The Souris, or Mouse, River originates in the Yellow Grass Marshes north of Weyburn, Saskatchewan, Canada, and flows southeast, crossing the northern boundary of North Dakota west of Sherwood. It then forms a loop and flows back north, entering Manitoba near Westhope. The river eventually flows into the Assiniboine River near Brandon, Manitoba.

To view gaging station data click on the station of interest on the map or from the list below.