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U.S. Geological Survey

# **Hydrologic Conditions and Budgets for the Black Hills of South Dakota, Through Water Year 1998**

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Water-Resources Investigations Report 01-4226

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and the West Dakota Water Development District

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## CONVERSION FACTORS AND VERTICAL DATUM

	<b>Multiply</b>	<b>By</b>	<b>To obtain</b>
		<b>Metric</b>	
	acre	4,047	square meter
	acre	0.4047	hectare
	acre-foot (acre-ft)	1,233	cubic meter
	acre-foot (acre-ft)	0.001233	cubic hectometer
	acre-foot per year (acre-ft/yr)	1,233	cubic meter per year
	cubic foot (ft <sup>3</sup> )	28.32	cubic decimeter
	cubic foot (ft <sup>3</sup> )	0.02832	cubic meter
	cubic foot per second (ft <sup>3</sup> /s)	0.02832	cubic meter per second
	foot (ft)	0.3048	meter
	inch (in.)	2.54	centimeter
	inch (in.)	25.4	millimeter
	mile (mi)	1.609	kilometer
	square foot (ft <sup>2</sup> )	0.09290	square meter
	square mile (mi <sup>2</sup> )	2.590	square kilometer
		<b>Other</b>	
	cubic foot per second (ft <sup>3</sup> /s)	1.9835	acre-foot per day

**Sea level:** In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

**Water year:** Water year is the 12-month period, October 1 through September 30, and is designated by the calendar year in which it ends. Thus, the water year ending September 30, 1998, is called the "1998 water year."