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## Hydrologic, Sediment, and Biological Data Associated with Irrigation Drainage in the Middle Green River Basin, Utah and Colorado, Water Years 1991-2000.

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**Abstract :** Hydrologic, sediment, and biological data were collected in the middle Green River basin in eastern Utah from 1991 to 2000 in an effort to monitor the effects of irrigation

drainage on wetland areas and streams, aid in the development of remediation plans, and evaluate the effectiveness of selenium remediation efforts at Stewart Lake Waterfowl Management Area (WMA). Data consist primarily of selenium concentrations in surface water, ground water, bottom sediment, and biological samples. Supporting hydrologic data include field measurements of temperature, pH, specific conductance, water levels in wells, and discharge at surface-water sites. Selected water samples also were analyzed for major ions, trace elements, nutrients, and gross alpha and beta radiation. The concentration of selected selenium species is reported for several bottom-sediment samples from Stewart Lake WMA and the concentration of total selenium in suspended-sediment samples from the area are included. Well logs for six wells installed at Stewart Lake WMA are presented along with trace-element data for several biological samples collected at selected sites throughout the middle Green River basin.

**Descriptors :** \*DATA ACQUISITION , \*BASINS(GEOGRAPHIC) , HYDROLOGY , TABLES(DATA) , SEDIMENTS , COLORADO , UTAH , IRRIGATION SYSTEMS , CONCENTRATION(CHEMISTRY) , WASTE TREATMENT , WATER QUALITY , DRAINAGE

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