

Waterborne Commerce Statistics Center

Amy Tujague, Special Requests Project Manager

**Waterborne Commerce Statistics Center
Navigation & Civil Works Decision Support Center
USACE Institute for Water Resources**



30 March 2016



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





**US Army Corps
Of Engineers**

Waterborne Commerce and Vessel Statistics



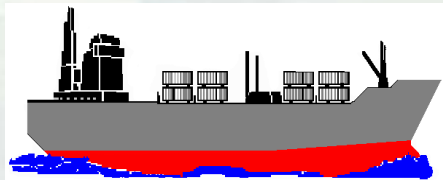
**Institute for
Water Resources**

- **The River & Harbors Act of 1922 (amended and codified in 33 U.S.C. 555) authorizes the USACE to collect, process, distribute and archive waterborne commercial vessel trip and cargo data.**
 - **analyze the feasibility of new water transportation projects and activities**
 - **set priorities for new investment and rehabilitation**
 - **management of the operations and maintenance of existing projects.**
- **Under Federal law, vessel-operating companies must report domestic waterborne commercial vessel movements directly to the USACE.**
- **U.S. Customs and Border Protection, U.S. Census Bureau and the Port Import Export Reporting Service provide U.S. foreign waterborne cargo and vessel movement data.**
- **Movement data acquired by the Center is primarily for the use of the Corps and other government agencies; however, summary statistics, which do not disclose movements of individual companies, are also released to private companies and to the general public.**

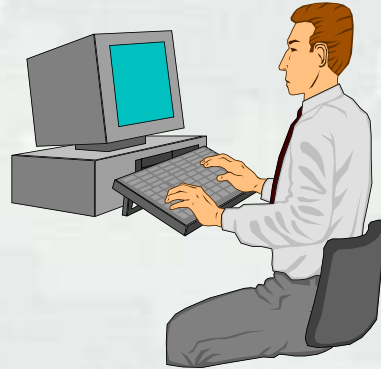


WCSC Data Flow

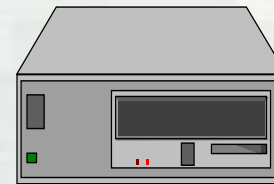
Collection



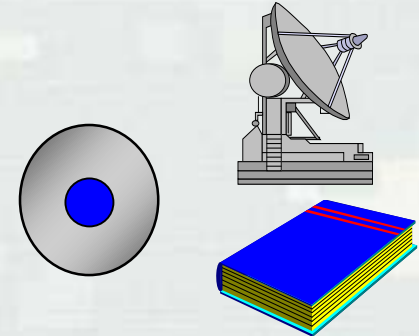
Input



Data Processing



Distribution



Partnership with :

- Carriers
- Customs
- Port & Terminal Operators
- Corps Operations
- Corps Regulatory
- NDC Staff

Supported by :

- Contractors
- Corps Offices
- NDC Staff
- Customs
- Census

Internal Activities:

- Editing
- Enforcement
- Routing
- Information Generation
- Decision Support
- Publishing

- Fact Card
- WCUS
- WTLUS
- Lock Info
- Port Facilities
- Dredging Stats
- Other CW Business Line Products



US Army Corps
Of Engineers

DOMESTIC Vessel Moves To Report



Institute for
Water Resources

- Dry cargo ships and tankers
- Barges (loaded and empty)
- Towboats (except harbor assistance and barge shifting)
- Crew boats and supply boats
- First move of newly constructed vessels

NOTE: Do NOT collect recreation, commercial fishing, fire, police, patrol, military vessels, nor vessels used in construction activities



**US Army Corps
Of Engineers**

DOMESTIC

Data Collected from Vessel
Operating Companies



Institute for
Water Resources

Vessel - Vessel Type - Commodity - Tonnage
Alternate Routes - Vessel Operator

Origin:

Port/Waterway
Dock Shipping
Date Shipping
Draft Shipping

Destination:

Port/Waterway
Dock Receiving
Date Receiving
Draft Receiving



**US Army Corps
Of Engineers**

U. S. Foreign Waterborne Transportation Statistics Program



**Institute for
Water Resources**

On September 28, 1998 the Office of Management and Budget (OMB) designated the U.S. Army Corps of Engineers as the central collection agency for the U.S. Foreign Waterborne Transportation Statistics Program, effective October 1, 1998.



**US Army Corps
Of Engineers**

Entrances and Clearances



**Institute for
Water Resources**

- Foreign entrances and clearances furnished to the Corps by U.S. Customs and Border Protection
- Date of entry/clearance
- US Custom's Port
- Dock
- Last/previous Port of call
- Vessel IMO and characteristics
- Vessel draft



Foreign Commerce



- Data on foreign commerce are supplied to the Corps of Engineers by the U.S. Bureau of the Census, the U.S. Customs and Border Protection, and purchased from the IHS Maritime & Trade, Port Import Export Reporting Service.
- Foreign commerce is waterborne import, export and in-transit traffic between the United States, Puerto Rico and the Virgin Islands and any foreign country.
- These statistics do not include traffic between any foreign country and the United States Territories and Possessions (American Samoa, Guam, North Mariana Islands and U.S. Outlying Islands).



**US Army Corps
Of Engineers**

Processed Foreign



**Institute for
Water Resources**

- Entrances and Clearances dock level information is matched to both the Census and PIERS foreign cargo files to put foreign commerce at the correct docks.
- Vastly improves geographic specificity with dock level information, able to aggregate tonnages to various geographical categories.



**US Army Corps
Of Engineers**

WCSC Geographic Aggregation



**Institute for
Water Resources**

- National
- Waterway
- State
- County
- Port
- Congressional District
- Corps Project
- Past a point
- On a reach
- Dock



US Army Corps
Of Engineers

Availability of Detailed Dock to Dock Statistics



Institute for
Water Resources

33 CFR 209.320

§ 209.320 Policy on release of commercial statistics.

The collection of commercial statistics pertaining to rivers, harbors, and waterways, and annual reports thereof to Congress, are required by the River and Harbor Act of June 23, 1866 (14 Stat. 70), the act of February 21, 1891 (26 Stat. 766), the River and Harbor Act of June 13, 1902 (32 Stat. 376), the River and Harbor Act of July 25, 1912 (37 Stat. 201), the River and Harbor Act of September 22, 1922 (42 Stat. 1043), and Pub. L. No. 16, February 10, 1932 (47 Stat. 42). **It is the policy of the Department to hold in strict confidence any data or information which has been furnished by shippers and others upon the understanding that it will not be disclosed and will only be used in the compilation of port or waterway statistics.** In case Federal or State agencies or local interests request other than general information made permissible hereunder, their attention will be called to the policy indicated in this section.



**US Army Corps
Of Engineers**

Data Confidentiality



**Institute for
Water Resources**

- USACE – All Foreign and Domestic Data
- Federal Agencies – Domestic Data Only
- State taxation and revenue departments (domestic petroleum products movements only)

Data is considered to be proprietary and therefore are not available to the general public as stated in the Trade Secrets Act

Title 18, U.S. Code, Chapter 93, Section 1905



**US Army Corps
Of Engineers**

Rule Of Three Domestic



**Institute for
Water Resources**

- There must be at least three vessel operating companies moving a particular commodity from an area of origin to an area of destination in order for those data to be released publicly.
- Historical exceptions are made to “The Rule of Three”. For years, WCSC has published waterborne commerce in Waterborne Commerce of the United States. WCSC does not verify “The Rule of Three” for traditional publications.



Principal Ports



Tonnage for Principal US Ports:

- By Port Tons
- By Port Name
- By State Tons
- By State Name

Tonnage for Selected U.S. Ports in 2014

(Short Tons)
Sorted by Port Tons

	Port Name	Port Tons	State Name	State Tons	Data	NDC Home
RANK	PORT_NAME	TOTAL	DOMESTIC	FOREIGN	IMPORTS	EXPORTS
1	South Louisiana, LA, Port of	267,392,170	141,561,700	125,830,470	40,351,094	85,479,376
2	Houston, TX	234,304,391	73,767,594	160,536,797	76,688,415	83,848,382
3	New York, NY and NJ	126,158,655	46,529,478	79,629,177	60,787,817	18,841,360
4	Beaumont, TX	87,283,716	34,346,080	52,937,636	39,175,258	13,762,378
5	Long Beach, CA	85,026,064	10,882,939	74,143,125	47,797,480	26,345,645
6	Corpus Christi, TX	84,928,330	40,182,795	44,745,535	26,462,411	18,283,124
7	New Orleans, LA	84,467,013	47,355,157	37,111,856	17,688,560	19,423,296
8	Baton Rouge, LA	69,185,878	42,803,795	26,382,083	12,853,629	13,528,454
9	Mobile, AL	64,287,565	27,461,022	36,826,543	18,308,123	18,518,420
10	Los Angeles, CA	61,016,924	5,770,177	55,246,747	34,258,035	20,988,712
11	Lake Charles, LA	56,801,454	28,061,568	28,739,886	20,042,990	8,696,896
12	Plaquemines, LA, Port of	55,494,992	35,326,019	20,168,973	2,254,918	17,914,055
13	Cincinnati-Northern KY, Ports of	49,930,467	49,930,467	0	0	0
14	Norfolk Harbor, VA	47,999,943	6,005,329	41,994,614	10,508,905	31,485,709
15	Texas City, TX	47,884,949	18,838,804	29,046,145	15,465,441	13,580,704
16	Huntington - Tristate	46,414,270	46,414,270	0	0	0
17	St. Louis, MO and IL	38,872,599	38,872,599	0	0	0
18	Duluth-Superior, MN and WI	37,389,983	28,489,594	8,900,389	654,789	8,245,600
19	Baltimore, MD	37,157,348	6,868,369	30,288,979	12,915,054	17,373,925
20	Port Arthur, TX	36,669,609	10,958,084	25,711,525	7,509,203	18,202,322
21	Tampa, FL	35,193,654	22,567,609	12,626,045	6,790,932	5,835,113
22	Savannah, GA	34,359,148	1,293,132	33,066,016	15,778,045	17,287,971
23	Pittsburgh, PA	31,498,610	31,498,610	0	0	0
24	Pascagoula, MS	27,896,291	9,620,969	18,275,322	11,194,000	7,081,322
25	Valdez, AK	26,512,732	26,383,084	129,648	0	129,648



Waterborne Commerce of the United States - Cargo



- Traffic & Direction
By Commodity:
Upbound
Downbound:
- Domestic
 - Foreign
 - Inbound
 - Outbound
 - Through
 - Intra

PORT OF SOUTH LOUISIANA (LA)

Section Included: Both banks of Mississippi River from mile 114.9 A.H.P. through mile 168.5 A.H.P. Maintained Depth: 45 feet. Tidal range to 3 feet at mean higher high water.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
2005	212,245	2008	223,987	2011	246,509	2014	267,390
2006	225,489	2009	212,581	2012	252,091		
2007	229,040	2010	236,262	2013	238,585		

Freight Traffic, 2014 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Inbound	Outbound	Inbound	Outbound
Total, all commodities	125,830	38,877	83,572	1,475	1,908
Total coal	7,536	60	7,476	—	—
1100 coal & lignite	7,502	49	7,453	—	—
1200 coal coke	34	11	23	—	—
Total petroleum and petroleum products	36,074	15,508	18,541	186	1,840
Subtotal crude petroleum	8,140	6,360	256	—	1,525
2100 crude petroleum	8,140	6,360	256	—	1,525
Subtotal petroleum products	27,934	9,148	18,285	186	315
2211 gasoline	1,289	31	1,091	8	159
2221 kerosene	53	53	—	—	—
2330 distillate fuel oil	21,005	7,401	13,390	86	128
2340 residual fuel oil	3,222	1,081	2,048	93	—
2350 lube oil & greases	77	0	77	—	—
2429 naphtha & solvents	1,006	459	548	—	—
2430 asphalt, tar & pitch	25	—	25	—	—
2540 petroleum coke	1,226	93	1,106	—	28
2640 hydrocarbon & petrol gases, liquefied and gaseous	29	29	—	—	—
Total chemicals and related products	10,584	9,805	729	50	—
Subtotal fertilizers	7,601	7,433	125	43	—
3110 nitrogenous fert	5,011	4,935	76	—	—



Waterborne Container Traffic for US Ports



TEUs for

Principal US Ports:

- By Port TEUs
- By Port Name

U.S. Waterborne Container Traffic by Port/Waterway in 2014

(Loaded and Empty TEUs¹)

By Port TEUS										
		By Port Name		By State		Data	NDC Home	Previous Years		
PORT_WATERWAY_NAME	STATE	DOMESTIC					FOREIGN			Grand Total Loaded
		InBound		OutBound		Total	InBound	OutBound	Total	
		Loaded	Empty	Loaded	Empty		Loaded	Loaded		
Los Angeles	CA	0	0	0	0	0	4,193,388	1,719,027	5,912,415	5,912,415
Long Beach	CA	85,496	51,687	299,504	1,083	437,770	3,605,263	1,359,513	4,964,776	5,349,776
New York (NY and NJ)	NJ	12,848	4,367	20,088	2,311	39,614	2,756,021	1,252,874	4,008,895	4,041,831
Savannah	GA	0	0	0	0	0	1,349,446	1,255,842	2,605,288	2,605,288
Elizabeth River	VA	36,533	17,111	33,978	8,644	96,266	980,155	948,563	1,928,718	1,999,229
Oakland	CA	26,056	59,922	132,983	2,769	221,730	829,699	780,310	1,610,009	1,769,049
Tacoma	WA	90,345	51,309	266,158	2,412	410,224	866,041	491,545	1,357,586	1,714,089
Houston	TX	18,338	674	18,894	2,018	39,924	748,552	878,664	1,627,216	1,664,448
Charleston	SC	0	0	0	0	0	749,113	684,607	1,433,720	1,433,720
Seattle	WA	90,825	155,459	156,251	17,267	419,802	368,788	392,399	761,187	1,008,263
Honolulu	HI	524,514	112,247	338,165	157,008	1,131,934	21,725	7,530	29,255	891,934
Jacksonville	FL	92,611	80,133	383,824	473	557,041	172,968	151,227	324,195	800,630
San Juan	PR	481,083	940	124,954	97,896	704,873	147,198	20,665	167,863	773,900
Port Everglades	FL	407	0	8,817	0	9,224	335,342	403,935	739,277	748,501
Miami	FL	0	0	0	0	0	345,014	337,372	682,386	682,386
Baltimore	MD	19,144	1,494	15,021	6,542	42,201	349,668	190,542	540,210	574,375
Anchorage	AK	252,586	2,500	81,880	51,846	388,812	380	0	380	334,846
New Orleans	LA	0	0	0	0	0	94,169	235,599	329,768	329,768
New York (NY and NJ)	NY	20,088	2,311	12,848	4,367	39,614	191,885	102,194	294,079	327,015
Philadelphia	PA	20,048	931	54,484	8,542	84,005	181,684	61,573	243,257	317,789
Wilmington	NC	0	0	0	0	0	113,749	115,816	229,565	229,565
Wilmington	DE	0	0	0	0	0	170,611	23,637	194,248	194,248
Boston	MA	0	0	0	0	0	105,326	74,379	179,705	179,705
Mobile	AL	0	0	0	0	0	71,658	103,073	174,731	174,731
Palm Beach	FL	0	0	0	0	0	46,401	109,965	156,366	156,366



**US Army Corps
Of Engineers**

Available Online Data



**Institute for
Water Resources**

- Waterborne Commerce of the United States
- Foreign Cargo tonnages by port
- Customs entrances and clearances by dock
- Container Traffic
- Monthly Indicators for inland commodity tonnages
- Principal Ports
- Public Domain Database. Origin/Destination information
- Download databases, excel files, and text files
- **Most up to date data available**



**US Army Corps
Of Engineers**

Special Requests General Public



**Institute for
Water Resources**

- Data not available online and does NOT break “Rule of 3”.

Examples:

- Past a specific mile point on a waterway
- Bridge Study
- Special commodity groupings
- Special waterway groupings

- May be a charge.



**US Army Corps
Of Engineers**

Contact Information



**Institute for
Water Resources**

Amy Tujague

Project Manager

USACE Waterborne Commerce Statistics Center

504-487-3090

Amy.C.Tujague@usace.army.mil

<http://www.navigationdatacenter.us/>