

ON THE ROAD FROM LEVEL-1 TO LEVEL-2 QC IN FETS

Fire and Emissions Data Improvement Categories	QC Level Options Paper Jan 2009	October 2009 through 2010 FETS Workplan	Recent Refinements to Road to Level-2
SUPPORT LOW-RESOLUTION DATA		Support for fire data with low spatial and/or temporal resolution. Examples include an activity summary by County and a multi-day fire reported as a single event.	
AG BURNING EMISSIONS	For Ag and NFR fire EI data, amend and augment fuels information and temporal patterns using satellite and land use/cover data to estimate fuels information.	Support for Agricultural burning emissions calculations by crop residue type. This includes a comprehensive table of residue loadings coupled with a detailed (1km resolution) GIS layer of crop types for the WRAP region. It will eventually be replaced by crop FCCS fuel beds for use in CONSUME and an augmented FCCS map that includes agricultural lands.	
GAP FILLING/SATELLITE DETECT DATA	Detects from one or more satellite products would be used to QA and improve the daily spatial location and extent of each Level 1-reported fire event and improve the completeness of the number of fire events across the region on each day.	Use products from RSAC to refine acreage estimates from large wildfires.	
	A revised formula for calculating the daily acres burned would be developed.		Use satellite-based information (HMS) to compensate for States and Tribes not reporting to the FETS, or periods where data collection was interrupted or otherwise unavailable for a geographic region (e.g. historical gap-filling) or burn type (e.g. activity on agricultural lands).
	Land use and land cover data will be used to classify "unknown" fire events detected by satellites, but unreported by SMPs.		
	Develop a first principles estimate of fire emissions and fire type assignment for "unknown" fire events.		
REPORTING	The Level 2 database would be published for each calendar quarter, 6 to 8 weeks after the end of the quarter.		Summaries by fire events (as opposed to daily).
			Counts, acreage totals by agency, source type.
			Identify gaps in reporting over a particular time-period, by source type.

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QA/QC ENVIRONMENT			Provide a web-based QA/QC environment to allow SMPs to efficiently audit data sets for their jurisdiction. This environment will also improve the data entry interface for SMPs with no other means to track and store fire information.
			Implement a quality control hierarchy in the FETS database, with well-developed definitions and criteria for each level.
REFLECT NEW POLICY		Ensure FETS fire classifications reflect current NWCG fire policy, but that legacy classifications and distinctions necessary for Regional Haze applications are preserved.	
EMISSIONS ESTIMATES	Evaluate the existing emissions calculation methods and consider possibilities for improvement and/or augmentation.		Evaluate emissions calculations of primary versus secondary pollutants. How do various fire emission models calculate VOC?
	Replace the current FCCS 1.1 map with a more recent fuels layer such as LANDFIRE. Potential sources of data will be evaluated for technical data quality, completeness, stability, and availability.		
EXPAND GEOGRAPHIC COVERAGE BEYOND WRAP	Expand geographic region to include southwestern Canada, northern Mexico, and the region of the U.S. west of the 100 th meridian of longitude.		