

More EI with Less Time and Money Invested



Idaho Department of Environmental Quality

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Goals

- Complete inventories within one year with fewer people, lower cost, and improved accuracy
- Gather all 44 point source data elements in CERR
- Better organize and speed data collection process to decrease both IDEQ and facility work hours
- Eliminate computer compatibility issues and ease facility data entry via IDEQ Web-based program
- Limit quality assurance needed through automation
- Find additional methods to save time, money, and gather quality data through the use of further automation, available software, and inter-agency cooperation

Methods

- Used creative scheduling of periodic inventory project to keep budget available throughout
- Created user-friendly, Web-based software program to gather point source emissions data
 - ❖ *Program provides two-thirds of QA on data*
 - ❖ *Software is linked to NIF, SQL Server database*
- Developed inter-agency relationships to get better heavy-duty fleet-mix and statewide VMT estimates
- Used available software programs to decode VINs for county-level, light-duty fleet-mix data

Creative Scheduling

- IDEQ's fiscal year runs from July 1 – June 30
- Point sources completed January 5 – May 31 when “federal money” is still available for use
- Area, on-road, non-road, and biogenic sources are scheduled for July 1 – December 31 when “state money” has been replenished and is available without question or shortage
- Creative scheduling allows for ample monies for all portions of EI while still meeting one-year completion goal proposed for 2011 in the AERR

Web-based Software

- IDEQ created a user-interface for facility entry of emissions data for use in the 2002 EI
- The program has been updated for 2005 so facilities can complete Title V registration of pollutants for fee purposes if they fail to meet the criteria of the CERR
- Software provides speed, consistency in data format, direct placement of data into the NIF, gathers all 44 data elements in the CERR, and completes two-thirds of QA via “control” of data entry fields

Emissions Inventory

Please Login to the Emissions Inventory Application

Not Logged In: [Login](#)

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Welcome to the DEQ Emissions Inventory Graphic User Interface.

Thank you for using this online tool to report your facility air emissions. Emissions registration is required annually for Title V facilities. Full emissions inventories are required for those facilities meeting the requirements of the Consolidated Emissions Reporting Rule (CERR). We believe this interface will simplify and expedite both of these requirements. Thank you once again for your cooperation on these projects.

Department of Environmental Quality

User Name:

Password:

[login](#)

Out of State Agencies: To download the software for your use contact Christopher.Ramsdell@deq.idaho.gov.

Emissions Inventory

Please enter Facility Information

Logged in as GarysYomania | Logout

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DEQ Facility ID: **06900666**
Facility Name: **Garys Yomania**

SIC Primary: **5092**

NAICS Primary: **42392**
Inventory Year: **2004**

Last Save Information

Last User:

Last Time:

Physical Address Information

Street Address:

City:

State:

ZIP Code:

Mailing Address Information

Company Name:

Mailing Address:

City:

State:

ZIP Code:

Exact Physical Location

Facility Category:

Site Location:

Site County:

UTM Easting (km):

UTM Northing (km):

UTM Zone:

Contact Information

Name:

Phone (office):

Email:

Other Phone:

Fax Number:



Emissions Inventory

Logged in as GarysYomania | Logout

Main Menu

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Final Submittal Status: **X**

- [-] Emissions Inventory: 2004
 - [+] [-] Facility Info
 - [-] Stack Data
 - X** [Dragonfly \(010\)](#)
 - X** [Element X& \(020\)](#)
 - X** [Freehand \(030\)](#)
 - X** [Roadster \(040\)](#)
 - X** [Samurai \(050\)](#)
 - [-] Add New Stack
 - [-] Delete Stack
 - [-] Point Data
 - [-] DF 1 - Dragonfly (010)
 - [-] Process -- 1 - Plastic Injection Mold - Natural Gas Fired
 - X** [Emission -- 1,2,3,4,5,6-hexachlorocyclohexane](#)
 - X** [Emission -- primary pm10, filterable portion only](#)
 - [-] EX 2 - Element X& (020)
 - [-] Process -- 1 - vvy
 - X** [Emission -- nitrogen oxides](#)
 - [-] FH 2 - Freehand (030)
 - [-] Process -- 1 - yes
 - X** [Emission -- primary pm2.5 \(includes filterables + condensibles\)](#)
 - [-] RD 1 - Roadster (040)
 - [-] Process -- 1 - gg
 - X** [Emission -- primary pm condensible portion only \(all less than 1 mi](#)
 - [-] SM 1 - Samurai (050)
 - [-] Process -- 1 - yes, indeedy mjuoytre
 - X** [Emission -- 1,1-dimethyl hydrazine](#)
 - X** [Emission -- nitrogen oxides](#)

Emissions Inventory

Please enter Stack Information

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Current Stack: **Dragonfly**
DEQ Facility ID: **06900666**

Inventory Year: **2004**
AIRS Stack ID: **010**

Facility Stack ID:
Stack Description: 36 characters left
UTM East (km): UTM North (km): UTM Zone:

Horizontal Collection Method: 

UTM North: UTM Northing in kilometers for this stack.

Horizontal Accuracy Measure (m):

Horizontal Reference Datum Code:

Coordinate Data Source Code: 

Source Map Scale Number:

Emission Release Point Type:

Stack Height (ft):

Effective Stack Diameter (ft):

Exit Gas Temperature (F):

Exit Gas Velocity (ft/s):

Stack Fenceline Distance (ft):

Volumetric Flow Rate (acfs):

* If the "Emission Release Point Type" = 01 - Fugitives, please answer the following:

Emissions Inventory

Please enter Point Information

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Current Point: **DF 1**

DEQ Facility ID: **06900666**

Inventory Year: **2004**

AIRS Point ID: **010**

Facility Point ID:

Point Description:

Facility Stack ID:

characters left

Design Capacity:

Units: /

Max Nameplate Capacity: (in Million Watts)

Processes:

Process ID

Completed

1 - Plastic Injection Mold - Natural Gas Fired



add process

delete process

save

submit

Emissions Inventory

Please enter Process Information

Logged in as GarysYomania | Logout

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Process ID: 1

DEQ Facility ID: 06900666

Inventory Year: 2005

Facility Point ID: DF 1

SCC:

Process Material:

Actual Annual Throughput:

Material I/O:

Units Per Year:

Emission Process Description:

characters left

Operations

Weekday Operation %:

Operation Hours per Day:

Winter Operation %:

Operation Days per Week:

Spring Operation %:

Operation Weeks per Year:

Summer Operation %:

Operation Hours per Year:

Fall Operation %:

Total Operation %:

Fuel

Heat Content:

Sulfur Content:

Ash Content:

Process Emissions

Pollutant:

1 2 3 4 5 6-hexachlorocyclohexane

Completed:

X

Done

Local intranet

Emissions Inventory

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Please enter Pollutant Information

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Process ID: 1

Inventory Year: 2005

Facility Point ID: DF 1

Actual Annual Throughput:

Current Pollutant:

Emissions: TON/YR

Uncontrolled Emission Factor:

Units: /

Emission Calculation Method:

Emission Factor Reliability:

Emission Factor Reference:

Complete Control System Description:
40 characters left

Primary Control %:

Primary Control Reference:

Primary Control Type:

Secondary Control %:

Secondary Control Reference:



Facility: Garys Yomania	Facility List For 2005 Lock
<ul style="list-style-type: none"> Emissions Inventory: 2005 <ul style="list-style-type: none"> Facility Info Stack Data Point Data <ul style="list-style-type: none"> DF 1 - Dragonfly (010) <ul style="list-style-type: none"> Process -- 1 - Plastic Injection Mold - Natural Gas Fired <ul style="list-style-type: none"> Emission -- carbon monoxide Emission -- primary pm10 (includes filterables + conde Emission -- primary pm2.5 (includes filterables + conde EX 2 - Element X8 (020) <ul style="list-style-type: none"> Process -- 1 - vvv <ul style="list-style-type: none"> Emission -- nitrogen oxides Emission -- primary pm10 (includes filterables + conde Emission -- sulfur dioxide Emission -- volatile organic compounds FH 2 - Freehand (030) <ul style="list-style-type: none"> Process -- 1 - yes <ul style="list-style-type: none"> Emission -- primary pm10 (includes filterables + conde Emission -- primary pm2.5 (includes filterables + conde RD 1 - Roadster (040) <ul style="list-style-type: none"> Process -- 1 - gg <ul style="list-style-type: none"> Emission -- primary pm10 (includes filterables + conde SM 1 - Samurai (050) <ul style="list-style-type: none"> Process -- 1 - yes, indeedy miuovtre <ul style="list-style-type: none"> Emission -- carbon monoxide Emission -- nitrogen oxides Emission -- sulfur dioxide Emission -- volatile organic compounds Process -- 2 - asdf <ul style="list-style-type: none"> Emission -- carbon monoxide 	<ul style="list-style-type: none"> 2005 Ash Grove Cement ✓ 2005 Avista Corporation \$ 2005 Basic American Foods, Blackfoot ✓ 2005 Basic American Foods, Rexburg ✓ 2005 Basic American Foods, Shelley \$ 2005 Bennett Lumber Products Inc \$ 2005 Bennett Mountain Power Generation \$ 2005 Boise Cascade E 2005 Busch Ag Resources Inc - Malt \$ 2005 Chevron Pipe Line Company and NW Terminalling Co E 2005 Chilco Lake Lumber - Athol \$ 2005 Conagra Foods - Twin Falls \$ 2005 Dynamic Fabricators, LLC \$ 2005 Evander Andrew Complex \$ 2005 Evergreen Forests & Tamarack Energy Partnership \$ 2005 Fiberglass Systems \$ 2005 flexcel \$ 2005 Garys Yomania E 2005 Idaho Fresh Pak, IdahoFalls \$ 2005 Idaho Fresh Pak, Lewisville ✓ 2005 Idaho Supreme Potatoes ✓ 2005 INL - DOE E 2005 INL AMWTF ✓ 2005 INL Argonne National Laboratory W ✓ 2005 INL Central Facilities Area (CFA) ✓ 2005 INL INTEC ✓ 2005 INL PBF/WERF ✓ 2005 INL Radioactive Waste Mgmt. Complex

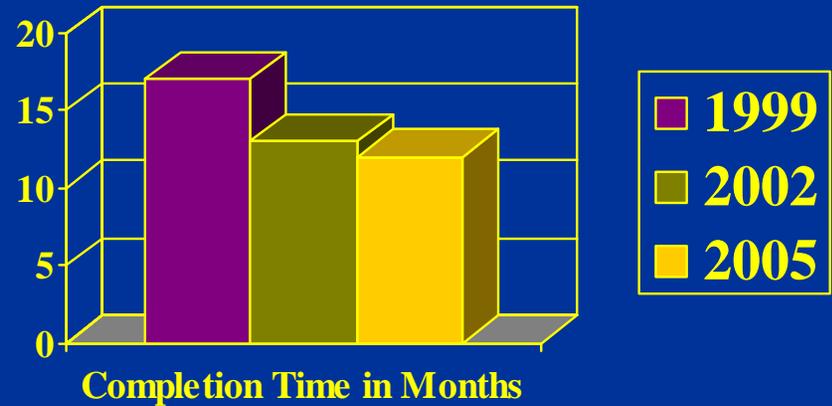
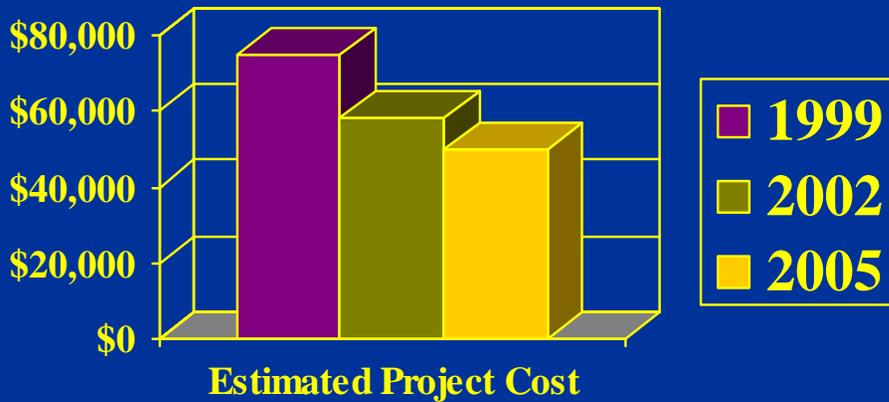
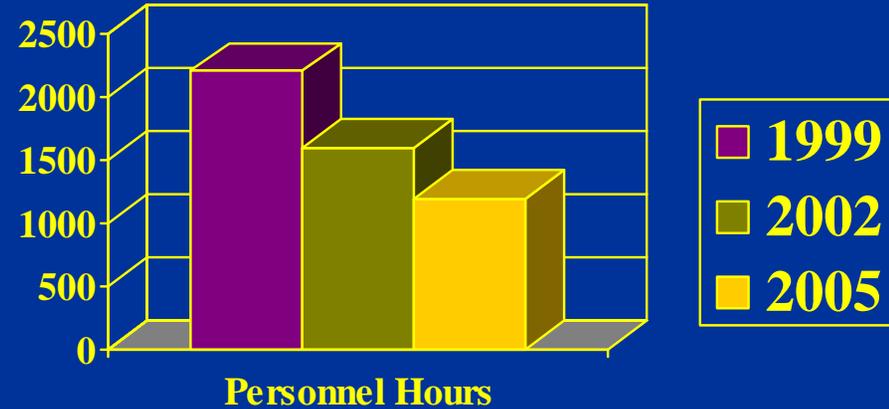
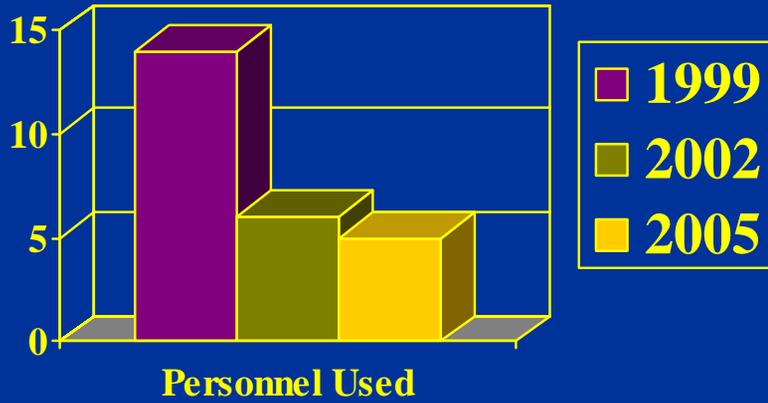
New Directions

- IDEQ has created new working relationships with other state agencies in an effort to get faster, more accurate data for inventories
 - *Transportation Department is providing roadway counter data for VMT and heavy-duty fleet-mix using axle spacing taken from weigh-in-motion*
- Software decoded VINs to give us spot-on light-duty vehicle fleet-mix at the county level

In the Works

- IDEQ is researching whether authority exists for direct Web survey of area industrial & commercial sources for inventory, PSD increment tracking, and regional haze SIP control strategy development purposes
- IDEQ is in the process of creating an agency-wide database/network that will allow universal queries on each permit holder, pollutant, county, etc. that will be transparent

The EI Numbers



Conclusions

- IDEQ's Web-based, point source survey tool greatly reduces work time and inventory costs by speeding data gathering, formatting, and quality assurance
- Other actions should garner faster and more accurate emission estimates as well – such as mobile source estimates through improved fleet-mix and VMT information
- Further efforts to automate and streamline the emissions inventories in the future will ensure continued improvement in accuracy and meeting EPA timelines

Questions?

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