

FRENCH CREEK BASIN

LAKES AND RESERVOIRS IN FRENCH CREEK BASIN

03021518 UNION CITY RESERVOIR.--Lat 41°55'13", long 79°53'59", Erie County, Hydrologic Unit 05010004, in tower at left center of Union City Dam on French Creek, 1.4 mi upstream from South Branch French Creek, and 3.2 mi northwest of Union City. DRAINAGE AREA, 220 mi². PERIOD OF RECORD, July 1970 to current year. GAGE, water-stage recorder. Datum of gage is sea level (U.S. Army Corps of Engineers bench mark). Reservoir is formed by earthfill dam with sidehill, concrete-lined spillway completed September 1971. Dam became operational in July 1970. Usable capacity 47,650 acre-ft between elevation 1,210.00 ft (invert of inlet of conduit) and 1,278.00 ft (crest of spillway). No dead storage. Figures given herein represent usable contents. Reservoir is used for flood control only. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD (1970-2004).--Maximum contents, 34,840 acre-ft, Feb. 21, 1981, elevation, 1,271.80 ft; minimum, 0.0 acre-ft, Aug. 31, 1995, elevation, 1,211.08 ft.

EXTREMES FOR CURRENT YEAR.--Records not furnished to determine extremes for current year.

03022550 WOODCOCK CREEK LAKE.--Lat 41°41'50", long 80°06'06", Crawford County, Hydrologic Unit 05010004, in tower on right center and 200 ft upstream from center line of Woodcock Creek Dam on Woodcock Creek, 2.8 mi southeast of Saegerstown and 3.5 mi upstream from mouth. DRAINAGE AREA, 45.6 mi². PERIOD OF RECORD, January 1974 to current year. GAGE, water-stage recorder. Datum of gage is sea level (U.S. Army Corps of Engineers benchmark). Lake is formed by a rolled earth embankment with an impervious core. Storage began in January 1974. Total storage 20,000 acre-ft between elevation 1,138 ft inlet invert and 1,209 ft crest of spillway. Figures given herein represent usable contents. Lake is used for flood control and recreation. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD (1974-2004).--Maximum contents, 12,690 acre-ft, June 13, 1986, elevation, 1,198.18 ft; minimum (after first filling) 676 acre-ft, Nov. 1, 1984, elevation, 1,159.82 ft.

EXTREMES FOR CURRENT YEAR.--Records not furnished to determine extremes for current year.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS AT 2400 HRS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| Date | Elevation (feet) | Contents (acre- feet) | Change in contents (equivalent in ft ³ /s) | Elevation (feet) | Contents (acre- feet) | Change in contents (equivalent in ft ³ /s) |
|--------------------------------------|---------------------|-----------------------------|--|---------------------|-----------------------------|--|
| <u>03021518 Union City Reservoir</u> | | | <u>03022550 Woodcock Creek Lake</u> | | | |
| Sept. 30 | 1,216.33 | 52 | --- | 1,181.24 | 5,020 | --- |
| Oct. 31 | 1,224.84 | 601 | +8.9 | 1,177.14 | 3,750 | -21 |
| Nov. 30 | 1,232.06 | 1,720 | +19 | 1,172.42 | 2,590 | -19 |
| Dec. 31 | 1,239.08 | 3,640 | +31 | 1,167.92 | 1,730 | -14 |
| CAL YR 2004 | -- | -- | -8.1 | -- | -- | -0.23 |
| Jan. 31 | 1,221.78 | 324 | -54 | 1,166.93 | 1,570 | -2.6 |
| Feb. 28 | 1,222.02 | 342 | +0.32 | 1,165.89 | 1,410 | -2.9 |
| Mar. 31 | 1,250.99 | 8,980 | +140 | 1,179.69 | 4,510 | +50 |
| Apr. 30 | 1,250.90 | 8,920 | -1.0 | 1,182.73 | 5,530 | +17 |
| May 31 | 1,216.15 | 48 | -144 | 1,181.35 | 5,050 | -7.8 |
| June 30 | 1,215.15 | 30 | -0.3 | 1,180.96 | 4,920 | -2.2 |
| July 31 | 1,216.45 | 55 | +0.41 | 1,180.40 | 4,740 | -3.1 |
| Aug. 31 | 1,221.59 | 309 | +4.1 | 1,178.84 | 4,250 | -8.0 |
| Sept. 30 | 1,227.01 | 882 | +9.6 | 1,179.61 | 4,480 | +3.9 |
| WTR YR 2005 | -- | -- | +1.2 | -- | -- | -0.75 |