

NONROAD-AT: A Database Tool for Managing Off-Road Emissions Scenarios Created with EPA's NONROAD Model



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ENVIRON

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Acknowledgements

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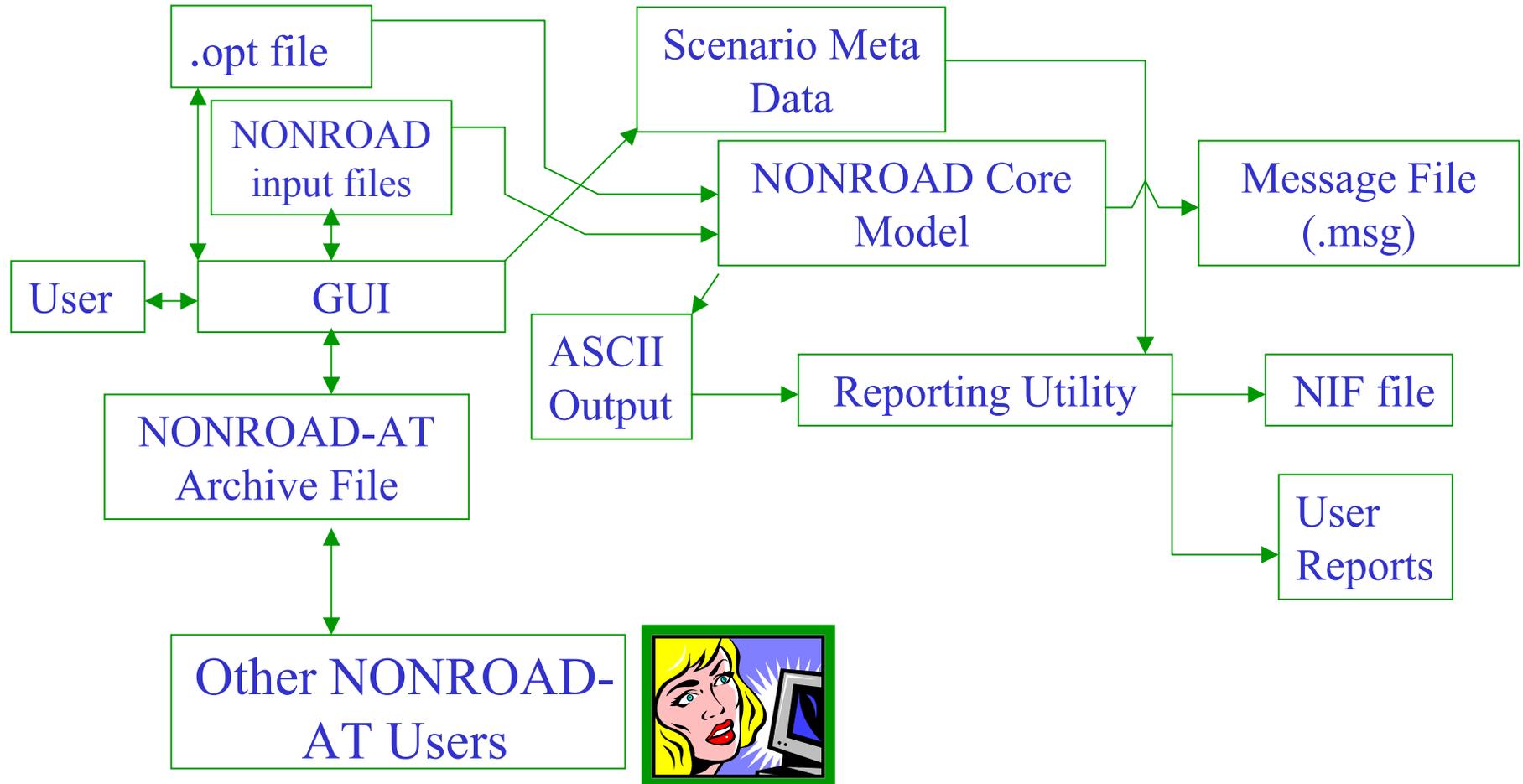
NONROAD-AT: Key Features

- Stores meta-data with each run (scenario)
- Allows users to share archived scenarios
- NIF output (currently v2)
- Uses existing NONROAD core model
- Familiar NONROAD GUI and Reporting tools

Compatibility

- NONROAD core model (FORTRAN executable) is replaceable module
- Uses standard NONROAD input files
- Creates standard ASCII output and NONROAD reports
- Requires Access 2000; Windows 98/NT

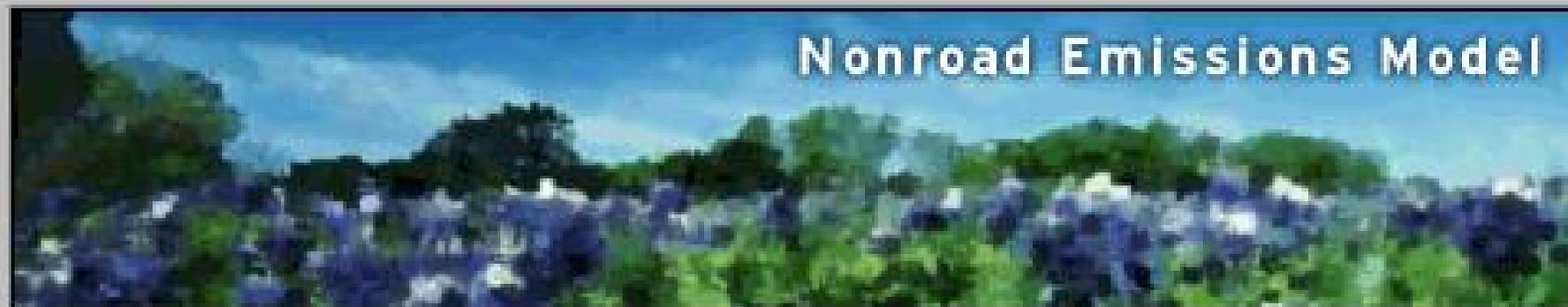
NONROAD-AT: Architecture



NONROAD-AT GUI



File Scenario Model Advanced options Batch Help



Simulation Run Title : TX-TEST 1
Current Message File : templtx.msg
Current Output Data File : templtx.out

Run Meta Data

Run Information

Run ID: 238833E174CF11D7ACBA00C09F06F7B6

Run Name: tmpITX2

Software Name: NON-ROAD

Software Version: 2.1

Date of Run: 20030422

Time of Run: 1433

Run Memo:
Test based on default TX template for Houston-Galveston NA area

Contact Information

Organization Name: ENVIRON

Contact Person: Till Stoeckenius

Contact Phone Number: 415.899.0700

Contact Fax Number: 415.899.0707

Contact Email Address: tstoeckenius@environcorp.com

OK Cancel

Edit Input Files

The screenshot shows a window titled "Edit Growth File - C:\Files\A-Tools\Non-Road\Data\GROWTH\NATION.GRW". The window has a menu bar with "File" and a search area with a text input field, "Find", and "Next" buttons. The main area contains a list of 23 rows of data. The bottom of the window has "Edit", "Insert", "Delete", and "Close" buttons.

Year	Code	Value
1996	010	1000
1996	011	1000
1996	012	1000
1996	013	1000
1996	014	1000
1996	020	1000
1996	021	1000
1996	022	1000
1996	023	1000
1996	024	1000
1996	030	1000
1996	031	1000
1996	032	1000
1996	033	1000
1996	034	1000
1996	040	1000
1996	041	1000
1996	042	1000
1996	043	1000
1996	044	1000
1996	050	1000
1996	051	1000
1996	052	1000
1996	053	1000
1996	054	1000
1996	060	1000
1996	061	1000
1996	062	1000

Region Selection

Region

Region

50 States

State

County

US Total

States

- New Mexico
- New York
- North Carolina
- North Dakota
- Ohio
- Oklahoma
- Oregon
- Pennsylvania
- Rhode Island
- South Carolina
- South Dakota
- Tennessee
- Texas**
- Utah
- Vermont
- Virginia

Groups

- Alamo Area Council of Governments
- Ark-Tex Council of Governments
- Austin NNA (Class I)
- Austin NNA (Class II)
- BP NA Area
- Brazos Valley Development Council
- Capital Area Planning Council
- Central Texas Council of Governments
- Coastal Bend Council of Governments
- Concho Valley Council of Governments
- Corpus Christi NNA (Class I)
- Corpus Christi NNA (Class II)
- Deep East Texas Council of Governmer
- DFW NA Area
- East Central RPA
- East RPA

Counties

- Anderson County
- Andrews County
- Angelina County
- Aransas County
- Archer County
- Armstrong County
- Atascosa County
- Austin County
- Bailey County
- Bandera County
- Bastrop County
- Baylor County
- Bee County
- Bell County
- Bexar County
- Blanco County

Current selection

- Austin County TX
- Brazoria County TX
- Chambers County TX
- Colorado County TX
- Fort Bend County TX
- Galveston County TX
- Harris County TX
- Liberty County TX
- Matagorda County TX
- Montgomery County TX
- Walker County TX
- Waller County TX
- Wharton County TX
- All of Texas

OK Cancel Add Del

Options

Options

Report Title 1

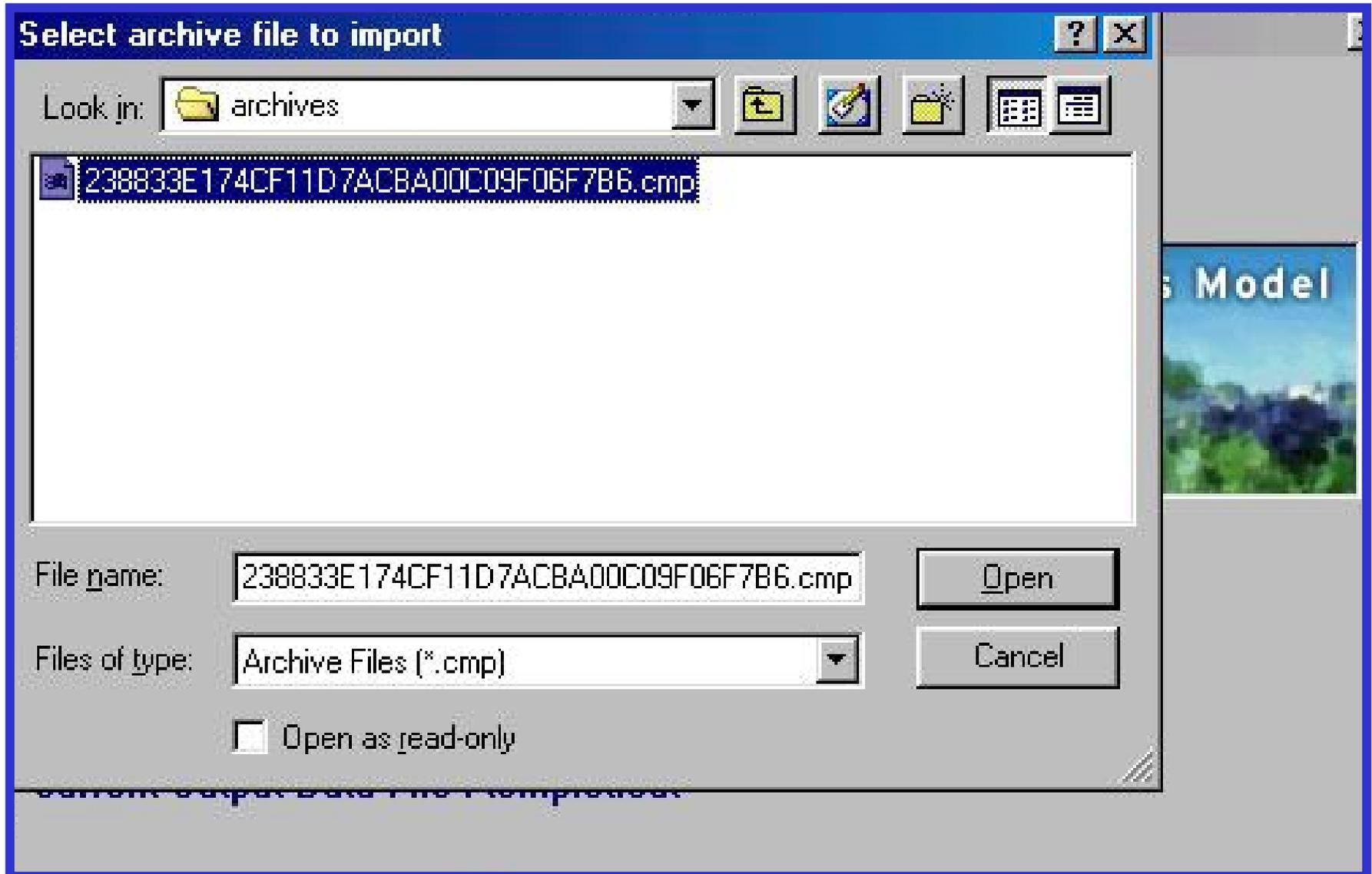
TX-TEST 1

Report Title 2

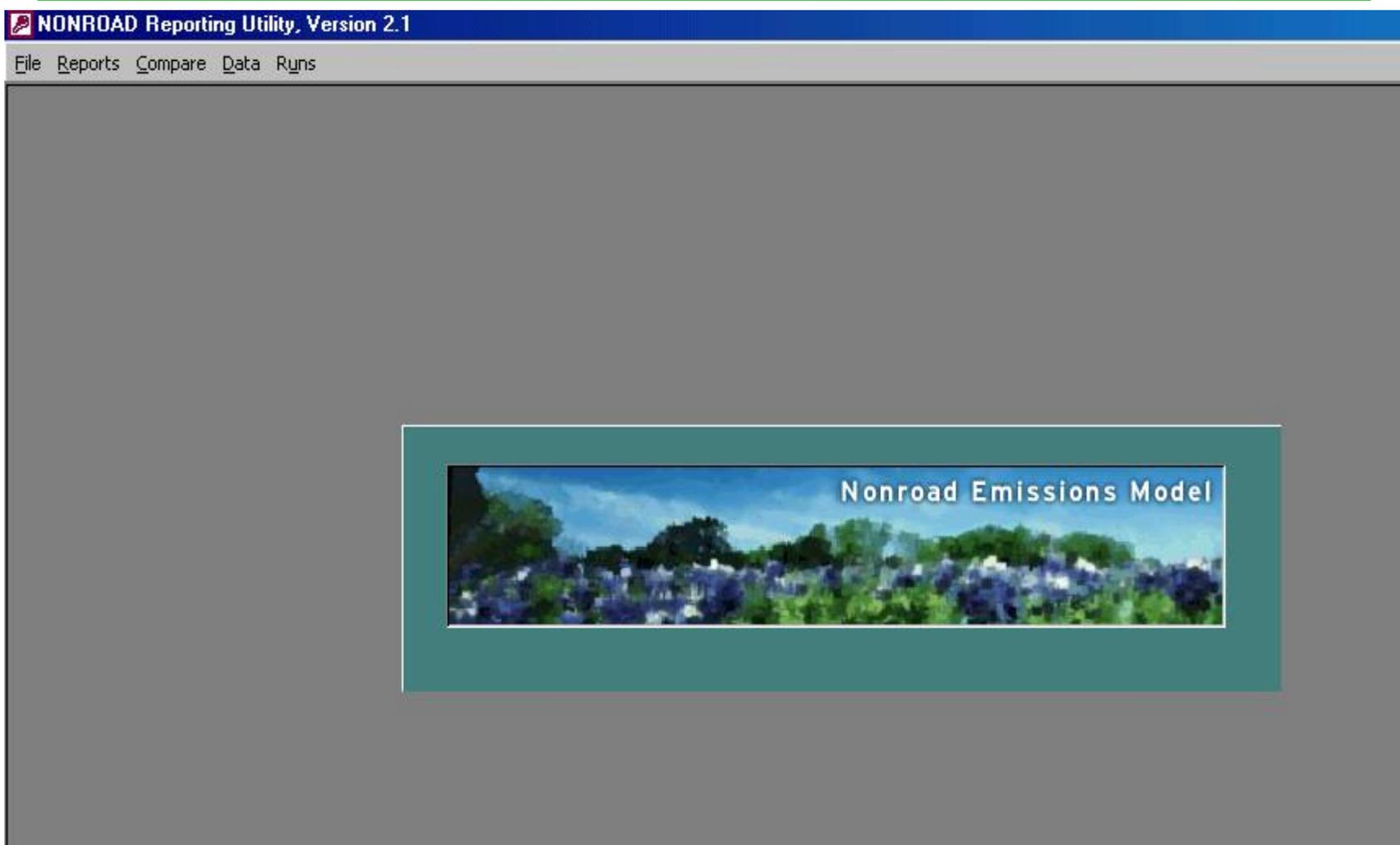
TX-TEST1 TITLE 2

Fuel RVP for gas	<input type="text" value="8.0"/>	Minimum temp (F)	<input type="text" value="60"/>
Oxygen weight %	<input type="text" value="0.0"/>	Maximum temp (F)	<input type="text" value="84"/>
Gas Sulfur %	<input type="text" value="0.034"/>	Average temp (F)	<input type="text" value="75"/>
Diesel Sulfur %	<input type="text" value="0.330"/>	Calc. Temperatures	
CNG/LPG Sulfur %	<input type="text" value="0.003"/>	Altitude:	
Stage II Control %	<input type="text" value="0"/>	High <input type="radio"/> Low <input checked="" type="radio"/>	

Archives



NONROAD-AT: Reporting Utility



Reports

- Emissions Totals by: County, Equipment Type, Horsepower, HP and Source Classification, HP and SCC, SCC
- Hourly emissions by SCC
- Emission Totals by Source Classification
- Population and Fuel Consumption by HP and Source Classification
- Population and Fuel Consumption by SCC

Comparison Reports

- Compare Two Model Runs by HP and Source Classification, Pop and Fuel, SCC, Source Classification
- Compare Two Model Runs by
 - County
 - HP
 - Equipment Type
 - HP and SCC

Search for a Run

The image shows a software dialog box titled "Run Selection Criteria". It features two main sections: "Selection Criteria" on the left and "Period Selection" on the right. Each section contains several dropdown menus for filtering search results. At the bottom right, there are two buttons: "Search" and "Close".

Section	Field	Control Type
Selection Criteria	Organization:	Dropdown
	Contact Name:	Dropdown
	County:	Dropdown
Period Selection	Year:	Dropdown
	Period:	Dropdown
	Type:	Dropdown
	Season:	Dropdown
	Month:	Dropdown
	Day:	Dropdown

Buttons: Search, Close

Meta Data Run Detail	
Run Info	
Run ID:	238833E174CF11D7ACBA00C09F06F7B6
Run Name:	tmpITX2
Software Name:	NON-ROAD
Software Version:	2.1
Run Date:	20030422
Run Time:	1433
Run Memo:	Test based on default TX template for Houston-Galveston NA area
Contact Info	
Organization Name:	ENVIRON
Name:	Till Stoeckenius
Phone:	415.899.0700
FAX:	415.899.0707
Email:	tstoeckenius@environcorp.com
View Files View Criteria Close	

Meta Data Run Detail

Run Info

Meta Data Run Criteria

Period Selection		County Selection
Year:	2010	Brazoria County
Period:	Annual	Chambers County
Type:	Period total	Fort Bend County
Season:		Galveston County
Month:		Harris County
Type of Day:	Weekday	Liberty County
		Montgomery County
		Waller County

Close

FAX: 415.899.0707

Email: tstoeckenius@environcorp.com

View Files **View Criteria** **Close**

Meta Data Run Detail

Run Info

Run ID: 320022E474CE44D73ACB400C00E0CE7DC

Run I

Softv

Softv

Run I

Run I

Run I

Contact

Orga

Name: Till Stoeckenius

Phone: 415.899.0700

FAX: 415.899.0707

Email: tstoeckenius@environcorp.com

View Files **View Criteria** **Close**

Select File Info to Display

File Name	File Type	User Name
allocate.xrf	EPA Defaul	EPA-OTAQ
act_tx.dat	Custom	TNRCC
tech.dat	EPA Defaul	EPA-OTAQ
season.dat	EPA Defaul	EPA-OTAQ
season.dat	EPA Defaul	EPA-OTAQ

OK **Close**

HA area

The screenshot shows a web browser window with a title bar that reads "Meta File Run Detail". The main content area has a header with the same title. Below the header is a section titled "File Info" which contains several fields:

Run ID:	238833E174CF11D7ACBA00C09F06F7B6
File Name:	allocate.xrf
File Type:	EPA Defaul
File Date:	20000425
User Name:	EPA-OTAQ
Reference:	http://www.epa.gov/otaq/nonrdmdl.htm#techrept

Below the "File Info" section is a "Comments:" field containing the text: "Current version from EPA web site (see reference) See additional headers in file for more information".

At the bottom of the window, there are three buttons: "View Files", "View Criteria", and "Close". A separate "Close" button is also located in the bottom right corner of the main content area.

NIF Output

