



WATERWAYS
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Emsworth, Dashiels and Montgomery Locks and Dams

Emsworth, Dashiels, and Montgomery Locks and Dams are the first three navigation projects on the Ohio River downstream of Pittsburgh. Emsworth is located at Neville Island at Ohio River mile 6.2, and includes a dam in the back channel of the river. Dashiels is located at mile 13.3, and Montgomery is at mile 31.7. All three projects feature main lock chambers measuring 110' x 600' and auxiliary locks that are 56' x 360'. These are the only remaining navigation projects on the Ohio River that do not have a 110' x 1200' lock chamber. Emsworth was built in 1921, Dashiels in 1929, and Montgomery was completed in 1936.



Emsworth Lock and Dam. Ohio River

At these locks, the costs associated with major rehabilitation and major maintenance over a 50 year economic design life may exceed the cost of replacement with new larger facilities. Any closures of the main chambers for repairs force greater future reliance on the very small

auxiliary chambers. As part of the Ohio River Main Stem Study of navigation modernization, replacement plans involving two or three projects are being evaluated.

Emsworth, Dashields and Montgomery Locks 2003 Commodity Distribution <i>(Values in Millions of Dollars)</i>						
Commodity	Tonnage				%	Value
	Emsworth	Dashields	Montgomery	Total		
Coal	15,727,552	15,755,102	16,437,209	17,161,821	71%	\$678
Petroleum	645,860	764,386	925,906	982,136	4%	\$211
Aggregates	1,152,836	1,475,545	1,380,479	2,554,292	11%	\$80
Grain	42,452	42,452	43,887	43,887	0%	\$8
Chemicals	713,207	735,877	957,413	957,413	4%	\$356
Ores/Minerals	516,669	807,189	834,234	834,234	3%	\$121
Iron/Steel	703,810	747,820	1,113,827	1,113,827	5%	\$829
Other	298,581	304,513	442,466	442,466	2%	\$514
Total	19,800,967	20,632,884	22,135,421	24,090,076		\$2,797.00

** Total tonnage moving through any of the three locks.*
Source: U.S. Army Corps of Engineers Waterborne Commerce Statistics

According to the Corps of Engineers Waterborne Commerce Statistics for 2003, 24.1 million tons of commodities moved through any of all of the three locks. Coal made up 71% of the tonnage moved through these locks, with aggregates next at 11%. The value of the 24.1 million tons was over \$2.8 billion.

The state that shipped the most tonnage (10.2 million tons worth \$1.2 billion) through Emsworth, Dashields, and Montgomery Locks was Pennsylvania. Of this amount, coal comprised over 7.8 million tons. West Virginia was next, transporting over 8 million tons of goods.

Emsworth, Dashields and Montgomery Locks 2003 Barge Tonnage Shipped by States			
Shipments By	Tons	Value	Top Commodity
Pennsylvania	10,193,951	\$1,051,360,961	Coal
West Virginia	8,331,342	\$377,006,706	Coal
Ohio	2,043,585	\$111,990,072	Coal
Louisiana	1,909,371	\$802,849,925	Ores/minerals
Kentucky	676,863	\$66,468,339	Others

Source: U.S. Army Corps of Engineers Waterborne Commerce Statistics

Pennsylvania is also the largest receiving state for Emsworth, Dashields, and Montgomery barge traffic, with 16.0 million tons and a commodity value of more than \$1.8 billion. Ohio was second in receipts, with over 2.5 million tons. See map for a graphical representation of state tonnage movements through Emsworth, Dashields, and Montgomery Locks.

Emsworth, Dashields and Montgomery Locks 2003 Barge Tonnage Shipped to States			
Receipts By	Tons	Value	Top Commodity
Pennsylvania	15,939,637	\$1,804,455,787	Coal
Ohio	2,522,651	\$105,477,223	Coal
West Virginia	2,447,061	\$116,507,374	Coal
Kentucky	1,352,525	\$155,621,838	Coal
Indiana	460,875	\$54,844,978	Coal
<i>Source: U.S. Army Corps of Engineers Waterborne Commerce Statistics</i>			

Pennsylvania's 12th Congressional District was the leading shipper of commodities through Emsworth, Dashields, and Montgomery Locks. This district shipped 6.2 million tons of commodities, with the vast majority being coal with a combined value of \$266 million. West Virginia District 3 was next, with 4.4 million tons. See map for the top 10 Congressional Districts shipping tonnage through Emsworth, Dashields, and Montgomery Locks.

Emsworth, Dashields and Montgomery Locks 2003 Barge Tonnage Shipped by Congressional Districts				
Shipments By	District	Tons	Value	Top Commodity
Pennsylvania	12	6,287,239	\$266,045,639	Coal
West Virginia	3	4,401,070	\$175,847,027	Coal
Pennsylvania	4	2,522,962	\$216,249,558	Aggregates
West Virginia	2	2,209,691	\$93,019,216	Coal
Ohio	6	2,043,585	\$111,990,072	Coal
<i>Source: U.S. Army Corps of Engineers Waterborne Commerce Statistics</i>				

The leading Congressional District in receipts of Emsworth, Dashields, and Montgomery Myers Locks commodities was Pennsylvania District 14, which received almost 9 million tons. This tonnage was mainly coal, and aggregates and had a combined value of more than \$616 million. See map for the top 10 Congressional Districts receiving Emsworth, Dashields, and Montgomery Locks tonnage.

Emsworth, Dashields and Montgomery Locks 2003 Barge Tonnage Shipped to Congressional Districts				
Shipments By	District	Tons	Value	Top Commodity
Pennsylvania	14	8,915,539	\$616,944,972	Coal
Pennsylvania	4	4,329,024	\$768,071,473	Coal
West Virginia	1	2,391,012	\$112,601,252	Coal
Pennsylvania	12	1,766,676	\$261,545,424	Coal
Ohio	6	1,402,883	\$54,264,680	Coal
<i>Source: U.S. Army Corps of Engineers Waterborne Commerce Statistics</i>				