## **Available Data**

105°00' The USGS, in cooperation with Federal, State, and local agencies, has (94) 46°30° been monitoring streamflow and stream-water quality in the Powder River Basin for more than a century. The number and location of sites where Miles City [ streamflow and water quality have been monitored have changed over time as various study objectives, land-use patterns, and available funding have Mizpah varied. A summary of the historical period of record for streamflow-gaging stations and the number of historical SAR analyses for water-quality sites 105°30 in the Powder River Basin through water year 2000 is shown in figure 2 and table 1. Readers should be aware that there could be gaps in the 46°00' 46°00° records at streamflow-gaging stations. Therefore, an entry in table 1 that indicates operation from 1921-1950 may or may not correspond to a continuous 30-year record of streamflow at that site. The streamflow-Custer County gaging station with the longest continuous record (78 years) is Piney Carter Powder River **√**63 Powderville Creek at Kearny, Wyo. (site 51). The water-quality monitoring site with County County the greatest number of SAR values measured (498) is Powder River near Locate, Mont. (site 68). Because monitoring needs are changing quickly as CBM production proceeds, there are additional monitoring sites in 45°30' the Powder River Basin that have been added since water year 2000 45°30' Broadus that may not be shown in figure 2 and table 1. Readers interested in examining the available data for any of 106°00' the sites listed in table 1 are referred to the USGS Internet database. This database, which houses data from about 21,200 streamflow-gaging stations and water-quality data from about 338,000 sites nationwide, can be accessed at URL (59 http://water.usgs.gov/nwis/. Moorhead **MONTANA** 45°00' **WYOMING** 105°00′ 106°30 56 Campbell County Sheridan **MONTANA** Miles County Powder City River Helena 52 structural 43 Ucros basin 44°30′ 44°30′ 38 Buffalo 40 41 Buffalo Powder IGHO River drainage . ∳Gillette **WYOMING** basin RΝ 105°30′ Cheyenne ... MOUNTAINS **L**10 44°00' **INDEX MAP** Johnson County **EXPLANATION** ▲<sup>19</sup> Streamflow-gaging station and reference number--Susse Color of symbol represents <u></u>18 number of years of record Fewer than 10 43°30 10 - 5043°30′ Midwest More than 50 ▼<sup>18</sup> Stream-water-quality Natrona Cour sampling site and 20 30 40 MILES 87 reference number--Color of symbol represents 40 KILOMETERS 10 20 30 number of SAR analyses Fewer than 10 106°00' Base modified from Digital Chart of the World 106°30 10 - 50digital data, 1:1,000,000, 1993 43°00 Albers Equal-area Conic projection More than 50 Standard parallels 43°00' and 47°00', 107°00' central meridian -106°00'

Figure 2. Location of streamflow-gaging stations and stream-water-quality sites in the Powder River Basin, Wyoming and Montana.