

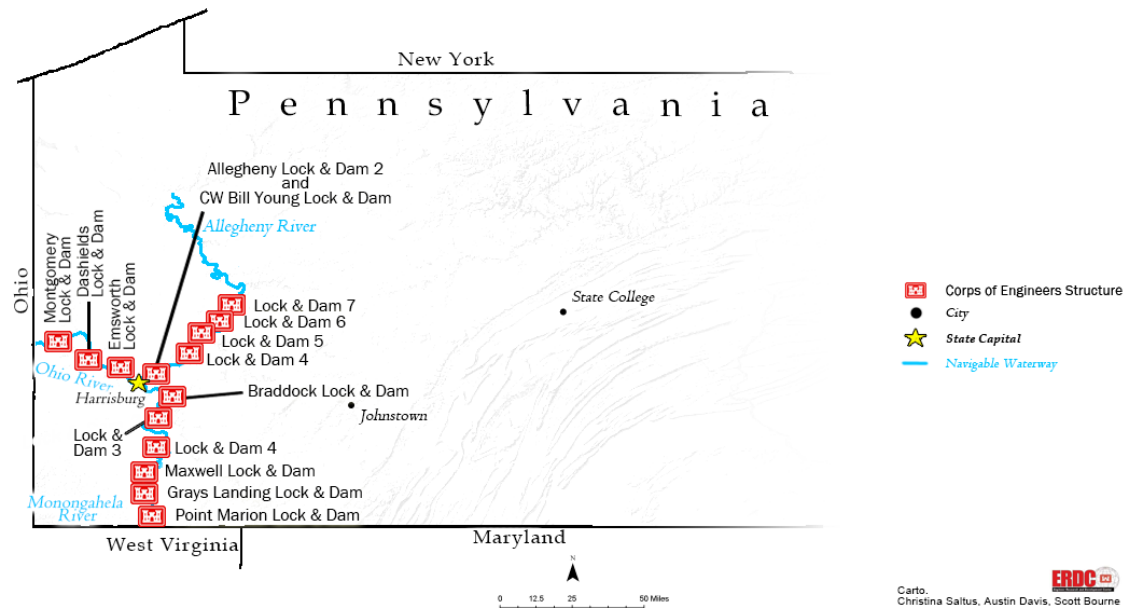


US Army Corps  
of Engineers

U.S. ARMY CORPS OF ENGINEERS

# Pennsylvania

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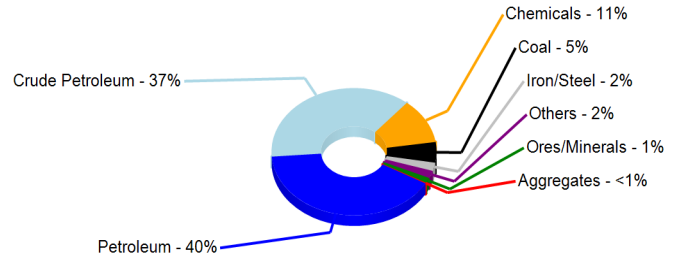


## 2016 State Quick Facts (Tons in Millions)

Tons Shipped -	15.2
Tons Received -	42.6
Tons Shipped Within State -	6.1
Total Commerical Docks -	119
Total Value (billions)-	\$19.18
Total Domestic Tons -	42.4
Total Import Tons -	18.6
Total Export Tons -	3.0
Total Tons -	63.9

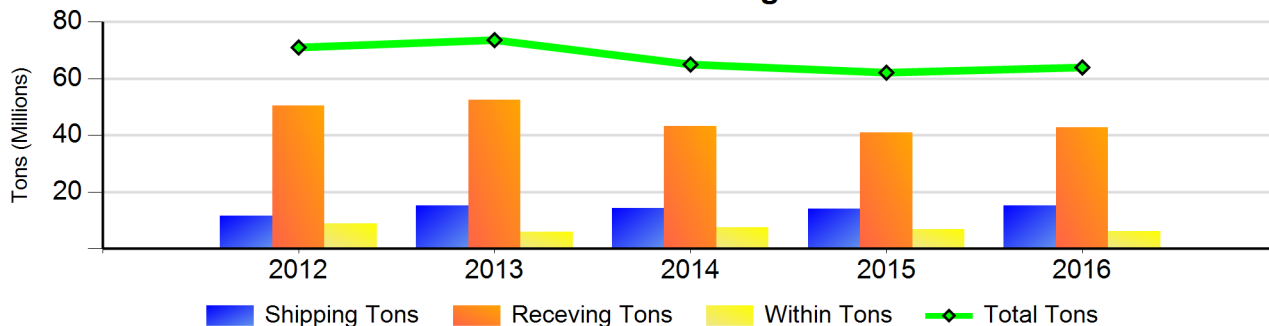
Source: Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 price level (Commodity dollar values are not calculated for foreign movements)

## 2016 All Traffic Commodity Value Distribution



Source: Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 price level. (Commodity dollar values are not calculated for foreign movements), Remaining 0% unable to release due to insufficient operators

## State Five Year Tonnage Trend



Source: USACE Waterborne Commerce Statistics

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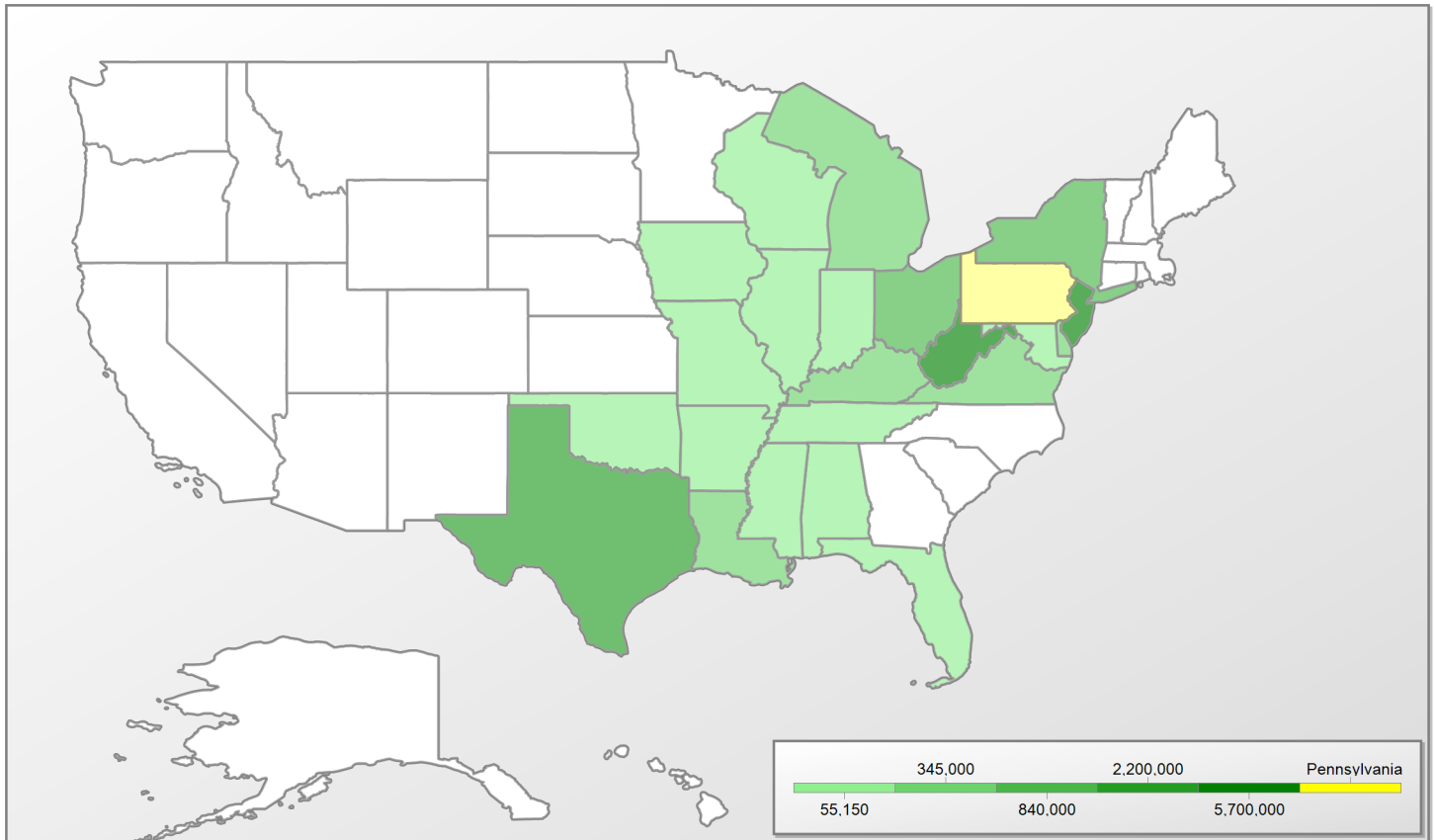
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# Pennsylvania - Continued

2016 States Sending Commodities to Pennsylvania



Source: USACE Waterborne Commerce Statistics

State Sending Tons	Total Tonnage Sent to Pennsylvania	Top Commodity - % of Total Sent to Pennsylvania	State Sending Tons	Total Tonnage Sent to Pennsylvania	Top Commodity - % of Total Sent to Pennsylvania
Foreign	17,187,494	Crude Petroleum-50%	Wisconsin	40155	**
New Jersey	9,114,615	Crude Petroleum-89%	Maryland	39775	Petroleum-100%
West Virginia	7,177,351	Coal-74%	Alabama	37062	Iron/Steel-96%
Texas	2,017,841	Crude Petroleum-70%	Missouri	36193	Aggregates-61%
Ohio	1,609,738	Aggregates-58%	Indiana	24002	**
Canada	1,376,903	**	Tennessee	9068	**
Louisiana	1,371,930	Ores/Minerals-40%	American Samoa	7956	**
Kentucky	687,956	Aggregates-66%	Iowa	3276	**
New York	681,319	**	Oklahoma	300	**
Delaware	443,214	Petroleum-78%			
Michigan	295,677	Aggregates-100%			
Virginia	148,843	**			
Illinois	134,646	**			
Arkansas	92,896	**			
Florida	60,774	**			
Mississippi	50,747	**			

\*\*Unknown and Not Elsewhere Classified Products

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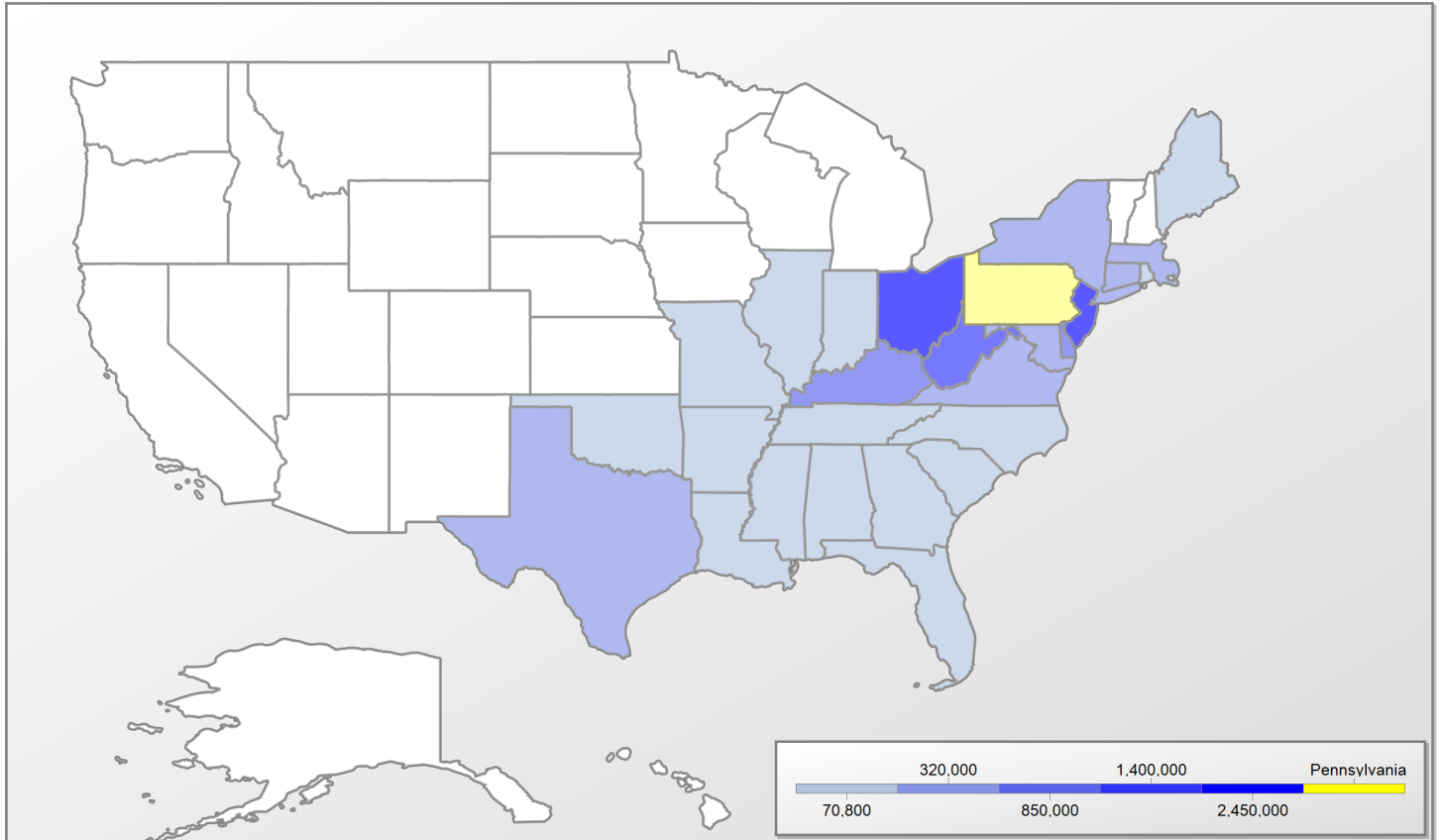
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# Pennsylvania - Continued

2016 States Receiving Commodities From Pennsylvania



Source: USACE Waterborne Commerce Statistics

State Receiving Tons	Total Tonnage Recieved from Pennsylvania	Top Commodity - % of Total Recieved from Pennsylvania	State Receiving Tons	Total Tonnage Recieved from Pennsylvania	Top Commodity - % of Total Recieved from Pennsylvania
Ohio	3,677,969	Coal-89%	Louisiana	66,709	Petroleum-90%
Foreign	2,876,045	Petroleum-31%	Rhode Island	64,479	**
New Jersey	2,012,224	Petroleum-97%	Georgia	59,385	Petroleum-96%
West Virginia	1,648,896	Coal-81%	Maine	45,064	**
Delaware	1,383,896	Petroleum-85%	Arkansas	41,265	**
Kentucky	971,596	Coal-71%	South Carolina	37,545	**
Virginia	458,045	**	Illinois	22,722	Iron/Steel-44%
Maryland	383,938	**	Mississippi	15,362	**
New York	280,849	Petroleum-100%	North Carolina	13,471	**
Massachusetts	252,475	Petroleum-100%	Indiana	12,142	**
Texas	226,770	**	Oklahoma	7,134	**
Connecticut	209,959	Petroleum-100%	Missouri	1,627	**
Florida	143,072	**			
Canada	108,778	**			
Tennessee	68,327	**			
Alabama	67,195	Iron/Steel-68%			

\*\*Unknown and Not Elsewhere Classified Products

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# Pennsylvania - Continued

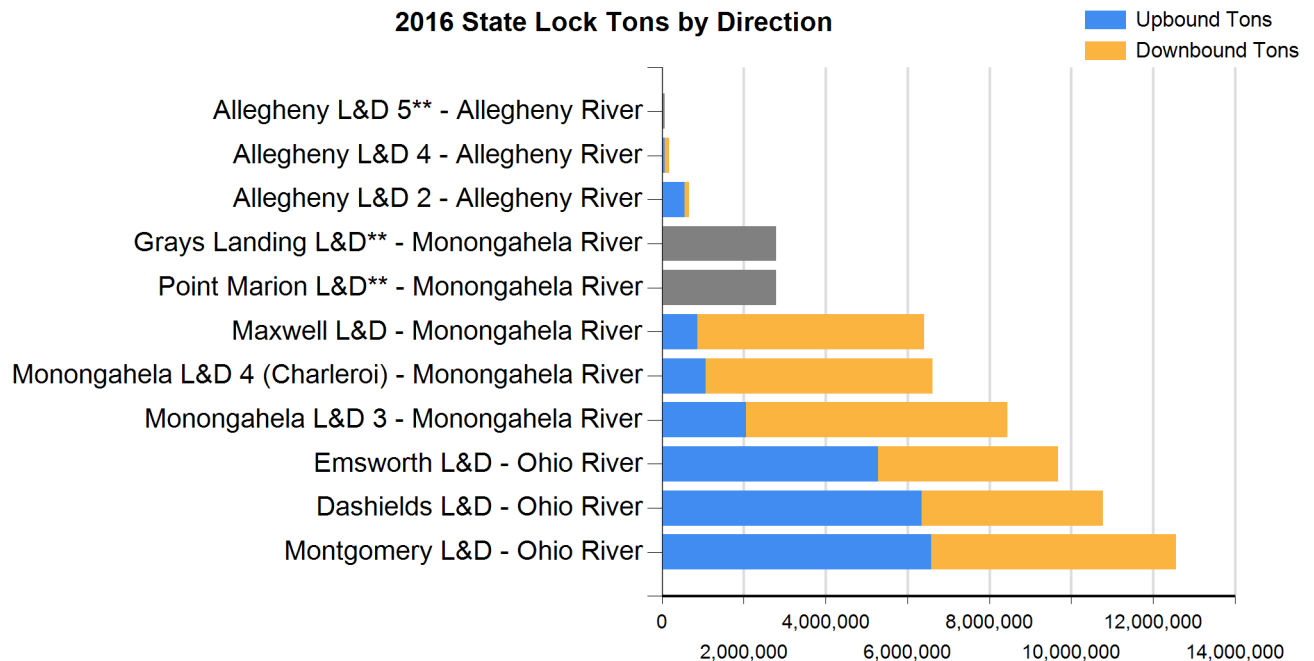
## Five Year Trend of Tonnage Shipped or Received in Pennsylvania

Commodity Group	Avg Tonnage (Millions)	% of Total Tons (All Years)	Five Year Commodity Trend (Millions of Tons)				
Aggregates	5,065,041	8%	5.60 2012	4.50 2013	5.11 2014	5.37 2015	4.76 2016
Chemicals	3,412,967	5%	2.94 2012	2.95 2013	3.45 2014	3.70 2015	4.02 2016
Coal	20,824,568	31%	25.78 2012	23.91 2013	22.20 2014	17.11 2015	15.12 2016
Crude Petroleum	18,491,259	28%	19.38 2012	23.46 2013	13.41 2014	15.55 2015	20.65 2016
Grains	78,824	**	0.09 2012	** - 2013	** - 2014	** - 2015	** - 2016
Iron/Steel	3,090,215	5%	3.12 2012	3.16 2013	4.33 2014	2.39 2015	2.46 2016
Ores/Minerals	1,610,688	2%	1.22 2012	1.21 2013	1.65 2014	2.77 2015	1.21 2016
Others	6,023,196	9%	5.10 2012	5.90 2013	6.58 2014	6.01 2015	6.54 2016
Petroleum	8,495,390	13%	7.73 2012	8.36 2013	8.15 2014	9.14 2015	9.10 2016

Source: USACE Waterborne Commerce Statistics

\*\* - Year = Insufficient Operators to Release Tonnage

## 2016 State Lock Tons by Direction



Source: USACE Waterborne Commerce Statistics

\*\* - Insufficient operators to release directional tonnage

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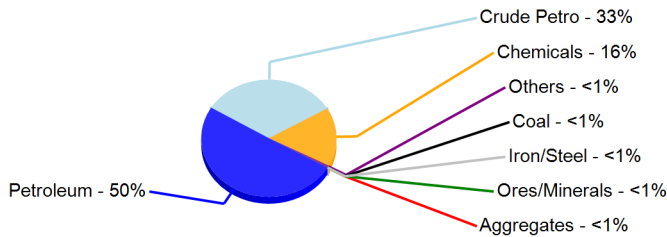
# Pennsylvania - Continued

## Commodity Value Distribution Charts by Waterway Type

Source: Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 price level (Values Not Calculated for Foreign Movements)

### 2016 Coastal Traffic Commodity Value Distribution

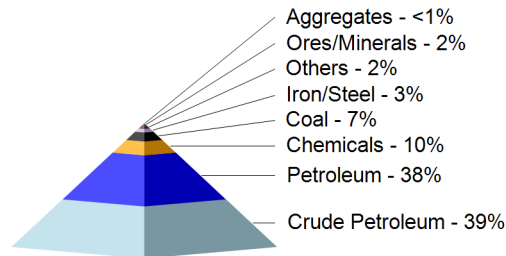
Total Value: \$4.15 (Billion)



Remaining <1% unable to release due to insufficient operators

### 2016 River Traffic Commodity Value Distribution

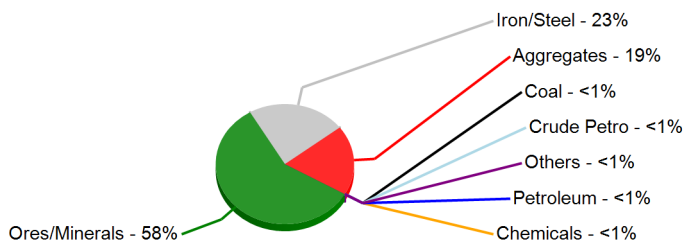
Total Value: \$15.00 (Billion)



Remaining <1% unable to release due to insufficient operators

### 2016 Great Lakes Traffic Commodity Value Distribution

Total Value: \$0.03 (Billion)



Remaining <1% unable to release due to insufficient operators

## Pennsylvania 2016 Top 5 Waterways (Tons in thousands; values in Millions of dollars)

Waterway Name	State Rank	Tons	Value
Delaware River	1	38,738.8	\$13,521.7
Monongahela River, PA and WV	2	11,729.6	\$1,216.1
Ohio River	3	10,799.7	\$1,978.6
Schuylkill River, PA	4	3,177.9	\$3,108.1
Lake Erie, Including Upper Niagara River	5	718.7	\$26.0

Commodity Values not calculated for foreign/coastal movements.

Source: USACE Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 price level

\*\* Insufficient operators to release tonnage

## Pennsylvania 2016 Top 3 Ports (Tons in thousands)

Port Name	U.S. Rank	Type	Total Port Tons	Port Tons Within State
Philadelphia, PA	7	River/Coastal	22,973.2	22,973.2
Pittsburgh, PA	4	River	22,467.5	22,148.7
Marcus Hook, PA	9	River/Coastal	15,692.3	14,602.2

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