

2011 FETS Task Matrix

Tasks	Task included in JFSP Proposal	2011 FETS Tasks	
Task 1: Operations and Maintenance			\$ 23,446.50
Re-locate the database server to Air Sciences Inc.	No	Yes	
Help new data providers add data streams to the FETS; support users with problems and changes to existing data streams.	No	Yes	
FETS Project Status Calls	No	Yes	
General system maintenance and user support.	No	Yes	
Task 2: Inventory Calculation and Reporting			\$ 6,553.50
Air Quality Planning Emission Inventories			
Fire Activity: Enhance geographic coverage and daily resolution of reported data.			
Link the SMARTFIRE data stream to the FETS for data augmentation and gap-filling purposes.	Yes	No	
Build a map-based rule set to filter SMARTFIRE data: exclude data in areas with complete coverage for all fire types, and assign a burn classification based on the five (four) recognized fire types in the FETS (WF,RX,AG,NFR).	Yes	No	
Upload MTBS fire perimeters to the FETS database. Perform spatial QA/QC on large wildfires using the MTBS dataset to improve the accuracy of SMARTFIRE.	Yes	No	
Fire Science: Develop a consistent method to calculate emissions for all fire activity; enhance inputs used for calculating emissions.			
Obtain a batch-enabled version of FEPS. Calculate emissions using CONSUME to estimate consumption and FEPS to estimate emissions.	No	No	
Use MTBS burn severity data to provide combustion information to FEPS.	Yes	No	
Evaluate [coordinate evaluation of] three methods for calculating plume height: DAYSMOKE, Briggs, or WRAP (2002 EI method). Incorporate chosen method into the emissions inventory.	No	No	
Refine ERT calculations to discern whether chosen method(s) affect all pollutants or only particulate matter.	No	No	
Reporting: Develop one or more methods/formats for exporting emission inventories to best serve the intended uses of the data.			
Develop a universal (common) export format for modelers, such as NetCDF.	No	Yes	
Develop a GIS-based export format for planners, such as ESRI shapefile or geodatabase.	No	Yes	
Enhance [Update] the reporting page of the FETS to accommodate all options available with the planning-grade emission inventories.	Yes	No	
Task 3: Emission Inventory and System Improvements			\$ -
Convert existing MS-SQL database to a geospatial-enabled database.	Yes	No	
Migrate base layers to database and perform GIS operations within database.	Yes	No	
Replace interpolated precipitation maps with radar-based precipitation observations for use with CONSUME.	Yes	No	
Replace 1km FCCS map layer with LANDFIRE-based 30m FCCS map layer.	Yes	No	
Add Agricultural lands data from USDA-NASS to the FETS database.	Yes	No	
2011 FETS Task Budget ->			\$30,000.00