	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Bakersfield California Avenue, 1/1/01, Design Value 186**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**BAC 1/1/01 186**	38.28	9.14		2.12	11.30		26.36	92.15	5.98	0.00	0.67
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations <5%	0, no natural background, transport estimated at 0		0, no natural background, transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions < 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations < 5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	11.26	2.0	0.0		0.0	2.3		3.0	3.0	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	174.74	36.28	9.14		2.12	9.04		23.36	89.15	4.98	0.00	0.67
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	95.19	25.4	4.6		1.5	4.5		11.7	44.6	2.5		0.5
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	46.56	5.4	2.7		0.3	2.71		7.0	26.7	1.5		0.1
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	24.26	3.6	1.4		0.2	1.36		3.5	13.37	0.75		0.1
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	8.74	1.8	0.5		0.1	0.45		1.2	4.46	0.25		0.0
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 12	8.358392295	1.79239253		0.32	3.523501738		2.738835489				16.89795022
19		L2= Areas 9,10,11,12	20.55826921	2.36476969		0.37	6.636098661		3.774940533				34.28796622
20		Sr= Kern	25.3536	2.4614		0.39	7.8552		4.023728				41.0477
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.50111				259.4796
22	NOx	L1= Area 12								108.8043665			
23		L2= Areas 9,10,11,12								154.98103			
24		Sr= Kern								166.955848			
25		R= SJV								566.106052			
26	TOG	L1= Area 12			27.4510997			89.28091883					
27		L2= Areas 9,10,11,12			35.6538981			170.8270031					
28		Sr= Kern			37.5297			182.8006					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 12									3.03719247		
31		L2= Areas 9,10,11,12									10.39566984		
32		Sr= Kern									10.9429		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Bakersfield California Avenue, 1/1/01, Design Value 186**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 12	9.879205888	1.64193036		0.47	3.937295194		2.966009799				18.23596999
135		L2= Areas 9,10,11,12	24.29885641	2.1134908		0.54	7.415429679		4.040352903				37.64323715
136		Sr= Kern	29.9667	2.1993		0.56	8.7777		4.294114				45.237814
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.54244				262.49704
138	PM10 2010 EI with new controls	L1= Area 12	5.498189907	1.57408424		0.47	3.757424001		0.221099555				10.86232645
139		L2= Areas 9,10,11,12	17.31840739	2.02615936		0.54	7.076663567		0.766714635				26.9630523
140		Sr= Kern	21.9647	2.10842284		0.56	8.3767		0.939934				33.38975684
141		R= SJV	150.7995	11.6004		2.63	26.2947		13.641585				195.68172
142	NOx 2010 EI without new controls	L1= Area 12								82.99741715			
143		L2= Areas 9,10,11,12								120.6925435			
144		Sr= Kern								130.52272			
145		R= SJV								400.830212			
146	NOx 2010 EI with new controls	L1= Area 12								73.75010428			
147		L2= Areas 9,10,11,12								107.2453574			
148		Sr= Kern								115.9802864			
149		R= SJV								363.642212			
150	TOG 2010 EI without new controls	L1= Area 12			16.2649111			97.80834193					
151		L2= Areas 9,10,11,12			21.8621255			187.1430777					
152		Sr= Kern			22.957			200.2603					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 12			16.2649111			89.48639126					
155		L2= Areas 9,10,11,12			21.8621255			171.2201468					
156		Sr= Kern			22.957			217.2993					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 12									3.258351419		
159		L2= Areas 9,10,11,12									11.61570068		
160		Sr= Kern									12.2303		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 12									1.976622542		
163		L2= Areas 9,10,11,12									7.046463948		
164		Sr= Kern									7.4193		
165		R= SJV									25.9547		
210													
211	2010-2011 Rollback Projection												
212	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	30.0	2.1	1.4	2.2	2.5	2.5	12.6	37.5	2.7		0.5
213	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	6.4	1.2	0.8	0.5	1.5	1.5	7.5	22.8	1.7		0.1
214	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	4.3	0.6	0.4	0.3	0.8	0.7	3.7	11.4	0.8		0.1
215	Regional Contribution	=(2010 R/1999 R) * LINE 7	2.1	0.2	0.1	0.1	0.3	0.3	1.3	3.6	0.3		0.0
216	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	2.3		3.0	3.0	1.0	0.0	0.0
217	2010-2011 projected Annual Result	180.74	44.8	4.1	2.7	3.1	7.3	5.0	28.1	78.3	6.4	0.0	0.7
218	2010-2011 Rollback Projection with additional controls												
219	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	16.7	2.0	1.4	2.2	2.4	2.3	0.9	35.0	1.6		0.3
220	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	4.6	1.2	0.8	0.5	1.4	1.4	1.4	21.3	1.0		0.1
221	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	3.1	0.6	0.4	0.3	0.7	0.8	0.8	10.7	0.5		0.1
222	Regional Contribution	=(2010 R/1999 R) * LINE 7	1.6	0.2	0.1	0.1	0.2	0.3	0.6	3.4	0.2		0.0
223	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	2.3		3.0	3.0	1.0	0.0	0.0
224	2010-2011 projected Annual Result	134.54	28.0	4.0	2.7	3.1	7.1	4.7	6.8	73.3	4.4	0.0	0.5
225													
226	end												

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Bakersfield Golden State, 1/4/01, Design Value 208**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**BGS 1/4/01 208**	58.88	6.83		1.29	7.09		16.55	96.59	7.11	0.00	13.23
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations <5%	0, no natural background, transport estimated at 0		0, no natural background transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions < 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations < 5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	10.42	2.0	0.0		0.0	1.4		3.0	3.0	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	197.16	56.9	6.8		1.3	5.7		13.5	93.6	6.1	0.0	13.2
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	75%PM10 50%PM2.5 of net, local geologic sources dominant	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	115.70	42.7	3.4		0.9	2.8		6.8	46.8	3.1		9.3
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	45.59	5.7	2.0		0.2	1.70		4.1	28.1	1.8		2.0
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	26.00	5.7	1.0		0.1	0.85		2.0	14.04	0.92		1.3
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	9.86	2.8	0.3		0.1	0.28		0.7	4.68	0.31		0.7
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 12	8.358392295	1.79239253		0.32	3.523501738		2.738835489				16.89795022
19		L2= Areas 10,12,13	18.71534063	2.34433285		0.37021323	5.22204156		3.581410018				34.28796622
20		Sr= Kern	25.3536	2.4614		0.39	7.8552		4.023728				41.0477
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.50111				259.4796
22	NOx	L1= Area 12								108.8043665			
23		L2= Areas 10,12,13								137.5813778			
24		Sr= Kern								166.955848			
25		R= SJV								566.106052			
26	TOG	L1= Area 12			27.4510997			89.28091883					
27		L2= Areas 10,12,13			35.5163543			119.6223166					
28		Sr= Kern			37.5297			182.8006					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 12									3.03719247		
31		L2= Areas 10,12,13									4.234810801		
32		Sr= Kern									10.9429		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Bakersfield Golden State, 1/4/01, Design Value 208**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 12	9.879205888	1.64193036		0.47	3.937295194		2.966009799				18.23596999
135		L2= Areas 10,12,13	22.12060607	2.09412135		0.54	5.835308356		3.841744438				37.6409676
136		Sr= Kern	29.9667	2.1993		0.56	8.7777		4.294114				45.237814
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.54244				262.49704
138	PM10 2010 EI with new controls	L1= Area 12	5.498189907	1.57408424		0.47	3.757424001		0.221099555				10.86232645
139		L2= Areas 10,12,13	15.2027423	2.00759027		0.54	5.568728426		0.568160747				27.09640913
140		Sr= Kern	21.9647	2.10842284		0.56	8.3767		0.939934				33.38975684
141		R= SJV	150.7995	11.6004		2.63	26.2947		13.641585				195.68172
142	NOx 2010 EI without new controls	L1= Area 12								82.99741715			
143		L2= Areas 10,12,13								106.005163			
144		Sr= Kern								130.52272			
145		R= SJV								400.7192			
146	NOx 2010 EI with new controls	L1= Area 12								73.75010428			
147		L2= Areas 10,12,13								94.24184907			
148		Sr= Kern								115.9802864			
149		R= SJV								363.642212			
150	TOG 2010 EI without new controls	L1= Area 12			16.2649111			97.80834193					
151		L2= Areas 10,12,13			21.7663325			131.0477155					
152		Sr= Kern			22.957			200.2603					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 12			16.2649111			89.48639126					
155		L2= Areas 10,12,13			21.7663325			119.8976172					
156		Sr= Kern			22.957			217.2993					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 12									3.258351419		
159		L2= Areas 10,12,13									4.592870169		
160		Sr= Kern									12.2303		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 12									1.976622542		
163		L2= Areas 10,12,13									2.786185265		
164		Sr= Kern									7.4193		
165		R= SJV									25.9547		
210													
211	2010-2011 Rollback Projection												
212	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	50.4	1.6	1.0	1.3	1.6	1.6	7.3	39.4	3.3		10.0
213	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	6.7	0.9	0.6	0.3	1.0	0.9	4.4	23.8	2.0		2.2
214	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	6.7	0.5	0.3	0.2	0.5	0.5	2.2	12.0	1.0		1.5
215	Regional Contribution	=(2010 R/1999 R) * LINE 7	3.3	0.2	0.1	0.1	0.2	0.2	0.7	3.8	0.3		0.7
216	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	1.4		3.0	3.0	1.0	0.0	0.0
217	2010-2011 projected Annual Result	205.32	69.1	3.1	2.0	1.9	4.6	3.1	17.6	81.9	7.6	0.0	14.3
218	2010-2011 Rollback Projection with additional controls												
219	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	28.1	1.5	1.0	1.3	1.5	1.4	0.5	36.7	2.0		6.0
220	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	4.6	0.9	0.6	0.3	0.9	0.9	0.6	22.2	1.2		1.6
221	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	4.9	0.4	0.3	0.2	0.5	0.5	0.5	11.2	0.6		1.1
222	Regional Contribution	=(2010 R/1999 R) * LINE 7	2.5	0.1	0.1	0.1	0.1	0.2	0.4	3.6	0.3		0.5
223	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	1.4		3.0	3.0	1.0	0.0	0.0
224	2010-2011 projected Annual Result	152.29	42.1	3.0	2.0	1.9	4.4	2.9	5.0	76.7	5.1	0.0	9.1
225													
226	end												

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Oildale, 1/4/01, Design Value 195**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**OLD 1/4/01 195**	40.73	5.91		1.13	5.35		12.47	109.82	7.69	0.00	12.09
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations <5%	0, no natural background, transport estimated at 0		0, no natural background transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions < 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations < 5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	10.07	2.0	0.0		0.0	1.1		3.0	3.0	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	185.12	38.7	5.9		1.1	4.3		9.5	106.8	6.7	0.0	12.1
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	102.95	27.1	3.0		0.8	2.1		4.7	53.4	3.3		8.5
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	47.74	5.8	1.8		0.2	1.28		2.8	32.0	2.0		1.8
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	25.17	3.9	0.9		0.1	0.64		1.4	16.02	1.00		1.2
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	9.26	1.9	0.3		0.1	0.21		0.5	5.34	0.33		0.6
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 12	8.358392295	1.79239253		0.32	3.523501738		2.738835489				16.89795022
19		L2= Areas 10,12,13	18.71534063	2.34433285		0.37021323	5.22204156		3.581410018				34.28796622
20		Sr= Kern	25.3536	2.4614		0.39	7.8552		4.023728				41.0477
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.50111				259.4796
22	NOx	L1= Area 12								108.8043665			
23		L2= Areas 10,12,13								137.5813778			
24		Sr= Kern								166.955848			
25		R= SJV								566.106052			
26	TOG	L1= Area 12			27.4510997			89.28091883					
27		L2= Areas 10,12,13			35.5163543			119.6223166					
28		Sr= Kern			37.5297			182.8006					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 12									3.03719247		
31		L2= Areas 10,12,13									4.234810801		
32		Sr= Kern									10.9429		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Oildale, 1/4/01, Design Value 195**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 12	9.879205888	1.64193036		0.47	3.937295194		2.966009799				18.23596999
135		L2= Areas 10,12,13	22.12060607	2.09412135		0.54	5.835308356		3.841744438				37.6409676
136		Sr= Kern	29.9667	2.1993		0.56	8.7777		4.294114				45.237814
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.54244				262.49704
138	PM10 2010 EI with new controls	L1= Area 12	5.498189907	1.57408424		0.47	3.757424001		0.221099555				10.86232645
139		L2= Areas 10,12,13	15.2027423	2.00759027		0.54	5.568728426		0.568160747				27.09640913
140		Sr= Kern	21.9647	2.10842284		0.56	8.3767		0.939934				33.38975684
141		R= SJV	150.7995	11.6004		2.63	26.2947		13.641585				195.68172
142	NOx 2010 EI without new controls	L1= Area 12								82.99741715			
143		L2= Areas 10,12,13								106.005163			
144		Sr= Kern								130.52272			
145		R= SJV								400.7192			
146	NOx 2010 EI with new controls	L1= Area 12								73.75010428			
147		L2= Areas 10,12,13								94.24184907			
148		Sr= Kern								115.9802864			
149		R= SJV								363.642212			
150	TOG 2010 EI without new controls	L1= Area 12			16.2649111			97.80834193					
151		L2= Areas 10,12,13			21.7663325			131.0477155					
152		Sr= Kern			22.957			200.2603					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 12			16.2649111			89.48639126					
155		L2= Areas 10,12,13			21.7663325			119.8976172					
156		Sr= Kern			22.957			217.2993					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 12									3.258351419		
159		L2= Areas 10,12,13									4.592870169		
160		Sr= Kern									12.2303		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 12									1.976622542		
163		L2= Areas 10,12,13									2.786185265		
164		Sr= Kern									7.4193		
165		R= SJV									25.9547		
210													
211	2010-2011 Rollback Projection												
212	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	32.0	1.4	0.9	1.2	1.2	1.2	5.1	45.0	3.6		9.1
213	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	6.9	0.8	0.5	0.2	0.7	0.7	3.0	27.1	2.2		2.0
214	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	4.6	0.4	0.3	0.2	0.4	0.4	1.5	13.7	1.1		1.3
215	Regional Contribution	=(2010 R/1999 R) * LINE 7	2.2	0.1	0.1	0.1	0.1	0.1	0.5	4.3	0.4		0.6
216	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	1.1		3.0	3.0	1.0	0.0	0.0
217	2010-2011 projected Annual Result	187.24	47.7	2.7	1.8	1.6	3.5	2.4	13.2	93.1	8.3	0.0	13.1
218	2010-2011 Rollback Projection with additional controls												
219	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	17.8	1.3	0.9	1.2	1.1	1.1	0.4	41.9	2.2		5.4
220	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	4.7	0.8	0.5	0.2	0.7	0.6	0.5	25.3	1.3		1.4
221	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	3.4	0.4	0.3	0.2	0.3	0.4	0.3	12.8	0.7		1.0
222	Regional Contribution	=(2010 R/1999 R) * LINE 7	1.7	0.1	0.1	0.1	0.1	0.1	0.3	4.1	0.3		0.5
223	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	1.1		3.0	3.0	1.0	0.0	0.0
224	2010-2011 projected Annual Result	146.47	29.6	2.6	1.8	1.6	3.3	2.2	4.4	87.1	5.5	0.0	8.3
225													
226	end												

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Fresno Drummond, 1/4/01, Design Value 159**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**FSD 1/4/01 159**	29.99	15.83		2.11	10.29		24.01	53.36	4.28	0.00	19.19
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations =5%	0, no natural background, transport estimated at 0		0, no natural background transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions = 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations =5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	12.03	1.5	0.0		0.0	2.1		4.8	2.7	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	147.03	28.5	15.8		2.1	8.2		19.2	50.7	3.3	0.0	19.2
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	83.47	19.9	7.9		1.5	4.1		9.6	25.3	1.6		13.4
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	36.64	4.3	4.8		0.3	2.47		5.8	15.2	1.0		2.9
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	19.57	2.8	2.4		0.2	1.23		2.9	7.60	0.49		1.9
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	7.35	1.4	0.8		0.1	0.41		1.0	2.53	0.16		1.0
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 3	5.144282278	1.44037889		0.271790529	1.717942798		4.687279203				13.19892599
19		L2= Areas 3,4	18.12910868	2.08123615		0.377333809	3.190830859		6.733970955				32.64108469
20		Sr= Fresno, Madera	52.0082	3.6939		0.513282065	6.0925		8.80858				77.1245
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.66167				259.4796
22	NOx	L1= Area 3								53.09297716			
23		L2= Areas 3,4								87.42667368			
24		Sr= Fresno, Madera								141.091558			
25		R= SJV								566.106052			
26	TOG	L1= Area 3			23.6155704			134.6108355					
27		L2= Areas 3,4			34.6974925			261.9739073					
28		Sr= Fresno, Madera			59.7409			403.8383					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 3									3.208421732		
31		L2= Areas 3,4									5.196267289		
32		Sr= Fresno, Madera									8.3462		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Fresno Drummond, 1/4/01, Design Value 159**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 3	6.026318953	1.33688393		0.369115715	1.952368306		5.160014131				14.81755579
135		L2= Areas 3,4	21.36949755	1.98011231		0.545118257	3.564545348		7.380738312				34.83889825
136		Sr= Fresno, Madera	61.2556	3.411		0.748475684	6.8186		9.660982				81.146182
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.38678				262.34138
138	PM10 2010 EI with new controls	L1= Area 3	4.81929613	1.28164262		0.369115715	1.602759632		0.417086349				8.462755205
139		L2= Areas 3,4	17.08936046	1.89829219		0.545118257	2.926245716		2.143966047				24.60186915
140		Sr= Fresno, Madera	48.9866	3.27005425		0.748475684	5.5976		2.707562				60.56181625
141		R= SJV	150.7995	11.6004		2.63	26.2947		6.98712				195.68172
142	NOx 2010 EI without new controls	L1= Area 3								33.84924681			
143		L2= Areas 3,4								60.32164287			
144		Sr= Fresno, Madera								99.461182			
145		R= SJV								400.830212			
146	NOx 2010 EI with new controls	L1= Area 3								31.13954172			
147		L2= Areas 3,4								55.49276547			
148		Sr= Fresno, Madera								91.49910021			
149		R= SJV								363.712212			
150	TOG 2010 EI without new controls	L1= Area 3			12.1987148			158.2284228					
151		L2= Areas 3,4			18.8901037			307.8758327					
152		Sr= Fresno, Madera			33.9576			474.4962					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 3			12.1987148			154.9894661					
155		L2= Areas 3,4			18.8901037			301.5735736					
156		Sr= Fresno, Madera			33.9576			464.7832					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 3									3.767808727		
159		L2= Areas 3,4									6.083482512		
160		Sr= Fresno, Madera									9.8315		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 3									3.485745235		
163		L2= Areas 3,4									5.628064404		
164		Sr= Fresno, Madera									9.0955		
165		R= SJV									25.9547		
210													
211	2010-2011 Rollback Projection												
212	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	23.4	3.7	2.0	2.0	2.3	2.4	10.6	19.2	1.9		15.1
213	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	5.0	2.3	1.3	0.5	1.4	1.5	6.3	12.1	1.2		3.1
214	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	3.4	1.1	0.7	0.3	0.7	0.7	3.2	6.1	0.6		2.0
215	Regional Contribution	=(2010 R/1999 R) * LINE 7	1.6	0.4	0.2	0.1	0.2	0.2	1.0	2.0	0.2		1.0
216	+ Natural Background contribution	= LINE 2	1.5	0.0		0.0	2.1		4.8	2.7	1.0	0.0	0.0
217	2010-2011 projected Annual Result	154.91	34.9	7.4	4.2	2.9	6.7	4.8	25.9	42.1	4.8	0.0	21.1
218	2010-2011 Rollback Projection with additional controls												
219	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	18.7	3.5	2.0	2.0	1.9	2.4	0.9	18.4	1.8		8.6
220	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	4.0	2.2	1.3	0.5	1.1	1.4	1.8	11.5	1.1		2.2
221	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	2.7	1.1	0.7	0.3	0.6	0.7	0.9	5.8	0.5		1.5
222	Regional Contribution	=(2010 R/1999 R) * LINE 7	1.3	0.3	0.2	0.1	0.2	0.2	0.3	1.9	0.1		0.7
223	+ Natural Background contribution	= LINE 2	1.5	0.0		0.0	2.1		4.8	2.7	1.0	0.0	0.0
224	2010-2011 projected Annual Result	119.48	28.2	7.1	4.2	2.9	5.9	4.7	8.6	40.3	4.5	0.0	13.0
225													
226	end												

DATE		Rollback default percentage, adjust by episode properties						
			Local	PM2.5	Sub regional	Regional	Total	
		Default 2.5-10	70	15	10	5	100	
		Default 2.5	50	30	15	5	100	
		Note: distribution of anthropogenic contribution after subtraction of background						
	Mapping of local, PM2.5-local,							
	and sub-regional based on							
	trajectory analysis		Areas used					
24-hr date	Site Name	Value	Local	PM2.5	Sub regional	Regional	# of dates	
11/6/97	Corcoran-Patterson Avenue	199						
12/31/98	Bakersfield-Golden State Highway	159						
	Visalia-N Church Street	160						
1/12/99	Oildale-3311 Manor Street	156	12	12,13	Kern	SJV	1	
10/21/99	Corcoran-Patterson Avenue	174	6	5,6,7,8	Kings-Tulare	SJV	2	
	Fresno-Drummond Street	162	3	3,4	Fresno-Madera	SJV	3	
	Turlock-S Minaret Street	157	1	1,2	Stanislaus-Merced	SJV	4	
11/14/99	Bakersfield-Golden State Highway	183	12	6,7,8,10,12	Kings-Tulare-Kern	SJV	5	
12/11/99	Hanford-S Irwin Street	183						
12/17/99	Corcoran-Patterson Avenue	174	6	6,8	Kings-Tulare	SJV	6	
12/23/99	Fresno-Drummond Street	168	3	3,4,7	Fresno-Tulare	SJV	7	
	Hanford-S Irwin Street	156	5	5,6,8	Kings-Tulare	SJV	8	
1/1/01	Bakersfield-5558 California Avenue	186	12	9,10,11,12	Kern	SJV	9	
	Bakersfield-Golden State Highway	205	12	9,10,11,12	Kern	SJV	10	
	Clovis-N Villa Avenue	155	3	3,4	Fresno-Madera	SJV	11	
	Fresno-1st Street	193	3	3,4	Fresno-Madera	SJV	12	
	Fresno-Drummond Street	186	3	3,4	Fresno-Madera	SJV	13	
	Oildale-3311 Manor Street	158	12	9,10,11,12	Kern	SJV	14	
1/4/01	Bakersfield-5558 California Avenue	190	12	10,12,13	Kern	SJV	15	
	Bakersfield-Golden State Highway	208	12	10,12,13	Kern	SJV	16	
	Fresno-Drummond Street	159	3	3,4	Fresno-Madera	SJV	17	
	Oildale-3311 Manor Street	195	12	10,12,13	Kern	SJV	18	
1/7/01	Bakersfield-5558 California Avenue	159	12	10,12	Kern	SJV	19	
	Bakersfield-Golden State Highway	174	12	10,12	Kern	SJV	20	
	Corcoran-Patterson Avenue	165	6	6,8,10,12	Kings-Tulare-Kern	SJV	21	
	Hanford-S Irwin Street	185	5	5,6,7,8,10	Kings-Tulare-Kern	SJV	22	
	Modesto-14th Street	158	1	1,2	St-Me-Ma- Fr-Tu	SJV	23	
11/9/01	Hanford-S Irwin Street	155	5	5,7,8	Kings-Tulare	SJV	24	

Annual	**County**	**Value**	**Site**		**EPA Value**			
	Fresno	50	Fresno-Drummond		47-53			
	Kings	53	Hanford, Irwin St		51			
	Tulare	53	Visalia, Church Street		54			
	Kern	57	Bakersfield-Golden		55			
			Areas used					
Annual	**County**	**Value**	**Local**	**PM2.5**	**Sub regional**	**Regional**		
	Fresno	50	3	3,4	Fresno-Madera	SJV		
	Kings	53	5	5,6,7,8	Kings-Tulare	SJV		
	Tulare	53	7	5,6,7,8	Tulare-Kings	SJV		
	Kern	57	12	Kern	Kern	SJV		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Bakersfield California Avenue, 1/7/01, Design Value 159 L2=10,12**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**BAC 1/7/01 159**	33.88	7.04		1.80	8.16		19.03	76.96	4.02	0.00	8.11
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations <5%	0, no natural background, transport estimated at 0		0, no natural background, transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions < 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations < 5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	10.63	2.0	0.0		0.0	1.6		3.0	3.0	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	148.37	31.88	7.04		1.80	6.52		16.03	73.96	3.02	0.00	8.11
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	82.54	22.3	3.5		1.3	3.3		8.0	37.0	1.5		5.7
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	38.24	4.8	2.1		0.3	1.96		4.8	22.2	0.9		1.2
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	20.17	3.2	1.1		0.2	0.98		2.4	11.09	0.45		0.8
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	7.42	1.6	0.4		0.1	0.33		0.8	3.70	0.15		0.4
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 12	8.358392295	1.79239253		0.32	3.523501738		2.738835489				16.89795022
19		L2= Areas 10,12,13	18.71534063	2.34433285		0.37021323	5.22204156		3.581410018				34.28796622
20		Sr= Kern	25.3536	2.4614		0.39	7.8552		4.023728				41.0477
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.50111				259.4796
22	NOx	L1= Area 12								108.8043665			
23		L2= Areas 10,12,13								137.5813778			
24		Sr= Kern								166.955848			
25		R= SJV								566.106052			
26	TOG	L1= Area 12			27.4510997			89.28091883					
27		L2= Areas 10,12,13			35.5163543			119.6223166					
28		Sr= Kern			37.5297			182.8006					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 12									3.03719247		
31		L2= Areas 10,12,13									4.234810801		
32		Sr= Kern									10.9429		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Bakersfield California Avenue, 1/7/01, Design Value 159 L2=10,12**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 12	9.879205888	1.64193036		0.47	3.937295194		2.966009799				18.23596999
135		L2= Areas 10,12,13	22.12060607	2.09412135		0.54	5.835308356		3.841744438				37.6409676
136		Sr= Kern	29.9667	2.1993		0.56	8.7777		4.294114				45.237814
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.54244				262.49704
138	PM10 2010 EI with new controls	L1= Area 12	5.498189907	1.57408424		0.47	3.757424001		0.221099555				10.86232645
139		L2= Areas 10,12,13	15.2027423	2.00759027		0.54	5.568728426		0.568160747				27.09640913
140		Sr= Kern	21.9647	2.10842284		0.56	8.3767		0.939934				33.38975684
141		R= SJV	150.7995	11.6004		2.63	26.2947		13.641585				195.68172
142	NOx 2010 EI without new controls	L1= Area 12								82.99741715			
143		L2= Areas 10,12,13								106.005163			
144		Sr= Kern								130.52272			
145		R= SJV								400.7192			
146	NOx 2010 EI with new controls	L1= Area 12								73.75010428			
147		L2= Areas 10,12,13								94.24184907			
148		Sr= Kern								115.9802864			
149		R= SJV								363.642212			
150	TOG 2010 EI without new controls	L1= Area 12			16.2649111			97.80834193					
151		L2= Areas 10,12,13			21.7663325			131.0477155					
152		Sr= Kern			22.957			200.2603					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 12			16.2649111			89.48639126					
155		L2= Areas 10,12,13			21.7663325			119.8976172					
156		Sr= Kern			22.957			217.2993					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 12									3.258351419		
159		L2= Areas 10,12,13									4.592870169		
160		Sr= Kern									12.2303		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 12									1.976622542		
163		L2= Areas 10,12,13									2.786185265		
164		Sr= Kern									7.4193		
165		R= SJV									25.9547		
210													
211	2010-2011 Rollback Projection												
212	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	26.4	1.6	1.0	1.9	1.8	1.8	8.7	31.1	1.6		6.1
213	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	5.7	0.9	0.6	0.4	1.1	1.1	5.2	18.8	1.0		1.3
214	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	3.8	0.5	0.3	0.3	0.5	0.5	2.6	9.5	0.5		0.9
215	Regional Contribution	=(2010 R/1999 R) * LINE 7	1.8	0.2	0.1	0.1	0.2	0.2	0.9	3.0	0.2		0.4
216	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	1.6		3.0	3.0	1.0	0.0	0.0
217	2010-2011 projected Annual Result	155.11	39.6	3.2	2.1	2.6	5.3	3.6	20.3	65.4	4.3	0.0	8.8
218	2010-2011 Rollback Projection with additional controls												
219	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	14.7	1.5	1.0	1.9	1.7	1.6	0.6	29.0	1.0		3.6
220	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	3.9	0.9	0.6	0.4	1.0	1.0	0.8	17.5	0.6		1.0
221	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	2.8	0.5	0.3	0.3	0.5	0.6	0.6	8.8	0.3		0.7
222	Regional Contribution	=(2010 R/1999 R) * LINE 7	1.4	0.1	0.1	0.1	0.2	0.2	0.4	2.8	0.1		0.3
223	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	1.6		3.0	3.0	1.0	0.0	0.0
224	2010-2011 projected Annual Result	116.24	24.7	3.1	2.1	2.6	5.1	3.4	5.4	61.2	3.0	0.0	5.6
225													
226	end												

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Bakersfield Golden State, 11/14/99, Design Value 183 L2=6,7,8,10,12**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**BGS 11/14/99 183**	50.58	6.12		1.92	4.95		11.55	85.28	6.33	0.00	16.27
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations <5%	0, no natural background, transport estimated at 0		0, no natural background, transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions < 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations < 5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	9.99	2.0	0.0		0.0	1.0		3.0	3.0	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	173.01	48.6	6.1		1.9	4.0		8.6	82.3	5.3	0.0	16.3
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	99.86	34.0	3.1		1.3	2.0		4.3	41.1	2.7		11.4
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	41.89	7.3	1.8		0.3	1.19		2.6	24.7	1.6		2.4
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	22.61	4.9	0.9		0.2	0.59		1.3	12.34	0.80		1.6
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	8.65	2.4	0.3		0.1	0.20		0.4	4.11	0.27		0.8
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 12	8.358392295	1.79239253		0.32	3.523501738		2.738835489				16.89795022
19		L2= Areas 10,12,13	18.71534063	2.34433285		0.37021323	5.22204156		3.581410018				34.28796622
20		Sr= Kern	25.3536	2.4614		0.39	7.8552		4.023728				41.0477
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.50111				259.4796
22	NOx	L1= Area 12								108.8043665			
23		L2= Areas 10,12,13								137.5813778			
24		Sr= Kern								166.955848			
25		R= SJV								566.106052			
26	TOG	L1= Area 12			27.4510997			89.28091883					
27		L2= Areas 10,12,13			35.5163543			119.6223166					
28		Sr= Kern			37.5297			182.8006					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 12									3.03719247		
31		L2= Areas 10,12,13									4.234810801		
32		Sr= Kern									10.9429		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Bakersfield Golden State, 11/14/99, Design Value 183 L2=6,7,8,10,12**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 12	9.879205888	1.64193036		0.47	3.937295194		2.966009799				18.23596999
135		L2= Areas 10,12,13	22.12060607	2.09412135		0.54	5.835308356		3.841744438				37.6409676
136		Sr= Kern	29.9667	2.1993		0.56	8.7777		4.294114				45.237814
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.54244				262.49704
138	PM10 2010 EI with new controls	L1= Area 12	5.498189907	1.57408424		0.47	3.757424001		0.221099555				10.86232645
139		L2= Areas 10,12,13	15.2027423	2.00759027		0.54	5.568728426		0.568160747				27.09640913
140		Sr= Kern	21.9647	2.10842284		0.56	8.3767		0.939934				33.38975684
141		R= SJV	150.7995	11.6004		2.63	26.2947		13.641585				195.68172
142	NOx 2010 EI without new controls	L1= Area 12								82.99741715			
143		L2= Areas 10,12,13								106.005163			
144		Sr= Kern								130.52272			
145		R= SJV								400.7192			
146	NOx 2010 EI with new controls	L1= Area 12								73.75010428			
147		L2= Areas 10,12,13								94.24184907			
148		Sr= Kern								115.9802864			
149		R= SJV								363.642212			
150	TOG 2010 EI without new controls	L1= Area 12			16.2649111			97.80834193					
151		L2= Areas 10,12,13			21.7663325			131.0477155					
152		Sr= Kern			22.957			200.2603					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 12			16.2649111			89.48639126					
155		L2= Areas 10,12,13			21.7663325			119.8976172					
156		Sr= Kern			22.957			217.2993					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 12									3.258351419		
159		L2= Areas 10,12,13									4.592870169		
160		Sr= Kern									12.2303		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 12									1.976622542		
163		L2= Areas 10,12,13									2.786185265		
164		Sr= Kern									7.4193		
165		R= SJV									25.9547		
210													
211	2010-2011 Rollback Projection												
212	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	40.2	1.4	0.9	2.0	1.1	1.1	4.6	34.6	2.9		12.3
213	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	8.6	0.8	0.6	0.4	0.7	0.7	2.8	20.9	1.7		2.7
214	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	5.7	0.4	0.3	0.3	0.3	0.3	1.4	10.5	0.9		1.8
215	Regional Contribution	=(2010 R/1999 R) * LINE 7	2.8	0.1	0.1	0.1	0.1	0.1	0.5	3.3	0.3		0.8
216	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	1.0		3.0	3.0	1.0	0.0	0.0
217	2010-2011 projected Annual Result	181.09	59.3	2.8	1.8	2.8	3.2	2.2	12.2	72.4	6.8	0.0	17.6
218	2010-2011 Rollback Projection with additional controls												
219	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	22.4	1.3	0.9	2.0	1.1	1.0	0.3	32.3	1.7		7.3
220	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	5.9	0.8	0.6	0.4	0.6	0.6	0.4	19.5	1.1		1.9
221	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	4.2	0.4	0.3	0.3	0.3	0.4	0.3	9.8	0.5		1.3
222	Regional Contribution	=(2010 R/1999 R) * LINE 7	2.2	0.1	0.1	0.1	0.1	0.1	0.2	3.1	0.2		0.6
223	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	1.0		3.0	3.0	1.0	0.0	0.0
224	2010-2011 projected Annual Result	136.89	36.7	2.7	1.8	2.8	3.1	2.1	4.3	67.8	4.6	0.0	11.2
225													
226	end												

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Bakersfield Golden State, 1/7/01, Design Value 174 L2= 10.12**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**BGS 1/7/01 174**	49.36	5.73		1.08	5.94		13.87	80.97	5.96	0.00	11.09
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations <5%	0, no natural background, transport estimated at 0		0, no natural background transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions < 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations < 5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	10.19	2.0	0.0		0.0	1.2		3.0	3.0	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	163.81	47.4	5.7		1.1	4.8		10.9	78.0	5.0	0.0	11.1
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	93.81	33.2	2.9		0.8	2.4		5.4	39.0	2.5		7.8
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	40.21	7.1	1.7		0.2	1.43		3.3	23.4	1.5		1.7
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	21.60	4.7	0.9		0.1	0.71		1.6	11.70	0.74		1.1
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	8.19	2.4	0.3		0.1	0.24		0.5	3.90	0.25		0.6
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 12	8.358392295	1.79239253		0.32	3.523501738		2.738835489				16.89795022
19		L2= Areas 10,12,13	18.71534063	2.34433285		0.37021323	5.22204156		3.581410018				34.28796622
20		Sr= Kern	25.3536	2.4614		0.39	7.8552		4.023728				41.0477
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.50111				259.4796
22	NOx	L1= Area 12								108.8043665			
23		L2= Areas 10,12,13								137.5813778			
24		Sr= Kern								166.955848			
25		R= SJV								566.106052			
26	TOG	L1= Area 12			27.4510997			89.28091883					
27		L2= Areas 10,12,13			35.5163543			119.6223166					
28		Sr= Kern			37.5297			182.8006					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 12									3.03719247		
31		L2= Areas 10,12,13									4.234810801		
32		Sr= Kern									10.9429		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Bakersfield Golden State, 1/7/01, Design Value 174 L2= 10.12**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 12	9.879205888	1.64193036		0.47	3.937295194		2.966009799				18.23596999
135		L2= Areas 10,12,13	22.12060607	2.09412135		0.54	5.835308356		3.841744438				37.6409676
136		Sr= Kern	29.9667	2.1993		0.56	8.7777		4.294114				45.237814
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.54244				262.49704
138	PM10 2010 EI with new controls	L1= Area 12	5.498189907	1.57408424		0.47	3.757424001		0.221099555				10.86232645
139		L2= Areas 10,12,13	15.2027423	2.00759027		0.54	5.568728426		0.568160747				27.09640913
140		Sr= Kern	21.9647	2.10842284		0.56	8.3767		0.939934				33.38975684
141		R= SJV	150.7995	11.6004		2.63	26.2947		13.641585				195.68172
142	NOx 2010 EI without new controls	L1= Area 12								82.99741715			
143		L2= Areas 10,12,13								106.005163			
144		Sr= Kern								130.52272			
145		R= SJV								400.7192			
146	NOx 2010 EI with new controls	L1= Area 12								73.75010428			
147		L2= Areas 10,12,13								94.24184907			
148		Sr= Kern								115.9802864			
149		R= SJV								363.642212			
150	TOG 2010 EI without new controls	L1= Area 12			16.2649111			97.80834193					
151		L2= Areas 10,12,13			21.7663325			131.0477155					
152		Sr= Kern			22.957			200.2603					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 12			16.2649111			89.48639126					
155		L2= Areas 10,12,13			21.7663325			119.8976172					
156		Sr= Kern			22.957			217.2993					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 12									3.258351419		
159		L2= Areas 10,12,13									4.592870169		
160		Sr= Kern									12.2303		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 12									1.976622542		
163		L2= Areas 10,12,13									2.786185265		
164		Sr= Kern									7.4193		
165		R= SJV									25.9547		
210													
211	2010-2011 Rollback Projection												
212	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	39.2	1.3	0.8	1.1	1.3	1.3	5.9	32.8	2.7		8.4
213	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	8.4	0.8	0.5	0.2	0.8	0.8	3.5	19.8	1.6		1.8
214	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	5.6	0.4	0.3	0.2	0.4	0.4	1.7	10.0	0.8		1.2
215	Regional Contribution	=(2010 R/1999 R) * LINE 7	2.7	0.1	0.1	0.1	0.1	0.1	0.6	3.1	0.3		0.6
216	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	1.2		3.0	3.0	1.0	0.0	0.0
217	2010-2011 projected Annual Result	172.07	57.9	2.6	1.7	1.6	3.8	2.6	14.7	68.8	6.4	0.0	12.0
218	2010-2011 Rollback Projection with additional controls												
219	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	21.8	1.3	0.8	1.1	1.3	1.2	0.4	30.6	1.6		5.0
220	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	5.8	0.7	0.5	0.2	0.8	0.7	0.5	18.5	1.0		1.3
221	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	4.1	0.4	0.3	0.2	0.4	0.4	0.4	9.3	0.5		0.9
222	Regional Contribution	=(2010 R/1999 R) * LINE 7	2.1	0.1	0.1	0.1	0.1	0.1	0.3	3.0	0.2		0.4
223	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	1.2		3.0	3.0	1.0	0.0	0.0
224	2010-2011 projected Annual Result	128.69	35.8	2.5	1.7	1.6	3.7	2.5	4.6	64.4	4.3	0.0	7.6
225													
226	end												

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Oildale, 1/12/99, Design Value 156 L2=12.13**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**OLD 1/12/99 156**	32.24	4.57		0.90	4.35		10.15	76.99	7.12	0.00	19.67
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations <5%	0, no natural background, transport estimated at 0		0, no natural background transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions < 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations < 5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	9.87	2.0	0.0		0.0	0.9		3.0	3.0	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	146.13	30.2	4.6		0.9	3.5		7.2	74.0	6.1	0.0	19.7
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	83.23	21.2	2.3		0.6	1.7		3.6	37.0	3.1		13.8
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	36.22	4.5	1.4		0.1	1.04		2.1	22.2	1.8		3.0
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	19.38	3.0	0.7		0.1	0.52		1.1	11.10	0.92		2.0
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	7.31	1.5	0.2		0.0	0.17		0.4	3.70	0.31		1.0
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 12	8.358392295	1.79239253		0.32	3.523501738		2.738835489				16.89795022
19		L2= Areas 10,12,13	18.71534063	2.34433285		0.37021323	5.22204156		3.581410018				34.28796622
20		Sr= Kern	25.3536	2.4614		0.39	7.8552		4.023728				41.0477
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.50111				259.4796
22	NOx	L1= Area 12								108.8043665			
23		L2= Areas 10,12,13								137.5813778			
24		Sr= Kern								166.955848			
25		R= SJV								566.106052			
26	TOG	L1= Area 12			27.4510997			89.28091883					
27		L2= Areas 10,12,13			35.5163543			119.6223166					
28		Sr= Kern			37.5297			182.8006					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 12									3.03719247		
31		L2= Areas 10,12,13									4.234810801		
32		Sr= Kern									10.9429		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Oildale, 1/12/99, Design Value 156 L2=12,13**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 12	9.879205888	1.64193036		0.47	3.937295194		2.966009799				18.23596999
135		L2= Areas 10,12,13	22.12060607	2.09412135		0.54	5.835308356		3.841744438				37.6409676
136		Sr= Kern	29.9667	2.1993		0.56	8.7777		4.294114				45.237814
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.54244				262.49704
138	PM10 2010 EI with new controls	L1= Area 12	5.498189907	1.57408424		0.47	3.757424001		0.221099555				10.86232645
139		L2= Areas 10,12,13	15.2027423	2.00759027		0.54	5.568728426		0.568160747				27.09640913
140		Sr= Kern	21.9647	2.10842284		0.56	8.3767		0.939934				33.38975684
141		R= SJV	150.7995	11.6004		2.63	26.2947		13.641585				195.68172
142	NOx 2010 EI without new controls	L1= Area 12								82.99741715			
143		L2= Areas 10,12,13								106.005163			
144		Sr= Kern								130.52272			
145		R= SJV								400.7192			
146	NOx 2010 EI with new controls	L1= Area 12								73.75010428			
147		L2= Areas 10,12,13								94.24184907			
148		Sr= Kern								115.9802864			
149		R= SJV								363.642212			
150	TOG 2010 EI without new controls	L1= Area 12			16.2649111			97.80834193					
151		L2= Areas 10,12,13			21.7663325			131.0477155					
152		Sr= Kern			22.957			200.2603					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 12			16.2649111			89.48639126					
155		L2= Areas 10,12,13			21.7663325			119.8976172					
156		Sr= Kern			22.957			217.2993					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 12									3.258351419		
159		L2= Areas 10,12,13									4.592870169		
160		Sr= Kern									12.2303		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 12									1.976622542		
163		L2= Areas 10,12,13									2.786185265		
164		Sr= Kern									7.4193		
165		R= SJV									25.9547		
210													
211	2010-2011 Rollback Projection												
212	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	25.0	1.0	0.7	0.9	1.0	1.0	3.9	31.1	3.3		14.9
213	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	5.4	0.6	0.4	0.2	0.6	0.6	2.3	18.8	2.0		3.2
214	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	3.6	0.3	0.2	0.1	0.3	0.3	1.1	9.5	1.0		2.2
215	Regional Contribution	=(2010 R/1999 R) * LINE 7	1.7	0.1	0.1	0.1	0.1	0.1	0.4	3.0	0.3		1.0
216	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	0.9		3.0	3.0	1.0	0.0	0.0
217	2010-2011 projected Annual Result	152.19	37.7	2.1	1.4	1.3	2.8	1.9	10.7	65.4	7.6	0.0	21.3
218	2010-2011 Rollback Projection with additional controls												
219	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	13.9	1.0	0.7	0.9	0.9	0.9	0.3	29.0	2.0		8.9
220	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	3.7	0.6	0.4	0.2	0.6	0.5	0.3	17.5	1.2		2.3
221	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	2.6	0.3	0.2	0.1	0.3	0.3	0.3	8.8	0.6		1.6
222	Regional Contribution	=(2010 R/1999 R) * LINE 7	1.3	0.1	0.1	0.1	0.1	0.1	0.2	2.8	0.3		0.7
223	+ Natural Background contribution	= LINE 2	2.0	0.0		0.0	0.9		3.0	3.0	1.0	0.0	0.0
224	2010-2011 projected Annual Result	116.70	23.6	2.0	1.4	1.3	2.7	1.8	4.1	61.2	5.1	0.0	13.5
225													
226	end												

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Fresno Drummond, 12/23/99, Design Value 168**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**FSD 12/23/99 168**	46.18	8.40		0.96	9.34		21.80	57.46	3.11	0.00	20.98
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations =5%	0, no natural background, transport estimated at 0		0, no natural background transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions = 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations =5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	12.41	2.3	0.0		0.0	1.9		4.4	2.9	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	155.84	43.9	8.4		1.0	7.5		17.4	54.6	2.1	0.0	21.0
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	91.08	30.7	4.2		0.7	3.7		8.7	27.3	1.1		14.7
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	36.88	6.6	2.5		0.1	2.24		5.2	16.4	0.6		3.1
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	20.08	4.4	1.3		0.1	1.12		2.6	8.19	0.32		2.1
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	7.79	2.2	0.4		0.0	0.37		0.9	2.73	0.11		1.0
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 3	5.144282278	1.44037889		0.271790529	1.717942798		4.687279203				13.19892599
19		L2= Areas 3,4	18.12910868	2.08123615		0.377333809	3.190830859		6.733970955				32.64108469
20		Sr= Fresno, Madera	52.0082	3.6939		0.513282065	6.0925		8.80858				77.1245
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.66167				259.4796
22	NOx	L1= Area 3								53.09297716			
23		L2= Areas 3,4								87.42667368			
24		Sr= Fresno, Madera								141.091558			
25		R= SJV								566.106052			
26	TOG	L1= Area 3			23.6155704			134.6108355					
27		L2= Areas 3,4			34.6974925			261.9739073					
28		Sr= Fresno, Madera			59.7409			403.8383					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 3									3.208421732		
31		L2= Areas 3,4									5.196267289		
32		Sr= Fresno, Madera									8.3462		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Fresno Drummond, 12/23/99, Design Value 168**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 3	6.026318953	1.33688393		0.369115715	1.952368306		5.160014131				14.81755579
135		L2= Areas 3,4	21.36949755	1.98011231		0.545118257	3.564545348		7.380738312				34.83889825
136		Sr= Fresno, Madera	61.2556	3.411		0.748475684	6.8186		9.660982				81.146182
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.38678				262.34138
138	PM10 2010 EI with new controls	L1= Area 3	4.81929613	1.28164262		0.369115715	1.602759632		0.417086349				8.462755205
139		L2= Areas 3,4	17.08936046	1.89829219		0.545118257	2.926245716		2.143966047				24.60186915
140		Sr= Fresno, Madera	48.9866	3.27005425		0.748475684	5.5976		2.707562				60.56181625
141		R= SJV	150.7995	11.6004		2.63	26.2947		6.98712				195.68172
142	NOx 2010 EI without new controls	L1= Area 3								33.84924681			
143		L2= Areas 3,4								60.32164287			
144		Sr= Fresno, Madera								99.461182			
145		R= SJV								400.830212			
146	NOx 2010 EI with new controls	L1= Area 3								31.13954172			
147		L2= Areas 3,4								55.49276547			
148		Sr= Fresno, Madera								91.49910021			
149		R= SJV								363.712212			
150	TOG 2010 EI without new controls	L1= Area 3			12.1987148			158.2284228					
151		L2= Areas 3,4			18.8901037			307.8758327					
152		Sr= Fresno, Madera			33.9576			474.4962					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 3			12.1987148			154.9894661					
155		L2= Areas 3,4			18.8901037			301.5735736					
156		Sr= Fresno, Madera			33.9576			464.7832					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 3									3.767808727		
159		L2= Areas 3,4									6.083482512		
160		Sr= Fresno, Madera									9.8315		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 3									3.485745235		
163		L2= Areas 3,4									5.628064404		
164		Sr= Fresno, Madera									9.0955		
165		R= SJV									25.9547		
210													
211	2010-2011 Rollback Projection												
212	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	36.0	2.0	1.1	0.9	2.1	2.2	9.6	20.7	1.2		16.5
213	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	7.8	1.2	0.7	0.2	1.3	1.3	5.7	13.0	0.7		3.4
214	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	5.2	0.6	0.4	0.1	0.6	0.7	2.9	6.6	0.4		2.2
215	Regional Contribution	=(2010 R/1999 R) * LINE 7	2.5	0.2	0.1	0.1	0.2	0.2	0.9	2.2	0.1		1.1
216	+ Natural Background contribution	= LINE 2	2.3	0.0		0.0	1.9		4.4	2.9	1.0	0.0	0.0
217	2010-2011 projected Annual Result	167.11	53.7	3.9	2.2	1.3	6.1	4.4	23.5	45.3	3.5	0.0	23.1
218	2010-2011 Rollback Projection with additional controls												
219	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	28.8	1.9	1.1	0.9	1.7	2.2	0.8	19.8	1.1		9.4
220	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	6.2	1.1	0.7	0.2	1.0	1.3	1.7	12.4	0.7		2.4
221	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	4.1	0.6	0.4	0.1	0.5	0.6	0.8	6.3	0.3		1.6
222	Regional Contribution	=(2010 R/1999 R) * LINE 7	1.9	0.2	0.1	0.1	0.2	0.2	0.2	2.1	0.1		0.8
223	+ Natural Background contribution	= LINE 2	2.3	0.0		0.0	1.9		4.4	2.9	1.0	0.0	0.0
224	2010-2011 projected Annual Result	129.07	43.4	3.8	2.2	1.3	5.4	4.3	7.8	43.4	3.3	0.0	14.2
225													
226	end												

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Fresno Drummond, 10/21/99, Design Value 162**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**FSD 10/21/99 162**	74.54	24.88		0.00	1.75		4.08	23.55	2.80	0.00	30.40
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations =5%	0, no natural background, transport estimated at 0		0, no natural background transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions = 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations =5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	7.07	3.7	0.0		0.0	0.3		0.8	1.2	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	154.93	70.8	24.9		0.0	1.4		3.3	22.4	1.8	0.0	30.4
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	97.71	49.6	12.4		0.0	0.7		1.6	11.2	0.9		21.3
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	31.30	10.6	7.5		0.0	0.42		1.0	6.7	0.5		4.6
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	18.18	7.1	3.7		0.0	0.21		0.5	3.36	0.27		3.0
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	7.75	3.5	1.2		0.0	0.07		0.2	1.12	0.09		1.5
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 3	5.144282278	1.44037889		0.271790529	1.717942798		4.687279203				13.19892599
19		L2= Areas 3,4	18.12910868	2.08123615		0.377333809	3.190830859		6.733970955				32.64108469
20		Sr= Fresno, Madera	52.0082	3.6939		0.513282065	6.0925		8.80858				77.1245
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.66167				259.4796
22	NOx	L1= Area 3								53.09297716			
23		L2= Areas 3,4								87.42667368			
24		Sr= Fresno, Madera								141.091558			
25		R= SJV								566.106052			
26	TOG	L1= Area 3			23.6155704			134.6108355					
27		L2= Areas 3,4			34.6974925			261.9739073					
28		Sr= Fresno, Madera			59.7409			403.8383					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 3									3.208421732		
31		L2= Areas 3,4									5.196267289		
32		Sr= Fresno, Madera									8.3462		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Fresno Drummond, 10/21/99, Design Value 162**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 3	6.026318953	1.33688393		0.369115715	1.952368306		5.160014131				14.81755579
135		L2= Areas 3,4	21.36949755	1.98011231		0.545118257	3.564545348		7.380738312				34.83889825
136		Sr= Fresno, Madera	61.2556	3.411		0.748475684	6.8186		9.660982				81.146182
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.38678				262.34138
138	PM10 2010 EI with new controls	L1= Area 3	4.81929613	1.28164262		0.369115715	1.602759632		0.417086349				8.462755205
139		L2= Areas 3,4	17.08936046	1.89829219		0.545118257	2.926245716		2.143966047				24.60186915
140		Sr= Fresno, Madera	48.9866	3.27005425		0.748475684	5.5976		2.707562				60.56181625
141		R= SJV	150.7995	11.6004		2.63	26.2947		6.98712				195.68172
142	NOx 2010 EI without new controls	L1= Area 3								33.84924681			
143		L2= Areas 3,4								60.32164287			
144		Sr= Fresno, Madera								99.461182			
145		R= SJV								400.830212			
146	NOx 2010 EI with new controls	L1= Area 3								31.13954172			
147		L2= Areas 3,4								55.49276547			
148		Sr= Fresno, Madera								91.49910021			
149		R= SJV								363.712212			
150	TOG 2010 EI without new controls	L1= Area 3			12.1987148			158.2284228					
151		L2= Areas 3,4			18.8901037			307.8758327					
152		Sr= Fresno, Madera			33.9576			474.4962					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 3			12.1987148			154.9894661					
155		L2= Areas 3,4			18.8901037			301.5735736					
156		Sr= Fresno, Madera			33.9576			464.7832					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 3									3.767808727		
159		L2= Areas 3,4									6.083482512		
160		Sr= Fresno, Madera									9.8315		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 3									3.485745235		
163		L2= Areas 3,4									5.628064404		
164		Sr= Fresno, Madera									9.0955		
165		R= SJV									25.9547		
210													
211	2010-2011 Rollback Projection												
212	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	58.1	5.8	3.2	0.0	0.4	0.4	1.8	8.5	1.1		23.9
213	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	12.5	3.6	2.0	0.0	0.2	0.2	1.1	5.3	0.6		4.9
214	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	8.3	1.7	1.1	0.0	0.1	0.1	0.5	2.7	0.3		3.2
215	Regional Contribution	=(2010 R/1999 R) * LINE 7	4.0	0.6	0.3	0.0	0.0	0.0	0.2	0.9	0.1		1.5
216	+ Natural Background contribution	= LINE 2	3.7	0.0		0.0	0.3		0.8	1.2	1.0	0.0	0.0
217	2010-2011 projected Annual Result	166.49	86.7	11.6	6.6	0.0	1.1	0.8	4.4	18.6	3.1	0.0	33.5
218	2010-2011 Rollback Projection with additional controls												
219	Local Contribution PM2.5-PM10 Area of Influence	=(2010 L1/1999 L1) * LINE 4	46.4	5.5	3.2	0.0	0.3	0.4	0.1	8.1	1.0		13.6
220	Local Contribution Area of Influence o PM2.5	=(2010 L2/1999 L2) * LINE 5	10.0	3.4	2.0	0.0	0.2	0.2	0.3	5.1	0.6		3.4
221	Sub regional Contribution	=(2010 Sr1/1999 Sr2) * LINE 6	6.7	1.7	1.1	0.0	0.1	0.1	0.2	2.6	0.3		2.4
222	Regional Contribution	=(2010 R/1999 R) * LINE 7	3.1	0.5	0.3	0.0	0.0	0.0	0.0	0.9	0.1		1.1
223	+ Natural Background contribution	= LINE 2	3.7	0.0		0.0	0.3		0.8	1.2	1.0	0.0	0.0
224	2010-2011 projected Annual Result	132.36	70.0	11.1	6.6	0.0	1.0	0.8	1.5	17.8	2.9	0.0	20.6
225													
226	end												

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Corcoran, 01/07/01, Design Value = 165**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**COP 01/07/01 165**	30.8	7.60		0.9	6.15		14.35	84.8	6.8	0.00	13.66
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations =5%	0, no natural background, transport estimated at 0		0, no natural background, transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions = 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations =5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	10.88	1.5	0.0		0.0	1.2		2.9	4.2	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	154.12	29.2	7.6		0.9	4.9		11.5	80.6	5.8	0.0	13.7
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	85.82	20.5	3.8		0.6	2.5		5.7	40.3	2.9		9.6
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	39.67	4.4	2.3		0.1	1.48		3.4	24.2	1.7		2.0
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	20.93	2.9	1.1		0.1	0.74		1.7	12.09	0.87		1.4
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	7.71	1.5	0.4		0.0	0.25		0.6	4.03	0.29		0.7
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 6	8.090996974	0.07011068		0.010191073	0.701900918		0.792501794				9.594216264
19		L2= Areas 6,8	15.38845796	0.47570323		0.06472039	1.347954357		4.579832724				21.00338221
20		Sr= Kings, Tulare	41.8723	2.2949		0.292697229	4.6994		3.72884				52.59544
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.50111				234.16841
22	NOx	L1= Area 6								5.111869314			
23		L2= Areas 6,8								19.27396272			
24		Sr= Kings, Tulare								75.597214			
25		R= SJV								566.106052			
26	TOG	L1= Area 6			1.12128052			15.69464415					
27		L2= Areas 6,8			7.28136385			71.6415634					
28		Sr= Kings, Tulare			35.3014			237.7348					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 6									0.113101131		
31		L2= Areas 6,8									0.302209071		
32		Sr= Kings, Tulare									1.5647		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Corcoran, 01/07/01, Design Value = 165**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 6	8.994995716	0.06426388		0.01502518	0.79453837		0.765694156				10.53555057
135		L2= Areas 6,8	17.33036355	0.41830855		0.096925115	1.622380789		4.441317954				23.06594825
136		Sr= Kings, Tulare	47.143	2.0369		0.437456258	5.7943		11.112322				66.086522
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.38678				262.34138
138	PM10 2010 EI with new controls	L1= Area 6	7.046712806	0.06160843		0.01502518	0.704722062		0.079566768				7.808668523
139		L2= Areas 6,8	13.57667069	0.40102365		0.096925115	1.438983413		0.461517581				15.13177274
140		Sr= Kings, Tulare	36.932	1.95273336		0.437456258	5.1393		1.154732				45.17876536
141		R= SJV	150.7995	11.6004		2.63	26.2947		6.98712				195.68172
142	NOx 2010 EI without new controls	L1= Area 6								3.29593365			
143		L2= Areas 6,8								13.06873413			
144		Sr= Kings, Tulare								50.439232			
145		R= SJV								400.830212			
146	NOx 2010 EI with new controls	L1= Area 6								2.982887997			
147		L2= Areas 6,8								11.82747419			
148		Sr= Kings, Tulare								45.64854627			
149		R= SJV								363.712212			
150	TOG 2010 EI without new controls	L1= Area 6			0.65980505			20.44330532					
151		L2= Areas 6,8			4.15410786			93.85525593					
152		Sr= Kings, Tulare			21.1157			310.4611					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 6			0.65980505			20.19775737					
155		L2= Areas 6,8			4.15410786			92.72794482					
156		Sr= Kings, Tulare			21.1157			306.7321					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 6									0.114722914		
159		L2= Areas 6,8									0.289261411		
160		Sr= Kings, Tulare									1.5189		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 6									0.113061248		
163		L2= Areas 6,8									0.2850717		
164		Sr= Kings, Tulare									1.4969		
165		R= SJV									25.9547		
226	end												
227													
228													
229	2010-2011 Rollback Projection without additional controls	Quick format County Rollback only											
230	County Emissions Rollback	=1999 County EI/2010 County EI with Emission Reductions	32.89702046	3.37131847	2.2719951	1.363480518	3.032197114	3.211539725	34.20083546	62.7	5.603854724		17.15965946
231	+ Natural Background contribution	= LINE 2	1.54	0.00		0.00	1.23		2.87	4.24	1.00	0.00	0.00
232	2010-2011 projected Annual Result	176.68	34.4	3.4	2.3	1.4	4.3	3.2	37.1	66.9	6.6	0.0	17.2
233													
234	2010-2011 Rollback Projection with additional controls	Quick format County Rollback only											
235	County Emissions Rollback	=1999 County EI/2010 County EI with Emission Reductions	25.77164711	3.23201239	2.2719951	1.363480518	2.689431101	3.172965386	3.553964611	59.3	5.522687561		11.73086743
236	+ Natural Background contribution	= LINE 2	1.54	0.00		0.00	1.23		2.87	4.24	1.00	0.00	0.00
237	2010-2011 projected Annual Result	129.48	27.3	3.2	2.3	1.4	3.9	3.2	6.4	63.5	6.5	0.0	11.7

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Hanford, 12/23/99, Design Value 156**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
2	Line1 Source Contribution from Analysis	From CMB analysis of most similar day to design day	From CMB	From CMB		From CMB	Estimated portion of mass included in Vegetative Burning =30%		From CMB minus estimated Organic Carbon from other sources	From CMB	From CMB	From CMB, if present	Unaccounted mass from CMB, if any.
3	LINE 1	**HAN 12/23/99 156**	49.35	8.14		0.45	7.55		17.62	67.99	4.53	0.00	0.00
4	Line2 Natural and Transport Contribution, see "Background" sheet	Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations =5%	0, no natural background, transport estimated at 0		0, no natural background, transport estimated at 0	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions = 20%		see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. No wildfires except 10/21/99. Includes biogenic emissions = 20%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations =5%	see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations	100% because marine salts are a natural emission	0, background estimate at maximum, no additional background estimate for unexplained mass
5	LINE 2	11.90	2.5	0.0		0.0	1.5		3.5	3.4	1.0		
6	Line 3 Net for Rollback	Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated.								Net for non-linear rollback, default percentages adjustable for episode characteristics		Removed entirely from rollback, added back to result	
7	LINE 3	143.73	46.9	8.1		0.5	6.0		14.1	64.6	3.5	0.0	0.0
8	Line4 Local Contribution PM2.5-PM10 Area of Influence	Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates	70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net	70%PM10 50%PM2.5 of net, non-linear rollback	70%PM10 50%PM2.5 of net		70%PM10 50%PM2.5 of net
9	LINE 4	81.33	32.8	4.1		0.3	3.0		7.0	32.3	1.8		0.0
10	Line5 Local Contribution Area of Influence of PM2.5	Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration	15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5		15%PM10 30%PM2.5	15%PM10 30%PM2.5 non-linear rollback	15%PM10 30%PM2.5		15%PM10 30%PM2.5
11	LINE 5	36.02	7.0	2.4		0.1	1.81		4.2	19.4	1.1		0.0
12	Line6 Sub regional Contribution	Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration	10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5		10%PM10 15%PM2.5	10%PM10 15%PM2.5 non-linear rollback	10%PM10 15%PM2.5		10%PM10 15%PM2.5
13	LINE 6	19.19	4.7	1.2		0.0	0.91		2.1	9.69	0.53		0.0
14	Line7 Regional Contribution	Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration	5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5		5%PM10 5%PM2.5	5%PM10 5%PM2.5 non-linear rollback	5%PM10 5%PM2.5		5%PM10 5%PM2.5
15	LINE 7	7.19	2.3	0.4		0.0	0.30		0.7	3.23	0.18		0.0
16	Associated Emissions Categories	Based upon appropriate seasonal or annual inventory	PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations + PM10 construction	PM10, TOG & CO onroad mobile+ PM10, TOG & CO offroad equipment PM10, TOG & CO farm equipment CO presumed to add minimal mass		Tire and brake wear as predicted by EMFAC2002	Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass		PM10 & CO residential burning + PM10 & CO waste burning and disposal reduced 98% by no burn status PM10 cooking CO presumed to add minimal mass	Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) *Previous method set aside a portion from rollback calculations due to lack o Ag E.I. NOx and ammonia sources, emissions data are now included, this set-aside is not required	Total SOx	None, natural emission from the ocean, bay and delta waters	Total PM10 minus PM10 windblown for episodes which are not high wind
17	1999 Emissions Inventory	(area of influence emissions inventory, each on a separate line for automated calculations)											
18	PM10	L1= Area 5	8.443339393	0.32129402		0.054143538	0.331818841		0.825241434				9.411236974
19		L2= Areas 5,6,7,8,10	38.64459588	2.07449706		0.304445561	4.017166383		4.709413133				45.84441997
20		Sr= Kings, Tulare	41.8723	2.2949		0.292697229	4.6994		4.777636				53.644236
21		R= SJV	169.7463	13.6135		1.92	25.3075		25.50111				234.16841
22	NOx	L1= Area 5								19.87194629			
23		L2= Areas 5,6,7,8,10								86.70044986			
24		Sr= Kings, Tulare								75.597214			
25		R= SJV								566.106052			
26	TOG	L1= Area 5			6.06945456			90.49702776					
27		L2= Areas 5,6,7,8,10			34.2012043			285.0377755					
28		Sr= Kings, Tulare			35.3014			237.7348					
29		R= SJV			208.124			1241.4875					
30	SOx	L1= Area 5									2.024265211		
31		L2= Areas 5,6,7,8,10									3.516290861		
32		Sr= Kings, Tulare									1.5647		
33		R= SJV									29.2425		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Hanford, 12/23/99, Design Value 156**	**General Note**	**Geologic and Construction**	**Mobile Exhaust**		**Tire and Brake Wear**	**Organic Carbon**		**Vegetative Burning**	**Ammonium Nitrate including associated water**	**Ammonium Sulfate**	**Marine**	**Unassigned**
133	2010-2011 Emissions Inventory												
134	PM10 2010 EI without new controls	L1= Area 5	9.521588026	0.29889051		0.078753398	0.383010025		0.765694156				11.72665154
135		L2= Areas 5,6,7,8,10	43.99523114	1.83558723		0.452449137	4.921886739		10.98191719				61.25957225
136		Sr= Kings, Tulare	47.143	2.0369		0.437456258	5.7943		11.112322				66.086522
137		R= SJV	194.0865	12.1004		2.63	28.7677		27.38678				262.34138
138	PM10 2010 EI with new controls	L1= Area 5	7.459247162	0.28654007		0.078753398	0.339713757		0.130071719				8.413246821
139		L2= Areas 5,6,7,8,10	34.46602627	1.75973902		0.452449137	4.36550619		1.141181043				41.25740248
140		Sr= Kings, Tulare	36.932	1.95273336		0.437456258	5.1393		1.154732				45.17876536
141		R= SJV	150.7995	11.6004		2.63	26.2947		6.98712				195.68172
142	NOx 2010 EI without new controls	L1= Area 5								13.0941913			
143		L2= Areas 5,6,7,8,10								60.23829325			
144		Sr= Kings, Tulare								50.439232			
145		R= SJV								400.830212			
146	NOx 2010 EI with new controls	L1= Area 5								11.85051345			
147		L2= Areas 5,6,7,8,10								54.516899			
148		Sr= Kings, Tulare								45.64854627			
149		R= SJV								363.712212			
150	TOG 2010 EI without new controls	L1= Area 5			3.49350812			112.3990741					
151		L2= Areas 5,6,7,8,10			19.9495808			363.5395791					
152		Sr= Kings, Tulare			21.1157			310.4611					
153		R= SJV			113.1861			1484.3529					
154	TOG 2010 EI with new controls	L1= Area 5			3.49350812			111.0490301					
155		L2= Areas 5,6,7,8,10			19.9495808			359.1730447					
156		Sr= Kings, Tulare			21.1157			306.7321					
157		R= SJV			113.1861			1440.6909					
158	SOx 2010 EI without new controls	L1= Area 5									2.38479726		
159		L2= Areas 5,6,7,8,10									3.89360954		
160		Sr= Kings, Tulare									1.5189		
161		R= SJV									32.2467		
162	SOx 2010 EI with new controls	L1= Area 5									2.35025546		
163		L2= Areas 5,6,7,8,10									3.837213852		
164		Sr= Kings, Tulare									1.4969		
165		R= SJV									25.9547		
226	end												
227													
228													
229	2010-2011 Rollback Projection without additional controls	Quick format County Rollback only											
230	County Emissions Rollback	=1999 County EI/2010 County EI with Emission Reductions	52.78540684	3.61286226	2.43477602	0.677274624	3.723752825	3.943998254	32.78089608	50.3	3.423611834		0
231	+ Natural Background contribution	= LINE 2	2.47	0.00		0.00	1.51		3.52	3.40	1.00	0.00	0.00
232	2010-2011 projected Annual Result	165.55	55.3	3.6	2.4	0.7	5.2	3.9	36.3	53.7	4.4	0.0	0.0
233													
234	2010-2011 Rollback Projection with additionat controls	Quick format County Rollback only											
235	County Emissions Rollback	=1999 County EI/2010 County EI with Emission Reductions	41.35228232	3.46357537	2.43477602	0.677274624	3.302811883	3.896626234	3.406412242	47.5	3.374023672		0
236	+ Natural Background contribution	= LINE 2	2.47	0.00		0.00	1.51		3.52	3.40	1.00	0.00	0.00
237	2010-2011 projected Annual Result	121.34	43.8	3.5	2.4	0.7	4.8	3.9	6.9	50.9	4.4	0.0	0.0

Source Apportionment of PM10 Concentrations Determined by Chemical Mass Balance (in ug/m3)

Using CRPAQS Data and Fugitive Dust Profiles Selected By District

Green highlight indicates accepted results used for rollback analysis
Design Value Episodes
District and CRPAQS Episodes above standard but less severe than design value episode
CRPAQS Episodes more severe than design value
Higlighted, black text are poor performance values
Red text were rejected, retested with revised chemistry estimation

SITEID	DATE	CONC	UCONC	% Mass	RSQ	CHI SQ	Wood Burning Mass	Wood Burning Unc	MV Exhaust Mass	MV Exhaust Unc	TiresAndBrakes Mass	TiresAndBrakes Unc	Nitrate Mass	Nitrate Unc	Sulfate Mass	Sulfate Unc	Geo- logical Mass	Geo- logical Unc	Geological Profile	Unassigned
January 1999																				
OLD	1/12/99	156	7.9	87.4	1.0	0.6	14.5	4.8	4.6	3.0	0.9	0.9	77.0	6.8	7.1	0.7	32.2	6.3	FDOIL	19.67
November 1999																				
BGS	11/14/99	183	9.2	91.1	1.0	1.0	16.5	7.0	6.1	4.2	1.9	1.5	85.3	6.9	6.3	0.6	50.6	10.5	FDBACNOV	16.27
December 1999																				
COP	12/17/99	174	8.8	92.1	1.0	0.5	25.0	7.7	6.4	4.0	0.9	0.9	71.4	6.1	4.9	0.5	51.7	8.0	FDCOPDEC	13.68
FSD	12/23/99	168	8.5	87.5	1.0	0.7	31.1	9.9	8.4	5.4	1.0	1.0	57.5	4.9	3.1	0.6	46.2	7.0	FDFREDEC	20.98
HAN	12/23/99	156	7.9	100.9	0.9	0.6	25.4	7.5	8.2	4.6	0.5	0.8	68.6	5.8	4.6	0.5	49.8	7.2	FDCOPDEC	-1.46
HAN	12/23/99	156	scaled to remove overestimate				25.1676		8.1410		0.4532		67.9930		4.5268		49.3514			0.0000
Winter 2000/2001																				
CLO	1/1/01	155	7.9	95.7	1.0	1.3	23.2	8.5	13.7	7.5	2.1	1.2	74.8	6.1	4.4	0.5	30.2	5.7	FDFREDEC	6.66
FSD	1/1/01	186	9.4	87.9	1.0	1.1	40.1	11.3	18.5	9.6	2.5	1.5	62.4	5.1	5.0	0.7	35.1	6.8	FDFREDEC	22.44
FSD	1/4/01	159	8.1	87.9	1.0	1.1	34.3	9.6	15.8	8.2	2.1	1.3	53.4	4.4	4.3	0.6	30.0	5.8	FDFREDEC	19.19
BGS	1/1/01	205	10.3	93.6	1.0	0.9	23.3	6.3	6.7	4.7	1.3	1.7	95.4	7.8	7.0	0.7	58.2	9.6	FDBACJAN	13.07
BGS	1/4/01	208	10.5	93.6	1.0	0.9	23.6	6.4	6.8	4.8	1.3	1.7	96.6	7.9	7.1	0.7	58.9	9.7	FDBACJAN	13.23
BGS	1/7/01	174	8.8	93.6	1.0	0.9	19.8	5.4	5.7	4.0	1.1	1.4	81.0	6.6	6.0	0.6	49.4	8.1	FDBACJAN	11.09
OLD	1/1/01	158	8.0	97.1	1.0	0.5	14.5	4.9	4.7	3.1	0.9	0.9	93.9	8.2	6.5	0.7	32.8	6.5	FDOIL	4.60
OLD	1/4/01	195	9.9	93.8	1.0	0.5	17.8	6.1	5.9	3.9	1.1	1.1	109.8	9.6	7.7	0.8	40.7	8.0	FDOIL	12.09
COP	1/7/01	165	8.4	91.7	1.0	0.5	20.5	6.2	7.6	4.3	0.9	0.7	84.8	7.5	6.8	0.7	30.8	5.5	FDCOPJAN	13.66
HAN	1/7/01	185	9.6	102.9	1.0	0.4	27.6	9.7	14.7	7.8	1.7	1.1	96.9	7.9	7.2	0.7	42.4	7.7	FDCOPJAN	-5.38
HAN	1/7/01	185	scaled to remove overestimate				26.7850		14.2530		1.6312		94.1627		6.9605		41.2076			0.0000

Source Apportionment of PM10 Concentrations Determined by Chemical Mass Balance (in ug/m3)

Using Routine Data and Fugitive Dust Profiles Selected By District

SITEID	DATE	CONC	UCONC	% Mass	RSQ	CHI SQ	Wood Burning Mass	Wood Burning Unc	MV Exhaust Mass	MV Exhaust Unc	TiresAndBrakes Mass	TiresAndBrakes Unc	Nitrate Mass	Nitrate Unc	Sulfate Mass	Sulfate Unc	Geo- logical Mass	Geo-logical Unc	Geological Profile	Unassigned
October 1999																				
FSD	10/21/99	162	16.2	69.6	1.0	1.1	26.2	14.5	-6.0	10.0	3.7	1.9	15.4	1.8	3.6	0.8	70.0	7.2	FDFREOCT	
TUR	10/21/99	157	15.7	75.8	0.7	6.0	25.6	10.0	10.8	7.5	1.6	0.9	16.2	1.9	2.7	0.6	62.0	6.5	FDTUR	38.02
COP	10/21/99	174																	FDCOPOCT	

Estimated PM10 Source Contributions for Fresno-Drummond and Corcoran During October 1999 Episode
Concentrations and Source Contributions are in ug/m3

SITEID	DATE	CONC	UCONC	% Mass	RSQ	CHI SQ	Wood Burning Mass	Wood Burning Unc	MV Exhaust Mass	MV Exhaust Unc	Nitrate Mass	Nitrate Unc	Sulfate Mass	Sulfate Unc	Geological Mass	Geological Unc	Geological Profile	Unassigned
Fresno-Drummond (with TC estimated at 30 ug/m3)							**WBOakEuc**											
FSDC4	10/21/99	162	16.2	81.2	0.9	2.0	5.8	10.5	24.9	12.7	23.6	2.6	2.8	0.8	74.5	7.2	FDFREOCT	30.40
Performance for Fresno meets minimal acceptance criteria, note the uncertainty for the motor vehicle estimate.																		
Motor vehicle contribution is higher than January, but this is believable since the heavy duty traffic volume is so much less in January than October.																		
Corcoran-Patterson							**WBOakEuc**											
COPC	10/21/99	174	17.4	88.7	0.8	2.9	18.2	14.9	15.4	10.2	24.6	2.7	3.5	0.6	92.7	9.1	FDCOPOCT	19.64

Source Apportionment of PM10 Concentrations Determined by Chemical Mass Balance (in ug/m3)

Using Routine Data and Fugitive Dust Profiles Selected By District

SITEID	DATE	CONC	UCONC	% Mass	RSQ	CHI SQ	Wood Burning Mass	Wood Burning Unc	MV Exhaust Mass	MV Exhaust Unc	TiresAndBrakes Mass	TiresAndBrakes Unc	Nitrate Mass	Nitrate Unc	Sulfate Mass	Sulfate Unc	Geo- logical Mass	Geo-logical Unc	Geological Profile	Unassigned
Winter 2000/2001																				
FSF	1/1/01	193	19.3	91.9	0.9	2.4	73.0	11.0	0.8	3.9	1.3	0.7	73.7	7.6	3.7	0.8	24.8	3.0203	FDFREDEC	15.63
BAC	1/1/01	186	18.6	97.3	0.9	2.6	42.5	7.2	-0.2	3.8	1.7	1.4	92.3	9.5	5.6	0.8	39.0	5.2862	FDBACJAN	5.07
BAC	1/4/01	190	19.0	92.1	0.9	2.5	37.8	6.9	0.0	3.9	1.8	1.4	89.7	9.2	5.4	0.7	40.2	5.4082	FDBACJAN	15.05
BAC	1/7/01	159	13.2	91.9	0.9	2.4	29.9	5.6	0.1	3.3	1.5	1.2	76.9	7.9	4.1	0.6	33.6	4.5032	FDBACJAN	12.90
M14	1/7/01	158	8.2	89.8	0.8	2.6	30.2	7.6	5.4	5.9	4.7	1.4	83.9	8.7	7.4	0.7	10.4	3.0	FDM16	16.04

CMB Source Contribution For Additional Runs

FSF and BAC Routine Data were combined with geological data from CRPAQS. CRPAQS Data were scaled based on the difference in weight.
FSD 1/4/01 CRPAQS data were used for estimating geological fraction at FSF. BGS 1/4/01 CRPAQS data were used for estimating geological fraction at BAC.
Site Symbol Followed by C (FSFC or BACC) represents a combination in which all of the XRF Species were scaled from CRPAQS data.
Site Symbol Followed by C3 (FSFC3 or BACC3) represents a combination in which only the geological species (Al, SI, FE, CA) were scaled from CRPAQS data.
The remaining XRF species were retained from the original extrapolation (as described in the document "Estimating Chemical Composition for CMB Modeling").

SITEID	DATE	CONC	UCONC	% Mass	RSQ	CHI SQ	Wood Burning		MV Exhaust		Nitrate		Sulfate		Geological		Geological Profile	Unassigned
							Mass	Unc	Mass	Unc	Mass	Unc	Mass	Unc	Mass	Unc		
Mistake (With Wrong Geological Profile)																		
FSFC	1/1/01	193	19.3	100.9	0.9	1.2	38.0	14.2	27.8	11.8	72.8	7.6	4.8	0.7	51.2	6.2	FDFREDEC	
FSFC3	1/1/01	193	19.3	96.5	0.8	3.0	50.2	10.1	22.1	8.6	73.5	7.6	3.7	0.7	36.7	3.9	FDFREDEC	
With Original Profile Selection																		
FSFC	1/1/01	193	19.3	99.0	0.9	1.1	39.4	15.5	31.2	13.9	73.1	7.6	4.9	0.7	42.5	6.7	FDFREDEC	
FSFC3	1/1/01	193	19.3	90.9	0.9	1.8	33.9	11.4	25.5	11.1	73.9	7.6	3.8	0.7	38.3	5.7	FDFREDEC	17.59
BACC	1/1/01	186	18.6	103.7	1.0	0.9	38.3	7.0	2.2	2.7	91.6	9.4	6.9	0.8	54.0	8.5	FDBACJAN	
BACC3	1/1/01	186	18.6	100.3	0.9	2.4	38.5	6.8	2.0	2.6	92.3	9.5	5.6	0.8	48.2	7.7	FDBACJAN	
BACC	1/4/01	190	19.0	98.8	1.0	0.9	33.4	6.7	2.4	2.9	89.0	9.2	6.6	0.7	56.2	8.7	FDBACJAN	
BACC3	1/4/01	190	19.0	95.2	0.9	2.2	33.4	6.5	2.6	2.9	89.7	9.2	5.4	0.7	49.7	7.8	FDBACJAN	
BACC	1/7/01	159	13.2	98.9	1.0	0.9	26.2	5.4	2.0	2.4	76.3	7.8	5.0	0.6	47.8	7.3	FDBACJAN	
BACC3	1/7/01	159	13.2	95.1	0.9	2.1	26.3	5.3	2.2	2.4	76.9	7.9	4.1	0.5	41.8	6.5	FDBACJAN	

BAC geological profile replaced with composite of geologic profiles

PM10 Source Contribution Estimates in ug/m3, Rechecked 2/20/03 version

SITEID	DATE	CONC	UCONC	% Mass	RSQ	CHI SQ	Wood Burning		MV Exhaust		TiresAndBrakes		Nitrate		Sulfate		Geological		Geological Profile	Unassigned
							Mass	Unc	Mass	Unc	Mass	Unc	Mass	Unc	Mass	Unc	Mass	Unc		
BAC	1/1/01	186	18.60	98.17	0.81	3.16	40.59	9.01	8.02	6.03	1.63	0.80	92.17	9.48	5.94	0.96	34.25	4.53	Composite	
BACC3	1/1/01	186	18.60	99.64	0.80	3.12	37.65	9.77	9.14	6.82	2.12	0.97	92.15	9.48	5.98	0.99	38.28	5.49	Composite	0.67
BAC	1/4/01	190	19.00	93.44	0.80	3.22	36.79	8.85	7.68	6.00	1.67	0.83	89.68	9.21	5.54	0.92	36.17	4.70	Composite	
BACC3	1/4/01	190	19.00	94.96	0.80	3.16	34.14	9.51	8.59	6.67	2.17	0.99	89.68	9.21	5.55	0.95	40.29	5.58	Composite	9.57
BAC	1/7/01	159	13.16	93.31	0.80	3.23	29.33	7.27	6.32	4.96	1.38	0.69	76.95	7.87	4.04	0.72	30.36	3.92	Composite	
BACC3	1/7/01	159	13.16	94.90	0.79	3.16	27.19	7.81	7.04	5.50	1.80	0.82	76.96	7.88	4.02	0.74	33.88	4.65	Composite	8.11

Composite profile is a composite of all fugitive dust profiles