

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to these events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 2004

Station name and number	Location and drainage area	Period of record	Date	Water year 2004 maximum		Period of record maximum		
				Gage height (ft)	Dis-charge (ft ³ /s)	Date	Gage height (ft)	Dis-charge (ft ³ /s)
WILLOW CREEK BASIN								
Balm Fork near Heppner	Lat 45°19'56", long 119°32'24", in NW 1/4 SE 1/4 sec.2, T.23S., R.26E., Murrow County, Hydrologic Unit 17070104, on right bank, 0.7 mi upstream from bridge on Willow Creek Road, 1.0 mi southeast of Heppner, 1.2 mi upstream from Willow Creek dam, and at mile 1.1 Drainage area is 26,3 mi ² .	1982-2003‡ 2004	01/10/04 01/29/04	4.96	13	12/29/96 03/04/83	5.12 4.90	190
WILLAMETTE RIVER BASIN								
Wilson Creek near Hazelia (14207100)	Lat 45°22'56", long 122°40'49", in SE 1/4 SE 1/4 sec.72, T.2 S., R.1E., Clackamas County, Hydrologic Unit 17090010, at Long Farm Road, 0.7 mi southeast of Hazelia. Drainage area is 1.24 mi ² .	2002-04	12/13/04	7.73	15	01/31/03	8.26	44
Rock Creek at Sunnyside Road, near Damascus (14210830)	Lat 45°25'38", long 122°29'31", in NW 1/4 SW 1/4 sec.6, T.2 S., R.3E., Clackamas County, Hydrologic Unit 17090011, at private bridge 300 ft north of Sunnyside Road, 2 mi northwest of Damascus, and 1.75 upstream from confluence with Clackamas River. Drainage area is 6.46 mi ² .	2002-04	12/13/04	7.43	708	01/31/03	7.63	838
Rock Creek near Carver (14210850)	Lat 45°24'35", long 122°30'18", in SE 1/4 SE 1/4 sec.12, T.2 S., R.3E., Clackamas County, Hydrologic Unit 17090011, on private land adjacent to Hwy 212/224, 0.3 mi east of 142nd, 0.2 mi upstream from confluence with Clackamas River. Drainage area 9.59 mi ² .	2002-04	12/13/04	6.43	451	01/31/03	7.11	520
Kellogg Creek upstream from Mt. Scott Creek, near Milwaukie (14211330)	Lat 45°25'18", long 122°36'01", in NE 1/4 SW 1/4 sec.55, T.2 S., R. 2E., Clackamas County, Hydrologic Unit 17090012, on Parmenter Ct., 250 ft downstream from culvert. Drainage area is 2.26 mi ² .	2002-04	12/14/04	8.26	77	01/31/03	8.48	97
Mt. Scott Creek near Milwaukie (14211350)	Lat 45°25'37", long 122°36'30", in SW 1/4 SW 1/4 sec.54, T. 2 S., R.2E., Clackamas County, Hydrologic Unit 17090012, in North Clackamas Central Park, south of highway 224. Drainage area is 11.82 mi ² .	2002-04	12/13/04	8.13	nd	01/31/03	8.60	nd

‡ Operated at a continuous record gaging station.

nd - Not determined at time of publication.

Annual maximum discharge at crest-stage partial-record stations during water year 2004--Continued

Station name and number	Location and drainage area	Period of record	Date	Water year 2004 maximum		Period of record maximum		
				Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
NESTUCCA RIVER BASIN								
Walker Creek near Fairdale (14302850)	Lat 45°18'12", long 123°24'51", in SW 1/4 SW 1/4 sec.15, T. 3 S., R.6 W., Yamhill County, Hydrologic Unit 17100203, at culvert, 5.3 mi southwest of Fairdale, and at mile 0.5. Drainage area is 2.72 mi ² .	1992-2004	01/29/04	4.19	204	02-08-96	unknown	450
UMPQUA RIVER BASIN								
Elk Creek near Drew (14308500)	Lat 42°53'25", long 122°55'00", in SW 1/4 sec.11, T.31 S., R.2 W., Douglas County, Hydrologic Unit 17100302, 100 ft downstream from Dixon Creek, 0.1 mi upstream from Drew Creek, 1.3 mi northwest of Drew, Drew, 3.3 mi south of Tiller, and at mile 4.1. Drainage area is 54.4 mi ² .	1955-82 1987-2004	12/14/03	8.40	4,030	01/09/95	11.09	9,120
Lookingglass Creek at Brockway (14311500)	Lat 43°07'50", long 123°27'50", in SE 1/4 SE 1/4 sec.13, T.28 S., R.7 W., Douglas County, Hydrologic Unit 17100302, on left bank, 1.7 mi northwest of Brockway, and at mile 2.85. Drainage area is 158 mi ² .	1956-2004	12/14/03	11.42	6,160	12/26/55	24.93	35,000

‡ Operated at a continuous record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Discharge measurements made at miscellaneous sites during water year 2004.

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
KLAMATH RIVER BASIN						
11507400	Link River	Lat 42°13'16", long 121°47'35", in SW 1/4 NW 1/4 sec.32, T.38 S., R.9 E., Klamath County, Hydrologic Unit 18010204, 600 ft downstream from Link River gage, and 1,200 ft upstream from Main Street Bridge.	3,810	1961-2003	10/22/03 12/10/03 04/07/04	204 262 300
11516580	Klamath River	Lat 42°04'37", long 122°42'12", in SW 1/4 NE 1/4 sec. 21 T.40 S., R.1 E.	0.097	---	09/24/04 10/18/04	0.03 0.02
DESCHUTES RIVER BASIN						
14087390	Deschutes River	Lat 44°27'57", long 121°17'11", in Jefferson County, Hydrologic Unit 17070305, near Culver and at mile 9.2.	---	2003	07/23/04 09/28/04	581 577
14087393	.....do.....	Lat 44°28'22", long 121°17'47", in Jefferson County, Hydrologic Unit 17070305 near Culver and at mile 8.4.	---	2003	07/23/04 09/28/04	869 847
SANDY RIVER BASIN						
14131400	Sandy River	Lat 45°18'32", long 121°51'31", in NE 1/4 SE 1/4 sec.18, T.3 S., R.8 E., Clackamas County, Hydrologic Unit 17080001, in Mt. Hood National Forest, at bridge, 0.5 mi upstream from Devil Canyon Creek, 1.2 mi downstream from Lady Creek, and 2.8 mi southeast of Rhododendron.	14.8	1981-93‡ 1999-2003	10/06/03 02/02/04	44 130
WILLAMETTE RIVER BASIN						
Lost Creek near Dexter	Middle Fork Willamette River	Lat 43°52'12", long 122°48'33", Lane County, Hydrologic Unit 17090001, approximately 75 ft downstream from bridge in Bristow State Park.	32.2	---	05/11/04 09/02/04	78 6.4
Silk Creek near Cottage Grove	Coast Fork Willamette River	Lat 43°47'43", long 123°04'02", Lane County, Hydrologic Unit 17090002, approximately 300 ft upstream from River Road bridge.	16.3	---	05/12/04 09/02/04	9.2 0.66
Hill Creek near Creswell	.....do.....	Lat 43°51'43", long 123°03'41", Lane County, Hydrologic Unit 17090002, downstream of the Jackson Road bridge.	16.3	---	05/12/04	4.6
Amazon Creek nr Danebo Road, at Eugene	Long Tom River	Lat 44°02'57", long 123°10'32", Lane County, Hydrologic Unit 17090003, directly above natural control, approximately 450 ft upstream from Danebo Road bridge.	19.4	---	05/11/04 09/03/04	6.1 5.6
Oak Creek at Corvallis	Marys River	Lat 44°33'26", long 123°16'52", Benton County, Hydrologic Unit 17090003, approximately 30 ft downstream from Western Road bridge.	12.6	---	05/11/04 08/19/04	5.9 1.1
Pringle Creek at Salem	Willamette River	Lat 44°55'51", long 123°01'58", Marion County, Hydrologic Unit 17090007, 50 ft downstream from Mission Street SE bridge.	9.6	---	11/05/03 01/20/04 03/11/04 05/13/04 07/01/04 08/30/04	2.0 26 12 5.6 2.7 3.1
Battle Creek near Turner	Mill Creek	Lat 44°50'29", long 122°59'26", Marion County, Hydrologic Unit 17090007, 20 ft upstream from bridge, at Youth with a Mission Camp driveway.	11.5	---	05/11/04 08/19/04	5.8 0.58
Claggett Creek at Keizer	Willamette River	Lat 45°00'22", long 123°01'24", Marion County, Hydrologic Unit 17090007, downstream from bridge leading to Inland Shores development.	9.6	---	11/05/03 01/20/04 03/11/04 05/13/04 07/01/04 08/30/04	0.8 8.8 5.1 2.8 e1.0 0.74
North Yamhill near Yamhill	Yamhill River	Lat 45°21'49", long 123°19'49", Yamhill County, Hydrologic Unit 17090008, on the western edge of the Flying M Ranch, at the current horse trail stream crossing.	25.4	---	05/18/04 08/27/04	17 9.2
Chehalem Creek at Newberg	Willamette River	Lat 45°17'34", long 122°58'54", Yamhill County, Hydrologic Unit 17090007, downstream from Dayton Road bridge.	37.8	---	05/10/04 08/30/04	8.0 0.93

e estimated

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 2004--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
WILLAMETTE RIVER BASIN--Continued						
Milk Creek at Camp Adams	Molalla River	Lat 45°09'56", long 122°29'13", Clackamas County, Hydrologic Unit 17090009, approximately 100 ft downstream from bridge leading into Camp Adams.	40.1	---	05/06/2004	27
					08/18/2004	8.6
Nate Creek	Milk Creek	Lat 45°10'00", long 122°29'20", Clackamas County, Hydrologic Unit 17090009, approximately 100 ft upstream from confluence with Milk Creek.	11.1	---	05/06/2004	5.3
					08/18/2004	2.0
Iller Creek near Forest Grove	Gales Creek	Lat 45°35'06", long 123°12'57", Washington County, Hydrologic Unit 17090010, approximately 150 ft upstream from NW Soda Springs Road bridge.	4.9	---	05/03/2004	6.2
					08/20/2004	0.5
14206347 Rock Creek at Quatama Road, near Hillsgoro	Tualatin River	Lat 45°31'26", long 122°54'29", Washington County, Hydrologic Unit 17090010, about 20 ft downstream from Quatama Road bridge.	25.8	---	05/03/2004	4.4
					08/19/2004	0.51
14206435 Beaverton Creek at SW216th Ave., near Orengo	Rock Creek	Lat 45°31'15", long 122°53'54", Washington County, Hydrologic Unit 17090010, 10 ft upstream from abandoned bridge at the dead end of SW 216th Avenue.	36.9	---	05/03/2004	10
					08/19/2004	6.2
14206750 Chicken Creek near Sherwood	Tualatin River	Lat 45°22'30", long 122°51'19", Washington County, Hydrologic Unit 17090010, under Roy Rodgers Road bridge, on upstream side."	15.5	---	05/10/04	6.4
					08/30/04	1.9
14208000 Clackamas River at Big Bottom	Willamette River	Lat 45°01'00", long 121°55'10", in NW 1/4, SE 1/4 sec.26, T.6 S., R.7 E., Clackamas County, Hydrologic Unit 17090011, Mount Hood National Forest, on right bank at lower end of Big Bottom, 0.5 mi downstream from of Creek, 28 mi southeast of Estacada, and at mile 65.1.	136	1920-70‡, 1997-2003	10/06/03	204
Deep Creek near Sandy	Clackamas River	Lat 45°22'31", long 122°20'00", Clackamas County, Hydrologic Unit 17090011, adjacent to downstream end of laundry building at Hidden Woods RV Park.	12.1	---	11/04/03	2.3
					01/14/04	56
					03/09/04	33
					05/04/04	5.1
					06/29/04	4.0
					08/17/04	1.3
Tickle Creek near Boring	Deep Creek	Lat 45°24'14", long 122°21'32", Clackamas County, Hydrologic Unit 17090011, approximately 450 ft upstream from the Tickle Creek Road bridge.	13.2	---	11/04/03	3.1
					01/15/04	74
					03/09/04	34
					05/04/04	7.2
					06/29/04	4.9
					08/17/04	2.9
North Fork Deep Creek at Barton	.....do.....	Lat 45°23'37", long 122°24'35", Clackamas County, Hydrologic Unit 17090011, about 30 ft upstream from footbridge at Camp Kuralti.	14.3	---	11/04/03	1.7
					01/14/04	70
					03/09/04	32
					05/04/04	3.7
					06/29/04	2.4
					08/17/04	2
14210850 Rock Creek near Carver	Clackamas River	Lat 45°24'35", long 122°30'18", in SE 1/4 SE 1/4, sec.12, T.2 S., R.3 E., Clackamas County, Hydrologic unit 17090011, on private land adjacent to Hwy 212/224, 0.3 mi east of 142nd, 0.2 mi upstream from confluence with Clackamas River.	9.59	2001-03	07/15/04	0.89
					09/23/04	1.3
14211350 Mt. Scott Creek near Milwaukie	Kellogg Creek	Lat 45°25'37", long 122°36'30", in SW 1/4 SW 1/4 sec. 54, T.2 S., R.2 E., Clackamas County, Hydrologic unit 17090012, in North Clackamas Central Park, south of Hwy 224.	11.82	2001-02	01/29/04	110
Kellogg Creek at Milwaukie	Willamette River	Lat 45°25'26", long 122°36'44", Clackamas County, Hydrologic Unit 17090012, approximately 75 ft upstream from private bridge at site.	13.2	---	11/06/03	3.9
					01/13/04	38
					03/10/04	14
					05/14/04	7.1
					06/30/04	5.8
					08/18/04	4.2
					09/03/04	7
Johnson Creek at Circle Ave.	.....do.....	Lat 45°29'12", long 122°29'12", Multnomah County, Hydrologic Unit 17090012, 40 ft upstream from Circle Avenue bridge.	21.5	---	05/04/04	2.8
					08/18/04	1.3

‡ Operated as a continuous record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 2004--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
WILLAMETTE RIVER BASIN--Continued						
Errol Spring	Johnson Creek	Lat 45°27'49", long 122°37'00", Multnomah County, Hydrologic Unit 17090012, at SE 44th Avenue between SE Umatilla Street and SE Harney Street in Portland, at mouth.	---	1988, 1998-2003	09/28/04	0.38
14211546 Crystal Springs Creek	.....do.....	Lat 45°27'39", long 122°38'30", Multnomah County, Hydrologic Unit 17090012, at mouth.	---	1987-90 1997-2003	09/28/04	11
LOWER COLUMBIA BASIN						
South Scappoose Creek	Scappoose Creek	Lat 45°45'43", long 122°52'49", Columbia County, Hydrologic Unit 17090012, 15 ft upstream from E. J. Smith Road bridge.	25.2	---	05/06/04 08/31/04	19 4.6
McNulty Creeek at St. Helens	Columbia River	Lat 45°50'32", long 122°49'23", Columbia County, Hydrologic Unit 17090012, approximately 50 ft downstream from Old Portland Road culvert.	---	---	05/06/04	2.8
NESTUCCA RIVER BASIN						
14302850 Walker Creek	Nestucca River	Lat 45°18'12", long 123°24'51", in SW 1/4 SW 1/4 sec. 15, T.3 S., R.6 W., Yamhill County, Hydrologic Unit 17100203, 5.3 mi southwest of Fairdale, and at mile 0.5.	2.72	1991-2003	11/26/03 01/22/04	34 22
UMPQUA RIVER BASIN						
14308500 Elk Creek near Drew	South Umpqua River	Lat 42°53'25", long 122°55'00", in SW 1/4 sec.11, T.31 S., R.2 W., Douglas County, Hydrologic Unit 17100302, on right bank 100 ft downstream from Dixon Creek, 0.1 mi upstream from Drew Creek, 3.3 mi southeast of Tiller, and at mile 4.1.	54.4	---	02/25/04 04/27/04	231 32
14311500 Lookingglass Creek at Brockway	South Umpqua River	Lat 43°07'50", long 123°27'50", in SE 1/4 SE 1/4 sec.13, T.28 S., R.7 W., Douglas County, Hydrologic Unit 17100302, on left bank, 1.7 mi northwest of Brockway and at mile 2.85.	158	a1956-2000‡	01/09/04 01/09/04	12 1,630
ROGUE RIVER BASIN						
14350870 Neil Creek at Mt. Ashland, near Ashland	Bear Creek	Lat 42°04'54", long 122°41'37", in NW 1/4 N/W 1/4 sec. 22 T.40 S., R.1 E.	0.136	---	09/24/04 10/18/04	0.04 0.05
14353420 Middle Fork of E.F. Ashland Creek, near Ashland	East Fork Ashland Creek	Lat 42°05'46", long 122°43'05", in NE 1/4 NE 1/4 sec. 17, T.40 S., R.1 E.	0.404	---	09/23/04	0.37
14353425 West Fork of E.F. Ashland Creek, near Ashland	.....do.....	Lat 42°05'50", long 122°43'42", in NE 1/4 NW 1/4 sec. 12, T.40 S., R.1 E.	0.367	---	09/23/04	0.12
14353430 East Fork of E.F. Ashland Creek near Ashland	.....do.....	Lat 42°05'06", long 122°42'17", in SW 1/4 SE 1/4 sec. 16 T.40 S., R.1 E.	0.117	---	09/27/04	0.06
14353435 Pumphouse Creek at Mt. Ashland, near Ashland	East Fork of E.F. Ashland Creek	Lat 42°05'26", long 122°42'31", in NE 1/4 SW 1/4 sec. 16, T.40 S., R.1 E.	0.072	---	09/23/04	0.02
14353450 East Fork Ashland Creek above Bull Gap Creek, near Ashland	Ashland Creek	Lat 42°06'33", long 122°42'36", in NE 1/4 NW 1/4 sec. 9, T.40 S., R.1 E.	3.20	---	09/24/04 10/18/04	2.36 2.2

a Not previously published.

‡ Operated as a continuous record gaging station.