



WRAP Work Activities: 2008-09

September 30, 2008

August 2008 Project Status

Project Title	Contract Amount	Expenditures to Date
EMISSIONS		
EDMS Hosting / Operation (ARS)	323,818	198,137
Mobile EI Update	67,000	
MOBILE SOURCES		
Coordinate Non-Road Demonstration Projects - (Emissions Advantage)	269,540	260,533
FIRE		
Update EIs	45,413	
TECHNICAL ANALYSIS FORUM		
TSS Design/Development/SIP support (ARS/ENVIRON)	576,283	443,246
TSS Operations plus Fire Tracking (CIRA/Air Sciences)	449,026	250,678
VIEWS		
Modeling Support for 308 and 309 SIPs	384,630	144,620
AIR MANAGERS COMMITTEE		
State Caucus Staff Support (WESTAR)	742,434	734,344
Tech Support for SIP Review and Approval	100,000	
309 2004 Milestone Report (Perrin Quarles)	44,825	28,332
COMMUNICATIONS		
Web Site Maintenance (B. Bissey) 2007	59,300	22,115
Subtotal for Projects Underway	3,212,269	2,082,005

WRAP Financial Status for Projects – August 2008

	Balance
Travel Reimbursements	61,939
Conference Calls	10,861
Meeting Expenses	18,779
Direct Salaries and Benefits	318,030
Overhead & Other Expenses	205,906
	Subtotal
	615,515
Contractor Assistance	1,130,264
	1,745,779

Overview of current WRAP grant – FFY08

- EPA grant for FFY08 is \$872,000 for regional haze work by WRAP
- Of this amount, \$752,000 will be awarded to WGA and \$120,000 will be awarded to NTEC. The main workplan was submitted to EPA in June 2008. The grant was to be awarded by today, September 30th. The NTEC workplan is a separate document that will be submitted to EPA by NTEC.
- WGA WRAP staff is allocated \$150k for staff, overhead and travel
- Remainder of \$602,000 is for projects

Remaining Projects for 2008 left from 2007-08 workplan (Table 2)

AIR MANAGERS COMMITTEE	
Technical Support during SIP Review and Approval Process	128,413
TECHNICAL ANALYSIS FORUM	
TSS and Fire Tracking – 2008	70,575
COMMUNICATIONS COMMITTEE	
Web Site Maintenance	25,000
Subtotal for Pending Projects	223,988

Projects for 2008-09

	EPA Grants Already Awarded		FFY08 Grant For 2009	Total Funds through 2009
	Project Remainder as of March 31, 2008	Funds from Remaining Projects (Table 2)		
STATIONARY SOURCES				
No contractor projects requiring funding				
FIRE				
Update to Fire EIs for modeling and analysis to support haze plan implementation (\$28,413 from AMC "Technical Support during SIP Review and Approval Process" line in Table 2)		28,413	17,000	45,413
EMISSIONS				
2008-09 EDMS Hosting / Operation (ARS)	82,490		75,000	157,490
Mobile EI update to new base years to support haze plan review			67,000	67,000
DUST				
No contractor projects requiring funding				

Projects for 2008-09, continued

	EPA Grants Already Awarded		FFY08 Grant For 2009	Total Funds through 2009
	Project Remainder as of March 31, 2008	Funds from Remaining Projects (Table 2)		
MOBILE SOURCES				
Non-Road Demonstration Projects – (Emissions Advantage)	13,414			13,414
TECHNICAL ANALYSIS				
TAF1 - Technical Support System management/training/tools (ARS/ENVIRON) - (<i>\$50,000 from TAF “TSS and Fire Tracking – 2008“ line in Table 2</i>)	8,037	50,000	75,000	133,037
TAF2 – Technical Support System (TSS) plus Fire Emissions Tracking System (FETS) operations (CIRA/Air Sciences) - (<i>\$20,575 from TAF “TSS and Fire Tracking – 2008“ line in Table 2</i>)	156,832	20,575	55,000	232,407
TAF 3 - RMC Modeling Support for 308 and 309 SIPs (UCR/ENVIRON/CEP)	106,152		152,000	258,152
Visibility Information Exchange Web System (VIEWS) - ongoing national regional haze monitoring and data analysis project (CIRA) – (<i>5 RPOs contribute \$30,000 each, administered by WRAP</i>)			150,000	150,000

Projects for 2008-09, continued

	EPA Grants Already Awarded		FFY08 Grant For 2009	Total Funds through 2009
	Project Remainder as of March 31, 2008	Funds from Remaining Projects (Table 2)		
AIR MANAGERS COMMITTEE				
AMC1 - Technical Support during SIP Review and Approval Process - - (\$100,000 from AMC "Technical Support during SIP Review and Approval Process" line in Table 2)		100,000		100,000
AMC2 - 309 Milestone Reports (Perrin Quarles) CY07 & 08	8,493		8,000	16,493
AMC3 - State Caucus Staff Support (WESTAR – Don Arkell through 2008)	58,562			58,562
COMMUNICATIONS COMMITTEE				
Web Site Maintenance (B. Bissey)	9,185	25,000	3,000	37,185
Subtotal for 2008 and 2009 Projects – WGA	443,165	223,988	602,000	1,269,153

Fire Forum 08-09

- Forum is meeting quarterly to check progress on Fire Emissions Tracking System (FETS)
- Data are being collected as noted on status report
- Data handshakes for other agencies in WRAP region being developed
- Level 1 data showing fire activity, emissions, and satellite detects updated daily for regional coordination between smoke management programs
- Work in 2009 to develop Level 2 data – filling in gaps with emissions estimated from satellite detects where no smoke management program is active
- Call in June to establish FETS services for VISTAS region states' smoke management program – to be funded through letter agreement between VISTAS-WGA and executed through WRAP contract

Emissions Forum 08-09

- Forum is meeting bi-monthly to manage Emissions Data Management System (EDMS)
- 2002 and 2018 data for regional haze are complete, 2005 data being gathered as noted on status report
- Work in 2009 to transfer database to TSS to improve operations and hold down costs
- Will align EDMS to not overlap with “re-engineered” NEI for 2008 data
- Funding in place through 2009

2005 Emissions Inventory data to date

- A preliminary 2005 emissions inventory is now available on the EDMS under Inventory 11. The following data are currently available:
- Alaska (Area, Non-road Mobile, On-road Mobile and Point)
- Alaska Tribes (Area, Non-road Mobile, and On-road Mobile)
- Colorado (Point)
- Fort Peck (Area, Non-road Mobile, and Point)
- Idaho (Area, Non-road Mobile, On-road Mobile and Point)
- Maricopa County, AZ (Non-road Mobile, On-road Mobile and Point)
- Nevada (On-road Mobile)
- Utah (Area and On-road Mobile)
- Washington (Point)

Contacts for 2005 EDMS Data

Name	Email	Phone	City	State	Email Sent	Data Received	Comments
Alice Edwards	alice_edwards@dec.state.ak.us	907-465-5109	Juneau	AK		Y	point data in XML format received; area, on- and non-road mobile received for state and several tribes
Bob Downing	bdowning@mail.maricopa.gov	602-506-6883	Phoenix	AZ		Y	Maricopa Cty only
Darlene Celaya	DC4@azdeq.gov	602-771-7662		AZ	1/21/2008		
Tina Suarez-Murias		916-323-1495		CA	7/1/2008		
Adjith Kaduwela		916-327-3955		CA			
Vijay Bhargava		916-322-7148		CA			
Dave Thayer		303-692-3187	Denver	CO		Y	rec'd point data 2/20/08
Gary Lee Reinbold	gary.reinbold@deq.idaho.gov	208 373-0253	Boise	ID		Y	
Angelique Luedeker	Angelique.Luedeker@nau.edu			ITEP	1/21/2008	Y	rec'd data for Ft. Peck
Angelique Luedeker	Angelique.Luedeker@nau.edu			ITEP		Y	rec'd data revised 2002 data for Salish-Kootenai
James Carlin	jcarlin@mt.gov	406-444-6711	Helena	MT	1/21/2008		
Dan Walsh	dwalsh@mt.gov	406-444-9786	Helena	MT	4/15/2008		
Debbie Linkenbach	dlinkenback@mt.gov	406-444-2742	Helena	MT	4/15/2008		
Lew Dendy	ldendy@state.nd.us	701-328-5188	Bismark	ND	4/15/2008		rec'd email 4/15/08 - need to contact Ryan Mills for info on 2005 data
Rhonda Payne	Rhonda.Payne@state.nm.us	505-955-8075	Santa Fe	NM	1/21/2008		talked to 4/15/08 - working on point data in XML format - 5/15/08 plans updated to abandon XML schema for 2005 data, NIF Format should be available soon
Sufi Mustafa	sufi.mustafa@state.nm.us	505-476-4318	Santa Fe	NM			talked to 4/15/08 - working on point data in XML format - 5/15/08 plans updated to abandon XML schema for 2005 data, NIF Format should be available soon
Brenda Harpring	bharprin@ndep.nv.gov	775-687-9498	Carson City	NV	1/21/2008	Y	rec'd point and mobile data 5/15/08
Christopher Swab	SWAB.Christopher@deq.state.or.us	503-229-5661		OR	7/23/2008		data will be sent 7/29/08
Brian Gustafson	brian.gustafson@state.sd.us	605-773-5047	Pierre	SD	1/21/2008		
Rick Boddicker	rick.boddicker@state.sd.us	605-773-6706	Pierre	SD	1/21/2008		
Carol Nielsen	carnielsen@utah.gov	801 536 4073	Salt Lake City	UT	1/21/2008	Y	rec'd on-road area data 2/7/08
Peter Verschoor	pverschoor@utah.gov	801-536-4186	Salt Lake City	UT		Y	rec'd on-road mobile data 2/5/08
Scott Hanks	shanks@utah.gov	801-536-4066	Salt Lake City	UT		Y	rec'd on-road point data 3/30/08
Sally Otterson	sott461@ecy.wa.gov	360-407-6806	Olympia	WA	1/21/2008	Y	rec'd point data 2/20/08
Kristi Tarantola	ktaran@state.wy.us	307-777-6126	Cheyenne	WY	1/21/2008		

Technical Analysis Forum 08-09

- Forum is meeting monthly to manage:
 - VIEWS
 - TSS
 - RMC
 - FETS progress
- Project activities as noted on status report
- Extramural funding from OAQPS Assessment Division to import state/tribal/federal ozone monitoring data and develop tools for visualization and analysis
- VIEWS and TSS systems stable – will have “behind the scenes to update database and tools
- Integration of FETS and VIEWS/TSS to be able to analyze smoke impacts on monitoring data
- Extramural funding by NASA to put satellite air quality and land use/type data in VIEWS/TSS – 3-year project – see flyer

Regional Modeling Center 08-09

- Managed by TAF
- Scope of Work from 2001
- Resources in current contract to finish regional haze analysis once BART is determined – FRP18
- Will include QA changes and sensitivity test for effect of 2018 offshore marine shipping emissions on regional haze
- RMC not ready to take on substantial new work in current form
- Major investment to develop next generation of RMC is needed – minimum of \$1m/year
- RMC work is critical to implementing regional haze and analyses needed for 2012 update, in addition to many other studies leveraged by states/feds/tribes from RMC data

Air Managers Committee and web support 08-09

- 3 projects
- Placeholder project to assist with technical support for haze plans
- SO₂ milestone tracking – funding to complete through 2007
- Don Arkell – state caucus coordinator position
- Resources to maintain WRAP website – managed by staff

Extramural Projects

WRAP Oil & Gas Workgroup

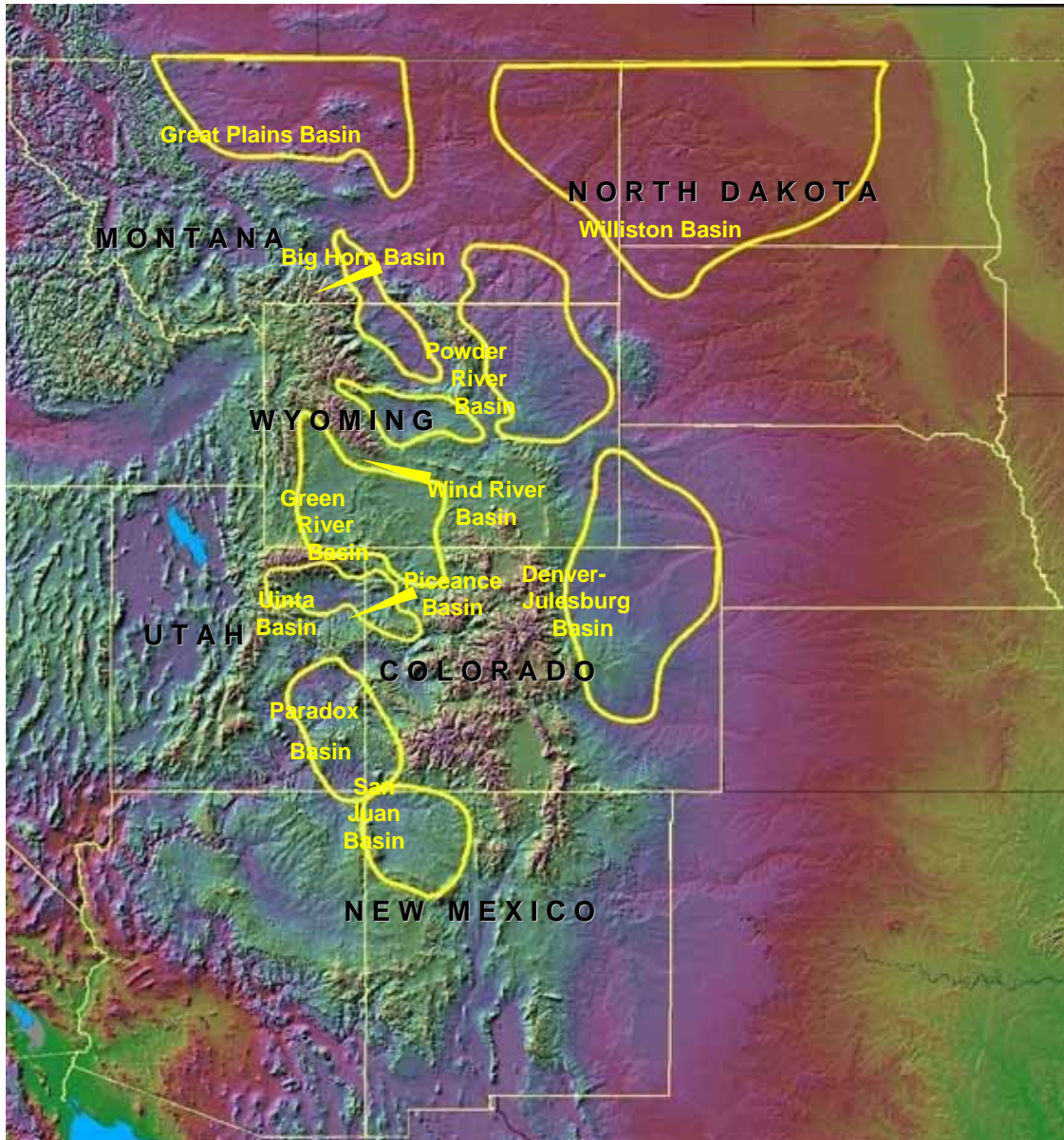
- Originally formed from SSJF to look at O&G issues in the WRAP region - Guided the development of the 1st Regional O&G Emission Inventory in 2005
 - Phase I Inventory found 116K Tons of NO_x from O&G Area Sources not previously counted (900% increase from previous 2002 baseline)
- In 2007 completed Phase II O&G Inventory Update
 - improved accuracy, updated to 2005 baseline, evaluated potential control strategies, revised 2018 projection methodology, improved Point Source SO₂ projections
- Currently overseeing the IPAMS Phase III O&G Emission Inventory development project

WRAP/IPAMS Phase III O&G EI

- Sponsored (& funded) by Independent Petroleum Association of the Mountain States in late 2007 to improve basin specific data for the intermountain west
 - updates baseline to 2006, plus mid-term & 2018 projections
 - includes all criteria pollutants (NO_x, SO₂, PM, VOC & CO)
 - includes all major basins in the Rocky Mountains (MT, ND, WY, UT, CO, NM – see next slide)

- O&G Workgroup Identified Limitations of Phase III
 - does not identify emissions from on and non-road mobile sources associated with O&G field operations
 - does not quantify HAP or Greenhouse Gas emissions associated with O&G field operations

Basins in Phase III Study



- **Denver-Julesburg**
- **Uinta**
- **San Juan**
- **Piceance**
- **Green River**
- **Powder River**
- **Paradox**
- **Williston**
- **Wind River**
- **Big Horn**
- **Great Plains**

WRAP/IPAMS Phase III O&G EI

- Based on detailed survey information requested from all major O&G operators identified for each basin
- Includes a researched complete list of all emission sources from O&G field operations such as all combustion sources (e.g. engines, heaters, flares) as well as other VOC sources (e.g. fugitive, venting, blowdowns)
- WRAP staff participating in weekly project conference calls with IPAMS and O&G operators
- WRAP has held two open Stakeholder calls to allow S/L Agencies, Tribes, FLMs, EPA, Environmental Advocates and O&G Industry Representatives to track progress (planned for bi-monthly calls through to the end of project completion)
- Project scheduled for completion by mid-2009

Oil and Gas “Upstream” GHG Protocol project

- Funded by NM and CA for Western Climate Initiative (WCI)
- Prepares 2 deliverables:
 - High level sources for state regulations
 - Voluntary protocol for The Climate Registry (TCR)
- Tom and Lee working about 20% time
- Complements other O&G work

