



Water-Data Report NE-2005

4214540981849 ELKHORN RIVER NR EWING, NE

PLATTE RIVER BASIN

LOCATION.--Lat 42°14'54", long 98°18'49", in NE ¼ NW ¼ sec.12, T.26 N., R.9 W., Holt County, Hydrologic Unit 10220001, at east-west county road bridge, 1.8 mi southeast of Ewing, and 1.0 mi downstream from South Fork Elkhorn River.

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 10, 2005	281	---
Jul 19, 2005	115	---
Sep 20, 2005	75.7	---

**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 10, 2005			118	lew	---	---
			110		0.6	12
			90		0.6	7
			75		0.6	-34
			60		0.6	5
			40		0.6	4
			20		0.6	7
			1		---	---
Jul 19, 2005	42°14'52.5"	98°18'47.5"	100	lew	---	---
			90		0.6	-2
			75		0.4	12
			65		0.6	12
			50		0.6	17
			30		0.6	-3
			12		0.6	-2
			0		---	---
Sep 20, 2005	42°14'52.5"	98°18'47.5"	69	lew	---	---
			60		0.6	1
			48		0.6	0
			36		0.6	6
			24		0.6	-2
			10		0.6	-4
			0		---	---
					rew	---