.58	0.00	0.11	0.10	0.11	0.30	0.47	0.49	0.62	0.58
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	2.71	-1.38	-1.53	23.17	43.50	45.62	61.79	55.75	0.00	1.59	-1.59	-1.59	23.21	43.54	45.67	61.83	55.79
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.12	0.12	0.13	0.35	0.54	0.56	0.72	0.67	0.00	0.12	0.12	0.13	0.34	0.54	0.56	0.72	0.67
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-32.59	-49.46	-54.38	-37.78	-31.99	-31.04	-24.64	-30.44	0.00	-39.95	-50.73	-54.66	-37.46	-31.69	-30.72	-24.34	-30.12
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	3.44	3.50	3.84	10.23	16.12	16.71	21.25	19.82	0.00	3.67	3.54	3.85	10.22	16.11	16.70	21.24	19.81
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	0.66	0.26	0.29	3.44	6.11	6.38	8.49	7.73	0.00	0.58	0.25	0.28	3.44	6.11	6.39	8.49	7.74
Poughkeepsie, NY	Moderate	-	100	-	0.00	1.04	1.06	1.16	3.08	4.85	5.02	6.39	5.96	0.00	1.11	1.07	1.16	3.08	4.84	5.02	6.38	5.96
Providence (All RI), RI	Moderate	-	100	-	0.00	0.77	0.79	0.86	2.29	3.60	3.73	4.75	4.43	0.00	0.82	0.79	0.86	2.29	3.60	3.73	4.75	4.43
Reading, PA	-	Nonattainment	-	100	0.00	0.26	0.27	0.30	0.79	1.24	1.28	1.63	1.52	0.00	0.28	0.27	0.30	0.79	1.24	1.28	1.63	1.52
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	0.45	0.46	0.50	1.33	2.09	2.17	2.75	2.57	0.00	0.48	0.46	0.50	1.33	2.09	2.16	2.75	2.57

**Table C-34
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Particulate Matter 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Rochester, NY	Subpart 1	-	100	-	0.00	1.06	1.08	1.19	3.16	4.97	5.15	6.54	6.11	0.00	1.14	1.10	1.19	3.15	4.96	5.14	6.54	6.10
Rome, GA	-	Nonattainment	-	100	0.00	0.10	0.10	0.11	0.28	0.45	0.46	0.59	0.55	0.00	0.10	0.10	0.11	0.28	0.45	0.46	0.59	0.55
Sacramento Metro, CA	Serious	-	50	-	0.00	-6.47	-10.23	-11.24	-6.02	-3.34	-2.99	-0.48	-2.12	0.00	-8.06	-10.50	-11.31	-5.96	-3.27	-2.92	-0.42	-2.05
San Diego, CA	Subpart 1	-	100	-	0.00	3.13	3.19	3.50	9.29	14.62	15.15	19.26	17.97	0.00	3.34	3.22	3.51	9.28	14.61	15.14	19.25	17.96
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-44.48	-66.94	-73.59	-53.57	-47.77	-46.71	-39.66	-46.92	0.00	-54.35	-68.64	-73.97	-53.15	-47.37	-46.28	-39.25	-46.48
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	2.91	2.78	3.05	9.37	15.08	15.65	20.07	18.64	0.00	3.05	2.80	3.05	9.36	15.07	15.64	20.06	18.63
Sheboygan, WI	Moderate	-	100	-	0.00	0.09	0.10	0.10	0.28	0.44	0.45	0.57	0.54	0.00	0.10	0.10	0.10	0.28	0.44	0.45	0.57	0.54
Springfield (Western MA), MA	Moderate	-	100	-	0.00	0.71	0.72	0.79	2.10	3.31	3.43	4.36	4.07	0.00	0.76	0.73	0.79	2.10	3.31	3.43	4.36	4.07
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-95.30	-139.12	-152.94	-130.45	-134.31	-133.74	-131.70	-142.15	0.00	-115.08	-142.53	-153.68	-129.60	-133.49	-132.88	-130.88	-141.27
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-0.09	-0.17	-0.18	-0.01	0.11	0.13	0.23	0.18	0.00	-0.12	-0.17	-0.18	0.00	0.12	0.13	0.23	0.18
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	0.60	0.60	0.66	1.83	2.90	3.01	3.83	3.57	0.00	0.64	0.61	0.66	1.83	2.90	3.00	3.83	3.57
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	4.18	4.27	4.69	12.43	19.56	20.27	25.77	24.04	0.00	4.47	4.31	4.69	12.41	19.55	20.26	25.75	24.03
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-24.08	-34.95	-38.42	-33.71	-35.46	-35.40	-35.51	-37.91	0.00	-29.01	-35.80	-38.60	-33.50	-35.26	-35.19	-35.30	-37.69
York, PA	-	Nonattainment	-	100	0.00	0.27	0.28	0.30	0.80	1.26	1.31	1.66	1.55	0.00	0.29	0.28	0.30	0.80	1.26	1.31	1.66	1.55

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-35
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Particulate Matter 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	2.23	2.37	2.48	4.91	6.45	7.39	9.25	8.72	0.00	2.71	2.42	2.46	4.84	6.38	7.32	9.18	8.65
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.26	0.28	0.29	0.57	0.75	0.86	1.08	1.02	0.00	0.32	0.28	0.29	0.56	0.74	0.85	1.07	1.01
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.31	0.33	0.35	0.69	0.91	1.04	1.30	1.23	0.00	0.38	0.34	0.35	0.68	0.90	1.03	1.29	1.22
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	11.89	12.62	13.20	26.14	34.35	39.37	49.26	46.46	0.00	14.42	12.88	13.09	25.81	33.98	39.00	48.88	46.09
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	5.28	5.60	5.86	11.60	15.25	17.47	21.86	20.62	0.00	6.40	5.72	5.81	11.45	15.08	17.31	21.70	20.46
Baton Rouge, LA	Moderate	-	100	-	0.00	-61.99	-89.70	-96.70	-87.52	-89.10	-90.60	-89.43	-93.03	0.00	-90.43	-93.46	-96.14	-84.61	-86.27	-87.65	-86.58	-90.02
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-68.34	-98.63	-106.31	-97.02	-99.21	-101.14	-100.43	-104.20	0.00	-99.53	-102.76	-105.69	-93.83	-96.11	-97.89	-97.29	-100.89
Birmingham, AL	-	Nonattainment	-	100	0.00	-2.29	-3.96	-4.32	-1.93	-0.88	-0.27	1.18	0.56	0.00	-3.75	-4.16	-4.30	-1.79	-0.75	-0.14	1.31	0.70
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	7.90	8.00	8.32	18.15	24.27	27.99	35.41	33.26	0.00	9.33	8.13	8.25	17.94	24.03	27.77	35.18	33.03
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	1.12	1.19	1.24	2.46	3.23	3.70	4.63	4.37	0.00	1.36	1.21	1.23	2.43	3.19	3.67	4.60	4.33
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	1.99	2.11	2.21	4.37	5.75	6.59	8.24	7.78	0.00	2.41	2.16	2.19	4.32	5.69	6.53	8.18	7.71
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-4.37	-6.48	-7.00	-5.85	-5.69	-5.64	-5.21	-5.58	0.00	-6.48	-6.76	-6.96	-5.64	-5.49	-5.42	-5.00	-5.36
Charleston, WV	-	Nonattainment	-	100	0.00	0.47	0.50	0.52	1.03	1.35	1.54	1.93	1.82	0.00	0.57	0.51	0.51	1.01	1.33	1.53	1.92	1.81
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	2.72	2.74	2.85	6.25	8.36	9.65	12.22	11.47	0.00	3.20	2.79	2.83	6.18	8.29	9.58	12.14	11.39
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.32	0.10	0.08	1.17	1.80	2.17	2.95	2.70	0.00	0.24	0.09	0.08	1.18	1.80	2.17	2.95	2.70
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-75.67	-113.58	-122.81	-98.52	-93.42	-91.05	-80.63	-88.12	0.00	-113.00	-118.59	-122.13	-94.78	-89.82	-87.26	-76.99	-84.26
Chico, CA	Subpart 1	-	100	-	0.00	0.46	0.49	0.51	1.01	1.33	1.52	1.91	1.80	0.00	0.56	0.50	0.51	1.00	1.31	1.51	1.89	1.78
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	3.40	3.61	3.78	7.48	9.83	11.27	14.10	13.30	0.00	4.13	3.69	3.75	7.39	9.72	11.16	13.99	13.19
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	4.43	4.70	4.92	9.74	12.79	14.66	18.35	17.30	0.00	5.37	4.80	4.88	9.61	12.66	14.53	18.20	17.16
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	2.99	3.18	3.32	6.58	8.65	9.91	12.40	11.69	0.00	3.63	3.24	3.30	6.50	8.55	9.82	12.30	11.60
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	11.33	11.57	12.06	25.81	34.40	39.64	50.05	47.04	0.00	13.45	11.78	11.95	25.51	34.06	39.31	49.70	46.71
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	1.26	1.34	1.40	2.77	3.64	4.17	5.22	4.92	0.00	1.53	1.36	1.39	2.73	3.60	4.13	5.18	4.88
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-32.88	-49.76	-53.83	-41.98	-39.06	-37.62	-32.19	-35.76	0.00	-49.36	-51.98	-53.54	-40.34	-37.48	-35.95	-30.60	-34.07
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-29.50	-45.50	-49.30	-35.90	-31.80	-29.61	-22.85	-26.70	0.00	-44.83	-47.58	-49.04	-34.39	-30.35	-28.08	-21.39	-25.14
Door Co, WI	Subpart 1	-	100	-	0.00	0.07	0.07	0.07	0.14	0.19	0.22	0.27	0.25	0.00	0.08	0.07	0.07	0.14	0.19	0.21	0.27	0.25
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Evansville, IN	-	Nonattainment	-	100	0.00	0.52	0.55	0.58	1.16	1.53	1.75	2.19	2.07	0.00	0.63	0.56	0.57	1.14	1.51	1.73	2.18	2.05
Greater Connecticut, CT	Moderate	-	100	-	0.00	2.84	3.01	3.15	6.24	8.20	9.40	11.76	11.09	0.00	3.44	3.08	3.13	6.16	8.11	9.31	11.67	11.00
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	1.38	1.47	1.54	3.04	4.00	4.58	5.73	5.40	0.00	1.68	1.50	1.52	3.00	3.95	4.54	5.69	5.36
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	1.39	1.48	1.55	3.06	4.02	4.61	5.77	5.44	0.00	1.69	1.51	1.53	3.02	3.98	4.57	5.72	5.40
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.00	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.04

**Table C-35
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Particulate Matter 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Hickory, NC	-	Nonattainment	-	100	0.00	0.30	0.32	0.34	0.67	0.88	1.00	1.26	1.18	0.00	0.37	0.33	0.33	0.66	0.87	0.99	1.25	1.17
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-268.80	-390.67	-421.31	-376.02	-379.92	-384.67	-375.85	-392.75	0.00	-393.23	-407.18	-418.90	-363.35	-367.60	-371.79	-363.41	-379.61
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-36.23	-52.35	-56.44	-51.29	-52.33	-53.27	-52.74	-54.79	0.00	-52.81	-54.55	-56.11	-49.59	-50.68	-51.55	-51.08	-53.04
Imperial Co, CA	Moderate	-	100	-	0.00	0.40	0.42	0.44	0.87	1.14	1.31	1.64	1.55	0.00	0.48	0.43	0.44	0.86	1.13	1.30	1.63	1.54
Indianapolis, IN	-	Nonattainment	-	100	0.00	2.80	2.97	3.10	6.15	8.08	9.26	11.59	10.93	0.00	3.39	3.03	3.08	6.07	7.99	9.18	11.50	10.84
Jamestown, NY	Subpart 1	-	100	-	0.00	0.27	0.28	0.30	0.59	0.77	0.89	1.11	1.04	0.00	0.32	0.29	0.29	0.58	0.76	0.88	1.10	1.04
Jefferson Co, NY	Moderate	-	100	-	0.00	0.21	0.23	0.24	0.47	0.62	0.71	0.89	0.83	0.00	0.26	0.23	0.24	0.46	0.61	0.70	0.88	0.83
Johnstown, PA	-	Nonattainment	-	100	0.00	0.18	0.19	0.20	0.40	0.53	0.61	0.76	0.72	0.00	0.22	0.20	0.20	0.40	0.52	0.60	0.75	0.71
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-0.76	-1.17	-1.27	-0.93	-0.83	-0.77	-0.60	-0.70	0.00	-1.16	-1.23	-1.27	-0.89	-0.79	-0.73	-0.56	-0.66
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	2.12	2.25	2.36	4.66	6.13	7.02	8.79	8.29	0.00	2.57	2.30	2.34	4.60	6.06	6.96	8.72	8.22
Lancaster, PA	-	Nonattainment	-	100	0.00	0.79	0.84	0.87	1.73	2.28	2.61	3.26	3.08	0.00	0.96	0.85	0.87	1.71	2.25	2.58	3.24	3.05
Las Vegas, NV	Subpart 1	-	100	-	0.00	2.73	2.89	3.03	6.03	7.93	9.09	11.38	10.73	0.00	3.31	2.95	3.00	5.95	7.84	9.01	11.29	10.65
Libby, MT	-	Nonattainment	-	100	0.00	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.00	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.04
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	0.01	0.00	0.00	0.03	0.04	0.05	0.08	0.07	0.00	0.00	0.00	0.00	0.03	0.04	0.05	0.08	0.07
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-105.20	-161.67	-175.12	-129.29	-115.69	-108.51	-85.71	-99.00	0.00	-159.50	-169.02	-174.19	-123.90	-110.54	-103.08	-80.52	-93.47
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-130.98	-189.03	-203.74	-185.95	-190.15	-193.84	-192.48	-199.70	0.00	-190.76	-196.94	-202.57	-179.84	-184.19	-187.62	-186.47	-193.36
Louisville, KY-IN	-	Nonattainment	-	100	0.00	1.84	1.95	2.04	4.05	5.32	6.09	7.62	7.19	0.00	2.23	1.99	2.03	3.99	5.26	6.04	7.57	7.13
Macon, GA	-	Nonattainment	-	100	0.00	0.35	0.37	0.38	0.76	1.00	1.14	1.43	1.35	0.00	0.42	0.37	0.38	0.75	0.99	1.13	1.42	1.34
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.17	0.19	0.19	0.38	0.50	0.58	0.72	0.68	0.00	0.21	0.19	0.19	0.38	0.50	0.57	0.72	0.68
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.21	0.22	0.23	0.46	0.60	0.69	0.86	0.81	0.00	0.25	0.23	0.23	0.45	0.59	0.68	0.86	0.81
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.55	0.59	0.62	1.22	1.60	1.84	2.30	2.17	0.00	0.67	0.60	0.61	1.20	1.58	1.82	2.28	2.15
Memphis, TN-AR	Moderate	-	100	-	0.00	-12.70	-18.92	-20.45	-16.82	-16.20	-15.95	-14.50	-15.66	0.00	-18.88	-19.75	-20.33	-16.20	-15.60	-15.32	-13.90	-15.01
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	3.11	3.30	3.45	6.83	8.98	10.29	12.88	12.14	0.00	3.77	3.37	3.42	6.75	8.88	10.19	12.78	12.05
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.27	0.28	0.30	0.59	0.77	0.89	1.11	1.05	0.00	0.33	0.29	0.30	0.58	0.77	0.88	1.10	1.04
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	6.49	-0.95	-1.92	30.21	48.19	59.00	81.66	74.17	0.00	2.87	-1.60	-2.00	30.42	48.28	59.14	81.74	74.32
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.25	0.26	0.27	0.54	0.71	0.82	1.02	0.96	0.00	0.30	0.26	0.27	0.53	0.70	0.81	1.02	0.96
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-69.59	-104.44	-112.92	-90.62	-85.94	-83.77	-74.21	-81.09	0.00	-103.90	-109.04	-112.30	-87.18	-82.63	-80.29	-70.87	-77.54
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	8.95	9.48	9.92	19.69	25.90	29.68	37.16	35.04	0.00	10.84	9.67	9.83	19.44	25.62	29.41	36.87	34.76
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	1.39	0.71	0.65	4.63	6.92	8.30	11.16	10.25	0.00	1.20	0.66	0.64	4.63	6.91	8.29	11.14	10.24
Poughkeepsie, NY	Moderate	-	100	-	0.00	2.46	2.61	2.73	5.40	7.09	8.13	10.17	9.59	0.00	2.98	2.66	2.70	5.33	7.01	8.05	10.09	9.51
Providence (All RI), RI	Moderate	-	100	-	0.00	1.73	1.83	1.92	3.79	4.98	5.71	7.15	6.74	0.00	2.09	1.87	1.90	3.74	4.93	5.66	7.09	6.69
Reading, PA	-	Nonattainment	-	100	0.00	0.58	0.61	0.64	1.27	1.66	1.91	2.38	2.25	0.00	0.70	0.62	0.63	1.25	1.64	1.89	2.37	2.23
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	1.12	1.19	1.24	2.46	3.23	3.70	4.63	4.37	0.00	1.36	1.21	1.23	2.43	3.20	3.67	4.60	4.34

**Table C-35
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Particulate Matter 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Rochester, NY	Subpart 1	-	100	-	0.00	2.32	2.46	2.57	5.09	6.69	7.67	9.59	9.05	0.00	2.81	2.51	2.55	5.03	6.62	7.59	9.52	8.97
Rome, GA	-	Nonattainment	-	100	0.00	0.21	0.22	0.23	0.45	0.60	0.69	0.86	0.81	0.00	0.25	0.22	0.23	0.45	0.59	0.68	0.85	0.80
Sacramento Metro, CA	Serious	-	50	-	0.00	-13.11	-20.75	-22.53	-14.88	-12.14	-10.62	-6.45	-8.56	0.00	-20.26	-21.73	-22.41	-14.18	-11.48	-9.92	-5.78	-7.85
San Diego, CA	Subpart 1	-	100	-	0.00	7.55	8.01	8.38	16.59	21.80	24.98	31.26	29.48	0.00	9.15	8.17	8.31	16.37	21.56	24.75	31.01	29.24
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-94.23	-140.69	-152.06	-124.19	-119.10	-116.91	-105.56	-114.33	0.00	-140.23	-146.86	-151.22	-119.56	-114.64	-112.23	-101.06	-109.56
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	7.23	7.30	7.59	16.63	22.25	25.68	32.50	30.52	0.00	8.53	7.42	7.52	16.44	22.04	25.47	32.28	30.31
Sheboygan, WI	Moderate	-	100	-	0.00	0.21	0.22	0.23	0.46	0.60	0.69	0.87	0.82	0.00	0.25	0.23	0.23	0.45	0.60	0.69	0.86	0.81
Springfield (Western MA), MA	Moderate	-	100	-	0.00	1.54	1.64	1.71	3.39	4.46	5.11	6.40	6.03	0.00	1.87	1.67	1.70	3.35	4.41	5.06	6.35	5.98
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-204.04	-295.61	-318.71	-287.33	-291.90	-296.48	-291.85	-303.96	0.00	-297.89	-308.04	-316.88	-277.76	-282.59	-286.75	-282.44	-294.03
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-0.20	-0.35	-0.39	-0.17	-0.07	-0.01	0.12	0.07	0.00	-0.33	-0.37	-0.38	-0.15	-0.06	0.00	0.13	0.08
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	1.47	1.53	1.60	3.27	4.32	4.97	6.24	5.87	0.00	1.76	1.56	1.59	3.23	4.28	4.92	6.19	5.83
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	9.62	10.21	10.68	21.15	27.80	31.85	39.86	37.59	0.00	11.67	10.42	10.59	20.88	27.49	31.56	39.55	37.29
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-51.56	-74.31	-80.09	-73.40	-75.23	-76.79	-76.47	-79.24	0.00	-75.03	-77.42	-79.63	-71.00	-72.89	-74.34	-74.11	-76.75
York, PA	-	Nonattainment	-	100	0.00	0.61	0.65	0.68	1.34	1.76	2.01	2.52	2.37	0.00	0.74	0.66	0.67	1.32	1.74	1.99	2.50	2.36

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/ancl3.html>. Accessed August 5, 2009.

Table C-36
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Particulate Matter 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	3.81	4.08	4.22	7.35	8.92	10.50	12.91	12.43	0.00	4.79	4.08	4.06	7.07	8.59	10.17	12.56	12.08
Allegan Co, MI	Subpart 1	-	100	-	0.00	0.44	0.48	0.49	0.86	1.04	1.22	1.50	1.45	0.00	0.56	0.48	0.47	0.82	1.00	1.19	1.46	1.41
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.54	0.57	0.59	1.03	1.25	1.48	1.81	1.75	0.00	0.67	0.57	0.57	0.99	1.21	1.43	1.77	1.70
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	20.32	21.72	22.49	39.13	47.52	55.93	68.78	66.20	0.00	25.52	21.75	21.65	37.65	45.76	54.20	66.90	64.38
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	9.02	9.64	9.98	17.37	21.09	24.82	30.53	29.38	0.00	11.33	9.66	9.61	16.71	20.31	24.06	29.69	28.57
Baton Rouge, LA	Moderate	-	100	-	0.00	-100.53	-145.49	-156.39	-143.35	-145.95	-148.70	-147.16	-151.86	0.00	-150.10	-149.46	-152.17	-135.16	-137.96	-140.36	-139.09	-143.37
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-110.89	-160.06	-171.99	-158.71	-162.03	-165.50	-164.55	-169.54	0.00	-165.30	-164.39	-167.33	-149.68	-153.20	-156.30	-155.64	-160.17
Birmingham, AL	-	Nonattainment	-	100	0.00	-3.57	-6.25	-6.83	-3.67	-2.67	-1.67	0.23	-0.43	0.00	-6.01	-6.49	-6.68	-3.36	-2.40	-1.38	0.48	-0.14
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	13.58	13.91	14.30	26.97	33.20	39.45	49.08	47.08	0.00	16.68	13.87	13.75	25.99	32.01	38.29	47.81	45.86
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	1.91	2.04	2.11	3.68	4.47	5.26	6.47	6.22	0.00	2.40	2.05	2.04	3.54	4.30	5.10	6.29	6.05
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	3.40	3.63	3.76	6.55	7.95	9.36	11.51	11.08	0.00	4.27	3.64	3.62	6.30	7.66	9.07	11.20	10.77
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-7.05	-10.47	-11.29	-9.71	-9.63	-9.55	-8.99	-9.44	0.00	-10.70	-10.78	-10.99	-9.13	-9.07	-8.97	-8.43	-8.85
Charleston, WV	-	Nonattainment	-	100	0.00	0.80	0.85	0.88	1.54	1.86	2.19	2.70	2.60	0.00	1.00	0.85	0.85	1.48	1.80	2.13	2.62	2.53
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	4.67	4.77	4.91	9.29	11.44	13.60	16.93	16.23	0.00	5.73	4.76	4.72	8.95	11.03	13.20	16.49	15.81
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	0.59	0.26	0.22	1.64	2.26	2.89	3.90	3.66	0.00	0.51	0.23	0.19	1.60	2.21	2.84	3.84	3.60
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-121.81	-183.13	-197.61	-164.66	-160.82	-157.15	-143.59	-152.43	0.00	-186.16	-188.61	-192.47	-154.57	-151.26	-147.09	-134.04	-142.23
Chico, CA	Subpart 1	-	100	-	0.00	0.79	0.84	0.87	1.51	1.84	2.16	2.66	2.56	0.00	0.99	0.84	0.84	1.46	1.77	2.10	2.59	2.49
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	5.81	6.22	6.44	11.20	13.60	16.01	19.68	18.94	0.00	7.30	6.23	6.20	10.78	13.10	15.51	19.15	18.42
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	7.57	8.09	8.37	14.57	17.70	20.83	25.61	24.65	0.00	9.51	8.10	8.06	14.02	17.04	20.19	24.91	23.98
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	5.11	5.47	5.66	9.85	11.96	14.08	17.31	16.66	0.00	6.42	5.48	5.45	9.48	11.52	13.64	16.84	16.20
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	19.45	20.08	20.68	38.40	47.16	55.94	69.46	66.66	0.00	23.99	20.05	19.89	37.01	45.46	54.29	67.64	64.91
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	2.15	2.30	2.38	4.14	5.03	5.92	7.28	7.01	0.00	2.70	2.30	2.29	3.99	4.85	5.74	7.09	6.82
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-52.84	-80.12	-86.53	-70.52	-68.15	-65.86	-58.81	-62.96	0.00	-81.18	-82.57	-84.30	-66.13	-64.02	-61.50	-54.68	-58.54
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-47.20	-73.04	-79.03	-61.07	-57.47	-53.93	-45.13	-49.51	0.00	-73.44	-75.37	-77.04	-57.12	-53.81	-50.05	-41.50	-45.58
Door Co, WI	Subpart 1	-	100	-	0.00	0.11	0.12	0.12	0.21	0.26	0.31	0.38	0.36	0.00	0.14	0.12	0.12	0.21	0.25	0.30	0.37	0.35
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Evansville, IN	-	Nonattainment	-	100	0.00	0.90	0.95	0.98	1.73	2.11	2.48	3.06	2.94	0.00	1.12	0.95	0.95	1.67	2.03	2.41	2.98	2.86
Greater Connecticut, CT	Moderate	-	100	-	0.00	4.85	5.19	5.37	9.34	11.34	13.35	16.42	15.81	0.00	6.09	5.19	5.17	8.99	10.92	12.94	15.97	15.37
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	2.36	2.53	2.62	4.55	5.53	6.51	8.00	7.70	0.00	2.97	2.53	2.52	4.38	5.32	6.31	7.78	7.49
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	2.38	2.54	2.63	4.58	5.56	6.55	8.05	7.75	0.00	2.99	2.55	2.54	4.41	5.36	6.35	7.83	7.54
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	0.02	0.02	0.02	0.03	0.04	0.05	0.06	0.05	0.00	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.05

**Table C-36
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Particulate Matter 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Hickory, NC	-	Nonattainment	-	100	0.00	0.52	0.55	0.57	1.00	1.21	1.43	1.75	1.69	0.00	0.65	0.55	0.55	0.96	1.17	1.38	1.71	1.64
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-435.55	-633.22	-680.97	-617.28	-625.63	-634.58	-623.02	-644.72	0.00	-652.13	-650.68	-662.66	-581.72	-591.05	-598.49	-588.17	-607.95
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-58.77	-84.94	-91.29	-83.95	-85.59	-87.31	-86.61	-89.30	0.00	-87.68	-87.25	-88.82	-79.16	-80.91	-82.44	-81.89	-84.34
Imperial Co, CA	Moderate	-	100	-	0.00	0.68	0.72	0.75	1.30	1.58	1.86	2.29	2.21	0.00	0.85	0.72	0.72	1.25	1.52	1.81	2.23	2.14
Indianapolis, IN	-	Nonattainment	-	100	0.00	4.78	5.10	5.28	9.20	11.18	13.16	16.18	15.57	0.00	6.00	5.11	5.09	8.86	10.76	12.75	15.74	15.15
Jamestown, NY	Subpart 1	-	100	-	0.00	0.46	0.49	0.51	0.88	1.07	1.26	1.55	1.49	0.00	0.57	0.49	0.49	0.85	1.03	1.22	1.50	1.45
Jefferson Co, NY	Moderate	-	100	-	0.00	0.37	0.39	0.40	0.70	0.85	1.00	1.24	1.19	0.00	0.46	0.39	0.39	0.68	0.82	0.97	1.20	1.16
Johnstown, PA	-	Nonattainment	-	100	0.00	0.31	0.34	0.35	0.60	0.73	0.86	1.06	1.02	0.00	0.39	0.34	0.33	0.58	0.71	0.84	1.03	0.99
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-1.22	-1.89	-2.04	-1.58	-1.49	-1.40	-1.18	-1.29	0.00	-1.90	-1.95	-1.99	-1.48	-1.40	-1.30	-1.08	-1.19
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	3.62	3.87	4.01	6.98	8.48	9.98	12.27	11.81	0.00	4.55	3.88	3.86	6.72	8.16	9.67	11.93	11.48
Lancaster, PA	-	Nonattainment	-	100	0.00	1.35	1.44	1.49	2.59	3.15	3.71	4.56	4.39	0.00	1.69	1.44	1.43	2.49	3.03	3.59	4.43	4.27
Las Vegas, NV	Subpart 1	-	100	-	0.00	4.67	4.98	5.16	9.02	10.96	12.91	15.88	15.28	0.00	5.86	4.99	4.96	8.68	10.55	12.51	15.45	14.87
Libby, MT	-	Nonattainment	-	100	0.00	0.02	0.02	0.02	0.03	0.04	0.05	0.06	0.05	0.00	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.05
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	0.01	0.00	0.00	0.04	0.05	0.07	0.10	0.09	0.00	0.01	0.00	0.00	0.04	0.05	0.07	0.10	0.09
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-168.49	-259.68	-280.89	-219.35	-207.54	-195.96	-166.30	-181.46	0.00	-261.49	-267.90	-273.78	-205.25	-194.44	-182.08	-153.30	-167.42
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-212.53	-306.76	-329.63	-304.17	-310.54	-317.19	-315.38	-324.94	0.00	-316.82	-315.05	-320.71	-286.87	-293.62	-299.57	-298.30	-306.97
Louisville, KY-IN	-	Nonattainment	-	100	0.00	3.14	3.36	3.48	6.06	7.35	8.66	10.64	10.25	0.00	3.95	3.37	3.35	5.83	7.08	8.39	10.35	9.96
Macon, GA	-	Nonattainment	-	100	0.00	0.59	0.63	0.65	1.14	1.38	1.62	2.00	1.92	0.00	0.74	0.63	0.63	1.09	1.33	1.57	1.94	1.87
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	0.30	0.32	0.33	0.57	0.70	0.82	1.01	0.97	0.00	0.37	0.32	0.32	0.55	0.67	0.80	0.98	0.95
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	0.36	0.38	0.39	0.68	0.83	0.98	1.20	1.16	0.00	0.45	0.38	0.38	0.66	0.80	0.95	1.17	1.13
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	0.95	1.01	1.05	1.83	2.22	2.61	3.21	3.09	0.00	1.19	1.01	1.01	1.76	2.13	2.53	3.12	3.00
Memphis, TN-AR	Moderate	-	100	-	0.00	-20.47	-30.55	-32.94	-27.99	-27.58	-27.20	-25.33	-26.70	0.00	-31.14	-31.44	-32.07	-26.30	-25.97	-25.51	-23.71	-24.99
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	5.31	5.68	5.88	10.23	12.42	14.62	17.98	17.30	0.00	6.67	5.69	5.66	9.84	11.96	14.17	17.49	16.83
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	0.46	0.49	0.51	0.88	1.07	1.26	1.55	1.49	0.00	0.58	0.49	0.49	0.85	1.03	1.22	1.51	1.45
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	12.84	1.27	-0.57	41.19	59.22	77.27	106.71	99.36	0.00	8.33	0.06	-1.07	40.55	57.88	76.11	105.12	98.05
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	0.42	0.45	0.46	0.81	0.98	1.16	1.43	1.37	0.00	0.53	0.45	0.45	0.78	0.95	1.12	1.39	1.34
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-112.01	-168.38	-181.70	-151.44	-147.93	-144.57	-132.12	-140.25	0.00	-171.18	-173.43	-176.98	-142.16	-139.13	-135.32	-123.34	-130.86
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	15.29	16.32	16.89	29.47	35.81	42.16	51.86	49.91	0.00	19.19	16.35	16.27	28.36	34.48	40.86	50.45	48.54
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	2.56	1.51	1.38	6.54	8.84	11.15	14.86	13.98	0.00	2.44	1.39	1.27	6.38	8.60	10.93	14.59	13.73
Poughkeepsie, NY	Moderate	-	100	-	0.00	4.19	4.48	4.64	8.08	9.81	11.55	14.20	13.66	0.00	5.27	4.49	4.47	7.77	9.45	11.19	13.81	13.29
Providence (All RI), RI	Moderate	-	100	-	0.00	2.95	3.15	3.26	5.68	6.89	8.12	9.98	9.61	0.00	3.70	3.16	3.14	5.46	6.64	7.87	9.71	9.34
Reading, PA	-	Nonattainment	-	100	0.00	0.98	1.05	1.09	1.89	2.30	2.71	3.33	3.20	0.00	1.24	1.05	1.05	1.82	2.22	2.62	3.24	3.12

**Table C-36
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Particulate Matter 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	1.91	2.04	2.12	3.68	4.47	5.26	6.47	6.23	0.00	2.40	2.05	2.04	3.54	4.31	5.10	6.29	6.06
Rochester, NY	Subpart 1	-	100	-	0.00	3.96	4.23	4.38	7.62	9.25	10.89	13.39	12.89	0.00	4.97	4.24	4.22	7.33	8.91	10.55	13.03	12.54
Rome, GA	-	Nonattainment	-	100	0.00	0.35	0.38	0.39	0.68	0.83	0.97	1.20	1.15	0.00	0.44	0.38	0.38	0.66	0.80	0.94	1.16	1.12
Sacramento Metro, CA	Serious	-	50	-	0.00	-20.86	-33.18	-36.00	-25.80	-23.29	-20.81	-15.38	-17.73	0.00	-33.02	-34.30	-35.11	-24.03	-21.69	-19.09	-13.80	-16.00
San Diego, CA	Subpart 1	-	100	-	0.00	12.89	13.78	14.27	24.83	30.15	35.49	43.64	42.00	0.00	16.19	13.80	13.74	23.89	29.03	34.39	42.45	40.85
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-151.84	-227.03	-244.85	-206.90	-203.39	-200.09	-185.32	-195.77	0.00	-231.28	-233.74	-238.45	-194.35	-191.45	-187.55	-173.37	-183.03
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	12.43	12.70	13.06	24.70	30.43	36.17	45.03	43.18	0.00	15.24	12.66	12.55	23.81	29.34	35.11	43.86	42.06
Sheboygan, WI	Moderate	-	100	-	0.00	0.36	0.38	0.40	0.69	0.84	0.98	1.21	1.17	0.00	0.45	0.38	0.38	0.66	0.81	0.95	1.18	1.13
Springfield (Western MA), MA	Moderate	-	100	-	0.00	2.64	2.82	2.92	5.08	6.17	7.26	8.93	8.60	0.00	3.31	2.83	2.81	4.89	5.94	7.04	8.69	8.36
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-330.82	-479.40	-515.37	-470.93	-478.88	-487.29	-481.19	-496.95	0.00	-494.34	-492.50	-501.46	-443.96	-452.58	-459.86	-454.67	-469.00
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-0.32	-0.56	-0.61	-0.32	-0.23	-0.13	0.04	-0.02	0.00	-0.53	-0.58	-0.60	-0.29	-0.20	-0.11	0.06	0.01
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	2.51	2.65	2.73	4.88	5.96	7.04	8.69	8.35	0.00	3.13	2.65	2.63	4.70	5.74	6.82	8.45	8.13
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	16.44	17.57	18.19	31.66	38.45	45.25	55.65	53.56	0.00	20.65	17.60	17.52	30.47	37.02	43.86	54.13	52.09
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-83.69	-120.62	-129.60	-119.99	-122.67	-125.46	-125.04	-128.73	0.00	-124.65	-123.87	-126.08	-113.19	-116.01	-118.52	-118.31	-121.65
York, PA	-	Nonattainment	-	100	0.00	1.04	1.11	1.15	2.00	2.43	2.86	3.52	3.38	0.00	1.30	1.11	1.11	1.92	2.34	2.77	3.42	3.29

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

**Table C-37
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Sulfur Dioxide 2016																								
Nonattainment Area	Status b/		General Conformity Threshold c/		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)										
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9		
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB		
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-1.78	-2.65	-3.15	-4.01	-5.58	-5.00	-5.85	-5.95	0.00	-1.78	-2.65	-3.15	-4.01	-5.58	-5.00	-5.85	-5.95		
Allegan Co, MI	Subpart 1	-	100	-	0.00	-0.19	-0.29	-0.34	-0.44	-0.61	-0.55	-0.64	-0.65	0.00	-0.19	-0.29	-0.34	-0.44	-0.61	-0.55	-0.64	-0.65		
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	-0.20	-0.30	-0.35	-0.45	-0.62	-0.56	-0.65	-0.66	0.00	-0.20	-0.30	-0.35	-0.45	-0.62	-0.56	-0.65	-0.66		
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	-8.90	-13.25	-15.73	-20.01	-27.90	-24.98	-29.20	-29.71	0.00	-8.90	-13.25	-15.73	-20.01	-27.90	-24.98	-29.20	-29.71		
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	-4.10	-6.11	-7.26	-9.23	-12.87	-11.52	-13.47	-13.70	0.00	-4.10	-6.11	-7.26	-9.23	-12.87	-11.52	-13.47	-13.70		
Baton Rouge, LA	Moderate	-	100	-	0.00	-22.90	-33.77	-38.73	-32.03	-37.03	-34.85	-36.15	-40.32	0.00	-22.90	-33.77	-38.73	-32.03	-37.03	-34.85	-36.15	-40.32		
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-151.13	-222.76	-255.16	-206.23	-235.12	-222.18	-228.25	-256.47	0.00	-151.13	-222.76	-255.16	-206.23	-235.12	-222.18	-228.25	-256.47		
Birmingham, AL	-	Nonattainment	-	100	0.00	-1.50	-2.24	-2.66	-3.34	-4.64	-4.16	-4.85	-4.94	0.00	-1.50	-2.24	-2.66	-3.34	-4.64	-4.16	-4.85	-4.94		
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	-7.49	-11.16	-13.22	-16.54	-22.93	-20.56	-23.96	-24.43	0.00	-7.49	-11.16	-13.22	-16.54	-22.93	-20.56	-23.96	-24.43		
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	-0.87	-1.29	-1.53	-1.95	-2.72	-2.43	-2.85	-2.89	0.00	-0.87	-1.29	-1.53	-1.95	-2.72	-2.43	-2.85	-2.89		
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	-1.65	-2.46	-2.92	-3.72	-5.18	-4.64	-5.43	-5.52	0.00	-1.65	-2.46	-2.92	-3.72	-5.18	-4.64	-5.43	-5.52		
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-2.45	-3.62	-4.17	-3.72	-4.48	-4.17	-4.45	-4.85	0.00	-2.45	-3.62	-4.17	-3.72	-4.48	-4.17	-4.45	-4.85		
Charleston, WV	-	Nonattainment	-	100	0.00	-0.41	-0.61	-0.73	-0.93	-1.29	-1.16	-1.35	-1.38	0.00	-0.41	-0.61	-0.73	-0.93	-1.29	-1.16	-1.35	-1.38		
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	-2.34	-3.48	-4.13	-5.26	-7.33	-6.56	-7.67	-7.81	0.00	-2.34	-3.48	-4.13	-5.26	-7.33	-6.56	-7.67	-7.81		
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-0.77	-1.14	-1.36	-1.72	-2.40	-2.15	-2.51	-2.56	0.00	-0.77	-1.14	-1.36	-1.72	-2.40	-2.15	-2.51	-2.56		
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-208.08	-306.84	-352.02	-291.85	-337.84	-317.86	-330.10	-367.79	0.00	-208.08	-306.84	-352.02	-291.85	-337.84	-317.86	-330.10	-367.79		
Chico, CA	Subpart 1	-	100	-	0.00	-0.32	-0.47	-0.56	-0.71	-1.00	-0.89	-1.04	-1.06	0.00	-0.32	-0.47	-0.56	-0.71	-1.00	-0.89	-1.04	-1.06		
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	-2.72	-4.06	-4.82	-6.12	-8.54	-7.65	-8.94	-9.09	0.00	-2.72	-4.06	-4.82	-6.12	-8.54	-7.65	-8.94	-9.09		
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	-3.72	-5.54	-6.57	-8.36	-11.65	-10.43	-12.20	-12.41	0.00	-3.72	-5.54	-6.57	-8.36	-11.65	-10.43	-12.20	-12.41		
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	-2.27	-3.39	-4.02	-5.11	-7.13	-6.38	-7.46	-7.59	0.00	-2.27	-3.39	-4.02	-5.11	-7.13	-6.38	-7.46	-7.59		
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	-10.12	-15.07	-17.83	-21.92	-30.22	-27.14	-31.52	-32.23	0.00	-10.12	-15.07	-17.83	-21.92	-30.22	-27.14	-31.52	-32.23		
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	-1.08	-1.61	-1.92	-2.44	-3.40	-3.04	-3.56	-3.62	0.00	-1.08	-1.61	-1.92	-2.44	-3.40	-3.04	-3.56	-3.62		
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-26.83	-39.62	-45.67	-40.72	-49.08	-45.66	-48.75	-53.16	0.00	-26.83	-39.62	-45.67	-40.72	-49.08	-45.66	-48.75	-53.16		
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-16.57	-24.53	-28.51	-28.42	-36.14	-33.14	-36.65	-38.90	0.00	-16.57	-24.53	-28.51	-28.42	-36.14	-33.14	-36.65	-38.90		
Door Co, WI	Subpart 1	-	100	-	0.00	-0.05	-0.07	-0.09	-0.11	-0.16	-0.14	-0.16	-0.17	0.00	-0.05	-0.07	-0.09	-0.11	-0.16	-0.14	-0.16	-0.17		
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01		
Evansville, IN	-	Nonattainment	-	100	0.00	-0.44	-0.65	-0.77	-0.99	-1.37	-1.23	-1.44	-1.46	0.00	-0.44	-0.65	-0.77	-0.99	-1.37	-1.23	-1.44	-1.46		
Greater Connecticut, CT	Moderate	-	100	-	0.00	-2.37	-3.54	-4.20	-5.34	-7.45	-6.67	-7.79	-7.93	0.00	-2.37	-3.54	-4.20	-5.34	-7.45	-6.67	-7.79	-7.93		
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	-1.13	-1.68	-1.99	-2.54	-3.53	-3.16	-3.70	-3.76	0.00	-1.13	-1.68	-1.99	-2.54	-3.53	-3.16	-3.70	-3.76		
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	-1.08	-1.61	-1.91	-2.43	-3.38	-3.03	-3.54	-3.60	0.00	-1.08	-1.61	-1.91	-2.43	-3.38	-3.03	-3.54	-3.60		
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02		
Hickory, NC	-	Nonattainment	-	100	0.00	-0.25	-0.38	-0.45	-0.57	-0.79	-0.71	-0.83	-0.85	0.00	-0.25	-0.38	-0.45	-0.57	-0.79	-0.71	-0.83	-0.85		

**Table C-37
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Sulfur Dioxide 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)									
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	
Houston-Galveston-Brazoria, TX	Severe	15	-	100	-	0.00	-96.33	-142.10	-163.22	-137.88	-161.35	-151.34	-158.37	-175.41	0.00	-96.33	-142.10	-163.22	-137.88	-161.35	-151.34	-158.37	-175.41
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-5.36	-7.91	-9.09	-7.72	-9.07	-8.50	-8.91	-9.85	0.00	-5.36	-7.91	-9.09	-7.72	-9.07	-8.50	-8.91	-9.85	-9.85
Imperial Co, CA	Moderate	-	-	100	0.00	-0.28	-0.42	-0.50	-0.64	-0.89	-0.79	-0.93	-0.94	0.00	-0.28	-0.42	-0.50	-0.64	-0.89	-0.79	-0.93	-0.94	-0.94
Indianapolis, IN	-	Nonattainment	-	100	0.00	-2.17	-3.24	-3.84	-4.89	-6.81	-6.10	-7.13	-7.25	0.00	-2.17	-3.24	-3.84	-4.89	-6.81	-6.10	-7.13	-7.25	-7.25
Jamestown, NY	Subpart 1	-	-	100	0.00	-0.22	-0.33	-0.39	-0.50	-0.70	-0.62	-0.73	-0.74	0.00	-0.22	-0.33	-0.39	-0.50	-0.70	-0.62	-0.73	-0.74	-0.74
Jefferson Co, NY	Moderate	-	-	100	0.00	-0.18	-0.26	-0.31	-0.39	-0.55	-0.49	-0.58	-0.59	0.00	-0.18	-0.26	-0.31	-0.39	-0.55	-0.49	-0.58	-0.59	-0.59
Johnstown, PA	-	Nonattainment	-	100	0.00	-0.17	-0.26	-0.30	-0.39	-0.54	-0.48	-0.56	-0.57	0.00	-0.17	-0.26	-0.30	-0.39	-0.54	-0.48	-0.56	-0.57	-0.57
Kern Co (Eastern Kern), CA	Subpart 1	-	-	100	0.00	-2.18	-3.21	-3.69	-3.09	-3.60	-3.38	-3.53	-3.92	0.00	-2.18	-3.21	-3.69	-3.09	-3.60	-3.38	-3.53	-3.92	-3.92
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-1.58	-2.36	-2.80	-3.56	-4.96	-4.44	-5.19	-5.28	0.00	-1.58	-2.36	-2.80	-3.56	-4.96	-4.44	-5.19	-5.28	-5.28
Lancaster, PA	-	Nonattainment	-	100	0.00	-0.62	-0.93	-1.10	-1.40	-1.95	-1.75	-2.04	-2.08	0.00	-0.62	-0.93	-1.10	-1.40	-1.95	-1.75	-2.04	-2.08	-2.08
Las Vegas, NV	Subpart 1	-	-	100	0.00	-1.91	-2.84	-3.37	-4.29	-5.98	-5.35	-6.26	-6.36	0.00	-1.91	-2.84	-3.37	-4.29	-5.98	-5.35	-6.26	-6.36	-6.36
Libby, MT	-	Nonattainment	-	100	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.02	-0.03	-0.03	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.02	-0.03	-0.03	-0.03
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.02	-0.03	-0.04	-0.05	-0.07	-0.06	-0.07	-0.07	0.00	-0.02	-0.03	-0.04	-0.05	-0.07	-0.06	-0.07	-0.07	-0.07
Los Angeles South Coast Air Basin, CA	Severe	17	Nonattainment	25	100	0.00	-89.66	-132.48	-153.01	-140.36	-171.66	-159.05	-171.49	-185.60	0.00	-89.66	-132.48	-153.01	-140.36	-171.66	-159.05	-171.49	-185.60
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	-	100	0.00	-70.01	-103.20	-118.25	-96.15	-110.02	-103.86	-106.98	-119.96	0.00	-70.01	-103.20	-118.25	-96.15	-110.02	-103.86	-106.98	-119.96	-119.96
Louisville, KY-IN	-	Nonattainment	-	100	0.00	-1.54	-2.30	-2.73	-3.48	-4.85	-4.34	-5.07	-5.16	0.00	-1.54	-2.30	-2.73	-3.48	-4.85	-4.34	-5.07	-5.16	-5.16
Macon, GA	-	Nonattainment	-	100	0.00	-0.30	-0.44	-0.53	-0.67	-0.93	-0.84	-0.98	-1.00	0.00	-0.30	-0.44	-0.53	-0.67	-0.93	-0.84	-0.98	-1.00	-1.00
Manitowoc Co, WI	Subpart 1	-	-	100	0.00	-0.15	-0.22	-0.26	-0.33	-0.46	-0.42	-0.49	-0.50	0.00	-0.15	-0.22	-0.26	-0.33	-0.46	-0.42	-0.49	-0.50	-0.50
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	-	100	0.00	-0.14	-0.21	-0.25	-0.32	-0.44	-0.40	-0.46	-0.47	0.00	-0.14	-0.21	-0.25	-0.32	-0.44	-0.40	-0.46	-0.47	-0.47
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	-0.44	-0.66	-0.78	-1.00	-1.39	-1.25	-1.46	-1.48	0.00	-0.44	-0.66	-0.78	-1.00	-1.39	-1.25	-1.46	-1.48	-1.48
Memphis, TN-AR	Moderate	-	-	100	0.00	-2.63	-3.90	-4.55	-4.85	-6.35	-5.78	-6.50	-6.81	0.00	-2.63	-3.90	-4.55	-4.85	-6.35	-5.78	-6.50	-6.81	-6.81
Milwaukee-Racine, WI	Moderate	-	-	100	0.00	-2.50	-3.72	-4.41	-5.61	-7.83	-7.01	-8.19	-8.33	0.00	-2.50	-3.72	-4.41	-5.61	-7.83	-7.01	-8.19	-8.33	-8.33
Nevada (Western Part), CA	Subpart 1	-	-	100	0.00	-0.17	-0.25	-0.30	-0.38	-0.53	-0.47	-0.55	-0.56	0.00	-0.17	-0.25	-0.30	-0.38	-0.53	-0.47	-0.55	-0.56	-0.56
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-29.10	-43.25	-50.91	-59.27	-80.21	-72.35	-83.13	-85.70	0.00	-29.10	-43.25	-50.91	-59.27	-80.21	-72.35	-83.13	-85.70	-85.70
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	-0.21	-0.32	-0.38	-0.48	-0.67	-0.60	-0.70	-0.71	0.00	-0.21	-0.32	-0.38	-0.48	-0.67	-0.60	-0.70	-0.71	-0.71
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-58.13	-85.82	-98.87	-87.35	-104.78	-97.60	-103.88	-113.56	0.00	-58.13	-85.82	-98.87	-87.35	-104.78	-97.60	-103.88	-113.56	-113.56
Phoenix-Mesa, AZ	Subpart 1	-	-	100	0.00	-5.70	-8.49	-10.07	-12.81	-17.86	-15.99	-18.70	-19.02	0.00	-5.70	-8.49	-10.07	-12.81	-17.86	-15.99	-18.70	-19.02	-19.02
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-3.70	-5.50	-6.49	-7.63	-10.35	-9.33	-10.74	-11.06	0.00	-3.70	-5.50	-6.49	-7.63	-10.35	-9.33	-10.74	-11.06	-11.06
Poughkeepsie, NY	Moderate	-	-	100	0.00	-1.81	-2.70	-3.20	-4.07	-5.68	-5.09	-5.95	-6.05	0.00	-1.81	-2.70	-3.20	-4.07	-5.68	-5.09	-5.95	-6.05	-6.05
Providence (All RI), RI	Moderate	-	-	100	0.00	-1.36	-2.03	-2.41	-3.07	-4.28	-3.83	-4.48	-4.56	0.00	-1.36	-2.03	-2.41	-3.07	-4.28	-3.83	-4.48	-4.56	-4.56
Reading, PA	-	Nonattainment	-	100	0.00	-0.47	-0.70	-0.84	-1.06	-1.48	-1.33	-1.55	-1.58	0.00	-0.47	-0.70	-0.84	-1.06	-1.48	-1.33	-1.55	-1.58	-1.58
Riverside Co, CA (Coachella Valley)	Serious	-	-	50	0.00	-0.76	-1.13	-1.34	-1.70	-2.38	-2.13	-2.49	-2.53	0.00	-0.76	-1.13	-1.34	-1.70	-2.38	-2.13	-2.49	-2.53	-2.53
Rochester, NY	Subpart 1	-	-	100	0.00	-1.89	-2.82	-3.34	-4.25	-5.93	-5.31	-6.21	-6.32	0.00	-1.89	-2.82	-3.34	-4.25	-5.93	-5.31	-6.21	-6.32	-6.32
Rome, GA	-	Nonattainment	-	100	0.00	-0.17	-0.25	-0.30	-0.38	-0.53	-0.48	-0.56	-0.57	0.00	-0.17	-0.25	-0.30	-0.38	-0.53	-0.48	-0.56	-0.57	-0.57
Sacramento Metro, CA	Serious	-	-	50	0.00	-95.10	-140.22	-160.80	-132.42	-152.68	-143.82	-148.94	-166.30	0.00	-95.10	-140.22	-160.80	-132.42	-152.68	-143.82	-148.94	-166.30	-166.30

Table C-37
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Sulfur Dioxide 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Diego, CA	Subpart 1	-	100	-	0.00	-5.35	-7.98	-9.47	-12.05	-16.79	-15.04	-17.58	-17.89	0.00	-5.35	-7.98	-9.47	-12.05	-16.79	-15.04	-17.58	-17.89
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-203.96	-300.78	-345.10	-286.61	-332.11	-312.38	-324.64	-361.51	0.00	-203.96	-300.78	-345.10	-286.61	-332.11	-312.38	-324.64	-361.51
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	-7.87	-11.69	-13.74	-15.84	-21.35	-19.28	-22.10	-22.82	0.00	-7.87	-11.69	-13.74	-15.84	-21.35	-19.28	-22.10	-22.82
Sheboygan, WI	Moderate	-	100	-	0.00	-0.17	-0.25	-0.29	-0.37	-0.52	-0.47	-0.54	-0.55	0.00	-0.17	-0.25	-0.29	-0.37	-0.52	-0.47	-0.54	-0.55
Springfield (Western MA), MA	Moderate	-	100	-	0.00	-1.27	-1.89	-2.24	-2.85	-3.98	-3.56	-4.17	-4.24	0.00	-1.27	-1.89	-2.24	-2.85	-3.98	-3.56	-4.17	-4.24
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-169.85	-250.40	-287.05	-234.99	-269.99	-254.57	-262.97	-294.22	0.00	-169.85	-250.40	-287.05	-234.99	-269.99	-254.57	-262.97	-294.22
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-1.57	-2.31	-2.65	-2.26	-2.66	-2.49	-2.61	-2.89	0.00	-1.57	-2.31	-2.65	-2.26	-2.66	-2.49	-2.61	-2.89
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	-1.18	-1.76	-2.08	-2.57	-3.55	-3.18	-3.70	-3.78	0.00	-1.18	-1.76	-2.08	-2.57	-3.55	-3.18	-3.70	-3.78
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	-7.30	-10.88	-12.92	-16.43	-22.90	-20.51	-23.97	-24.39	0.00	-7.30	-10.88	-12.92	-16.43	-22.90	-20.51	-23.97	-24.39
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-101.12	-149.04	-170.71	-137.85	-157.07	-148.45	-152.45	-171.35	0.00	-101.12	-149.04	-170.71	-137.85	-157.07	-148.45	-152.45	-171.35
York, PA	-	Nonattainment	-	100	0.00	-0.48	-0.71	-0.85	-1.08	-1.50	-1.35	-1.57	-1.60	0.00	-0.48	-0.71	-0.85	-1.08	-1.50	-1.35	-1.57	-1.60

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/andl3.html>. Accessed August 5, 2009.

Table C-38
Alternative CAFE Standards
Emission Changes a / by Nonattainment Area

Sulfur Dioxide 2020																						
Nonattainment Area	Status <u>b</u> /		General Conformity Threshold <u>c</u> /		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-4.43	-6.45	-7.26	-9.38	-12.26	-11.72	-13.48	-13.21	0.00	-5.28	-6.59	-7.29	-9.32	-12.18	-11.64	-13.39	-13.13
Allegan Co, MI	Subpart 1	-	100	-	0.00	-0.49	-0.71	-0.80	-1.04	-1.36	-1.30	-1.49	-1.46	0.00	-0.59	-0.73	-0.81	-1.03	-1.35	-1.29	-1.48	-1.45
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	-0.52	-0.76	-0.86	-1.11	-1.44	-1.38	-1.59	-1.56	0.00	-0.62	-0.78	-0.86	-1.10	-1.44	-1.37	-1.58	-1.55
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	-22.75	-33.14	-37.33	-48.22	-63.03	-60.24	-69.30	-67.92	0.00	-27.16	-33.89	-37.48	-47.90	-62.62	-59.84	-68.84	-67.48
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	-10.27	-14.96	-16.85	-21.76	-28.44	-27.19	-31.27	-30.65	0.00	-12.26	-15.29	-16.91	-21.62	-28.26	-27.01	-31.07	-30.46
Baton Rouge, LA	Moderate	-	100	-	0.00	-57.56	-83.43	-91.77	-81.96	-87.35	-87.10	-88.24	-93.62	0.00	-69.31	-85.45	-92.20	-81.44	-86.85	-86.58	-87.73	-93.08
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-379.62	-550.09	-604.46	-529.64	-556.53	-556.71	-558.33	-596.20	0.00	-457.23	-563.44	-607.35	-526.33	-553.39	-553.40	-555.17	-592.82
Birmingham, AL	-	Nonattainment	-	100	0.00	-3.70	-5.38	-6.06	-7.74	-10.08	-9.64	-11.06	-10.86	0.00	-4.41	-5.50	-6.08	-7.69	-10.01	-9.58	-10.99	-10.79
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	-18.62	-27.12	-30.52	-38.81	-50.41	-48.24	-55.30	-54.32	0.00	-22.24	-27.74	-30.64	-38.56	-50.09	-47.92	-54.93	-53.97
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	-2.16	-3.15	-3.55	-4.58	-5.99	-5.73	-6.59	-6.46	0.00	-2.58	-3.22	-3.56	-4.55	-5.95	-5.69	-6.54	-6.42
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	-4.05	-5.91	-6.65	-8.59	-11.23	-10.73	-12.35	-12.10	0.00	-4.84	-6.04	-6.68	-8.54	-11.16	-10.66	-12.27	-12.02
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-6.12	-8.88	-9.80	-9.28	-10.31	-10.19	-10.62	-11.06	0.00	-7.36	-9.09	-9.84	-9.22	-10.25	-10.12	-10.55	-11.00
Charleston, WV	-	Nonattainment	-	100	0.00	-0.99	-1.45	-1.63	-2.11	-2.75	-2.63	-3.03	-2.97	0.00	-1.19	-1.48	-1.64	-2.09	-2.74	-2.62	-3.01	-2.95
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	-5.93	-8.63	-9.73	-12.56	-16.42	-15.69	-18.05	-17.69	0.00	-7.08	-8.83	-9.76	-12.48	-16.31	-15.59	-17.93	-17.58
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-1.91	-2.79	-3.14	-4.05	-5.29	-5.06	-5.82	-5.70	0.00	-2.28	-2.85	-3.15	-4.02	-5.26	-5.02	-5.78	-5.67
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-522.46	-757.25	-832.99	-745.04	-794.96	-792.47	-803.45	-852.01	0.00	-629.04	-775.58	-836.95	-740.37	-790.42	-787.71	-798.83	-847.13
Chico, CA	Subpart 1	-	100	-	0.00	-0.82	-1.19	-1.34	-1.73	-2.26	-2.16	-2.49	-2.44	0.00	-0.97	-1.22	-1.34	-1.72	-2.25	-2.15	-2.47	-2.42
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	-6.77	-9.87	-11.11	-14.36	-18.76	-17.94	-20.63	-20.22	0.00	-8.09	-10.09	-11.16	-14.26	-18.64	-17.82	-20.49	-20.09
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	-9.07	-13.21	-14.88	-19.21	-25.12	-24.01	-27.61	-27.07	0.00	-10.82	-13.50	-14.93	-19.09	-24.95	-23.85	-27.43	-26.89
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	-5.69	-8.29	-9.34	-12.06	-15.77	-15.07	-17.34	-16.99	0.00	-6.79	-8.48	-9.38	-11.98	-15.67	-14.97	-17.22	-16.88
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	-25.81	-37.58	-42.23	-52.95	-68.34	-65.48	-74.80	-73.63	0.00	-30.84	-38.43	-42.40	-52.60	-67.91	-65.05	-74.31	-73.16
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	-2.62	-3.82	-4.30	-5.56	-7.27	-6.95	-7.99	-7.83	0.00	-3.13	-3.91	-4.32	-5.52	-7.22	-6.90	-7.94	-7.78
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-67.67	-98.15	-108.34	-103.06	-114.78	-113.35	-118.34	-123.17	0.00	-81.38	-100.51	-108.84	-102.41	-114.11	-112.65	-117.63	-122.45
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-41.18	-59.79	-66.35	-69.05	-81.26	-79.31	-85.79	-87.34	0.00	-49.43	-61.21	-66.64	-68.61	-80.77	-78.81	-85.26	-86.80
Door Co, WI	Subpart 1	-	100	-	0.00	-0.13	-0.18	-0.21	-0.27	-0.35	-0.33	-0.38	-0.38	0.00	-0.15	-0.19	-0.21	-0.26	-0.35	-0.33	-0.38	-0.37
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.01	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.01
Evansville, IN	-	Nonattainment	-	100	0.00	-1.08	-1.57	-1.77	-2.29	-2.99	-2.86	-3.29	-3.22	0.00	-1.29	-1.61	-1.78	-2.27	-2.97	-2.84	-3.26	-3.20
Greater Connecticut, CT	Moderate	-	100	-	0.00	-5.80	-8.45	-9.52	-12.30	-16.08	-15.37	-17.68	-17.33	0.00	-6.93	-8.65	-9.56	-12.22	-15.98	-15.27	-17.56	-17.22
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	-2.82	-4.11	-4.62	-5.97	-7.81	-7.46	-8.58	-8.41	0.00	-3.36	-4.20	-4.64	-5.93	-7.76	-7.41	-8.53	-8.36
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	-2.70	-3.94	-4.44	-5.73	-7.49	-7.16	-8.24	-8.07	0.00	-3.23	-4.03	-4.45	-5.69	-7.44	-7.11	-8.18	-8.02
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	-0.02	-0.03	-0.03	-0.04	-0.05	-0.05	-0.06	-0.06	0.00	-0.02	-0.03	-0.03	-0.04	-0.05	-0.05	-0.06	-0.05
Hickory, NC	-	Nonattainment	-	100	0.00	-0.63	-0.92	-1.04	-1.34	-1.75	-1.68	-1.93	-1.89	0.00	-0.76	-0.94	-1.04	-1.33	-1.74	-1.66	-1.92	-1.88

**Table C-38
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Sulfur Dioxide 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-242.15	-351.03	-386.46	-351.19	-379.04	-376.89	-385.18	-406.38	0.00	-291.46	-359.50	-388.29	-348.99	-376.86	-374.61	-382.94	-404.04
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-13.42	-19.46	-21.43	-19.53	-21.12	-20.99	-21.48	-22.64	0.00	-16.16	-19.93	-21.53	-19.40	-20.99	-20.86	-21.35	-22.51
Imperial Co, CA	Moderate	-	100	-	0.00	-0.73	-1.06	-1.19	-1.54	-2.01	-1.92	-2.21	-2.17	0.00	-0.87	-1.08	-1.20	-1.53	-2.00	-1.91	-2.20	-2.15
Indianapolis, IN	-	Nonattainment	-	100	0.00	-5.44	-7.92	-8.93	-11.53	-15.07	-14.40	-16.57	-16.24	0.00	-6.49	-8.10	-8.96	-11.45	-14.97	-14.31	-16.46	-16.13
Jamestown, NY	Subpart 1	-	100	-	0.00	-0.55	-0.79	-0.89	-1.16	-1.51	-1.44	-1.66	-1.63	0.00	-0.65	-0.81	-0.90	-1.15	-1.50	-1.43	-1.65	-1.62
Jefferson Co, NY	Moderate	-	100	-	0.00	-0.43	-0.63	-0.71	-0.92	-1.20	-1.14	-1.32	-1.29	0.00	-0.52	-0.64	-0.71	-0.91	-1.19	-1.14	-1.31	-1.28
Johnstown, PA	-	Nonattainment	-	100	0.00	-0.41	-0.60	-0.67	-0.87	-1.14	-1.09	-1.25	-1.23	0.00	-0.49	-0.61	-0.68	-0.86	-1.13	-1.08	-1.24	-1.22
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-5.48	-7.94	-8.74	-7.89	-8.49	-8.45	-8.61	-9.10	0.00	-6.59	-8.13	-8.78	-7.84	-8.44	-8.39	-8.56	-9.04
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-4.01	-5.84	-6.58	-8.49	-11.10	-10.61	-12.21	-11.97	0.00	-4.78	-5.97	-6.60	-8.44	-11.03	-10.54	-12.13	-11.89
Lancaster, PA	-	Nonattainment	-	100	0.00	-1.56	-2.27	-2.55	-3.30	-4.31	-4.12	-4.74	-4.64	0.00	-1.86	-2.32	-2.56	-3.28	-4.28	-4.09	-4.71	-4.61
Las Vegas, NV	Subpart 1	-	100	-	0.00	-5.03	-7.33	-8.25	-10.66	-13.94	-13.32	-15.32	-15.02	0.00	-6.01	-7.49	-8.29	-10.59	-13.85	-13.23	-15.22	-14.92
Libby, MT	-	Nonattainment	-	100	0.00	-0.02	-0.03	-0.03	-0.04	-0.06	-0.06	-0.06	-0.06	0.00	-0.03	-0.03	-0.03	-0.04	-0.06	-0.06	-0.06	-0.06
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.05	-0.08	-0.09	-0.11	-0.15	-0.14	-0.16	-0.16	0.00	-0.06	-0.08	-0.09	-0.11	-0.15	-0.14	-0.16	-0.16
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-225.27	-326.83	-361.19	-351.37	-397.03	-390.85	-411.97	-426.24	0.00	-270.79	-334.63	-362.84	-349.15	-394.68	-388.42	-409.48	-423.70
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-175.88	-254.87	-280.14	-246.69	-260.19	-260.06	-261.51	-278.77	0.00	-211.82	-261.06	-281.48	-245.15	-258.72	-258.50	-260.03	-277.19
Louisville, KY-IN	-	Nonattainment	-	100	0.00	-3.78	-5.51	-6.21	-8.02	-10.48	-10.01	-11.52	-11.29	0.00	-4.52	-5.63	-6.23	-7.96	-10.41	-9.95	-11.44	-11.22
Macon, GA	-	Nonattainment	-	100	0.00	-0.74	-1.07	-1.21	-1.56	-2.04	-1.95	-2.24	-2.19	0.00	-0.88	-1.10	-1.21	-1.55	-2.02	-1.93	-2.22	-2.18
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	-0.36	-0.53	-0.59	-0.76	-1.00	-0.96	-1.10	-1.08	0.00	-0.43	-0.54	-0.59	-0.76	-0.99	-0.95	-1.09	-1.07
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	-0.36	-0.53	-0.60	-0.77	-1.01	-0.96	-1.11	-1.09	0.00	-0.43	-0.54	-0.60	-0.77	-1.00	-0.96	-1.10	-1.08
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	-1.11	-1.61	-1.82	-2.35	-3.07	-2.93	-3.38	-3.31	0.00	-1.32	-1.65	-1.83	-2.33	-3.05	-2.92	-3.35	-3.29
Memphis, TN-AR	Moderate	-	100	-	0.00	-6.55	-9.52	-10.60	-11.70	-14.21	-13.78	-15.20	-15.29	0.00	-7.85	-9.74	-10.65	-11.62	-14.12	-13.69	-15.10	-15.19
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	-6.17	-8.98	-10.12	-13.07	-17.09	-16.33	-18.79	-18.41	0.00	-7.36	-9.19	-10.16	-12.98	-16.98	-16.22	-18.66	-18.29
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	-0.44	-0.64	-0.73	-0.94	-1.23	-1.17	-1.35	-1.32	0.00	-0.53	-0.66	-0.73	-0.93	-1.22	-1.16	-1.34	-1.31
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-71.97	-104.71	-117.25	-139.81	-176.47	-169.81	-191.55	-190.01	0.00	-86.11	-107.12	-117.73	-138.90	-175.35	-168.70	-190.30	-188.80
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	-0.51	-0.75	-0.84	-1.09	-1.42	-1.36	-1.56	-1.53	0.00	-0.61	-0.76	-0.85	-1.08	-1.41	-1.35	-1.55	-1.52
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-145.57	-211.11	-232.88	-219.30	-242.59	-239.91	-249.34	-260.28	0.00	-175.10	-216.18	-233.96	-217.92	-241.18	-238.44	-247.86	-258.75
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	-15.19	-22.13	-24.92	-32.19	-42.08	-40.22	-46.27	-45.35	0.00	-18.13	-22.63	-25.02	-31.98	-41.81	-39.95	-45.96	-45.06
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-9.07	-13.20	-14.79	-17.77	-22.52	-21.65	-24.48	-24.25	0.00	-10.85	-13.50	-14.85	-17.66	-22.38	-21.51	-24.32	-24.09
Poughkeepsie, NY	Moderate	-	100	-	0.00	-4.56	-6.64	-7.48	-9.66	-12.63	-12.07	-13.89	-13.61	0.00	-5.44	-6.79	-7.51	-9.60	-12.55	-11.99	-13.80	-13.53
Providence (All RI), RI	Moderate	-	100	-	0.00	-3.39	-4.94	-5.56	-7.18	-9.39	-8.98	-10.33	-10.12	0.00	-4.05	-5.05	-5.58	-7.14	-9.33	-8.92	-10.26	-10.05
Reading, PA	-	Nonattainment	-	100	0.00	-1.16	-1.70	-1.91	-2.47	-3.22	-3.08	-3.54	-3.47	0.00	-1.39	-1.73	-1.92	-2.45	-3.20	-3.06	-3.52	-3.45
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	-1.97	-2.86	-3.22	-4.16	-5.44	-5.20	-5.99	-5.87	0.00	-2.35	-2.93	-3.24	-4.14	-5.41	-5.17	-5.95	-5.83
Rochester, NY	Subpart 1	-	100	-	0.00	-4.67	-6.81	-7.67	-9.90	-12.94	-12.37	-14.23	-13.95	0.00	-5.58	-6.96	-7.70	-9.84	-12.86	-12.29	-14.14	-13.86
Rome, GA	-	Nonattainment	-	100	0.00	-0.42	-0.61	-0.69	-0.89	-1.17	-1.11	-1.28	-1.26	0.00	-0.50	-0.63	-0.69	-0.89	-1.16	-1.11	-1.27	-1.25
Sacramento Metro, CA	Serious	-	50	-	0.00	-239.19	-346.66	-381.24	-339.39	-360.88	-360.03	-364.13	-386.74	0.00	-288.01	-355.05	-383.05	-337.26	-358.83	-357.87	-362.05	-384.53

**Table C-38
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Sulfur Dioxide 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Diego, CA	Subpart 1	-	100	-	0.00	-13.75	-20.03	-22.56	-29.14	-38.09	-36.41	-41.88	-41.05	0.00	-16.41	-20.48	-22.65	-28.95	-37.85	-36.17	-41.60	-40.78
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-512.44	-742.74	-817.10	-732.08	-782.11	-779.44	-790.94	-838.27	0.00	-616.96	-760.72	-820.98	-727.50	-777.64	-774.76	-786.39	-833.46
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	-20.06	-29.19	-32.67	-38.71	-48.71	-46.91	-52.82	-52.45	0.00	-24.01	-29.86	-32.80	-38.46	-48.41	-46.60	-52.47	-52.12
Sheboygan, WI	Moderate	-	100	-	0.00	-0.41	-0.60	-0.67	-0.87	-1.14	-1.09	-1.25	-1.22	0.00	-0.49	-0.61	-0.68	-0.86	-1.13	-1.08	-1.24	-1.22
Springfield (Western MA), MA	Moderate	-	100	-	0.00	-3.12	-4.54	-5.11	-6.60	-8.63	-8.25	-9.49	-9.30	0.00	-3.72	-4.64	-5.13	-6.56	-8.58	-8.19	-9.43	-9.24
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-426.40	-617.95	-679.38	-601.37	-636.75	-635.86	-641.18	-682.29	0.00	-513.48	-632.93	-682.62	-597.61	-633.13	-632.05	-637.52	-678.40
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-3.91	-5.67	-6.25	-5.70	-6.17	-6.13	-6.28	-6.62	0.00	-4.71	-5.81	-6.28	-5.66	-6.14	-6.09	-6.24	-6.58
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	-3.02	-4.40	-4.94	-6.22	-8.03	-7.70	-8.80	-8.66	0.00	-3.61	-4.50	-4.96	-6.18	-7.98	-7.64	-8.74	-8.60
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	-18.40	-26.80	-30.19	-38.99	-50.97	-48.71	-56.04	-54.93	0.00	-21.96	-27.40	-30.31	-38.74	-50.64	-48.39	-55.67	-54.57
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-253.99	-368.05	-404.41	-354.08	-371.84	-372.01	-372.93	-398.33	0.00	-305.92	-376.98	-406.35	-351.87	-369.74	-369.79	-370.82	-396.08
York, PA	-	Nonattainment	-	100	0.00	-1.19	-1.73	-1.95	-2.52	-3.29	-3.14	-3.62	-3.54	0.00	-1.42	-1.77	-1.96	-2.50	-3.27	-3.12	-3.59	-3.52

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-39
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Sulfur Dioxide 2030																						
Nonattainment Area	Status b/		General Conformity Threshold c/		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-9.38	-13.47	-14.78	-19.21	-24.22	-23.96	-27.32	-26.30	0.00	-13.39	-13.98	-14.66	-18.54	-23.36	-23.11	-26.34	-25.37
Allegan Co, MI	Subpart 1	-	100	-	0.00	-1.09	-1.57	-1.72	-2.24	-2.82	-2.79	-3.18	-3.06	0.00	-1.56	-1.63	-1.71	-2.16	-2.72	-2.69	-3.07	-2.96
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	-1.32	-1.89	-2.08	-2.70	-3.40	-3.37	-3.84	-3.70	0.00	-1.88	-1.96	-2.06	-2.61	-3.28	-3.25	-3.70	-3.57
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	-49.97	-71.76	-78.75	-102.37	-129.03	-127.64	-145.53	-140.12	0.00	-71.34	-74.46	-78.12	-98.77	-124.45	-123.10	-140.32	-135.14
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	-22.18	-31.85	-34.95	-45.43	-57.26	-56.65	-64.59	-62.19	0.00	-31.66	-33.05	-34.67	-43.84	-55.23	-54.63	-62.28	-59.98
Baton Rouge, LA	Moderate	-	100	-	0.00	-123.15	-177.25	-191.08	-177.43	-183.50	-187.29	-188.00	-194.00	0.00	-178.99	-184.63	-189.97	-171.64	-177.79	-181.35	-182.20	-187.92
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-812.43	-1,169.47	-1,259.80	-1,150.42	-1,174.44	-1,201.38	-1,194.41	-1,239.21	0.00	-1,181.65	-1,218.31	-1,252.55	-1,113.05	-1,138.31	-1,163.60	-1,158.09	-1,200.78
Birmingham, AL	-	Nonattainment	-	100	0.00	-7.58	-10.89	-11.94	-15.37	-19.28	-19.09	-21.71	-20.93	0.00	-10.83	-11.30	-11.85	-14.83	-18.60	-18.41	-20.93	-20.19
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	-39.41	-56.59	-62.05	-79.50	-99.54	-98.56	-111.96	-108.01	0.00	-56.31	-58.74	-61.56	-76.71	-96.02	-95.07	-107.97	-104.19
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	-4.70	-6.75	-7.40	-9.62	-12.13	-12.00	-13.68	-13.17	0.00	-6.71	-7.00	-7.34	-9.29	-11.70	-11.57	-13.19	-12.70
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	-8.36	-12.01	-13.18	-17.13	-21.59	-21.36	-24.35	-23.45	0.00	-11.94	-12.46	-13.07	-16.53	-20.83	-20.60	-23.48	-22.61
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-12.98	-18.68	-20.18	-19.69	-21.12	-21.42	-22.07	-22.45	0.00	-18.82	-19.44	-20.06	-19.04	-20.44	-20.73	-21.37	-21.72
Charleston, WV	-	Nonattainment	-	100	0.00	-1.96	-2.82	-3.09	-4.02	-5.06	-5.01	-5.71	-5.50	0.00	-2.80	-2.92	-3.06	-3.88	-4.88	-4.83	-5.51	-5.30
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	-12.95	-18.60	-20.41	-26.53	-33.44	-33.08	-37.71	-36.31	0.00	-18.49	-19.30	-20.24	-25.60	-32.25	-31.90	-36.36	-35.02
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-3.94	-5.66	-6.21	-8.07	-10.17	-10.06	-11.47	-11.04	0.00	-5.63	-5.87	-6.16	-7.79	-9.81	-9.70	-11.06	-10.65
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-1,118.50	-1,609.87	-1,735.61	-1,614.14	-1,671.37	-1,705.54	-1,713.52	-1,767.36	0.00	-1,625.52	-1,676.82	-1,725.45	-1,561.46	-1,619.38	-1,651.40	-1,660.67	-1,711.95
Chico, CA	Subpart 1	-	100	-	0.00	-1.93	-2.78	-3.05	-3.96	-4.99	-4.94	-5.63	-5.42	0.00	-2.76	-2.88	-3.02	-3.82	-4.81	-4.76	-5.43	-5.23
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	-14.30	-20.53	-22.54	-29.29	-36.92	-36.53	-41.65	-40.10	0.00	-20.42	-21.31	-22.35	-28.27	-35.61	-35.23	-40.16	-38.67
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	-18.61	-26.72	-29.33	-38.12	-48.05	-47.53	-54.19	-52.18	0.00	-26.57	-27.73	-29.09	-36.78	-46.35	-45.84	-52.26	-50.33
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	-12.58	-18.06	-19.82	-25.76	-32.47	-32.12	-36.63	-35.26	0.00	-17.96	-18.74	-19.66	-24.86	-31.32	-30.98	-35.32	-34.01
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	-57.73	-82.91	-90.84	-114.98	-143.17	-141.88	-160.65	-155.24	0.00	-82.56	-86.07	-90.13	-110.97	-138.13	-136.87	-154.94	-149.77
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	-5.29	-7.60	-8.34	-10.84	-13.66	-13.52	-15.41	-14.84	0.00	-7.56	-7.89	-8.27	-10.46	-13.18	-13.04	-14.86	-14.31
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-145.85	-209.85	-226.83	-223.33	-241.02	-244.24	-252.73	-256.43	0.00	-211.42	-218.46	-225.43	-215.93	-233.29	-236.28	-244.63	-248.14
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-87.45	-125.76	-136.45	-145.08	-164.60	-165.45	-177.02	-176.35	0.00	-126.29	-130.82	-135.55	-140.19	-159.13	-159.90	-171.11	-170.46
Door Co, WI	Subpart 1	-	100	-	0.00	-0.27	-0.39	-0.43	-0.56	-0.71	-0.70	-0.80	-0.77	0.00	-0.39	-0.41	-0.43	-0.54	-0.68	-0.68	-0.77	-0.74
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	0.00	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03
Evansville, IN	-	Nonattainment	-	100	0.00	-2.24	-3.21	-3.53	-4.58	-5.78	-5.72	-6.52	-6.28	0.00	-3.20	-3.33	-3.50	-4.42	-5.57	-5.51	-6.28	-6.05
Greater Connecticut, CT	Moderate	-	100	-	0.00	-11.93	-17.13	-18.80	-24.44	-30.80	-30.47	-34.74	-33.45	0.00	-17.03	-17.78	-18.65	-23.58	-29.71	-29.39	-33.50	-32.26
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	-5.81	-8.35	-9.16	-11.91	-15.01	-14.85	-16.93	-16.30	0.00	-8.30	-8.66	-9.09	-11.49	-14.48	-14.32	-16.32	-15.72
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	-5.85	-8.40	-9.22	-11.99	-15.11	-14.95	-17.04	-16.41	0.00	-8.35	-8.72	-9.15	-11.57	-14.57	-14.42	-16.43	-15.83
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	-0.04	-0.06	-0.06	-0.08	-0.10	-0.10	-0.12	-0.11	0.00	-0.06	-0.06	-0.06	-0.08	-0.10	-0.10	-0.11	-0.11
Hickory, NC	-	Nonattainment	-	100	0.00	-1.27	-1.83	-2.01	-2.61	-3.29	-3.25	-3.71	-3.57	0.00	-1.82	-1.90	-1.99	-2.52	-3.17	-3.14	-3.58	-3.45

Table C-39
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Sulfur Dioxide 2030																							
Nonattainment Area	Status b/		General Conformity Threshold c/		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)									
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	
Houston-Galveston-Brazoria, TX	Severe	15	-	100	-	0.00	-518.78	-746.63	-805.46	-759.91	-795.40	-810.16	-820.38	-842.45	0.00	-753.47	-777.57	-800.68	-735.01	-770.45	-784.27	-794.81	-815.82
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-28.58	-41.14	-44.38	-41.88	-43.84	-44.65	-45.21	-46.43	0.00	-41.52	-42.84	-44.12	-40.50	-42.46	-43.22	-43.80	-44.96	
Imperial Co, CA	Moderate	-	-	100	0.00	-1.66	-2.39	-2.62	-3.41	-4.30	-4.25	-4.85	-4.67	0.00	-2.38	-2.48	-2.60	-3.29	-4.15	-4.10	-4.67	-4.50	
Indianapolis, IN	-	Nonattainment	-	100	0.00	-11.76	-16.89	-18.54	-24.10	-30.38	-30.05	-34.26	-32.99	0.00	-16.80	-17.53	-18.39	-23.25	-29.30	-28.98	-33.03	-31.81	
Jamestown, NY	Subpart 1	-	-	100	0.00	-1.12	-1.61	-1.77	-2.30	-2.90	-2.87	-3.27	-3.15	0.00	-1.60	-1.67	-1.76	-2.22	-2.80	-2.77	-3.15	-3.04	
Jefferson Co, NY	Moderate	-	-	100	0.00	-0.90	-1.29	-1.41	-1.84	-2.32	-2.29	-2.61	-2.52	0.00	-1.28	-1.34	-1.40	-1.77	-2.24	-2.21	-2.52	-2.43	
Johnstown, PA	-	Nonattainment	-	100	0.00	-0.77	-1.11	-1.22	-1.58	-1.99	-1.97	-2.25	-2.16	0.00	-1.10	-1.15	-1.21	-1.52	-1.92	-1.90	-2.17	-2.09	
Kern Co (Eastern Kern), CA	Subpart 1	-	-	100	0.00	-11.79	-16.96	-18.30	-17.21	-17.97	-18.31	-18.51	-19.03	0.00	-17.12	-17.67	-18.19	-16.65	-17.41	-17.73	-17.94	-18.43	
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-8.91	-12.80	-14.05	-18.26	-23.01	-22.77	-25.96	-24.99	0.00	-12.72	-13.28	-13.93	-17.62	-22.20	-21.96	-25.03	-24.10	
Lancaster, PA	-	Nonattainment	-	100	0.00	-3.31	-4.75	-5.22	-6.78	-8.55	-8.46	-9.64	-9.28	0.00	-4.73	-4.93	-5.18	-6.54	-8.25	-8.16	-9.30	-8.95	
Las Vegas, NV	Subpart 1	-	-	100	0.00	-11.58	-16.62	-18.24	-23.72	-29.89	-29.57	-33.71	-32.46	0.00	-16.53	-17.25	-18.10	-22.88	-28.83	-28.52	-32.51	-31.31	
Libby, MT	-	Nonattainment	-	100	0.00	-0.04	-0.06	-0.06	-0.08	-0.11	-0.10	-0.12	-0.12	0.00	-0.06	-0.06	-0.06	-0.08	-0.10	-0.10	-0.12	-0.11	
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.11	-0.15	-0.17	-0.22	-0.27	-0.27	-0.31	-0.30	0.00	-0.15	-0.16	-0.16	-0.21	-0.26	-0.26	-0.30	-0.29	
Los Angeles South Coast Air Basin, CA	Severe	17	Nonattainment	25	100	0.00	-485.04	-697.79	-754.95	-757.96	-828.98	-838.21	-875.29	-883.65	0.00	-702.45	-726.28	-750.21	-732.74	-802.12	-810.67	-846.91	-854.82
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	-	100	0.00	-376.73	-542.27	-584.28	-536.09	-549.33	-561.57	-559.87	-579.96	0.00	-547.82	-564.89	-580.90	-518.66	-532.38	-543.87	-542.78	-561.92	
Louisville, KY-IN	-	Nonattainment	-	100	0.00	-7.73	-11.10	-12.19	-15.84	-19.97	-19.75	-22.52	-21.68	0.00	-11.04	-11.52	-12.09	-15.29	-19.26	-19.05	-21.72	-20.91	
Macon, GA	-	Nonattainment	-	100	0.00	-1.45	-2.08	-2.28	-2.97	-3.74	-3.70	-4.22	-4.06	0.00	-2.07	-2.16	-2.27	-2.87	-3.61	-3.57	-4.07	-3.92	
Manitowoc Co, WI	Subpart 1	-	-	100	0.00	-0.73	-1.05	-1.16	-1.50	-1.89	-1.87	-2.14	-2.06	0.00	-1.05	-1.09	-1.15	-1.45	-1.83	-1.81	-2.06	-1.98	
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	-	100	0.00	-0.87	-1.26	-1.38	-1.79	-2.26	-2.23	-2.55	-2.45	0.00	-1.25	-1.30	-1.37	-1.73	-2.18	-2.15	-2.45	-2.36	
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	-2.33	-3.35	-3.67	-4.77	-6.02	-5.95	-6.79	-6.54	0.00	-3.33	-3.47	-3.64	-4.61	-5.80	-5.74	-6.54	-6.30	
Memphis, TN-AR	Moderate	-	-	100	0.00	-13.57	-19.50	-21.21	-23.71	-27.70	-27.71	-30.20	-29.79	0.00	-19.54	-20.27	-21.07	-22.90	-26.76	-26.77	-29.17	-28.77	
Milwaukee-Racine, WI	Moderate	-	-	100	0.00	-13.06	-18.76	-20.58	-26.76	-33.73	-33.36	-38.04	-36.62	0.00	-18.65	-19.46	-20.42	-25.82	-32.53	-32.18	-36.68	-35.32	
Nevada (Western Part), CA	Subpart 1	-	-	100	0.00	-1.13	-1.62	-1.78	-2.31	-2.91	-2.88	-3.28	-3.16	0.00	-1.61	-1.68	-1.76	-2.23	-2.81	-2.78	-3.16	-3.05	
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-151.73	-218.01	-238.16	-287.03	-349.03	-347.10	-387.64	-377.35	0.00	-217.63	-226.45	-236.38	-277.10	-336.91	-334.99	-374.07	-364.21	
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	-1.04	-1.50	-1.64	-2.13	-2.69	-2.66	-3.03	-2.92	0.00	-1.49	-1.55	-1.63	-2.06	-2.59	-2.57	-2.92	-2.82	
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-310.20	-446.35	-482.18	-468.68	-501.30	-508.74	-523.14	-532.64	0.00	-449.92	-464.72	-479.24	-453.20	-485.31	-492.26	-506.51	-515.54	
Phoenix-Mesa, AZ	Subpart 1	-	-	100	0.00	-37.75	-54.20	-59.48	-77.32	-97.46	-96.41	-109.92	-105.84	0.00	-53.89	-56.24	-59.00	-74.61	-94.00	-92.98	-105.99	-102.08	
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-18.68	-26.83	-29.32	-35.55	-43.35	-43.09	-48.21	-46.89	0.00	-26.78	-27.87	-29.10	-34.32	-41.84	-41.59	-46.52	-45.25	
Poughkeepsie, NY	Moderate	-	-	100	0.00	-10.31	-14.81	-16.25	-21.13	-26.63	-26.34	-30.04	-28.92	0.00	-14.73	-15.37	-16.12	-20.39	-25.69	-25.41	-28.96	-27.89	
Providence (All RI), RI	Moderate	-	-	100	0.00	-7.25	-10.41	-11.43	-14.85	-18.72	-18.52	-21.12	-20.33	0.00	-10.35	-10.80	-11.33	-14.33	-18.06	-17.86	-20.36	-19.61	
Reading, PA	-	Nonattainment	-	100	0.00	-2.42	-3.47	-3.81	-4.96	-6.25	-6.18	-7.04	-6.78	0.00	-3.45	-3.60	-3.78	-4.78	-6.02	-5.96	-6.79	-6.54	
Riverside Co, CA (Coachella Valley)	Serious	-	-	50	0.00	-4.70	-6.75	-7.41	-9.63	-12.14	-12.01	-13.69	-13.18	0.00	-6.71	-7.01	-7.35	-9.29	-11.71	-11.58	-13.20	-12.71	
Rochester, NY	Subpart 1	-	-	100	0.00	-9.73	-13.97	-15.33	-19.93	-25.12	-24.85	-28.33	-27.28	0.00	-13.89	-14.50	-15.21	-19.23	-24.23	-23.97	-27.32	-26.31	
Rome, GA	-	Nonattainment	-	100	0.00	-0.87	-1.25	-1.37	-1.78	-2.25	-2.22	-2.53	-2.44	0.00	-1.24	-1.30	-1.36	-1.72	-2.17	-2.14	-2.44	-2.35	
Sacramento Metro, CA	Serious	-	-	50	0.00	-514.28	-740.22	-797.95	-740.35	-765.20	-781.09	-783.70	-808.93	0.00	-747.49	-771.02	-793.29	-716.20	-741.44	-756.33	-759.57	-783.60	

Table C-39
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Sulfur Dioxide 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Diego, CA	Subpart 1	-	100	-	0.00	-31.70	-45.52	-49.96	-64.95	-81.86	-80.98	-92.33	-88.90	0.00	-45.26	-47.24	-49.56	-62.67	-78.96	-78.10	-89.03	-85.74
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-1,098.60	-1,581.22	-1,704.88	-1,588.87	-1,647.80	-1,681.03	-1,690.86	-1,742.86	0.00	-1,596.47	-1,646.95	-1,694.88	-1,536.97	-1,596.49	-1,627.62	-1,638.63	-1,688.15
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	-45.68	-65.63	-71.70	-86.44	-105.13	-104.54	-116.76	-113.66	0.00	-65.51	-68.17	-71.16	-83.45	-101.48	-100.90	-112.67	-109.70
Sheboygan, WI	Moderate	-	100	-	0.00	-0.88	-1.26	-1.39	-1.80	-2.27	-2.25	-2.56	-2.47	0.00	-1.26	-1.31	-1.38	-1.74	-2.19	-2.17	-2.47	-2.38
Springfield (Western MA), MA	Moderate	-	100	-	0.00	-6.49	-9.32	-10.22	-13.29	-16.75	-16.57	-18.90	-18.19	0.00	-9.26	-9.67	-10.14	-12.83	-16.16	-15.98	-18.22	-17.55
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-911.56	-1,312.10	-1,413.97	-1,302.23	-1,338.29	-1,367.42	-1,366.23	-1,413.55	0.00	-1,325.34	-1,366.79	-1,405.77	-1,259.84	-1,296.91	-1,324.23	-1,324.41	-1,369.48
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-8.31	-11.96	-12.90	-12.18	-12.75	-12.99	-13.16	-13.51	0.00	-12.07	-12.46	-12.83	-11.78	-12.35	-12.57	-12.75	-13.08
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	-6.96	-10.00	-10.96	-13.92	-17.36	-17.20	-19.49	-18.83	0.00	-9.95	-10.38	-10.87	-13.43	-16.75	-16.59	-18.80	-18.16
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	-40.43	-58.05	-63.71	-82.82	-104.39	-103.27	-117.74	-113.36	0.00	-57.72	-60.24	-63.20	-79.92	-100.69	-99.60	-113.53	-109.34
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-543.57	-782.45	-842.86	-769.15	-784.78	-802.86	-797.87	-827.99	0.00	-790.62	-815.13	-838.02	-744.17	-760.65	-777.62	-773.63	-802.32
York, PA	-	Nonattainment	-	100	0.00	-2.55	-3.67	-4.03	-5.23	-6.60	-6.52	-7.44	-7.16	0.00	-3.65	-3.81	-3.99	-5.05	-6.36	-6.29	-7.17	-6.91

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/andl3.html>. Accessed August 5, 2009.

Table C-40
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Sulfur Dioxide 2050																						
Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-15.29	-21.87	-23.89	-31.05	-38.84	-38.68	-44.01	-42.26	0.00	-22.27	-22.36	-23.18	-29.15	-36.42	-36.28	-41.26	-39.62
Allegan Co, MI	Subpart 1	-	100	-	0.00	-1.78	-2.55	-2.78	-3.62	-4.53	-4.51	-5.13	-4.92	0.00	-2.60	-2.61	-2.70	-3.40	-4.24	-4.23	-4.81	-4.62
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	-2.15	-3.08	-3.36	-4.37	-5.46	-5.44	-6.19	-5.94	0.00	-3.13	-3.14	-3.26	-4.10	-5.12	-5.10	-5.80	-5.57
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	-81.46	-116.54	-127.29	-165.43	-206.91	-206.08	-234.49	-225.12	0.00	-118.67	-119.13	-123.48	-155.28	-194.01	-193.28	-219.81	-211.08
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	-36.15	-51.72	-56.49	-73.42	-91.83	-91.46	-104.07	-99.91	0.00	-52.67	-52.87	-54.80	-68.92	-86.11	-85.78	-97.55	-93.68
Baton Rouge, LA	Moderate	-	100	-	0.00	-199.94	-287.77	-309.26	-289.76	-298.61	-305.47	-306.62	-314.57	0.00	-297.43	-295.47	-300.84	-273.32	-282.34	-288.56	-290.09	-297.27
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-1,318.85	-1,898.62	-2,039.04	-1,879.95	-1,913.24	-1,960.89	-1,949.98	-2,010.77	0.00	-1,963.52	-1,949.77	-1,983.75	-1,773.76	-1,810.06	-1,853.28	-1,846.23	-1,901.29
Birmingham, AL	-	Nonattainment	-	100	0.00	-12.36	-17.68	-19.30	-24.84	-30.93	-30.82	-34.98	-33.63	0.00	-18.02	-18.08	-18.73	-23.32	-29.01	-28.91	-32.80	-31.54
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	-64.23	-91.91	-100.31	-128.52	-159.70	-159.19	-180.46	-173.58	0.00	-93.67	-93.98	-97.33	-120.66	-149.78	-149.33	-169.20	-162.79
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	-7.66	-10.96	-11.97	-15.55	-19.45	-19.37	-22.04	-21.16	0.00	-11.16	-11.20	-11.61	-14.60	-18.24	-18.17	-20.66	-19.84
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	-13.63	-19.50	-21.30	-27.68	-34.63	-34.49	-39.24	-37.67	0.00	-19.86	-19.94	-20.66	-25.99	-32.47	-32.34	-36.78	-35.32
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-21.08	-30.32	-32.65	-32.10	-34.27	-34.87	-35.90	-36.33	0.00	-31.28	-31.12	-31.75	-30.25	-32.35	-32.90	-33.90	-34.28
Charleston, WV	-	Nonattainment	-	100	0.00	-3.20	-4.57	-4.99	-6.49	-8.12	-8.08	-9.20	-8.83	0.00	-4.66	-4.67	-4.84	-6.09	-7.61	-7.58	-8.62	-8.28
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	-21.11	-30.20	-32.99	-42.87	-53.62	-53.41	-60.77	-58.34	0.00	-30.76	-30.87	-32.00	-40.24	-50.28	-50.09	-56.96	-54.70
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-6.43	-9.19	-10.04	-13.04	-16.31	-16.24	-18.48	-17.74	0.00	-9.36	-9.40	-9.74	-12.24	-15.29	-15.24	-17.32	-16.64
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-1,816.02	-2,613.65	-2,808.99	-2,635.96	-2,719.63	-2,781.62	-2,794.50	-2,865.62	0.00	-2,701.20	-2,683.53	-2,732.49	-2,486.29	-2,571.29	-2,627.53	-2,643.70	-2,707.89
Chico, CA	Subpart 1	-	100	-	0.00	-3.15	-4.51	-4.92	-6.40	-8.01	-7.97	-9.07	-8.71	0.00	-4.59	-4.61	-4.78	-6.01	-7.51	-7.48	-8.50	-8.17
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	-23.31	-33.35	-36.43	-47.34	-59.21	-58.97	-67.10	-64.42	0.00	-33.96	-34.09	-35.34	-44.44	-55.52	-55.31	-62.90	-60.41
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	-30.34	-43.40	-47.40	-61.61	-77.05	-76.74	-87.32	-83.84	0.00	-44.19	-44.36	-45.99	-57.83	-72.25	-71.98	-81.86	-78.61
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	-20.50	-29.33	-32.04	-41.64	-52.08	-51.87	-59.02	-56.66	0.00	-29.87	-29.98	-31.08	-39.08	-48.83	-48.64	-55.32	-53.13
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	-94.08	-134.66	-146.86	-185.95	-229.78	-229.21	-259.02	-249.55	0.00	-137.31	-137.71	-142.51	-174.60	-215.56	-215.06	-242.91	-234.09
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	-8.63	-12.34	-13.48	-17.52	-21.91	-21.83	-24.83	-23.84	0.00	-12.57	-12.62	-13.08	-16.45	-20.55	-20.47	-23.28	-22.35
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-236.94	-340.71	-367.04	-363.96	-390.90	-397.45	-410.96	-414.90	0.00	-351.37	-349.60	-356.90	-342.98	-368.89	-374.85	-387.92	-391.36
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-142.19	-204.21	-220.74	-235.84	-265.94	-268.54	-286.91	-284.65	0.00	-209.94	-209.34	-214.52	-221.98	-250.43	-252.80	-270.16	-267.95
Door Co, WI	Subpart 1	-	100	-	0.00	-0.45	-0.64	-0.70	-0.91	-1.14	-1.13	-1.29	-1.24	0.00	-0.65	-0.65	-0.68	-0.85	-1.06	-1.06	-1.21	-1.16
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	-0.02	-0.03	-0.03	-0.04	-0.04	-0.04	-0.05	-0.05	0.00	-0.03	-0.03	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05
Evansville, IN	-	Nonattainment	-	100	0.00	-3.65	-5.22	-5.70	-7.41	-9.27	-9.23	-10.50	-10.08	0.00	-5.31	-5.34	-5.53	-6.95	-8.69	-8.66	-9.84	-9.45
Greater Connecticut, CT	Moderate	-	100	-	0.00	-19.45	-27.82	-30.39	-39.50	-49.40	-49.20	-55.98	-53.75	0.00	-28.33	-28.44	-29.48	-37.07	-46.32	-46.14	-52.48	-50.39
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	-9.48	-13.56	-14.81	-19.24	-24.07	-23.97	-27.28	-26.19	0.00	-13.80	-13.86	-14.36	-18.06	-22.57	-22.48	-25.57	-24.55
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	-9.54	-13.65	-14.91	-19.37	-24.23	-24.13	-27.46	-26.36	0.00	-13.90	-13.95	-14.46	-18.18	-22.72	-22.63	-25.74	-24.72
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	-0.07	-0.09	-0.10	-0.13	-0.17	-0.17	-0.19	-0.18	0.00	-0.10	-0.10	-0.10	-0.13	-0.16	-0.16	-0.18	-0.17
Hickory, NC	-	Nonattainment	-	100	0.00	-2.08	-2.97	-3.25	-4.22	-5.27	-5.25	-5.98	-5.74	0.00	-3.03	-3.04	-3.15	-3.96	-4.95	-4.93	-5.60	-5.38

Table C-40
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Sulfur Dioxide 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-842.43	-1,212.18	-1,303.53	-1,240.31	-1,293.13	-1,320.55	-1,336.86	-1,365.19	0.00	-1,252.13	-1,244.39	-1,267.91	-1,169.61	-1,222.00	-1,246.88	-1,263.97	-1,289.43
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-46.42	-66.79	-71.82	-68.35	-71.27	-72.78	-73.68	-75.24	0.00	-68.99	-68.57	-69.86	-64.45	-67.34	-68.72	-69.66	-71.06
Imperial Co, CA	Moderate	-	100	-	0.00	-2.71	-3.88	-4.24	-5.51	-6.89	-6.87	-7.81	-7.50	0.00	-3.95	-3.97	-4.11	-5.17	-6.46	-6.44	-7.32	-7.03
Indianapolis, IN	-	Nonattainment	-	100	0.00	-19.18	-27.44	-29.97	-38.94	-48.71	-48.51	-55.20	-53.00	0.00	-27.94	-28.05	-29.07	-36.56	-45.67	-45.50	-51.75	-49.69
Jamestown, NY	Subpart 1	-	100	-	0.00	-1.83	-2.62	-2.86	-3.72	-4.65	-4.63	-5.27	-5.06	0.00	-2.67	-2.68	-2.78	-3.49	-4.36	-4.35	-4.94	-4.75
Jefferson Co, NY	Moderate	-	100	-	0.00	-1.46	-2.09	-2.29	-2.97	-3.72	-3.70	-4.21	-4.04	0.00	-2.13	-2.14	-2.22	-2.79	-3.49	-3.47	-3.95	-3.79
Johnstown, PA	-	Nonattainment	-	100	0.00	-1.26	-1.80	-1.96	-2.55	-3.19	-3.18	-3.62	-3.47	0.00	-1.83	-1.84	-1.91	-2.40	-2.99	-2.98	-3.39	-3.26
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-19.14	-27.54	-29.61	-28.09	-29.22	-29.85	-30.17	-30.84	0.00	-28.45	-28.27	-28.80	-26.49	-27.62	-28.19	-28.53	-29.13
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-14.53	-20.79	-22.70	-29.51	-36.91	-36.76	-41.82	-40.15	0.00	-21.17	-21.25	-22.03	-27.70	-34.61	-34.47	-39.21	-37.65
Lancaster, PA	-	Nonattainment	-	100	0.00	-5.40	-7.72	-8.43	-10.96	-13.71	-13.65	-15.54	-14.91	0.00	-7.86	-7.89	-8.18	-10.29	-12.85	-12.81	-14.56	-13.98
Las Vegas, NV	Subpart 1	-	100	-	0.00	-18.87	-27.00	-29.49	-38.33	-47.94	-47.74	-54.32	-52.15	0.00	-27.49	-27.60	-28.61	-35.98	-44.95	-44.78	-50.92	-48.90
Libby, MT	-	Nonattainment	-	100	0.00	-0.07	-0.10	-0.10	-0.14	-0.17	-0.17	-0.19	-0.18	0.00	-0.10	-0.10	-0.10	-0.13	-0.16	-0.16	-0.18	-0.17
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-0.17	-0.25	-0.27	-0.35	-0.44	-0.43	-0.49	-0.47	0.00	-0.25	-0.25	-0.26	-0.33	-0.41	-0.41	-0.46	-0.45
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-788.15	-1,132.96	-1,221.54	-1,234.45	-1,343.09	-1,363.06	-1,422.01	-1,428.80	0.00	-1,167.52	-1,162.24	-1,187.63	-1,162.92	-1,266.74	-1,284.90	-1,341.38	-1,346.99
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-611.58	-880.37	-945.66	-875.89	-894.62	-916.40	-913.77	-940.87	0.00	-910.31	-904.04	-919.99	-826.35	-846.23	-865.99	-864.97	-889.49
Louisville, KY-IN	-	Nonattainment	-	100	0.00	-12.61	-18.04	-19.70	-25.60	-32.02	-31.89	-36.29	-34.84	0.00	-18.37	-18.44	-19.11	-24.03	-30.03	-29.91	-34.02	-32.67
Macon, GA	-	Nonattainment	-	100	0.00	-2.36	-3.38	-3.69	-4.80	-6.00	-5.98	-6.80	-6.53	0.00	-3.44	-3.46	-3.58	-4.50	-5.63	-5.61	-6.38	-6.12
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	-1.20	-1.71	-1.87	-2.43	-3.04	-3.03	-3.44	-3.30	0.00	-1.74	-1.75	-1.81	-2.28	-2.85	-2.84	-3.23	-3.10
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	-1.42	-2.04	-2.23	-2.89	-3.62	-3.60	-4.10	-3.94	0.00	-2.08	-2.08	-2.16	-2.72	-3.39	-3.38	-3.84	-3.69
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	-3.80	-5.44	-5.94	-7.72	-9.65	-9.61	-10.94	-10.50	0.00	-5.53	-5.56	-5.76	-7.24	-9.05	-9.01	-10.25	-9.84
Memphis, TN-AR	Moderate	-	100	-	0.00	-22.07	-31.67	-34.31	-38.48	-44.65	-44.91	-48.87	-48.02	0.00	-32.49	-32.44	-33.33	-36.19	-41.99	-42.23	-45.95	-45.15
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	-21.29	-30.46	-33.27	-43.24	-54.08	-53.87	-61.29	-58.84	0.00	-31.02	-31.14	-32.28	-40.59	-50.71	-50.52	-57.45	-55.17
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	-1.84	-2.63	-2.87	-3.73	-4.67	-4.65	-5.29	-5.08	0.00	-2.68	-2.69	-2.78	-3.50	-4.38	-4.36	-4.96	-4.76
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-247.09	-354.03	-385.08	-464.82	-561.10	-561.40	-625.78	-607.20	0.00	-361.91	-362.32	-373.84	-436.74	-526.87	-527.19	-587.44	-570.07
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	-1.70	-2.43	-2.65	-3.45	-4.31	-4.29	-4.89	-4.69	0.00	-2.47	-2.48	-2.57	-3.24	-4.04	-4.03	-4.58	-4.40
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-503.87	-724.69	-780.27	-764.16	-813.59	-828.28	-851.19	-862.20	0.00	-747.74	-743.70	-758.79	-720.25	-768.09	-781.44	-803.85	-813.60
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	-61.53	-88.03	-96.15	-124.96	-156.29	-155.66	-177.12	-170.04	0.00	-89.64	-89.98	-93.27	-117.29	-146.55	-145.99	-166.03	-159.44
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-30.42	-43.57	-47.41	-57.56	-69.68	-69.69	-77.82	-75.44	0.00	-44.53	-44.59	-46.02	-54.07	-65.42	-65.44	-73.04	-70.82
Poughkeepsie, NY	Moderate	-	100	-	0.00	-16.81	-24.05	-26.27	-34.15	-42.71	-42.54	-48.40	-46.47	0.00	-24.49	-24.59	-25.49	-32.05	-40.05	-39.89	-45.37	-43.57
Providence (All RI), RI	Moderate	-	100	-	0.00	-11.82	-16.91	-18.47	-24.00	-30.02	-29.90	-34.02	-32.66	0.00	-17.22	-17.29	-17.92	-22.53	-28.15	-28.04	-31.89	-30.63
Reading, PA	-	Nonattainment	-	100	0.00	-3.94	-5.64	-6.16	-8.01	-10.02	-9.98	-11.35	-10.90	0.00	-5.74	-5.77	-5.98	-7.52	-9.39	-9.36	-10.64	-10.22
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	-7.66	-10.96	-11.98	-15.56	-19.47	-19.39	-22.06	-21.18	0.00	-11.16	-11.21	-11.62	-14.61	-18.25	-18.18	-20.68	-19.86
Rochester, NY	Subpart 1	-	100	-	0.00	-15.86	-22.69	-24.78	-32.21	-40.29	-40.12	-45.65	-43.83	0.00	-23.11	-23.19	-24.04	-30.23	-37.77	-37.63	-42.80	-41.10
Rome, GA	-	Nonattainment	-	100	0.00	-1.42	-2.03	-2.21	-2.88	-3.60	-3.59	-4.08	-3.92	0.00	-2.06	-2.07	-2.15	-2.70	-3.38	-3.36	-3.82	-3.67
Sacramento Metro, CA	Serious	-	50	-	0.00	-834.98	-1,201.76	-1,291.45	-1,209.12	-1,245.31	-1,274.03	-1,278.27	-1,311.73	0.00	-1,242.12	-1,233.92	-1,256.30	-1,140.52	-1,177.48	-1,203.54	-1,209.42	-1,239.63

Table C-40
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Sulfur Dioxide 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
San Diego, CA	Subpart 1	-	100	-	0.00	-51.68	-73.94	-80.76	-104.96	-131.27	-130.75	-148.77	-142.83	0.00	-75.29	-75.58	-78.34	-98.52	-123.09	-122.62	-139.45	-133.92
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-1,783.76	-2,567.14	-2,759.23	-2,594.48	-2,680.94	-2,741.42	-2,757.23	-2,825.66	0.00	-2,652.93	-2,635.71	-2,684.05	-2,447.08	-2,534.53	-2,589.41	-2,608.21	-2,669.94
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	-74.39	-106.58	-115.93	-139.98	-169.00	-169.09	-188.49	-182.89	0.00	-108.95	-109.07	-112.54	-131.52	-158.69	-158.78	-176.95	-171.70
Sheboygan, WI	Moderate	-	100	-	0.00	-1.43	-2.05	-2.24	-2.91	-3.64	-3.63	-4.13	-3.96	0.00	-2.09	-2.10	-2.17	-2.73	-3.42	-3.40	-3.87	-3.72
Springfield (Western MA), MA	Moderate	-	100	-	0.00	-10.58	-15.13	-16.53	-21.48	-26.87	-26.76	-30.45	-29.23	0.00	-15.41	-15.47	-16.03	-20.16	-25.19	-25.10	-28.54	-27.41
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-1,479.89	-2,130.19	-2,288.50	-2,127.36	-2,178.99	-2,231.09	-2,229.38	-2,292.84	0.00	-2,202.33	-2,187.38	-2,226.33	-2,006.90	-2,060.84	-2,108.11	-2,109.96	-2,167.36
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-13.50	-19.42	-20.88	-19.88	-20.73	-21.17	-21.44	-21.89	0.00	-20.06	-19.94	-20.31	-18.75	-19.59	-19.99	-20.27	-20.67
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	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
Ventura Co, CA	Serious	-	50	-	0.00	-11.34	-16.24	-17.71	-22.50	-27.86	-27.78	-31.42	-30.26	0.00	-16.55	-16.60	-17.19	-21.13	-26.13	-26.06	-29.47	-28.38
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	-65.91	-94.29	-102.98	-133.84	-167.41	-166.73	-189.72	-182.14	0.00	-96.01	-96.38	-99.91	-125.64	-156.97	-156.37	-177.84	-170.78
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-882.38	-1,270.30	-1,364.21	-1,256.93	-1,278.51	-1,310.46	-1,302.65	-1,343.56	0.00	-1,313.75	-1,304.53	-1,327.23	-1,185.94	-1,209.59	-1,238.57	-1,233.38	-1,270.44
York, PA	-	Nonattainment	-	100	0.00	-4.16	-5.96	-6.51	-8.46	-10.58	-10.53	-11.99	-11.51	0.00	-6.07	-6.09	-6.31	-7.94	-9.92	-9.88	-11.24	-10.79

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/andl3.html>. Accessed August 5, 2009.

Table C-41
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Volatile Organic Compounds 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-30.77	-45.70	-54.79	-76.94	-110.50	-98.64	-116.92	-117.44	0.00	-30.77	-45.70	-54.79	-76.94	-110.50	-98.64	-116.92	-117.44
Allegan Co, MI	Subpart 1	-	100	-	0.00	-5.14	-7.65	-9.17	-12.87	-18.49	-16.48	-19.55	-19.64	0.00	-5.14	-7.65	-9.17	-12.87	-18.49	-16.48	-19.55	-19.64
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	-1.19	-1.75	-2.09	-2.94	-4.22	-3.80	-4.48	-4.50	0.00	-1.19	-1.75	-2.09	-2.94	-4.22	-3.80	-4.48	-4.50
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	-153.02	-227.23	-272.43	-382.57	-549.44	-490.47	-581.40	-583.96	0.00	-153.02	-227.23	-272.43	-382.57	-549.44	-490.47	-581.40	-583.96
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	-36.99	-54.59	-65.43	-91.91	-132.04	-118.32	-139.90	-140.48	0.00	-36.99	-54.59	-65.43	-91.91	-132.04	-118.32	-139.90	-140.48
Baton Rouge, LA	Moderate	-	100	-	0.00	-74.24	-110.81	-132.89	-186.56	-267.87	-238.34	-283.14	-284.45	0.00	-74.24	-110.81	-132.89	-186.56	-267.87	-238.34	-283.14	-284.45
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-77.64	-115.97	-139.09	-195.25	-280.34	-249.33	-296.28	-297.66	0.00	-77.64	-115.97	-139.09	-195.25	-280.34	-249.33	-296.28	-297.66
Birmingham, AL	-	Nonattainment	-	100	0.00	-28.23	-41.95	-50.29	-70.62	-101.43	-90.50	-107.31	-107.78	0.00	-28.23	-41.95	-50.29	-70.62	-101.43	-90.50	-107.31	-107.78
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	-54.10	-79.65	-95.45	-134.11	-192.68	-172.93	-204.25	-205.08	0.00	-54.10	-79.65	-95.45	-134.11	-192.68	-172.93	-204.25	-205.08
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	-7.68	-11.33	-13.58	-19.08	-27.42	-24.57	-29.05	-29.17	0.00	-7.68	-11.33	-13.58	-19.08	-27.42	-24.57	-29.05	-29.17
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	-21.59	-32.00	-38.36	-53.87	-77.38	-69.17	-81.92	-82.27	0.00	-21.59	-32.00	-38.36	-53.87	-77.38	-69.17	-81.92	-82.27
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-14.73	-21.94	-26.31	-36.94	-53.05	-47.25	-56.09	-56.35	0.00	-14.73	-21.94	-26.31	-36.94	-53.05	-47.25	-56.09	-56.35
Charleston, WV	-	Nonattainment	-	100	0.00	-5.06	-7.50	-8.99	-12.62	-18.13	-16.21	-19.19	-19.27	0.00	-5.06	-7.50	-8.99	-12.62	-18.13	-16.21	-19.19	-19.27
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	-45.64	-67.83	-81.33	-114.21	-164.02	-146.34	-173.53	-174.30	0.00	-45.64	-67.83	-81.33	-114.21	-164.02	-146.34	-173.53	-174.30
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-35.49	-52.93	-63.47	-89.11	-127.95	-113.92	-135.27	-135.90	0.00	-35.49	-52.93	-63.47	-89.11	-127.95	-113.92	-135.27	-135.90
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-129.79	-192.37	-230.62	-323.89	-465.20	-415.78	-492.46	-494.59	0.00	-129.79	-192.37	-230.62	-323.89	-465.20	-415.78	-492.46	-494.59
Chico, CA	Subpart 1	-	100	-	0.00	-5.82	-8.64	-10.36	-14.55	-20.90	-18.65	-22.11	-22.21	0.00	-5.82	-8.64	-10.36	-14.55	-20.90	-18.65	-22.11	-22.21
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	-40.16	-59.57	-71.42	-100.30	-144.06	-128.69	-152.48	-153.14	0.00	-40.16	-59.57	-71.42	-100.30	-144.06	-128.69	-152.48	-153.14
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	-43.30	-64.10	-76.84	-107.92	-155.01	-138.66	-164.14	-164.84	0.00	-43.30	-64.10	-76.84	-107.92	-155.01	-138.66	-164.14	-164.84
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	-45.17	-67.14	-80.51	-113.05	-162.35	-144.84	-171.76	-172.52	0.00	-45.17	-67.14	-80.51	-113.05	-162.35	-144.84	-171.76	-172.52
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	-143.45	-212.88	-255.22	-358.41	-514.76	-459.71	-544.78	-547.16	0.00	-143.45	-212.88	-255.22	-358.41	-514.76	-459.71	-544.78	-547.16
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	-16.69	-24.76	-29.69	-41.69	-59.87	-53.47	-63.37	-63.64	0.00	-16.69	-24.76	-29.69	-41.69	-59.87	-53.47	-63.37	-63.64
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-69.12	-102.52	-122.91	-172.62	-247.92	-221.48	-262.41	-263.55	0.00	-69.12	-102.52	-122.91	-172.62	-247.92	-221.48	-262.41	-263.55
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-107.11	-158.99	-190.62	-267.69	-384.46	-343.28	-406.85	-408.63	0.00	-107.11	-158.99	-190.62	-267.69	-384.46	-343.28	-406.85	-408.63
Door Co, WI	Subpart 1	-	100	-	0.00	-0.32	-0.48	-0.57	-0.80	-1.15	-1.03	-1.22	-1.22	0.00	-0.32	-0.48	-0.57	-0.80	-1.15	-1.03	-1.22	-1.22
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	-0.74	-1.10	-1.32	-1.85	-2.66	-2.36	-2.81	-2.82	0.00	-0.74	-1.10	-1.32	-1.85	-2.66	-2.36	-2.81	-2.82
Evansville, IN	-	Nonattainment	-	100	0.00	-18.50	-27.57	-33.07	-46.42	-66.66	-59.36	-70.48	-70.80	0.00	-18.50	-27.57	-33.07	-46.42	-66.66	-59.36	-70.48	-70.80
Greater Connecticut, CT	Moderate	-	100	-	0.00	-27.82	-41.17	-49.36	-69.33	-99.58	-89.07	-105.44	-105.89	0.00	-27.82	-41.17	-49.36	-69.33	-99.58	-89.07	-105.44	-105.89
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	-17.00	-25.22	-30.24	-42.47	-61.00	-54.48	-64.56	-64.84	0.00	-17.00	-25.22	-30.24	-42.47	-61.00	-54.48	-64.56	-64.84
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	-14.16	-20.98	-25.15	-35.32	-50.73	-45.35	-53.71	-53.94	0.00	-14.16	-20.98	-25.15	-35.32	-50.73	-45.35	-53.71	-53.94

Table C-41
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area
Volatile Organic Compounds 2016

Nonattainment Area	Status b/		General Conformity Threshold c/		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	-1.86	-2.79	-3.34	-4.69	-6.73	-5.99	-7.11	-7.15	0.00	-1.86	-2.79	-3.34	-4.69	-6.73	-5.99	-7.11	-7.15
Hickory, NC	-	Nonattainment	-	100	0.00	-3.74	-5.54	-6.64	-9.33	-13.40	-11.97	-14.18	-14.24	0.00	-3.74	-5.54	-6.64	-9.33	-13.40	-11.97	-14.18	-14.24
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-466.10	-695.48	-834.07	1,170.91	-1,681.29	-1,496.29	-1,777.26	-1,785.46	0.00	-466.10	-695.48	-834.07	-1,170.91	-1,681.29	-1,496.29	-1,777.26	-1,785.46
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-56.22	-83.97	-100.70	-141.37	-202.98	-180.54	-214.52	-215.52	0.00	-56.22	-83.97	-100.70	-141.37	-202.98	-180.54	-214.52	-215.52
Imperial Co, CA	Moderate	-	100	-	0.00	-4.02	-5.96	-7.14	-10.03	-14.41	-12.88	-15.25	-15.32	0.00	-4.02	-5.96	-7.14	-10.03	-14.41	-12.88	-15.25	-15.32
Indianapolis, IN	-	Nonattainment	-	100	0.00	-41.02	-60.95	-73.08	-102.61	-147.37	-131.50	-155.92	-156.61	0.00	-41.02	-60.95	-73.08	-102.61	-147.37	-131.50	-155.92	-156.61
Jamestown, NY	Subpart 1	-	100	-	0.00	-4.40	-6.54	-7.84	-11.02	-15.82	-14.11	-16.74	-16.81	0.00	-4.40	-6.54	-7.84	-11.02	-15.82	-14.11	-16.74	-16.81
Jefferson Co, NY	Moderate	-	100	-	0.00	-1.89	-2.80	-3.35	-4.71	-6.77	-6.06	-7.17	-7.20	0.00	-1.89	-2.80	-3.35	-4.71	-6.77	-6.06	-7.17	-7.20
Johnstown, PA	-	Nonattainment	-	100	0.00	-13.35	-19.93	-23.90	-33.56	-48.18	-42.87	-50.93	-51.16	0.00	-13.35	-19.93	-23.90	-33.56	-48.18	-42.87	-50.93	-51.16
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-36.93	-55.19	-66.19	-92.91	-133.40	-118.61	-140.97	-141.63	0.00	-36.93	-55.19	-66.19	-92.91	-133.40	-118.61	-140.97	-141.63
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-75.15	-112.08	-134.41	-188.70	-270.95	-241.22	-286.45	-287.77	0.00	-75.15	-112.08	-134.41	-188.70	-270.95	-241.22	-286.45	-287.77
Lancaster, PA	-	Nonattainment	-	100	0.00	-4.96	-7.31	-8.76	-12.31	-17.68	-15.86	-18.74	-18.82	0.00	-4.96	-7.31	-8.76	-12.31	-17.68	-15.86	-18.74	-18.82
Las Vegas, NV	Subpart 1	-	100	-	0.00	-23.99	-35.54	-42.60	-59.83	-85.94	-76.84	-90.99	-91.38	0.00	-23.99	-35.54	-42.60	-59.83	-85.94	-76.84	-90.99	-91.38
Libby, MT	-	Nonattainment	-	100	0.00	-0.75	-1.12	-1.34	-1.89	-2.71	-2.41	-2.86	-2.87	0.00	-0.75	-1.12	-1.34	-1.89	-2.71	-2.41	-2.86	-2.87
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-30.25	-45.22	-54.24	-76.14	-109.32	-97.18	-115.52	-116.06	0.00	-30.25	-45.22	-54.24	-76.14	-109.32	-97.18	-115.52	-116.06
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-260.24	-385.51	-462.15	-649.07	-932.29	-833.52	-987.02	-991.26	0.00	-260.24	-385.51	-462.15	-649.07	-932.29	-833.52	-987.02	-991.26
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-197.98	-295.80	-354.77	-498.01	-715.04	-635.83	-755.65	-759.18	0.00	-197.98	-295.80	-354.77	-498.01	-715.04	-635.83	-755.65	-759.18
Louisville, KY-IN	-	Nonattainment	-	100	0.00	-25.59	-37.99	-45.55	-63.97	-91.87	-82.02	-97.22	-97.64	0.00	-25.59	-37.99	-45.55	-63.97	-91.87	-82.02	-97.22	-97.64
Macon, GA	-	Nonattainment	-	100	0.00	-18.17	-27.11	-32.51	-45.64	-65.54	-58.32	-69.28	-69.60	0.00	-18.17	-27.11	-32.51	-45.64	-65.54	-58.32	-69.28	-69.60
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	-1.05	-1.54	-1.84	-2.59	-3.72	-3.34	-3.95	-3.96	0.00	-1.05	-1.54	-1.84	-2.59	-3.72	-3.34	-3.95	-3.96
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	-1.54	-2.27	-2.72	-3.83	-5.50	-4.92	-5.82	-5.84	0.00	-1.54	-2.27	-2.72	-3.83	-5.50	-4.92	-5.82	-5.84
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	-15.48	-23.07	-27.66	-38.84	-55.77	-49.68	-58.97	-59.24	0.00	-15.48	-23.07	-27.66	-38.84	-55.77	-49.68	-58.97	-59.24
Memphis, TN-AR	Moderate	-	100	-	0.00	-36.38	-54.14	-64.92	-91.15	-130.90	-116.69	-138.45	-139.07	0.00	-36.38	-54.14	-64.92	-91.15	-130.90	-116.69	-138.45	-139.07
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	-33.15	-49.12	-58.89	-82.71	-118.80	-106.18	-125.76	-126.30	0.00	-33.15	-49.12	-58.89	-82.71	-118.80	-106.18	-125.76	-126.30
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	-2.54	-3.77	-4.52	-6.34	-9.11	-8.14	-9.64	-9.69	0.00	-2.54	-3.77	-4.52	-6.34	-9.11	-8.14	-9.64	-9.69
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-379.99	-564.26	-676.52	-950.02	-1,364.40	-1,217.98	-1,443.76	-1,450.11	0.00	-379.99	-564.26	-676.52	-950.02	-1,364.40	-1,217.98	-1,443.76	-1,450.11
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	-10.08	-15.03	-18.02	-25.30	-36.33	-32.34	-38.41	-38.58	0.00	-10.08	-15.03	-18.02	-25.30	-36.33	-32.34	-38.41	-38.58
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-196.18	-291.69	-349.75	-491.10	-705.27	-629.08	-746.09	-749.42	0.00	-196.18	-291.69	-349.75	-491.10	-705.27	-629.08	-746.09	-749.42
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	-53.67	-79.26	-94.99	-133.44	-191.69	-171.72	-203.08	-203.93	0.00	-53.67	-79.26	-94.99	-133.44	-191.69	-171.72	-203.08	-203.93
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-68.41	-101.77	-122.02	-171.34	-246.05	-219.39	-260.26	-261.43	0.00	-68.41	-101.77	-122.02	-171.34	-246.05	-219.39	-260.26	-261.43

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Volatile Organic Compounds 2016

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Poughkeepsie, NY	Moderate	-	100	-	0.00	-19.01	-28.10	-33.68	-47.31	-67.96	-60.84	-71.98	-72.29	0.00	-19.01	-28.10	-33.68	-47.31	-67.96	-60.84	-71.98	-72.29
Providence (All RI), RI	Moderate	-	100	-	0.00	-28.47	-42.33	-50.76	-71.27	-102.36	-91.30	-108.28	-108.77	0.00	-28.47	-42.33	-50.76	-71.27	-102.36	-91.30	-108.28	-108.77
Reading, PA	-	Nonattainment	-	100	0.00	-7.45	-11.06	-13.26	-18.62	-26.75	-23.89	-28.31	-28.43	0.00	-7.45	-11.06	-13.26	-18.62	-26.75	-23.89	-28.31	-28.43
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	-17.08	-25.41	-30.47	-42.78	-61.44	-54.79	-64.99	-65.28	0.00	-17.08	-25.41	-30.47	-42.78	-61.44	-54.79	-64.99	-65.28
Rochester, NY	Subpart 1	-	100	-	0.00	-24.22	-35.89	-43.02	-60.42	-86.78	-77.58	-91.88	-92.27	0.00	-24.22	-35.89	-43.02	-60.42	-86.78	-77.58	-91.88	-92.27
Rome, GA	-	Nonattainment	-	100	0.00	-6.74	-10.04	-12.04	-16.91	-24.28	-21.62	-25.67	-25.79	0.00	-6.74	-10.04	-12.04	-16.91	-24.28	-21.62	-25.67	-25.79
Sacramento Metro, CA	Serious	-	50	-	0.00	-54.10	-80.30	-96.27	-135.20	-194.17	-173.38	-205.48	-206.38	0.00	-54.10	-80.30	-96.27	-135.20	-194.17	-173.38	-205.48	-206.38
San Diego, CA	Subpart 1	-	100	-	0.00	-37.97	-55.85	-66.92	-94.03	-135.11	-121.34	-143.26	-143.83	0.00	-37.97	-55.85	-66.92	-94.03	-135.11	-121.34	-143.26	-143.83
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-188.33	-279.80	-335.48	-471.09	-676.55	-603.75	-715.83	-718.99	0.00	-188.33	-279.80	-335.48	-471.09	-676.55	-603.75	-715.83	-718.99
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	-103.35	-153.51	-184.06	-258.46	-371.20	-331.31	-392.77	-394.50	0.00	-103.35	-153.51	-184.06	-258.46	-371.20	-331.31	-392.77	-394.50
Sheboygan, WI	Moderate	-	100	-	0.00	-2.64	-3.91	-4.69	-6.59	-9.46	-8.45	-10.01	-10.06	0.00	-2.64	-3.91	-4.69	-6.59	-9.46	-8.45	-10.01	-10.06
Springfield (Western MA), MA	Moderate	-	100	-	0.00	-10.28	-15.15	-18.16	-25.51	-36.65	-32.87	-38.84	-39.00	0.00	-10.28	-15.15	-18.16	-25.51	-36.65	-32.87	-38.84	-39.00
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-142.09	-211.69	-253.85	-356.40	-511.78	-455.92	-541.18	-543.64	0.00	-142.09	-211.69	-253.85	-356.40	-511.78	-455.92	-541.18	-543.64
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-9.91	-14.78	-17.73	-24.89	-35.74	-31.80	-37.78	-37.95	0.00	-9.91	-14.78	-17.73	-24.89	-35.74	-31.80	-37.78	-37.95
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	0.00	-0.90	-1.35	-1.62	-2.27	-3.27	-2.90	-3.45	-3.47	0.00	-0.90	-1.35	-1.62	-2.27	-3.27	-2.90	-3.45	-3.47
Ventura Co, CA	Serious	-	50	-	0.00	-8.93	-13.17	-15.78	-22.17	-31.86	-28.57	-33.76	-33.90	0.00	-8.93	-13.17	-15.78	-22.17	-31.86	-28.57	-33.76	-33.90
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	-65.32	-96.40	-115.54	-162.31	-233.17	-208.97	-247.06	-248.08	0.00	-65.32	-96.40	-115.54	-162.31	-233.17	-208.97	-247.06	-248.08
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-9.81	-14.63	-17.54	-24.63	-35.37	-31.49	-37.39	-37.57	0.00	-9.81	-14.63	-17.54	-24.63	-35.37	-31.49	-37.39	-37.57
York, PA	-	Nonattainment	-	100	0.00	-6.99	-10.37	-12.43	-17.46	-25.08	-22.40	-26.54	-26.66	0.00	-6.99	-10.37	-12.43	-17.46	-25.08	-22.40	-26.54	-26.66

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-42
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Volatile Organic Compounds 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-75.83	-110.52	-126.07	-184.92	-253.13	-238.63	-281.64	-273.07	0.00	-90.40	-113.00	-126.55	-183.73	-251.53	-237.07	-279.81	-271.34
Allegan Co, MI	Subpart 1	-	100	-	0.00	-12.72	-18.55	-21.12	-30.60	-41.73	-39.43	-46.43	-45.01	0.00	-15.16	-18.97	-21.20	-30.40	-41.46	-39.17	-46.13	-44.72
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	-2.82	-4.11	-4.74	-7.50	-10.48	-9.75	-11.66	-11.31	0.00	-3.38	-4.20	-4.76	-7.45	-10.42	-9.69	-11.59	-11.25
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	-376.57	-548.84	-626.19	-919.65	-1,259.32	-1,186.93	-1,401.19	-1,358.58	0.00	-448.97	-561.14	-628.54	-913.76	-1,251.42	-1,179.17	-1,392.06	-1,349.98
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	-89.77	-130.72	-149.86	-227.53	-314.53	-294.67	-349.87	-339.38	0.00	-107.17	-133.69	-150.44	-226.11	-312.63	-292.79	-347.67	-337.31
Baton Rouge, LA	Moderate	-	100	-	0.00	-185.11	-270.01	-306.77	-437.18	-593.31	-562.42	-660.33	-639.98	0.00	-220.46	-275.99	-307.90	-434.31	-589.47	-558.64	-655.89	-635.80
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-193.96	-282.95	-321.30	-456.06	-618.18	-586.44	-688.02	-666.78	0.00	-230.97	-289.21	-322.48	-453.05	-614.15	-582.49	-683.38	-662.40
Birmingham, AL	-	Nonattainment	-	100	0.00	-69.70	-101.61	-115.83	-169.14	-231.22	-218.17	-257.29	-249.44	0.00	-83.09	-103.88	-116.27	-168.05	-229.76	-216.73	-255.60	-247.85
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	-130.63	-190.14	-218.40	-335.82	-465.89	-435.48	-518.18	-502.73	0.00	-156.02	-194.48	-219.24	-333.76	-463.10	-432.75	-514.95	-499.69
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	-18.64	-27.14	-31.12	-47.29	-65.39	-61.25	-72.74	-70.56	0.00	-22.25	-27.75	-31.24	-47.00	-65.00	-60.86	-72.28	-70.13
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	-52.98	-77.20	-88.20	-130.85	-179.70	-169.05	-199.93	-193.87	0.00	-63.19	-78.93	-88.54	-130.02	-178.58	-167.96	-198.64	-192.66
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-36.59	-53.36	-60.70	-87.36	-118.91	-112.50	-132.33	-128.27	0.00	-43.59	-54.54	-60.93	-86.79	-118.15	-111.75	-131.45	-127.44
Charleston, WV	-	Nonattainment	-	100	0.00	-12.41	-18.09	-20.67	-30.73	-42.23	-39.72	-46.99	-45.57	0.00	-14.81	-18.49	-20.75	-30.54	-41.97	-39.46	-46.68	-45.28
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	-112.59	-164.13	-187.13	-273.48	-373.95	-352.78	-416.10	-403.42	0.00	-134.22	-167.80	-187.83	-271.72	-371.59	-350.46	-413.37	-400.85
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-88.32	-128.81	-146.45	-209.83	-285.22	-270.09	-317.42	-307.66	0.00	-105.20	-131.67	-146.99	-208.46	-283.39	-268.29	-315.30	-305.67
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-318.36	-463.89	-529.98	-785.81	-1,079.03	-1,015.21	-1,200.50	-1,164.14	0.00	-379.71	-474.32	-531.98	-780.82	-1,072.32	-1,008.63	-1,192.74	-1,156.84
Chico, CA	Subpart 1	-	100	-	0.00	-14.33	-20.88	-23.82	-34.91	-47.77	-45.04	-53.15	-51.53	0.00	-17.08	-21.35	-23.91	-34.68	-47.47	-44.75	-52.80	-51.21
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	-98.70	-143.83	-164.22	-242.42	-332.46	-313.05	-369.90	-358.67	0.00	-117.70	-147.06	-164.84	-240.88	-330.38	-311.01	-367.50	-356.42
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	-106.02	-154.45	-176.61	-263.46	-362.40	-340.59	-403.18	-391.00	0.00	-126.47	-157.93	-177.28	-261.80	-360.16	-338.39	-400.59	-388.56
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	-111.52	-162.56	-185.31	-270.56	-369.84	-348.97	-411.53	-398.98	0.00	-132.93	-166.19	-186.01	-268.81	-367.51	-346.68	-408.83	-396.44
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	-352.46	-513.65	-586.35	-864.36	-1,184.90	-1,116.01	-1,318.35	-1,278.32	0.00	-420.28	-525.17	-588.55	-858.84	-1,177.49	-1,108.74	-1,309.79	-1,270.26
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	-41.09	-59.89	-68.35	-100.59	-137.83	-129.86	-153.36	-148.70	0.00	-49.00	-61.23	-68.60	-99.95	-136.97	-129.01	-152.36	-147.76
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-169.56	-247.08	-282.18	-417.34	-572.64	-539.02	-637.12	-617.80	0.00	-202.21	-252.63	-283.24	-414.68	-569.08	-535.52	-632.99	-613.92
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-263.88	-384.59	-438.82	-644.72	-882.95	-832.13	-982.41	-952.54	0.00	-314.62	-393.21	-440.46	-640.59	-877.41	-826.69	-976.01	-946.52
Door Co, WI	Subpart 1	-	100	-	0.00	-0.78	-1.13	-1.30	-2.03	-2.83	-2.64	-3.14	-3.05	0.00	-0.93	-1.15	-1.30	-2.02	-2.81	-2.62	-3.12	-3.03
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	-1.84	-2.68	-3.05	-4.31	-5.84	-5.54	-6.50	-6.30	0.00	-2.19	-2.74	-3.06	-4.28	-5.80	-5.51	-6.46	-6.26
Evansville, IN	-	Nonattainment	-	100	0.00	-46.01	-67.10	-76.30	-109.45	-148.83	-140.90	-165.63	-160.54	0.00	-54.81	-68.59	-76.58	-108.73	-147.87	-139.96	-164.52	-159.50
Greater Connecticut, CT	Moderate	-	100	-	0.00	-68.10	-99.21	-113.44	-169.20	-232.73	-218.73	-258.92	-251.10	0.00	-81.24	-101.45	-113.87	-168.13	-231.29	-217.32	-257.26	-249.53
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	-41.79	-60.90	-69.53	-102.56	-140.62	-132.43	-156.45	-151.70	0.00	-49.83	-62.27	-69.79	-101.90	-139.74	-131.56	-155.44	-150.75
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	-34.69	-50.55	-57.77	-85.77	-117.82	-110.82	-131.08	-127.11	0.00	-41.38	-51.69	-57.98	-85.22	-117.09	-110.11	-130.24	-126.32
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	-4.66	-6.80	-7.72	-10.93	-14.81	-14.05	-16.48	-15.97	0.00	-5.55	-6.95	-7.75	-10.86	-14.71	-13.96	-16.37	-15.87

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Volatile Organic Compounds 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Hickory, NC	-	Nonattainment	-	100	0.00	-9.18	-13.37	-15.27	-22.55	-30.92	-29.12	-34.41	-33.36	0.00	-10.94	-13.67	-15.33	-22.40	-30.73	-28.93	-34.18	-33.15
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-1,161.26	-1,693.79	-1,924.93	-2,748.98	-3,733.09	-3,537.25	-4,154.64	-4,026.72	0.00	-1,383.12	-1,731.35	-1,932.02	-2,730.95	-3,708.96	-3,513.56	-4,126.78	-4,000.48
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-140.43	-204.86	-232.64	-330.41	-447.94	-424.90	-498.55	-483.16	0.00	-167.23	-209.39	-233.49	-328.23	-445.03	-422.04	-495.19	-480.00
Imperial Co, CA	Moderate	-	100	-	0.00	-9.85	-14.36	-16.40	-24.29	-33.34	-31.37	-37.09	-35.97	0.00	-11.75	-14.68	-16.46	-24.13	-33.13	-31.17	-36.85	-35.74
Indianapolis, IN	-	Nonattainment	-	100	0.00	-101.18	-147.49	-168.17	-245.95	-336.38	-317.29	-374.29	-362.89	0.00	-120.62	-150.79	-168.80	-244.37	-334.26	-315.21	-371.84	-360.58
Jamestown, NY	Subpart 1	-	100	-	0.00	-10.87	-15.85	-18.07	-26.37	-36.04	-34.01	-40.10	-38.88	0.00	-12.96	-16.21	-18.14	-26.20	-35.81	-33.78	-39.84	-38.63
Jefferson Co, NY	Moderate	-	100	-	0.00	-4.62	-6.73	-7.70	-11.55	-15.90	-14.93	-17.69	-17.16	0.00	-5.51	-6.88	-7.73	-11.47	-15.81	-14.84	-17.58	-17.05
Johnstown, PA	-	Nonattainment	-	100	0.00	-33.32	-48.60	-55.21	-78.63	-106.68	-101.14	-118.73	-115.07	0.00	-39.68	-49.68	-55.41	-78.11	-105.99	-100.46	-117.94	-114.32
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-92.33	-134.71	-152.91	-216.59	-293.39	-278.45	-326.55	-316.46	0.00	-109.94	-137.68	-153.48	-215.16	-291.48	-276.57	-324.34	-314.38
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-186.99	-272.72	-310.07	-444.21	-603.80	-571.78	-671.97	-651.31	0.00	-222.74	-278.78	-311.22	-441.30	-599.91	-567.96	-667.48	-647.08
Lancaster, PA	-	Nonattainment	-	100	0.00	-11.99	-17.46	-20.05	-30.71	-42.57	-39.81	-47.35	-45.93	0.00	-14.32	-17.86	-20.12	-30.52	-42.31	-39.56	-47.05	-45.65
Las Vegas, NV	Subpart 1	-	100	-	0.00	-58.56	-85.31	-97.55	-145.56	-200.24	-188.18	-222.77	-216.04	0.00	-69.86	-87.23	-97.92	-144.64	-199.00	-186.96	-221.34	-214.69
Libby, MT	-	Nonattainment	-	100	0.00	-1.87	-2.73	-3.10	-4.41	-5.99	-5.68	-6.67	-6.46	0.00	-2.23	-2.79	-3.11	-4.39	-5.95	-5.64	-6.62	-6.42
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-75.71	-110.46	-125.36	-177.17	-239.84	-227.72	-266.95	-258.69	0.00	-90.15	-112.90	-125.82	-176.00	-238.27	-226.18	-265.14	-256.98
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-637.12	-928.26	-1,061.07	-1,578.80	-2,170.11	-2,040.43	-2,414.33	-2,341.32	0.00	-759.99	-949.16	-1,065.07	-1,568.80	-2,156.67	-2,027.25	-2,398.80	-2,326.70
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-494.85	-721.93	-819.59	-1,161.59	-1,573.78	-1,493.43	-1,751.61	-1,697.49	0.00	-589.24	-737.89	-822.60	-1,153.92	-1,563.52	-1,483.36	-1,739.77	-1,686.34
Louisville, KY-IN	-	Nonattainment	-	100	0.00	-63.06	-91.91	-104.86	-153.96	-210.81	-198.70	-234.56	-227.42	0.00	-75.19	-93.97	-105.25	-152.97	-209.48	-197.40	-233.03	-225.98
Macon, GA	-	Nonattainment	-	100	0.00	-45.28	-66.04	-75.05	-107.16	-145.51	-137.88	-161.94	-156.96	0.00	-53.93	-67.51	-75.33	-106.46	-144.57	-136.96	-160.86	-155.93
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	-2.53	-3.67	-4.22	-6.52	-9.06	-8.46	-10.08	-9.78	0.00	-3.02	-3.76	-4.24	-6.48	-9.01	-8.41	-10.01	-9.72
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	-3.74	-5.45	-6.24	-9.37	-12.92	-12.12	-14.37	-13.94	0.00	-4.46	-5.57	-6.26	-9.31	-12.84	-12.05	-14.28	-13.85
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	-38.45	-56.07	-63.79	-91.82	-124.99	-118.25	-139.09	-134.82	0.00	-45.81	-57.31	-64.02	-91.22	-124.19	-117.46	-138.17	-133.95
Memphis, TN-AR	Moderate	-	100	-	0.00	-90.11	-131.38	-149.62	-216.82	-295.74	-279.44	-329.10	-319.03	0.00	-107.38	-134.31	-150.17	-215.42	-293.86	-277.59	-326.92	-316.98
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	-81.32	-118.49	-135.37	-200.74	-275.65	-259.34	-306.68	-297.39	0.00	-96.99	-121.15	-135.88	-199.46	-273.94	-257.66	-304.70	-295.53
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	-6.23	-9.07	-10.36	-15.32	-21.02	-19.79	-23.39	-22.68	0.00	-7.43	-9.28	-10.40	-15.22	-20.89	-19.66	-23.24	-22.53
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-936.65	-1,365.21	-1,557.29	-2,283.84	-3,126.07	-2,947.14	-3,478.29	-3,372.44	0.00	-1,116.68	-1,395.78	-1,563.12	-2,269.20	-3,106.42	-2,927.86	-3,455.58	-3,351.07
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	-25.09	-36.60	-41.60	-59.56	-80.95	-76.66	-90.09	-87.32	0.00	-29.89	-37.41	-41.76	-59.17	-80.43	-76.15	-89.48	-86.75
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-484.97	-707.00	-805.67	-1,173.32	-1,602.72	-1,512.97	-1,783.40	-1,728.97	0.00	-578.04	-722.79	-808.68	-1,165.75	-1,592.57	-1,503.01	-1,771.68	-1,717.93
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	-129.76	-188.94	-216.66	-329.47	-455.67	-426.77	-506.86	-491.68	0.00	-154.92	-193.23	-217.49	-327.42	-452.91	-424.06	-503.67	-488.67
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-169.38	-246.95	-281.29	-408.27	-557.12	-526.26	-619.95	-601.00	0.00	-201.86	-252.46	-282.33	-405.63	-553.58	-522.79	-615.86	-597.15
Poughkeepsie, NY	Moderate	-	100	-	0.00	-46.31	-67.46	-77.23	-116.12	-160.09	-150.24	-178.09	-172.73	0.00	-55.27	-68.98	-77.52	-115.39	-159.11	-149.27	-176.96	-171.66
Providence (All RI), RI	Moderate	-	100	-	0.00	-70.36	-102.57	-116.89	-170.35	-232.75	-219.68	-258.98	-251.08	0.00	-83.86	-104.86	-117.33	-169.26	-231.27	-218.24	-257.28	-249.48
Reading, PA	-	Nonattainment	-	100	0.00	-18.35	-26.74	-30.51	-44.90	-61.52	-57.96	-68.44	-66.36	0.00	-21.87	-27.34	-30.63	-44.61	-61.13	-57.58	-68.00	-65.95
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	-42.19	-61.51	-70.09	-102.05	-139.38	-131.58	-155.09	-150.36	0.00	-50.29	-62.89	-70.36	-101.39	-138.50	-130.72	-154.08	-149.40
Rochester, NY	Subpart 1	-	100	-	0.00	-59.38	-86.52	-98.87	-146.87	-201.78	-189.78	-224.49	-217.70	0.00	-70.83	-88.46	-99.24	-145.94	-200.53	-188.55	-223.05	-216.34

Table C-42
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Volatile Organic Compounds 2020

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Rome, GA	-	Nonattainment	-	100	0.00	-16.75	-24.43	-27.78	-39.90	-54.27	-51.37	-60.39	-58.54	0.00	-19.95	-24.97	-27.88	-39.64	-53.92	-51.02	-59.99	-58.16
Sacramento Metro, CA	Serious	-	50	-	0.00	-132.88	-193.66	-221.05	-325.67	-446.36	-420.45	-496.63	-481.55	0.00	-158.45	-198.00	-221.88	-323.59	-443.57	-417.71	-493.41	-478.51
San Diego, CA	Subpart 1	-	100	-	0.00	-91.13	-132.62	-152.53	-236.66	-329.13	-307.17	-366.05	-355.17	0.00	-108.88	-135.65	-153.12	-235.21	-327.18	-305.25	-363.79	-353.04
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-464.34	-676.84	-771.84	-1,129.58	-1,545.20	-1,457.32	-1,719.33	-1,666.96	0.00	-553.55	-691.98	-774.72	-1,122.32	-1,535.46	-1,447.77	-1,708.08	-1,656.37
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	-254.48	-370.92	-423.11	-620.53	-849.39	-800.76	-945.09	-916.33	0.00	-303.39	-379.22	-424.69	-616.56	-844.05	-795.52	-938.92	-910.52
Sheboygan, WI	Moderate	-	100	-	0.00	-6.49	-9.46	-10.79	-15.88	-21.76	-20.50	-24.21	-23.47	0.00	-7.74	-9.67	-10.83	-15.78	-21.62	-20.37	-24.05	-23.32
Springfield (Western MA), MA	Moderate	-	100	-	0.00	-24.91	-36.26	-41.61	-63.59	-88.06	-82.40	-97.95	-95.02	0.00	-29.74	-37.09	-41.77	-63.19	-87.53	-81.88	-97.34	-94.44
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-352.90	-514.61	-585.52	-843.28	-1,148.08	-1,086.08	-1,277.63	-1,238.44	0.00	-420.45	-526.06	-587.69	-837.79	-1,140.73	-1,078.86	-1,269.14	-1,230.44
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-24.71	-36.04	-40.95	-58.39	-79.25	-75.11	-88.20	-85.48	0.00	-29.43	-36.84	-41.10	-58.00	-78.73	-74.61	-87.60	-84.92
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	0.00	-2.26	-3.30	-3.75	-5.29	-7.16	-6.80	-7.97	-7.72	0.00	-2.69	-3.37	-3.76	-5.26	-7.11	-6.75	-7.92	-7.67
Ventura Co, CA	Serious	-	50	-	0.00	-21.58	-31.41	-36.06	-55.20	-76.49	-71.55	-85.07	-82.53	0.00	-25.77	-32.13	-36.20	-54.86	-76.03	-71.10	-84.54	-82.03
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	-158.42	-230.68	-264.50	-402.00	-555.89	-520.67	-618.34	-599.81	0.00	-189.13	-235.92	-265.51	-399.49	-552.52	-517.37	-614.44	-596.14
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-24.42	-35.62	-40.50	-58.05	-78.92	-74.73	-87.83	-85.13	0.00	-29.09	-36.41	-40.65	-57.67	-78.41	-74.23	-87.24	-84.58
York, PA	-	Nonattainment	-	100	0.00	-17.18	-25.04	-28.59	-42.22	-57.90	-54.52	-64.42	-62.47	0.00	-20.49	-25.60	-28.70	-41.95	-57.54	-54.16	-64.00	-62.07

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

**Table C-43
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-158.33	-227.62	-254.01	-401.87	-547.37	-531.75	-634.23	-600.17	0.00	-224.70	-235.96	-251.86	-389.12	-530.37	-515.02	-614.56	-581.62
Allegan Co, MI	Subpart 1	-	100	-	0.00	-26.78	-38.48	-42.79	-65.49	-88.15	-85.95	-101.79	-96.51	0.00	-38.01	-39.89	-42.43	-63.34	-85.29	-83.13	-98.48	-93.39
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	-5.23	-7.56	-8.74	-18.36	-27.15	-25.74	-32.16	-30.06	0.00	-7.41	-7.84	-8.67	-17.93	-26.56	-25.16	-31.48	-29.42
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	-783.20	-1,126.11	-1,257.73	-2,005.92	-2,739.76	-2,659.30	-3,177.03	-3,005.10	0.00	-1,111.45	-1,167.37	-1,247.09	-1,942.80	-2,655.58	-2,576.46	-3,079.61	-2,913.21
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	-181.28	-261.15	-294.86	-517.88	-729.59	-701.56	-853.42	-803.32	0.00	-257.18	-270.75	-292.42	-503.11	-709.81	-682.11	-830.50	-781.72
Baton Rouge, LA	Moderate	-	100	-	0.00	-395.88	-568.27	-628.68	-912.80	-1,204.75	-1,181.82	-1,383.08	-1,315.63	0.00	-561.94	-589.01	-623.25	-881.19	-1,162.75	-1,140.46	-1,334.54	-1,269.81
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-416.27	-597.41	-660.13	-946.49	-1,243.07	-1,221.30	-1,424.96	-1,356.60	0.00	-590.90	-619.22	-654.42	-913.29	-1,198.98	-1,177.88	-1,374.02	-1,308.50
Birmingham, AL	-	Nonattainment	-	100	0.00	-146.42	-210.43	-234.42	-364.81	-494.04	-480.79	-571.49	-541.31	0.00	-207.80	-218.14	-232.43	-353.04	-478.36	-465.35	-553.35	-524.19
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	-261.54	-377.03	-427.33	-774.79	-1,101.81	-1,056.53	-1,292.13	-1,214.53	0.00	-371.01	-390.91	-423.83	-753.41	-1,073.13	-1,028.33	-1,258.87	-1,183.20
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	-37.57	-54.12	-61.14	-107.83	-152.11	-146.21	-177.99	-167.51	0.00	-53.30	-56.11	-60.63	-104.77	-148.01	-142.18	-173.23	-163.03
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	-109.84	-157.99	-176.86	-288.15	-396.41	-383.92	-460.62	-435.19	0.00	-155.86	-163.78	-175.37	-279.28	-384.57	-372.27	-446.91	-422.26
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-77.75	-111.66	-123.85	-184.74	-246.35	-240.89	-283.68	-269.38	0.00	-110.36	-115.74	-122.79	-178.51	-238.07	-232.73	-274.11	-260.35
Charleston, WV	-	Nonattainment	-	100	0.00	-25.80	-37.11	-41.55	-67.67	-93.09	-90.16	-108.16	-102.19	0.00	-36.61	-38.47	-41.20	-65.59	-90.30	-87.42	-104.94	-99.16
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	-235.33	-338.27	-377.19	-592.30	-804.65	-782.31	-931.64	-881.98	0.00	-333.98	-350.66	-373.99	-573.36	-779.42	-757.47	-902.44	-854.44
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-188.19	-270.21	-299.37	-441.23	-585.72	-573.54	-673.58	-640.11	0.00	-267.13	-280.08	-296.80	-426.18	-565.71	-553.84	-650.45	-618.28
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-657.72	-946.16	-1,059.68	-1,733.85	-2,388.63	-2,312.42	-2,776.66	-2,622.79	0.00	-933.32	-980.86	-1,050.76	-1,680.70	-2,317.68	-2,242.59	-2,694.51	-2,545.32
Chico, CA	Subpart 1	-	100	-	0.00	-29.68	-42.68	-47.68	-76.22	-104.19	-101.10	-120.84	-114.29	0.00	-42.12	-44.24	-47.28	-73.83	-101.00	-97.96	-117.15	-110.81
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	-205.02	-294.84	-329.67	-531.25	-728.15	-706.01	-845.22	-799.03	0.00	-290.94	-305.64	-326.88	-514.71	-706.09	-684.29	-819.67	-774.94
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	-218.90	-314.96	-353.17	-584.09	-807.51	-780.91	-939.63	-887.06	0.00	-310.62	-326.52	-350.21	-566.38	-783.86	-757.64	-912.24	-861.24
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	-233.11	-335.07	-373.55	-585.45	-794.82	-772.90	-920.07	-871.13	0.00	-330.83	-347.34	-370.38	-566.70	-769.83	-748.31	-891.16	-843.85
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	-728.99	-1,048.46	-1,172.82	-1,897.66	-2,604.58	-2,524.33	-3,024.49	-2,858.58	0.00	-1,034.49	-1,086.89	-1,162.93	-1,838.81	-2,526.06	-2,447.06	-2,933.61	-2,772.87
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	-85.89	-123.48	-137.86	-219.02	-298.76	-290.10	-346.31	-327.64	0.00	-121.88	-128.00	-136.69	-212.10	-289.53	-281.02	-335.63	-317.57
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-349.93	-503.37	-563.60	-919.77	-1,266.02	-1,225.95	-1,471.33	-1,389.98	0.00	-496.56	-521.82	-558.85	-891.50	-1,228.29	-1,188.81	-1,427.64	-1,348.78
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-550.63	-791.66	-883.79	-1,403.49	-1,914.12	-1,858.74	-2,218.67	-2,099.10	0.00	-781.43	-820.66	-876.31	-1,359.13	-1,854.97	-1,800.53	-2,150.23	-2,034.55
Door Co, WI	Subpart 1	-	100	-	0.00	-1.52	-2.19	-2.50	-4.79	-6.91	-6.60	-8.14	-7.63	0.00	-2.15	-2.27	-2.48	-4.66	-6.74	-6.43	-7.94	-7.45
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	-3.96	-5.68	-6.27	-8.91	-11.67	-11.47	-13.36	-12.73	0.00	-5.62	-5.88	-6.21	-8.60	-11.25	-11.06	-12.88	-12.27
Evansville, IN	-	Nonattainment	-	100	0.00	-97.93	-140.62	-155.85	-230.56	-306.50	-299.99	-352.62	-335.02	0.00	-139.00	-145.75	-154.51	-222.73	-296.08	-289.74	-340.58	-323.66
Greater Connecticut, CT	Moderate	-	100	-	0.00	-140.61	-202.31	-226.85	-375.07	-518.49	-501.43	-603.31	-569.56	0.00	-199.52	-209.74	-224.95	-363.70	-503.30	-486.48	-585.71	-552.98
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	-87.03	-125.15	-139.86	-224.22	-306.80	-297.62	-355.94	-336.58	0.00	-123.51	-129.74	-138.68	-217.20	-297.43	-288.41	-345.11	-326.36
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	-71.53	-102.91	-115.32	-189.70	-261.80	-253.31	-304.48	-287.53	0.00	-101.50	-106.68	-114.35	-183.92	-254.08	-245.71	-295.54	-279.09

Table C-43
 Alternative CAFE Standards
 Emission Changes a/ by Nonattainment Area
 Volatile Organic Compounds 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	-10.01	-14.37	-15.87	-22.62	-29.65	-29.15	-33.96	-32.34	0.00	-14.21	-14.89	-15.73	-21.83	-28.59	-28.10	-32.74	-31.19
Hickory, NC	-	Nonattainment	-	100	0.00	-19.14	-27.52	-30.75	-49.29	-67.43	-65.42	-78.23	-73.97	0.00	-27.16	-28.53	-30.49	-47.74	-65.37	-63.39	-75.84	-71.73
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-2,478.09	-3,557.61	-3,938.49	-5,758.96	-7,621.68	-7,470.26	-8,757.01	-8,326.13	0.00	-3,517.52	-3,687.55	-3,904.57	-5,560.94	-7,358.53	-7,211.14	-8,452.89	-8,039.02
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-301.29	-432.41	-477.88	-686.23	-901.80	-885.84	-1,033.95	-984.24	0.00	-427.69	-448.20	-473.74	-662.19	-869.88	-854.41	-997.07	-949.42
Imperial Co, CA	Moderate	-	100	-	0.00	-20.24	-29.13	-32.64	-53.73	-74.17	-71.76	-86.27	-81.46	0.00	-28.73	-30.19	-32.37	-52.10	-71.99	-69.61	-83.74	-79.08
Indianapolis, IN	-	Nonattainment	-	100	0.00	-211.49	-304.01	-339.03	-532.94	-724.28	-704.09	-838.67	-793.93	0.00	-300.15	-315.15	-336.15	-515.92	-701.60	-681.76	-812.43	-769.17
Jamestown, NY	Subpart 1	-	100	-	0.00	-22.85	-32.84	-36.57	-56.83	-76.92	-74.87	-88.96	-84.27	0.00	-32.43	-34.04	-36.26	-54.99	-74.47	-72.46	-86.13	-81.60
Jefferson Co, NY	Moderate	-	100	-	0.00	-9.49	-13.66	-15.34	-25.78	-35.82	-34.59	-41.74	-39.37	0.00	-13.46	-14.16	-15.21	-25.01	-34.79	-33.58	-40.55	-38.25
Johnstown, PA	-	Nonattainment	-	100	0.00	-71.41	-102.50	-113.35	-163.79	-215.77	-211.79	-247.57	-235.57	0.00	-101.37	-106.25	-112.37	-158.09	-208.20	-204.33	-238.82	-227.31
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-198.33	-284.62	-314.34	-448.41	-587.72	-577.80	-673.31	-641.23	0.00	-281.54	-295.00	-311.62	-432.60	-566.73	-557.12	-649.06	-618.33
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-397.67	-571.00	-632.80	-935.38	-1,243.06	-1,216.80	-1,429.99	-1,358.69	0.00	-564.45	-591.87	-627.37	-903.57	-1,200.78	-1,175.16	-1,381.11	-1,312.55
Lancaster, PA	-	Nonattainment	-	100	0.00	-24.07	-34.69	-39.28	-70.60	-100.16	-96.11	-117.38	-110.37	0.00	-34.14	-35.96	-38.95	-68.64	-97.52	-93.52	-114.32	-107.49
Las Vegas, NV	Subpart 1	-	100	-	0.00	-119.30	-171.72	-192.98	-325.57	-452.99	-437.22	-528.05	-498.01	0.00	-169.27	-178.02	-191.37	-315.90	-440.06	-424.50	-513.07	-483.89
Libby, MT	-	Nonattainment	-	100	0.00	-4.01	-5.76	-6.37	-9.19	-12.10	-11.88	-13.89	-13.21	0.00	-5.70	-5.97	-6.31	-8.87	-11.68	-11.46	-13.39	-12.75
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-163.00	-233.88	-258.13	-365.49	-477.61	-469.99	-546.66	-520.88	0.00	-231.39	-242.42	-255.89	-352.50	-460.37	-453.01	-526.75	-502.08
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-1,308.90	-1,883.43	-2,112.65	-3,505.29	-4,851.15	-4,689.86	-5,646.49	-5,329.74	0.00	-1,857.29	-1,952.53	-2,094.94	-3,399.35	-4,709.65	-4,550.63	-5,482.63	-5,175.24
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-1,062.56	-1,524.85	-1,684.38	-2,406.76	-3,156.59	-3,102.64	-3,616.99	-3,444.27	0.00	-1,508.33	-1,580.50	-1,669.80	-2,322.04	-3,044.10	-2,991.86	-3,487.02	-3,321.55
Louisville, KY-IN	-	Nonattainment	-	100	0.00	-131.92	-189.64	-211.61	-334.42	-455.33	-442.38	-527.52	-499.22	0.00	-187.21	-196.59	-209.81	-323.79	-441.17	-428.44	-511.14	-483.77
Macon, GA	-	Nonattainment	-	100	0.00	-96.82	-138.99	-153.82	-224.10	-296.18	-290.42	-340.15	-323.49	0.00	-137.43	-144.07	-152.49	-216.37	-285.90	-280.30	-328.28	-312.28
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	-5.07	-7.31	-8.29	-15.06	-21.43	-20.55	-25.14	-23.62	0.00	-7.20	-7.58	-8.22	-14.65	-20.87	-20.00	-24.49	-23.02
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	-7.52	-10.83	-12.21	-21.25	-29.84	-28.72	-34.88	-32.85	0.00	-10.67	-11.23	-12.11	-20.63	-29.03	-27.92	-33.93	-31.95
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	-81.58	-117.16	-129.99	-194.42	-259.52	-253.69	-298.94	-283.82	0.00	-115.79	-121.44	-128.88	-187.89	-250.83	-245.13	-288.89	-274.34
Memphis, TN-AR	Moderate	-	100	-	0.00	-190.56	-273.75	-304.24	-462.70	-621.44	-606.32	-717.13	-680.18	0.00	-270.46	-283.76	-301.64	-447.41	-601.10	-586.29	-693.60	-657.98
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	-168.21	-241.97	-270.95	-442.59	-609.38	-590.04	-708.26	-669.08	0.00	-238.70	-250.84	-268.67	-428.99	-591.24	-572.19	-687.26	-649.27
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	-12.67	-18.24	-20.46	-34.07	-47.20	-45.61	-54.95	-51.86	0.00	-17.98	-18.91	-20.29	-33.04	-45.83	-44.26	-53.36	-50.36
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-1,957.47	-2,814.04	-3,139.75	-4,959.74	-6,751.88	-6,560.22	-7,822.07	-7,402.70	0.00	-2,777.97	-2,917.09	-3,113.13	-4,802.13	-6,541.79	-6,353.44	-7,578.98	-7,173.38
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	-53.52	-76.84	-85.11	-125.08	-165.87	-162.47	-190.69	-181.24	0.00	-75.96	-79.64	-84.37	-120.81	-160.18	-156.87	-184.11	-175.04
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-1,019.95	-1,465.69	-1,631.72	-2,523.33	-3,409.53	-3,320.36	-3,941.43	-3,734.64	0.00	-1,447.55	-1,519.32	-1,617.82	-2,441.39	-3,300.39	-3,212.93	-3,815.19	-3,615.53
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	-255.36	-368.18	-417.65	-762.36	-1,086.24	-1,041.00	-1,274.54	-1,197.65	0.00	-362.24	-381.74	-414.23	-741.46	-1,058.21	-1,013.43	-1,242.03	-1,167.02
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-357.58	-513.75	-571.27	-873.37	-1,175.25	-1,145.97	-1,356.97	-1,286.64	0.00	-507.51	-532.54	-566.39	-844.68	-1,137.05	-1,108.36	-1,312.79	-1,244.95

Table C-43
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Volatile Organic Compounds 2030

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Poughkeepsie, NY	Moderate	-	100	-	0.00	-93.80	-135.07	-152.15	-262.10	-367.06	-353.59	-428.66	-403.86	0.00	-133.08	-140.03	-150.89	-254.47	-356.86	-343.56	-416.84	-392.72
Providence (All RI), RI	Moderate	-	100	-	0.00	-147.63	-212.16	-236.31	-367.16	-496.93	-483.68	-574.73	-544.42	0.00	-209.52	-219.93	-234.30	-355.29	-481.12	-468.12	-556.44	-527.17
Reading, PA	-	Nonattainment	-	100	0.00	-38.26	-55.01	-61.44	-97.88	-133.65	-129.74	-154.96	-146.58	0.00	-54.30	-57.03	-60.92	-94.80	-129.54	-125.69	-150.20	-142.10
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	-87.98	-126.46	-140.97	-220.73	-299.57	-291.34	-346.75	-328.32	0.00	-124.86	-131.09	-139.77	-213.65	-290.14	-282.06	-335.84	-318.03
Rochester, NY	Subpart 1	-	100	-	0.00	-122.85	-176.73	-197.95	-324.20	-446.76	-432.47	-519.38	-490.58	0.00	-174.33	-183.21	-196.29	-314.27	-433.51	-419.42	-504.04	-476.11
Rome, GA	-	Nonattainment	-	100	0.00	-35.63	-51.16	-56.72	-84.16	-112.01	-109.59	-128.91	-122.45	0.00	-50.57	-53.03	-56.23	-81.31	-108.22	-105.86	-124.52	-118.31
Sacramento Metro, CA	Serious	-	50	-	0.00	-273.27	-393.09	-440.07	-717.41	-987.14	-956.00	-1,147.10	-1,083.75	0.00	-387.78	-407.50	-436.37	-695.34	-957.68	-927.00	-1,112.99	-1,051.58
San Diego, CA	Subpart 1	-	100	-	0.00	-177.58	-256.29	-292.36	-557.70	-804.44	-768.15	-947.03	-888.25	0.00	-251.86	-265.75	-289.99	-543.09	-784.80	-748.84	-924.22	-866.78
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-968.55	-1,392.36	-1,553.43	-2,452.44	-3,337.91	-3,243.36	-3,866.75	-3,659.56	0.00	-1,374.53	-1,443.35	-1,540.25	-2,374.46	-3,233.97	-3,141.06	-3,746.48	-3,546.11
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	-527.55	-758.57	-847.47	-1,355.10	-1,852.49	-1,797.60	-2,148.69	-2,032.13	0.00	-748.65	-786.36	-840.30	-1,312.57	-1,795.77	-1,741.78	-2,083.05	-1,970.21
Sheboygan, WI	Moderate	-	100	-	0.00	-13.50	-19.41	-21.69	-34.67	-47.40	-45.99	-54.97	-51.99	0.00	-19.16	-20.13	-21.51	-33.59	-45.95	-44.57	-53.29	-50.41
Springfield (Western MA), MA	Moderate	-	100	-	0.00	-50.29	-72.47	-81.92	-145.37	-205.43	-197.35	-240.50	-226.27	0.00	-71.35	-75.13	-81.24	-141.27	-199.93	-191.95	-234.13	-220.27
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-749.42	-1,076.29	-1,194.11	-1,785.22	-2,382.60	-2,329.15	-2,744.35	-2,605.66	0.00	-1,063.70	-1,115.63	-1,183.87	-1,725.20	-2,302.78	-2,250.57	-2,652.08	-2,518.56
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-52.90	-75.93	-84.00	-121.85	-160.77	-157.73	-184.55	-175.56	0.00	-75.09	-78.70	-83.27	-117.63	-155.16	-152.20	-178.07	-169.44
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	0.00	-4.87	-6.99	-7.71	-10.91	-14.25	-14.02	-16.30	-15.54	0.00	-6.92	-7.24	-7.65	-10.52	-13.73	-13.51	-15.71	-14.97
Ventura Co, CA	Serious	-	50	-	0.00	-42.66	-61.51	-69.81	-127.94	-182.50	-174.84	-214.20	-201.24	0.00	-60.51	-63.77	-69.24	-124.44	-177.81	-170.23	-208.77	-196.12
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	-318.70	-459.19	-518.89	-917.74	-1,295.62	-1,245.07	-1,516.40	-1,426.91	0.00	-452.14	-476.08	-514.61	-891.76	-1,260.82	-1,210.85	-1,476.05	-1,388.90
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-52.12	-74.83	-82.89	-121.98	-161.83	-158.50	-186.07	-176.84	0.00	-73.98	-77.56	-82.18	-117.81	-156.29	-153.04	-179.67	-170.80
York, PA	-	Nonattainment	-	100	0.00	-35.62	-51.23	-57.30	-92.65	-127.14	-123.23	-147.63	-139.53	0.00	-50.55	-53.11	-56.82	-89.78	-123.30	-119.46	-143.19	-135.35

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.

Table C-44
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Volatile Organic Compounds 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Albany-Schenectady-Troy, NY	Subpart 1	-	100	-	0.00	-256.41	-366.87	-407.60	-654.37	-891.54	-873.15	-1,043.68	-982.21	0.00	-369.85	-375.10	-396.08	-619.89	-845.65	-827.93	-990.52	-932.03
Allegan Co, MI	Subpart 1	-	100	-	0.00	-43.48	-62.17	-68.81	-106.34	-142.87	-140.40	-166.47	-157.09	0.00	-62.78	-63.53	-66.82	-100.45	-135.05	-132.69	-157.41	-148.53
Amador and Calaveras Cos (Central Mountain Counties), CA	Subpart 1	-	100	-	0.00	-8.25	-11.88	-13.73	-30.50	-45.65	-43.74	-55.04	-50.94	0.00	-11.77	-12.21	-13.45	-29.48	-44.27	-42.38	-53.43	-49.42
Atlanta, GA	Moderate	Nonattainment	100	100	0.00	-1,267.57	-1,813.94	-2,017.19	-3,268.40	-4,467.54	-4,371.94	-5,235.58	-4,924.14	0.00	-1,827.93	-1,854.85	-1,960.57	-3,098.26	-4,240.98	-4,148.72	-4,973.12	-4,676.40
Baltimore, MD	Moderate	Nonattainment	100	100	0.00	-291.10	-417.44	-469.75	-850.06	-1,204.66	-1,168.78	-1,428.36	-1,334.46	0.00	-418.41	-427.53	-457.68	-811.94	-1,153.61	-1,118.51	-1,369.07	-1,278.56
Baton Rouge, LA	Moderate	-	100	-	0.00	-645.04	-921.43	-1,014.23	-1,475.51	-1,936.25	-1,913.88	-2,237.79	-2,121.55	0.00	-932.78	-940.94	-983.66	-1,387.14	-1,819.11	-1,798.41	-2,102.38	-1,993.60
Beaumont/Port Arthur, TX	Moderate	-	100	-	0.00	-678.84	-969.50	-1,065.76	-1,528.25	-1,993.57	-1,973.46	-2,299.22	-2,182.41	0.00	-981.99	-989.85	-1,033.36	-1,435.02	-1,870.05	-1,851.70	-2,156.46	-2,047.51
Birmingham, AL	-	Nonattainment	-	100	0.00	-237.41	-339.58	-376.57	-593.23	-802.75	-787.50	-937.60	-883.53	0.00	-342.63	-347.11	-365.79	-561.18	-760.13	-745.50	-888.26	-836.94
Boston-Lawrence-Worcester (E. MA), MA	Moderate	-	100	-	0.00	-418.80	-601.01	-679.21	-1,274.65	-1,825.96	-1,767.11	-2,172.38	-2,025.65	0.00	-601.25	-615.89	-662.32	-1,220.29	-1,753.02	-1,695.31	-2,087.59	-1,945.75
Boston-Manchester-Portsmouth (SE), NH	Moderate	-	100	-	0.00	-60.30	-86.48	-97.37	-177.06	-251.28	-243.71	-298.08	-278.41	0.00	-86.66	-88.58	-94.88	-169.17	-240.71	-233.31	-285.80	-266.84
Buffalo-Niagara Falls, NY	Subpart 1	-	100	-	0.00	-177.47	-254.08	-283.26	-470.31	-648.31	-633.14	-761.88	-715.42	0.00	-255.75	-259.90	-275.45	-446.60	-616.71	-602.02	-725.26	-680.86
Canton-Massillon, OH	-	Nonattainment	-	100	0.00	-126.45	-180.72	-199.49	-299.33	-397.68	-391.88	-461.59	-436.53	0.00	-182.72	-184.62	-193.59	-282.11	-374.82	-369.35	-435.14	-411.55
Charleston, WV	-	Nonattainment	-	100	0.00	-41.69	-59.69	-66.54	-110.45	-152.23	-148.68	-178.90	-167.99	0.00	-60.08	-61.05	-64.71	-104.88	-144.81	-141.36	-170.29	-159.87
Charlotte-Gastonia-Rock Hill, NC-SC	Moderate	-	100	-	0.00	-381.32	-545.52	-605.56	-963.86	-1,309.18	-1,283.13	-1,531.02	-1,441.68	0.00	-550.16	-557.69	-588.35	-912.50	-1,240.83	-1,215.79	-1,451.87	-1,366.96
Chattanooga, AL-TN-GA	-	Nonattainment	-	100	0.00	-306.33	-437.71	-482.54	-714.18	-943.70	-931.19	-1,093.31	-1,035.07	0.00	-442.79	-447.06	-468.14	-672.34	-888.21	-876.49	-1,029.13	-974.45
Chicago-Gary-Lake Co, IL-IN	Moderate	Nonattainment	100	100	0.00	-1,062.39	-1,521.11	-1,696.65	-2,830.85	-3,908.75	-3,815.82	-4,596.00	-4,314.39	0.00	-1,530.78	-1,556.04	-1,650.05	-2,689.12	-3,719.77	-3,629.65	-4,376.93	-4,107.67
Chico, CA	Subpart 1	-	100	-	0.00	-48.03	-68.74	-76.46	-124.21	-169.95	-166.27	-199.23	-187.34	0.00	-69.26	-70.29	-74.32	-117.77	-161.37	-157.82	-189.28	-177.96
Cincinnati-Hamilton, OH-KY-IN	Subpart 1	Nonattainment	100	100	0.00	-331.55	-474.56	-528.37	-866.32	-1,189.07	-1,162.47	-1,395.40	-1,311.37	0.00	-477.96	-485.34	-513.66	-821.93	-1,129.92	-1,104.20	-1,326.86	-1,246.68
Cleveland-Akron-Lorain, OH	Subpart 1	Nonattainment	100	100	0.00	-353.28	-505.94	-565.05	-954.44	-1,323.30	-1,290.57	-1,558.07	-1,461.47	0.00	-508.86	-517.64	-549.67	-907.44	-1,260.59	-1,228.79	-1,485.35	-1,392.86
Columbus, OH	Subpart 1	Nonattainment	100	100	0.00	-377.78	-540.43	-599.79	-952.57	-1,292.82	-1,267.34	-1,511.48	-1,423.50	0.00	-545.09	-552.47	-582.71	-901.66	-1,225.08	-1,200.60	-1,433.04	-1,349.45
Dallas-Fort Worth, TX	Moderate	-	100	-	0.00	-1,178.54	-1,687.02	-1,879.22	-3,095.56	-4,255.65	-4,158.83	-4,996.73	-4,694.40	0.00	-1,698.76	-1,725.46	-1,827.10	-2,937.91	-4,045.56	-3,951.86	-4,753.27	-4,464.64
Dayton-Springfield, OH	-	Nonattainment	-	100	0.00	-139.04	-198.96	-221.16	-356.76	-486.90	-476.66	-570.31	-536.54	0.00	-200.54	-203.44	-214.93	-338.08	-462.03	-452.16	-541.50	-509.35
Denver-Boulder-Greeley-Ft. Collins, CO (EAC)	Subpart 1	-	100	-	0.00	-565.35	-809.41	-902.54	-1,501.39	-2,070.99	-2,022.24	-2,434.32	-2,285.59	0.00	-814.67	-827.96	-877.69	-1,425.93	-1,970.37	-1,923.12	-2,317.69	-2,175.53
Detroit-Ann Arbor, MI	Marginal	Nonattainment	100	100	0.00	-891.47	-1,275.62	-1,417.85	-2,286.02	-3,119.32	-3,053.85	-3,653.48	-3,437.28	0.00	-1,285.74	-1,304.30	-1,377.91	-2,166.24	-2,959.86	-2,896.74	-3,468.76	-3,262.92
Door Co, WI	Subpart 1	-	100	-	0.00	-2.42	-3.48	-3.96	-7.90	-11.52	-11.10	-13.77	-12.81	0.00	-3.47	-3.57	-3.87	-7.59	-11.10	-10.69	-13.29	-12.35
Essex Co, NY (Whiteface Mountain)	Subpart 1	-	100	-	0.00	-6.46	-9.22	-10.13	-14.38	-18.68	-18.51	-21.52	-20.44	0.00	-9.34	-9.41	-9.82	-13.49	-17.51	-17.35	-20.16	-19.16
Evansville, IN	-	Nonattainment	-	100	0.00	-159.36	-227.72	-251.14	-373.31	-494.13	-487.37	-572.80	-542.11	0.00	-230.32	-232.60	-243.67	-351.56	-465.28	-458.93	-539.44	-510.59
Greater Connecticut, CT	Moderate	-	100	-	0.00	-226.93	-324.99	-362.95	-612.88	-849.65	-828.65	-1,000.34	-938.35	0.00	-326.87	-332.51	-353.07	-582.68	-809.36	-788.96	-953.63	-894.27
Greensboro-Winston Salem-High Point, NC	-	Nonattainment	-	100	0.00	-140.80	-201.52	-224.23	-365.50	-500.64	-489.68	-587.11	-551.97	0.00	-203.02	-206.08	-217.96	-346.62	-475.49	-464.91	-557.98	-524.47
Harrisburg-Lebanon-Carlisle, PA	-	Nonattainment	-	100	0.00	-115.49	-165.37	-184.57	-309.85	-428.71	-418.31	-504.43	-473.34	0.00	-166.37	-169.18	-179.52	-294.46	-408.19	-398.10	-480.64	-450.89

**Table C-44
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area**

Volatile Organic Compounds 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
	O3	PM2.5	O3	PM2.5	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
					No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Haywood and Swain Cos (Great Smoky Mountains National Park), NC	Subpart 1	-	100	-	0.00	-16.34	-23.33	-25.63	-36.51	-47.50	-47.05	-54.73	-51.97	0.00	-23.63	-23.82	-24.85	-34.26	-44.52	-44.12	-51.29	-48.73
Hickory, NC	-	Nonattainment	-	100	0.00	-30.97	-44.32	-49.31	-80.34	-110.02	-107.62	-129.02	-121.30	0.00	-44.65	-45.32	-47.93	-76.19	-104.50	-102.17	-122.62	-115.26
Houston-Galveston-Brazoria, TX	Severe 15	-	100	-	0.00	-4,035.85	-5,765.91	-6,351.21	-9,314.99	-12,263.92	-12,112.30	-14,190.13	-13,444.10	0.00	-5,835.04	-5,888.53	-6,160.71	-8,762.89	-11,531.82	-11,390.67	-13,343.67	-12,644.39
Huntington-Ashland, WV-KY-OH	-	Nonattainment	-	100	0.00	-491.29	-701.66	-771.45	-1,108.17	-1,446.64	-1,431.79	-1,668.87	-1,583.85	0.00	-710.66	-716.41	-748.02	-1,040.72	-1,357.27	-1,343.69	-1,565.57	-1,486.24
Imperial Co, CA	Moderate	-	100	-	0.00	-32.68	-46.80	-52.24	-87.77	-121.48	-118.52	-142.94	-134.13	0.00	-47.08	-47.88	-50.81	-83.42	-115.67	-112.80	-136.21	-127.77
Indianapolis, IN	-	Nonattainment	-	100	0.00	-342.67	-490.23	-544.26	-867.35	-1,178.60	-1,155.03	-1,378.51	-1,297.97	0.00	-494.38	-501.18	-528.80	-821.20	-1,117.19	-1,094.52	-1,307.40	-1,230.83
Jamestown, NY	Subpart 1	-	100	-	0.00	-37.05	-52.99	-58.76	-92.40	-124.95	-122.60	-145.91	-137.52	0.00	-53.47	-54.17	-57.07	-87.40	-118.30	-116.04	-138.21	-130.24
Jefferson Co, NY	Moderate	-	100	-	0.00	-15.29	-21.91	-24.52	-42.17	-58.82	-57.29	-69.39	-65.02	0.00	-22.02	-22.42	-23.86	-40.15	-56.12	-54.62	-66.25	-62.06
Johnstown, PA	-	Nonattainment	-	100	0.00	-116.40	-166.26	-182.91	-264.65	-346.51	-342.69	-400.15	-379.54	0.00	-168.34	-169.77	-177.38	-248.69	-325.35	-321.84	-375.70	-356.43
Kern Co (Eastern Kern), CA	Subpart 1	-	100	-	0.00	-323.54	-462.03	-507.65	-723.69	-941.72	-932.80	-1,085.17	-1,030.55	0.00	-468.10	-471.70	-492.16	-679.21	-882.81	-874.71	-1,017.08	-966.21
Knoxville, TN	Subpart 1	Nonattainment	100	100	0.00	-647.16	-924.77	-1,019.79	-1,514.40	-2,003.76	-1,976.55	-2,322.49	-2,198.20	0.00	-935.39	-944.57	-989.44	-1,426.07	-1,886.57	-1,861.04	-2,186.96	-2,070.17
Lancaster, PA	-	Nonattainment	-	100	0.00	-38.57	-55.34	-62.46	-116.09	-165.82	-160.58	-197.11	-183.89	0.00	-55.39	-56.70	-60.90	-111.07	-159.09	-153.96	-189.29	-176.52
Las Vegas, NV	Subpart 1	-	100	-	0.00	-192.22	-275.40	-308.33	-532.81	-744.25	-724.56	-878.41	-822.82	0.00	-276.69	-281.87	-300.09	-507.36	-710.26	-691.08	-838.98	-785.62
Libby, MT	-	Nonattainment	-	100	0.00	-6.54	-9.34	-10.28	-14.85	-19.43	-19.22	-22.44	-21.28	0.00	-9.46	-9.54	-9.97	-13.95	-18.24	-18.05	-21.06	-19.99
Liberty-Clairton, PA	-	Nonattainment	-	100	0.00	-266.03	-379.86	-417.05	-589.46	-764.28	-757.73	-879.57	-835.92	0.00	-384.97	-387.77	-404.26	-552.83	-715.78	-709.91	-823.53	-782.96
Los Angeles South Coast Air Basin, CA	Severe 17	Nonattainment	25	100	0.00	-2,111.87	-3,024.64	-3,379.36	-5,729.27	-7,953.16	-7,754.16	-9,367.82	-8,785.06	0.00	-3,041.56	-3,094.78	-3,287.67	-5,448.50	-7,578.49	-7,385.10	-8,933.34	-8,375.16
Los Angeles-San Bernardino Cos (W Mojave Desert), CA	Moderate	-	100	-	0.00	-1,733.17	-2,475.12	-2,719.94	-3,884.85	-5,059.35	-5,010.39	-5,831.64	-5,537.23	0.00	-2,507.41	-2,526.97	-2,637.05	-3,646.66	-4,743.81	-4,699.33	-5,466.99	-5,192.64
Louisville, KY-IN	-	Nonattainment	-	100	0.00	-213.65	-305.69	-339.58	-544.49	-741.50	-726.29	-867.91	-816.86	0.00	-308.19	-312.54	-329.98	-515.75	-703.25	-688.60	-823.61	-775.04
Macon, GA	-	Nonattainment	-	100	0.00	-157.72	-225.32	-248.10	-362.37	-476.29	-470.59	-550.77	-521.99	0.00	-228.06	-230.10	-240.64	-340.78	-447.66	-442.38	-517.67	-490.72
Manitowoc Co, WI	Subpart 1	-	100	-	0.00	-8.12	-11.65	-13.17	-24.78	-35.52	-34.37	-42.27	-39.41	0.00	-11.66	-11.94	-12.85	-23.73	-34.11	-32.98	-40.63	-37.86
Mariposa and Tuolumne Cos (Southern Mountain Counties), CA	Subpart 1	-	100	-	0.00	-12.08	-17.32	-19.47	-34.85	-49.22	-47.79	-58.30	-54.50	0.00	-17.37	-17.74	-18.96	-33.26	-47.10	-45.70	-55.84	-52.18
Martinsburg, WV-Hagerstown, MD	-	Nonattainment	-	100	0.00	-132.65	-189.59	-209.34	-315.09	-419.13	-412.89	-486.68	-460.16	0.00	-191.66	-193.69	-203.16	-297.03	-395.15	-389.27	-458.95	-433.96
Memphis, TN-AR	Moderate	-	100	-	0.00	-309.49	-442.48	-489.44	-750.96	-1,006.26	-989.51	-1,171.40	-1,105.95	0.00	-446.96	-452.14	-475.18	-708.97	-950.48	-934.54	-1,106.85	-1,044.99
Milwaukee-Racine, WI	Moderate	-	100	-	0.00	-271.74	-389.06	-433.87	-722.51	-996.97	-973.42	-1,172.01	-1,100.33	0.00	-391.57	-397.98	-421.94	-686.24	-948.61	-925.78	-1,115.96	-1,047.44
Nevada (Western Part), CA	Subpart 1	-	100	-	0.00	-20.44	-29.28	-32.73	-55.69	-77.41	-75.45	-91.22	-85.52	0.00	-29.44	-29.96	-31.84	-52.98	-73.78	-71.88	-87.01	-81.56
New York-N. New Jersey-Long Island, NY-NJ-CT	Moderate	Nonattainment	100	100	0.00	-3,170.40	-4,536.07	-5,038.79	-8,075.03	-10,994.82	-10,769.68	-12,868.36	-12,111.84	0.00	-4,573.32	-4,637.70	-4,896.23	-7,648.53	-10,427.18	-10,210.38	-12,210.91	-11,491.22
Parkersburg-Marietta, WV-OH	-	Nonattainment	-	100	0.00	-87.13	-124.49	-137.20	-202.41	-267.12	-263.66	-309.33	-292.93	0.00	-125.95	-127.15	-133.10	-190.51	-251.33	-248.10	-291.07	-275.68
Philadelphia-Wilmington, Atlantic City, PA-DE-MD-NJ	Moderate	Nonattainment	100	100	0.00	-1,654.55	-2,366.27	-2,622.22	-4,101.10	-5,534.84	-5,433.17	-6,458.81	-6,089.45	0.00	-2,388.26	-2,418.52	-2,546.77	-3,877.44	-5,237.49	-5,140.16	-6,114.59	-5,764.42
Phoenix-Mesa, AZ	Subpart 1	-	100	-	0.00	-408.65	-586.55	-663.48	-1,254.80	-1,801.51	-1,742.55	-2,144.79	-1,999.14	0.00	-586.54	-601.15	-647.10	-1,201.86	-1,730.46	-1,672.60	-2,062.16	-1,921.28
Pittsburgh-Beaver Valley, PA	Subpart 1	Nonattainment	100	100	0.00	-580.55	-830.09	-918.72	-1,418.10	-1,904.54	-1,871.79	-2,218.81	-2,093.91	0.00	-838.28	-848.28	-892.05	-1,339.43	-1,800.00	-1,768.77	-2,097.82	-1,979.66

Table C-44
Alternative CAFE Standards
Emission Changes a/ by Nonattainment Area

Volatile Organic Compounds 2050

Nonattainment Area	Status <u>b/</u>		General Conformity Threshold <u>c/</u>		Emission Changes for Proposed Alternatives (tons/year)									Emission Changes for Cumulative Impacts (tons/year)								
					Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 9
	O3	PM2.5	O3	PM2.5	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB	No Action	3%/yr. Increase	4%/yr. Increase	~ 4.3%/yr. Increase Preferred	5%/yr. Increase	~ 6.0%/yr. Increase MNB	6%/yr. Increase	7%/yr. Increase	~ 6.6%/yr. Increase TCTB
Poughkeepsie, NY	Moderate	-	100	-	0.00	-150.87	-216.26	-242.75	-429.60	-604.65	-587.59	-715.37	-669.17	0.00	-217.01	-221.41	-236.39	-409.74	-578.08	-561.43	-684.53	-640.09
Providence (All RI), RI	Moderate	-	100	-	0.00	-239.40	-342.41	-379.65	-596.96	-807.24	-792.04	-942.63	-888.38	0.00	-345.51	-350.00	-368.76	-564.63	-764.26	-749.67	-892.86	-841.39
Reading, PA	-	Nonattainment	-	100	0.00	-61.93	-88.62	-98.54	-159.48	-217.90	-213.26	-255.32	-240.15	0.00	-89.31	-90.62	-95.77	-151.16	-206.83	-202.35	-242.50	-228.05
Riverside Co, CA (Coachella Valley)	Serious	-	50	-	0.00	-142.59	-203.98	-226.36	-359.12	-487.20	-477.64	-569.53	-536.42	0.00	-205.75	-208.52	-219.91	-339.90	-461.63	-452.45	-539.92	-508.47
Rochester, NY	Subpart 1	-	100	-	0.00	-198.42	-284.10	-316.92	-529.35	-731.17	-713.73	-859.83	-807.09	0.00	-285.89	-290.63	-308.23	-502.89	-695.88	-678.96	-818.92	-768.49
Rome, GA	-	Nonattainment	-	100	0.00	-57.97	-82.84	-91.38	-136.30	-180.66	-178.13	-209.52	-198.24	0.00	-83.77	-84.61	-88.67	-128.40	-170.17	-167.79	-197.39	-186.78
Sacramento Metro, CA	Serious	-	50	-	0.00	-441.53	-632.13	-704.77	-1,170.98	-1,614.55	-1,576.71	-1,897.55	-1,781.75	0.00	-636.27	-646.61	-685.35	-1,112.02	-1,535.96	-1,499.28	-1,806.45	-1,695.78
San Diego, CA	Subpart 1	-	100	-	0.00	-283.00	-406.65	-462.85	-920.69	-1,340.49	-1,292.42	-1,602.82	-1,490.32	0.00	-405.47	-417.12	-451.99	-884.52	-1,291.79	-1,244.49	-1,546.12	-1,436.92
San Francisco Bay Area, CA	Marginal	-	100	-	0.00	-1,568.77	-2,244.51	-2,493.09	-3,992.66	-5,435.02	-5,324.04	-6,360.65	-5,986.99	0.00	-2,263.01	-2,294.77	-2,422.52	-3,781.59	-5,154.11	-5,047.26	-6,035.30	-5,679.86
San Joaquin Valley, CA	Serious	Nonattainment	50	100	0.00	-853.65	-1,221.66	-1,358.96	-2,208.44	-3,021.83	-2,956.43	-3,542.56	-3,331.17	0.00	-1,230.92	-1,249.27	-1,320.89	-2,093.92	-2,869.33	-2,806.18	-3,365.87	-3,164.40
Sheboygan, WI	Moderate	-	100	-	0.00	-21.85	-31.27	-34.78	-56.51	-77.31	-75.64	-90.63	-85.23	0.00	-31.51	-31.97	-33.81	-53.58	-73.41	-71.80	-86.11	-80.96
Springfield (Western MA), MA	Moderate	-	100	-	0.00	-80.69	-115.73	-130.41	-238.79	-339.60	-329.21	-403.12	-376.37	0.00	-115.93	-118.55	-127.10	-228.25	-325.48	-315.31	-386.71	-360.91
St. Louis, MO-IL	Moderate	Nonattainment	100	100	0.00	-1,218.64	-1,741.74	-1,923.04	-2,893.15	-3,847.65	-3,790.61	-4,467.55	-4,224.18	0.00	-1,760.81	-1,779.33	-1,866.27	-2,727.21	-3,627.39	-3,573.52	-4,212.76	-3,983.51
Steubenville-Weirton, OH-WV	-	Nonattainment	-	100	0.00	-86.20	-123.13	-135.52	-196.95	-258.35	-255.39	-298.54	-283.06	0.00	-124.65	-125.73	-131.43	-185.14	-242.69	-239.96	-280.44	-265.96
Sutter County (Sutter Buttes), CA	Subpart 1	-	100	-	0.00	-7.95	-11.35	-12.46	-17.59	-22.79	-22.60	-26.22	-24.93	0.00	-11.51	-11.59	-12.08	-16.49	-21.34	-21.17	-24.55	-23.34
Ventura Co, CA	Serious	-	50	-	0.00	-68.24	-97.96	-110.86	-210.63	-302.80	-292.80	-360.65	-336.08	0.00	-97.93	-100.40	-108.14	-201.80	-290.95	-281.13	-346.86	-323.09
Washington, DC-MD-VA	Moderate	Nonattainment	100	100	0.00	-511.46	-733.57	-826.25	-1,507.17	-2,141.03	-2,076.09	-2,540.55	-2,372.49	0.00	-734.97	-751.39	-805.17	-1,440.31	-2,051.47	-1,987.91	-2,436.51	-2,274.42
Wheeling, WV-OH	-	Nonattainment	-	100	0.00	-84.84	-121.23	-133.62	-197.41	-260.67	-257.26	-301.92	-285.88	0.00	-122.64	-123.82	-129.63	-185.82	-245.30	-242.11	-284.15	-269.09
York, PA	-	Nonattainment	-	100	0.00	-57.59	-82.44	-91.82	-151.13	-207.72	-203.00	-243.87	-229.12	0.00	-83.01	-84.31	-89.27	-143.43	-197.45	-192.89	-231.97	-217.89

a/ Reductions are shown as negative values. Positive values are emission increases. Values of less than 0.005 tons/year are rounded to zero.

b/ Pollutants for which the area is designated nonattainment or maintenance as of 2009. Source: 40 CFR 81.

c/ Emissions thresholds in tons/year of: VOCs or NOx in ozone NAAs; primary PM2.5 in PM2.5 NAAs. Source: 40 CFR 51.853. These thresholds are provided for information only; a general conformity determination is not required for the proposed actions. (See Section 3.3.1.)

EPA. 2008. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>. Accessed August 5, 2009.