Appendix A

Preliminary Research Results into Other Agencies Serving Water Resource Data on the Web Name: PAG (Pima Association of Governments) Regional Data

Center

Location: PAG: City of Tucson, Arizona

Purpose: Serves as a regional data clearinghouse

URL: http://www.pagnet.org

General Structure

Layout: Simple

Search Capabilities: No text searches for data

Languages Used: HTML and JAVA

Data Types: GIS ready data files

Data Sets: US Census TIGER data, Orthophotos from 16 feet to 1 foot,

Multispectral data at 1 meter, parcel data, road data

Viewing Method: ArcIMS application

Download Method: FTP

Download Format: Zip file

Database Type: Warehouse/Distributed

ArcIMS Capable: Yes

IMS Data Served: Air quality application, orthophoto application, population

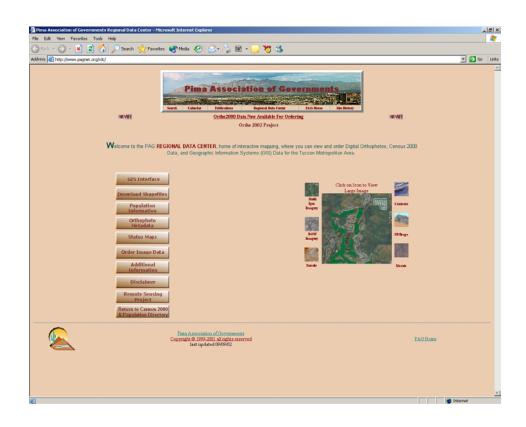
planning application

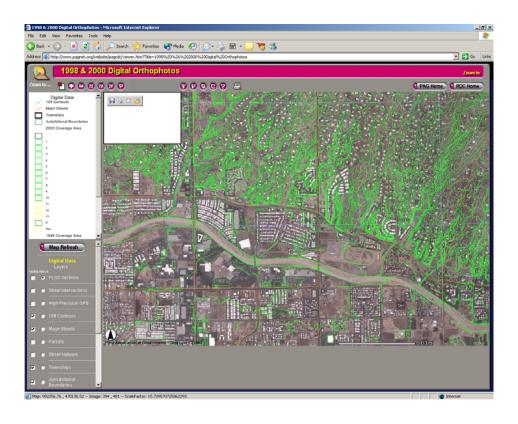
Online Databases: Possible links using ArcIMS

Metadata: Basic metadata available for all data layers

Other: Orthophotos available on CD for a fee, Air Quality links point

to outside site





Name: PDNMAPA (Paso Del Norte Maps for Public Access)

Location: UTEP, El Paso, Tx

Purpose: Serves as a regional data clearinghouse

URL: http://www.pdnmapa.org

General Structure

Layout: Simple

Search Capabilities: Menu driven search capabilities, no free text

Languages Used: HTML and JAVA

Data Types: GIS ready data files

Data Sets: Aerial photography, parcel features, street features, misc. data

layers

Viewing Method: ArcIMS application, selected static maps

Download Method: FTP

Download Format: Zip file, static maps in image format

Database Type: Warehouse/Distributed

ArcIMS Capable: Yes

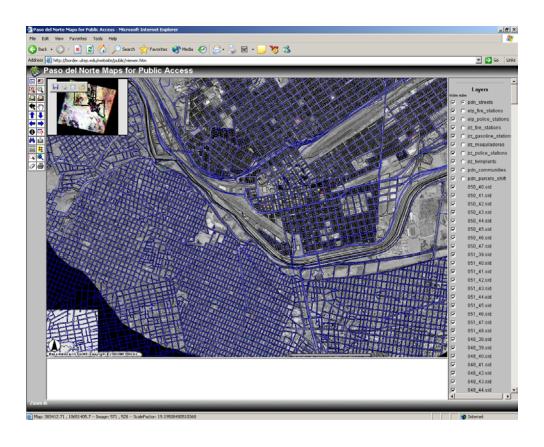
IMS Data Served: Aerial photography, parcel features, street features, misc. data

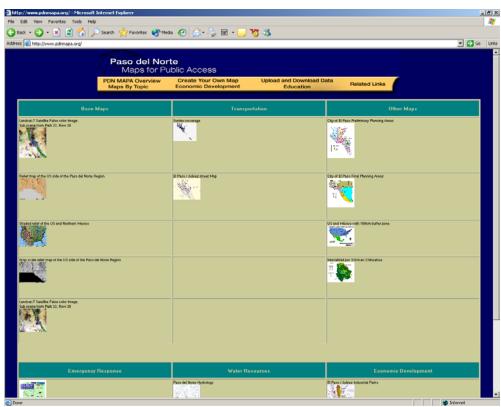
layers

Online Databases: None

Metadata: None

Other: None





Name: RGIS (Resource Geographic Information System)

Location: University of New Mexico, Albuquerque Purpose: Serves as State GIS Clearinghouse

URL: http://rgis.unm.edu

General Structure

Layout: Simple

Search Capabilities: Data searches by text and extent¹

Languages Used: HTML and JAVA

Data Types: Tabular and GIS ready data files

Data Sets: US Census TIGER data, GNIS data, USGS DEMs and DOQQs,

USGS DRGs, and County E-911 road data.

Viewing Method: Snapshot of data in an image format

Download Method: FTP

Download Format: Zip file

Database Type: Warehouse

ArcIMS Capable: Yes

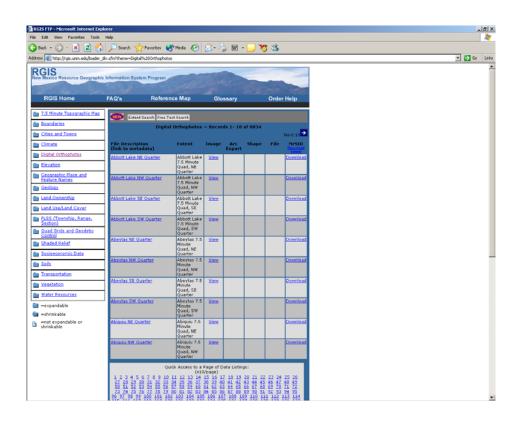
IMS Data Served: Reference data only, simple design

Online Databases: None

Metadata: Extensive FGDC metadata for all data layers

Other: Data available on CD for a fee

¹ Geographical extent defines data layers using a keyword. There is no actual selection process using coordinates or interactive selection methods.



Name: SANDAG (San Diego Association of Governments)

Location: SANDAG, San Diego, CA

Purpose: Serves as a regional data clearinghouse

URL: http://www.sandag.org

General Structure

Layout: Simple

Search Capabilities: No text searches for data

Languages Used: HTML and JAVA

Data Types: GIS ready data files

Data Sets: Administrative boundaries, base map features, district

boundaries, land cover and activity centers, transportation, and

environmental/natural resources

Viewing Method: Static map in image format

Download Method: FTP

Download Format: Zip file

Database Type: Warehouse/Distributed

ArcIMS Capable: Yes

IMS Data Served: Demographic and Economic Mapping System, Industrial

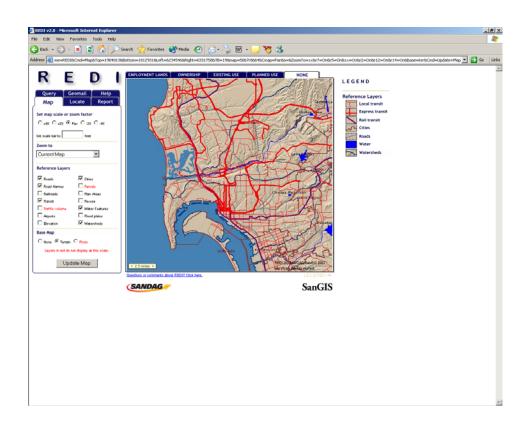
Cluster Applications, Traffic Forecast Application, eStops,

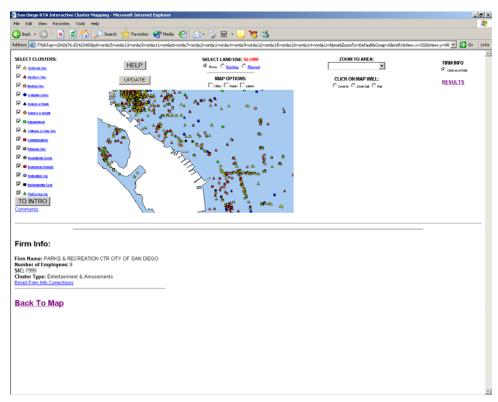
Regional Economic Development Information

Online Databases: Possible links using ArcIMS

Metadata: Basic metadata available for all data layers

Other:





Name: TCEQ (Texas Commission on Environmental Quality)

Location: TCEQ Austin

Purpose: Serves as a source of environmental data

URL: http://www.tceq.state.tx.us

General Structure

Layout: Simple

Search Capabilities: Limited text search, online queries for some databases

Languages Used: HTML

Data Types: Tabular data sets only

Data Sets: Environmental data, water quality, permitting data, cleanup

data, real-time pollution data, weather data and live satellite

images

Viewing Method: Snapshot of data in an image format, published GIS maps,

tables in HTML format

Download Method: FTP where possible

Download Format: Zip file, (Excel spreadsheets)

Database Type: Warehouse

ArcIMS Capable: Yes

IMS Data Served: Limited water quality data

Online Databases: Numerous

Other: Data (tabular, reports) available in hard copy for fee

Online Database Example

Name: Water Utilities Database (WUD)

Query Options: Water district name, water district number, water utility name,

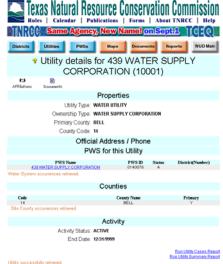
CCN registration number, public water system name or ID

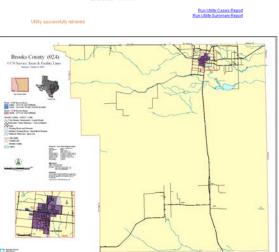
Data Available: Maps in PDF format, tables in HTML format, water district and

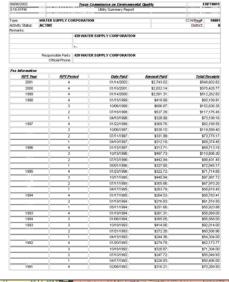
system reports, etc.

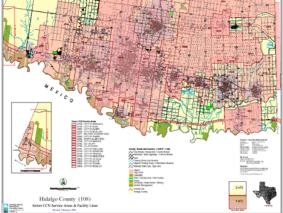
Download Method: Not available

Sample Pages









Name: TNRIS (Texas Natural Resources Information System)

Location: TNRIS Austin, Tx

Purpose: Serves as a state clearinghouse for natural resource data

and imagery

URL: http://www.tnris.state.tx.us

General Structure

Layout: Simple

Search Capabilities: Searches available for imagery by text (county name, quad

name, and lat-long)

Languages Used: HTML and JAVA

Data Types: GIS ready data files

Data Sets: US Census TIGER data, Orthophotos, Colonias locations,

general hydrography, irrigation canals, DRGs, transportation

features.

Viewing Method: ArcIMS applications

Download Method: Download data by county using ArcIMS (FTP), FTP service

available

Download Format: Zip file

Database Type: Warehouse/Distributed

ArcIMS Capable: Yes

IMS Data Served: DOQQ applications, environmental applications, bay water

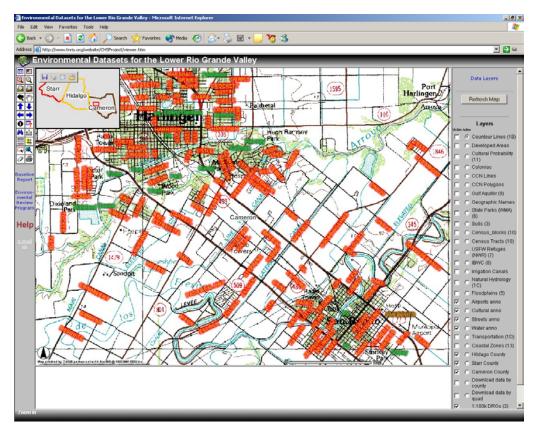
applications (sea-level and salinity)

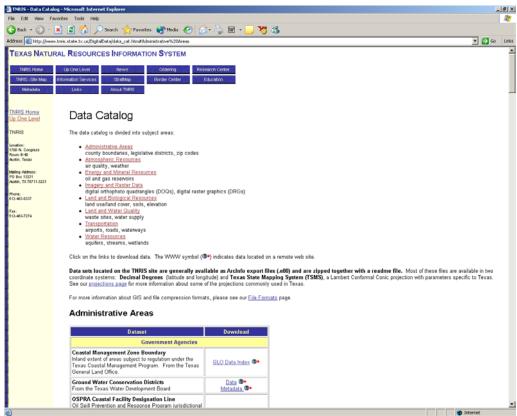
Online Databases: None

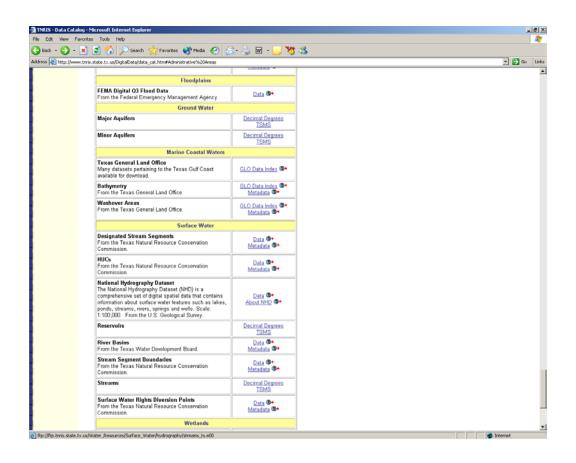
Metadata: Basic metadata available for all data layers

Other: Orthophotos and data available on CD for a fee, Air Quality

links point to outside site, links to additional data outside site







Name: TWDB (Texas Water Development Board)

Location: TWDB

Purpose: Serves as a national clearinghouse for well locations and

reservoir water levels

URL: http://www.twdb.state.tx.us/data/waterwells/

General Structure

Layout: Simple

Search Capabilities: No text searches for data

Languages Used: HTML and JAVA

Data Types: HTML tables and graphs, text tables

Data Sets: Well location/reservoir water levels

Viewing Method: Interactive Image Maps

Download Method: N/A

Download Format: Tab delimited text files

Database Type: Distributed (Links to the USGS well data)

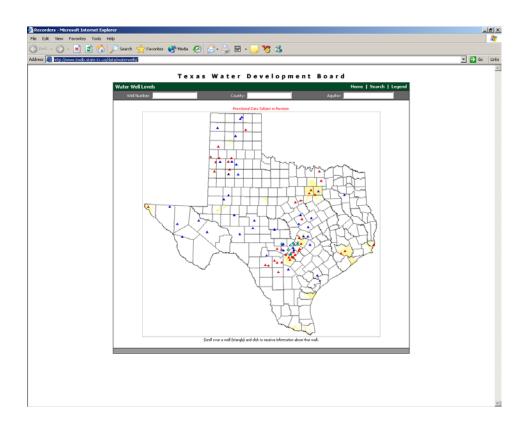
ArcIMS Capable: No

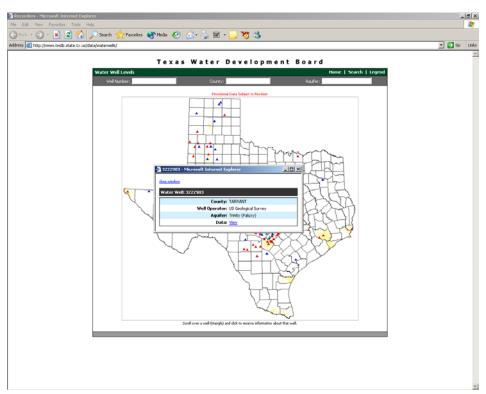
IMS Data Served: N/A

Online Databases: TWDB well level information

Metadata: N/A

Other:





Name: USGS (United States Geological Survey)

Location: USGS

Purpose: Serves as a national clearinghouse for water flow data

URL: http://water.usgs.gov/waterwatch/

General Structure

Layout: Simple

Search Capabilities: No text searches for data

Languages Used: HTML and JAVA

Data Types: HTML tables and graphs

Data Sets: Stream flow data including real-time, daily, 7-day and below

normal.

Viewing Method: Image maps

Download Method: N/A

Download Format: Tab delimited text files

Database Type: Warehouse

ArcIMS Capable: No

IMS Data Served: N/A

Online Databases: Stream flow data is linked

Metadata: N/A

Other:

