Kern COG Proposed Target Adopted 4/15/10			ARB RTAC Recommended Methodology						New Columns Added 4/28/10					Land Use Model	
Column Number:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Emissions model:	CO2 with Pavley/LCF				NO Credit for State Strategies - Pavley and Low Carbon Fuels Standard (LCF)										
Factor or Variable	All Travel within Kern	All Travel minus pass thru trips (-XX)	RTAC Method (-XX, -50%IX, -50% Mil)	KERNCOG (-XX, -50%IX, -100%Mil, -50%Pris,-50%Wind)	All Travel within Kern	All Travel minus pass thru trips (-XX)	RTAC Method (-XX, -50%IX, -50% Mil)	KERNCOG (-XX, -50%IX, -100%Mil, -50%Pris,-50%Wind)	50% Beyond MPO Model Travel (50%BMT)	RTAC Method (-XX, -50%IX, -50% Mil +50%BMT	KERNCOG (-XX,-50% IX,-Mil,-50%Pris,-50%Wind, +50%BMT	METRO ONLY (Exempt All Outlying Areas)	METRO ONLY (Exempt Outlying Areas) +50%BMT	All Trips	RTAC Method (-XX, -50%IX, -50% Mil)
Computed or Adjusted Values, based on MPO Data															
Weekday CO2 Emissions by Passenger Vehicles Per Capita (Pounds)															
Base Year (2005)	22.02	15.41	14.32	13.58	22.02	15.41	14.32	13.58	2.23	17.02	15.81	10.95	13.18	22.02	14.32
SB 375 Interim Year (2020 CT)	16.15	11.08	10.39	**9.95**	22.06	15.12	14.21	13.61	1.39	15.97	15.00	10.68	12.07	22.36	14.80
SB 375 Horizon Year (2035 CT)	15.28	10.76	10.17	**9.80**	23.71	16.71	15.79	15.22	1.57	17.74	16.79	10.98	12.55	23.94	16.14
Base Scen. Interim Yr. (2020 NoBuild)	16.11	11.04	10.35	9.91	21.98	15.06	14.13	13.55	1.39	15.89	14.94	--		--	--
Base Scen Horizon Yr. (2035 NoBuild)	15.43	10.92	10.31	9.95	23.94	16.96	16.02	15.41	1.57	17.59	16.98	--		--	--
Alt. Scen. Interim Yr. (2020 ACT)	16.11	11.04	10.35	9.91	21.98	15.06	14.11	13.55	1.39	15.89	14.94	10.87	12.26	16.11	10.35
Alt. Scen. Horizon Yr. (2035 ACT)	15.22	10.72	10.13	9.75	23.60	16.64	15.72	15.12	1.57	17.66	16.69	11.31	12.88	21.18	13.60
Percent Change in CO2 Per Capita from 2005 (SB 375 Target Format)															
Base Year (2005)															
SB 375 Interim Year (2020 CT)	-26.7%	-28.1%	-27.4%	**-26.7%**	0.2%	-1.9%	-0.8%	0.2%	-37.7%	-6.1%	-5.1%	-2.4%	-8.4%	1.5%	3.4%
SB 375 Horizon Year (2035 CT)	-30.6%	-30.2%	-28.9%	**-27.9%**	7.7%	8.4%	10.3%	12.0%	-29.6%	4.3%	6.1%	0.4%	-4.7%	8.7%	12.7%
Base Scen. Interim Yr. (2020 NoBuild)	-26.9%	-28.4%	-27.7%	-27.0%	-0.2%	-2.3%	-1.3%	-0.2%	-37.7%	-6.6%	-5.5%				
Base Scen Horizon Yr. (2035 NoBuild)	-29.9%	-29.2%	-28.0%	-26.8%	8.7%	10.0%	11.9%	13.5%	-29.6%	3.4%	7.4%				
Alt. Scen. Interim Yr. (2020 ACT)	-26.9%	-28.4%	-27.7%	-27.0%	-0.2%	-2.3%	-1.5%	-0.2%	-37.7%	-6.6%	-5.5%	-0.7%	-7.0%	-26.9%	-27.7%
Alt. Scen. Horizon Yr. (2035 ACT)	-30.9%	-30.5%	-29.2%	-28.22%	7.2%	8.0%	9.8%	11.3%	-29.6%	3.8%	5.6%	3.4%	-2.2%	-3.8%	-5.0%
Pct. Diff. between 2035 CT and ACT	**-0.40%**	**-0.42%**	**-0.45%**	**-0.46%**	**-0.45%**	**-0.45%**	**-0.48%**	**-0.60%**	**0.00%**	**-0.43%**	**-0.54%**	**3.00%**	**2.63%**	**-11.5%**	**-15.8%**
2. MODEL OUTPUT DATA--CO2 and Vehicle Miles Traveled															
Values as Given by MPO Staff															
CO2 Emissions by Passenger Vehicles per Weekday--EMFAC2007 LDA, LDT1, LDT2, and MDV (Tons)															
Base Year (2005)	8,430	5,900	5,480	5,200	8,430	5,900	5,480	5,200				2,720	2,720	8,430	5,480
SB 375 Interim Year (2020 CT)	8,160	5,600	5,250	5,030	11,150	7,640	7,180	6,880				3,420	3,420	11,300	7,480
SB 375 Horizon Year (2035 CT)	10,090	7,110	6,720	6,470	15,660	11,040	10,430	10,050				4,660	4,660	15,810	10,660
Base Scen. Interim Yr. (2020 NoBuild)	8,140	5,580	5,230	5,010	11,110	7,610	7,140	6,850							
Base Scen Horizon Yr. (2035 NoBuild)	10,190	7,210	6,810	6,570	15,810	11,200	10,580	10,180							
Alt. Scen. Interim Yr. (2020 ACT)	8,140	5,580	5,230	5,010	11,110	7,610	7,130	6,850				3,480	3,480	8,140	5,230
Alt. Scen. Horizon Yr. (2035 ACT)	10,050	7,080	6,690	6,440	15,590	10,990	10,380	9,990				4,800	4,800	13,990	8,980
Values as Given by MPO															
Household Population															
Base Year (2005)	765,600	765,600	765,600	765,600	765,600	765,600	765,600	765,600				497,000	497,000	765,600	765,600
SB 375 Interim Year (2020 CT)	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800				640,500	640,500	1,010,800	1,010,800
SB 375 Horizon Year (2035 CT)	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000				848,500	848,500	1,321,000	1,321,000
Base Scen. Interim Yr. (2020 NoBuild)	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800				640,500	640,500	1,010,800	1,010,800
Base Scen Horizon Yr. (2035 NoBuild)	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000				848,500	848,500	1,321,000	1,321,000
Alt. Scen. Interim Yr. (2020 ACT)	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800	1,010,800				640,500	640,500	1,010,800	1,010,800
Alt. Scen. Horizon Yr. (2035 ACT)	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000	1,321,000				848,500	848,500	1,321,000	1,321,000

Assumptions: Based on Apr 09 Traffic model, Oct 09 Socio (Alternative Scenario Mar 10 socio), 2007 RTP data, CT = current Trend (business as usual), ACT = alternative to current trend, NoBuild = 2035 growth on a 2015 network

XX = external to external or through county trips, IX = internal to external and exteranal to interal (IXXI) or travel to the edge of the county, Mil = military installations, Wind = wind energy areas, BMT = IXXI outside the County