

14211814 FAIRVIEW CREEK AT GLISAN STREET, NEAR GRESHAM, OR

Willamette Basin
Lower Willamette Subbasin

LOCATION.--Lat 45°31'40", long 122°26'51" referenced to North American Datum of 1927, in sec.58, T.1 N., R.3 E., Multnomah County, OR, Hydrologic Unit 17090012, on right bank, at upstream side of culvert on Glisan St., 0.4 mi east of the intersection of 202nd Ave. and Glisan St., 1.7 mi northwest of Gresham City Hall and at mile 3.05.

DRAINAGE AREA.--4.94 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 205 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records poor. No regulation or diversion upstream from station. High flows affected to an unknown degree by two small ponds just upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--15 years (water years 1993-2007), 5.78 ft³/s, 15.89 in/yr, 4,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 119 ft³/s Jan. 31, 2003, gage height, 6.56 ft; minimum discharge, 0.24 ft³/s Sept. 15, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft³/s and (or) maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|
| Nov 7 | 0430 | *59 | *5.77 |
| Nov 11 | 0200 | 34 | 5.21 |
| Nov 24 | 0200 | 31 | 5.12 |
| Dec 14 | 1800 | 44 | 5.45 |
| Dec 25 | 0830 | 42 | 5.42 |
| Jan 3 | 1200 | 44 | 5.46 |
| Mar 25 | 0930 | 40 | 5.37 |

Minimum discharge, 1.2 ft³/s, Sept. 17, 24, 25, gage height, 3.88 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1 | 1.9 | 3.7 | 8.4 | 9.9 | 5.6 | 8.1 | 13 | 2.8 | 5.2 | 3.7 | 4.7 | 2.7 |
| 2 | 2.1 | 4.9 | 6.2 | 13 | 5.8 | 11 | 6.4 | 7.8 | 5.9 | 3.3 | 4.9 | 2.3 |
| 3 | 2.3 | 17 | 6.1 | 38 | 6.1 | 24 | 5.6 | 11 | 3.7 | 4.5 | 3.4 | 1.8 |
| 4 | 2.1 | 12 | 6.4 | 23 | 6.8 | 14 | 6.6 | 11 | 2.3 | 3.9 | 2.8 | 2.6 |
| 5 | 2.7 | 22 | 5.4 | 15 | 6.2 | 10 | 7.5 | 9.4 | 6.0 | 2.5 | 2.3 | 4.2 |
| 6 | 2.1 | 32 | 6.0 | 21 | 5.5 | 9.0 | 6.5 | 5.4 | 12 | 3.9 | 1.9 | 4.6 |
| 7 | 2.3 | 52 | 5.7 | 17 | 4.8 | 8.6 | 6.7 | 3.1 | 6.7 | 5.4 | 3.0 | 4.2 |
| 8 | 2.0 | 26 | 4.2 | 15 | 4.6 | 9.7 | 6.6 | 4.2 | 5.3 | 3.5 | 4.4 | 3.7 |
| 9 | 2.1 | 19 | 5.3 | 11 | 7.4 | 6.4 | 8.8 | 6.1 | 4.9 | 2.3 | 4.5 | 2.6 |
| 10 | 2.0 | 16 | 6.8 | 12 | 7.0 | 7.8 | 11 | 7.1 | 6.3 | 3.7 | 4.0 | 1.7 |
| 11 | 2.1 | 26 | 11 | 10 | 7.8 | 8.6 | 8.3 | 7.1 | 3.6 | 5.3 | 2.7 | 2.1 |
| 12 | 2.0 | 15 | 20 | 8.1 | 5.5 | 11 | 7.1 | 7.0 | 4.6 | 5.5 | 1.9 | 2.2 |
| 13 | 1.8 | 20 | 24 | 7.1 | 3.9 | 10 | 7.4 | 5.2 | 5.5 | 5.4 | 1.6 | 2.4 |
| 14 | 2.2 | 15 | 31 | 8.2 | 4.2 | 7.4 | 7.7 | 3.3 | 4.5 | 3.3 | 2.4 | 2.8 |
| 15 | 3.0 | 9.0 | 30 | 8.1 | 11 | 7.7 | 8.7 | 5.1 | 4.1 | 2.6 | 3.0 | 2.1 |
| 16 | 11 | 13 | 14 | 7.8 | 16 | 7.6 | 7.5 | 6.2 | 4.6 | 2.4 | 2.3 | 1.5 |
| 17 | 7.1 | 7.9 | 8.7 | 7.9 | 9.8 | 7.6 | 8.1 | 6.6 | 3.5 | 4.0 | 2.5 | 1.2 |
| 18 | 3.1 | 6.0 | 9.0 | 8.5 | 8.2 | 7.3 | 9.9 | 6.2 | 2.5 | 3.6 | 3.2 | 1.8 |
| 19 | 4.4 | 8.4 | 8.1 | 9.3 | 7.5 | 7.5 | 6.7 | 3.7 | 4.0 | 4.6 | 3.9 | 2.7 |
| 20 | 5.6 | 14 | 7.0 | 11 | 14 | 12 | 4.2 | 2.6 | 5.8 | 3.2 | 3.8 | 2.8 |
| 21 | 3.2 | 9.5 | 13 | 9.1 | 12 | 8.2 | 4.3 | 3.5 | 5.5 | 2.7 | 6.1 | 2.0 |
| 22 | 2.2 | 19 | 12 | 8.3 | 11 | 5.8 | 10 | 6.1 | 3.8 | 2.5 | 4.3 | 1.6 |
| 23 | 2.3 | 22 | 18 | 6.7 | 9.9 | 5.6 | 5.7 | 6.7 | 3.3 | 2.2 | 3.6 | 1.5 |
| 24 | 2.1 | 25 | 16 | 4.6 | 18 | 10 | 4.0 | 7.3 | 2.9 | 3.7 | 3.8 | 1.3 |
| 25 | 2.5 | 16 | 35 | 4.8 | 22 | 34 | 6.2 | 7.0 | 2.7 | 5.4 | 3.2 | 1.5 |
| 26 | 2.8 | 18 | 26 | 6.5 | 15 | 17 | 6.5 | 5.8 | 4.2 | 5.3 | 2.3 | 1.9 |
| 27 | 2.7 | 15 | 21 | 6.6 | 10 | 10 | 7.4 | 3.2 | 4.8 | 4.5 | 1.8 | 2.5 |
| 28 | 3.3 | 9.2 | 14 | 6.2 | 10 | 9.8 | 7.5 | 2.3 | 5.2 | 2.8 | 2.1 | 13 |
| 29 | 2.3 | 7.0 | 11 | 6.3 | --- | 5.9 | 4.5 | 3.2 | 4.4 | 2.1 | 3.1 | 9.1 |
| 30 | 1.8 | 8.0 | 11 | 5.9 | --- | 5.3 | 2.8 | 3.3 | 5.7 | 1.9 | 3.5 | 7.9 |
| 31 | 2.4 | --- | 10 | 5.1 | --- | 11 | --- | 3.1 | --- | 3.1 | 2.9 | --- |
| Total | 91.5 | 487.6 | 410.3 | 331.0 | 255.6 | 317.9 | 213.2 | 172.4 | 143.5 | 112.8 | 99.9 | 94.3 |
| Mean | 2.95 | 16.3 | 13.2 | 10.7 | 9.13 | 10.3 | 7.11 | 5.56 | 4.78 | 3.64 | 3.22 | 3.14 |
| Max | 11 | 52 | 35 | 38 | 22 | 34 | 13 | 11 | 12 | 5.5 | 6.1 | 13 |
| Min | 1.8 | 3.7 | 4.2 | 4.6 | 3.9 | 5.3 | 2.8 | 2.3 | 2.3 | 1.9 | 1.6 | 1.2 |
| Ac-ft | 181 | 967 | 814 | 657 | 507 | 631 | 423 | 342 | 285 | 224 | 198 | 187 |
| Cfsm | 0.60 | 3.29 | 2.68 | 2.16 | 1.85 | 2.08 | 1.44 | 1.13 | 0.97 | 0.74 | 0.65 | 0.64 |
| In. | 0.69 | 3.67 | 3.09 | 2.49 | 1.92 | 2.39 | 1.61 | 1.30 | 1.08 | 0.85 | 0.75 | 0.71 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2007, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 3.32 | 6.41 | 9.75 | 10.8 | 9.33 | 8.57 | 6.25 | 5.09 | 3.82 | 2.31 | 1.92 | 1.99 |
| Max | 9.55 | 16.3 | 20.2 | 22.8 | 19.2 | 17.7 | 8.81 | 8.55 | 6.38 | 4.76 | 6.29 | 5.35 |
| (WY) | (2005) | (2007) | (1997) | (2006) | (1999) | (1999) | (1999) | (1996) | (2005) | (1997) | (2004) | (2004) |
| Min | 0.98 | 1.15 | 4.39 | 2.13 | 2.54 | 4.74 | 2.76 | 2.28 | 1.33 | 0.47 | 0.53 | 0.44 |
| (WY) | (2003) | (2003) | (1994) | (2001) | (1993) | (2004) | (2004) | (2004) | (2001) | (2001) | (1994) | (2001) |

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SUMMARY STATISTICS

| | Calendar Year 2006 | | Water Year 2007 | | Water Years 1993 - 2007 | |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|--------------|
| Annual total | 3,073.4 | | 2,730.0 | | | |
| Annual mean | 8.42 | | 7.48 | | 5.78 | |
| Highest annual mean | | | | | 9.11 | 1997 |
| Lowest annual mean | | | | | 2.55 | 2001 |
| Highest daily mean | 52 | Nov 7 | 52 | Nov 7 | 71 | Nov 19, 1996 |
| Lowest daily mean | 1.7 | Aug 28 | 1.2 | Sep 17 | 0.26 | Sep 12, 2001 |
| Annual seven-day minimum | 2.0 | Oct 8 | 1.8 | Sep 21 | 0.27 | Sep 8, 2001 |
| Annual runoff (ac-ft) | 6,100 | | 5,410 | | 4,190 | |
| Annual runoff (cfsm) | 1.70 | | 1.51 | | 1.17 | |
| Annual runoff (inches) | 23.14 | | 20.56 | | 15.89 | |
| 10 percent exceeds | 20 | | 15 | | 13 | |
| 50 percent exceeds | 5.5 | | 5.8 | | 3.7 | |
| 90 percent exceeds | 2.2 | | 2.3 | | 0.92 | |

