

CHRISTINA RIVER BASIN

LAKES AND RESERVOIRS IN CHRISTINA RIVER BASIN

01480399 CHAMBERS LAKE NEAR WAGONTOWN.--Lat 40°01'40", long 75°51'03", Chester County, Hydrologic Unit 02040205, at Hibernia Dam on Birch Run, 0.6 mi upstream from gaging station on Birch Run (station 01480400), 0.9 mi upstream from mouth, and 1.4 mi northwest of Wagontown. DRAINAGE AREA, 4.5 mi². PERIOD OF RECORD, May 1997 to current year. GAGE, non-recording gage. Manual measurement from top of concrete riser at upstream flank of Hibernia Dam. Datum of gage is sea level (levels by Chester County Water Resources Authority, Chester County Parks and Recreation Department).

REMARKS.--Reservoir formed by earthfill dam with principle spillway at elevation 587.5 ft, capacity 2,000 acre-ft. Dam crest at elevation 596.5 ft. Normal elevation 580 ft, capacity 1,226 acre feet. Reservoir is used for water supply, flood control, and recreation. Figures given herein represent total contents.

COOPERATION.--Records provided by Chester County Water Resources Authority, in cooperation with City of Coatesville Authority and Chester County Parks and Recreation Department.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,440 acre-ft, March 22, 2000, elevation, 582.76 ft; minimum contents, 605 acre-ft, Oct. 10, 2002, elevation, 571.23 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,240 acre-ft, Jan 1, elevation, 580.70 ft; minimum contents, 605 acre-ft, Oct. 10, elevation, 571.23 ft.

01480684 MARSH CREEK LAKE NEAR DOWNINGTOWN.--Lat 40°03'24", long 75°43'06", Chester County, Hydrologic Unit 02040205, on right bank at dam on Marsh Creek, 0.3 mi upstream from mouth, and 3.2 mi north of Downingtown. DRAINAGE AREA, 20.1 mi². PERIOD OF RECORD, November 1973 to current year. GAGE, Water-stage recorder. Datum of gage is sea level (levels by Pennsylvania Department of Environmental Protection).

REMARKS.--Reservoir formed by earthfill dam with concrete spillway at elevation 359.5 ft. Storage began November 1973. Total capacity, 22,190 acre-ft, elevation 373 ft. Reservoir is used for water supply, flood control, and recreation. Figures given herein represent contents above lowest gate sill at elevation 289.5 ft.

COOPERATION.--Records provided by Pennsylvania Department of Environmental Protection.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 16,500 acre-ft, Sept. 18, 1999, elevation, 363.49 ft; minimum contents (after first filling), 10,410 acre-ft, Mar. 3, 1976, elevation, 351.75 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 16,040 acre-ft, June 22, elevation, 362.87 ft; minimum contents, 13,260 acre-ft, Oct. 10, elevation, 357.71 ft.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS AT 2400 HRS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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>01480399 Chambers Lake</u>				<u>01480684 Marsh Creek Lake</u>		
Sept. 30	572.68	670	---	358.04	13,430	---
Oct. 31	574.00	750	+1.3	359.71	14,300	+14.2
Nov. 30	577.60	1,010	+4.4	359.86	14,380	+1.3
Dec. 31	580.30	1,200	+3.1	359.25	14,050	-5.4
CAL YR 2002	--	--	+0.5	--	--	+1.5
Jan. 31	580.20	1,190	-0.2	358.10	13,460	-9.6
Feb. 28	580.30	1,200	+0.2	359.96	14,440	+17.6
Mar. 31	580.30	1,200	0	360.45	14,710	+4.4
Apr. 30	580.19	1,190	-0.2	360.40	14,680	-0.5
May 31	580.21	1,200	+0.2	360.85	14,930	+4.1
June 30	580.22	1,200	0	360.75	14,870	-1.0
July 31	580.08	1,180	-0.3	360.45	14,710	-2.6
Aug. 31	580.00	1,180	0	360.08	14,500	-3.4
Sept. 30	580.20	1,190	+0.2	360.35	14,650	+2.5
WTR YR 2003	--	--	+0.7	--	--	+1.7