Draft
Emission Inventory Report

AIR QUALITY MODELING ANALYSIS FOR THE SAN JUAN COUNTY EARLY ACTION OZONE COMPACT: Development of the 2007 Base Case Modeling Inventory

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1. INTRODUCTION

ENVIRON International Corporation and Alpine Geophysics, LLC are performing photochemical modeling for the New Mexico Environment Department (NMED) to support the development of a 8-hour ozone attainment control plan for San Juan County, New Mexico as part of an Early Action Compact (EAC) State Implementation Plan (SIP) due in 2004. The June 5, 2002 to July 23, 2002 modeling period was selected along with a 36/12/4 km nested-grid modeling domain that includes Mexico in the south to Wyoming in the north and California in the west to western Missouri to the east. A Modeling Protocol has been prepared that describes the rationale for the episode selection, model and domain selection and procedures for performing the photochemical modeling and 8-hour ozone attainment demonstration (Tesche et al., 2003a). The same ENVIRON/Alpine science team is also performing 8-hour ozone EAC modeling for the Denver, Colorado area for the Denver Regional Air Quality Council (DRAQC) and the Colorado Department of Public Health and Environment (CDPHE) (Tesche et al., 2003b).

The June 5 - July 23, 2002 episode is being modeled in CAMx using a Lambert Conformal Projection (LCP) nested grid configuration with grid resolutions of 36, 12 and 4 km. In CAMx, emissions are separated between surface (surface and low level point) emissions and elevated point source emissions. For the surface emissions, a separate emission inventory is required for each grid nest, i.e., four inventories. For elevated point sources, a single emission inventory is prepared covering all grid nests. Figure 1-1 displays the modeling domain including the nested grid configuration. Emission inventories were prepared for the 2002 base and 2007 future year.

This report describes the 2007 base case emission inventory preparation for the June 5 - July 23, 2002 modeling episode for the San Juan County, New Mexico EAC air quality modeling. Emission inventories are processed using version 2x of the Emissions Processing System (EPS2x) for area, off-road, on-road mobile and point sources (ENVIRON, 2001). The purpose of the emissions processing is to format the emission inventory for CAMx photochemical modeling. Data sources and processing steps required to develop the emission inventory are documented in the following sections.

A discussion of the emission processing required to develop the model-ready emission inventory was presented in ENVIRON, 2003a. This report documents the data sources used in the development of 2007 base case inventory. Section 2 presents the data sources and summarizes the processing steps used. Summaries of the inventory by major source category (area, on-road mobile, off-road mobile, stationary point and biogenic) are presented in Section 3.

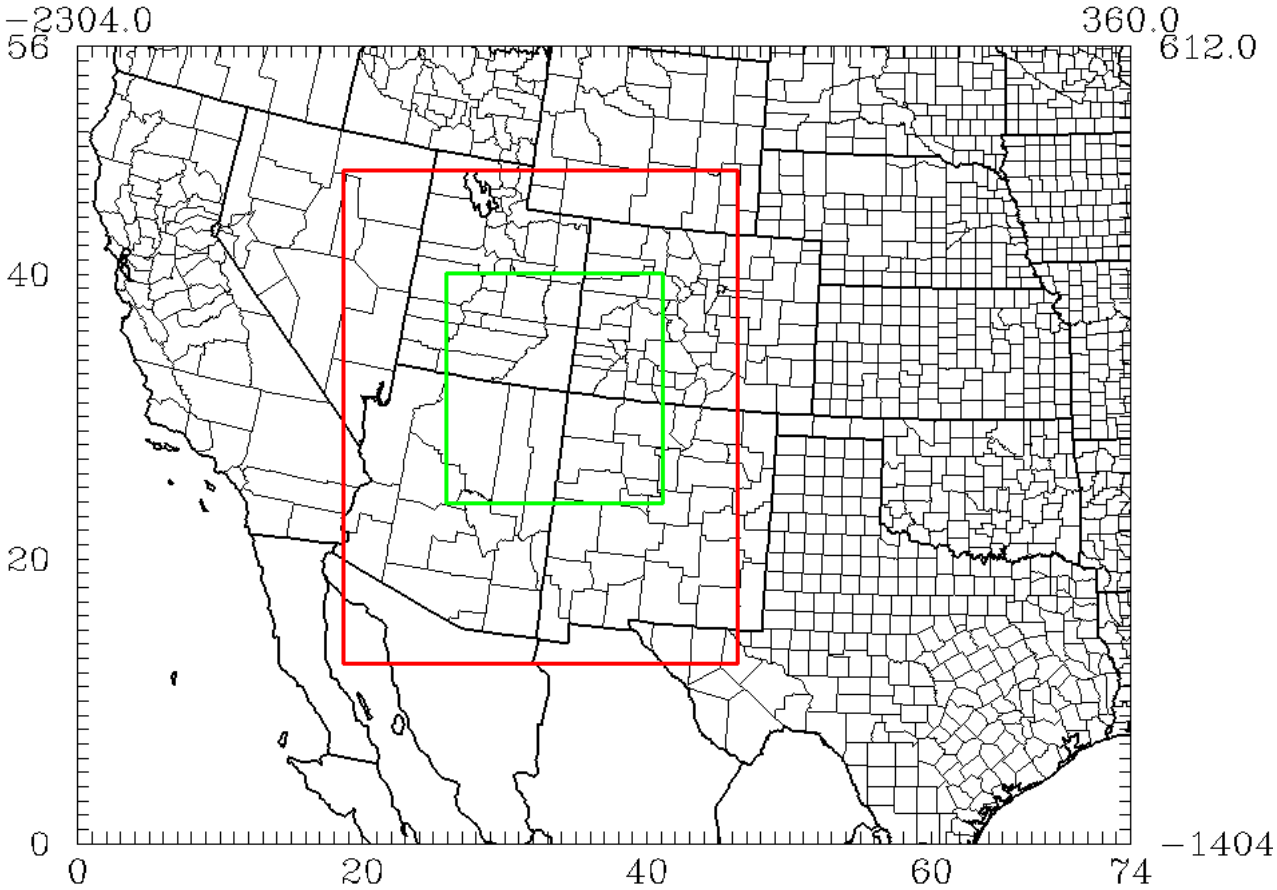

Figure 1-1. San Juan County EAC air quality modeling domains.

2. DATA SOURCES AND EMISSION INVENTORY PROCESSING

The emissions data and processing steps used in the development of the 2007 base case inventory for the San Juan EAC air quality modeling project are described in the section.

Emissions Modeling

CAMx requires two types of emission input files:

1. Surface emissions from area, mobile, off-road, low-level point and biogenic sources are gridded to the CAMx nested grid system. This means that separate surface emissions files will be prepared for the 36 km, 12 km and 4 km grids. The surface emissions are injected into the lowest layer of the model.

2. Elevated emissions from major point sources are injected into CAMx at the coordinates of each source. The plume rise for each source is calculated by CAMx from stack parameters so that the emissions are injected into the appropriate vertical layer. Emissions from selected major NOx emitters may be treated with the CAMx Plume-in-Grid (PiG) module.

Emissions for different major source groups (e.g., on-road mobile, off-road mobile, area, point and biogenic) were processed separately and merged together prior to CAMx modeling. This simplifies the processing and assists quality assurance (QA) and reporting tasks. The outputs from the emissions model are called the "model-ready" emissions, and are day-specific, gridded, speciated and temporally (hourly) allocated. The emission files were prepared using version 2x of the Emissions Processing System (EPS2x). EPS2x performs all of the processing steps for the anthropogenic emissions. The biogenic inventories were generated with GloBEIS version 3.1, which includes various enhancements to estimate the effects of drought conditions on biogenic emissions. The emissions model performs several tasks, briefly summarized below.

Temporal adjustments

Adjust emission rates for seasonal, day-of-week and hour-of-day effects. Default temporal profiles by SIC/SCC are used in EPS2x to adjust annual and peak ozone season emission estimates for the specific episode period.

Chemical Speciation

Emission estimates for total VOC were converted to the more detailed chemical speciation used by the Carbon Bond 4 (CB4) chemical mechanism in CAMx. Speciation profiles by SIC/SCC codes, based on EPA default data, as well as of various updates and improvements incorporated into the speciation database, were used in the EPS2x emissions modeling. The speciation of oil and gas sources in Northwest New Mexico was based on basin-specific data provided by NMOGA, as discussed in ENVIRON, 2003a. Total unspeciated NOx emissions are allocated to NO and NO_2 components.

Spatial Allocation

The spatial resolution of the emissions must be matched to the CAMx grid(s). Area and off-road mobile sources are estimated at the county level, and are allocated to the grid cells within each county based on spatial surrogates (e.g., population and economic activity). Link specific mobile source emissions (from transportation models) and are allocated to model grid cells using the LBASE module of EPS2x. Biogenic emissions are gridded for the modeling domain using the GloBEIS model. Data sources and surrogate assignments were detailed in ENVIRON, 2003a.

Growth and Control

Emissions estimated for one year may need to be adjusted for use in a different year. For the 2002 base case modeling, a large portion of the emission inventory data was based on EPA's NEI99 and so the growth, or projection, modules of EPS2x were utilized. Emission estimates for 1999 for states other than Colorado were projected to 2007 using growths factors developed using EGAS. For the 2007 base case inventory, county-level emissions data were provided or estimated. Thus, no growth or projection was required for the 2007 emissions inventory.

Quality Assurance

The emissions model includes powerful QA and reporting features to keep track of the adjustments at each processing stage and ensure that data integrity is not compromised. Message files generated by the EPS2x processors were reviewed through out each stage of the emission processing. Summary tables were developed and reviewed for accuracy and completeness. The emission inventory is summarized in Section 3 of this report.

Data Sources and Emissions Processing

Except for one power plant in New Mexico, the New Mexico Environmental Department (NMED) did not provide any specific emissions data for the 2007 emissions inventory. Future year emission estimates for oil and gas production in the San Juan Basin were provided by the New Mexico Oil and Gas Association (NMOGA) The Colorado Department of Public Health and Environment (CDPHE) provided emission inventory data for 2007 for the entire State of Colorado. For the remaining states within the modeling domain, several county-level emission inventories were used to develop the CAMx modeling inventories. A draft emission inventory for Mexico based on data used in the BRAVO study was incorporated into the inventory, primarily as a placeholder, until such time as a more accurate inventory for Mexico becomes available (ENVION, 2003b).

A summary of data sources for the development of the modeling emissions inventory is provided in Table 2-1.

Table 2-1. Summary of 2007 emissions data sources.

Category	Region	Data Source	Comments
Area Source Emissions	New Mexico	EPA's 2007 HDD Inventory	
	Colorado	CDPHE Emissions Data	
	Other States	EPA's 2007 HDD Inventory	
On-Road Mobile Sources	New Mexico	MOBILE6.2 by county for 2007 typical summer day	MOBILE6 used; No local transportation model data available
	Colorado	CDPHE Data (except Denver)	CDPHE link-based, MOBILE6 used in Denver
	California	EMFAC2002 by county for 2007 typical summer day	
	Other States	MOBILE6.2 by county for 2007 typical summer day	MOBILE6 used
Point Sources	New Mexico	EPA's 2007 HDD Inventory	Emission Estimates for MUSTANG plant provided by NMED
	Colorado	CDPHE Data	
	Other States	EPA's 2007 HDD Inventory	
Off-Road Mobile Sources	New Mexico	NONROAD2002 w/ EPA defaults	nonNR sources from EPA's 2007 HDD Inventory (locomotives, airports, commercial marine)
	Colorado	CDPHE Data	
	Other States	NONROAD2002 w/ EPA defaults	nonNR sources from EPA's 2007 HDD Inventory (locomotives, airports, commercial marine)
Biogenic Sources	Entire Domain	GloBEIS3	GloBEIS3 with BELDS3 LULC data
Oil & Gas	San Juan Basin	NMOGA Data	NMOGA unpermitted data base
	Remaining New Mexico Counties	EPA's 2007 HDD Inventory	Included in Point Source Inventory
	Colorado	CDPHE Data	Included in Point Source Inventory
	Other States	EPA's 2007 HDD Inventory	Included in Point Source Inventory

Point Sources

Point source data were obtained from different sources, processed separately and merged prior to modeling. The separate point source data includes: Colorado point sources; Other State point sources; and Mexico point sources. In addition, NMED provided emission estimates for the Mustang power plant in San Juan County. The point source data are processed for a typical peak ozone (PO) season weekday and weekend day. The 2007 Colorado point source data were provided in EPS2x AFS input format.

For all states other than Colorado, the U.S. EPA 2007 national inventories developed to assist future modeling of the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel, henceforth referred to as 2007 HDD inventory, were downloaded from EPA's ftp site.

ftp://ftp.epa.gov/EmisInventory/HDD_Rule/2007BaseCase/

Regional EGU	Egu/eg07ms2h.zip
Regional Non-EGU	NonEGUPoint/pt07ms2h.zip

The compressed files (*.zip*) contain a Dbase/FoxPro formatted file (*.dbf*) which were converted to Ascii text (*.dat*) for processing. The data is processed to (1) extract peak ozone season data for those states within the regional modeling domain other than Colorado, (2) reformatted to EPS2x AFS input file format and (3) processed through EPS2x. The 2007 HDD inventories are described in detail in *Procedures for Developing Base Year and Future Year Mass and Modeling Inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking* (ftp://ftp.epa.gov/EmisInventory/HDD_Rule/ProceduresDocument/ProcRptFinal.wpd).

The criteria for selecting NOx point sources for plume in grid treatment within the 4-km modeling domain is 2 tons NOx on any episode day. For the regional emissions grid, the NOx criteria is 25 tons per day on any episode day.

Figure 2-1 displays the gridded low-level point source NO_x, VOC and CO emissions in the 4-km modeling domain for a typical ozone season weekday.

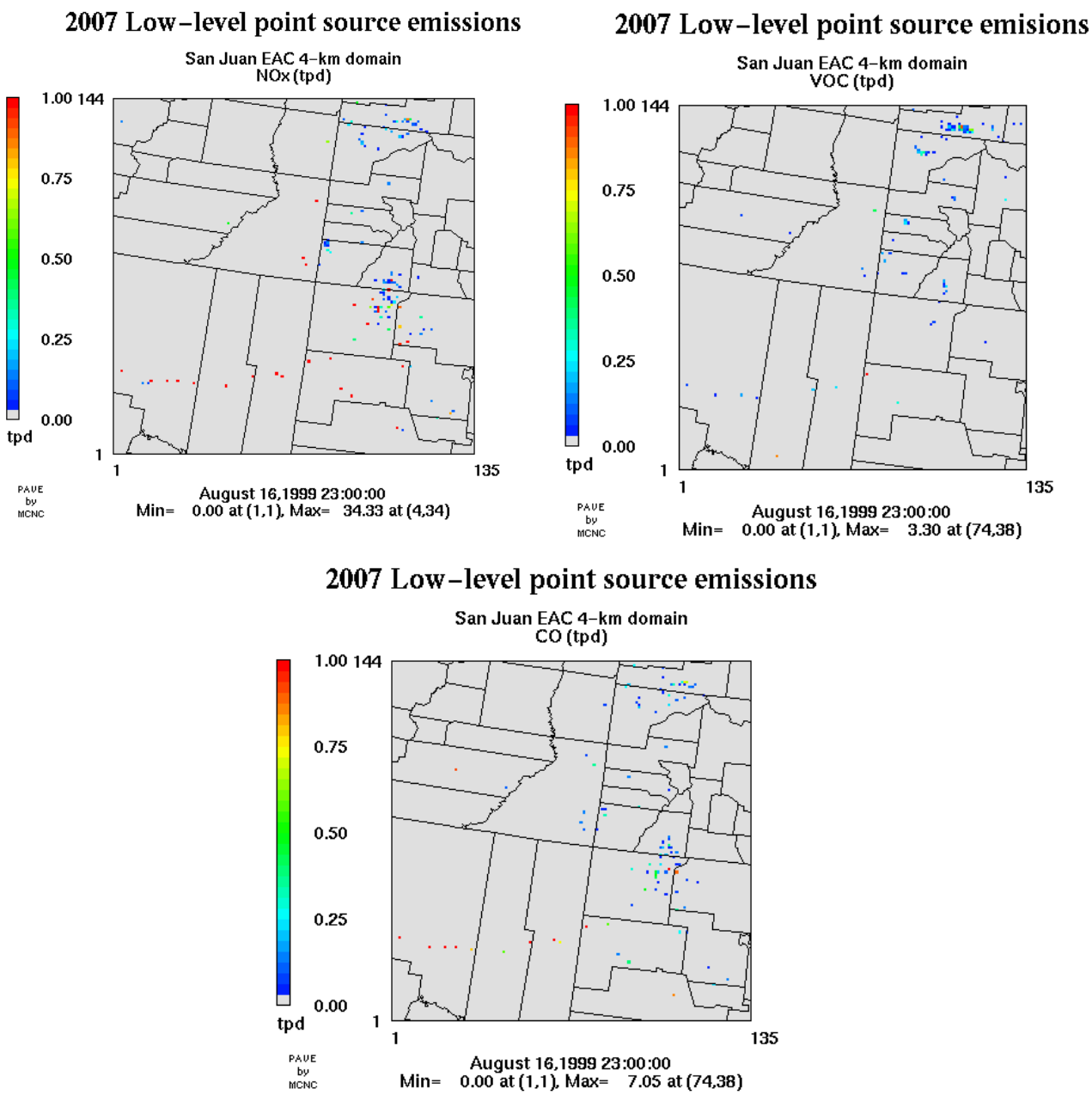

Figure 2-1. 2007 Low-level point source emissions.

On-Road Mobile Sources

On-road mobile emission sources were processed separately for the State of Colorado and all remaining states in the modeling domain and Mexico. For Colorado, link-based emissions data was provided for the Denver metropolitan area. HPMS-based VMT data provided by the CDPHE were used for the remaining counties in Colorado. On-road mobile emissions for Mexico were based on the draft inventory developed for the BRAVO study. California on-road mobile emissions were developed using the EMFAC2002 model. All other on-road mobile emission estimates were developed using the MOBILE6.2 model.

Colorado On-Road Mobile Source Emissions

A detailed discussion of the on-road mobile source emissions processing was presented in ENVIRON, 2003c. The development of the 2007 on-road mobile inventory used the same procedures as the 2002 inventory with data and assumptions representative of 2007. The following discussion summarizes the on-road mobile source emissions processing.

Emission factors in all cases were obtained from the US EPA's MOBILE6 model. Temperature and humidity inputs were taken from MM5 modeling performed by Alpine Geophysics for the air quality modeling portion of this work. In-use control inputs for the Denver, Fort Collins, and Colorado Springs areas were provided by the CDPHE. For counties not included in the group above, MOBILE6 modeling was done assuming the same RVP value (as the counties above) but no other controls.

Link-based activity (VMT) data for 2007 for the Denver, Fort Collins, and Colorado Springs areas were provided by the CDPHE. Corresponding MOBILE6 emission factors were prepared by running the model over a range of temperatures, speeds, and humidity conditions. M6LINC, an internal ENVIRON tool, was used to estimate link-specific hourly emissions by mode (start exhaust, running exhaust, running loss, resting loss, hotsoak, and crankcase). Diurnal emissions were estimated outside of M6LINC since MOBILE6 diurnal emission factors cannot be obtained at specific temperatures. These emission factors were estimated by running MOBILE6 with daily minimum and maximum temperatures (rather than for a range of specific temperatures). Table 2-2 summarizes the link-based NOx, VOC and CO emissions for the Denver Metropolitan Area and the Front Range counties of the modeling domain. The counties for which on-road mobile source emissions are based on transportation networks include: Adams, Arapahoe, Boulder, Denver, Douglas, Elbert, El Paso, Gilpin, Jefferson, Larimer, Teller and Weld.

Table 2-2. Denver Metropolitan Area/Front Range 2007 link-based emission summary (tpd).

Date	NOx	VOC	CO
6/25/07	176.34	155.09	1284.33
6/26/07	173.82	150.55	1294.48
6/27/07	176.98	157.40	1308.60
6/28/07	191.71	168.36	1375.71
6/29/07	146.23	134.55	1119.09
6/30/07	107.25	98.90	871.94
7/01/07	165.37	156.83	1265.39
7/18/07	179.09	163.96	1329.99
7/19/07	187.35	171.64	1383.08
7/20/07	133.68	122.34	1081.31
7/21/07	100.36	89.14	851.20

The development of 2007 on-road emissions for photochemical modeling is very similar to the procedures used for 2002 (as described above). This discussion describes the major assumptions used to specifically reflect the status of fuels and controls in 2007. These assumptions follow from information provided by the APCD.

With regards to future fuel specifications, the RVP was set at 9.0 psi. In addition, ENVIRON was directed by the RAQC to assume a statewide 40% market share for an ethanol-based

oxygenated fuel. In 2007, only the Denver metropolitan area was modeled with inspection and maintenance/anti-tampering programs. The test types include two-speed idle for heavy-duty gas vehicles and IM240 for light-duty gasoline cars and trucks. The final significant change in inputs was the VMT mix assumed for the Denver metropolitan area. The updated mix, provided by the APCD, put more significance on the activity of light-duty trucks and decreased activity from passenger cars.

HPMS-based VMT data were provided by the CDPHE. These data encompass all counties in the state except those with link-based data. CDPHE staff stated that VMT in counties with link-based data were greater than their HPMS counterpart estimates; therefore, the link-based estimates were used without further reconciliation. Likewise, HPMS data were used for those counties without link-based data. For these latter counties, the only MOBILE6-related differences among them are their temperatures and humidity. Thus, for each episode day, minimum and maximum daily temperatures and daily average humidity were obtained for each county. These counties were then grouped into bins such that within a bin, the variations in minimum and maximum temperatures were no more than five degrees Fahrenheit. The average daily minimum and maximum temperatures and humidity were derived for each group and used in the emission factor modeling. Each of the twelve HPMS facility classes was assigned one of four MOBILE6 road types (non-ramp freeway, arterial, local, and ramp) and a national average speed. These speeds are presented in Table 2-3. Emissions were estimated by county, episode day, pollutant/emission mode, facility type, and vehicle class.

Table 2-3. Speeds used in emission factor modeling for counties with HPMS-based VMT.

Rural						Urban					
Interstate	Principal Arterial	Minor Arterial	Major Collector	Minor Collector	Local	Other Freeways & Express ways	Principal Arterial	Minor Arterial	Collector	Local	Interstate
56.23	44.32	39.32	34.32	29.66	29.66	44.35	44.35	19.67	19.67	19.67	19.67

Regional On-Road Mobile Source Emissions

The MOBILE6.2 model was applied for each state in the domain using EPA default inputs for a typical ozone season summer day. The resulting county-level 2007 emissions estimate were treated as area source and processed with EPS2x. A road type distribution (urban primary, rural primary, urban secondary, rural secondary) was used to spatially allocate the on-road sources grid cells in each of the modeling domains.

California on-road mobile source emission estimates were developed using the latest version of the EMFAC model. EMFAC2002 was applied for each county in California using default inputs for a typical summer day. The resulting county-level estimate were processed with EPS2x and spatially allocated using population.

Mexico on-road mobile source emissions were obtained on a state/municipality level and processed as area sources. The Mexico emission inventory data is for 1999. Due to a lack of growth factor information, no attempt was made to project these data to the 2007 base year.

Figure 2-2 displays the gridded on-road mobile source NO_x, VOC and CO emissions in the 4-km modeling domain for a typical ozone season weekday.

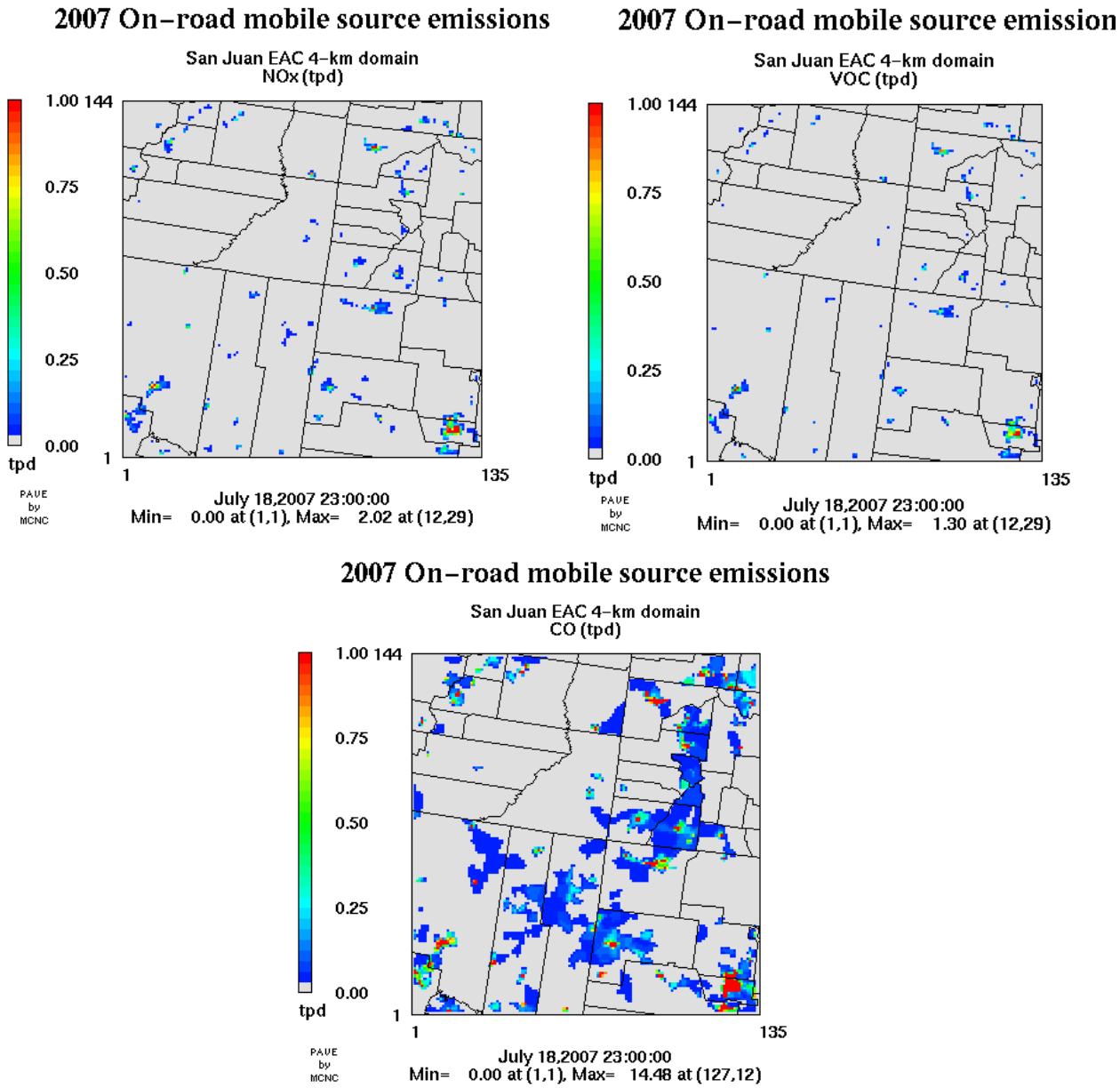

Figure 2-2. 2007 On-road mobile source emissions.

Area and Off-Road Sources

The CDPHE provided 2007 emission inventories for Colorado area and off-road sources. The data were provided as EPS2x AMS formatted files. These data were processed using EPS2x and spatially allocated to grid cells using gridding surrogates based on the EPA's gridding surrogate database.

For all areas outside Colorado, EPA's 2007 HDD inventories are the basis for the area emissions inventory. The 2007 HDD area emission inventory is (1) processed to extract the typical peak ozone season day data, (2) reformatted to AMS input file format and (3) processed with EPS2x.

The 2007 HDD area source emission inventory was obtained from the EPA's ftp site:

ftp://ftp.epa.gov/EmisInventory/HDD_Rule/2007BaseCase/Area_Nonroad

Regional Area	ar07ms2h.zip

Off-road mobile source emissions were developed using the NONROAD2002 model. The 2007 county-level off-road mobile source inventory is (1) processed to extract the typical peak ozone season day data, (2) reformatted to AMS input file format and (3) processed with EPS2x. The NONROAD model does not provide estimates for locomotives, airports or commercial marine. Emissions data for these source categories were obtained from the 2007 HDD inventory. These non-NONROAD source categories were processed using EPS2x in a manner similar to other area sources.

The 2007 HDD off-road mobile source emission inventory was obtained from the EPA's ftp site:

ftp://ftp.epa.gov/EmisInventory/HDD_Rule/2007ControlCase/Area_Nonroad

Regional Non-road	n7ms1hc.zip

Figure 2-3 displays the gridded area source NO_x, VOC and CO emissions in the 4-km modeling domain for a typical ozone season weekday. Gridded off-road mobile source NO_x, VOC and CO emissions in the 4-km domain are displayed in Figure 2-4 for a typical ozone season weekday.

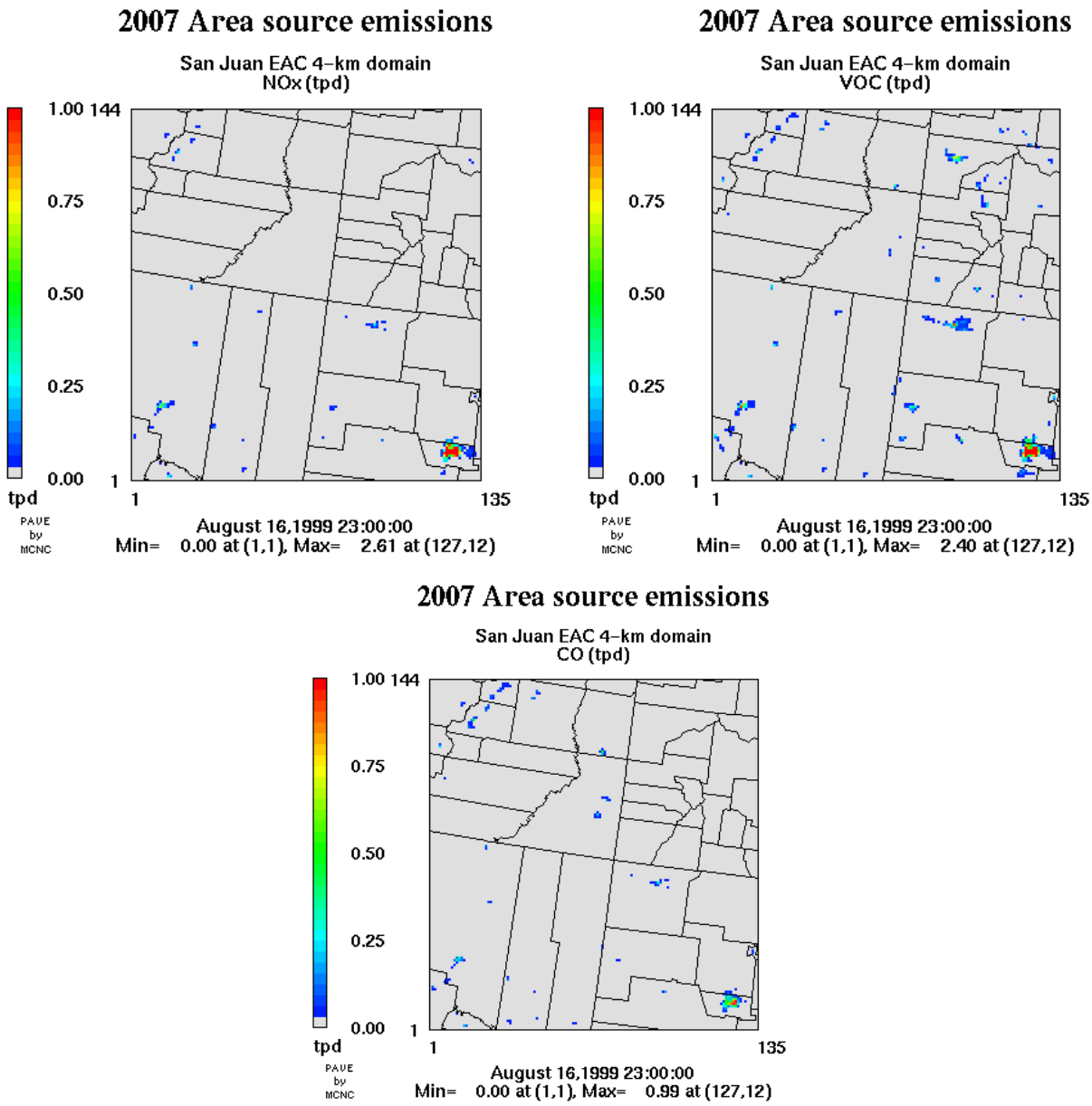

Figure 2-3. 2007 Area source emission.

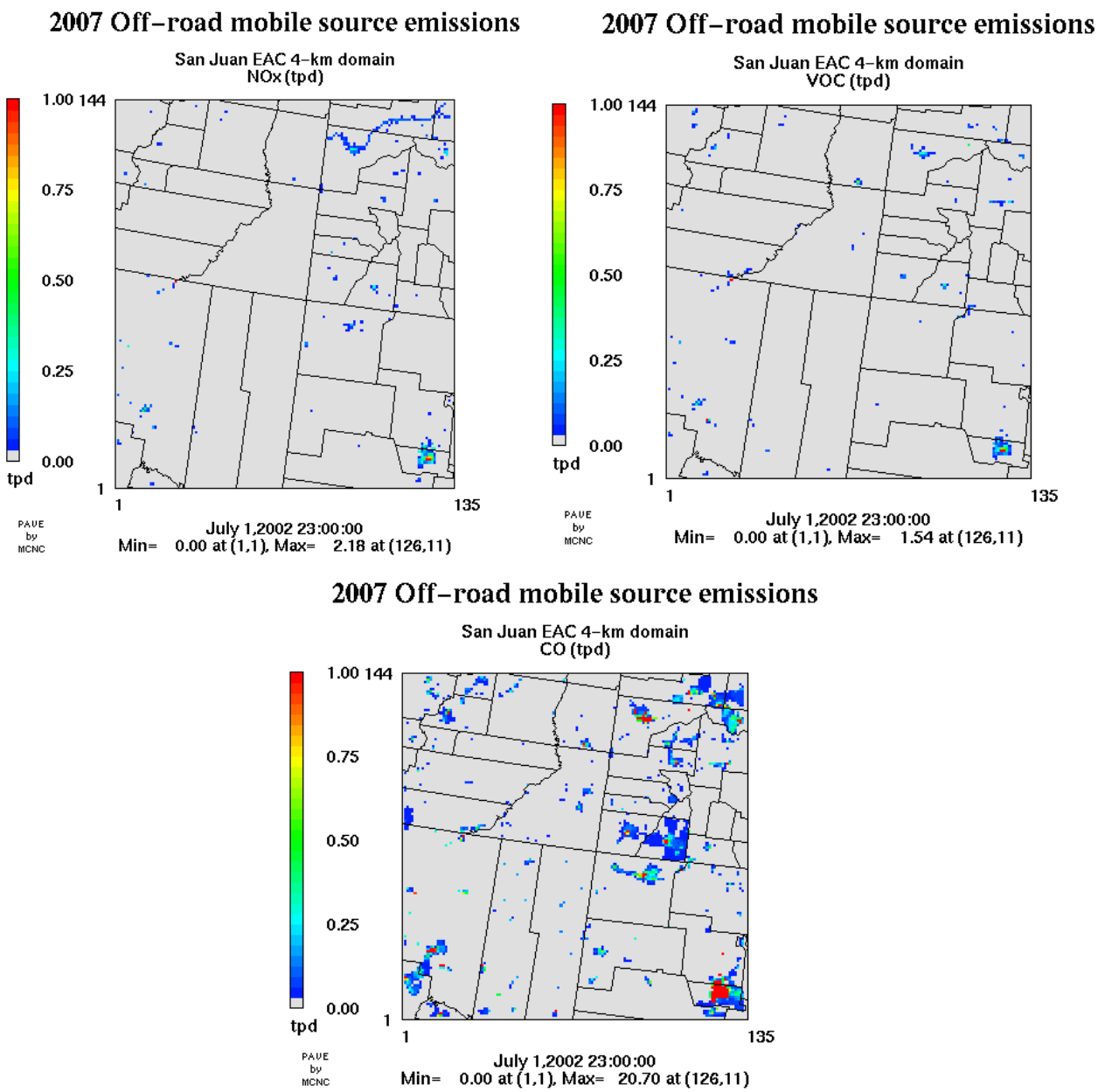

Figure 2-4. 2007 Off-road mobile source emissions.

Oil and Gas Emissions

Emissions data from oil and gas production wells within the modeling domain were obtained from the New Mexico Oil and Gas Association (NMOGA), as well as the CDPHE. The CDPHE provided oil and gas emissions within the statewide inventory data files used for the project. Emissions data for oil and gas production in New Mexico was provided separately by NMOGA for numerous small un-permitted operations in the northeast corner of New Mexico. The development of oil and gas emissions in Colorado for air quality modeling is described in ENVIRON, 2003c.

In the San Juan Basin of New Mexico there are nearly 18,000 oil and gas wells in operation. Each of these emits only a relatively small amount of emissions and thus is not subject to permitting based on EPA guidelines. However, in aggregate, the large number of wells contributes a substantial amount of NOx and VOC to the overall inventory.

Bruce Gantner of NMOGA provided NOx and VOC emissions estimates for 2002 for the three New Mexico counties within the San Juan Basin; San Juan, Sandoval, and Rio Arriba (Gantner, 2003a). Flash, loading, working and standing, venting and fugitive VOC emission estimates were provided. NOx emissions for various engine types were provided on a basin wide basis. Emission estimates for 2007 were provided by NMOGA (Gantner, 2003b). NMOGA estimated a total increase in VOC emissions of 662.8 tons per year for loading, flash, working and standing, and fugitive emissions. No increase in venting emissions was projected for 2007. The increase in NOx emissions was estimated to be 5331 tons per year. Tables 2-4 and 2-5 summarize the 2002 and 2007 VOC emissions from these sources, respectively. NOx emissions for 2002 for the entire basin totaled 28,234 tons per year, resulting in an estimated 33,565 tpy of NOx for 2007 for the entire basin. The 2007 oil and gas emission estimates were not specified by county or process. Therefore, the total increase in VOC and NOx were distributed equally across all counties and applicable processes in the San Juan Basin.

Table 2-4. Summary of oil and gas emissions for the San Juan Basin for 2002 (tpy).

County	Loading	Flash	Working & Standing	Venting	Fugitive	Total
San Juan	193	197	3,518	16,775	2,073	22,756
Rio Arriba	167	189	2,416	13,687	1,424	17,883
Sandoval	17	22	107	103	63	312
Total	377	408	6,041	30,565	3,560	40,951

Table 2-5. Summary of oil and gas emissions for the San Juan Basin for 2007 (tpy).

County	Loading	Flash	Working & Standing	Venting	Fugitive	Total
San Juan	248.25	252.25	3,573.25	16,775	2,128.25	22,977
Rio Arriba	222.25	244.25	2,471.25	13,687	1,479.25	18,104
Sandoval	72.25	77.25	162.25	103	118.25	533
Total	542.75	573.75	6206.75	30,565	3,725.75	41,614

The San Juan Basin includes several oil and gas formations that span all three counties. Speciation information by formation was provided with the emissions data. Although the EPS2 model includes default speciation profiles for oil and gas operations, it was desirable to develop specific profiles for these sources since the information required to do so was provided.

Speciation profiles were developed separately for each of the four formations based on the information provided by NMOGA, as described in ENVIRON, 2003b. Because the emissions data was provided by county, and not separately for each formation, an average speciation profile was used for all formations.

Estimated VOC emissions for natural gas escaping to the atmosphere (e.g., fugitive emissions at gas wells) did not include ethane because EPA has excluded ethane from the definition of VOC.

However, ethane does have some potential to form ozone and this is accounted for in the CB4 and SAPRC99 chemical mechanisms used for ozone modeling. Also, ethane is generally the second largest constituent of natural gas, after methane, and so ethane may be a significant component of the ozone formation potential of natural gas. Therefore, we calculated the emissions of ethane that were associated with the reported VOC emissions for natural gas so that this ethane could be accounted for in the ozone modeling. The ethane emissions were calculated using the ethane/VOC ratio determined by chemical analysis of natural gas produced in the northern New Mexico area.

Temporal allocation of the annual emissions for oil and gas operation was assumed constant for NOx emissions and VOC emissions except for working and standing emissions. For working and standing VOC emissions a specific monthly temporal profile was provided by NMOGA. Spatial allocation of emissions was based on the location of wells within each county for VOC emissions and on the location of wells across the entire basin for NOx emissions.

Table 2-6 displays the resulting CB4 speciated oil and gas VOC emissions for 2007, by county for the San Juan Basin based on the speciation profiles developed from the information supplied by NMOGA. Speciated 2007 ethane emissions are displayed in Table 2-7. The corresponding emissions for 2002 were presented in ENVIRON, 2003c.

Table 2-6. Speciated VOC emissions from oil and gas operations in the San Juan Basin for 2007 (tons/day).

County	VOC	PAR	TOL	XYL
Rio Arriba	58.0613	47.2851	0.0474	0.0163
Sandoval	1.4599	1.1889	0.0012	0.0004
San Juan	54.4803	44.3688	0.0445	0.0153
Total	114.0015	92.8428	0.0931	0.0320

Table 2-7. Speciated ethane emissions from oil and gas operations in the San Juan Basin for 2007 (tons/day).

County	Ethane	PAR
Rio Arriba	35.001	7.4482
Sandoval	0.9487	0.2019
San Juan	45.3054	9.6410
Total	81.2551	17.2911

Figure 2-5 displays the gridded NO_x and VOC emissions from oil and gas operations in the 4-km modeling domain for a typical ozone season weekday.

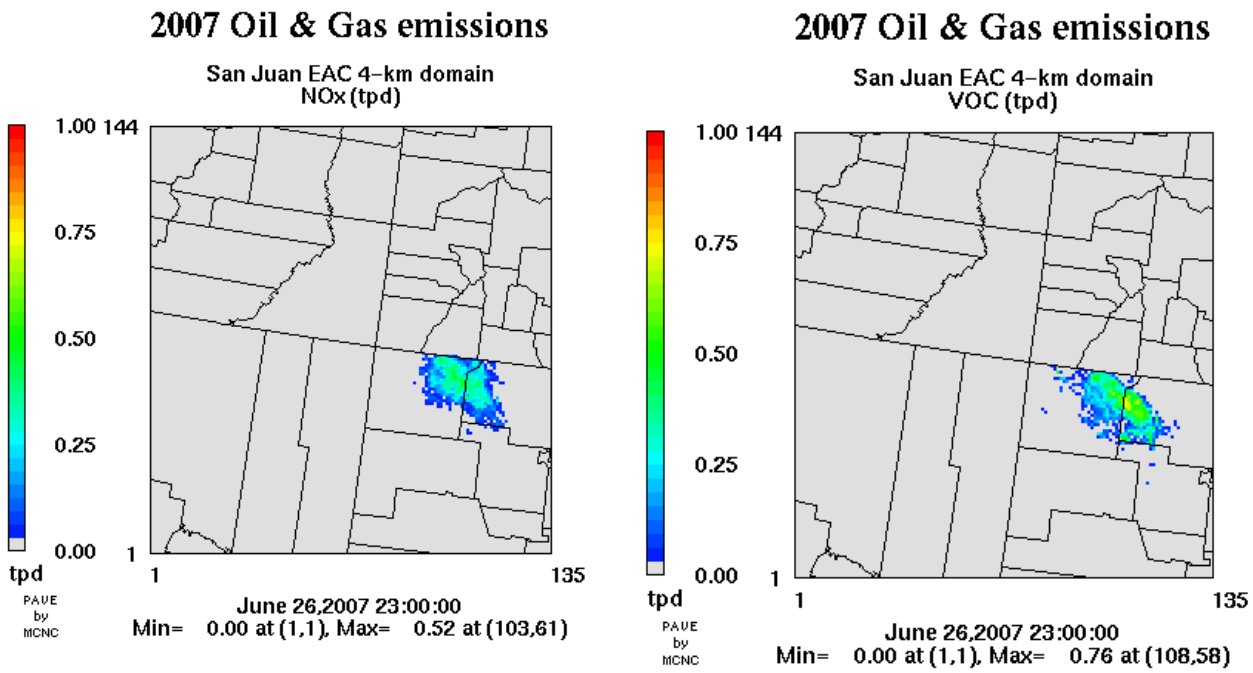

Figure 2-5. 2007 San Juan Basin oil and gas emissions.

Biogenic Sources

Biogenic emissions were prepared using version 3.1 of the GloBEIS model (Yarwood et al., 1999 a,b). A discussion of the GloBEIS model, including options used in development of the inventory for the Denver EAC modeling effort, was presented in ENVIRON, 2003a. GloBEIS was used to calculate day specific, gridded, speciated, hourly emissions of biogenic VOCs and NOx for each modeling grid (36 km, 12 km, 4 km). Biogenic emissions for 2007 are unchanged from the 2002 base year biogenic emissions.

The merged 2007 gridded NO_x, VOC and CO emissions in the 4-km modeling domain for a typical ozone season weekday are displayed in Figure 2-6.

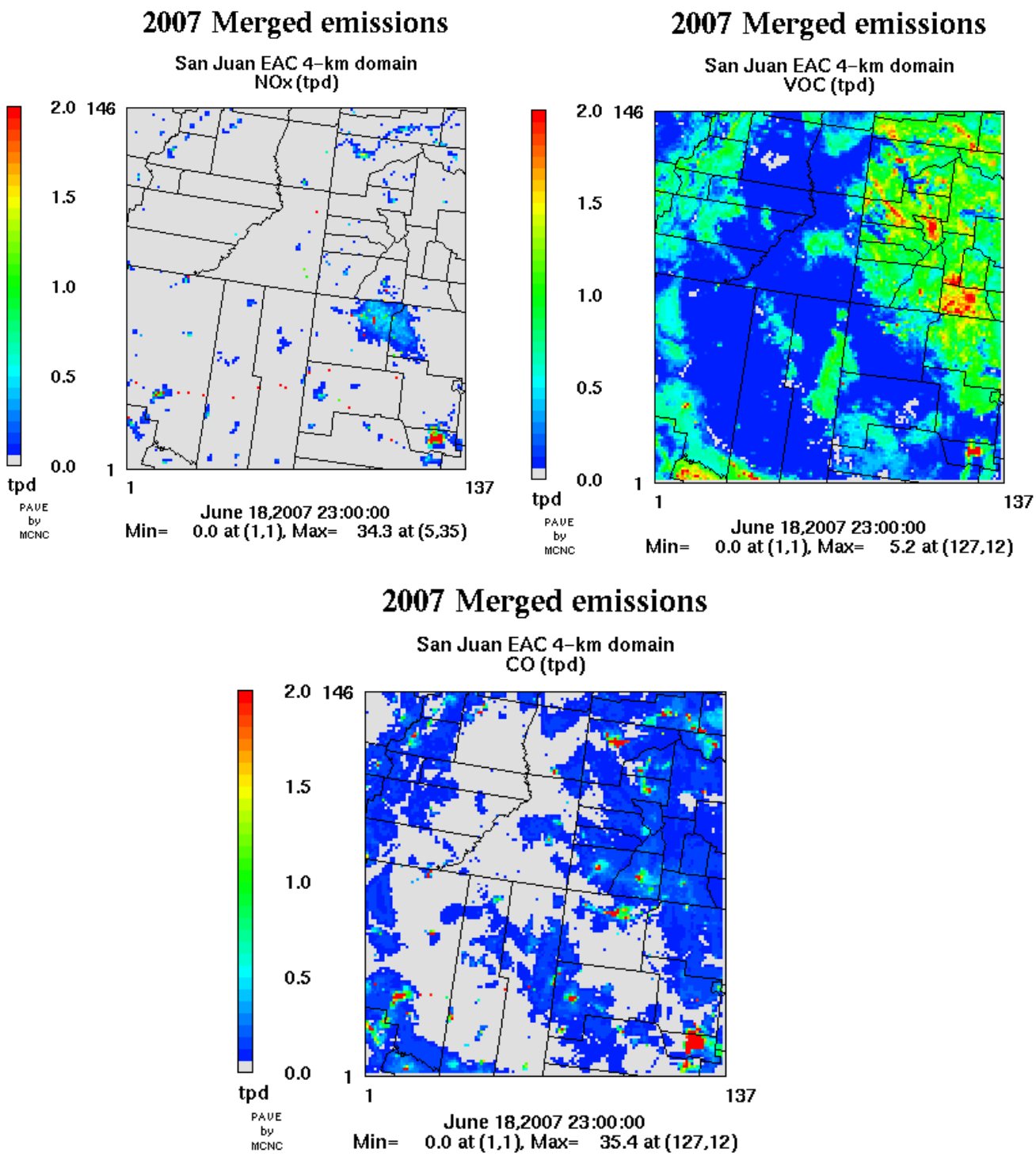

Figure 2-6. 2007 Merged emissions.

3. EMISSION SUMMARIES FOR 2007

All emission estimates in the following tables reflect gridded, model ready emissions. This means that for partial counties and/or states at the edge of a modeling domain, only the portion of emissions that is within the modeling domain is reported. Emissions summaries for NO_x, VOC and CO for a typical ozone season weekday, Saturday and Sunday are presented.

Tables 3-1 to 3-3 present emission summaries by major source type for all counties in New Mexico. Note that the San Juan Basin oil and gas emission estimates are not included in these summaries. The oil and gas emissions for the San Juan Basin were presented in Tables 2-6 and 2-7.

Tables 3-4 to 3-6 summarize the gridded point source emissions by EGU and non-EGU points by county for New Mexico.

Tables 3-7 through 3-9 present a comparison of the 2007 and 2002 gridded emissions by major source categories for all counties in New Mexico.

Tables 3-10 through 3-12 present emission summaries by major source category for all states other than New Mexico.

Table 3-1. NOx (tpd) - 2007 San Juan EAC Emissions Summary for New Mexico.

2007 San Juan EAC Emissions Summary for New Mexico

NOx (tpd)		Area			Off-Road			On-Road			Points			Total Anthropogenic			Biogenic			Total		
County		Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
35001	Bernalillo	40.08	36.86	35.25	14.46	13.24	11.69	26.94	20.20	20.20	0.00	0.00	0.00	81.48	70.30	67.14	4.96	4.96	5.30	86.44	75.26	72.44
35003	Catron	0.06	0.06	0.05	0.02	0.01	0.01	0.44	0.33	0.33	0.00	0.00	0.00	0.52	0.40	0.40	10.65	10.26	11.07	11.17	10.66	11.46
35005	Chaves	5.30	4.87	4.66	2.22	1.98	1.70	3.29	2.46	2.46	7.43	7.43	7.43	18.24	16.74	16.26	26.92	24.90	26.13	45.16	41.64	42.39
35006	Cibola	0.45	0.42	0.40	0.29	0.24	0.18	2.84	2.13	2.13	2.69	2.69	2.69	6.27	5.47	5.40	0.00	0.00	0.00	6.27	5.47	5.40
35007	Colfax	0.86	0.79	0.76	0.53	0.57	0.46	3.29	2.47	2.47	0.00	0.00	0.00	4.68	3.83	3.69	5.10	4.98	5.38	9.78	8.80	9.08
35009	Curry	2.54	2.34	2.24	2.65	2.59	2.51	2.07	1.55	1.55	0.00	0.00	0.00	7.25	6.47	6.29	2.32	2.13	2.21	9.58	8.60	8.50
35011	DeBaca	0.01	0.01	0.01	0.10	0.20	0.19	0.36	0.27	0.27	0.00	0.00	0.00	0.48	0.48	0.48	10.17	9.32	10.03	10.64	9.81	10.50
35013	Dona Ana	6.36	5.85	5.60	2.76	2.45	1.99	17.10	12.82	12.82	0.42	0.42	0.42	26.64	21.55	20.84	26.77	24.15	26.36	53.41	45.70	47.19
35015	Eddy	6.18	5.69	5.44	2.07	1.84	1.40	3.09	2.32	2.32	25.57	25.54	25.54	36.91	35.38	34.70	20.88	19.20	20.14	57.79	54.59	54.84
35017	Grant	3.17	2.91	2.78	0.36	0.31	0.25	3.72	2.79	2.79	1.53	1.53	1.53	8.77	7.54	7.35	22.50	20.02	21.88	31.27	27.57	29.22
35019	Guadalupe	0.03	0.03	0.03	0.11	0.10	0.08	3.47	2.60	2.60	0.06	0.06	0.06	3.67	2.80	2.77	12.58	11.69	12.82	16.25	14.48	15.58
35021	Harding	0.12	0.11	0.11	0.01	0.01	0.01	0.10	0.07	0.07	0.00	0.00	0.00	0.23	0.20	0.19	4.90	4.65	4.91	5.13	4.85	5.11
35023	Hidalgo	0.03	0.03	0.03	0.37	0.28	0.18	1.91	1.43	1.43	0.97	0.95	0.95	3.27	2.68	2.58	8.20	7.08	7.82	11.48	9.76	10.40
35025	Lea	7.86	7.23	6.92	0.60	0.60	0.56	3.15	2.36	2.36	85.23	85.19	85.19	96.85	95.39	95.03	20.15	18.29	18.85	117.00	113.68	113.88
35027	Lincoln	0.66	0.60	0.58	0.72	0.55	0.36	1.64	1.23	1.23	6.06	6.06	6.06	9.08	8.45	8.23	20.06	17.93	19.48	29.14	26.38	27.71
35028	Los Alamos	0.17	0.16	0.15	0.29	0.22	0.15	0.41	0.31	0.31	0.00	0.00	0.00	0.88	0.69	0.61	0.00	0.00	0.00	0.88	0.69	0.61
35029	Luna	0.46	0.43	0.41	0.17	0.16	0.14	4.16	3.12	3.12	5.86	5.86	5.86	10.65	9.57	9.53	18.39	16.23	17.82	29.04	25.80	27.35
35031	McKinley	1.13	1.04	1.00	0.70	0.58	0.42	9.33	7.00	7.00	26.42	26.09	26.09	37.59	34.72	34.52	15.82	17.06	18.32	53.41	51.78	52.83
35033	Mora	0.01	0.01	0.01	0.02	0.04	0.04	2.02	1.51	1.51	0.00	0.00	0.00	2.05	1.57	1.56	3.73	3.59	3.89	5.77	5.16	5.45
35035	Otero	1.11	1.03	0.98	3.03	2.98	2.90	3.40	2.55	2.55	0.05	0.00	0.00	7.59	6.56	6.43	42.88	38.50	42.19	50.48	45.06	48.63
35037	Quay	1.12	1.03	0.99	0.91	0.95	0.91	3.23	2.43	2.43	0.00	0.00	0.00	5.26	4.41	4.33	8.37	7.75	8.13	13.63	12.16	12.45
35039	Rio Arriba	0.27	0.25	0.24	1.04	1.29	1.07	4.68	3.51	3.51	4.67	4.67	4.67	10.65	9.71	9.48	23.32	23.29	24.89	33.97	33.00	34.37
35041	Roosevelt	1.75	1.61	1.54	1.67	1.72	1.69	1.22	0.92	0.92	3.28	3.28	3.28	7.92	7.52	7.42	9.10	8.32	8.65	17.02	15.85	16.07
35043	Sandoval	1.19	1.09	1.05	2.02	1.63	1.22	7.19	5.39	5.39	1.48	1.48	1.48	11.88	9.60	9.14	13.72	13.85	14.79	25.59	23.45	23.94
35045	San Juan	2.31	2.13	2.04	2.16	2.27	2.05	8.13	6.10	6.10	246.40	246.40	246.40	259.00	256.90	256.59	20.57	21.01	22.43	279.57	277.91	279.03
35047	San Miguel	0.71	0.65	0.63	0.50	0.64	0.53	4.48	3.36	3.36	0.00	0.00	0.00	5.69	4.65	4.52	15.98	15.25	16.38	21.66	19.90	20.90
35049	Santa Fe	5.25	4.83	4.62	2.48	2.06	1.57	11.99	8.99	8.99	0.12	0.12	0.12	19.84	16.00	15.30	9.49	9.27	10.13	29.34	25.27	25.43
35051	Sierra	0.23	0.22	0.21	0.26	0.93	0.93	2.69	2.02	2.02	0.00	0.00	0.00	3.18	3.17	3.15	16.79	15.61	17.18	19.98	18.78	20.33
35053	Socorro	0.21	0.20	0.19	0.39	0.34	0.26	4.60	3.45	3.45	0.00	0.00	0.00	5.20	3.98	3.90	20.67	20.64	22.38	25.87	24.62	26.27
35055	Taos	0.89	0.82	0.79	0.66	0.52	0.36	3.49	2.62	2.62	0.00	0.00	0.00	5.05	3.96	3.77	3.06	2.98	3.30	8.11	6.94	7.07
35057	Torrance	0.10	0.09	0.09	0.43	0.34	0.25	4.43	3.32	3.32	2.26	2.26	2.26	7.22	6.02	5.92	14.82	14.12	15.33	22.04	20.13	21.24
35059	Union	0.02	0.02	0.02	0.25	0.19	0.11	0.60	0.45	0.45	0.00	0.00	0.00	0.87	0.65	0.58	1.61	1.55	1.62	2.49	2.20	2.21
35061	Valencia	0.74	0.68	0.65	0.52	0.43	0.33	5.70	4.28	4.28	0.00	0.00	0.00	6.96	5.39	5.27	3.44	3.47	3.73	10.40	8.86	9.00
State Total		91.40	84.10	80.45	44.75	42.24	36.50	155.16	116.37	116.37	420.51	420.03	420.03	711.83	662.75	653.36	437.93	412.06	443.52	1149.76	1074.81	1096.88

Table 3-2. VOC (tpd) - 2007 San Juan EAC Emissions Summary for New Mexico.

2007 San Juan EAC Emissions Summary for New Mexico

VOC (tpd)		Area			Off-Road			On-Road			Points			Total Anthropogenic			Biogenic			Total		
County		Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
35001	Bernalillo	48.78	48.74	48.71	12.86	14.26	14.04	19.45	14.59	14.59	0.00	0.00	0.00	81.10	77.59	77.34	34.62	36.77	39.55	115.72	114.36	116.89
35003	Catron	0.21	0.21	0.21	0.02	0.01	0.01	0.28	0.21	0.21	0.00	0.00	0.00	0.51	0.44	0.44	857.08	860.06	971.75	857.60	860.50	972.19
35005	Chaves	10.60	10.60	10.59	1.51	1.64	1.60	2.38	1.79	1.79	1.44	1.42	1.42	15.93	15.44	15.40	290.98	265.60	278.67	306.91	281.05	294.07
35006	Cibola	2.27	2.27	2.27	0.10	0.10	0.10	1.70	1.27	1.27	0.11	0.11	0.11	4.18	3.75	3.74	0.00	0.00	0.00	4.18	3.75	3.74
35007	Colfax	1.81	1.81	1.81	0.54	1.56	1.54	1.75	1.32	1.32	0.00	0.00	0.00	4.11	4.68	4.67	434.72	430.40	472.61	438.83	435.09	477.28
35009	Curry	5.78	5.78	5.78	2.00	2.03	2.02	1.53	1.15	1.15	0.00	0.00	0.00	9.31	8.96	8.94	15.60	14.32	15.00	24.92	23.28	23.94
35011	DeBaca	0.39	0.39	0.39	0.19	0.85	0.85	0.23	0.18	0.18	0.00	0.00	0.00	0.82	1.42	1.42	55.88	51.76	57.19	56.71	53.18	58.61
35013	Dona Ana	13.01	13.00	13.00	2.27	3.43	3.37	12.09	9.07	9.07	0.11	0.11	0.11	27.48	25.62	25.55	92.37	81.96	89.88	119.86	107.58	115.43
35015	Eddy	8.01	8.01	8.00	1.09	2.42	2.36	2.20	1.65	1.65	4.63	4.62	4.62	15.93	16.70	16.64	80.05	73.63	77.37	95.99	90.33	94.01
35017	Grant	3.05	3.04	3.04	0.80	1.39	1.38	2.32	1.74	1.74	0.37	0.37	0.37	6.53	6.53	6.52	171.70	146.85	167.95	178.23	153.38	174.48
35019	Guadalupe	1.16	1.16	1.16	0.25	0.52	0.51	1.69	1.27	1.27	0.00	0.00	0.00	3.10	2.94	2.94	50.29	45.85	51.15	53.39	48.80	54.09
35021	Harding	0.21	0.21	0.21	0.01	0.04	0.04	0.07	0.05	0.05	0.00	0.00	0.00	0.29	0.30	0.30	63.52	62.83	66.85	63.81	63.13	67.15
35023	Hidalgo	1.50	1.50	1.50	0.32	0.50	0.49	0.96	0.72	0.72	0.03	0.02	0.02	2.81	2.74	2.73	316.78	270.72	307.07	319.60	273.46	309.79
35025	Lea	8.27	8.26	8.26	0.53	0.70	0.70	2.26	1.69	1.69	3.61	3.61	3.61	14.67	14.26	14.25	88.55	80.25	84.07	103.22	94.51	98.33
35027	Lincoln	1.24	1.23	1.23	0.75	1.20	1.18	1.07	0.80	0.80	1.12	1.12	1.12	4.18	4.36	4.33	256.18	213.03	235.52	260.35	217.39	239.85
35028	Los Alamos	1.51	1.51	1.51	0.15	0.14	0.13	0.35	0.26	0.26	0.00	0.00	0.00	2.01	1.91	1.90	0.00	0.00	0.00	2.01	1.91	1.90
35029	Luna	3.05	3.05	3.05	0.48	0.77	0.77	2.34	1.75	1.75	0.22	0.22	0.22	6.08	5.79	5.79	102.08	85.88	97.32	108.16	91.67	103.11
35031	McKinley	7.05	7.05	7.05	0.61	0.95	0.93	5.71	4.28	4.28	9.31	9.31	9.31	22.68	21.59	21.57	233.19	260.79	281.04	255.87	282.38	302.61
35033	Mora	0.28	0.28	0.28	0.06	0.22	0.22	1.03	0.77	0.77	0.00	0.00	0.00	1.37	1.28	1.28	145.87	144.28	158.45	147.24	145.56	159.73
35035	Otero	4.69	4.69	4.69	7.33	7.97	7.96	2.40	1.80	1.80	0.06	0.01	0.01	14.49	14.47	14.46	157.66	140.21	158.99	172.14	154.68	173.45
35037	Quay	2.78	2.78	2.78	0.49	1.16	1.16	1.64	1.23	1.23	0.00	0.00	0.00	4.91	5.17	5.16	36.17	34.17	36.05	41.08	39.34	41.21
35039	Rio Arriba	2.40	2.40	2.40	1.31	4.48	4.45	3.06	2.30	2.30	0.43	0.43	0.43	7.20	9.61	9.58	341.63	343.50	373.95	348.83	353.11	383.53
35041	Roosevelt	3.43	3.43	3.42	0.43	0.90	0.90	0.85	0.64	0.64	0.12	0.12	0.12	4.83	5.08	5.08	35.77	32.84	34.62	40.60	37.92	39.69
35043	Sandoval	4.41	4.41	4.41	1.14	1.38	1.32	4.71	3.53	3.53	0.03	0.03	0.03	10.29	9.35	9.29	125.99	136.75	145.99	136.28	146.10	155.28
35045	San Juan	12.40	12.39	12.39	1.82	3.71	3.68	5.61	4.21	4.21	2.99	2.99	2.99	22.81	23.30	23.26	241.54	259.75	279.75	264.35	283.05	303.01
35047	San Miguel	2.08	2.08	2.08	1.26	3.38	3.36	2.54	1.91	1.91	0.00	0.00	0.00	5.88	7.37	7.35	157.78	153.81	166.65	163.67	161.18	174.00
35049	Santa Fe	8.46	8.46	8.46	2.65	3.59	3.53	8.63	6.47	6.47	0.00	0.00	0.00	19.74	18.52	18.45	55.77	55.05	59.70	75.52	73.58	78.15
35051	Sierra	0.78	0.78	0.78	1.40	5.82	5.82	1.41	1.05	1.05	0.00	0.00	0.00	3.58	7.65	7.65	369.86	342.16	390.70	373.45	349.81	398.36
35053	Socorro	1.23	1.23	1.23	0.14	0.27	0.26	2.40	1.80	1.80	0.00	0.00	0.00	3.78	3.30	3.29	425.27	454.47	508.62	429.05	457.78	511.91
35055	Taos	2.33	2.33	2.33	0.40	0.58	0.56	2.26	1.70	1.70	0.03	0.00	0.00	5.02	4.61	4.58	230.57	231.19	253.94	235.59	235.80	258.53
35057	Torrance	0.88	0.88	0.88	0.29	0.47	0.46	2.47	1.85	1.85	0.17	0.17	0.17	3.81	3.38	3.36	86.39	83.74	92.15	90.20	87.12	95.51
35059	Union	0.81	0.81	0.81	0.16	0.25	0.24	0.39	0.29	0.29	0.00	0.00	0.00	1.36	1.35	1.34	90.01	91.11	95.22	91.37	92.46	96.57
35061	Valencia	2.42	2.42	2.42	0.25	0.24	0.22	3.71	2.78	2.78	0.01	0.01	0.01	6.39	5.45	5.43	38.19	41.19	44.98	44.58	46.64	50.42
State Total		167.30	167.19	167.14	43.61	66.95	66.13	101.49	76.12	76.12	24.79	24.67	24.67	337.18	334.92	334.06	5682.10	5524.94	6092.77	6019.28	5859.86	6426.83

Table 3-3. CO (tpd) - 2007 San Juan EAC Emissions Summary for New Mexico.

2007 San Juan EAC Emissions Summary for New Mexico

CO (tpd)		Area			Off-Road			On-Road			Points			Total Anthropogenic			Biogenic			Total		
County		Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
35001	Bernalillo	14.95	14.49	14.26	234.56	303.52	300.56	222.02	166.51	166.51	0.00	0.00	0.00	471.53	484.52	481.33	6.19	6.48	7.04	477.71	491.00	488.37
35003	Catron	0.17	0.17	0.17	0.37	0.30	0.29	3.05	2.29	2.29	0.00	0.00	0.00	3.60	2.76	2.75	120.48	120.47	135.77	124.07	123.22	138.52
35005	Chaves	2.03	1.97	1.94	14.81	19.89	19.38	25.05	18.79	18.79	1.79	1.79	1.79	43.68	42.43	41.90	43.48	39.03	41.44	87.16	81.46	83.34
35006	Cibola	0.64	0.64	0.63	2.47	3.30	3.20	21.39	16.04	16.04	0.88	0.88	0.88	25.38	20.86	20.75	0.00	0.00	0.00	25.38	20.86	20.75
35007	Colfax	0.53	0.52	0.51	4.76	9.29	9.12	23.54	17.66	17.66	0.00	0.00	0.00	28.83	27.46	27.29	62.41	61.60	67.57	91.25	89.07	94.85
35009	Curry	1.55	1.52	1.51	10.63	13.38	13.24	16.00	12.00	12.00	0.00	0.00	0.00	28.18	26.91	26.74	2.64	2.41	2.54	30.82	29.32	29.29
35011	DeBaca	0.12	0.12	0.12	1.19	3.62	3.60	2.51	1.88	1.88	0.00	0.00	0.00	3.82	5.62	5.60	8.63	7.83	8.78	12.45	13.45	14.38
35013	Dona Ana	2.99	2.92	2.89	39.52	51.12	50.32	132.45	99.34	99.34	0.16	0.16	0.16	175.13	153.54	152.70	13.18	11.39	12.85	188.31	164.93	165.55
35015	Eddy	2.06	1.99	1.95	13.78	21.82	21.07	23.22	17.42	17.42	13.04	13.03	13.03	52.10	54.25	53.47	14.35	13.19	13.82	66.44	67.45	67.29
35017	Grant	1.19	1.15	1.14	7.19	10.99	10.87	26.48	19.86	19.86	0.51	0.51	0.51	35.37	32.51	32.37	18.92	15.96	18.47	54.29	48.47	50.84
35019	Guadalupe	0.23	0.23	0.23	1.44	2.45	2.41	24.37	18.28	18.28	0.09	0.09	0.09	26.13	21.05	21.00	9.14	8.26	9.28	35.27	29.31	30.29
35021	Harding	0.08	0.08	0.08	0.18	0.24	0.24	0.66	0.49	0.49	0.00	0.00	0.00	0.92	0.82	0.82	11.33	11.11	11.94	12.25	11.93	12.76
35023	Hidalgo	0.23	0.23	0.23	2.98	3.57	3.40	13.38	10.04	10.04	0.34	0.34	0.34	16.94	14.17	14.01	24.81	21.04	24.09	41.75	35.21	38.09
35025	Lea	2.53	2.45	2.40	12.75	20.58	20.50	23.75	17.81	17.81	15.17	15.16	15.16	54.20	56.00	55.87	14.18	12.63	13.42	68.38	68.63	69.29
35027	Lincoln	0.38	0.38	0.37	7.65	9.89	9.58	11.38	8.53	8.53	0.85	0.85	0.85	20.26	19.65	19.33	41.09	34.17	38.23	61.35	53.81	57.56
35028	Los Alamos	0.50	0.50	0.50	3.07	3.33	3.21	3.58	2.68	2.68	0.00	0.00	0.00	7.14	6.52	6.39	0.00	0.00	0.00	7.14	6.52	6.39
35029	Luna	0.46	0.45	0.45	5.35	7.55	7.51	30.02	22.51	22.51	0.81	0.81	0.81	36.63	31.32	31.28	13.18	10.96	12.52	49.81	42.28	43.81
35031	McKinley	0.77	0.76	0.75	8.98	14.44	14.17	66.57	49.92	49.92	9.12	9.12	9.12	85.43	74.24	73.97	37.61	41.09	44.99	123.04	115.33	118.96
35033	Mora	0.22	0.22	0.22	0.57	1.03	1.02	14.14	10.60	10.60	0.00	0.00	0.00	14.92	11.85	11.85	27.39	26.93	29.65	42.32	38.78	41.49
35035	Otero	1.49	1.48	1.48	20.62	25.26	25.12	25.33	19.00	19.00	6.82	0.00	0.00	54.27	45.74	45.60	23.92	20.90	24.26	78.19	66.64	69.86
35037	Quay	0.52	0.51	0.50	4.02	6.91	6.84	23.09	17.32	17.32	0.00	0.00	0.00	27.63	24.73	24.65	6.31	5.95	6.33	33.94	30.68	30.98
35039	Rio Arriba	0.34	0.34	0.33	8.20	19.63	19.28	32.70	24.52	24.52	2.06	2.06	2.06	43.30	46.55	46.20	50.63	50.64	56.03	93.93	97.19	102.23
35041	Roosevelt	0.73	0.71	0.70	5.65	8.71	8.63	8.97	6.73	6.73	0.40	0.40	0.40	15.75	16.55	16.47	6.01	5.48	5.82	21.76	22.02	22.28
35043	Sandoval	0.44	0.43	0.42	20.03	23.05	22.24	54.23	40.67	40.67	0.46	0.46	0.46	75.15	64.60	63.79	21.74	23.13	25.01	96.89	87.73	88.79
35045	San Juan	2.25	2.22	2.21	26.09	41.83	41.45	59.38	44.53	44.53	13.66	13.66	13.66	101.37	102.24	101.84	35.73	37.45	41.04	137.10	139.68	142.89
35047	San Miguel	0.94	0.93	0.93	7.35	15.54	15.36	32.39	24.30	24.30	0.00	0.00	0.00	40.69	40.77	40.59	29.19	28.32	30.97	69.87	69.09	71.55
35049	Santa Fe	2.58	2.52	2.49	42.40	55.20	54.35	93.67	70.25	70.25	0.06	0.06	0.06	138.72	128.03	127.16	9.20	9.04	9.98	147.92	137.07	137.14
35051	Sierra	0.28	0.28	0.28	6.47	22.51	22.50	19.32	14.49	14.49	0.00	0.00	0.00	26.07	37.27	37.26	39.49	36.45	41.47	65.56	73.72	78.73
35053	Socorro	0.50	0.50	0.50	2.20	2.73	2.60	32.79	24.59	24.59	0.00	0.00	0.00	35.50	27.83	27.69	64.74	67.85	75.97	100.24	95.67	103.66
35055	Taos	1.32	1.31	1.30	5.75	7.87	7.61	24.14	18.11	18.11	0.38	0.00	0.00	31.60	27.28	27.02	33.75	33.55	37.41	65.35	60.83	64.42
35057	Torrance	0.26	0.26	0.26	2.62	3.51	3.35	30.85	23.14	23.14	0.32	0.32	0.32	34.05	27.23	27.07	15.62	15.04	16.82	49.67	42.27	43.89
35059	Union	0.14	0.14	0.14	1.51	1.92	1.80	4.16	3.12	3.12	0.00	0.00	0.00	5.80	5.17	5.06	13.24	13.18	13.86	19.04	18.35	18.92
35061	Valencia	0.23	0.22	0.22	5.57	6.36	6.19	41.68	31.26	31.26	0.00	0.00	0.00	47.48	37.85	37.67	7.15	7.55	8.33	54.63	45.40	46.00
State Total		43.66	42.63	42.11	530.71	741.33	731.01	1166.27	874.68	874.68	66.90	59.68	59.68	1807.55	1718.31	1707.48	825.74	799.07	885.69	2633.29	2517.38	2593.17

Table 3-4. NOx (tpd) - 2007 San Juan EAC Emissions Summary for New Mexico.

NOx (tpd)		EGU Points			Non-EGU Points			Total		
County		Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
35001	Bernalillo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35003	Catron	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35005	Chaves	0.00	0.00	0.00	7.43	7.43	7.43	7.43	7.43	7.43
35006	Cibola	0.00	0.00	0.00	2.69	2.69	2.69	2.69	2.69	2.69
35007	Colfax	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35009	Curry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35011	DeBaca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35013	Dona Ana	0.00	0.00	0.00	0.42	0.42	0.42	0.42	0.42	0.42
35015	Eddy	0.00	0.00	0.00	25.57	25.54	25.54	25.57	25.54	25.54
35017	Grant	0.00	0.00	0.00	1.53	1.53	1.53	1.53	1.53	1.53
35019	Guadalupe	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06
35021	Harding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35023	Hidalgo	0.20	0.20	0.20	0.77	0.75	0.75	0.97	0.95	0.95
35025	Lea	3.80	3.80	3.80	81.43	81.38	81.38	85.23	85.19	85.19
35027	Lincoln	0.00	0.00	0.00	6.06	6.06	6.06	6.06	6.06	6.06
35028	Los Alamos	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35029	Luna	0.00	0.00	0.00	5.86	5.86	5.86	5.86	5.86	5.86
35031	McKinley	9.35	9.35	9.35	17.07	16.74	16.74	26.42	26.09	26.09
35033	Mora	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35035	Otero	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.00	0.00
35037	Quay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35039	Rio Arriba	0.00	0.00	0.00	4.67	4.67	4.67	4.67	4.67	4.67
35041	Roosevelt	0.00	0.00	0.00	3.28	3.28	3.28	3.28	3.28	3.28
35043	Sandoval	0.00	0.00	0.00	1.48	1.48	1.48	1.48	1.48	1.48
35045	San Juan	222.38	222.38	222.38	24.02	24.02	24.02	246.40	246.40	246.40
35047	San Miguel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35049	Santa Fe	0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12
35051	Sierra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35053	Socorro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35055	Taos	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35057	Torrance	0.00	0.00	0.00	2.26	2.26	2.26	2.26	2.26	2.26
35059	Union	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35061	Valencia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
State Total		**235.74**	**235.74**	**235.74**	**184.77**	**184.29**	**184.29**	**420.51**	**420.03**	**420.03**

Table 3-5. VOC (tpd) - 2007 San Juan EAC Emissions Summary for New Mexico.

VOC (tpd)		EGU Points			Non-EGU Points`			Total		
County		Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
35001	Bernalillo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35003	Catron	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35005	Chaves	0.00	0.00	0.00	1.44	1.42	1.42	1.44	1.42	1.42
35006	Cibola	0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11
35007	Colfax	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35009	Curry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35011	DeBaca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35013	Dona Ana	0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11
35015	Eddy	0.00	0.00	0.00	4.63	4.62	4.62	4.63	4.62	4.62
35017	Grant	0.00	0.00	0.00	0.37	0.37	0.37	0.37	0.37	0.37
35019	Guadalupe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35021	Harding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35023	Hidalgo	0.00	0.00	0.00	0.02	0.01	0.01	0.03	0.02	0.02
35025	Lea	0.10	0.10	0.10	3.52	3.51	3.51	3.61	3.61	3.61
35027	Lincoln	0.00	0.00	0.00	1.12	1.12	1.12	1.12	1.12	1.12
35028	Los Alamos	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35029	Luna	0.00	0.00	0.00	0.22	0.22	0.22	0.22	0.22	0.22
35031	McKinley	0.06	0.06	0.06	9.25	9.25	9.25	9.31	9.31	9.31
35033	Mora	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35035	Otero	0.00	0.00	0.00	0.06	0.01	0.01	0.06	0.01	0.01
35037	Quay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35039	Rio Arriba	0.00	0.00	0.00	0.43	0.43	0.43	0.43	0.43	0.43
35041	Roosevelt	0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12
35043	Sandoval	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03
35045	San Juan	0.99	0.99	0.99	2.00	2.00	2.00	2.99	2.99	2.99
35047	San Miguel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35049	Santa Fe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35051	Sierra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35053	Socorro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35055	Taos	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00
35057	Torrance	0.00	0.00	0.00	0.17	0.17	0.17	0.17	0.17	0.17
35059	Union	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35061	Valencia	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
State Total		**1.16**	**1.16**	**1.16**	**23.63**	**23.51**	**23.51**	**24.79**	**24.67**	**24.67**

Table 3-6. CO (tpd) - 2007 San Juan EAC Emissions Summary for New Mexico.

CO (tpd)		EGU Points			Non-EGU Points			Total		
County		Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
35001	Bernalillo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35003	Catron	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35005	Chaves	0.00	0.00	0.00	1.79	1.79	1.79	1.79	1.79	1.79
35006	Cibola	0.00	0.00	0.00	0.88	0.88	0.88	0.88	0.88	0.88
35007	Colfax	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35009	Curry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35011	DeBaca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35013	Dona Ana	0.01	0.01	0.01	0.15	0.15	0.15	0.16	0.16	0.16
35015	Eddy	0.00	0.00	0.00	13.04	13.03	13.03	13.04	13.03	13.03
35017	Grant	0.00	0.00	0.00	0.51	0.51	0.51	0.51	0.51	0.51
35019	Guadalupe	0.00	0.00	0.00	0.09	0.09	0.09	0.09	0.09	0.09
35021	Harding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35023	Hidalgo	0.06	0.06	0.06	0.29	0.28	0.28	0.34	0.34	0.34
35025	Lea	0.56	0.56	0.56	14.61	14.60	14.60	15.17	15.16	15.16
35027	Lincoln	0.00	0.00	0.00	0.85	0.85	0.85	0.85	0.85	0.85
35028	Los Alamos	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35029	Luna	0.00	0.00	0.00	0.81	0.81	0.81	0.81	0.81	0.81
35031	McKinley	0.53	0.53	0.53	8.59	8.59	8.59	9.12	9.12	9.12
35033	Mora	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35035	Otero	0.00	0.00	0.00	6.82	0.00	0.00	6.82	0.00	0.00
35037	Quay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35039	Rio Arriba	0.00	0.00	0.00	2.06	2.06	2.06	2.06	2.06	2.06
35041	Roosevelt	0.00	0.00	0.00	0.40	0.40	0.40	0.40	0.40	0.40
35043	Sandoval	0.00	0.00	0.00	0.46	0.46	0.46	0.46	0.46	0.46
35045	San Juan	8.72	8.72	8.72	4.94	4.94	4.94	13.66	13.66	13.66
35047	San Miguel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35049	Santa Fe	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06
35051	Sierra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35053	Socorro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35055	Taos	0.00	0.00	0.00	0.38	0.00	0.00	0.38	0.00	0.00
35057	Torrance	0.00	0.00	0.00	0.32	0.32	0.32	0.32	0.32	0.32
35059	Union	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35061	Valencia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
State Total		**9.87**	**9.87**	**9.87**	**57.03**	**49.81**	**49.81**	**66.90**	**59.68**	**59.68**

Table 3-7. NOx (tpd) - Change from 2002 to 2007.

NOx (tpd)		Area			Off-Road			On-Road			Points		
County		Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
35001	Bernalillo	4.89	4.47	4.26	-0.39	1.28	1.96	-10.87	-8.15	-8.15	-2.71	-2.71	-2.71
35003	Catron	0.00	0.00	0.00	0.00	0.00	0.00	-0.05	-0.04	-0.04	0.00	0.00	0.00
35005	Chaves	0.60	0.55	0.52	-0.31	-0.16	-0.04	-0.05	-0.04	-0.04	-1.64	-1.64	-1.64
35006	Cibola	0.08	0.07	0.06	-4.01	-3.97	-3.95	-2.76	-2.07	-2.07	0.31	0.31	0.31
35007	Colfax	0.09	0.08	0.07	-1.00	-0.94	-0.90	-1.66	-1.25	-1.25	-0.40	-0.40	-0.40
35009	Curry	0.32	0.30	0.28	-7.45	-7.41	-7.39	0.00	0.00	0.00	0.00	0.00	0.00
35011	DeBaca	-0.01	-0.01	-0.01	-5.25	-5.26	-5.26	-0.04	-0.03	-0.03	0.00	0.00	0.00
35013	Dona Ana	0.46	0.40	0.36	-4.16	-3.87	-3.68	-6.29	-4.72	-4.72	-7.22	-7.22	-7.22
35015	Eddy	0.64	0.58	0.55	-0.86	-0.62	-0.45	-0.09	-0.07	-0.07	10.79	10.76	10.76
35017	Grant	0.33	0.30	0.29	-2.09	-2.05	-2.03	-0.16	-0.12	-0.12	0.93	0.93	0.93
35019	Guadalupe	-0.02	-0.02	-0.02	-8.50	-8.49	-8.49	-1.82	-1.37	-1.37	0.06	0.06	0.06
35021	Harding	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	-0.02	-0.02	0.00	0.00	0.00
35023	Hidalgo	0.00	0.00	0.00	-1.74	-1.70	-1.65	-0.98	-0.74	-0.74	-0.87	-0.89	-0.89
35025	Lea	0.89	0.82	0.78	-0.11	-0.05	-0.03	-0.09	-0.07	-0.07	-0.80	-0.85	-0.85
35027	Lincoln	0.00	0.00	-0.01	-2.34	-2.26	-2.19	-0.19	-0.14	-0.14	4.98	4.98	4.98
35028	Los Alamos	0.05	0.05	0.04	-0.06	-0.03	0.00	0.04	0.03	0.03	-0.10	-0.10	-0.10
35029	Luna	0.01	0.01	0.00	-4.16	-4.15	-4.15	-2.04	-1.53	-1.53	-3.76	-3.76	-3.76
35031	McKinley	0.04	0.02	0.02	-8.36	-8.27	-8.20	-4.22	-3.16	-3.16	3.81	3.48	3.48
35033	Mora	-0.01	-0.01	-0.01	-0.47	-0.47	-0.47	-0.04	-0.03	-0.03	0.00	0.00	0.00
35035	Otero	0.05	0.04	0.03	1.00	1.05	1.09	-0.14	-0.10	-0.10	-0.15	-0.20	-0.20
35037	Quay	0.12	0.11	0.11	-2.39	-2.36	-2.35	-1.68	-1.26	-1.26	-0.22	-0.22	-0.22
35039	Rio Arriba	-0.08	-0.08	-0.09	-0.31	-0.05	0.04	-0.47	-0.35	-0.35	-3.74	-3.74	-3.74
35041	Roosevelt	0.18	0.17	0.16	-6.69	-6.67	-6.67	-0.07	-0.05	-0.05	2.31	2.31	2.31
35043	Sandoval	-0.06	-0.07	-0.08	-0.88	-0.68	-0.50	-2.99	-2.25	-2.25	1.18	1.18	1.18
35045	San Juan	0.13	0.11	0.09	-1.18	-0.99	-0.90	-0.48	-0.36	-0.36	-1.75	-1.75	-1.75
35047	San Miguel	0.06	0.05	0.05	-0.98	-0.84	-0.80	-2.19	-1.64	-1.64	0.00	0.00	0.00
35049	Santa Fe	0.57	0.52	0.49	-1.11	-0.76	-0.55	-4.53	-3.40	-3.40	-0.53	-0.53	-0.53
35051	Sierra	-0.02	-0.02	-0.02	-0.25	-0.06	-0.05	-1.39	-1.04	-1.04	0.00	0.00	0.00
35053	Socorro	-0.01	-0.01	-0.01	-3.77	-3.74	-3.71	-2.34	-1.76	-1.76	0.00	0.00	0.00
35055	Taos	0.09	0.08	0.07	-0.27	-0.20	-0.13	-0.40	-0.30	-0.30	0.00	0.00	0.00
35057	Torrance	-0.03	-0.03	-0.03	-5.40	-5.36	-5.32	-0.12	-0.09	-0.09	2.26	2.26	2.26
35059	Union	-0.01	-0.01	-0.01	-2.30	-2.28	-2.26	-0.07	-0.05	-0.05	0.00	0.00	0.00
35061	Valencia	-0.10	-0.10	-0.11	-10.83	-10.79	-10.75	-2.33	-1.74	-1.74	-0.86	-0.86	-0.86
State Total		**9.26**	**8.31**	**7.84**	**-86.63**	**-82.15**	**-79.77**	**-50.53**	**-37.89**	**-37.89**	**1.89**	**1.40**	**1.40**

Table 3-8. VOC (tpd) - Change from 2002 to 2007.

VOC (tpd)		Area			Off-Road			On-Road			Points		
County		Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
35001	Bernalillo	-7.72	-7.73	-7.73	-1.52	3.56	3.78	-12.71	-9.53	-9.53	-0.22	-0.22	-0.22
35003	Catron	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.03	0.02	0.02	0.00	0.00	0.00
35005	Chaves	-0.55	-0.55	-0.55	0.69	0.83	0.86	0.43	0.32	0.32	1.20	1.18	1.18
35006	Cibola	-0.36	-0.36	-0.36	-0.21	-0.16	-0.16	-1.77	-1.33	-1.33	0.08	0.08	0.08
35007	Colfax	-0.19	-0.19	-0.19	-0.28	-1.01	-1.00	-1.16	-0.87	-0.87	0.00	0.00	0.00
35009	Curry	-0.04	-0.04	-0.04	1.07	1.16	1.16	0.29	0.22	0.22	0.00	0.00	0.00
35011	DeBaca	-0.02	-0.02	-0.02	-0.35	-0.93	-0.93	0.03	0.02	0.02	0.00	0.00	0.00
35013	Dona Ana	-1.46	-1.46	-1.46	-0.68	-0.62	-0.56	-6.92	-5.19	-5.19	-0.61	-0.61	-0.61
35015	Eddy	-2.41	-2.41	-2.41	-0.38	-1.18	-1.12	0.38	0.28	0.28	0.90	0.90	0.90
35017	Grant	-0.24	-0.24	-0.24	-0.08	-0.09	-0.09	0.59	0.45	0.45	0.37	0.37	0.37
35019	Guadalupe	-0.15	-0.15	-0.15	-0.34	-0.41	-0.41	-1.16	-0.87	-0.87	0.00	0.00	0.00
35021	Harding	0.02	0.02	0.02	-0.01	-0.03	-0.03	-0.01	-0.01	-0.01	0.00	0.00	0.00
35023	Hidalgo	-0.13	-0.13	-0.13	-0.02	-0.01	0.00	-0.64	-0.48	-0.48	0.03	0.02	0.02
35025	Lea	-0.36	-0.36	-0.36	0.04	0.18	0.18	0.39	0.29	0.29	2.22	2.22	2.22
35027	Lincoln	-0.23	-0.23	-0.23	-0.13	-0.12	-0.10	0.10	0.07	0.07	0.90	0.90	0.90
35028	Los Alamos	-0.12	-0.13	-0.13	0.00	0.04	0.04	0.06	0.04	0.04	0.00	0.00	0.00
35029	Luna	-0.10	-0.10	-0.10	-0.14	-0.11	-0.11	-1.50	-1.13	-1.13	0.22	0.22	0.22
35031	McKinley	-2.25	-2.25	-2.25	-0.35	-0.23	-0.21	-3.24	-2.43	-2.43	7.45	7.45	7.45
35033	Mora	-0.02	-0.02	-0.02	-0.10	-0.27	-0.27	0.52	0.39	0.39	0.00	0.00	0.00
35035	Otero	-0.70	-0.70	-0.70	6.25	6.20	6.21	0.40	0.30	0.30	-0.04	-0.09	-0.09
35037	Quay	-0.01	-0.01	-0.01	-0.27	-0.68	-0.68	-1.14	-0.85	-0.85	0.00	0.00	0.00
35039	Rio Arriba	-0.57	-0.57	-0.57	-0.75	-3.23	-3.21	0.38	0.28	0.28	-7.02	-7.02	-7.02
35041	Roosevelt	0.06	0.06	0.06	-0.49	-0.79	-0.79	0.13	0.10	0.10	0.12	0.12	0.12
35043	Sandoval	-1.39	-1.39	-1.39	-0.21	0.03	0.08	-2.73	-2.05	-2.05	0.01	0.01	0.01
35045	San Juan	-2.14	-2.14	-2.14	-0.25	-1.48	-1.46	0.86	0.64	0.64	-11.68	-11.68	-11.68
35047	San Miguel	-0.17	-0.17	-0.17	-0.46	-1.74	-1.74	-1.60	-1.20	-1.20	0.00	0.00	0.00
35049	Santa Fe	-1.08	-1.08	-1.08	-0.51	0.17	0.23	-5.01	-3.76	-3.76	-0.11	-0.11	-0.11
35051	Sierra	-0.03	-0.03	-0.03	-0.91	-4.52	-4.52	-0.95	-0.71	-0.71	0.00	0.00	0.00
35053	Socorro	-0.13	-0.13	-0.13	-0.17	-0.32	-0.32	-1.61	-1.21	-1.21	0.00	0.00	0.00
35055	Taos	-0.28	-0.28	-0.28	-0.10	-0.06	-0.05	0.23	0.17	0.17	0.03	0.00	0.00
35057	Torrance	-0.18	-0.18	-0.18	-0.22	-0.20	-0.19	0.96	0.72	0.72	0.17	0.17	0.17
35059	Union	-0.07	-0.07	-0.07	-0.10	-0.11	-0.11	0.04	0.03	0.03	0.00	0.00	0.00
35061	Valencia	-0.73	-0.73	-0.73	-0.48	-0.41	-0.40	-1.94	-1.46	-1.46	0.01	0.01	0.01
State Total		**-23.78**	**-23.79**	**-23.80**	**-1.46**	**-6.51**	**-5.91**	**-38.29**	**-28.72**	**-28.72**	**-5.97**	**-6.08**	**-6.08**

Table 3-9. CO (tpd) - Change from 2002 to 2007.

CO (tpd)		Area			Off-Road			On-Road			Points		
County		Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
35001	Bernalillo	-8.11	-8.17	-8.20	21.85	149.47	150.76	-130.13	-97.61	-97.61	-2.52	-2.52	-2.52
35003	Catron	0.09	0.09	0.09	0.17	0.16	0.16	0.43	0.32	0.32	0.00	0.00	0.00
35005	Chaves	0.08	0.07	0.07	2.92	9.07	9.27	6.09	4.56	4.56	0.50	0.50	0.50
35006	Cibola	-0.30	-0.30	-0.31	-0.35	1.07	1.10	-21.87	-16.40	-16.40	0.42	0.42	0.42
35007	Colfax	0.16	0.16	0.16	-0.08	0.27	0.31	-14.14	-10.61	-10.61	-0.10	-0.10	-0.10
35009	Curry	0.61	0.61	0.61	0.74	4.64	4.68	4.13	3.10	3.10	0.00	0.00	0.00
35011	DeBaca	0.06	0.06	0.06	-0.40	-0.68	-0.69	0.35	0.26	0.26	0.00	0.00	0.00
35013	Dona Ana	-4.98	-4.99	-4.99	7.55	21.94	22.23	-68.93	-51.68	-51.68	-2.68	-2.68	-2.68
35015	Eddy	-0.56	-0.57	-0.58	2.05	6.66	6.89	5.33	3.99	3.99	5.64	5.63	5.63
35017	Grant	0.24	0.24	0.24	1.45	3.83	3.86	9.27	6.95	6.95	0.51	0.51	0.51
35019	Guadalupe	0.09	0.09	0.09	-0.74	-0.66	-0.65	-14.65	-10.99	-10.99	0.09	0.09	0.09
35021	Harding	0.04	0.04	0.04	0.04	0.00	0.00	-0.11	-0.08	-0.08	0.00	0.00	0.00
35023	Hidalgo	0.14	0.14	0.14	1.03	1.23	1.27	-8.02	-6.01	-6.01	0.34	0.34	0.34
35025	Lea	0.46	0.45	0.44	4.31	12.57	12.59	5.50	4.12	4.12	1.11	1.10	1.10
35027	Lincoln	-1.48	-1.48	-1.48	1.04	2.09	2.19	1.42	1.06	1.06	0.74	0.74	0.74
35028	Los Alamos	0.08	0.08	0.08	1.05	1.86	1.89	1.01	0.76	0.76	0.00	0.00	0.00
35029	Luna	-0.10	-0.10	-0.10	1.08	2.75	2.77	-18.01	-13.50	-13.50	0.81	0.81	0.81
35031	McKinley	-1.48	-1.48	-1.48	0.56	6.29	6.39	-39.30	-29.47	-29.47	-1.24	-1.24	-1.24
35033	Mora	0.02	0.02	0.02	-1.04	-2.13	-2.13	9.19	6.89	6.89	0.00	0.00	0.00
35035	Otero	-0.50	-0.51	-0.51	11.79	14.15	14.21	5.57	4.17	4.17	6.02	-0.80	-0.80
35037	Quay	0.26	0.26	0.26	-0.40	0.05	0.05	-13.93	-10.45	-10.45	0.00	0.00	0.00
35039	Rio Arriba	-1.93	-1.93	-1.93	-0.51	-1.34	-1.23	5.08	3.81	3.81	-9.82	-9.82	-9.82
35041	Roosevelt	0.33	0.33	0.33	-1.06	0.53	0.52	1.85	1.39	1.39	-0.14	-0.14	-0.14
35043	Sandoval	-5.13	-5.13	-5.13	2.57	8.30	8.66	-30.99	-23.26	-23.26	0.07	0.07	0.07
35045	San Juan	-2.85	-2.85	-2.86	-4.04	6.70	6.84	11.91	8.93	8.93	-24.11	-24.11	-24.11
35047	San Miguel	0.42	0.42	0.42	-0.05	0.26	0.32	-19.29	-14.46	-14.46	0.00	0.00	0.00
35049	Santa Fe	-0.68	-0.69	-0.69	5.37	24.17	24.46	-50.94	-38.22	-38.22	0.06	0.06	0.06
35051	Sierra	-0.09	-0.09	-0.09	-0.19	-2.60	-2.59	-11.58	-8.69	-8.69	0.00	0.00	0.00
35053	Socorro	0.08	0.08	0.08	-0.13	0.24	0.28	-19.72	-14.78	-14.78	0.00	0.00	0.00
35055	Taos	-0.76	-0.76	-0.76	0.00	1.26	1.34	3.12	2.34	2.34	0.38	0.00	0.00
35057	Torrance	-0.15	-0.15	-0.15	-0.37	0.27	0.30	15.75	11.81	11.81	0.32	0.32	0.32
35059	Union	0.04	0.04	0.04	-0.08	0.22	0.25	0.58	0.44	0.44	0.00	0.00	0.00
35061	Valencia	-3.13	-3.13	-3.13	0.09	2.05	2.10	-23.12	-17.34	-17.34	0.00	0.00	0.00
State Total		**-29.04**	**-29.17**	**-29.24**	**56.21**	**274.71**	**278.40**	**-398.15**	**-298.67**	**-298.67**	**-23.61**	**-30.84**	**-30.84**

Table 3-10. NOx (tpd) - 2007 Emission Summary for San Juan EAC.

NOx (tpd)	Area			Off-Road			On-Road			Points			Total Anthropogenic		
State	**Wkd**	**Sat**	**Sun**	**Wkd**	**Sat**	**Sun**	**Wkd**	**Sat**	**Sun**	**Wkd**	**Sat**	**Sun**	**Wkd**	**Sat**	**Sun**
Arizona	195.15	179.47	171.63	116.73	110.95	93.12	313.18	234.89	234.89	567.34	567.33	567.33	1192.41	1092.64	1066.97
Arkansas	37.23	34.29	32.82	25.98	26.69	23.40	68.06	51.05	51.05	44.53	44.40	44.40	175.79	156.43	151.66
California	243.75	230.01	223.14	921.83	933.16	867.14	1253.81	940.42	940.42	358.13	333.70	333.70	2777.52	2437.29	2364.41
Colorado	9.21	8.56	8.24	229.03	229.03	229.03	246.22	217.41	177.71	337.40	334.84	333.39	821.86	789.84	748.38
Idaho	37.16	34.22	32.75	54.34	54.27	50.75	72.45	54.34	54.34	8.94	8.83	8.83	172.88	151.65	146.66
Iowa	42.93	39.72	38.12	209.08	205.78	197.00	113.41	85.06	85.06	158.46	158.46	158.46	523.88	489.03	478.64
Kansas	242.31	222.86	213.14	223.87	215.72	202.60	176.55	132.41	132.41	605.31	558.06	558.06	1248.03	1129.06	1106.21
Louisiana	81.06	74.50	71.22	12.30	12.36	10.40	38.03	28.53	28.53	141.85	141.30	141.30	273.25	256.68	251.44
Minnesota	34.15	31.65	30.40	207.45	197.09	180.47	213.14	159.85	159.85	256.13	253.87	253.87	710.87	642.47	624.60
Missouri	22.92	21.29	20.48	117.06	122.71	113.71	170.53	127.90	127.90	63.89	61.83	61.83	374.40	333.73	323.91
Montana	0.08	0.08	0.07	0.61	0.61	0.58	0.26	0.20	0.20	2.33	2.33	2.33	3.28	3.21	3.17
Nebraska	40.81	37.66	36.09	172.57	168.75	161.63	117.59	88.19	88.19	226.49	225.36	225.36	557.45	519.97	511.28
Nevada	19.76	18.22	17.45	71.38	60.37	45.07	121.90	91.43	91.43	146.60	146.39	146.39	359.63	316.41	300.34
New Mexico	91.41	84.11	80.45	39.51	37.00	31.26	155.17	116.38	116.38	412.69	412.21	412.21	698.78	649.70	640.30
Oklahoma	102.97	94.85	90.79	121.55	125.15	115.71	271.19	203.39	203.39	662.18	657.42	657.42	1157.89	1080.82	1067.32
Oregon	2.32	2.15	2.06	13.81	15.62	13.76	26.15	19.61	19.61	4.50	4.50	4.50	46.78	41.88	39.94
South Dakota	19.55	18.06	17.32	138.32	137.62	133.94	54.68	41.01	41.01	66.83	66.83	66.83	279.38	263.52	259.10
Texas	77.30	72.56	70.20	1073.23	1053.76	990.57	1264.51	948.38	948.38	2865.54	2847.64	2847.64	5280.58	4922.35	4856.79
Utah	64.63	59.50	56.93	116.93	97.10	70.74	134.18	100.64	100.64	300.93	296.37	296.37	616.67	553.60	524.68
Wisconsin	0.77	0.72	0.70	3.51	3.31	2.98	8.58	6.44	6.44	1.82	1.73	1.73	14.68	12.20	11.85
Wyoming	250.88	230.53	220.35	33.05	31.77	27.86	53.92	40.44	40.44	402.55	393.18	393.18	740.39	695.92	681.83
Total	**1616.33**	**1495.02**	**1434.37**	**3902.13**	**3838.84**	**3561.71**	**4873.54**	**3687.96**	**3648.27**	**7634.42**	**7516.58**	**7515.13**	**18026.42**	**16538.41**	**16159.49**

Table 3-11. VOC (tpd) - 2007 Emission Summary for San Juan EAC.

VOC (tpd)	Area			Off-Road			On-Road			Points			Total Anthropogenic		
State	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
Arizona	364.71	364.52	397.74	117.24	197.33	194.79	212.43	159.33	159.33	43.70	43.62	43.62	738.09	764.80	795.47
Arkansas	109.95	109.92	109.90	23.84	55.84	55.33	41.62	31.21	31.21	12.05	8.18	8.18	187.47	205.15	204.63
California	1178.83	1178.29	1178.03	570.30	1051.80	1041.79	646.26	484.73	484.73	143.97	84.71	84.71	2539.36	2799.54	2789.26
Colorado	203.50	203.49	203.48	111.66	111.66	111.66	210.01	190.86	155.14	277.61	258.82	254.14	802.78	764.82	724.42
Idaho	119.00	118.97	118.95	29.57	55.17	54.63	46.89	35.17	35.17	0.31	0.31	0.31	195.78	209.61	209.05
Iowa	247.39	247.33	247.29	59.22	93.89	92.51	64.31	48.23	48.23	17.35	17.35	17.35	388.27	406.80	405.39
Kansas	376.06	375.79	375.66	71.05	104.43	102.42	108.10	81.07	81.07	48.60	30.94	30.94	603.80	592.23	590.09
Louisiana	49.44	49.35	49.31	13.73	30.49	30.22	24.15	18.11	18.11	30.00	27.56	27.56	117.32	125.52	125.19
Minnesota	428.01	427.96	427.94	78.91	113.15	110.58	143.97	107.98	107.98	70.50	51.28	51.28	721.40	700.37	697.78
Missouri	216.94	216.88	216.85	71.92	166.21	164.84	108.68	81.51	81.51	26.61	14.17	14.17	424.15	478.78	477.37
Montana	0.41	0.41	0.41	0.23	0.45	0.45	0.14	0.11	0.11	0.20	0.20	0.20	0.98	1.16	1.16
Nebraska	261.36	261.29	261.26	51.64	76.45	75.32	69.96	52.47	52.47	30.29	27.12	27.12	413.25	417.33	416.17
Nevada	124.82	124.78	124.76	48.51	79.03	76.92	95.16	71.37	71.37	10.51	10.12	10.12	278.99	285.29	283.17
New Mexico	167.31	167.20	167.15	34.71	58.05	57.24	101.51	76.13	76.13	24.79	24.67	24.67	328.30	326.05	325.18
Oklahoma	292.53	292.42	292.36	81.03	168.34	166.92	186.50	139.87	139.87	99.11	85.78	85.78	659.17	686.40	684.93
Oregon	28.07	28.06	28.05	14.84	41.80	41.56	15.29	11.47	11.47	5.92	5.92	5.92	64.12	87.24	86.99
South Dakota	120.49	120.48	120.48	32.94	53.23	52.62	31.72	23.79	23.79	6.25	2.27	2.27	191.41	199.77	199.16
Texas	1613.80	1613.66	1613.59	392.50	672.60	663.40	794.63	595.97	595.97	557.06	526.50	526.50	3358.00	3408.73	3399.46
Utah	209.59	209.53	209.50	63.87	116.97	113.30	92.84	69.63	69.63	43.54	37.81	37.81	409.84	433.94	430.24
Wisconsin	8.93	8.93	8.93	2.10	3.41	3.36	4.86	3.64	3.64	0.19	0.03	0.03	16.07	16.02	15.97
Wyoming	53.94	53.68	53.55	19.43	38.83	38.27	31.26	23.44	23.44	39.16	38.46	38.46	143.79	154.42	153.73
Total	**6175.08**	**6172.94**	**6171.87**	**1889.24**	**3289.12**	**3248.11**	**3030.27**	**2306.08**	**2270.37**	**1487.71**	**1295.82**	**1291.14**	**12582.31**	**13063.97**	**13014.80**

Table 3-12. CO (tpd) - 2007 Emission Summary for San Juan EAC.

CO (tpd)	Area			Off-Road			On-Road			Points			Total Anthropogenic		
State	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun	Wkd	Sat	Sun
Arizona	135.64	133.37	132.24	2103.07	2796.51	2763.44	2210.23	1657.66	1657.66	94.37	94.34	94.34	4543.30	4681.89	4647.68
Arkansas	31.04	30.61	30.40	241.99	421.97	414.63	448.11	336.08	336.08	12.19	12.16	12.16	733.32	800.82	793.27
California	203.09	199.92	198.33	10756.35	15886.05	15743.22	6382.51	4786.62	4786.62	337.48	319.46	319.46	17679.42	21192.05	21047.64
Colorado	2.77	2.63	2.57	2067.55	2067.55	2067.55	1987.25	1830.55	1573.34	106.37	103.16	100.18	4163.93	4003.88	3743.63
Idaho	51.08	50.61	50.38	460.66	658.43	651.17	493.31	369.98	369.98	0.95	0.95	0.95	1005.99	1079.97	1072.48
Iowa	82.51	82.01	81.75	972.10	1326.64	1308.33	761.14	570.85	570.85	14.40	14.40	14.40	1830.15	1993.90	1975.33
Kansas	140.54	137.64	136.18	1189.06	1612.81	1586.49	1220.29	915.22	915.22	255.42	239.47	239.47	2805.32	2905.14	2877.36
Louisiana	24.49	23.47	22.97	150.37	251.58	247.91	257.94	193.45	193.45	70.80	70.24	70.24	503.60	538.75	534.57
Minnesota	104.68	104.21	103.98	1555.91	2157.60	2121.64	1687.81	1265.85	1265.85	260.90	258.99	258.99	3609.29	3786.66	3750.47
Missouri	128.81	128.52	128.37	949.12	1512.74	1493.88	1193.49	895.12	895.12	16.45	15.74	15.74	2287.87	2552.11	2533.11
Montana	0.28	0.28	0.28	2.82	3.86	3.80	1.74	1.31	1.31	3.33	3.33	3.33	8.17	8.77	8.71
Nebraska	103.95	103.43	103.17	802.33	1113.45	1098.66	801.51	601.13	601.13	50.78	50.44	50.44	1758.56	1868.46	1853.40
Nevada	41.11	40.80	40.65	827.73	1051.96	1026.13	943.25	707.43	707.43	55.28	55.21	55.21	1867.37	1855.40	1829.41
New Mexico	43.66	42.63	42.11	480.67	691.36	681.04	1166.36	874.77	874.77	66.90	59.68	59.68	1757.59	1668.43	1657.59
Oklahoma	77.45	76.25	75.65	1096.64	1710.16	1691.18	1863.68	1397.77	1397.77	684.24	676.94	676.94	3722.00	3861.12	3841.54
Oregon	7.34	7.32	7.31	155.41	279.64	276.61	182.64	136.98	136.98	24.76	24.76	24.76	370.15	448.69	445.65
South Dakota	44.26	44.04	43.94	413.96	579.31	571.48	371.06	278.29	278.29	5.60	5.60	5.60	834.88	907.25	899.31
Texas	75.77	74.72	74.19	6674.68	9568.96	9446.15	8362.26	6271.71	6271.71	1461.03	1446.19	1446.19	16573.74	17361.57	17238.24
Utah	69.41	68.58	68.17	813.54	1160.47	1114.86	1015.35	761.52	761.52	371.01	329.35	329.35	2269.31	2319.92	2273.90
Wisconsin	2.21	2.17	2.15	34.85	48.64	47.93	59.84	44.88	44.88	0.35	0.33	0.33	97.25	96.02	95.30
Wyoming	53.51	50.64	49.20	237.59	361.70	355.28	387.39	290.54	290.54	236.89	229.39	229.39	915.38	932.27	924.41
Total	**1423.60**	**1403.85**	**1393.98**	**31986.39**	**45261.39**	**44711.37**	**31797.16**	**24187.71**	**23930.50**	**4129.47**	**4010.12**	**4007.14**	**69336.61**	**74863.07**	**74043.00**

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