

## The Kansas Satellite Image Database (KSID): 2000-2003 Landsat Imagery

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### Project Objective

The **Kansas Satellite Image Database (KSID)** is the state's first publicly available statewide image archive. All products in the archive are freely available, on a county-by-county basis, through the state's online Database Access and Support Center (DASC).

KSID has been developed to provide federal, state, and local government and non-government entities and citizens of the state with a publicly available resource for creating a source for creating up-to-date maps for decision support and management.

A unique feature of KSID is that it provides multiple dates of imagery during a single year. Thus, in addition to supporting numerous basic mapping applications, KSID enable a variety of multi-seasonal analyses to be made that would not otherwise be possible.

### Applications

- Land cover mapping
- Change Detection
- Visual aids
- Environmental modeling
- Emergency response & planning
- Agricultural monitoring

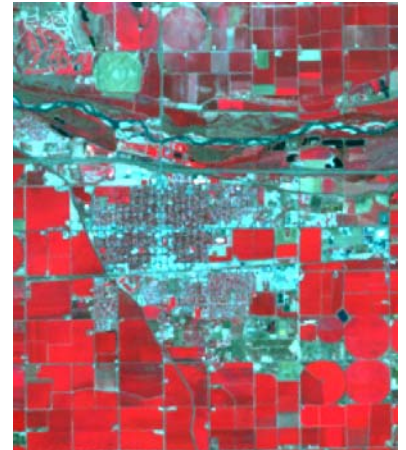
Various agencies have used KSID to support projects in Kansas. Most recently, the USDA Natural Resources Conservation Service (NRCS) used KSID to help assess priority areas to be considered for areas for inclusion into the Environmental Quality Incentives Program (EQIP). The Division of Water Resources of the Department of Agriculture used KSID to map potentially unpermitted dams in Kansas.

### Significance for the State of Kansas

- KSID provides agencies with capabilities for statewide monitoring of natural resources and long-term trends, providing valuable savings of time and effort for field personnel.
- KSID provides a basis for easily and rapidly updating the state land cover map, one of the core databases maintained by the GIS Policy Board.
- KSID enables "rapid look" applications in pre- and post- emergency planning for flood management and range control that would not otherwise be possible from the ground.
- Funding for KSID has directly benefited the citizens of Kansas by providing free and easily accessible remote sensing products for application in natural resource management.



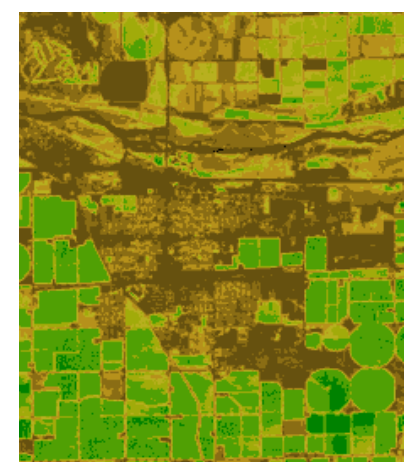
a.



b.



c.



d.

Four products created from the Kansas Satellite Image Database: a) 15 meter panchromatic band, b) false-color composite (bands 4, 3, and 2), c) resolution-enhanced natural color composite (pan merged with multispectral bands 3, 2, and 1), and d) vegetation greenness map.