

# TIPS Data Miner

*A TIPS Tool in service to the SMCRA professional*

**2008 Geospatial Conference**

**March 24 – 28, 2008**

**Atlanta, GA**

**Presented by Janine Ferarese**



# What Is the Data Miner?

*Geospatial data can be expensive to create and frustrating to acquire – especially if you don't know where to look*

- A search tool
- Designed with the SMCRA professional in mind
- An aid in locating geospatial and natural resource data

***The TIPS Data Miner is your resource to a diamond mine of data***

# How can the Data Miner help me?

- Begin by asking questions:
- What kind of data am I looking for?
- What do I want to do with the data?

*Where can I find the data I need?*

*Use the Data Miner to help you find the geospatial data you need*

# Meeting Data Needs

The Data Miner can help you find such things as:

1. Topo maps
2. Aerial photographs and Satellite Imagery
3. Geospatial data clearinghouses for your State of interest
4. Digital data viewers that you can download for free
5. Technical and scientific software that TIPS has available for your use
6. A veritable plethora of geospatial data and natural resource information

*I always wanted to use the word plethora!*



# Where can I find the Data Miner?

- On the TIPS external Web Site
- <http://www.tips.osmre.gov>
- Under Resources on the left-side navigation bar



# What does the Data Miner look like?

It's a Web Page

## TIPS Data Miner

### Welcome to TIPS Data Miner Gateway to a diamond mine of data

Welcome to the TIPS Data Miner portal. This site is a comprehensive collection of geospatial and natural resource information designed with the SMCRA professional in mind. Here you will discover what you need to know as a GIS user acquiring data, what to look for and where to look.

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- Click for a [free Digital Data Viewer](#) from the USGS.

What can TIPS software do for me? [Tell me!](#)

Other useful resources? [Show me!](#)

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## Aerial Photographs

Aerial Photographs are also called **Digital Orthophoto Quads (DOQ)** or **Digital Orthophoto Quarter Quadrangles (DOQQ)**

### What is a DOQ/DOQQ?

A digital orthophoto is a digital image of an aerial photograph in which displacements caused by the camera and the terrain have been removed (orthorectified).

It is a computer generated image that combines the image characteristics of a photograph with the geometric qualities of a map. It is a photographic map.

Note: DOQ/DOQQ coverage is not available for all areas in the United States.



Applications include:

- vegetation and timber management
- routing and habitat analysis
- environmental impact assessments
- flood analysis
- soil erosion assessment
- ground-water and watershed analysis
- revising topographic maps
- as a cartographic base for thematic map layers

### Obtaining Aerial Photographs and Digital Orthophoto Quads

- [NRCS Data Gateway](#)
- [Available Data](#)
- [National Map Viewer](#)
- [TerraServer](#)
- [National Atlas](#)
- [More Ways to View USGS Maps and Aerial Photo Images Online](#)
- [USGS PhotoFinder](#)
- [Quick Guide to using NRCS Data Gateway Overview](#)
- [Quick Guide to using NRCS Data Gateway Toolbar](#)
- [Quick Guide to using the National Map Viewer](#)
- [Quick Guide to using the TerraServer](#)
- [Quick Guide to using the National Atlas](#)

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Quick description

Link to additional information

Potential applications

Where to find it!

along with Quick Guides

Free viewer

# Back on the Data Miner main page

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## State Spatial Data Clearinghouses Geographic Information Systems (GIS) Information

*Note: there are many others besides those listed here*

### **Western Region**

[Montana](#)  
[North Dakota](#)  
[Wyoming](#)  
[Utah](#)  
[Colorado](#)  
[Arizona](#)  
[New Mexico](#)  
[Washington](#)  
[Alaska](#)

### **Mid-Continent Region**

[Kansas](#)  
[Oklahoma](#)  
[Texas](#)  
[Iowa](#)  
[Missouri](#)  
[Arkansas](#)  
[Louisiana](#)  
[Illinois](#)  
[Indiana](#)  
[Mississippi](#)  
[Alabama](#)

### **Appalachian Region**

[Ohio](#)  
[Kentucky](#)  
[Tennessee](#)  
[Pennsylvania](#)  
[West Virginia](#)  
[Virginia](#)  
[Maryland](#)

[The State I need isn't listed](#)

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## List of TIPS core software and major capabilities

### What can TIPS Software do for me?

TIPS suite of core software helps the engineering and technical professional do their jobs more efficiently, effectively, and accurately.

- [List of TIPS core software and major capabilities](#) ←
- [Some specific tasks that TIPS software can help with](#)
- [Primary Software Contacts for Employees by Region](#)

- Create base imagery for inclusion to a GIS

Image Analysis for ArcGIS

- Prepare and import imagery into ArcGIS
- GIS image interpretation

Stereo Analyst for ArcGIS

- Adds additional image viewing to ArcGIS

Pathfinder Office

- Interpret, correlate, plot GPS data

TerraSync

- GIS mobile computing when linked with PC and GPS
- Locate, map, survey on-site locations or entities.

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## Other Useful Resources

### Mineral Resources

- [U.S. Coal Resource Databases](#)
- [Mineral Resources Spatial Data](#)
- [GeoCommunicator](#)

### Soil Science

- [NRCS Soils Website](#)
- [Soil Series Extent Mapping Tool](#)
- [Web Soil Survey](#)
- [Soil Data Mart](#)

### Water Science

- [National Hydrography Dataset](#)
- [NOAA Satellite and Information Service NCDC GIS Portal](#)
- [US Climate Mapping](#)
- [Water Quality](#)
- [Water Quality Mapping](#)
- [Wetlands Online Mapper](#)

### Biological Science

- [Plants Database](#)
- [U.S. National Arboretum](#)
- [Ecological Sciences Tools and Documents](#)

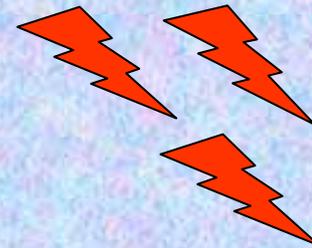
### Many, Many, Many More Topics

- [Earth Resources Observation and Science \(EROS\)](#)
- [Land Cover Data to your hearts content](#)
- [GISDATA Map Studio](#)
- [Geographic Glossary and Tutorials](#)

# The Data Miner is Dynamic and Evolving

- TIPS solicits input from SMCRA professionals all around the country
- We incorporate many of these new ideas into the Data Miner

*Let's See the Data Miner in Action*



# First.... Some Success Stories

“ I poked around in Data Miner a bit. *It's a great idea*, and looks like a good compilation with a lot of sources....*I would like to see it succeed.* “

“ It will be *a great resource for us* - especially for folks getting started with GIS. “

“ This morning, Jay asked me to help find some photography for an ancient vertical shaft in SW Virginia. He had a rough idea of where and a topo map... *In about a minute, Jay had* installed DLG32, opened the photo from Seamless and had linked to Terraserver and *downloaded and overlaid the same 2 topos he had in hardcopy.* “

# Data Miner Demonstration

