

Low-Flow Investigations

LOW-FLOW INVESTIGATIONS
Low-flow Investigations in Minnesota River Basin

Discharge measurements and estimates of flow below were made for a seepage study of the Minnesota River Basin from Jordan, MN to the mouth. Base flow conditions for the period of Sept. 8-9 were excellent. The most recent rainfalls of significance were on Aug. 20 with amounts of 0.10 to 0.20 inches being typical. Prior to that no significant rainfall events occurred until about Aug. 2-3.

Stream name and [Station no.]	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Minnesota River Basin						
Minnesota River near Jordan (05330000)	Mississippi River	Lat 44°41'35", long 93°38'30", in NW1/4 SW1/4 sec. 7, T.114 N., R.23 W., Carver County, Hydrologic Unit 07020012, on right bank 100 ft downstream from bridge on Scott County Highway 9, 1.5 mile north west of Jordan, and at mile 39.4 upstream from Mississippi River.	a 16,200	1934- current year #	09-08-03	547
Minnesota River below Carver Rap- ids near Carver (05330050)	Mississippi River	Lat 44°44'19", long 93°37'51", in NW1/4 NW1/4 SE1/4 sec.30, T.115 N., R.23 W., Carver County, Hydrologic Unit 07020012, 0.9 mile below Carver Rapids, 1.7 miles south west of Carver.	--	--	09-08-03	569
Sand Creek at U.S. Hwy. 169 in Jordan (05330610)	Minnesota River	Lat 44°40'20", long 93°38'06", in SE1/4 NE1/4 NW1/4 sec. 19, T.114 N., R.23 W., Scott County, Hydro- logic 07020012, at U.S. Highway 169, above sewage treatment plant in Jordan (2003, measured 300 ft below U.S. Hwy 169).	--	1936, 1960, 1966, 1968, 1985, 1987, 1988	09-08-03	e0.6
Sand Creek below WWTP near Jordan (05330614)	Minnesota River	Lat 44°41'22", long 93°36'42", in SW1/4 SW1/4 SE1/4 sec. 8, T.114 N., R.23 W., Scott County, Hydrologic Unit 07020012, below Waste Water Treatment Plant, at Lynville Drive in Jordan.	--	--	09-08-03	e <0.1
Sand Creek Trib. at U.S. Hwy. 169 near Jordan (05330617)	Sand Creek	Lat 44°43'47", long 93°35'15", in SW1/4 NE1/4 NE1/4 sec. 33, T.115 N., R.23 W., Scott County, Hydro- logic Unit 07020012, at culvert on U.S. Highway 169, 0.2 mile south County Road 14, north of Jordan.	--	--	09-08-03	e0.02
Carver Creek near Carver (05330650)	Minnesota River	Lat 44°45'01", long 93°39'00", in SW1/4 SE1/4 sec. 24, T.115 N., R.24 W., Carver County, Hydrologic Unit 07020012, at bridge on County Road 40, 1.5 miles above mouth and 1.5 miles southwest of Carver, at MWCC gage, (2003 measured 0.35 miles below bridge).	--	1968-72, 1988	09-08-03	2.75
Minnesota River Trib. at mouth in Carver (05330670)	Minnesota River	Lat 44°45'44", long 93°37'29", in NE1/4 NE1/4 NE1/4 sec. 19, T.115 N., R.23 W., Carver County, Hydro- logic unit 07020012, below culvert on County Road 40, 0.1 mile above mouth, in Carver (2003 measured 100 ft below culvert on Co. Rd. 40).	--	1968	09-08-03	0.41
Minnesota River above Chaska Creek near Chaska (05330680)	Mississippi River	Lat 44°46'40", long 93°35'42", in SW1/4 SE1/4 SW1/4 sec. 9, T.115 N., R.23 W., Scott County, Hydrologic Unit 07020012, 0.4 mile above State Highway 41, 2 miles below mouth of Carver Creek, 0.4 mile south east of Chaska (2003 measured 0.1 mile above site).	--	1998	09-08-03	593

DISCHARGE AT LOW-FLOW SITES--Continued

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Stream name and [Station no.]	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Chaska Creek at mouth in Chaska (05330701)	Minnesota River	Lat 44°46'54", long 93°36'05", in NW1/4 SW1/4 sec. 9, T.115 N., R.23 W., Carver County, Hydrologic Unit 07020012, at mouth below U.S. High- way 212, 0.1 mile above mouth, in Chaska (2003 measured 300 feet above downstream end of causeway, 0.45 mile above mouth).	--	1968, 1979	09-08-03	0.5
East Chaska Creek at U.S. Hwy. 212 in Chaska (05330706)	Minnesota River	Lat 44°47'28", long 93°35'52", in SE1/4 SW1/4 SW1/4 sec. 4, T.115 N., R.23 W., Carver County, Hydrologic Unit 07020012, at bridge on U.S. Highway 212 in Chaska, 1 mile upstream from mouth (2003 measured 500 ft above U.S. Highway 212).	--	1979-80	09-08-03	0.0
East Chaska Creek bypass at U.S. Hwy. 212 in Chaska (05330708)	Minnesota River	Lat 44°48'05', long 93°34'52", in SW1/4 NW1/4 NW1/4 sec. 3, T.115 N., R.23 W., Carver County, Hydrologic Unit 07020012, at U.S. Hwy 212 near Old Audubon Road, in northeast side of Chaska.	--	--	09-08-03	e 0.2
Minnesota River below Nyssens Lake outlet in Shakopee (05330710)	Minnesota River	Lat 44°47'44", long 93°32'51", in SE1/4 NW1/4 SE1/4 sec. 2, T.115 N., R.23 W., Scott County, Hydrologic Unit 07020012, 1.05 miles above State Highway 101, at Nyssens Lake outlet, in north west corner of Shakopee.	--	--	9-08-03	651
Minnesota River Trib. at St. Hwy. 101 and Co. Rd. 17 in Shakopee (05330730)	Minnesota River	Lat 44°48'06", long 93°30'16", in NW1/4 SE1/4 NE1/4 sec.6 T.115 N., R.22 W., Scott County, Hydrologic Unit 07020012, upstream of Mill Pond, below culvert on State High- way 101, east of County Highway 17 in Shakopee.		1968	09-08-03	1.25
Bluff Creek at U.S. Hwy. 101 near Chaska (05330740)	Minnesota River	Lat 44°48'44", long 93°32'25", in SE1/4 SE1/4 NE1/4 sec. 35, T.116 N., R.23 W., Carver County, Hydro- logic Unit 07020012, at State High- way 101, 2 miles east of Chaska (2003 measured 500 ft above U.S. Highway 101 bridge).	--	1968	09-08-03	0.64
Riley Creek at U.S. Hwy. 212 in Eden Prairie (05330746)	Minnesota River	Lat 44°49'03", long 93°28'45", in NW1/4 NW1/4 NW1/4 sec. 33, T.116 N., R.22 W., Carver County, Hydro- logic Unit 07020012, at U.S. High- way 212, at site of MWCC gage, in Eden Prairie.	--	--	09-08-03	0.84
Minnesota River above Blue Lake WWT Plant near Shakopee (05330755)	Mississippi River	Lat 44°48'13", long 93°26'53", in NW1/4 NW1/4 NE1/4 sec. 3, T.115 N., R.22 W., Scott County, Hydrologic Unit 07020012, 0.25 miles above Blue Lake outlet, and Blue Lake Waste Water Treatment plant, 3.1 miles above U.S. Highway 169, down- stream of Valley Fair, 2.4 miles northeast of Shakopee.	--	1998	09-08-03	621
Purgatory Creek at River View Road in Eden Prairie (05330809)	Minnesota River	Lat 44°48'32", long 93°24'11", in NE1/4 SE1/4 sec. 36, T.116 N., R.22 W., Hennepin County, Hydrologic Unit 07020012, at culvert under Riverview Road, 1.3 miles west of the intersection of Bush Lake Road and Old Shakopee Road in Bloomington, 4 miles east of Eden Prairie.	--	1979	09-08-03	1.87

DISCHARGE AT LOW-FLOW SITES--Continued

Stream name and [Station no.]	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Eagle Creek at St. Hwy 101 near Savage (05330858)	Minnesota River	Lat 44°46'46", long 93°23'03", in SE1/4 NW1/4 SE1/4 sec. 7, T.115 N., R.21 W., Scott County, Hydrologic Unit 07020012, upstream of State Highway 101, 0.4 mile above mouth, 1.75 miles northwest of Savage.	--	1968	09-08-03	7.92
Credit River at 123rd St. in Savage (05330875)	Minnesota River	Lat 44°46'42", long 93°20'35", in SW1/4 SE1/4 SW1/4 sec. 31, T.115 N., R.24 N., Scott County, Hydro- logic Unit 07020012, at bridge on 123rd St., 0.67 miles from mouth in Savage.	--	1968-69, 1979, 1988, 2000	09-08-03	1.78
Willow Creek above mouth in Burnesville (05330894)	Minnesota River	Lat 44°47'20", long 93°18'51", in NE1/4 NE1/4 NE1/4 sec.32, T.27 N., R.21 W., Dakota County, Hydrologic Unit 07020012, 0.2 mile north of Waste Management Inc. Weight sta- tion, 1.2 mile west of I-35 W bridge, in Burnsville.	--	--	09-08-03	0.00
Nine Mile Creek near James Circle at Bloomington (05330902)	Minnesota River	Lat 44°48'26", long 93°18'05", in SE1/4 SW1/4 sec. 21, T.27 N., R.21 W., Hennepin County, Hydrologic Unit 07020012, 1/4 mile downstream of 106th street near Metro Council Gage in Bloomington.	--	1995-99	09-08-03	1.03

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