# South Platte Mapping and Analysis Program (SPMAP)

Luis A. Garcia
Integrated Decision Support Group (IDS), Colorado State University, Fort Collins, CO

**Abstract.** The South Platte Mapping and Analysis Project (SPMAP) was created to address the data and tool development needs of water user groups in the Lower South Platte River Basin from below Denver to the state border. One of the primary functions of this project is to provide the tools needed by water user organizations to estimate agricultural demands on groundwater wells that require augmentation and to assist other water management objectives. To develop a consensus on the tasks needed for this project an advisory committee was formed. The committee is comprised of representatives from the Northern Colorado Water Conservancy District (NCWCD), the South Platte Lower River Group, Inc. (SPLRG), the Colorado State Engineers Office (SEO), Groundwater Appropriators of the South Platte (GASP), the Central Colorado Water Conservancy District (CCWCD), Lower South Platte Water Conservancy District (LSPWCD), City of Greeley (Greeley), and City of Fort Collins (Fort Collins). This committee meets regularly to determine approaches and tasks needed and to evaluate the software being developed.

As part of this project, three main components have been identified for tool and/or data development. These components are collectively called the South Platte Mapping and Analysis Program (SPMAP). The ArcView Geographic Information System component (SPGIS) contains spatial data assembled for this project and can be used to develop input files for the South Platte Consumptive Use (SPCU) Model, which in turn can be used to develop input for a Stream Depletion Factor interface (SDF View).
Data and tools developed as part of this project are in direct response to the needs expressed by water providers in the basin and are currently being used to meet the modeling and data needs of the eight water user groups. All the documentation and software is available at the Integrated Decision Support Group website, subject to the approval of the advisory board:

http://www.ids.colostate.edu/projects/spmap