

MUSKINGUM RIVER LAKES, OHIO
BEACH CITY LAKE
Condition of Improvement, 30 Sep 1988

LOCATION OF DAM: In Tuscarawas County, Ohio, on Sugar Creek of Tuscarawas River, a tributary of the Muskingum River; 179.8 miles above the mouth of the Muskingum.

AUTHORITY: See sheet F/C 2.

PURPOSES SERVED: Flood control, recreation, fish and wildlife enhancement.

DAM: Type - rolled earth fill with impervious core, maximum height 64 feet, top length 5,600', top width 35', base width 370'.

SPILLWAY: Uncontrolled saddle spillway at right (south) abutment, crest elevation 976.5, length of crest 150', design discharge 28,000 c.f.s., with surcharge of 14.67 and freeboard of 3.9'.

OUTLET WORKS: Intake structure with six 7' x 15' gated sluices discharging through twin 18' x 13'-6" semi-circular concrete conduits through right abutment into a stilling basin. A control weir, with two stop log gates, maintains minimum pool.

OTHER STRUCTURES: Three rolled earthfill levees to protect Brewster as follows:

Levee No. 1: One-half mile northwest of Brewster: height 25', length 3,550', top width 8', base width 103'.

Levee No. 2: Just southeast of Brewster: height 20', length 6,250', top width 14', base width 110'.

Levee No. 3: Just northeast of Brewster: height 6', length 700', top width 8', base width 40'.

Industrial Levee: Small levee protects Industrial Silica Co., at Dundee.

DRAINAGE AREA ABOVE DAM: 300 square miles.

MAXIMUM NATURAL FLOW OF RECORD AT DAMSITE: 45,300 c.f.s., (5 Jul 1969).

RESERVOIR DESIGN FLOOD PEAK FLOW: 18,750 c.f.s.

Reservoir Data: Zero gage: 930 feet m.s.l.

SEE OTHER SIDE

<u>Pool</u>	<u>Surface Elevation</u> (Feet above sea level)	<u>Surface Area</u> (Acres)	<u>Backwater along Main Stream</u> (Miles)	<u>Capacity</u>			
				<u>Acre-Feet</u>		<u>Inches of Runoff</u>	
				<u>Net</u>	<u>Gross</u>	<u>Net</u>	<u>Gross</u>
Year-Round Storage:							
Minimum	948.0	420	5.3	1,700	1,700	0.1	0.1
Flood Control Storage*	976.5	6,150	14.4	70,000	71,700	4.4	4.5
Total	976.5	6,150	14.4	71,700	71,700	4.5	4.5

NET LAND OWNED: Fee 223.64 acres at damsite, 65.94 acres at Brewster. Easement 7,805.80 acres in reservoir, 11.40 acres at Brewster.

STATUS: The dam was completed during September 1936. Construction of a local protection project at Brewster, Ohio, consisting of 3 levee sections, a pump station and stream improvements is complete.

A gate closure was completed at the left abutment for B&O Railroad tracks in 1982.

COST: Construction \$3,514,100 which includes portions of cost of preparation of the Official Plan; \$13,900 for 711 funds and \$36,400 in A.P.W. funds.

* At maximum pool level.