

Online GIS Database Systems

DBS&A provides web-accessible, GIS-based database management systems for a wide range of water resources, natural resources, and scientific applications. Digitally managing assets saves time and money by streamlining administrative processes and improving data accuracy.

Our systems allow local, state, and federal agencies to integrate disparate data sources for analysis. Features include:

- ◆ Log-in functionality with tiered security access
- ◆ Online user accounts
- ◆ Automated forms
- ◆ Automated data submittals
- ◆ Scanned document linking
- ◆ GIS mapping interface

“ [DBS&A] provided outstanding updates of progress and timely input and recommendations on issues that arose through the database development. Their product (DBMS) was of good quality and the contractor provided changes to the operating system to support full functionality of the DBMS as industry technology changed.”

~ Susan Bittick
Collaborative Program Manager
Albuquerque District
U.S. Army Corps of Engineers

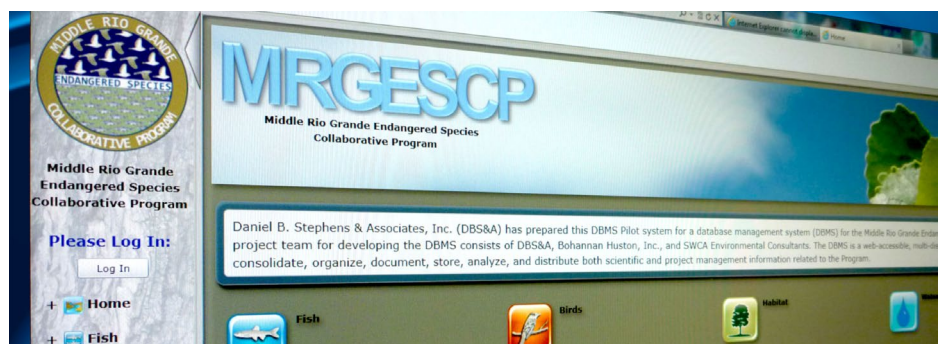
Custom Applications

Custom data applications make it easy for organizations to manage and use data based on their unique needs. DBS&A offers high-level web-development capabilities. We assist our clients in managing, developing, or enhancing their data on the web. Our employee-owners include application developers and programmers who create GIS-enabled web and desktop software products that automate tasks and enhance user productivity.

Our programs are created using industry-standard methodologies, such as relational database designs, best-practice normalization techniques, and abstraction layers to provide manageable and scalable solutions for our clients.

In support of our web and application development products, we design and build custom, secure environments. Customized computer services and application development technologies include:

- ◆ Microsoft .NET Framework, a platform for building robust, secure, and expandable applications
- ◆ Enterprise-level servers and storage area networks (SANs)
- ◆ Virtualization (e.g., VMWare, Hyper-V) to accommodate multiple operating systems running concurrently on a host computer



DBS&A's custom applications enable remote users to efficiently access, manage, manipulate, map, and interpret vast amounts of data. Our applications combine standard industry software with a customized, user-friendly interface that improves collaboration within the work group and facilitates effective project management and oversight, resulting in time and cost savings.



Daniel B. Stephens & Associates, Inc.

www.dbstephens.com

Live examples of DBS&A's current online projects include:

<http://ntgcd.dbstephens.com/> and <http://mrgescp.dbstephens.com>

Geographic Information Systems Data Management

GIS is a system of computer software, hardware, and procedures that is particularly useful for managing large amounts of data associated with infrastructure assets, complex site investigations, and large-scale water resources studies. GIS brings together all of the data into a coherent whole and allows cost-effective and efficient data management querying, analysis, and presentation.

Historical data—in the form of applications, reports, tables, boring logs, and cross sections—are often generated by numerous entities over years and even decades. Organizing and analyzing this disparate information is a daunting task. DBS&A routinely imports and integrates these historical data sets into our data management system, allowing our clients to effectively organize and analyze the past to manage and plan for the future.

DBS&A's scientists and in-house programmers cooperatively developed a web-based tool that enables remote users to efficiently access, manage, manipulate, map, and interpret vast amounts of data. The customized, user-friendly interface uses standard industry software and improves collaboration within the work group, and facilitates effective project management and oversight, resulting in time and cost savings.

DBS&A has maintained state-of-the-art GIS and database development capabilities since 1996. As a business partner with ESRI, DBS&A is identified as a leader in GIS capabilities in the West. Our team members design comprehensive GIS for hundreds of water resources, engineering, and litigation support projects and develop stand-alone systems for various local, state, federal, and tribal government agencies. We routinely utilize ArcGIS, ArcGIS Server, and ArcGIS Online for our applications.

Northern Trinity Groundwater Conservation District's online well registration database and online mapping application and geodatabase allows public access to well registration and drilling forms and applications in a web-based environment.

