



Water-Data Report NE-2005

4227580984851 ELKHORN RIVER BELOW HOLT CREEK SW OF EMMET, NE

PLATTE RIVER BASIN

LOCATION.--Lat 42°27'58", long 98°48'51", in SW ¼ SW ¼ sec.23, T.29 N., R.13 W., Holt County, Hydrologic Unit 10220001, at north-south county road bridge 0.8 mi southwest of Emmet, and 0.6 mi downstream from Holt Creek.

DRAINAGE AREA.--Unknown

WATER-DISCHARGE AND HYDRAULIC HEAD DIFFERENCE RECORDS

REMARKS.--Measurements of streamflow discharge during base flow, and concurrent differences in hydraulic head between stream and alluvial aquifer as measured by potentiomanometer. Hydraulic heads are for specified locations in channel cross section and are from static water level in stream and ground-water level in temporary piezometer set at specified depth below stream bed. Differences computed as stream head minus aquifer head, with negative numbers indicating discharge from aquifer to stream and positive numbers indicating the reverse.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**

Date	Discharge, in ft ³ /s	Gage height, in ft
May 9, 2005	155	---
Jul 18, 2005	39.8	---
Sep 19, 2005	18.8	---

**HYDRAULIC HEAD DIFFERENCES BETWEEN STREAM AND ALLUVIAL AQUIFER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**

[lew, left edge of water; rew, right edge of water; negative head differences indicate ground water discharging into stream]

Date	Station location		Cross-section stationing, in feet	Remarks	Piezometer depth below stream bed, in meters	Hydraulic head differences, in millimeters
	Latitude	Longitude				
May 9, 2005			0	lew	---	---
			12		0.6	-32
			20		0.6	-3
			26	check	0.6	148
			26		0.6	150
			32		0.6	-9
			40	rew	0.6	-10
			47		---	---
Jul 18, 2005	42°27'58.1"	98°48'48.0"	47.5	lew	---	---
			42		0.6	-2
			36	0.6	-6	
			30	0.6	8	
			24	0.6	-3	
			18	0.6	-6	
			10	0.6	-6	
			0	rew	---	---
Sep 19, 2005	42°27'58.0"	98°48'49.0"	47	lew	---	---
			40		0.6	2
			31	0.6	-5	
			22	0.6	-2	
			13	0.6	-38	
			5	0.6	-20	
			1	rew	---	---