

## 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 2002

Station name and number	Location and drainage area	Period of record	Date	Water year 2002 maximum		Period of record maximum		Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
				Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)			
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 <sup>2</sup> .	2002	01/08/02	8.04	31	01/08/02	8.04	31		
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 <sup>2</sup> .	2002	01/25/02	7.06	507	01/25/02	7.06	507		
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 <sup>2</sup> .	2002	01/25/02	6.38	409	01/25/02	6.38	409		
Kellogg Creek above 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 <sup>2</sup> .	2002	01/25/02	8.02	59	01/25/02	8.02	59		
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 11.82 mi <sup>2</sup> .	2002	01/25/02	7.99	308	01/25/02	7.99	308		

## Annual maximum discharge at crest-stage partial-record stations during water year 2002--Continued

Station name and number	Location and drainage area	Period of record	Date	Water year 2002 maximum		Period of record maximum		
				Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /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 <sup>2</sup> .	1992-2002	01/25/02	5.76	325	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 <sup>2</sup> .	1955-82 1987-2002	12/14/01	7.28	2,560	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 <sup>2</sup> .	1956-2002	12/14/01	7.70	2,760	12/26/55	24.93	35,000

## 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 2002.

Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
KLAMATH RIVER BASIN						
Keno Power Canal	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	1961-2001	10/24/01	270
					01/30/02	266
					04/17/02	287
					07/10/02	269
GRANDE RONDE RIVER BASIN						
13324280 Lookingglass Creek below Intake, near Looking Glass	Grande Ronde River	Lat 45°44'05", long 117°51'48", in SE 1/4 SW 1/4 sec.18, T.3 N., R.40 E., Union County, Hydrologic Unit 17060104, on right bank, 150 ft downstream from intake to Looking Glass Fish Hatchery, 1,300 ft upstream from gaging station (13324300), 2.5 mi northwest of Looking Glass, and at mile 2.5.	---	1999-2001	10/10/01 07/28/02	25 20
UMATILLA RIVER BASIN						
14020760 Cottonwood Creek near Mission	Umatilla River	Lat 45°39'38", long 118°33'52", in SW 1/4 SW 1/4 sec.8 T.2 N., R.34 E., Umatilla County, Hydrologic Unit 17070103, Umatilla Indian Reservation, on right bank, on downstream side of county road crossing, 4.5 mi west of Mission, and at mile 1.3.	4.01	1992-97‡ 1998-2001	11/14/01	no flow
					12/06/01	0.8
					01/25/02	3.0
					03/27/02	13
					05/21/02 07/10/02	0.1 no flow
DESCHUTES RIVER BASIN						
Badger Creek near Warm Springs	Warm Springs River	Lat 44°57'00", long 121°28'30", in NE 1/4 SW 1/4 sec.20 T.7 S., R.11 E., Wasco County, Hydrologic Unit 17070306	37.2	1973, 1977 1987	06/24/02	19
SANDY RIVER BASIN						
14131400 Zig Zag River near Rhododendron	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‡ 1999-2001	10/05/01	40
					12/03/01	75
					02/11/02	67
					08/19/02	57
WILLAMETTE RIVER BASIN						
14144800 Middle Fork Willamette River near Oakridge	Willamette River	Lat 43°35'50", long 122°27'20", in NW 1/4 NE 1/4 sec.9, T.23 E., Lane County, Hydrologic Unit 17090001, in Willamette National Forest, on right bank 0.2 mi upstream from Windfall Creek, 8.3 mi upstream from Hills Creek Dam, 10.2 mi south of Oakridge, and at mile 240.8.	258	---	08/02/02	255
Coast Fork Willamette River near London	Middle Fork Willamette River	Lat 43°38'55", long 123°04'54", in NE 1/4 SE 1/4 sec.42, T.22 S., R.3 W., Lane County, Hydrologic Unit 17090002, at London Road bridge, at London School (CF:Willamette River at London-14152500).	75.2	---	08/02/02	8.8
Horse Creek below Foley Springs	McKenzie River	Lat 44°09'44", long 122°09'14", in Se 1/4 NW 1/4 sec.24, T.15 S., R.5 E., Lane County, at Horse Creek Campground, approximately 300 ft upstream from Horse Creek Road bridge.	149.6	---	07/02/02	31
Quartz Creek near Blue River	.....do.....	Lat 44°11'20", long 122°19'50", in NW 1/4 SE 1/4 sec.9, T.16 S., R.4 E., Lane County, 150 ft upstream from Blue River Reservoir.	3.5	---	07/02/02	1.7
Coyote Creek	Long Tom River	Lat 44°09'19", long 123°17'22", Lane County, Hydrologic Unit 17090003, at downstream end of culvert, underneath Franklin Road.	---	---	08/21/02	3.1
Bear Creek at High Pass Road	.....do.....	Lat 44°12'08", long 123°17'11", Lane County, Hydrologic Unit 17090003, underneath High Pass Road bridge.	---	---	08/19/02	0.35
Amazon Creek at High Pass Road	.....do.....	Lat 44°11'37", long 123°14'51", Lane County, Hydrologic Unit 17090003, beneath High Pass Road bridge.	---	---	08/19/02	1.6
Ferguson Creek	.....do.....	Lat 44°14'52", long 123°17'10", Lane County, Hydrologic Unit 17090003, at Territorial Rd., 4.3 mi northwest of Junction City, and at mile 1.5.	---	---	05/09/02 08/20/02	14 1.0
Ferguson Creek	.....do.....	Lat 44°15'08", long 123°16'01", Lane County, Hydrologic Unit 17090003, at Ferguson Rd., 3.6 mi northwest of Junction City, and at mile 0.1.	---	---	05/08/02 08/20/02	94 28
Diversion at Ferguson Dam	.....do.....	Lat 44°15'05", long 123°15'34", Lane County, Hydrologic Unit 17090003, measured in flume.	---	---	08/20/02	15
Willamette River near Peoria	Columbia River	Lat 44°26'47", long 123°12'22", Linn/Benton Counties, Hydrologic Unit 17090003, near Peoria Park, and at mile 141.5.	---	---	06/12/02	6,740

‡ Operated as a continuous record gaging station.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
WILLAMETTE RIVER BASIN--Continued						
Willamette River near Corvallis	Columbia River	Lat 44°34'04", long 123°15'16", Linn/Benton Counties, Hydrologic Unit 17090003, 900 ft below Hwy 34 bridge, at Corvallis, and at mile 131.3.	---	---	09/24/02	5,290
Willamette River at Adair	.....do.....	Lat 44°38'16", long 123°09'32", Linn/Benton Counties, HKydrologic Unit 17090003, at Adair, and at mile 121.9.	---	---	06/11/02	7,090
Willamette River near mouth of Santiam River	.....do.....	Lat 44°44'11", long 122°08'06", Marion County, Hydrologic Unit 17090003, just upstream from mouth of Santiam River, and at mile 108.	---	---	06/11/02	7,270
North Santiam River near Marion Forks	Santiam River	Lat 44°30'03", long 122°00'08", Linn County, 50 ft downstream from OR 22 bridge, south of Marion Forks.	21.2	---	08/02/02	12
Breitenbush River below Breitenbush Hot Springs	North Santiam River	Lat 44°46'49", long 121°59'47", in SE 1/4 NE 1/4 sec.19, T.9 S., R.7 E., Marion County, at Breitenbush Campground, approximately 0.3 mi upstream from bridge to Breitenbush Hot Springs, near Detroit.	62.2	---	08/02/02	148
Canal Creek near Cascadia	South Santiam River	Lat 44°35'16", long 122°20'47", in NE 1/4 NE 1/4 sec.29, T.11 S., R.4 E., Linn County, 70 ft downstream from Forest Service road 11 bridge.	23.6	---	08/02/02	7.2
Santiam River near Talbot	Willamette River	Lat 44°45'05", long 123°07'27", Marion County, Hydrologic Unit 17090005, near Talbot, and 0.75 mi upstream from mouth.	---	---	09/25/02	1,870
Willamette River at Independence	Columbia River	Lat 44°50'41", long 123°10'43", Polk/Marion Counties, Hydrologic Unit 17090007, 350 ft upstream from South River Road bridge, at Independence, and at mile 96.3.	---	---	09/24/02	7,810
14206435 Beaverton Creek at SW 216th Ave., near Orenco	Tualatin River	Lat 45°31'15", long 122°53'54", in SW 1/4 SW 1/4 sec.47, T.1 N., R.,2 W., Washington County, at bridge at SW 216th Avenue, near Orenco.	36.0	---	08/02/02	6.2
14207100 Wilson Creek near Hazelia	Tualatin River	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.	1.24	---	09/10/01 09/27/01 11/14/01 12/13/01 03/14/02 09/09/02	no flow 0.02 0.68 9.2 5.9 no flow
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, Mount Hood National Forest, on right bank at lower end of Big Bottom, 0.5 mi downstream from Pot Creek, 28 mi southeast of Estacada, and at mile 65.1.	136	1920-70‡, 1997-2001	11/28/01 04/25/02 07/10/02	600 712 311
Upper Clackamas River at Two Rivers Campground	Willamette River	Lat 45°01'55", long 122°03'31", in NW 1/4 SE 1/4 sec.22, T.6 S., R.6 E., Clackamas County, 250 ft from Forest Service Road 63 bridge, at Two Rivers Campground.	157.3	---	07/02/02	289
Oak Grove Fork	Clackamas River	Lat 45°04'48", long 122°02'30", in NE 1/4 SE 1/4 sec.2 T.6 S., R.6 E., Clackamas County, at OR 224 bridge, at Rainbow Campground.	140.8	---	07/02/02	15
14210830 Rock Creek at Sunnyside Road, near Damascus	Clackamas River	Lat 45°25'38", long 122°29'31", in NW 1/4 SW 1/4 sec.6, T.2 S., R.3 E., Clackamas County, Hydrologic Unit 17090011, at private bridge, 300 ft north of Sunnyside Road, 2 mi northwest of Damascus and 1.75 mi upstream from confluence with Clackamas River.	6.46	---	09/10/01 09/22/01 11/14/01 12/12/01 03/14/02 03/19/02	0.07 0.17 11 22 32 100
14210850 Rock Creek near Carver	.....do.....	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	09/10/01 09/27/01 11/14/01 12/12/01 01/25/02 03/14/02 03/19/02	a0.77 a1.0 19 31 409 49 141
14211330 Kellogg Creek above Mt. Scott Creek, near Milwaukie	Willamette River	Lat 45°25'18", long 122°36'01", in NE 1/4 SW 1/4 sec.55, T.2 S., R.2 E., Clackamas County, Hydrologic unit 17090012 on Parmenter Ct., 250 ft downstream from culvert.	2.26	2001	09/10/01 09/27/01 11/14/01 12/13/01 03/14/02 03/19/02 05/17/02	a1.2 a1.2 5.5 33 6.5 14 2.5

‡ Operated as a continuous record gaging station.

a Not previously published.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
WILLAMETTE RIVER BASIN--Continued						
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 17090010, in North Clackamas Central Park, south of Hwy 224.	11.82	2001	09/10/01 09/27/01 11/14/01 12/05/01 12/11/01 01/25/02 03/14/02 03/19/02	a1.7 a3.6 43 213 33 308 37 115
Johnson Creek	Clackamas River	Lat 45°28'23", long 122°24'06", Multnomah County, Hydrologic Unit 17090012, at Palmbled Road, 2.1 mi southeast of Gresham, and at mile 17.2.	---	1987-88 1998-2001	01/25/02 03/13/02	446 89
Johnson Creek	.....do.....	Lat 45°27'43", long 122°36'54", Multnomah County, Hydrologic Unit 17090012, at 45th Avenue, and at mile 3.2.	---	1988, 1997-2001	01/25/02 03/13/02	884 206
Errol Spring	Johnson Creek	Lat 45°27'49", long 122°37'00", Multnomah County, Hydrologic Unit 17090012, at 44th Avenue in Portland, at mouth.	---	1988, 1998-2001	09/13/02	0.34
14211546 Crystal Springs Creek	.....do	Lat 45°27'39", long 122°38'30", Multnomah County, Hydrologic Unit 17090012, at mouth.	---	1987-90 1997-2001	04/23/02 09/13/02	12 10
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	1991-2001	10/11/01 12/21/01 02/15/02 04/11/02 06/12/02	0.92 36 13 19 2.1
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, 100 ft downstream from Dixon Creek, 0.1 mi upstream from Drew Creek, 1.3 mi north of Drew, 3.3 mi southeast of Tiller, and at mile 4.1.	54.4	1955-82‡, 1987-2001‡	11/29/01 03/14/02	171 85

‡ Operated as a continuous record gaging station.

## DISCHARGE AT VARIOUS WILLAMETTE AND SANTIAM RIVER SITES

Measurements were made in March 2002 as part of a hydrologic and water temperature modeling study of the main stem and major tributaries of the Willamette River, Oregon. Measurements of streamflow at points other than gaging stations are given in the following table. Measurements were made by the U.S. Geological Survey (USGS).

Willamette River  Date	River Mile	Longitude	Latitude	Measurements of Discharge (ft <sup>3</sup> /s)
3/19/02	175	123 06.4462	44 07.5828	10,200
3/19/02	174	123 07.2424	44 08.0848	10,600
3/18/02	172	123 07.8735	44 09.4089	10,900
3/18/02	170	123 07.8363	44 10.8349	11,200
3/18/02	168.9	123 08.7614	44 11.2817	11,200
3/18/02	168	123 09.3911	44 11.8970	11,000
3/18/02	167	123 09.8838	44 12.2464	11,000
3/19/02	166	123 09.4235	44 13.0377	10,800
3/19/02	163.6	123 09.9620	44 14.3049	10,800
3/19/02	161	123 10.4752	44 16.4395	10,400
3/20/02	160	123 11.0525	11 17.0942	11,000
3/20/02	158	123 11.8311	44 18.5147	11,100
3/20/02	157	123 12.9649	44 18.6465	10,900
3/20/02	156	123 13.0345	44 19.3874	10,500
3/20/02	154	123 14.7337	44 19.9842	11,200
3/20/02	153	123 13.9034	44 20.4035	11,100
3/20/02	151	123 13.1142	44 21.6784	11,300
3/20/02	150	123 13.9111	44 22.2647	10,800
3/20/02	148	123 14.2193	44 23.0808	11,700
3/20/02	147	123 13.4006	44 23.7526	12,100
3/20/02	146	123 13.6764	44 24.5047	11,800
3/21/02	144	123 13.6917	44 25.8357	11,300
3/21/02	143	123 12.8245	44 26.0815	11,600
3/21/02	142	123 12.4831	44 26.8030	11,300
3/21/02	141	123 12.7373	44 27.4950	12,000
3/21/02	140	123 13.0384	44 28.3507	11,800
3/21/02	139	123 13.1069	44 28.8939	11,800
3/21/02	138	123 12.9158	44 29.5677	11,700
3/21/02	137	123 12.7944	44 30.3694	11,800
3/21/02	136	123 13.7550	44 31.1693	11,900
3/21/02	135	123 14.5852	44 31.6235	11,900
3/21/02	134	123 14.9456	44 32.1676	11,100
3/21/02	133	123 14.6312	44 32.9250	12,500
3/21/02	132	123 15.6533	44 33.4146	14,200
3/21/02	131	123 15.2800	44 34.2731	14,300
3/21/02	130	123 14.4337	44 34.7353	14,200
3/21/02	129	123 13.3484	44 35.0814	14,300
3/21/02	128	123 12.0818	44 35.1723	14,600
3/21/02	127	123 10.0335	44 35.3661	14,200
3/22/02	126.3	123 11.4162	44 35.7371	14,400
3/22/02	125.4	123 11.8867	44 36.1528	14,700
3/22/02	124.5	123 10.9787	44 36.6462	14,700
3/22/02	123.5	123 10.4439	44 37.2074	14,300
3/22/02	122.8	123 10.3358	44 37.9130	14,400
3/22/02	121.8	123 09.3014	44 38.2270	14,300
3/22/02	121	123 08.07	44 38.26	14,600
3/22/02	119.6	123 06.51	44 38.36	15,800
3/25/02	119	123 05.9805	44 38.4211	18,800
3/25/02	118	123 04.9051	44 38.7525	19,300
3/25/02	117	123 04.3944	44 39.4446	19,200
3/25/02	116	123 05.1607	44 40.0491	19,500
3/14/02	115	123 05.7794	44 40.5722	29,100
3/14/02	114	123 06.9857	44 40.5972	29,400
3/14/02	113	123 07.3766	44 41.5036	31,000
3/14/02	112	123 08.3118	44 42.1913	29,100
3/14/02	110	123 09.0844	44 43.4817	29,700
3/14/02	109	123 08.1271	44 44.2505	29,600
3/14/02	108.4	123 08.0363	44 44.6704	30,200
3/14/02	107.6	123 08.8502	44 45.0744	50,700
3/14/02	107	123 08.9108	44 45.5705	52,500

## DISCHARGE AT VARIOUS WILLAMETTE RIVER SITES

Willamette River Date	River Mile	Longitude	Latitude	Measurements of Discharge (ft <sup>3</sup> /s)
3/14/02	106.4	123 08.7455	44 46.2308	51,200
3/14/02	105	123 07.9518	44 47.1293	50,400
3/14/02	104	123 06.9422	44 47.7142	50,800
3/14/02	103	123 05.7544	44 48.0653	51,200
3/14/02	102	123 05.6667	44 48.8671	51,600
3/15/02	101.9	123 05.7429	44 48.9279	45,200
3/15/02	101	123 06.6915	44 49.2997	44,400
3/15/02	100	123 07.8390	44 49.6040	44,200
3/15/02	97.8	123 09.6523	44 49.7461	44,300
3/15/02	96.8	123 10.2582	44 49.7377	44,800
3/15/02	96	123 10.8561	44 51.0217	45,000
3/15/02	95	123 10.5210	44 51.7601	43,500
3/15/02	94	123 09.5535	44 51.6605	44,300
3/15/02	93	123 08.9161	44 51.9308	44,400
3/15/02	91	123 08.0618	44 53.3556	44,600
3/15/02	90	123 07.7324	44 45.3370	44,600
3/15/02	89	123 06.7239	44 45.9525	43,900
3/25/02	77.1	123 04.5317	45 01.2664	30,700
3/25/02	76	123 04.1508	45 02.5320	31,200
3/25/02	75	123 04.0841	45 03.4165	30,700
3/25/02	74	123 03.9783	45 04.2841	31,300
3/25/02	73	123 03.8125	45 04.8906	31,200
3/26/02	44	122 51.6825	45 15.2334	32,800
3/26/02	43	122 50.6627	45 15.7726	32,400
3/8/02	42	122 50.0954	45 16.4657	33,800
3/8/02	41	122 48.8583	45 16.8800	34,300
3/8/02	40	122 47.5642	45 17.4131	34,200
3/8/02	38.6	122 46.3064	45 17.5300	34,600
3/8/02	37.8	122 45.2165	45 17.7930	34,200
3/8/02	36.6	122 44.0215	45 18.1520	33,600
3/8/02	35	122 42.2170	45 17.8082	40,300
3/7/02	33.8	122 41.0406	45 17.8133	39,000
3/7/02	32.5	122 39.8615	45 17.1432	35,300
3/7/02	31.5	122 39.5744	45 17.8895	37,400
3/6/02	30.5	122 39.9078	45 18.6664	20,000
3/6/02	29.0	122 39.4617	45 19.8920	20,000
3/6/02	28.3	122 38.8956	45 20.2577	20,900

Santiam River Date	River Mile	Longitude	Latitude	Measurements of Discharge (ft <sup>3</sup> /s)
3/13/02	6	123 02.9919	44 44.3079	20,000
3/13/02	5	123 03.6670	44 44.8288	20,800
3/13/02	4	123 04.7201	44 44.5756	20,000
3/13/02	3	123 05.9022	44 44.7702	21,500
3/13/02	2	123 06.0978	44 45.5438	19,400
3/13/02	1	123 07.6279	44 45.0821	20,800
3/13/02	0.3	123 08.3738	44 44.9875	20,900





## GROUND WATER LEVELS

## CLACKAMAS COUNTY

452033122195901. Local number, 02S/04E-29DAD

LOCATION.--Lat 45°21'56", long 122°20'00", Hydrologic Unit 17090011, 5 mi north of Estacada.

Owner: Polly and Michael Lohrey.

AQUIFER.--Sandy River Mudstone/Troutdale Gravel Aquifer. Tertiary.

WELL CHARACTERISTICS.--Drilled irrigation well, 6 inch casing to 176.3 ft, completed depth of 177 ft, perforated 95 to 110 ft, 129 to 149 ft.

INSTRUMENTATION.--Periodic measurements with chalked steel tape by USGS and Oregon Water Resources Department personnel from Feb. 1998 to Sept. 2001; periodic measurements using electric sounder tape and chalked steel tape by Oregon Water Resources Department personnel from Mar. 1962 to Jan. 1998; electronic data logger 120-minute interval, since Sept. 7, 2001.

DATUM.--Elevation of land surface is 712 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: westside bottom of pump base, 0.4 ft above land-surface datum before recorder installed. After recorder installed, measuring point: top of measuring point hole in recorder shelf, 2.43 ft above land-surface datum.

REMARKS.--Unused. State observation well number 37. State well identification CLAC 6388 and CLAC 6389 (deepening). Entire record from May 1958 to September 1998 published in the 1998 Water Data Report (WDR-OR-98-1).

PERIOD OF RECORD.--May 1958, March 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.17 ft below land-surface datum, October 27, 1998; lowest measurement, 91.96 ft below land-surface datum, July 20, 1970 (recovering).

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 61.92 ft below land-surface datum, June 20; lowest water level measured, 66.81 ft below land-surface datum, Oct. 17.

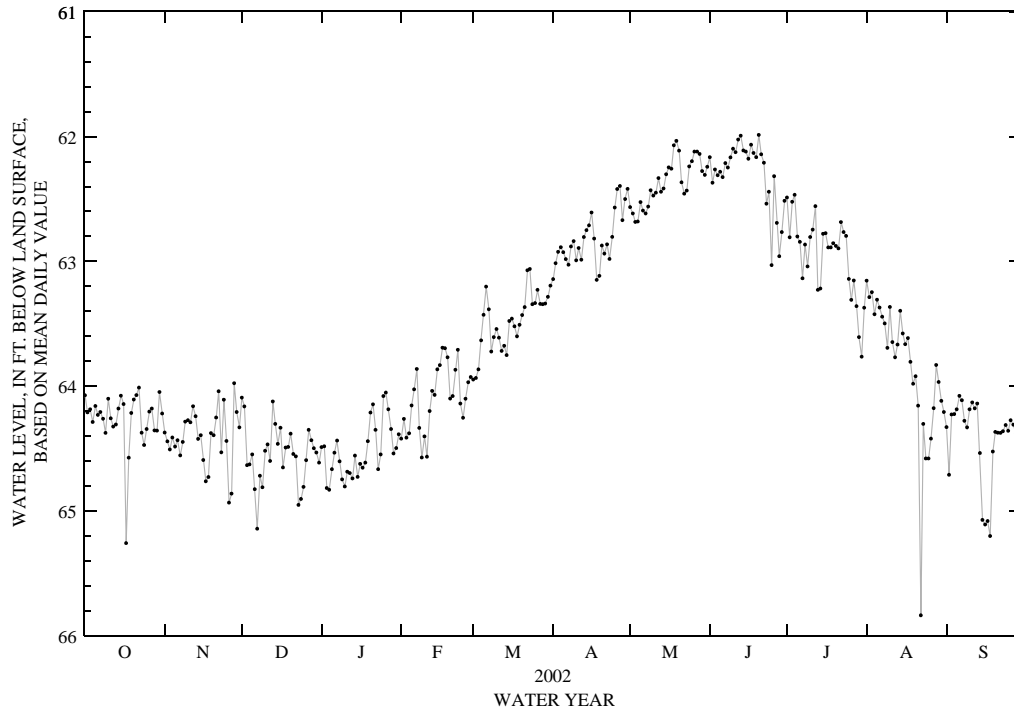
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64.07	64.37	64.09	64.49	64.42	63.95	63.14	62.57	62.17	62.49	63.16	64.33
2	64.21	64.44	64.16	64.48	64.26	63.94	63.02	62.62	62.37	62.81	63.29	64.71
3	64.19	64.51	64.63	64.82	64.41	63.87	62.92	62.68	62.27	62.52	63.25	64.23
4	64.29	64.41	64.63	64.83	64.38	63.63	62.89	62.68	62.31	62.47	63.42	64.23
5	64.16	64.48	64.55	64.67	64.16	63.43	62.93	62.53	62.28	62.80	63.31	64.19
6	64.23	64.43	64.83	64.53	64.03	63.20	62.98	62.59	62.33	62.84	63.37	64.08
7	64.21	64.56	65.14	64.44	63.86	63.38	63.03	62.62	62.21	63.14	63.44	64.11
8	64.26	64.45	64.72	64.60	64.33	63.72	62.88	62.56	62.25	62.87	63.50	64.28
9	64.38	64.28	64.81	64.75	64.57	63.61	62.84	62.43	62.17	63.04	63.69	64.33
10	64.10	64.27	64.52	64.80	64.40	63.54	62.99	62.47	62.10	62.81	63.37	64.19
11	64.26	64.29	64.47	64.69	64.57	63.61	62.89	62.45	62.13	62.75	63.65	64.13
12	64.33	64.16	64.60	64.70	64.20	63.72	62.99	62.33	62.03	62.56	63.77	64.18
13	64.31	64.24	64.12	64.74	64.04	63.68	62.81	62.44	61.99	63.23	63.67	64.14
14	64.18	64.42	64.30	64.56	64.07	63.75	62.75	62.42	62.11	63.22	63.40	64.54
15	64.08	64.39	64.46	64.73	63.87	63.48	62.71	62.30	62.12	62.78	63.58	65.07
16	64.14	64.59	64.33	64.62	63.83	63.46	62.61	62.25	62.18	62.78	63.66	65.11
17	65.26	64.76	64.65	64.65	63.69	63.52	62.82	62.26	62.07	62.89	63.62	65.08
18	64.57	64.73	64.49	64.61	63.70	63.60	63.15	62.07	62.13	62.89	63.81	65.20
19	64.22	64.38	64.49	64.44	63.77	63.51	63.12	62.03	62.17	62.85	63.98	64.52
20	64.11	64.39	64.38	64.21	64.10	63.43	62.87	62.11	61.99	62.88	63.92	64.37
21	64.07	64.25	64.54	64.15	64.08	63.37	62.94	62.37	62.14	62.90	64.16	64.37
22	64.01	64.04	64.56	64.35	63.87	63.07	62.87	62.46	62.21	62.69	65.84	64.38
23	64.37	64.53	64.95	64.67	63.71	63.06	62.98	62.43	62.54	62.77	64.30	64.36
24	64.47	64.11	64.91	64.55	64.14	63.34	62.80	62.24	62.44	62.80	64.58	64.31
25	64.34	64.44	64.81	64.08	64.25	63.34	62.57	62.20	63.03	63.14	64.58	64.36
26	64.21	64.93	64.59	64.05	64.10	63.23	62.42	62.12	62.32	63.31	64.42	64.27
27	64.18	64.86	64.35	64.19	63.97	63.34	62.40	62.12	62.69	63.15	64.18	64.31
28	64.36	63.98	64.43	64.34	63.93	63.34	62.67	62.14	62.96	63.36	63.83	64.38
29	64.36	64.21	64.50	64.54	---	63.34	62.50	62.28	62.77	63.61	63.97	64.42
30	64.05	64.33	64.53	64.50	---	63.28	62.42	62.31	62.52	63.77	64.12	64.53
31	64.22	---	64.61	64.39	---	63.20	---	62.24	---	63.37	64.21	---
MEAN	64.26	64.41	64.55	64.52	64.10	63.48	62.83	62.37	62.30	62.95	63.84	64.42
MAX	65.26	64.93	65.14	64.83	64.57	63.95	63.15	62.68	63.03	63.77	65.84	65.20
MIN	64.01	63.98	64.09	64.05	63.69	63.06	62.40	62.03	61.99	62.47	63.16	64.08

GROUND WATER LEVELS

CLACKAMAS COUNTY--Continued

Well identifier continued: 452033122195901. Local number, 02S/04E-29DAD



## GROUND WATER LEVEL

## DESCHUTES COUNTY

434400121275801. Local number, 21S/11E-19CCC. Formerly 21S/10E-25A1.

LOCATION.--Lat 43°44'01", long 121°27'57", Hydrologic Unit 17070302, 4.7 mi north of La Pine.

Owner: Luis Arena.

AQUIFER.--Valley-fill deposits. Quaternary.

WELL CHARACTERISTICS.--Drilled domestic well deepened from 37 to 100 ft in 1964, 6 inch casing 0 to 69.5 ft, completed depth of 100 ft, sounded depth of 92.5 ft on Feb. 26, 1998.

INSTRUMENTATION.--Periodic measurements with chalked steel tape by USGS and Oregon Water Resources Department personnel May 1998 to May 1999; periodic measurements using electric sounder tape and chalked steel tape by Oregon Water Resources Department personnel from October 1964 to March 1998; electronic data logger 120 minute interval May 14, 1999 to current year.

DATUM.--Elevation of land surface is 4220 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: top of recorder shelf, 2.42 ft above land surface datum.

REMARKS.--Unused. State observation well number 118. State well identification DESC 7620. Historical record prior to deepening available in USGS WSP 1845, pg. 77 and depicted on a hydrograph in USGS OFR 97-197, pg. 24, Figure 8. Entire historical record post-deepening, up to 1999 water year, available in the 1998 Water Data Report (WDR-OR-98-1).

PERIOD OF RECORD.--October 1964 to current year. Records between October 1964 and October 1965 are published in USGS WSP 1845, pg. 77; records between February 1966 and October 1970 are published in USGS WSP 1980, pg. 81; and records between January 1971 and October 1974 are published in USGS WSP 2161. Records between October 1964 and October 1997 are depicted on a hydrograph in USGS OFR 97-197, pg. 24, Fig. 8. Record for October 1985 is published in same OFR, pg. 65, Table 1.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.98 ft below land-surface datum, Oct. 24, 1984; lowest measurement, 41.63 ft below land-surface datum, Oct. 23, 1964.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 22.07 ft below land-surface datum, Oct. 27; lowest measurement, 27.13 ft below land-surface datum, Mar. 8-11, 13, 14.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

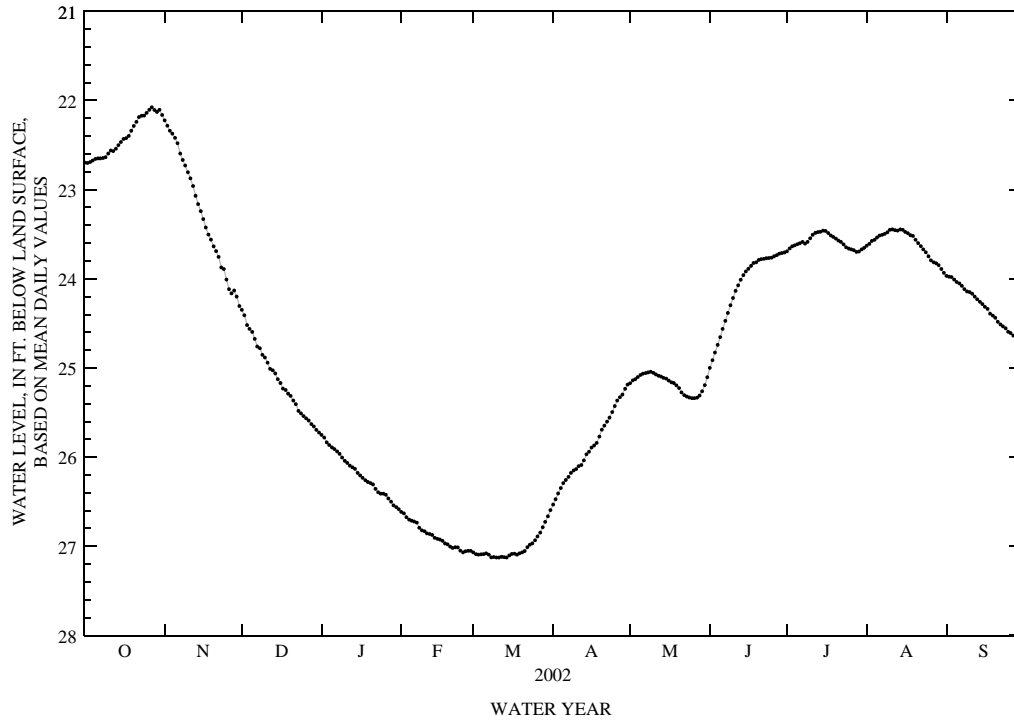
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.70	22.22	24.35	25.75	26.61	27.07	26.53	25.17	25.00	23.69	23.63	23.97
2	22.70	22.28	24.41	25.78	26.63	27.09	26.47	25.14	24.92	23.66	23.61	23.98
3	22.69	22.34	24.52	25.84	26.68	27.09	26.41	25.13	24.83	23.64	23.58	23.98
4	22.68	22.37	24.56	25.87	26.70	27.09	26.35	25.11	24.74	23.63	23.56	24.01
5	22.66	22.42	24.60	25.89	26.71	27.09	26.29	25.08	24.66	23.61	23.54	24.04
6	22.65	22.48	24.68	25.91	26.72	27.08	26.26	25.07	24.57	23.60	23.52	24.05
7	22.65	22.60	24.76	25.94	26.74	27.09	26.23	25.06	24.48	23.59	23.51	24.08
8	22.64	22.67	24.78	25.97	26.79	27.13	26.18	25.05	24.39	23.61	23.50	24.12
9	22.64	22.73	24.85	26.00	26.82	27.12	26.15	25.04	24.30	23.59	23.48	24.14
10	22.60	22.81	24.88	26.04	26.83	27.13	26.14	25.05	24.22	23.55	23.45	24.15
11	22.56	22.87	24.94	26.07	26.86	27.13	26.10	25.07	24.14	23.51	23.45	24.17
12	22.57	22.96	25.01	26.09	26.86	27.12	26.09	25.09	24.08	23.48	23.45	24.20
13	22.54	23.07	25.03	26.12	26.87	27.12	26.04	25.10	24.01	23.48	23.46	24.23
14	22.50	23.16	25.06	26.13	26.91	27.13	25.97	25.11	23.96	23.47	23.45	24.26
15	22.47	23.24	25.13	26.18	26.92	27.10	25.94	25.12	23.92	23.46	23.45	24.28
16	22.43	23.33	25.17	26.21	26.93	27.09	25.90	25.14	23.89	23.46	23.47	24.32
17	22.42	23.43	25.23	26.23	26.94	27.09	25.87	25.16	23.86	23.49	23.49	24.34
18	22.40	23.50	25.25	26.26	26.97	27.09	25.84	25.17	23.82	23.51	23.51	24.39
19	22.34	23.56	25.29	26.28	26.98	27.08	25.77	25.20	23.82	23.53	23.52	24.41
20	22.29	23.64	25.31	26.29	27.01	27.07	25.70	25.22	23.79	23.55	23.56	24.44
21	22.24	23.69	25.36	26.31	27.02	27.05	25.65	25.27	23.78	23.57	23.60	24.48
22	22.19	23.76	25.41	26.36	27.01	27.01	25.60	25.30	23.78	23.59	23.63	24.51
23	22.17	23.87	25.48	26.40	27.01	26.98	25.56	25.32	23.77	23.61	23.67	24.53
24	22.17	23.89	25.51	26.41	27.05	26.97	25.50	25.33	23.77	23.65	23.70	24.55
25	22.14	24.01	25.54	26.41	27.07	26.93	25.43	25.34	23.76	23.66	23.75	24.59
26	22.11	24.12	25.57	26.42	27.06	26.89	25.37	25.34	23.75	23.67	23.79	24.61
27	22.08	24.16	25.59	26.46	27.05	26.85	25.33	25.33	23.74	23.68	23.81	24.64
28	22.11	24.13	25.63	26.50	27.05	26.79	25.30	25.31	23.72	23.70	23.82	24.67
29	22.13	24.20	25.66	26.54	---	26.73	25.24	25.26	23.71	23.70	23.85	24.71
30	22.11	24.31	25.70	26.56	---	26.67	25.19	25.20	23.71	23.67	23.89	24.75
31	22.16	---	25.73	26.59	---	26.60	---	25.11	---	23.66	23.93	---
MEAN	22.41	23.26	25.13	26.19	26.89	27.02	25.88	25.17	24.10	23.59	23.60	24.32
MAX	22.70	24.31	25.73	26.59	27.07	27.13	26.53	25.34	25.00	23.70	23.93	24.75
MIN	22.08	22.22	24.35	25.75	26.61	26.60	25.19	25.04	23.71	23.46	23.45	23.97

GROUND WATER LEVELS

GROUND WATER LEVELS

DESCHUTES COUNTY--Continued

Well identifier continued: 434400121275801. Local number, 21S/11E-19CCC



## GROUND WATER LEVELS

## DESCHUTES COUNTY

442242121405501. Local number, 14S/09E-08ABA

LOCATION.--Lat 44°22'42", long 121°40'59", Hydrologic Unit 17070301, 2.8 mi southwest of the peak of Black Butte.

Owner: Kiewit Pacific Company.

AQUIFER.--Volcanic rock. Quarternary.

WELL CHARACTERISTICS.--Drilled industrial well, 6 inch casing to 335 ft, completed depth of 403 ft.

INSTRUMENTATION.--Electronic data logger 120-minute interval by Oregon Water Resources Department personnel from

November 1993 to May 1999 and by USGS personnel from May 1999 to current year.

DATUM.--Elevation of land surface is 3380 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: top of casing 1.65 ft above land-surface datum.

REMARKS.--Unused. State well identification DESC 1804. Water levels prior to Oct. 1, 1998 subject to variation of up to 0.32ft due to differences in measurement method. Mean monthly water level December 1993 to September 1998 available in 1998 Water Data Report (WDR-OR-98-1). A graph of unit value water levels from November 1993 to December 1996 is shown in USGS (Open File Report) OFR 97-197, pg. 10. Measurement August 1993 published in same publication, pg. 35, Table 1.

PERIOD OF RECORD.--May 1985; August 1993 to current year. Electronic data logger with 120-minute recording interval

November 23 to December 16, 1993; 15-minute interval December 16, 1993 to February 2, 1994; 120-minute interval

Feb. 2, 1994 to Aug. 13, 2002; 10-minute interval Aug. 13, 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 284.20 ft below land-surface datum, Oct. 8, 1997; lowest

measurement, 304.17 ft below land-surface datum, Feb. 1, 1995

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 292.34 ft below land-surface datum, Oct. 1, lowest measurement,

295.79 ft below land-surface datum, July 27.

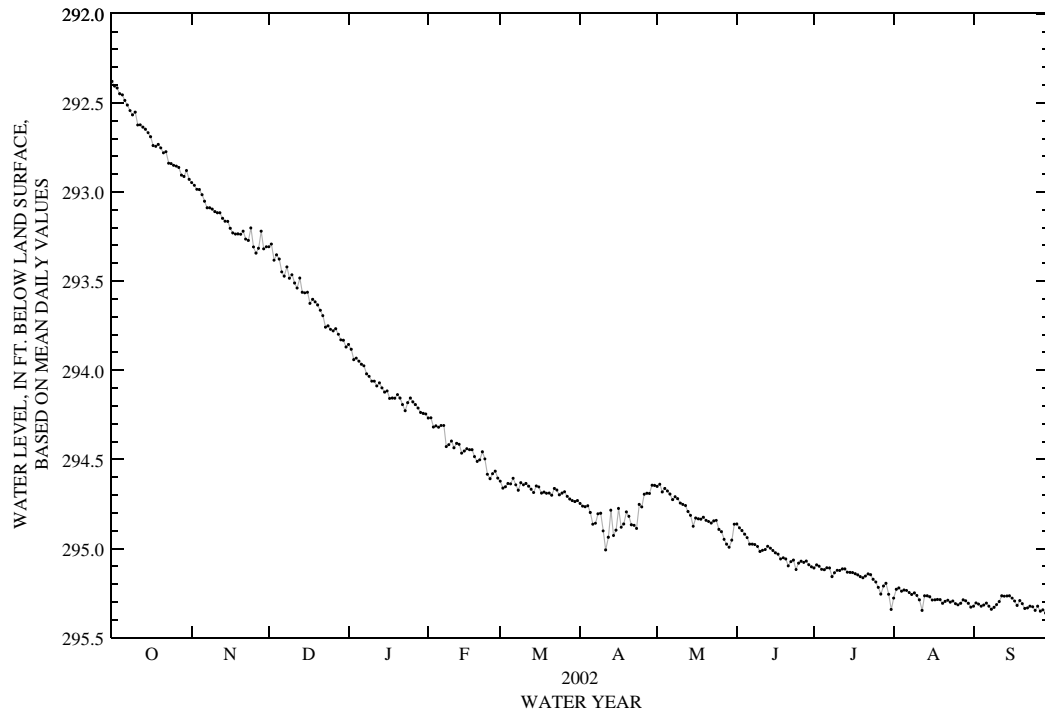
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292.38	292.95	293.31	293.86	294.27	294.62	294.75	294.65	294.86	295.11	295.28	295.32
2	292.41	292.96	293.29	293.88	294.27	294.66	294.76	294.64	294.88	295.09	295.23	295.30
3	292.42	292.99	293.38	293.94	294.32	294.65	294.77	294.68	294.90	295.10	295.22	295.31
4	292.45	292.99	293.35	293.93	294.31	294.63	294.76	294.66	294.92	295.12	295.24	295.32
5	292.46	293.02	293.38	293.95	294.32	294.64	294.80	294.68	294.94	295.12	295.23	295.32
6	292.49	293.05	293.45	293.97	294.31	294.61	294.86	294.69	294.98	295.11	295.24	295.31
7	292.51	293.09	293.47	293.98	294.31	294.64	294.86	294.73	294.98	295.11	295.25	295.32
8	292.54	293.09	293.42	294.02	294.43	294.67	294.81	294.71	294.98	295.16	295.26	295.34
9	292.57	293.10	293.48	294.03	294.42	294.63	294.80	294.72	294.99	295.14	295.25	295.33
10	292.55	293.11	293.46	294.06	294.40	294.64	294.90	294.75	295.02	295.12	295.26	295.31
11	292.62	293.12	293.51	294.06	294.44	294.63	295.01	294.75	295.01	295.12	295.29	295.30
12	292.62	293.12	293.54	294.09	294.41	294.65	294.94	294.76	295.01	295.11	295.35	295.27
13	292.64	293.15	293.48	294.07	294.42	294.67	294.79	294.79	294.99	295.11	295.26	295.27
14	292.65	293.16	293.56	294.10	294.46	294.69	294.93	294.81	295.00	295.13	295.27	295.27
15	292.67	293.17	293.57	294.12	294.45	294.65	294.90	294.88	295.01	295.13	295.27	295.26
16	292.69	293.20	293.56	294.12	294.44	294.65	294.78	294.83	295.02	295.13	295.29	295.28
17	292.74	293.23	293.63	294.16	294.45	294.69	294.88	294.83	295.03	295.14	295.29	295.29
18	292.74	293.24	293.60	294.16	294.45	294.68	294.86	294.84	295.06	295.15	295.29	295.32
19	292.73	293.24	293.62	294.16	294.49	294.69	294.80	294.83	295.05	295.16	295.29	295.29
20	292.75	293.24	293.63	294.14	294.51	294.69	294.82	294.84	295.06	295.16	295.31	295.31
21	292.78	293.22	293.66	294.16	294.50	294.70	294.87	294.85	295.10	295.15	295.30	295.34
22	292.77	293.26	293.69	294.19	294.46	294.66	294.87	294.86	295.07	295.14	295.29	295.33
23	292.84	293.27	293.76	294.23	294.50	294.67	294.89	294.85	295.07	295.15	295.30	295.32
24	292.84	293.20	293.75	294.18	294.58	294.70	294.75	294.84	295.12	295.17	295.29	295.33
25	292.85	293.31	293.77	294.16	294.61	294.69	294.77	294.89	295.08	295.19	295.31	295.35
26	292.85	293.34	293.78	294.18	294.58	294.68	294.70	294.91	295.07	295.22	295.32	295.32
27	292.86	293.32	293.77	294.19	294.57	294.71	294.69	294.95	295.08	295.26	295.31	295.35
28	292.91	293.22	293.80	294.21	294.60	294.72	294.69	294.98	295.07	295.21	295.29	295.34
29	292.91	293.32	293.83	294.24	---	294.73	294.65	294.99	295.09	295.19	295.29	295.36
30	292.88	293.31	293.83	294.24	---	294.74	294.65	294.95	295.10	295.26	295.31	295.38
31	292.93	---	293.87	294.25	---	294.73	---	294.86	---	295.34	295.33	---
MEAN	292.68	293.17	293.59	294.10	294.44	294.67	294.81	294.81	295.02	295.15	295.28	295.32
MAX	292.93	293.34	293.87	294.25	294.61	294.74	295.01	294.99	295.12	295.34	295.35	295.38
MIN	292.38	292.95	293.29	293.86	294.27	294.61	294.65	294.64	294.86	295.09	295.22	295.26

GROUND WATER LEVELS

DESCHUTES COUNTY--Continued

Well identifier continued: 442242121405501. Local number, 14S/09E-08ABA



## GROUND WATER LEVELS

## JACKSON COUNTY

420825123040401. Local number, 39S/03E-33BBA1.

LOCATION.--Lat 42°08'25", long 123°04'04", Hydrologic Unit 17100309, 1 mi north of McKee Bridge.

Owner: Jackson County Fire District.

AQUIFER.--Triassic and Permian volcanic and metovolcanic, rocks.

WELL CHARACTERISTICS.--Drilled domestic well, 6 inch casing 0 to 38 ft, completed depth of 260 ft.

INSTRUMENTATION.--Periodic measurements with chalked steel tape by USGS personnel since April 1999; periodic measurements with chalked steel tape by USGS personnel from June 1989 to August 1995.

DATUM.--Elevation of land surface is 1650 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: top of south bolt hole in cap, 1.10 ft above land surface datum.

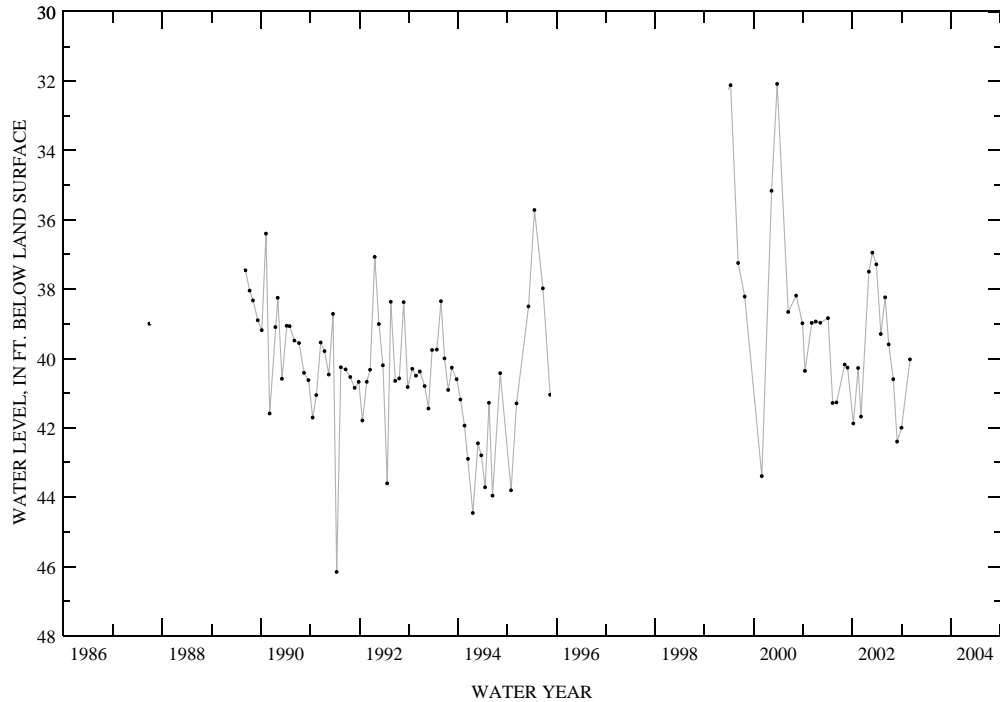
REMARKS.--Used. State well identification JACK 18427. Entire record from June 1987 to July 1999 published in the 1999 Water Data Report (WDR-OR-99-1).

PERIOD OF RECORD.--June 1987, June 1989 to June 1995, April 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.08 ft below land-surface datum, Mar.23, 2000; lowest measurement, 46.16 ft below land-surface datum, Apr. 15, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 09	41.88	FEB 01	37.50	MAY 01	39.30	AUG 02	40.60
NOV 14	40.28	28	36.95	JUN 03	38.24	30	42.40
DEC 06	41.68	MAR 29	37.29	28	39.60		



## GROUND WATER LEVELS

## LINN COUNTY

441508123053001. Local number, 15S/03W-19ACD

LOCATION.--Lat 44°15'08", long 123°05'31", Hydrologic Unit 17090003, 4 mi east of Harrisburg.

Owner: Roy Grimes.

AQUIFER.--Valley-fill deposits. Quarternary.

WELL CHARACTERISTICS.--Drilled irrigation well, 10 inch casing to 69 ft, completed depth of 98 ft, sounded depth of 82 ft on Sept. 23, 1998, perforated 21 to 29 ft, 34 to 65 ft.

INSTRUMENTATION.--Periodic measurements with chalked steel tape by USGS and Oregon Water Resources Department personnel since Feb. 1998; periodic measurements using electric sounder tape and steel tape by Oregon Water Resources Department personnel from June 1962 to January 1998.

DATUM.--Elevation of land surface is 327 ft above National Geodetic Vertical Datum of 1929 (from topographic map).  
Measuring point: southside top of casing 1.27 ft above land-surface datum.

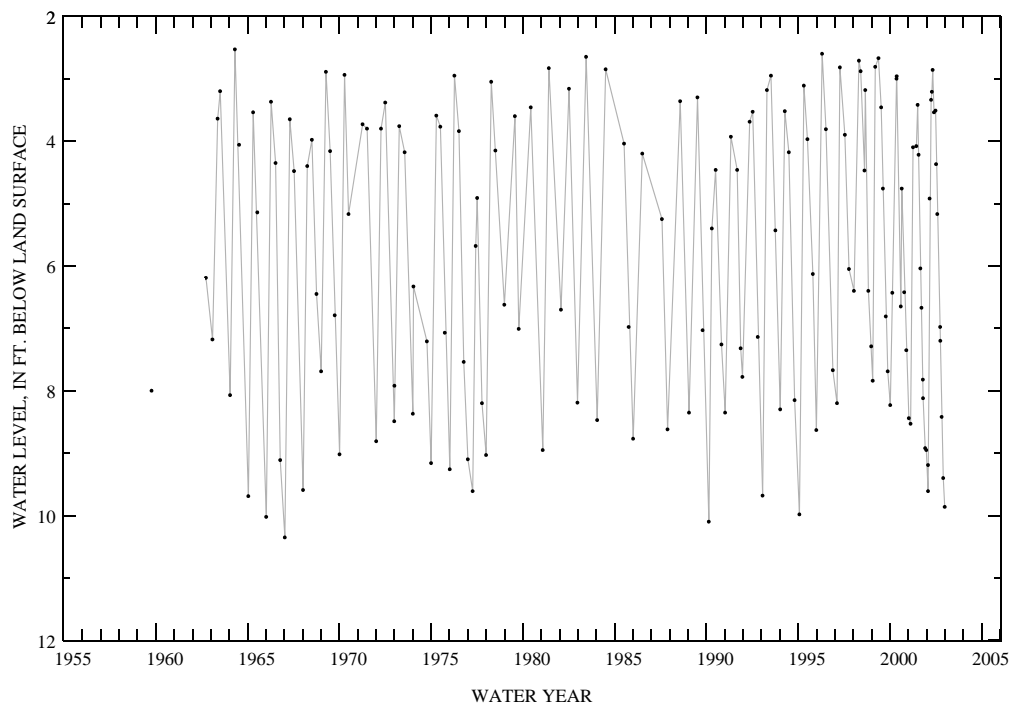
REMARKS.--Unused. State observation well number 510. State well identification LINN 14047. Entire record from July 1959 to September 1998 published in the 1998 Water Data Report (WDR-OR-98-1).

PERIOD OF RECORD.--July 1959, June 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.53 ft below land-surface datum, Jan. 21, 1964; lowest measurement, 10.35 ft below land-surface datum, Oct. 11, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM  
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Water Level	Date	Water Level	Date	Water Level	Date	Water Level
OCT 29	9.61	JAN 14	3.21	APR 08	4.37	JUL 26	8.42
OCT 31	9.19	29	2.86	30	5.17	AUG 28	9.40
NOV 28	4.92	FEB 26	3.54	JUN 27	6.98	SEP 26	9.86
DEC 28	3.34	MAR 26	3.51	JUL 02	7.20		





GROUND WATER LEVELS

MARION COUNTY

444956123031701. Local number, 08S/03W-33DAB

LOCATION.--Lat 44°49'55", long 123°03'16", Hydrologic Unit 17090007, 1 mile east of the summit of Bunker Hill.

Owner: Carma Myers.

AQUIFER.--Columbia River Basalt. Tertiary.

WELL CHARACTERISTICS.--Drilled domestic well, 8 inch casing to 83 ft, completed depth of 125 ft, sounded depth of 125 ft on Feb. 26, 1998.

INSTRUMENTATION.--Periodic measurements with chalked steel tape by USGS and Oregon Water Resources Department personnel since Feb. 26, 1998; periodic measurements using electric sounder tape and steel tape by Oregon Water Resources Department personnel from Sept. 1962 to Jan. 1998.

DATUM.--Elevation of land surface is 615 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Measuring point: eastside access porthole in steel cap atop casing, 0.6 ft above land-surface datum.

REMARKS.--Used for domestic supply year round. State observation well number 622. State well identification MARI 12958.

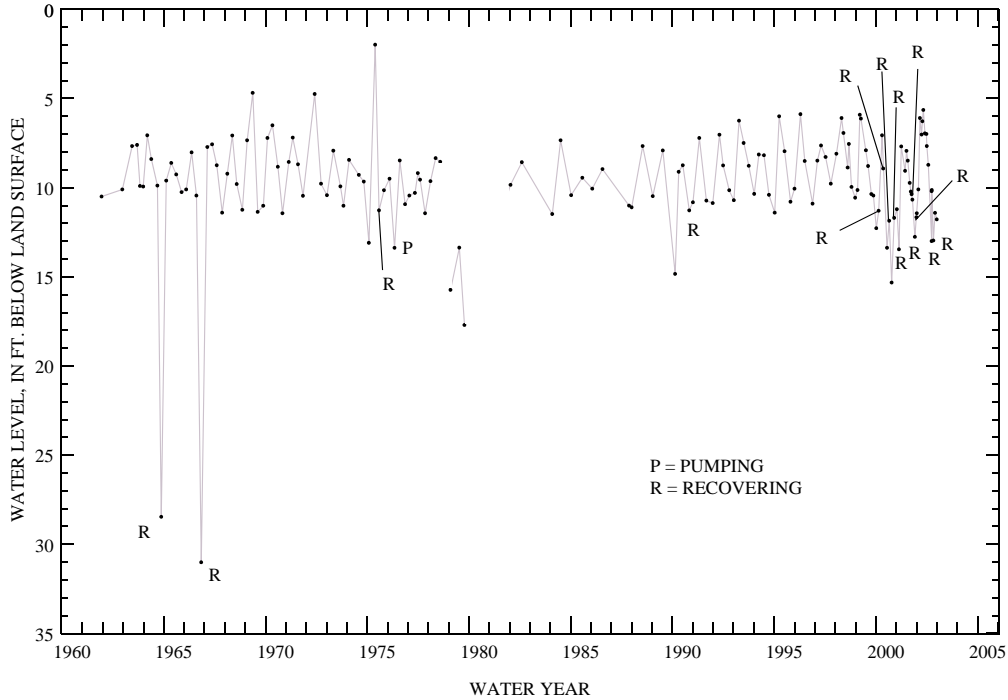
Entire record from September 1961 to September 1998 published in the 1998 Water Data Report (WDR-OR-98-1).

PERIOD OF RECORD.--September 1961 to July 1979, October 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.98 ft below land-surface datum, Feb. 20, 1975; lowest measurement, 31.02 ft below land-surface datum, Aug. 5, 1966 (recovering).

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM  
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Water Level	Date	Water Level	Date	Water Level	Date	Water Level
OCT 03	11.44	JAN 11	6.28	APR 01	7.67	JUL 01	10.13
31	10.10	29	5.64	30	8.72	26	12.97
NOV 28	6.10	FEB 26	6.96	JUN 27	13.00	AUG 28	11.42
DEC 28	7.02	MAR 26	6.99	28	10.20	SEP 26	11.78



## GROUND WATER LEVELS

## MULTNOMAH COUNTY

452822122372001. Local number, 01.00S/01.00E-24ADB01.

LOCATION.--Lat 45°28'22", long 122°37'20", Hydrologic Unit 17090012, in Berkeley Park, in Portland.

AQUIFER.--Unconsolidated sediments.

WELL CHARACTERISTICS.--Open interval from 102 ft to 122 ft, completed depth 124 ft.

INSTRUMENTATION.--Electronic data logger with 60-minute interval.

DATUM.--Elevation of land surface is 198 ft above NGVD of 1929 (from 2-foot contour map, City of Portland).

Measuring point: top of casing, 0.4 ft below land-surface datum.

REMARKS.--Unused. State well identification MULT 63234.

PERIOD OF RECORD.--July 2001 through current year. Periodic measurements from February to July 2001 are available at the Oregon District office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 98.39 ft below land-surface datum, July 14, 2001; lowest recorded, 101.25 ft below land-surface datum, April 14, 2002.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 99.44 ft below land-surface datum, Oct. 3; lowest recorded, 101.25 ft below land-surface datum, Apr.14.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), JULY TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	JUL	AUG	SEP
1	---	98.69	99.12
2	---	98.70	99.11
3	---	98.71	99.15
4	---	98.74	99.15
5	---	98.76	99.19
6	---	98.77	99.18
7	---	98.76	99.18
8	---	98.75	99.17
9	---	98.78	99.20
10	---	98.82	99.25
11	---	98.81	99.24
12	98.49	98.84	99.24
13	98.51	98.87	99.28
14	98.49	98.86	99.27
15	98.50	98.89	99.28
16	98.55	98.92	99.32
17	98.56	98.92	99.32
18	98.55	98.96	99.33
19	98.54	98.91	99.34
20	98.59	98.95	99.34
21	98.60	98.97	99.38
22	98.60	98.99	99.35
23	98.60	99.03	99.38
24	98.63	99.01	99.42
25	98.63	98.99	99.43
26	98.65	99.05	99.45
27	98.66	99.06	99.44
28	98.67	99.04	99.47
29	98.62	99.06	99.48
30	98.69	99.11	99.45
31	98.68	99.11	---
MEAN	---	98.90	99.30
MAX	---	99.11	99.48
MIN	---	98.69	99.11

## GROUND WATER LEVELS

MULTNOMAH COUNTY--Continued

Well identifier continued: 452822122372001. Local number, 01.00S/01.00E-24ADB01.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99.50	99.88	100.21	100.43	100.80	101.00	101.13	101.06	100.86	100.62	100.36	100.23
2	99.52	99.90	100.18	100.56	100.77	101.04	101.11	101.03	100.87	100.57	100.38	100.18
3	99.49	99.90	100.30	100.57	100.88	101.02	101.11	101.08	100.85	100.61	100.35	100.22
4	99.52	99.89	100.18	100.47	100.77	100.98	101.10	101.01	100.86	100.61	100.38	100.22
5	99.54	99.93	100.24	100.53	100.81	101.00	101.15	101.02	100.86	100.56	100.34	100.21
6	99.56	99.94	100.33	100.53	100.80	101.01	101.13	101.02	100.82	100.58	100.36	100.17
7	99.57	99.94	100.23	100.56	100.83	101.09	101.14	101.03	100.81	100.60	100.35	100.20
8	99.61	99.91	100.19	100.64	101.01	101.09	101.08	100.97	100.81	100.62	100.34	100.20
9	99.60	99.92	100.28	100.59	100.85	101.01	101.16	100.99	100.79	100.51	100.30	100.17
10	99.55	99.95	100.21	100.60	100.90	101.08	101.16	101.00	100.78	100.56	100.30	100.15
11	99.68	99.97	100.29	100.55	100.88	101.06	101.12	100.97	100.78	100.55	100.30	100.15
12	99.60	99.97	100.28	100.67	100.80	101.09	101.13	100.95	100.79	100.52	100.30	100.18
13	99.64	100.0	100.18	100.57	100.91	101.11	101.07	101.01	100.79	100.55	100.29	100.15
14	99.63	100.03	100.39	100.63	100.89	101.08	101.13	100.94	100.81	100.55	100.30	100.17
15	99.63	100.04	100.29	100.66	100.88	101.04	101.11	100.95	100.77	100.50	100.28	100.16
16	99.72	100.07	100.31	100.61	100.89	101.07	101.10	100.94	100.78	100.51	100.29	100.15
17	99.72	100.06	100.41	100.68	100.93	101.16	101.18	100.94	100.72	100.52	100.29	100.16
18	99.69	100.03	100.32	100.63	100.90	101.09	101.16	100.92	100.78	100.50	100.24	100.18
19	99.68	100.04	100.31	100.65	101.01	101.11	101.07	100.92	100.69	100.50	100.27	100.12
20	99.70	100.06	100.39	100.62	100.97	101.11	101.06	100.97	100.68	100.46	100.28	100.14
21	99.75	100.02	100.40	100.69	100.94	101.10	101.10	100.97	100.70	100.44	100.25	100.14
22	99.73	100.17	100.42	100.74	100.87	101.08	101.11	100.94	100.72	100.45	100.23	100.12
23	99.85	100.11	100.45	100.75	101.02	101.13	101.10	100.90	100.70	100.48	100.24	100.10
24	99.76	100.04	100.39	100.65	101.05	101.17	101.04	100.88	100.67	100.46	100.24	100.11
25	99.77	100.24	100.44	100.67	100.98	101.11	101.06	100.90	100.65	100.45	100.27	100.11
26	99.78	100.19	100.39	100.75	100.97	101.11	101.02	100.88	100.65	100.42	100.25	100.09
27	99.84	100.08	100.38	100.78	100.95	101.14	101.10	100.90	100.66	100.42	100.22	100.12
28	99.84	100.00	100.46	100.79	101.01	101.13	101.08	100.91	100.61	100.41	100.21	100.07
29	99.81	100.27	100.49	100.79	---	101.12	101.01	100.94	100.68	100.38	100.27	100.13
30	99.79	100.13	100.44	100.77	---	101.11	101.05	100.89	100.65	100.41	100.25	100.12
31	99.91	---	100.50	100.77	---	101.13	---	100.85	---	100.39	100.25	---
MEAN	99.68	100.02	100.33	100.64	100.90	101.08	101.10	100.96	100.75	100.51	100.29	100.15
MAX	99.91	100.27	100.50	100.79	101.05	101.17	101.18	101.08	100.87	100.62	100.38	100.23
MIN	99.49	99.88	100.18	100.43	100.77	100.98	101.01	100.85	100.61	100.38	100.21	100.07

WTR YR 2002 MEAN 100.53 HIGH 99.49 LOW 101.18

## GROUND WATER LEVELS

## MULTNOMAH COUNTY

452825122355501. Local number, 01.00S/02.00E-19AAD01

LOCATION.--Lat 45°28'25", long 122°35'55", Hydrologic Unit 17090012, in Brentwood Park, in Portland.

AQUIFER.--Unconsolidated sediments.

WELL CHARACTERISTICS.--Open interval from 134 ft to 154 ft, completed depth 156 ft.

INSTRUMENTATION.--Electronic data logger with 60-minute interval.

DATUM.--Elevation of land surface is 258 ft above NGVD of 1929 (from 2-foot contour map, City of Portland).

Measuring point: top of casing, 0.3 ft below land-surface datum.

REMARKS.--Unused. State well identification MULT 63294

PERIOD OF RECORD.--July 2001 to current year. Periodic measurements from February to July 2001 are available at the Oregon District office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 119.60 ft below land-surface datum, July 21, 2002; lowest recorded, 124.35 ft below land-surface datum, Dec. 16, 2001.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 119.60 ft below land-surface datum, July 21; lowest recorded, 124.35 ft below land-surface datum, Dec. 16.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), JULY TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	JUL	AUG	SEP
1	---	121.99	122.51
2	---	122.01	122.52
3	---	122.02	122.54
4	---	122.04	122.57
5	---	122.05	122.58
6	---	122.07	122.59
7	---	122.08	122.61
8	---	122.10	122.63
9	---	122.11	122.65
10	---	122.13	122.67
11	---	122.15	122.68
12	121.72	122.18	122.70
13	121.75	122.19	122.72
14	121.76	122.20	122.74
15	121.78	122.23	122.75
16	121.80	122.24	122.77
17	121.82	122.25	122.78
18	121.84	122.28	122.80
19	121.84	122.29	122.82
20	121.87	122.31	122.84
21	121.87	122.33	122.85
22	121.88	122.35	122.87
23	121.89	122.36	122.89
24	121.91	122.37	122.90
25	121.92	122.39	122.92
26	121.94	122.41	122.94
27	121.95	122.42	122.96
28	121.94	122.44	122.98
29	121.94	122.47	123.00
30	121.97	122.49	123.02
31	121.98	122.50	---
MEAN	---	122.24	122.76
MAX	---	122.50	123.02
MIN	---	121.99	122.51

GROUND WATER LEVELS  
MULTNOMAH COUNTY--Continued

Well identifier continued: 452825122355501. Local number, 01.00S/02.00E-19AAD01.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123.03	123.59	124.12	124.27	123.92	123.26	122.24	121.07	120.18	119.75	119.66	119.85
2	123.05	123.61	124.12	124.28	123.91	123.25	122.21	121.02	120.16	119.73	119.66	119.85
3	123.07	123.63	124.13	124.27	123.90	123.22	122.16	121.00	120.14	119.73	119.65	119.86
4	123.10	123.65	124.14	124.25	123.86	123.17	122.11	120.97	120.12	119.72	119.67	119.88
5	123.11	123.67	124.16	124.26	123.85	123.14	122.09	120.93	120.09	119.71	119.67	119.89
6	123.12	123.68	124.18	124.26	123.83	123.12	122.04	120.90	120.07	119.71	119.68	119.89
7	123.14	123.70	124.17	124.26	123.81	123.09	122.01	120.87	120.05	119.71	119.69	119.91
8	123.17	123.71	124.19	124.25	123.81	123.06	121.96	120.82	120.03	119.72	119.69	119.92
9	123.18	123.73	124.20	124.24	123.77	123.03	121.93	120.79	120.02	119.69	119.68	119.93
10	123.20	123.76	124.21	124.23	123.77	123.01	121.89	120.76	119.99	119.70	119.69	119.94
11	123.22	123.78	124.23	124.21	123.72	122.97	121.84	120.73	119.98	119.68	119.70	119.94
12	123.23	123.79	124.23	124.22	123.70	122.94	121.81	120.69	119.96	119.66	119.70	119.97
13	123.25	123.80	124.22	124.19	123.68	122.91	121.76	120.68	119.94	119.66	119.70	119.98
14	123.27	123.82	124.25	124.19	123.65	122.88	121.72	120.64	119.93	119.66	119.71	120.00
15	123.29	123.84	124.25	124.18	123.63	122.84	121.68	120.61	119.91	119.65	119.72	120.01
16	123.31	123.85	124.27	124.17	123.60	122.81	121.65	120.58	119.90	119.65	119.73	120.02
17	123.33	123.88	124.27	124.16	123.58	122.79	121.61	120.55	119.88	119.65	119.74	120.04
18	123.34	123.90	124.28	124.14	123.54	122.75	121.57	120.52	119.88	119.65	119.73	120.06
19	123.36	123.90	124.28	124.13	123.54	122.72	121.52	120.48	119.85	119.65	119.75	120.07
20	123.36	123.92	124.30	124.12	123.51	122.70	121.48	120.47	119.84	119.64	119.76	120.09
21	123.40	123.93	124.29	124.11	123.48	122.66	121.44	120.44	119.83	119.63	119.77	120.10
22	123.41	123.96	124.30	124.09	123.44	122.61	121.41	120.41	119.83	119.64	119.77	120.11
23	123.43	123.96	124.30	124.08	123.43	122.59	121.37	120.39	119.82	119.66	119.78	120.12
24	123.44	123.98	124.29	124.05	123.41	122.55	121.32	120.36	119.80	119.66	119.79	120.13
25	123.46	124.02	124.30	124.03	123.38	122.50	121.28	120.33	119.78	119.67	119.80	120.15
26	123.48	124.03	124.29	124.03	123.34	122.47	121.23	120.31	119.78	119.65	119.80	120.15
27	123.50	124.03	124.29	124.01	123.31	122.43	121.20	120.29	119.77	119.65	119.80	120.18
28	123.53	124.04	124.29	124.00	123.30	122.39	121.17	120.28	119.74	119.66	119.79	120.18
29	123.54	124.08	124.29	123.98	---	122.35	121.13	120.26	119.76	119.65	119.82	120.21
30	123.55	124.08	124.28	123.96	---	122.31	121.10	120.24	119.76	119.65	119.82	120.23
31	123.58	---	124.29	123.94	---	122.28	---	120.21	---	119.67	119.84	---
MEAN	123.30	123.84	124.24	124.15	123.63	122.80	121.66	120.60	119.93	119.67	119.73	120.02
MAX	123.58	124.08	124.30	124.28	123.92	123.26	122.24	121.07	120.18	119.75	119.84	120.23
MIN	123.03	123.59	124.12	123.94	123.30	122.28	121.10	120.21	119.74	119.63	119.65	119.85
WTR YR 2002	MEAN	121.96	HIGH	119.63	LOW	124.30						

## GROUND WATER LEVELS

## MULTNOMAH COUNTY

452827122382402. Local number, 01.00S/01.00E-24BBC02.

LOCATION.--Lat 45°28'27", long 122°38'24", Hydrologic Unit 17090012, in Westmoreland Park, in Portland.

AQUIFER.--Unconsolidated sediments.

WELL CHARACTERISTICS.--Open interval from 76 ft to 96 ft, completed depth 98 ft.

INSTRUMENTATION.--Electronic data logger with 60-minute interval.

DATUM.--Elevation of land surface is 53 ft above NGVD of 1929 (from 2-foot contour map, City of Portland).

Measuring point: top of casing, 0.3 ft below land-surface datum.

REMARKS.--Unused. State well identification MULT 63239.

PERIOD OF RECORD.--August 2001 to current year. Periodic measurements from February to July 2001 are available at the Oregon District office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 9.30 ft below land-surface datum, March 13, 2002; lowest recorded, 11.96 ft below land-surface datum, Oct. 9, 2001.

EXTREMES FOR CURRENT YEAR.-- Highest water level recorded, 9.30 ft below land-surface datum, March 13; lowest recorded, 11.96 ft below land-surface datum, Oct. 9.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), AUGUST TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	AUG	SEP
1	---	11.61
2	---	11.59
3	---	11.62
4	---	11.62
5	---	11.66
6	---	11.67
7	---	11.64
8	---	11.61
9	---	11.61
10	---	11.67
11	---	11.69
12	---	11.68
13	---	11.72
14	---	11.72
15	---	11.70
16	11.59	11.72
17	11.60	11.73
18	11.62	11.72
19	11.58	11.72
20	11.56	11.70
21	11.56	11.73
22	11.54	11.70
23	11.53	11.68
24	11.53	11.73
25	11.51	11.71
26	11.54	11.68
27	11.59	11.66
28	11.57	11.69
29	11.55	11.80
30	11.56	11.78
31	11.61	---
MEAN	---	11.69
MAX	---	11.80
MIN	---	11.59

## GROUND WATER LEVELS

MULTNOMAH COUNTY--Continued

Well identifier continued: 452827122382402. Local number, 01.00S/01.00E-24BBC02.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.82	11.44	9.99	10.32	9.85	10.29	10.12	10.11	10.17	10.22	10.85	11.22
2	11.87	11.44	9.88	10.22	9.86	10.35	10.12	10.09	10.21	10.19	10.90	11.17
3	11.85	11.45	10.06	10.34	10.0	10.37	10.11	10.19	10.20	10.21	10.88	11.19
4	11.81	11.44	9.96	10.30	10.02	10.34	10.12	10.18	10.25	10.28	10.93	11.22
5	11.87	11.42	9.81	10.27	10.00	10.31	10.19	10.15	10.24	10.28	10.94	11.23
6	11.92	11.35	10.01	10.07	9.98	10.09	10.22	10.20	10.23	10.32	10.96	11.19
7	11.91	11.42	10.10	9.66	9.77	9.97	10.26	10.25	10.15	10.38	10.96	11.22
8	11.91	11.40	10.0	9.49	9.69	10.08	10.24	10.22	10.12	10.48	10.98	11.25
9	11.92	11.38	10.18	9.62	9.72	10.00	10.25	10.20	10.10	10.44	10.94	11.25
10	11.83	11.40	10.14	9.73	9.74	10.05	10.26	10.25	10.11	10.45	10.91	11.22
11	11.85	11.38	10.23	9.78	9.90	9.87	10.15	10.27	10.12	10.51	10.93	11.21
12	11.90	11.35	10.31	9.91	9.86	9.45	10.16	10.24	10.13	10.50	10.95	11.25
13	11.87	11.33	10.03	10.00	9.94	9.36	10.08	10.33	10.16	10.51	10.97	11.27
14	11.82	11.18	9.80	10.02	10.06	9.43	9.97	10.33	10.23	10.57	10.98	11.30
15	11.79	11.12	9.86	10.17	10.05	9.40	9.91	10.30	10.25	10.56	11.02	11.32
16	11.80	11.12	9.75	10.17	10.09	9.46	9.85	10.29	10.27	10.57	11.06	11.30
17	11.84	11.08	9.68	10.23	10.13	9.63	9.85	10.32	10.25	10.62	11.06	11.26
18	11.75	11.06	9.65	10.24	10.21	9.73	9.86	10.26	10.24	10.63	11.07	11.32
19	11.67	10.98	9.70	10.22	10.24	9.57	9.78	10.26	10.23	10.64	11.07	11.26
20	11.66	10.93	9.72	10.14	10.28	9.48	9.72	10.32	10.16	10.64	11.10	11.27
21	11.68	10.85	9.82	10.07	10.24	9.56	9.77	10.38	10.15	10.63	11.11	11.27
22	11.65	10.69	9.87	10.05	10.16	9.59	9.85	10.38	10.19	10.62	11.08	11.28
23	11.75	10.74	10.10	10.12	9.91	9.71	9.93	10.33	10.22	10.70	11.09	11.28
24	11.73	10.60	10.12	10.05	10.03	9.89	9.90	10.25	10.23	10.74	11.11	11.27
25	11.68	10.82	10.21	9.62	10.10	9.94	9.89	10.24	10.22	10.77	11.15	11.30
26	11.67	10.96	10.23	9.47	10.14	9.97	9.87	10.25	10.23	10.76	11.15	11.27
27	11.66	10.90	10.20	9.46	10.18	10.04	9.91	10.26	10.29	10.79	11.10	11.30
28	11.66	10.41	10.29	9.52	10.23	10.06	10.02	10.28	10.24	10.81	11.08	11.31
29	11.62	10.32	10.35	9.67	---	10.08	10.00	10.26	10.18	10.82	11.12	11.35
30	11.43	10.27	10.37	9.74	---	10.09	10.03	10.24	10.19	10.84	11.19	11.37
31	11.42	---	10.44	9.78	---	10.10	---	10.20	---	10.88	11.21	---
MEAN	11.76	11.07	10.03	9.95	10.01	9.88	10.01	10.25	10.20	10.56	11.03	11.26
MAX	11.92	11.45	10.44	10.34	10.28	10.37	10.26	10.38	10.29	10.88	11.21	11.37
MIN	11.42	10.27	9.65	9.46	9.69	9.36	9.72	10.09	10.10	10.19	10.85	11.17

WTR YR 2002 MEAN 10.50 HIGH 9.36 LOW 11.92

## GROUND WATER LEVELS

## MULTNOMAH COUNTY

452859122364701. Local number, 01.00S/02.00E-18CAB01

LOCATION.--Lat 45°28'59", long 122°36'47", Hydrologic Unit 17090012, in Woodstock Park, in Portland.

AQUIFER.--Unconsolidated sediments.

WELL CHARACTERISTICS.--Open interval from 147 ft to 167 ft, completed depth 169 ft.

INSTRUMENTATION.--Electronic data logger with 60-minute interval.

DATUM.--Elevation of land surface is 241 ft above NGVD of 1929 (from 2-foot contour map, City of Portland).

Measuring point: top of casing, 0.3 ft below land-surface datum.

REMARKS.--Unused. State well identification MULT 63237.

PERIOD OF RECORD.--July 2001 to current year. Periodic measurements from February to July 2001 are available at the Oregon District office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 130.04 ft below land-surface datum, July 12, 2001; lowest recorded, 133.26 ft below land-surface datum, Feb. 23, 2002.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 131.17 ft below land-surface datum, Sept. 26; lowest recorded, 133.26 ft below land-surface datum, Feb. 23.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), JULY TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	JUL	AUG	SEP
1	---	130.37	130.90
2	---	130.38	130.89
3	---	130.40	130.93
4	---	130.43	130.94
5	---	130.45	130.97
6	---	130.47	130.97
7	---	130.46	130.97
8	---	130.46	130.97
9	---	130.50	130.99
10	---	130.54	131.04
11	---	130.53	131.04
12	130.09	130.56	131.05
13	130.12	130.59	131.09
14	130.12	130.58	131.09
15	130.13	130.62	131.10
16	130.17	130.65	131.13
17	130.19	130.64	131.14
18	130.19	130.67	131.15
19	130.19	130.65	131.16
20	130.24	130.69	131.17
21	130.24	130.70	131.21
22	130.25	130.73	131.19
23	130.25	130.77	131.22
24	130.29	130.76	131.25
25	130.29	130.76	131.27
26	130.31	130.81	131.29
27	130.32	130.81	131.28
28	130.33	130.80	131.32
29	130.30	130.82	131.33
30	130.36	130.87	131.32
31	130.36	130.87	---
MEAN	---	130.62	131.11
MAX	---	130.87	131.33
MIN	---	130.37	130.89



## GROUND WATER LEVELS

MULTNOMAH COUNTY--Continued

Well identifier continued: 452859122364701. Local number, 01.00S/02.00E-18CAB01

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131.38	131.86	132.33	132.70	133.04	133.11	132.89	132.52	132.09	131.71	131.43	131.29
2	131.39	131.89	132.30	132.80	133.02	133.13	132.87	132.48	132.08	131.67	131.44	131.25
3	131.38	131.90	132.39	132.81	133.10	133.11	132.86	132.51	132.06	131.70	131.42	131.28
4	131.41	131.89	132.32	132.73	133.01	133.07	132.83	132.44	132.05	131.69	131.44	131.29
5	131.43	131.93	132.37	132.78	133.05	133.08	132.88	132.44	132.06	131.65	131.41	131.27
6	131.45	131.95	132.46	132.79	133.03	133.08	132.85	132.44	132.02	131.65	131.43	131.25
7	131.46	131.94	132.39	132.82	133.05	133.13	132.84	132.44	132.00	131.67	131.41	131.28
8	131.50	131.94	132.37	132.87	133.18	133.12	132.78	132.39	131.99	131.68	131.40	131.28
9	131.50	131.95	132.44	132.85	133.06	133.05	132.84	132.39	131.98	131.59	131.37	131.25
10	131.46	131.98	132.41	132.85	133.11	133.10	132.82	132.39	131.96	131.63	131.38	131.25
11	131.57	132.00	132.48	132.81	133.08	133.07	132.78	132.36	131.94	131.62	131.37	131.24
12	131.52	132.01	132.47	132.92	133.02	133.08	132.77	132.34	131.94	131.59	131.37	131.27
13	131.55	132.04	132.40	132.83	133.11	133.09	132.72	132.38	131.94	131.61	131.36	131.25
14	131.56	132.07	132.57	132.89	133.09	133.05	132.76	132.31	131.95	131.61	131.37	131.28
15	131.55	132.09	132.51	132.91	133.08	133.01	132.73	132.30	131.91	131.57	131.36	131.27
16	131.64	132.11	132.52	132.88	133.08	133.02	132.71	132.28	131.91	131.57	131.37	131.25
17	131.64	132.11	132.60	132.93	133.11	133.08	132.76	132.27	131.86	131.57	131.36	131.27
18	131.63	132.11	132.54	132.90	133.08	133.01	132.73	132.25	131.90	131.56	131.32	131.29
19	131.63	132.11	132.53	132.92	133.17	133.02	132.66	132.25	131.82	131.56	131.35	131.24
20	131.65	132.13	132.62	132.90	133.14	133.01	132.64	132.28	131.81	131.52	131.35	131.27
21	131.70	132.10	132.62	132.95	133.11	132.99	132.67	132.26	131.82	131.50	131.33	131.27
22	131.69	132.24	132.64	132.99	133.05	132.97	132.66	132.23	131.83	131.51	131.32	131.26
23	131.78	132.18	132.66	133.00	133.16	133.00	132.64	132.19	131.80	131.54	131.32	131.25
24	131.72	132.15	132.62	132.92	133.18	133.02	132.58	132.17	131.78	131.52	131.32	131.26
25	131.73	132.30	132.66	132.94	133.11	132.96	132.57	132.17	131.76	131.51	131.35	131.25
26	131.74	132.27	132.63	133.00	133.10	132.95	132.53	132.16	131.76	131.49	131.32	131.23
27	131.79	132.20	132.64	133.03	133.08	132.96	132.59	132.15	131.75	131.48	131.28	131.27
28	131.80	132.13	132.70	133.04	133.12	132.93	132.56	132.15	131.71	131.48	131.27	131.24
29	131.79	132.35	132.73	133.03	---	132.92	132.50	132.16	131.76	131.45	131.32	131.29
30	131.78	132.25	132.70	133.02	---	132.90	132.53	132.12	131.74	131.47	131.31	131.29
31	131.87	---	132.75	133.02	---	132.90	---	132.08	---	131.45	131.30	---
MEAN	131.60	132.07	132.53	132.90	133.09	133.03	132.72	132.30	131.90	131.57	131.36	131.26
MAX	131.87	132.35	132.75	133.04	133.18	133.13	132.89	132.52	132.09	131.71	131.44	131.29
MIN	131.38	131.86	132.30	132.70	133.01	132.90	132.50	132.08	131.71	131.45	131.27	131.23

WTR YR 2002 MEAN 132.19 HIGH 131.23 LOW 133.18

## GROUND WATER LEVELS

## MULTNOMAH COUNTY

452912122312801 Local number, 01.00S/02.00E-14ABC01

LOCATION.--Lat 45°29'12", long 122°31'28", Hydrologic Unit 17090012, 1.0 mile west of Powell Butte.

AQUIFER.--Unconsolidated sediments.

WELL CHARACTERISTICS.--Unused domestic well, open interval from 50 ft to 58 f., completed depth 59 ft.

INSTRUMENTATION.--Electronic data logger with 60-minute interval.

DATUM.--Elevation of land surface is 229 ft above National Geodetic Vertical Datum of 1929 (from 2-foot contour map, City of Portland).

Measuring point: top of instrument shelf, 1.4 ft above land-surface datum.

REMARKS.--Unused. State well identification MULT 2881.

PERIOD OF RECORD.--October 1998 to current year. Periodic measurements with steel tape from 1987-89, and 1998 are available at the Oregon District office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 36.43 ft below land-surface datum, March 8, 1999; lowest recorded, 48.70 ft below land-surface datum, Oct. 29, 2001.

EXTREMES FOR 1999 WATER YEAR. -- Highest water level recorded, 36.43 ft below land-surface datum, March 8; lowest recorded, 45.04 ft below land-surface datum, Nov. 1-2.

EXTREMES FOR 2000 WATER YEAR. -- Highest water level recorded, 40.61 ft below land-surface datum, April 3; lowest recorded, 46.16 ft below land-surface datum, Sept. 29-30.

EXTREMES FOR 2001 WATER YEAR. -- Highest water level recorded, 45.06 ft below land-surface datum, May 11; lowest recorded, 48.35 ft below land-surface datum, Sept. 26.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 39.86 ft below land-surface datum, March 22; lowest recorded, 48.70 ft below land-surface datum, Oct. 29.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	44.96	43.32	41.54	39.77	37.41	37.64	38.51	39.44	40.97	42.70	43.64
2	44.52	44.91	43.19	41.47	39.47	36.93	37.59	38.39	39.50	41.03	42.81	43.66
3	44.53	44.79	43.12	41.41	39.23	36.94	37.60	38.43	39.59	41.12	42.89	43.69
4	44.57	44.74	43.11	41.42	39.32	36.99	37.59	38.64	39.65	41.25	42.91	43.69
5	44.56	44.74	42.90	41.39	39.32	36.88	37.55	38.69	39.67	41.28	42.93	43.67
6	44.48	44.60	42.97	41.38	39.04	36.70	37.63	38.64	39.75	41.36	42.90	43.70
7	44.46	---	42.79	41.34	38.98	36.71	37.52	38.78	39.77	41.51	42.85	43.73
8	44.56	---	42.94	41.21	38.80	36.54	37.65	38.77	39.82	41.49	42.84	43.80
9	44.54	---	42.83	41.30	38.53	36.59	37.82	38.77	39.90	41.56	42.91	43.94
10	44.62	---	42.75	41.31	38.67	36.55	37.71	38.74	40.08	41.64	43.02	43.98
11	44.60	---	42.65	41.28	38.66	36.82	37.73	38.74	40.18	41.65	43.16	43.99
12	44.61	---	42.57	41.42	38.66	36.86	37.85	38.81	40.32	---	43.16	43.99
13	44.62	---	42.46	41.36	38.75	36.74	38.12	38.91	40.45	---	43.15	44.08
14	44.61	---	42.55	41.26	38.71	36.82	38.19	38.94	40.46	---	43.07	44.09
15	44.64	---	42.46	41.24	38.54	36.83	38.07	39.04	40.59	---	43.09	44.17
16	44.66	---	42.42	41.19	38.45	37.06	38.12	39.03	40.60	---	43.16	44.19
17	44.61	44.71	42.36	40.89	38.67	36.99	38.18	39.00	40.66	---	43.29	44.22
18	44.67	44.78	42.35	40.77	38.41	37.01	38.20	38.99	40.66	---	43.24	44.23
19	44.72	44.76	42.33	40.60	38.60	37.08	38.22	39.00	40.55	---	43.40	44.27
20	44.76	44.67	42.51	40.37	38.24	37.04	38.35	39.04	40.47	---	43.47	44.36
21	44.69	44.54	42.43	40.48	38.35	37.08	38.42	39.12	40.50	---	43.42	44.37
22	44.72	44.55	42.42	40.18	38.30	37.06	38.57	39.13	40.57	---	43.35	44.39
23	44.74	44.41	42.35	40.12	38.15	37.18	38.59	39.07	40.51	---	43.47	44.42
24	44.72	44.39	42.32	40.13	37.93	37.24	38.62	39.15	40.50	---	43.57	44.44
25	44.83	44.16	42.22	39.80	38.00	37.38	38.61	39.28	40.55	42.44	43.61	44.54
26	44.82	44.04	42.32	39.99	37.98	37.49	38.60	39.26	40.54	42.44	43.64	44.56
27	44.81	43.81	42.07	39.96	37.70	37.53	38.65	39.30	40.57	42.49	43.64	44.56
28	44.85	43.63	41.94	39.82	37.52	37.48	38.80	39.34	40.63	42.55	43.64	44.59
29	44.89	43.62	41.70	39.78	---	37.38	38.62	39.41	40.80	42.59	43.63	44.62
30	44.94	43.42	41.50	39.68	---	37.34	38.53	39.48	40.91	42.66	43.66	44.70
31	44.94	---	41.56	39.72	---	37.50	---	39.46	---	42.66	43.63	---
MEAN	---	---	42.50	40.77	38.60	37.04	38.11	38.96	40.27	---	43.23	44.14
MAX	---	---	43.32	41.54	39.77	37.53	38.80	39.48	40.91	---	43.66	44.70
MIN	---	---	41.50	39.68	37.52	36.54	37.52	38.39	39.44	---	42.70	43.64

## GROUND WATER LEVELS

## MULTNOMAH COUNTY--Continued

Well identifier continued: 452912122312801Local number, 01.00S/02.00E-14ABC01

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44.74	45.55	44.91	44.10	43.00	41.99	40.74	40.96	---	42.70	44.23	45.35
2	44.79	45.56	44.94	44.18	42.93	42.00	40.71	40.94	---	42.68	44.24	45.39
3	44.84	45.56	44.99	44.18	42.77	41.91	40.65	40.97	---	42.75	44.24	45.41
4	44.88	45.59	44.91	44.16	42.76	41.80	40.74	41.00	---	42.68	44.30	45.43
5	44.92	45.58	44.93	44.20	42.74	41.72	40.73	41.02	41.55	42.71	44.37	45.55
6	44.98	45.44	44.86	44.11	42.79	41.69	40.75	41.01	41.56	42.77	44.39	45.55
7	45.04	45.42	44.84	44.08	42.72	41.51	40.77	41.01	41.54	42.94	44.43	45.50
8	45.06	45.37	44.67	44.08	42.58	41.44	40.70	41.03	41.56	43.07	44.43	45.51
9	45.11	45.28	44.65	43.99	42.35	41.46	40.78	40.99	41.59	43.15	44.49	45.53
10	45.08	45.38	44.62	43.89	42.40	41.41	40.78	41.02	41.64	43.20	44.55	45.52
11	45.12	45.40	44.56	43.88	42.38	41.48	40.75	41.09	41.62	43.26	44.49	45.62
12	45.19	45.45	44.46	43.86	42.36	41.35	40.76	41.07	41.65	43.31	44.59	45.61
13	45.21	45.43	44.54	43.63	42.26	41.33	40.72	40.99	41.74	43.41	44.63	45.63
14	45.26	45.39	44.47	43.53	42.21	41.52	40.68	40.95	41.73	43.46	44.68	45.72
15	45.30	45.37	44.46	43.36	42.22	41.45	40.70	41.04	41.76	43.47	44.77	45.79
16	45.24	45.22	44.43	43.28	42.05	41.54	40.71	41.09	41.71	43.47	44.75	45.62
17	45.31	45.19	44.24	43.35	42.22	41.57	40.68	41.20	41.67	43.56	44.74	45.58
18	45.34	45.26	44.31	43.26	42.25	41.25	40.79	41.19	41.74	43.66	44.83	45.66
19	45.38	45.25	44.24	43.17	42.15	41.14	40.88	41.21	41.83	43.67	44.82	45.79
20	45.41	45.31	44.18	43.05	42.06	41.13	40.87	41.20	41.84	43.68	44.88	45.76
21	45.43	45.34	44.12	43.08	42.11	41.01	40.79	41.20	41.90	43.70	44.91	45.77
22	45.37	45.37	44.14	43.14	42.11	40.86	40.90	41.23	41.95	43.81	44.96	45.90
23	45.33	45.41	44.19	43.09	42.17	40.90	40.96	41.25	42.02	43.86	45.03	45.96
24	45.22	45.36	44.18	43.06	42.17	40.74	40.93	41.23	42.11	43.86	45.14	45.96
25	45.24	45.17	44.17	43.09	42.18	40.81	40.93	41.23	42.12	43.90	45.18	46.01
26	45.44	45.00	44.11	43.14	42.07	40.75	40.89	41.24	42.19	43.91	45.22	46.04
27	45.36	44.91	44.16	43.14	42.00	40.70	40.85	41.30	42.43	43.98	45.26	46.07
28	45.43	44.89	44.15	43.06	42.02	40.74	40.99	41.37	42.57	44.03	45.31	46.12
29	45.50	44.83	44.13	43.03	42.01	40.79	41.00	---	42.60	44.06	45.35	46.15
30	45.49	44.86	44.13	42.98	---	40.82	40.96	---	42.63	44.10	45.37	46.16
31	45.61	---	44.13	43.03	---	40.81	---	---	---	44.19	45.40	---
MEAN	45.21	45.30	44.45	43.52	42.35	41.28	40.80	---	---	43.45	44.77	45.72
MAX	45.61	45.59	44.99	44.20	43.00	42.00	41.00	---	---	44.19	45.40	46.16
MIN	44.74	44.83	44.11	42.98	42.00	40.70	40.65	---	---	42.68	44.23	45.35

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46.19	46.73	46.29	45.86	45.99	45.93	45.58	45.41	45.26	45.80	46.93	47.59
2	46.20	46.76	46.29	45.89	46.01	45.96	45.59	45.39	45.21	45.86	46.95	47.60
3	46.22	46.75	46.29	45.89	45.99	45.93	45.61	45.30	45.21	45.91	46.97	47.63
4	46.24	46.75	46.31	45.87	45.93	45.90	45.63	45.26	45.15	45.95	47.00	47.65
5	46.25	46.78	46.29	45.92	45.90	46.00	45.49	45.30	45.16	46.02	47.04	47.70
6	46.27	46.84	46.26	45.87	45.75	46.01	45.47	45.25	45.19	46.08	47.09	47.72
7	46.30	46.83	46.24	45.83	45.82	46.01	45.53	45.27	45.16	46.12	47.11	47.70
8	46.32	46.76	46.23	45.90	45.76	46.04	45.58	45.25	45.14	46.17	47.10	47.68
9	46.30	46.77	46.25	45.84	45.76	46.00	45.60	45.23	45.18	46.19	47.11	47.69
10	46.32	46.83	46.27	45.86	45.73	46.01	45.50	45.23	45.16	46.23	47.16	47.75
11	46.36	46.89	46.25	45.91	45.79	46.03	45.54	45.14	45.15	46.28	47.17	47.79
12	46.41	46.89	46.26	45.99	45.88	46.04	45.55	45.12	45.16	46.33	47.19	47.82
13	46.46	46.86	46.19	45.99	45.87	46.00	45.57	45.14	45.15	46.39	47.24	47.85
14	46.47	46.89	46.18	46.04	45.86	46.04	45.53	45.11	45.15	46.40	47.25	47.88
15	46.47	46.92	46.27	46.03	45.85	45.98	45.51	45.13	45.17	46.41	47.27	47.86
16	46.48	46.95	46.20	46.02	45.88	45.99	45.49	45.19	45.19	46.44	47.31	47.90
17	46.50	46.79	46.30	46.04	45.83	45.96	45.56	45.16	45.20	46.49	47.33	47.94
18	46.55	46.71	46.21	45.99	45.88	45.92	45.50	45.20	45.20	46.53	47.37	48.01
19	46.55	46.67	46.20	45.97	45.84	45.94	45.50	45.21	45.18	46.52	47.36	48.06
20	46.54	46.61	46.15	45.94	45.89	45.89	45.48	45.24	45.21	46.58	47.36	48.11
21	46.60	46.60	46.08	45.96	45.89	45.87	45.54	45.19	45.22	46.63	47.38	48.15
22	46.59	46.60	46.09	45.94	45.87	45.85	45.60	45.16	45.22	46.66	47.38	48.16
23	46.57	46.58	46.01	45.89	45.87	45.83	45.59	45.23	45.20	46.69	47.43	48.19
24	46.58	46.58	46.02	45.92	45.86	45.79	45.54	45.28	45.22	46.72	47.46	48.21
25	46.58	---	45.96	45.86	46.00	45.83	45.46	45.27	45.19	46.74	47.45	48.27
26	46.60	---	45.92	45.93	46.03	45.86	45.49	45.24	45.16	46.79	47.48	48.29
27	46.58	---	45.92	45.95	46.02	45.76	45.43	45.26	45.19	46.83	47.51	48.30
28	46.56	---	45.88	45.90	45.98	45.77	45.44	45.33	45.38	46.86	47.50	48.30
29	46.62	46.36	45.84	46.03	---	45.72	45.44	45.40	45.60	46.86	47.49	48.27
30	46.69	46.34	45.82	46.04	---	45.68	45.42	45.41	45.67	46.88	47.52	48.20
31	46.74	---	45.84	46.02	---	45.61	---	45.31	---	46.92	47.57	---
MEAN	46.46	---	46.14	45.94	45.88	45.91	45.53	45.25	45.22	46.43	47.27	47.94
MAX	46.74	---	46.31	46.04	46.03	46.04	45.63	45.41	45.67	46.92	47.57	48.30
MIN	46.19	---	45.82	45.83	45.73	45.61	45.42	45.11	45.14	45.80	46.93	47.59

## GROUND WATER LEVELS

MULTNOMAH COUNTY--Continued

Well identifier continued: 452912122312801Local number, 01.00S/02.00E-14ABC01

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48.26	48.47	---	43.61	41.72	40.85	40.32	40.44	41.28	43.53	45.75	47.38
2	48.35	48.42	---	43.64	41.60	40.90	40.30	40.41	41.38	43.58	45.85	47.36
3	48.35	48.37	46.45	43.72	41.73	40.87	40.31	40.55	41.40	43.69	45.81	47.40
4	48.39	48.32	46.27	43.58	41.62	40.82	40.29	40.53	41.46	43.69	45.93	47.44
5	48.44	48.30	46.08	43.52	41.53	40.80	40.39	40.52	41.53	43.83	45.91	47.51
6	48.45	48.19	46.08	43.41	41.43	40.63	40.44	40.59	41.72	43.83	46.01	47.50
7	48.44	48.19	45.94	43.27	41.33	40.64	40.48	40.66	41.79	43.86	46.11	47.55
8	48.50	48.17	45.65	43.20	41.50	40.76	40.42	40.63	41.84	43.93	46.18	47.63
9	48.57	48.13	45.70	43.11	41.31	40.56	40.44	40.66	41.89	43.92	46.20	47.64
10	48.50	48.08	45.47	43.07	41.20	40.63	40.40	40.71	41.92	44.13	46.23	47.64
11	48.49	48.04	45.45	42.81	41.23	40.57	40.30	40.72	41.92	44.33	46.28	47.66
12	48.45	48.00	45.40	42.82	40.97	40.50	40.35	40.69	41.98	44.38	46.35	47.71
13	48.45	47.98	45.08	42.80	41.00	40.47	40.24	40.81	42.05	44.46	46.41	47.77
14	48.38	47.93	45.12	42.77	41.01	40.47	40.24	40.82	42.18	44.58	46.46	47.84
15	48.44	47.87	44.88	42.79	40.90	40.25	40.19	40.82	42.21	44.59	46.48	47.88
16	48.52	47.88	44.68	42.65	40.87	40.20	40.15	40.82	42.27	44.65	46.59	47.90
17	48.62	47.83	44.74	42.65	40.86	40.31	40.30	40.86	42.23	44.80	46.62	47.78
18	48.63	47.75	44.47	42.56	40.85	40.28	40.44	40.81	42.59	44.86	46.66	47.73
19	48.63	47.68	44.40	42.50	40.93	40.22	40.39	40.82	42.72	44.94	46.73	47.71
20	48.62	47.61	44.37	42.36	41.05	40.12	40.27	40.91	42.57	44.90	46.81	47.72
21	48.62	47.49	44.36	42.34	40.97	40.06	40.31	41.04	42.89	44.99	46.87	47.81
22	48.54	47.50	44.13	42.41	40.86	39.93	40.37	41.11	43.10	45.08	46.88	47.78
23	48.54	47.45	44.22	42.44	40.85	39.97	40.46	41.11	43.19	45.20	46.92	47.86
24	48.47	47.26	44.06	42.27	41.02	40.14	40.37	41.06	43.26	45.32	47.00	47.90
25	48.46	47.39	44.05	42.05	40.98	40.13	40.33	41.09	43.34	45.40	47.10	47.96
26	48.55	47.39	43.92	42.00	40.88	40.13	40.26	41.11	43.40	45.44	47.13	48.01
27	48.60	47.36	43.78	41.99	40.83	40.23	40.27	41.13	43.49	45.50	47.13	47.99
28	48.65	47.32	43.81	41.92	40.84	40.26	40.39	41.18	43.37	45.54	47.15	47.96
29	48.66	---	43.81	41.90	---	40.30	40.30	41.24	43.39	45.57	47.21	48.02
30	48.46	---	43.75	41.80	---	40.31	40.33	41.29	43.50	45.66	47.28	48.03
31	48.56	---	43.78	41.71	---	40.30	---	41.29	---	45.73	47.33	---
MEAN	48.50	---	---	42.70	41.14	40.41	40.34	40.85	42.40	44.64	46.56	47.74
MAX	48.66	---	---	43.72	41.73	40.90	40.48	41.29	43.50	45.73	47.33	48.03
MIN	48.26	---	---	41.71	40.83	39.93	40.15	40.41	41.28	43.53	45.75	47.36



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