

# Allegheny River Service Reduction

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**District Engineer**

**Presenter:**  
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**US Army Corps of Engineers**  
**BUILDING STRONG®**



# Agenda

Background

Status/Condition

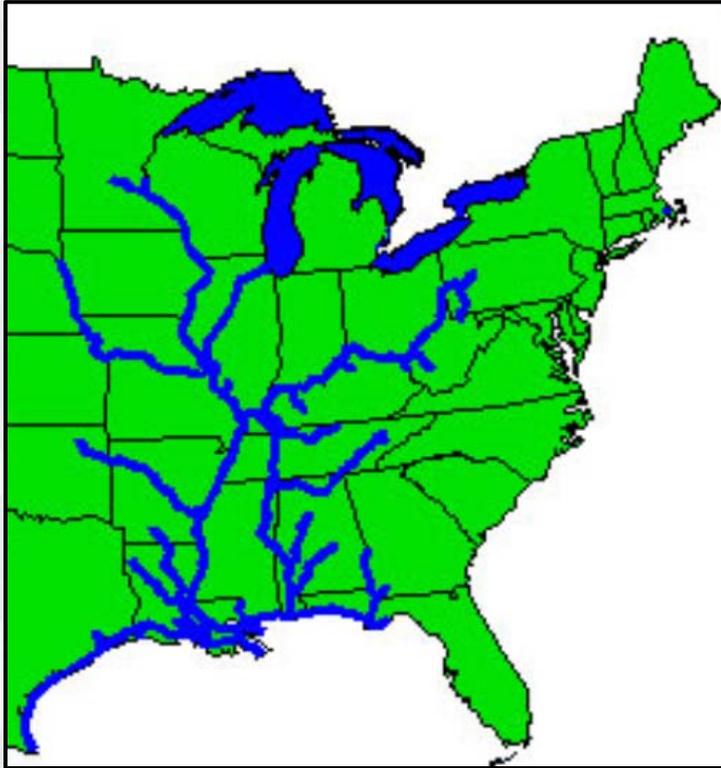
Budget

Service

Way forward



# Inland Waterways System



- 25,000 miles of navigable waters; 192 Corps Locks & Dams
- 630 million tons of cargo valued at over \$73 billion annually.
- Over 50% of the Corps' locks and dams are 50+ years old.

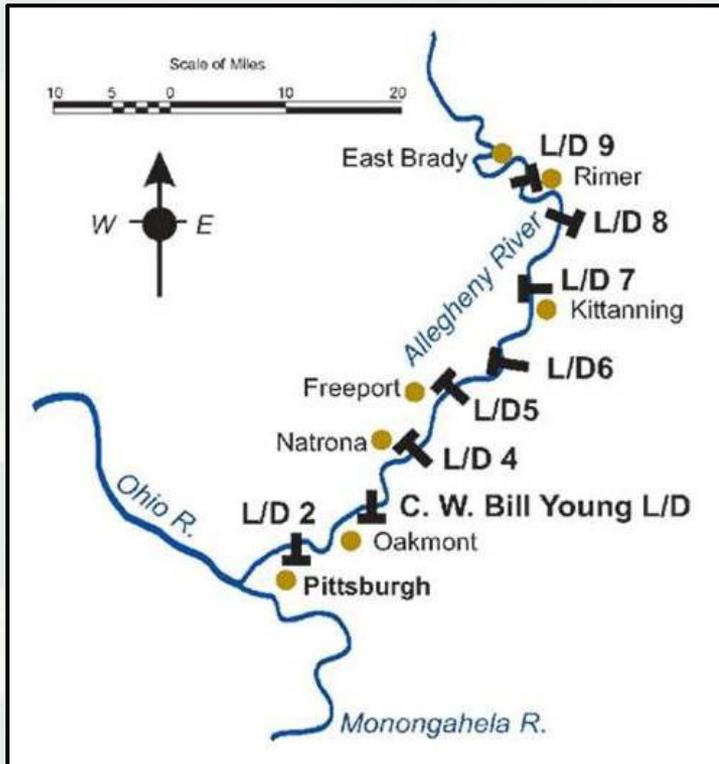


# Project Authorization

- Congressionally authorized for commercial navigation.
- Funding is based on commercial tonnage that passes through the locks.
- No economic consideration of recreational or other benefits.



# Allegheny River System

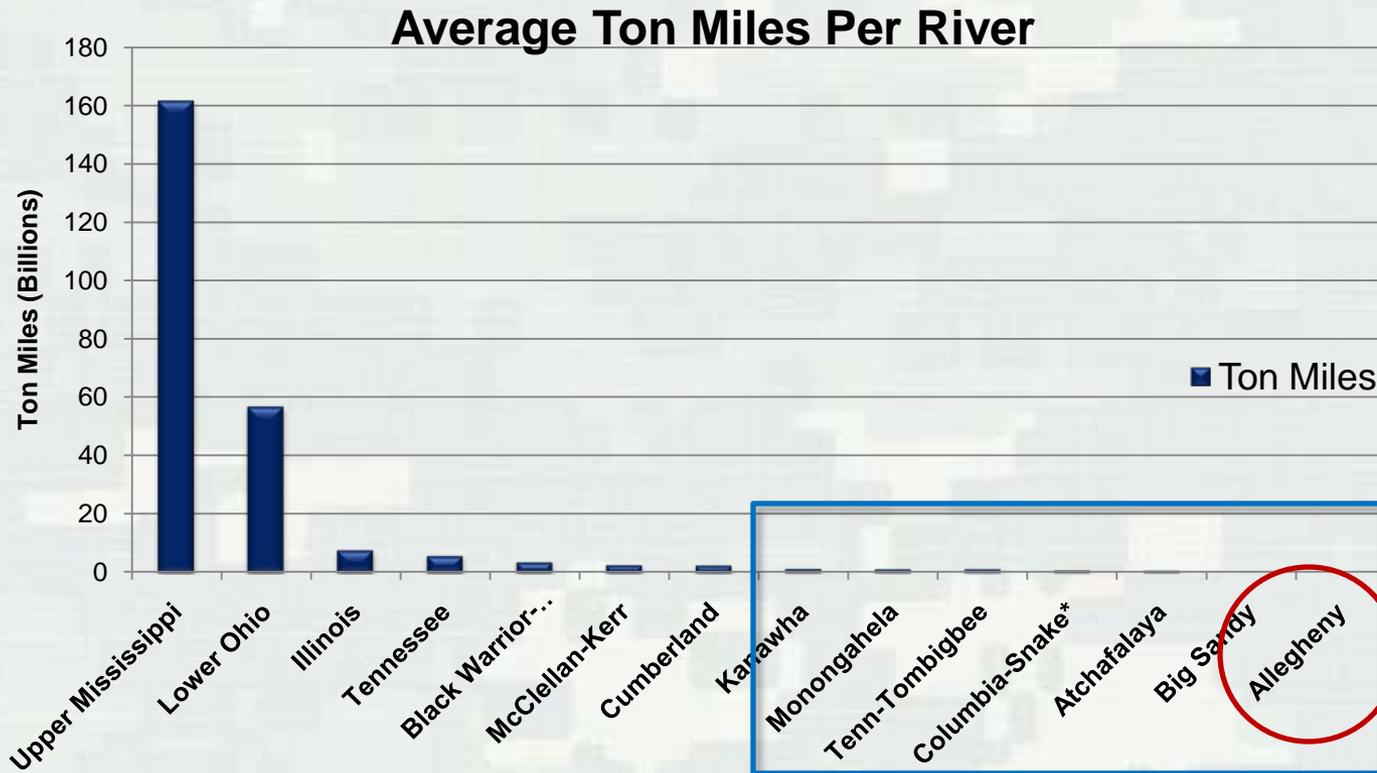


- 72 miles of navigable water; 8 locks and dams
- 2.5 million tons of cargo valued at \$238 million annually = less than half of one percent the cargo/value when compared to national system
- Allegheny River locks & dams are on average 78 years old



# Comparison of Allegheny River Ranking among other Nationwide Projects by River Ton Miles (Billions)

Definition of “ton-mile” = one ton moved one mile on a specific river system

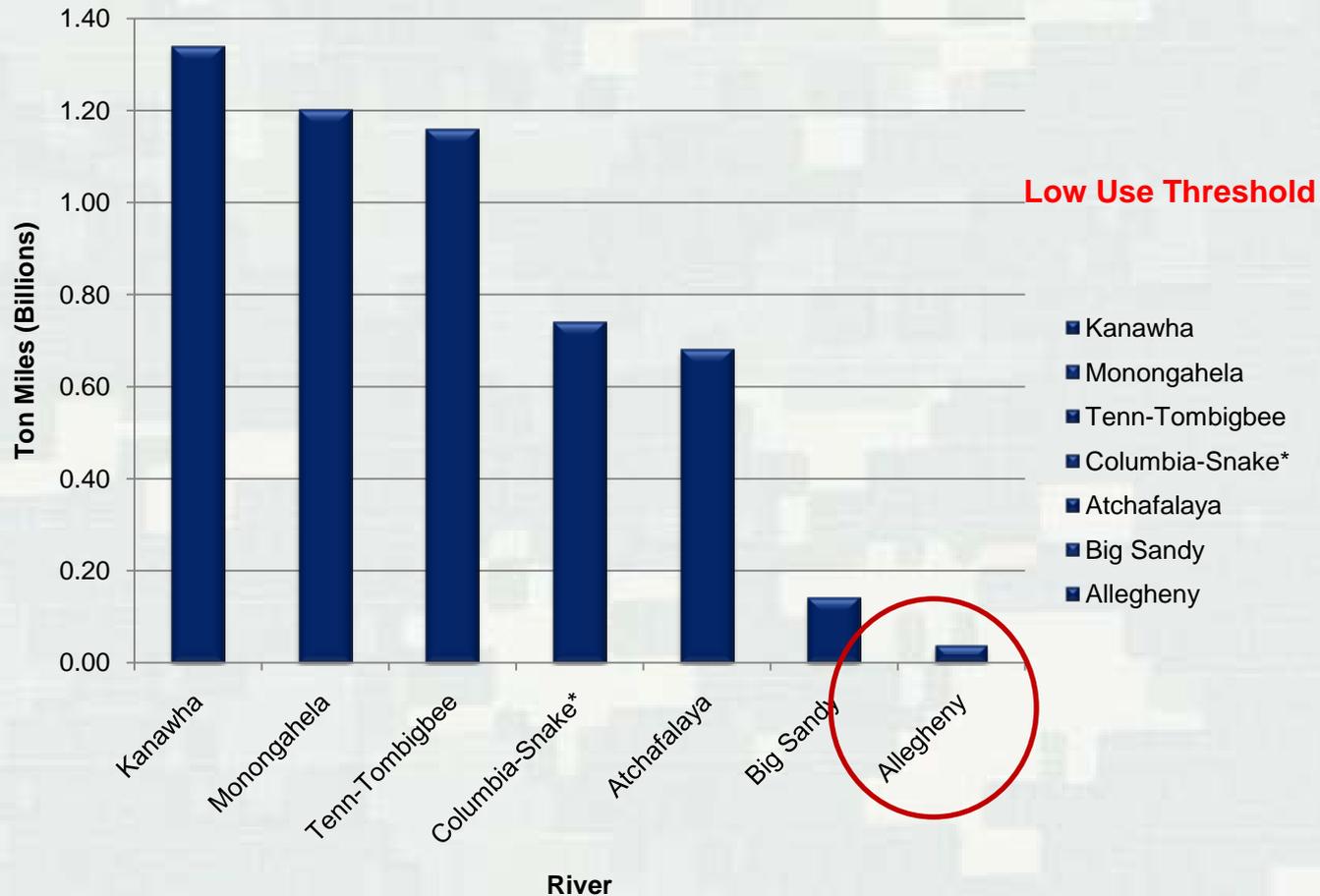


Low use is defined as below 1 Billion River Ton Miles – Allegheny River is only 0.037 billion river ton miles



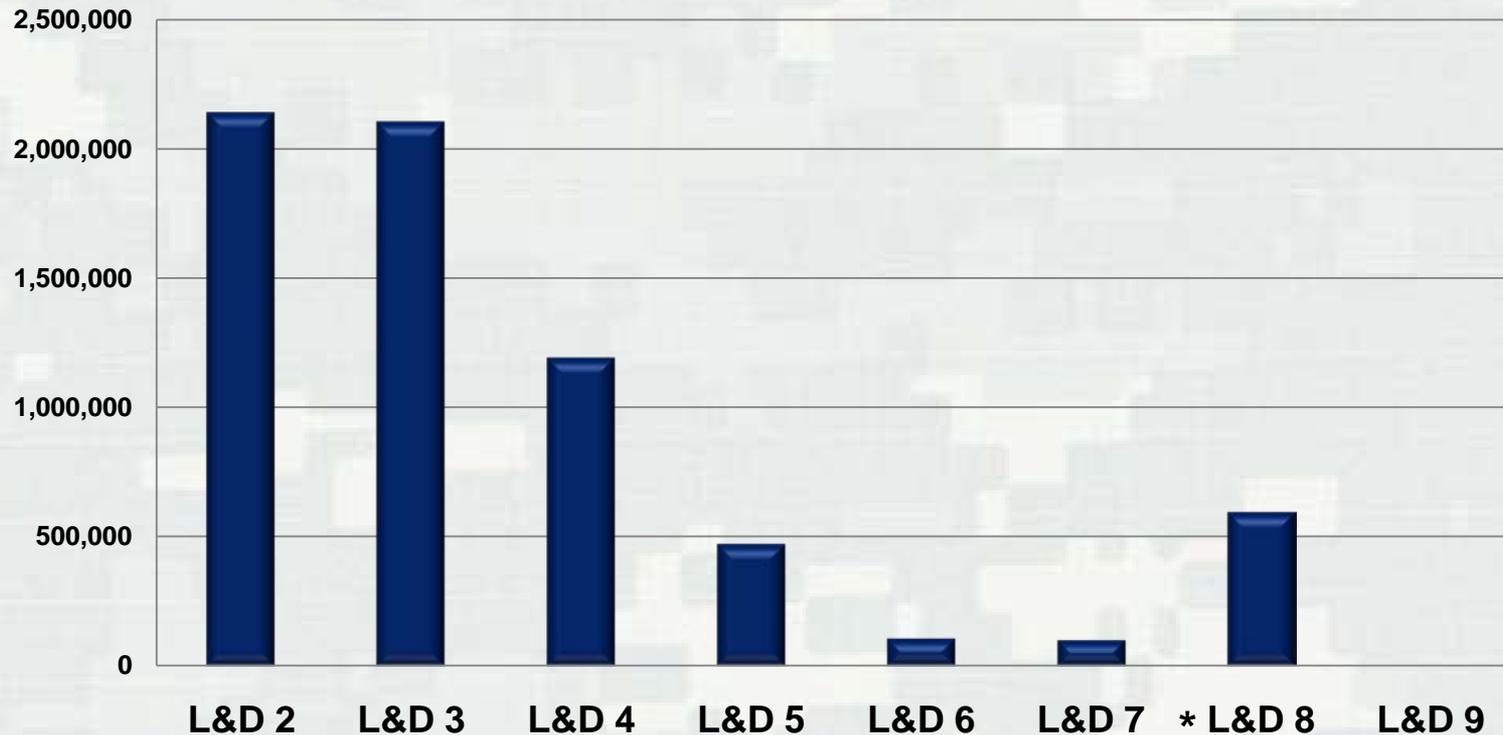
# Sample river systems near or below 1B ton miles

## Average Ton Miles Per River



# Average annual tonnage between 1999 to 2008 of Allegheny River L&Ds

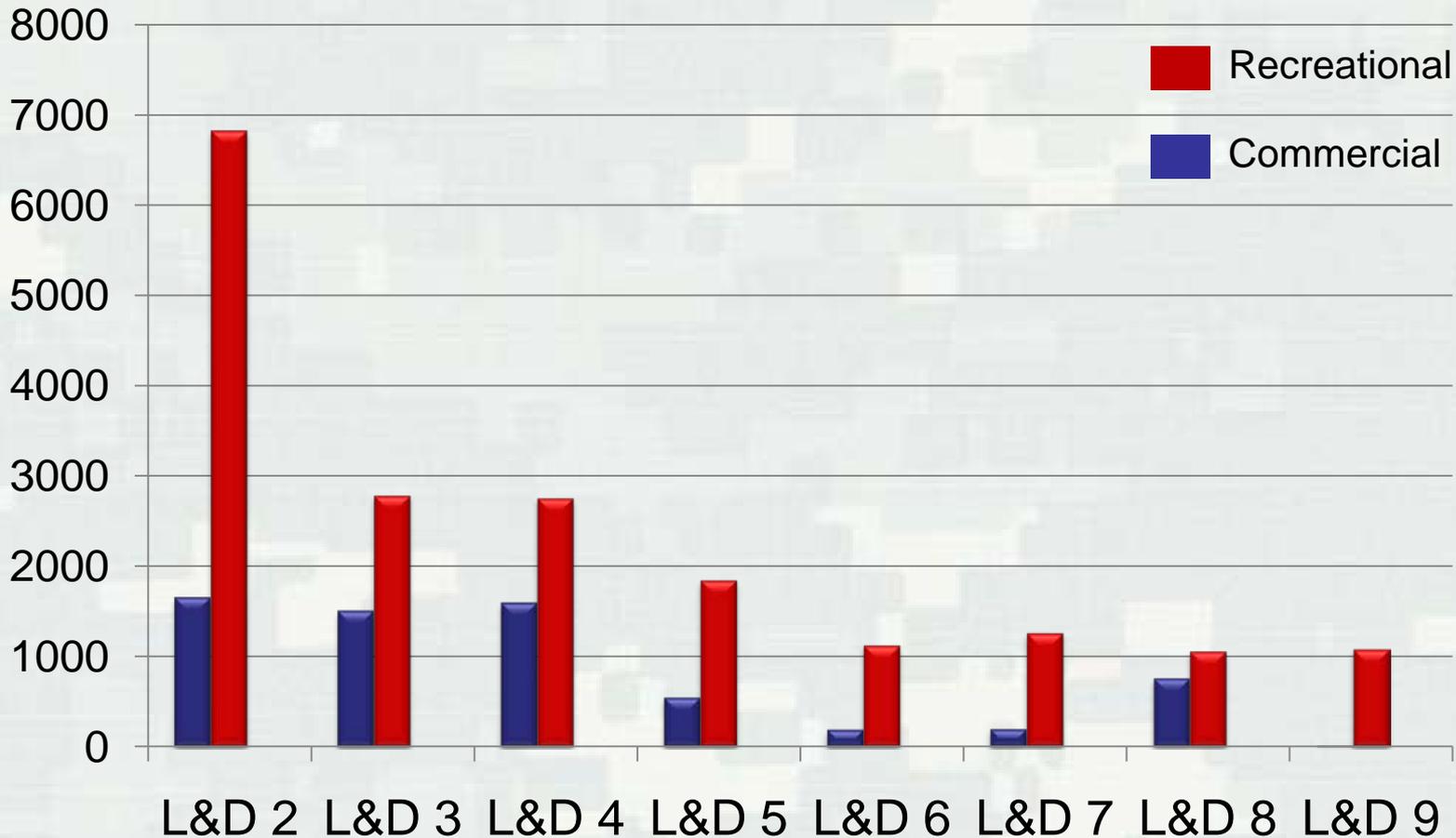
## Average Tonnage per Project



\* Note – Anticipated activity for Locks 8 & 9 is nearly zero for future years.



# Average Annual Number of Vessels through Allegheny River Locks and Dams Nos. 2 through 9 from year 2000-09



# Inland Navigation - Operational Condition Assessments

- Asset Management: Assesses “Operating Condition” of Inland Navigation
- Ratings: Five (5) Operating Condition Levels
- Lock 8 = D: Deficient
- Locks 2, 3, 4, 6, 7, 9 = C: Poor
- Lock 5 = B: Good



# Lock and Dam 8 Allegheny River

Deficient

F

Operation Building --  
HVAC  
Compressed Air System  
Interlock System

D

Lock Walls  
Shoreline Erosion  
Signage  
Hydraulic  
Turbine(s)



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# Lock and Dam 2 Allegheny River

POOR



F

- Lock Walls
- Wall Armor
- Interlock System

D

- Guide/Guard Walls
- Lock Lighting
- Pedestrian Bridge



# Recent Funding for Pittsburgh District Navigation Projects

	<b>FY10 Appropriation</b>	<b>FY11 PRESBUD</b>	<b>FY12 PRESBUD</b>
Allegheny River	\$8.59M	\$8.45M	\$4.0M
Monongahela River	\$15.93M	\$15.68M	\$17.0M
Ohio River	\$20.4M	\$28.02M	\$23.1M



# FY12 Allegheny River Budget Situation

- All major maintenance is eliminated.
- Reduces available operations funds by \$1.9 million = mostly labor costs.
- Eighteen people will be re-assigned to other facilities on the Monongahela and Ohio rivers.



# Service Option One

- Locks 2 - 4: 24/7 service for rec & commercial service.
- Locks 5 – 9: No recreational service available.
  - Service available by appointment for commercial vessels at the upper locks.
  - Consider accommodating requests to open locks for special events.



# Service Option Two

- Locks 2 – 4: Two shifts for recreational and commercial service.
- Locks 5 – 7: One daylight shift for recreational and commercial service available.
- Locks 8 & 9: Commercial service by appointment only.
  - No recreational service available.



# Other Options?

Objective: Meet our commercial commerce obligations while providing as much recreational service as possible.



# Way Forward

- March 14, 2011: Deadline for Comments.
- March 31, 2011: Decision by Corps.
- Current schedule through Sept. 30, 2011.
- Reduce service starting Oct. 1, 2011.



# Input and Information

- Comment Cards: Here or mail in
- Email: [CELRP-PA@usace.army.mil](mailto:CELRP-PA@usace.army.mil)
- Website: [www.lrp.usace.army.mil](http://www.lrp.usace.army.mil)
- Facebook/Twitter: PittsburghUSACE
- Email distribution list: Sign up
- Public Affairs Office: 412.395.7500



# Discussion



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# Examples of Low-Use River Actions

## Kentucky River Locks, Kentucky

- Built between 1836-1917; 14 locks, dams and canals over 225 mls.
- Transfer to State 1996-2006; operated by Kentucky River Authority.
- System operated for water supply, not navigation.
- Funded by state appropriations and water supply.

## Lower Fox River System, Wisconsin

- Built between 1853-1856; 17 locks along 39 miles of river.
- State leased locks for operator 1984-2004; transferred in 2004.
- Funding: combination of interest earned from federal payments, state appropriations and dedicated user fees.
- All locks except one now open for operation.

## Others systems

- Willamette Falls Heritage Foundation
- New York State Canal System



# FY 10 Costs for Allegheny River

<b>Organization Name</b>	<b>Maintenance Costs</b>	<b>Operations Cost</b>	<b>Grand Total</b>
<b>AR, Lock 2</b>	\$1,314,438	\$1,713,664	\$3,028,102
<b>AR, CWBY</b>	\$15,698	\$1,445,238	\$1,460,936
<b>AR, Lock 4</b>	\$1,243,786	\$1,015,184	\$2,258,970
<b>AR, Lock 5</b>	\$9,916	\$311,462	\$321,378
<b>AR, Lock 6</b>	\$41	\$506,916	\$506,957
<b>AR, Lock 7</b>	\$0	\$332,080	\$332,080
<b>AR, Lock 8</b>	\$0	\$235,641	\$235,641
<b>AR, Lock 9</b>	\$0	\$150,416	\$150,416
<b>Total Costs</b>	<b>\$2,583,879</b>	<b>\$5,710,602</b>	<b>\$8,294,481</b>



# Average Vessel Traffic from FY05-10

<b>River System</b>	<b>Commercial Vessels</b>	<b>Recreational Vessels</b>	<b>Total Vessels</b>
<b>Upper Ohio</b>	4,249	1,187	<b>5,482</b>
<b>Monongahela</b>	2,590	707	<b>3,310</b>
<b>Allegheny</b>	733	1,804	<b>2,506</b>
<b>Total</b>	<b>7,573</b>	<b>3,699</b>	<b>11,298</b>



# Average Annual Number of Vessels thru Allegheny River Locks and Dams Nos. 2 through 9 from year 2000-09

Location	Comm Lockages	Rec Lockages	Total Lockages	Comm Vessels	Rec Vessels	Total Vessels
<b>L&amp;D 2</b>	1,637	2,685	4,322	1,645	6,821	8,466
<b>L&amp;D 3</b>	1,488	1,642	3,130	1,498	2,777	4,275
<b>L&amp;D 4</b>	1,586	1,392	2,978	1,588	2,749	4,336
<b>L&amp;D 5</b>	542	1,005	1,547	545	1,838	2,382
<b>L&amp;D 6</b>	188	731	919	189	1,124	1,312
<b>L&amp;D 7</b>	196	664	859	197	1,261	1,458
<b>L&amp;D 8</b>	755	551	1,306	757	1,057	1,814
<b>L&amp;D 9</b>	12	514	526	12	1,081	1,094
<b>Allegheny River Totals</b>	<b>6,404</b>	<b>9,184</b>	<b>15,588</b>	<b>6,430</b>	<b>18,708</b>	<b>25,137</b>

