

FY 2006 EXCHANGE NETWORK GRANT PROGRAM AWARDS
Office of Environmental Information
U.S. Environmental Protection Agency
August 30, 2006

FY 2006 EXCHANGE NETWORK GRANT PROGRAM - TOTALS		
Type of Recipient	Total Number of Awards	Total Amount of Awards
Tribes	10	\$1,993,811
States	48	\$16,548,442
Territories	1	\$168,000
All Recipients	59	\$18,710,253

FY 2006 EXCHANGE NETWORK GRANT PROGRAM – RECIPIENTS

Recipient Name	Project Description	Award Amount
Alabama	The Alabama Department of Environmental Management will implement an electronic Discharge Monitoring Report (e-DMR) and National Pollution Discharge Elimination System (NPDES) data management system based on the Michigan NPDES Management system. The implementation of these applications will greatly increase the volume of data provided to the Environmental Protection Agency (EPA) over the Exchange Network.	\$ 500,000
Alaska	The Alaska Department of Environmental Conservation will enhance data exchanges through their established node. The Department will use a Tamino Extensible Markup Language (XML) database to improve efficiency and scalability. The Department will develop Facility Registry System (FRS), National Emissions Inventory (NEI) and Safe Drinking Water Information System (SDWIS) data exchanges and work on an Integrated Compliance Information System – National Pollution Discharge Elimination System (ICIS-NPDES) data exchange.	\$ 500,000
Arizona	The Arizona Department of Environmental Quality will expand their node to include the exchange of Air Facility System (AFS) data, processing citizen complaints, and to continue supporting the exchange of Geographic Information System (GIS) data for homeland security.	\$ 300,000

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Arkansas	The Arkansas Department of Environmental Quality proposes to use its node to initiate Resource Conservation And Recovery Act Information (RCRAInfo) and Institutional Controls Tracking System (ICTS) data exchanges. After RCRAInfo is implemented, the Department will be able to exchange FRS data.	\$ 300,000
California	California Environmental Protection Agency will lead a project to expand the development of the Unified Program Data System developed with funding from a prior grant to widen the scope of agencies that will be able to use the system. This expansion will include support for RCRAInfo data exchange development.	\$ 600,000
California	The California Department of Toxic Substances Control (DTSC) will enhance their EnviroStor data system to be consistent with Institutional Control (IC) standards. The EnviroStor is DTSC's upgraded integrated data management system for tracking and storing environmental site data. They will improve and integrate the data system with local agencies' data systems, which will provide project managers with enhanced project management tools and Geographic Information Systems (GIS) capabilities. An ICTS data exchange will be developed.	\$ 300,000

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Colorado	The Colorado Department of Public Health and Environment will implement a Toxic Release Inventory (TRI) state data exchange on their node. The TRI data exchange will reduce the reporting burden on facilities, reduce data entry, improve data quality, and streamline EPA/Colorado TRI data reconciliation. They will also expand their current EcoData project, which transfers laboratory and field data from outside parties into many of the department's internal systems, by developing a data exchange for the EcoData data. It will include instituting security methods for authentication, a method for external parties to submit the data, and delivery of the data to the EcoData system.	\$ 500,000
Connecticut	The Connecticut Department of Environmental Protection will upgrade their infrastructure for their current water quality monitoring data. Water data will be analyzed and integrated into an enterprise geodatabase. FRS and STORET (a water quality information system) data exchanges will be developed.	\$ 259,000
District of Columbia	The District of Columbia's Department of Health will build a node and develop data exchanges for FRS, NEI, RCRAInfo, and the Chesapeake Bay Program Regional Exchange for Best Management Practices (BMPs). They will also develop internal data exchanges, including an Environmental Public Health Tracking exchange that will help link data on asthma and other threats to public health.	\$ 500,000
Florida	The Florida Department of Environmental Protection will develop, implement and maintain an Exchange Network node. They will develop FRS and SDWIS data exchanges with the EPA, and develop training manuals and conduct briefings and consultations on their work.	\$ 217,701

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Hawaii	The Hawaii Environmental Health Administration will design and develop an Emissions Inventory database system to collect, store, process, share, and transfer emissions data. The database will be able to report NEI data to EPA.	\$ 360,000
Idaho	The Idaho Department of Environmental Quality (DEQ) will begin exchanging data with the Pacific Northwest Water Quality Data Exchange (PNWQDX). The DEQ's Department of Water Resources (IDWR) will exchange water quality data through their node and XML schema data mapping. They will continue to support for FRS, NEI, and PNWQDX data exchanges.	\$ 315,000
Illinois	The Illinois Environmental Protection Agency will establish a new TRI state exchange and prepare interfaces between eDMR and the Electronic Discharge Monitoring System (NetDMR), which was designed for multi-state use under a prior grant. Illinois EPA is a Steering Committee member of NetDMR and intends to implement an eDMR interface to ICIS-NPDES.	\$ 500,000
Indiana	The Indiana Department of Environmental Management will integrate environmental data housed in disparate, cross-platform, intra-agency and inter-agency systems. They will work with the Department of Natural Resources to ensure data adheres to established standards. They will extend current pilot XML exchanges of biological and water quality data.	\$ 559,314
Iowa	Iowa's Department of Natural Resources will develop and implement two data exchanges. They will develop an ICIS-NPDES exchange and also an exchange for data from laboratories to Iowa's node for drinking water report data.	\$ 500,000

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Kansas	The Kansas Department of Health and Environment will develop a RCRA compliance, monitoring and enforcement (CM&E) module to add to the Kansas Facility Profiler. They also plan to develop ICIS and RCRA data exchanges.	\$ 223,879
Kentucky	The Kentucky Department for Environmental Protection will develop a system to improve timeliness, efficiency, and reduce costs associated with the Air Quality annual emissions survey process. They will implement an NEI data exchange.	\$ 200,000
Kentucky	The Kentucky Department of Environmental Protection will implement an FRS data exchange with EPA. Kentucky has completed the final phase of the implementation of an enterprise-wide, integrated environmental data management system named Tools for Environmental Management and Protection Organizations (TEMPO). Other states using the same system include Mississippi, New Mexico, and Maryland. Kentucky will use the TEMPO system to exchange FRS data.	\$ 78,000
Louisiana	The Louisiana Department of Environmental Quality will upgrade its Web services framework to implement an Exchange Network node. They will enhance security controls, web procedures, and data management processes needed to participate on the Exchange Network. They will also implement FRS and NEI data exchanges.	\$ 498,250

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Maine	The Maine Department of Environmental Protection will develop a web-based reporting tool for facilities to efficiently file air emissions inventories for criteria air pollutants, hazardous air pollutants, and greenhouse gases. This tool will enhance the speed, accuracy, and transparency of data submitted from facilities, to the state and on to EPA. The system will also expand the use of the Maine Exchange Network Node and allow Maine to quickly export its air emission information to EPA in an XML format that is compatible with the NEI format.	\$ 500,000
Maryland	The Maryland Department of the Environment will integrate their Hazardous Air Pollutant (HAP) data into their Enterprise Environmental Management System (EEMS) and then map the HAP data to the existing NEI schema. They will also integrate Air Facility System (AFS) into EEMS to facilitate reporting to the EPA and prepare for the AFS data exchange.	\$ 207,578
Massachusetts	The Massachusetts Department of Environmental Protection will implement a node-to-node data exchange using the AQS schema. They will explore options to partner with EPA and other states that are already in development for this exchange, to create validation tools to automate some aspects of the quality assurance process.	\$ 500,000
Michigan	The Michigan Department of Environmental Quality will implement a comprehensive data exchange for NEI. They will create a Web-based facility-to-state air data exchange using EPA's source model to improve data exchange capability and expand the exchange to automatically submit NEI to EPA.	\$ 436,900

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Minnesota	The Minnesota Pollution Control Agency will expand their system capabilities by developing an authentication portal, establish CROMERR compliance, and expand data transfer options by adding functionalities such as cut-and-paste and Web entry options.	\$ 353,755
Mississippi	The State of Mississippi Department of Environmental Quality will build on node technology to allow tighter integration of their data system, EnSite, and additional data systems that feed EPA data flows and support internal agency requirements.	\$ 300,000
Missouri	The Missouri Department of Natural Resources will enhance existing state applications in order to increase data quality and eliminate the need for manual intervention to perform quality assurance prior to submission of NEI data.	\$ 200,000
Missouri	The Missouri Department of Conservation will improve access to water quality information and data management through the Missouri Stream Team Program in partnership with the Missouri Department of Natural Resources and Stream Team Program.	\$ 45,000
Montana	The Montana Department of Environmental Quality will assist the Methamphetamine Cleanup Program by advancing the quality and availability of environmental data for the development of MethNet using the Exchange Network. MethNet will establish an exchange between their department and the Montana Department of Justice.	\$ 249,638

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Nevada	The Nevada Division of Environmental Protection will develop an eDMR application for facility-to-state electronic submission of DMR data to enhance their exchange of ICIS-NPDES data. They will develop an electronic Drinking Water Report (eDWR) application to enable laboratory-to-state electronic submittal of drinking water reports. They will perform a feasibility study of a reverse exchange (EPA-to-state) of RCRAInfo.	\$ 300,000
New Hampshire	The New Hampshire Department of Environmental Services will improve the exchange, analysis and integration of selected groundwater data sets in support of more efficient data collection and management. They will improve the delivery of arsenic and radon-related data to Public Health.	\$ 172,045
New Jersey	The New Jersey Department of Environmental Protection will leverage the security analysis conducted as part of their previous homeland security grant to conduct a state specific analysis and implementation. This will include an infrastructure analysis, XML gateway evaluation, hardware purchase, hardware deployment and end-user training.	\$ 190,000
New Jersey	The New Jersey Department of Environmental Protection and Mississippi Department of Environmental Quality will partner to develop the interface, schema mapping and procedures to exchange RCRAInfo CM&E data from their sister enterprise environmental management systems through EPA's Central Data Exchange (CDX).	\$ 299,200

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New Mexico	The New Mexico Environment Department will leverage its existing node architecture to implement an Air Quality System (AQS) exchange and enhance the current NEI data exchange. They will also use the Exchange Network to implement an electronic exchange of regional air data with trading partners from the Western Regional Air Partnership.	\$ 321,000
New York	The New York State Department of Environmental Conservation will build upon its existing node infrastructure, as well as on the work done under a previous Exchange Network Challenge Grant by other states and by a partner organization, NatureServe, to implement a data exchange for the biodiversity data maintained by the New York Natural Heritage Program (NYNHP). They will also to make use of the data exchange to develop a New York State-based user interface to provide GIS-based web services that will respond to application requests regarding the locations of rare species and significant ecosystems.	\$ 265,000
New York	The New York State Department of Environmental Conservation will promote the exchange of groundwater data between the New York Department of Health (DOH) and the United States Geological Survey (USGS-NY) in New York. Nodes will be implemented at DOH and USGS-NY. This data will include SDWIS and USGS national water system data.	\$ 500,000

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North Carolina	The North Carolina Department of Environment and Natural Resources Division will create a Web portal for the regulated community to submit electronic reporting information. The portal will support multiple formats of data submission. They will also develop data exchanges to support eDMRs and NPDES.	\$ 500,000
Ohio	The Ohio Environmental Protection Agency will evaluate options available for implementing CROMERR for agency electronic document receiving systems. The agency will upgrade one or more EDR systems to meet CROMERR requirements and make necessary conversions to implement the ICIS-NPDES schema.	\$ 400,000
Oklahoma	The Oklahoma Department of Environmental Quality will continue development of permitting, inspection, and enforcement systems. Activities include a Web-based electronic submission system, maintaining an electronic document repository, developing NetDMR interface to ICIS-NPDES, and developing a TRI state data exchange.	\$ 140,000
Oregon	The Oregon Department of Environmental Quality will create schema for exchange of air analytical outputs in order to implement data sharing between the multiple agencies who jointly manage the Columbia Gorge Scenic area.	\$ 340,029
Pennsylvania	The Commonwealth of Pennsylvania Department of Labor and Industry Bureau will migrate their current TRI reporting system to a new internet-based system to allow for the secure transfer of information between partners. Infrastructure upgrades will be required to prepare for this exchange.	\$ 100,000

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South Carolina	The South Carolina Department of Health and Environmental Control will build on the existing Network node infrastructure by developing exchanges for NEI, RCRAInfo, eBeaches, AQS, and Recreational Water Inspection data. Enhancements to the Network node client include a scheduler for automatic transfers of data with EPA.	\$ 300,000
Tennessee	The Tennessee Department of Environment and Conservation will pursue a variety of data improvement activities and implementation of SDWIS and STORET data exchanges. This proposal builds upon work in progress from previous awards.	\$ 200,000
Virginia	The Virginia Department of Health will build infrastructure and develop data solutions to implement an Exchange Network node. They will develop data collection and exchange tools that will enhance the quality and availability of drinking water data, and a SDWIS exchange will be developed.	\$ 691,540
Washington	The State of Washington Department of Ecology will lead a project to develop a Geo-Location Finder application. This application will provide access to a query-based Web application that returns needed location information to applicants. The application allows a number of different geospatial elements to be included in agency applications.	\$ 485,324
West Virginia	The West Virginia Department of Environmental Protection will enhance their Environmental Resource Information System (ERIS) data to interface with ICIS-NPDES and to make better use of Total Maximum Daily Load (TMDL) data and modeling to improve permitting decisions. They will also work with the Chesapeake Bay Initiative to track and exchange data about BMP.	\$ 241,600

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West Virginia	The West Virginia Department of Health and Human Resources will implement Source Water Protection (SWP), GIS and Source Water Area Polygon Data Layer (SWAPDL) exchanges on their node. They will develop and implement a Web-based Electronic Data Interchange (EDI), install Drinking Water Watch software, and develop a Safe Water Operator Certification System.	\$ 300,000
Wisconsin	The Wisconsin Department of Natural Resources on behalf of the Midwest Spatial Decision Support Systems partnership will develop a Web-based, decision support system for watershed management that includes automated tabular and spatial data discovery, exchange, integration, and analysis tools.	\$ 500,000
Wyoming	The Wyoming Department of Environmental Quality will exchange Formerly Used Defense Sites (FUDS) data with EPA, the US Forest Service (USFS), the Bureau of Land Management (BLM), the US Corp. of Engineers (USAGE), USGS, Wyoming City and County governments, law enforcement, private land owners and citizens.	\$ 298,689
TRIBES		
Alaska Inter-Tribal Council Alaska	The Alaska Inter-Tribal Council will visit villages to solicit their needs for contaminant information. They will research existing contaminant information and databases relevant to Alaska rural villages and identify gaps. Exchange Network partners will be identified and a node will be developed and a data exchange will be produced.	\$ 392,879
Salt River Pima-Maricopa Indian Community Arizona	The Salt River Pima-Maricopa Indian Community will develop their infrastructure and develop an AQS data exchange. Geospatial data will be integrated with the AQS data.	\$ 203,298

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Yurok Tribe California	The Yurok Tribe's Environmental Program will develop infrastructure, expand their database, create modules to receive and export hydrological information, and grab sample data in formats compatible with STORET. Yurok will also share their database and knowledge with tribes in the Klamath River Basin.	\$ 150,000
Santa Ysabel Band of Diegueno Indians California	The Santa Ysabel Band of Diegueno Indians will upgrade their current Internet connection. The purpose is to create a reliable and stable Internet connection for participation in the Exchange Network. They propose to create an operational Exchange Network node and exchange SDWIS, STORET and SWP.	\$ 251,303
Shoshone-Bannock Tribe Idaho	The Shoshone-Bannock Tribe's Air Quality Program Office will add a component to their ResourceVue application, which includes AQS and NEI data. Translation and validation tools will be developed for AQS and NEI.	\$ 142,203
Nez Perce Tribe Idaho	The Nez Perce Tribe of Idaho will advance their current work on an Exchange Network node by building an EPA compliant database structure for improved air and water quality data transfer to EPA's STORET, AQS, and AIRNow databases. They will construct a robust air monitoring and smoke management system.	\$ 120,856
Aroostook Band of Micmacs Maine	The Aroostook Band of Micmacs operates a State of Maine certified drinking water laboratory that provides data for Tribal and non-Tribal water supplies. All information is manually entered. They would like to build an infrastructure to automatically collect data from the individual instruments and integrate the data into SDWIS/FED.	\$ 98,730

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Mni Sose Intertribal Water Rights Coalition South Dakota	The Mni Sose Intertribal Water Rights Coalition will assess, collect, and evaluate environmental data for the reservations of Region 7. The data will be exchanged on their node.	\$ 363,200
Stillaguamish Indian Tribe Washington	The Stillaguamish Indian Tribe Natural Resources Department will acquire and deploy the hardware and software infrastructure for a high bandwidth internet connection and Exchange Network node. They will also develop a WQX Exchange Network data exchange.	\$ 148,842
Hualapai Tribe	The Hualapai Tribe's Department of Natural Resources will continue the development of their database to include Geographic Information System (GIS) capabilities for their own analysis and Web-based purposes and for incorporation of additional environmental data collected by the Tribe so that the data may be readily shared with EPA.	\$ 122,500
TERRITORIES		
Guam	The Guam Environmental Protection Agency will make minor infrastructure improvements to ensure secure and reliable Web services. Facility data will be collected and managed through the Guam internal database. FRS data will then be exchanged over the Exchange Network.	\$ 168,000