

# Future Information Needs

The Black Hills Hydrology Study has provided an abundance of information regarding the hydrology of the Black Hills area. Future information needs also are apparent, which may include, but are not necessarily limited to, the following:

- Continued collection of hydrologic data
- Additional aquifer testing for better definition of aquifer properties and interactions between aquifers
- Additional study of vertical hydraulic head gradients, especially in the context of interactions between the Madison and Minnelusa aquifers, and possible hydraulic head differences within the Minnelusa aquifer
- Additional sampling for stable isotopes (oxygen and hydrogen), tritium, and other age-dating constituents such as chlorofluorocarbons
- Additional ground-water sampling in areas with high potential for contamination
- Additional studies of the Precambrian, Deadwood, Minnekahta, and Inyan Kara aquifers
- More detailed geologic information, which has numerous hydrologic applications

Photograph by South Dakota Tourism

