

Abstract

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GIS Tools for a Small Groundwater Management District

Track: Water Resources

Author(s): Stephen Densmore, Barbara DuFrain

In Texas there has been a proliferation of small groundwater districts created to manage the groundwater resources of the state. One such district is the Lost Pines Groundwater Conservation District in central Texas. The district, with a staff of two with no GIS expertise and a budget of less than \$250,000, can now produce maps showing water levels, distribution of wells by type and use, information on wells in a given area and other permitting needs as needed. The paper will present some of the tools and concepts developed by the district and its consultants to aid in the management of the water resources in this small two county district. The paper will show how the use of buttons and selective views and projects eliminated the need to have a GIS expert on staff. The paper will also discuss future needs of the district and a possible solution that would use GIS.

Stephen Densmore

Densmore and DuFrain Consulting

407 Old Lexington Rd

Elgin , TX 78621

USA

Phone: 5122814877

Fax: 5122814877

E-mail: estdee@totalaccess.net

Barbara DuFrain

Densmore and DuFrain Consultanting

407 Old Lexington Rd

Elgin 78621

USA

Phone: 5122814877

Fax: 5122814877

E-mail: barbarad@totalaccess.net