

PROFILES OF Top U.S. Agricultural Ports



The ocean transportation system is essential in the movement of agricultural products to customers around the world. In calendar year 2017, agricultural exporters moved 197 million metric tons of waterborne cargo valued at over \$153 billion (PIERS). The following Agricultural Port Profiles provide a view of the top 20 U.S. ocean ports moving agricultural export and import traffic (see table). The Profiles provide detailed information on commodities moved, shipping lines used, as well as destination and origin markets.

Top 20 U.S. Ports Moving Waterborne Agricultural Trade, 2017

Rank	U.S. Ports	State	Imports	Exports	Total	Share
			Metric Tons			
1	New Orleans Port Region*	LA	1,952,594	70,584,163	72,536,757	37%
2	New York/New Jersey	NY	8,829,822	1,312,863	10,142,685	5%
3	Kalama	WA	0	10,125,680	10,125,680	5%
4	Los Angeles	CA	2,595,601	6,665,401	9,261,003	5%
5	Tacoma	WA	256,165	7,480,590	7,736,755	4%
6	Houston	TX	2,341,184	4,757,613	7,098,797	4%
7	Long Beach	CA	2,384,484	4,564,265	6,948,749	4%
8	Seattle	WA	784,395	5,670,057	6,454,452	3%
9	Oakland	CA	2,026,823	4,264,143	6,290,966	3%
10	Norfolk	VA	1,381,092	4,663,980	6,045,071	3%
11	Longview	WA	0	5,410,185	5,410,185	3%
12	Savannah	GA	2,395,747	2,722,564	5,118,311	3%
13	Vancouver	WA	777	4,421,787	4,422,563	2%
14	Portland	OR	9,970	4,151,703	4,161,673	2%
15	Philadelphia	PA	3,519,151	155,367	3,674,518	2%
16	Corpus Christi	TX	1,024	3,220,930	3,221,953	2%
17	Wilmington	DE	2,382,887	19,004	2,401,892	1%
18	Pt Everglades	FL	1,504,935	724,891	2,229,826	1%
19	Baltimore	MD	1,985,159	213,299	2,198,458	1%
20	Charleston	SC	528,892	1,202,945	1,731,836	1%
	Other		11,328,456	8,584,190	19,912,648	9%
	Total		46,209,158	150,915,620	197,124,778	100%

*New Orleans Port Region includes: South Louisiana, New Orleans, Baton Rouge, Avondale, St Rose, Gramercy, and Destrehan, LA

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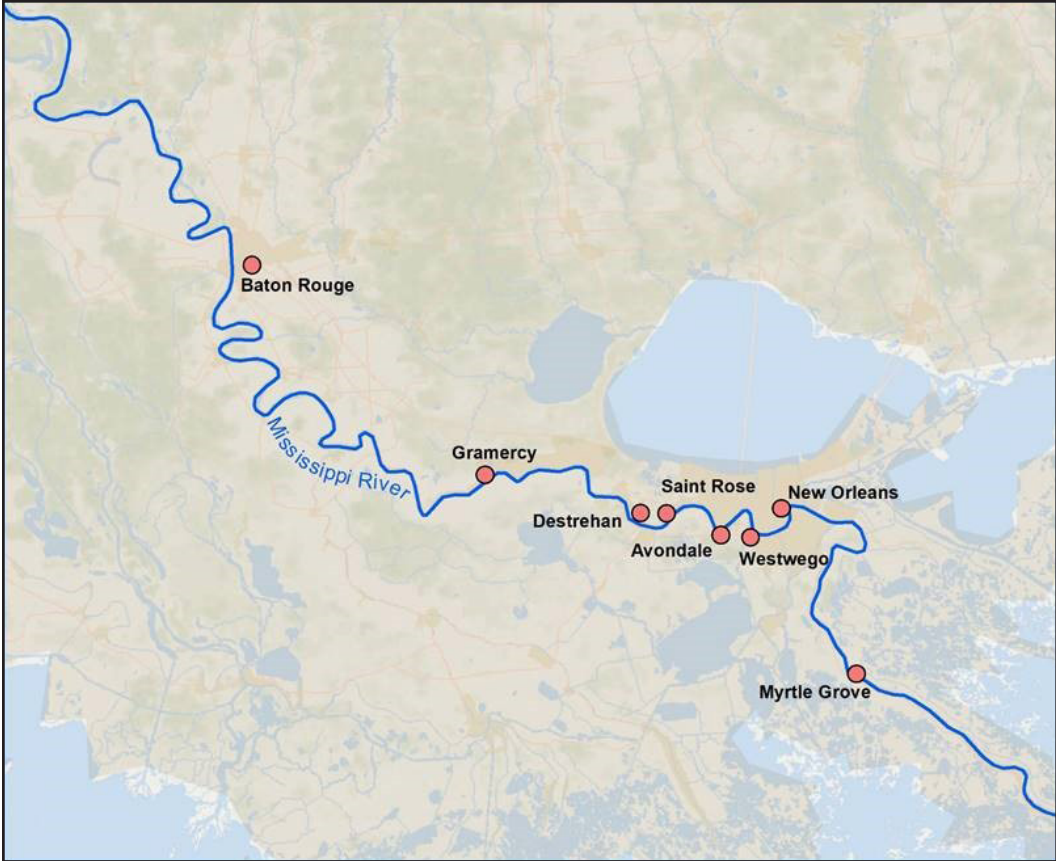
Export/Import Profile

New Orleans, LA Port Region

The Mississippi River system is a critical artery in the U.S. grain marketing system, necessary to competitively serve global markets for corn, wheat, oilseeds, and grain products. In a typical year, Mississippi Gulf ports ship about 2 billion bushels of grain to their final destinations around the globe.

The New Orleans Port Region brings all modes of transportation (ocean, barge, rail, and truck) together by allowing ocean-going vessels to serve ports 228 miles upriver from the Gulf of Mexico. These ports provide easy access to the Gulf of Mexico, Caribbean Sea, Atlantic Ocean, and Panama Canal.

Ports situated along the Mississippi River from Baton Rouge to Myrtle Grove, LA, are often referred to as simply New Orleans or the New Orleans Port Region (see map below). These ports are close enough together—sometimes even adjacent—to give the appearance of one large port complex.



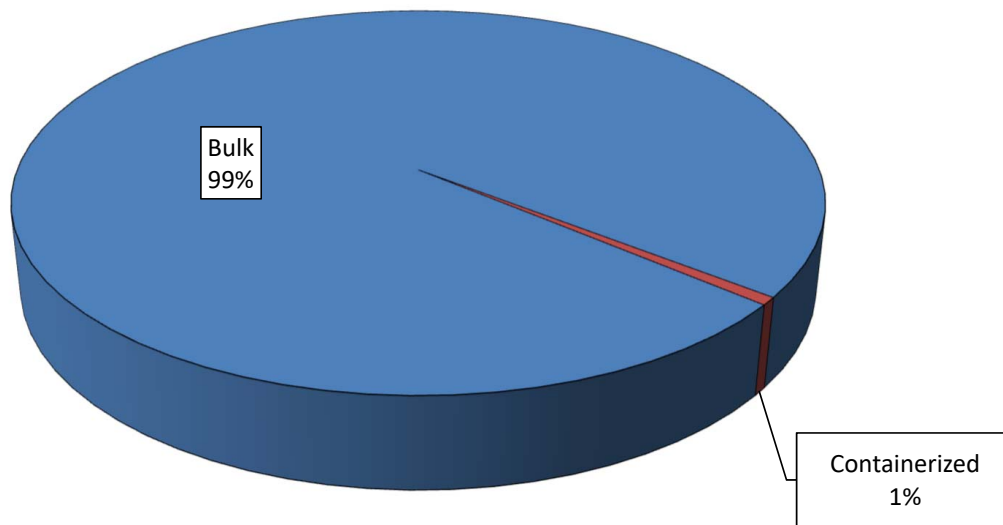
The best example of this is the Port of South Louisiana, a group of ports that stretches 54 miles along the Mississippi River and handled over 307 million short tons of cargo in 2017. The Port of South Louisiana moves more agricultural tonnage than any other North American port. Grain products accounted for more than 64 percent of the port's total export cargo in 2017. Generally, the Port of South Louisiana services over 4,500 oceangoing vessels and 65,000 barge shipments each year.

Exports

The New Orleans Port Region moves a significant percentage of U.S. waterborne agricultural exports—47 percent in 2017. The majority of these exports were bulk grains and bulk grain products, such as corn, soybeans, animal feed, and rice. The region also supports a significant amount of edible oil exports, such as soybean and corn oils and even attracted 13 percent of U.S. waterborne frozen poultry exports in 2017.

Approximately, 99 percent of agricultural exports through the New Orleans Port Region moved in bulk vessels and only 1 percent needing refrigeration. The top destination country was China, representing 20 percent of total exports through the port, followed by Japan, Mexico, and Colombia.

U.S. Waterborne Agricultural Exports Through New Orleans Port Region, LA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through New Orleans Port Region, LA, 2017

Commodity	Metric Tons	Share	U.S. Share
Soybeans	31,451,153	45%	64%
Grain products, bread, flour	27,992,175	40%	70%
Bulk grains	3,707,698	5%	17%
Animal feed	3,142,090	4%	29%
Rice	1,855,704	3%	68%
Other	2,435,343	3%	
Total	70,584,163	100%	47%

Source: IHS Markit/PIERS

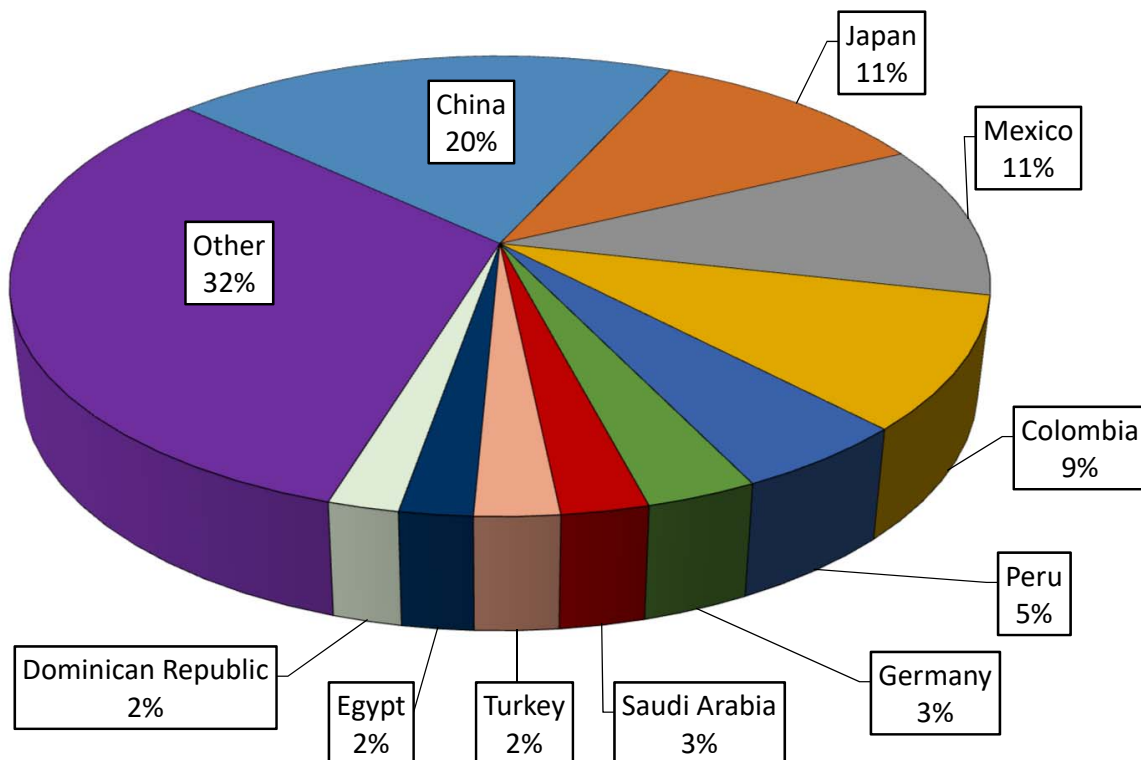
U.S. Containerized Waterborne Agricultural Exports Through New Orleans Port Region, LA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Poultry	241,997	18,712	53%	10%
Rice	51,415	2,780	11%	8%
Grocery items	37,763	4,165	8%	1%
Meat	34,740	3,105	8%	1%
Non-alcoholic beverages	10,920	873	2%	1%
Animal feed	10,016	808	2%	0%
Fish meal	9,969	775	2%	7%
Grain products, bread, flour	8,626	745	2%	1%
Feathers, down, hair	6,267	497	1%	14%
Bitters, brandy, liquor	5,808	335	1%	4%
Other	38,622	3,362	8%	
Total	456,145	36,156	100%	1%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through New Orleans Port Region, LA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through New Orleans Port Region, LA, 2017

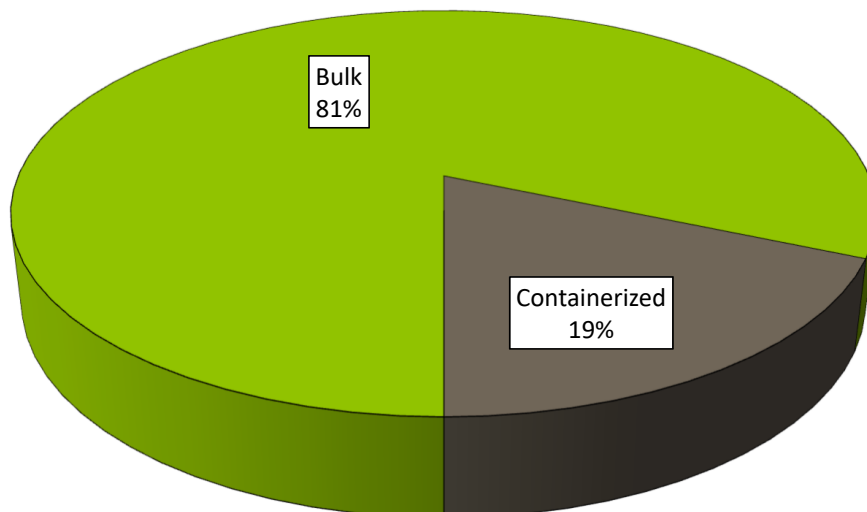
Shipping Line	Metric Tons	Share
Unknown Bulk Carriers	62,904,088	89%
United Bulk Carriers	3,061,288	4%
Polish Steam Ship Co	912,491	1%
Pacnav	758,994	1%
Cosco Bulk Carrier Co	496,175	1%
Mt Maritime Management (Usa) Llc	384,107	1%
Mediterranean Shipping	200,339	0%
Pan Ocean Shipping	173,051	0%
Oldendorff Carriers Indotrans	168,898	0%
D'Amico Dry Ltd	164,627	0%
Other	1,360,104	2%
Total	70,584,163	100%

Source: IHS Markit/PIERS

Imports

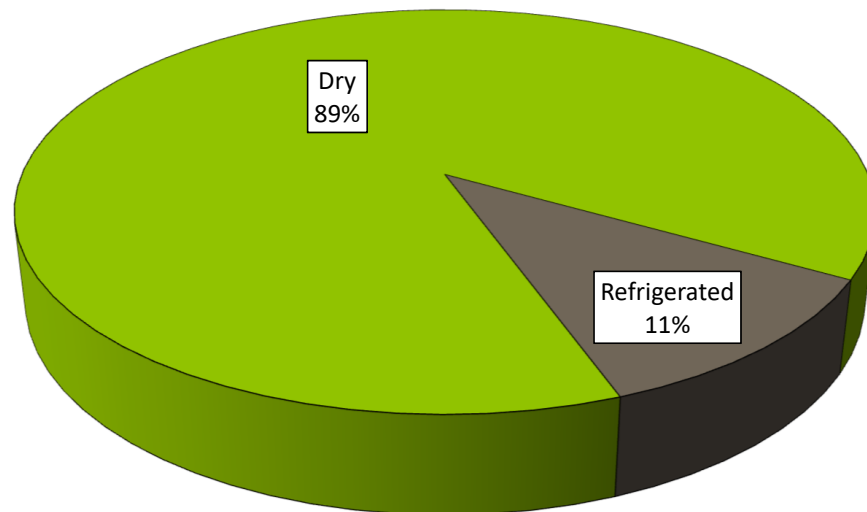
New Orleans is also an important port region for U.S. agricultural imports. The port region moved nearly 1.95 million metric tons of waterborne agricultural imports in 2017. A significant amount of U.S. waterborne edible oils imports such as coconut, palm and peanut oils transit the New Orleans Port Region. Nearly 81 percent of the agricultural imports through the region moved in bulk vessels. The top origin countries were Venezuela, Indonesia, Malaysia, and Mexico.

U.S. Waterborne Agricultural Imports Through New Orleans Port Region, LA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through New Orleans Port Region, LA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through New Orleans Port Region, LA, 2017

Commodity	Metric Tons	Share	U.S. Share
Coffee	495,401	25%	21%
Palm oil	346,140	18%	35%
Palm kernel oil	265,918	14%	39%
Sugar	149,152	8%	7%
Chewing gum	133,774	7%	12%
Coconut oil	115,367	6%	31%
Canned pineapples	85,398	4%	18%
Canned fish	62,167	3%	18%
Wine	51,178	3%	1%
Molasses, treacle	46,100	2%	7%
Other	201,999	10%	
Total	1,952,594	100%	4%

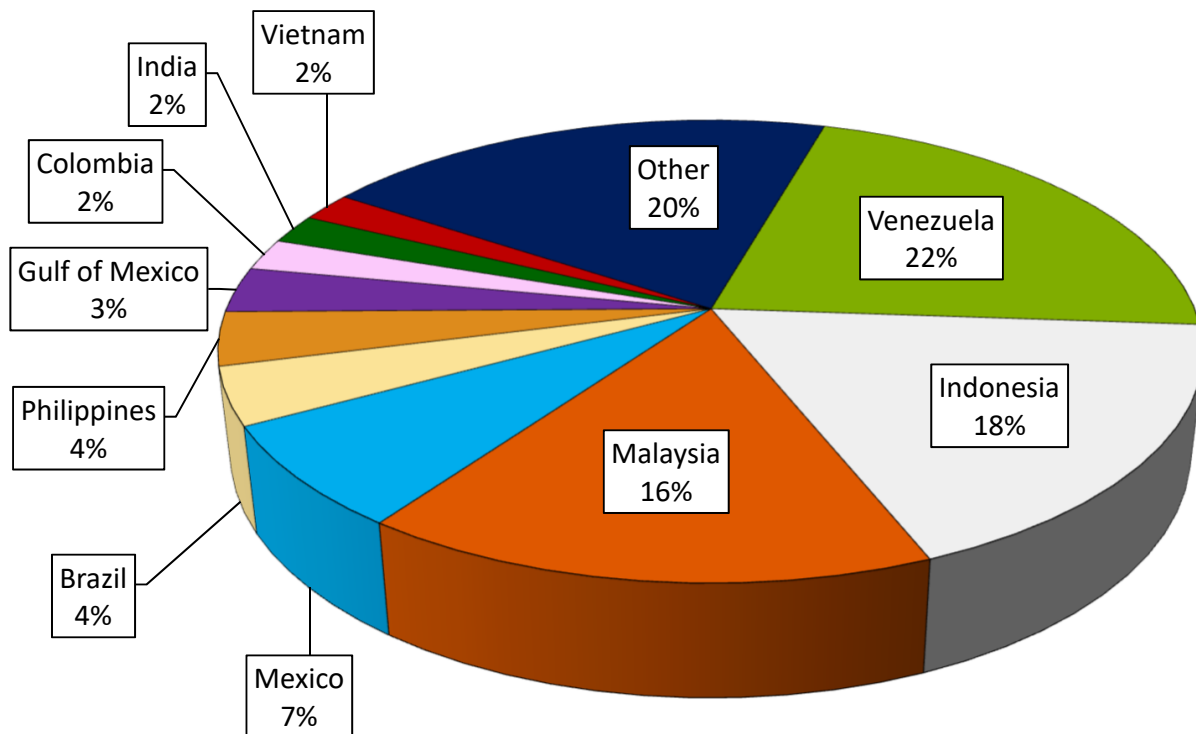
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Imports Through New Orleans Port Region, LA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Coffee	240,536	12,788	66%	15%
Soybeans	35,179	1,745	10%	9%
Wine	10,332	992	3%	1%
Grocery items	8,809	605	2%	1%
Canned vegetables	8,228	378	2%	3%
Tea	8,043	712	2%	6%
Bitters, spirits, liquor	5,709	609	2%	1%
Instant coffee	5,549	625	2%	11%
Vegetables	4,512	367	1%	0%
Fish meal	3,624	313	1%	5%
Other	32,504	2,443	9%	
Total	363,027	21,577	100%	1%

Source: IHS Markit/PIERS
*Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through New Orleans Port Region, LA, 2017



**Top Shipping Lines Moving U.S. Waterborne Agricultural Imports
Through the New Orleans Port Region, 2017**

Shipping Line	Metric Tons	Share
Unknown Bulk Carriers	250,618	13%
Cargill Intl	208,546	11%
Changdris (Hellas) Inc	167,990	9%
Mediterranean Shpg	156,938	8%
Eletson Chartering Inc	126,602	6%
Hapag Lloyd Line	107,379	5%
MT Maritime Management (USA) LLC	93,071	5%
Raffles Shipping & Investment	92,931	5%
Atlas Maritime Ltd	83,097	4%
Heidenreich Marine Inc	62,014	3%
Other	603,407	31%
Total	1,952,594	100%

Source: IHS Markit/PIERS



Export/Import Profile

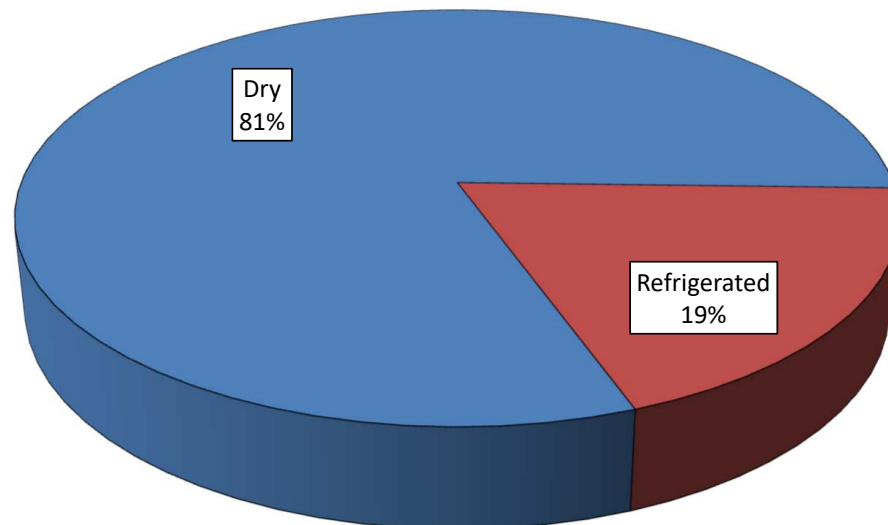
New York/New Jersey

The Port of New York/New Jersey is located in the U.S. northeast and is the largest port (by volume) on the east coast moving nearly 80 million metric tons of cargo in 2016. The port has six container terminals which moved more than 6.7 million twenty-foot equivalent units in 2017. The majority of agricultural traffic through the port is containerized. In June 2017, the port authority, in conjunction with local officials, completed the multi-year project to raise the Bayonne Bridge which allowed the industry's newer, mega-ships access to additional marine terminals.

Exports

In 2017, the Port of New York/New Jersey moved more than 1.3 million metric tons of agricultural exports making it the 15th largest port in the nation for total waterborne agricultural exports, and 8th for containerized waterborne agricultural exports. Approximately 98 percent of these products moved in containers. The commodities with the largest volumes were soybeans, grocery items, and animal feed, representing approximately 49 percent of the port's agricultural exports. The top shipping lines included Mediterranean Shipping, CMA-CGM, and Zim Israeli Navigation; the top destination markets were Indonesia, China, United Kingdom, and the Netherlands.

U.S. Waterborne Agricultural Exports Through New York/New Jersey, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through New York/New Jersey, 2017

Commodity	Metric Tons	Share	U.S. Share
Soybeans	284,674	22%	1%
Grocery items	242,663	18%	7%
Animal feed	122,186	9%	1%
Dairy products	87,424	7%	11%
Meat	67,071	5%	3%
Non-alcoholic beverages	49,515	4%	5%
Grain products, bread, flour	42,749	3%	0%
Vegetable oils	42,384	3%	5%
Candy, confections	35,267	3%	10%
Beer, ale	34,856	3%	8%
Other	304,072	23%	
Total	1,312,863	100%	1%

Source: IHS Markit/PIERS

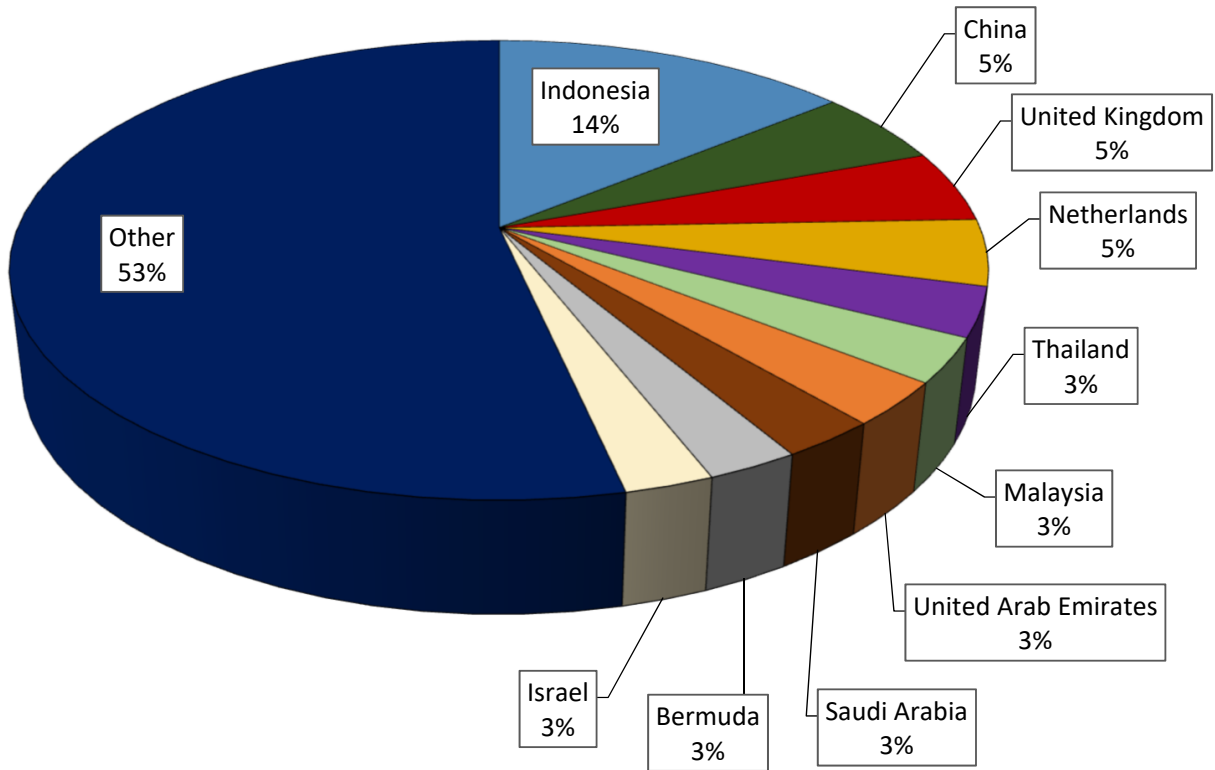
U.S. Containerized Waterborne Agricultural Exports Through New York/New Jersey, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Soybeans	284,648	19,243	22%	8%
Grocery items	241,425	32,888	19%	8%
Animal feed	121,739	11,461	9%	2%
Dairy products	87,271	8,376	7%	11%
Meat	66,865	5,966	5%	3%
Non-alcoholic beverages	49,228	4,841	4%	6%
Grain products, bread, flour	42,679	3,784	3%	4%
Candy, confections	35,123	5,046	3%	27%
Beer, ale	34,683	3,560	3%	8%
Vegetables	27,898	2,170	2%	1%
Other	301,452	29,546	23%	
Total	1,293,010	126,881	100%	4%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through New York/New Jersey, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through New York/New Jersey, 2017

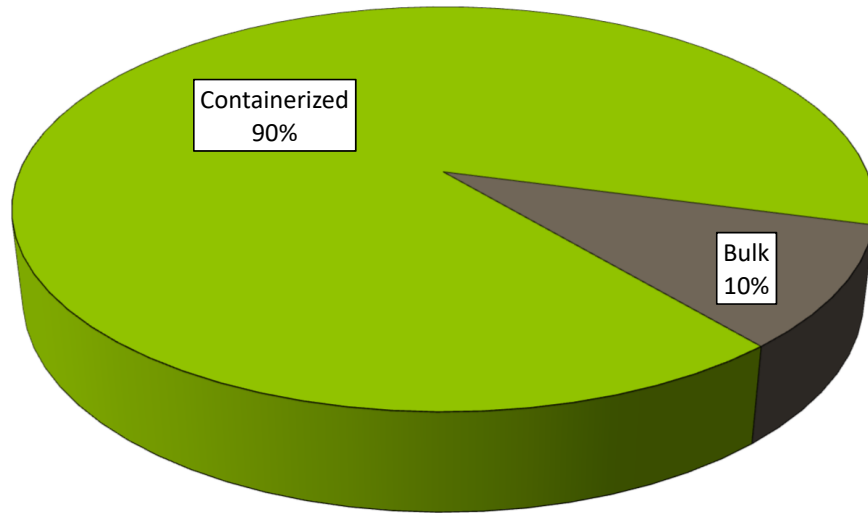
Shipping Line	Metric Tons	Share
Mediterranean Shipping	306,017	23%
CMA-CGM	124,551	9%
Zim Israeli Navigation	103,831	8%
Hapag Lloyd Line	102,131	8%
NYK Line	94,482	7%
Maersk	83,351	6%
Evergreen	79,278	6%
APL	38,599	3%
COSCO	37,584	3%
K Line	34,851	3%
Other	308,188	23%
Total	1,312,863	100%

Source: IHS Markit/PIERS

Imports

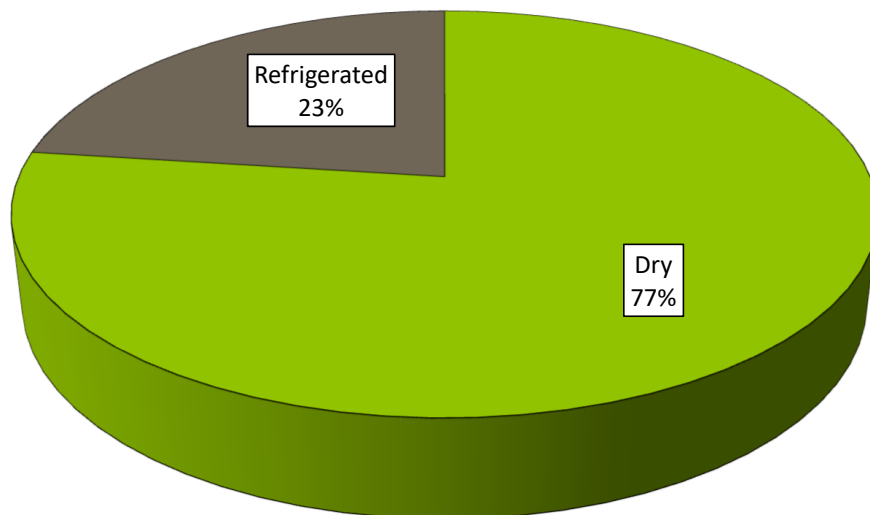
The Port of New York/New Jersey ranked 1st for U.S. waterborne agricultural imports in 2017 moving over 8.8 million metric tons of agricultural products. Approximately 90 percent of these commodities moved in containers. Non-alcoholic beverages, wine, and beer were the top three agricultural imports and accounted for 28 percent of the total. New York/New Jersey moved 32 percent of the total U.S. waterborne non-alcoholic beverage imports and 35 percent of beer imports. The port's top shipping lines included Mediterranean Shipping, Maersk, and Hapag Lloyd; the top origin countries were Italy, China, and France.

U.S. Waterborne Agricultural Imports Through New York/New Jersey, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through New York/New Jersey, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through New York/New Jersey, 2017

Commodity	Metric Tons	Share	U.S. Share
Non-alcoholic beverages	1,003,095	11%	32%
Wine	797,700	9%	22%
Beer, ale	715,274	8%	35%
Grocery items	553,010	6%	31%
Coffee	435,169	5%	18%
Vegetables	411,637	5%	26%
Rice	299,275	3%	27%
Candy, confections	264,064	3%	38%
Bitters, spirits, liquor	242,012	3%	38%
Shrimp, prawns	224,950	3%	34%
Other	3,883,637	44%	
Total	8,829,822	100%	19%

Source: IHS Markit/PIERS

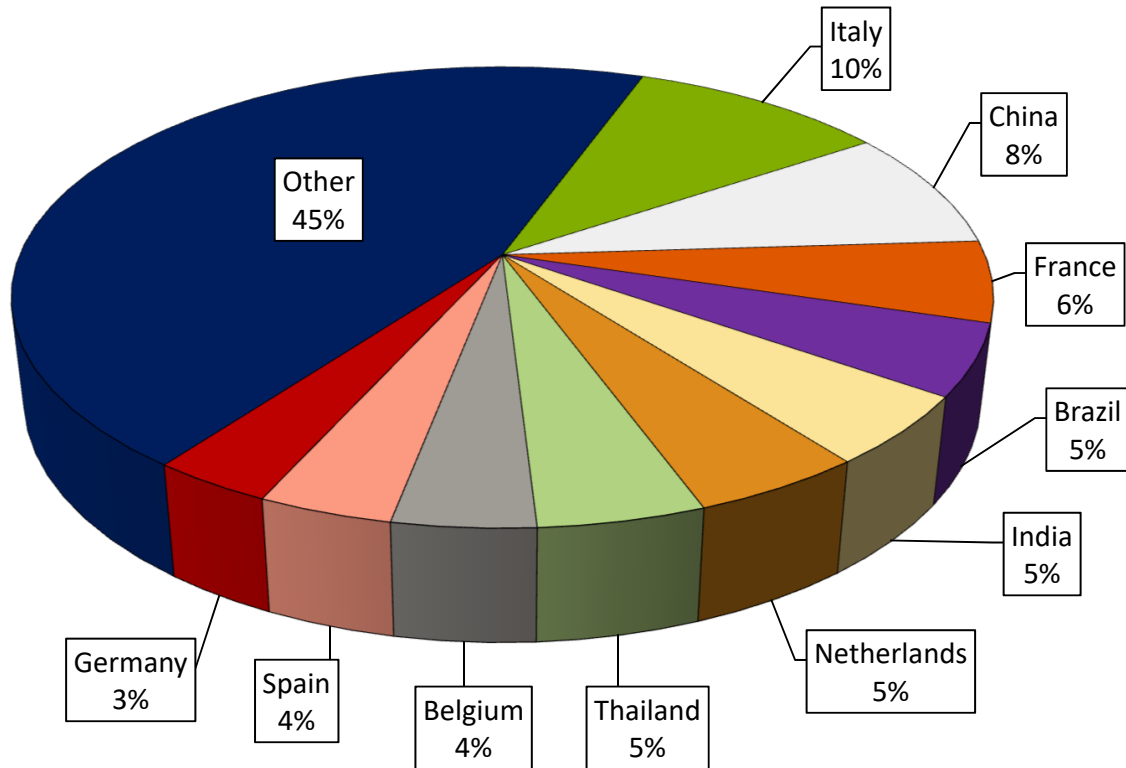
U.S. Containerized Waterborne Agricultural Imports Through New York/New Jersey, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Non-alcoholic beverages	841,249	59,913	11%	29%
Beer, ale	715,274	59,177	9%	35%
Wine	708,008	68,566	9%	35%
Grocery items	552,691	60,856	7%	33%
Vegetables	411,637	34,648	5%	28%
Coffee	378,968	23,913	5%	23%
Rice	299,275	23,078	4%	27%
Candy, confections	264,050	30,692	3%	39%
Bitters, spirits, liquor	242,008	23,736	3%	38%
Shrimp, prawns	224,950	22,696	3%	34%
Other	3,332,661	279,891	42%	
Total	7,970,770	687,167	100%	23%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through New York/New Jersey, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Imports Through New York/New Jersey, 2017

Shipping Line	Metric Tons	Share
Mediterranean Shpg	1,944,948	22%
Maersk	802,917	9%
Hapag Lloyd Line	799,570	9%
CMA-CGM	657,052	7%
OOCL	390,072	4%
Evergreen	388,769	4%
APL	364,236	4%
Hamburg Sud	344,321	4%
ZIM Israeli Navigation	310,934	4%
COSCO	273,827	3%
Other	2,553,177	29%
Total	8,829,822	100%

Source: IHS Markit/PIERS



Export/Import Profile

Kalama, WA

The Port of Kalama is located in southwest Washington State. The port’s industrial area has seven miles of riverfront property adjacent to the deep-draft navigation channel of the Columbia River. Kalama is an important regional port for bulk exports. The port handled more than 10 million metric tons of grain and animal feed exports in 2017, which represented nearly 7 percent of the national total.

Exports

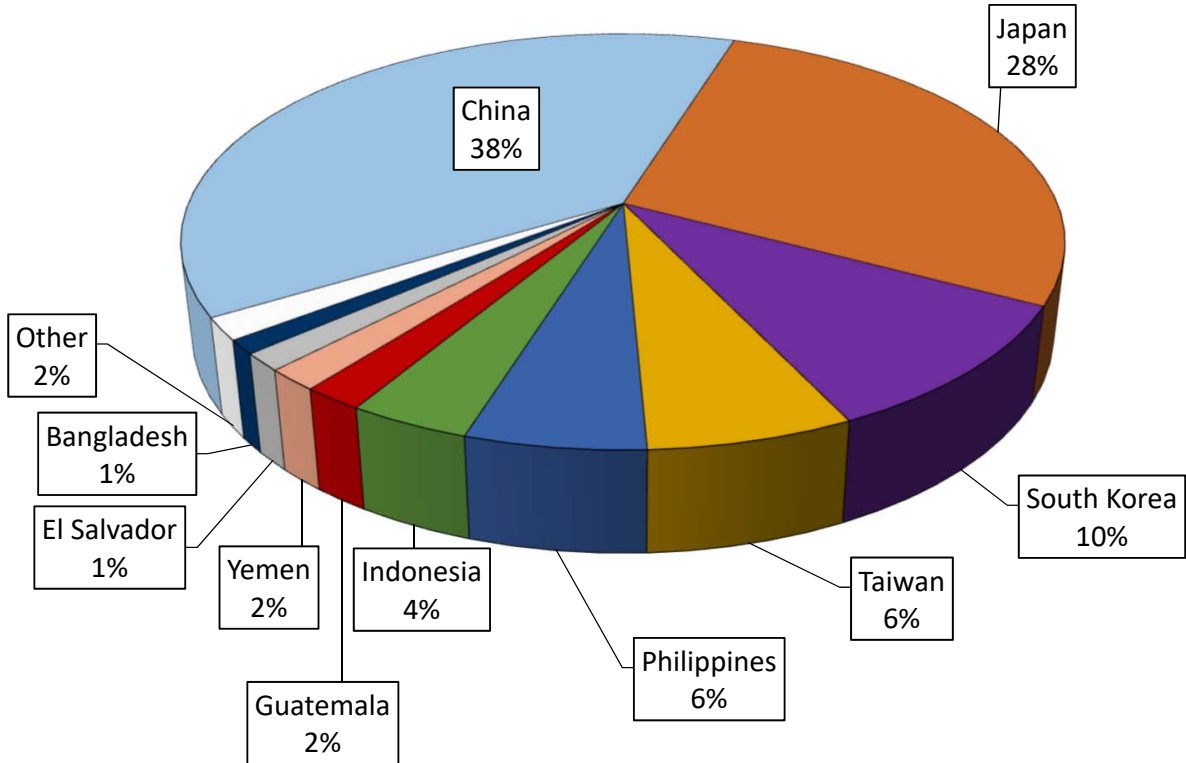
In 2017, the Port of Kalama ranked 2nd in the nation for total waterborne agricultural exports. Bulk grains, soybeans, and other grain products made up 99 percent of the more than 10 million metric tons of agricultural commodities exported through Kalama in 2017. The top destination markets for these products were China, Japan, South Korea, and Taiwan, which, together, represented 82 percent of the port’s agricultural exports.

U.S. Waterborne Agricultural Exports Through Kalama, WA, 2017

Commodity	Metric Tons	Share	U.S. Share
Bulk grains	4,089,431	40%	18%
Soybeans	3,218,740	32%	7%
Grain products, bread, flour	2,748,949	27%	7%
Fruit	58,064	1%	5%
Bulbs and seeds	10,496	0%	1%
Total	10,125,680	100%	7%

Source: IHS Markit/PIERS

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Kalama, WA, 2017



Source: IHS Markit/PIERS

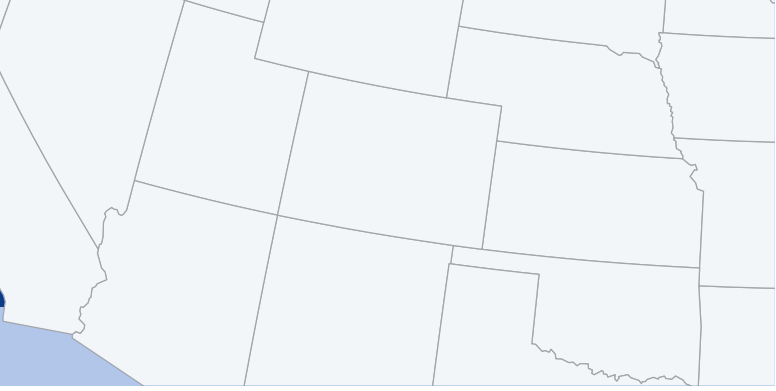
Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Kalama, WA, 2017

Shipping Line	Metric Tons	Share
Unknown Bulk Carriers	2,107,310	21%
Blue Water Shipping Co	1,960,823	19%
ADM Shpg Co	1,041,927	10%
Pan Ocean Shipping	1,020,618	10%
Oldendorff Carriers	588,800	6%
Bunge SA	317,114	3%
Hyundai Glovis	280,388	3%
General Steamship Corp Ltd	223,706	2%
K Line	219,601	2%
Glencore Grain Bv	198,072	2%
Other	2,167,322	21%
Total	10,125,680	100%

Source: IHS Markit/PIERS

Imports

No agricultural import cargo moved through the Port of Kalama in 2017.



Export/Import Profile

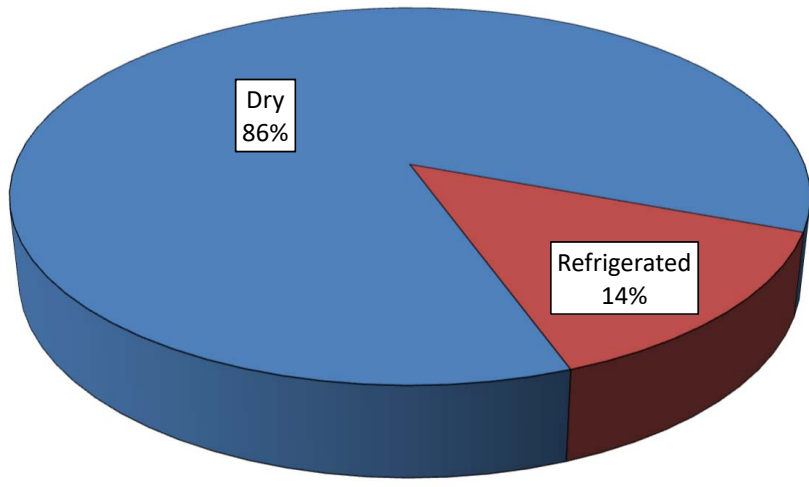
Los Angeles, CA

The Port of Los Angeles, is located on the San Pedro Bay of southern California about 20 miles from downtown Los Angeles. The port encompasses 43 miles of waterfront property with 26 passenger and cargo terminals. It is the busiest container port in the United States with a total cargo value of \$284 million in 2017. Its top export commodities include wastepaper, animal feed, and scrap metal while the top import commodities include furniture, auto parts, and apparel. Los Angeles moved nearly 9.3 million twenty-foot equivalent units in 2017, of which, almost 560,000 were filled with agricultural cargo.

Exports

In 2017, the Port of Los Angeles moved more than 6.6 million metric tons of agricultural cargo making it the 4th largest port in the nation for total waterborne agricultural exports, and 1st for containerized waterborne agricultural exports. The top commodities were animal feed, soybeans, and cotton, representing approximately 61 percent of the port's agricultural exports. About 47 percent of U.S. cotton exports, 35 percent of export animal hides and skins, 32 percent of orange exports, and 56 percent of lemon exports shipped through Los Angeles. Nearly all of the port's agricultural exports moved in containers. The top shipping lines included Evergreen, Mediterranean Shipping, and NYK Line. The top destination markets were China, Taiwan, and Japan.

U.S. Waterborne Agricultural Exports Through Los Angeles, CA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Los Angeles, CA, 2017

Commodity	Metric Tons	Share	U.S. Share
Animal feed	2,114,719	32%	19%
Soybeans	1,130,882	17%	2%
Cotton	807,264	12%	47%
Meat	441,773	7%	17%
Grain products, bread, flour	423,863	6%	1%
Grocery items	283,735	4%	9%
Hides and skins	246,729	4%	35%
Dairy products	140,534	2%	18%
Edible nuts	133,549	2%	10%
Oranges	114,272	2%	32%
Other	828,081	12%	
Total	6,665,401	100%	4%

Source: IHS Markit/PIERS

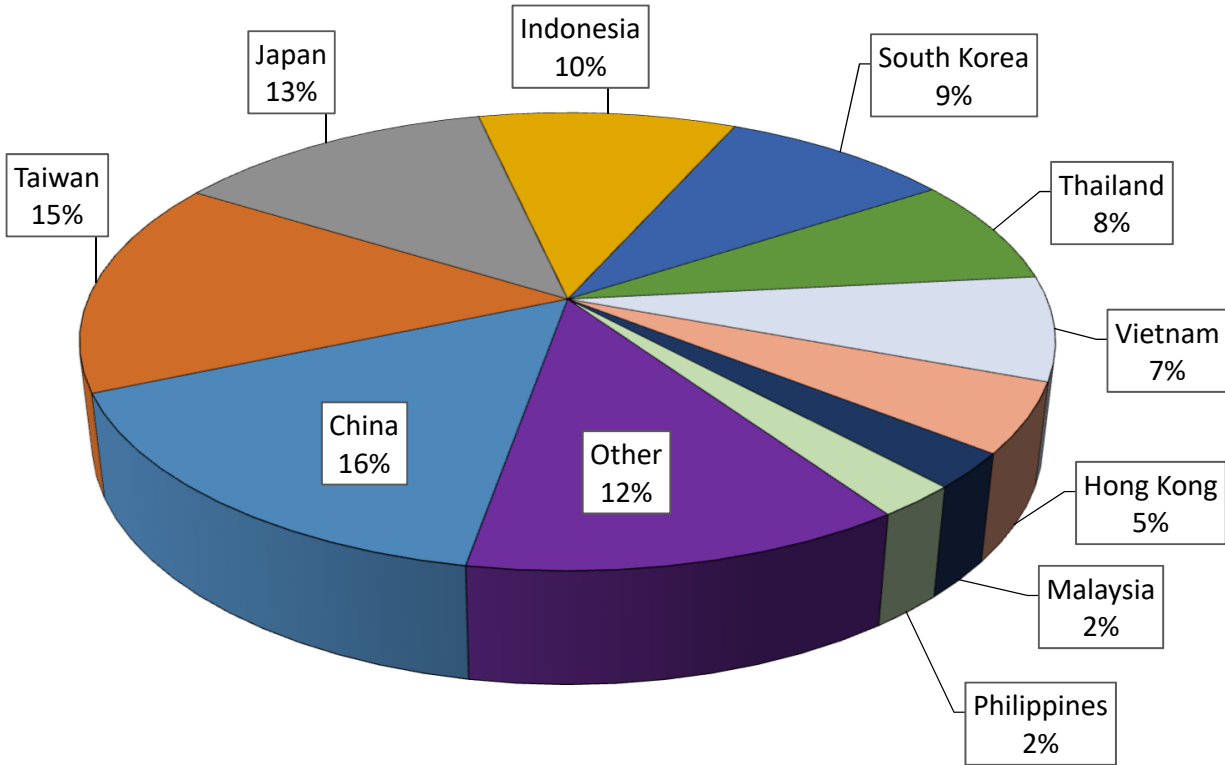
U.S. Containerized Waterborne Agricultural Exports Through Los Angeles, CA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Animal feed	2,112,983	173,445	32%	29%
Soybeans	1,128,095	81,564	17%	31%
Cotton	805,817	78,470	12%	47%
Meat	437,865	38,466	7%	17%
Grain products, bread, flour	423,825	28,682	6%	36%
Grocery items	282,839	33,087	4%	9%
Hides and skins	246,091	16,644	4%	35%
Dairy products	140,105	11,286	2%	18%
Edible nuts	132,504	12,723	2%	10%
Bulbs and seeds	113,581	8,243	2%	17%
Other	825,572	77,177	12%	
Total	6,649,278	559,787	100%	19%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Los Angeles, CA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Los Angeles, CA, 2017

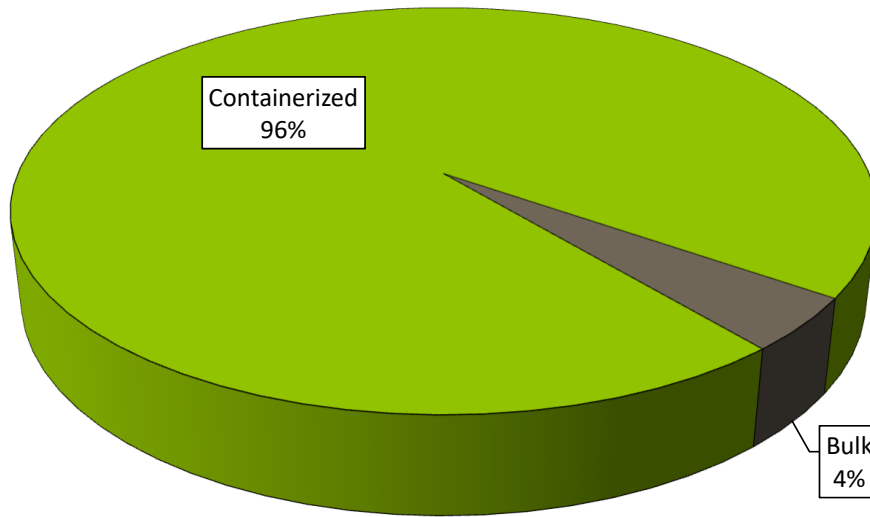
Shipping Line	Metric Tons	Share
Evergreen	939,329	14%
Mediterranean Shipping	668,183	10%
NYK Line	606,379	9%
Maersk	604,319	9%
CMA-CGM	572,271	9%
APL	516,843	8%
Yang Ming Marine	496,215	7%
MOL	454,313	7%
Hyundai Merchant Marine	440,376	7%
K Line	428,539	6%
Other	938,634	14%
Total	6,665,401	100%

Source: IHS Markit/PIERS

Imports

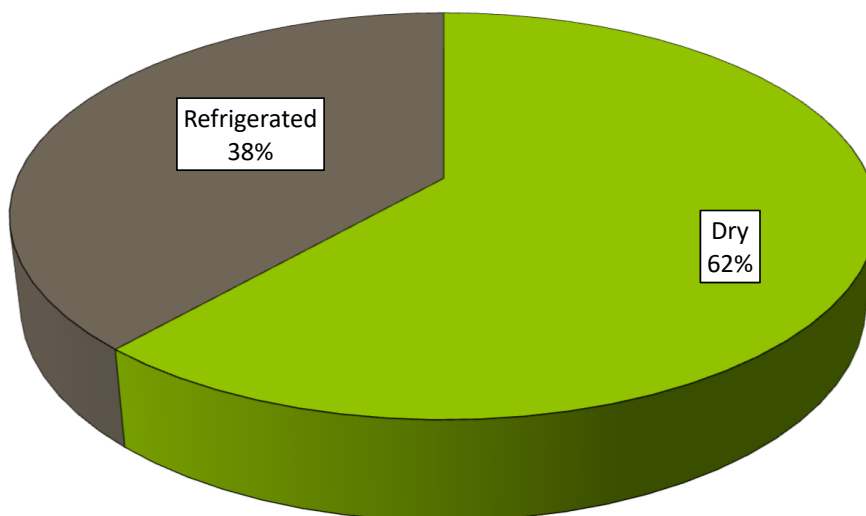
The Port of Los Angeles moved nearly 2.6 million metric tons of agricultural import cargo in 2017. Approximately 96 percent of these cargoes moved in containers. The top agricultural import was prepared grocery items representing about 10 percent of the port's agricultural imports. Los Angeles moved 26 percent of the total U.S. waterborne shrimp imports and 21 percent of total U.S. waterborne rice imports. The port's top shipping lines included Evergreen, APL, and NYK Line; the top origin countries were Thailand, China, and Chile.

U.S. Waterborne Agricultural Imports Through Los Angeles, CA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Los Angeles, CA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Los Angeles, CA, 2017

Commodity	Metric Tons	Share	U.S. Share
Grocery items	258,170	10%	15%
Fruit	235,560	9%	10%
Rice	231,187	9%	21%
Non-alcoholic beverages	230,172	9%	7%
Shrimp, prawns	171,233	7%	26%
Frozen fish	167,797	6%	16%
Canned pineapple	84,642	3%	18%
Herbs & spices	80,016	3%	15%
Candy, confections	76,520	3%	11%
Wine	65,431	3%	2%
Other	994,874	38%	
Total	2,595,601	100%	6%

Source: IHS Markit/PIERS

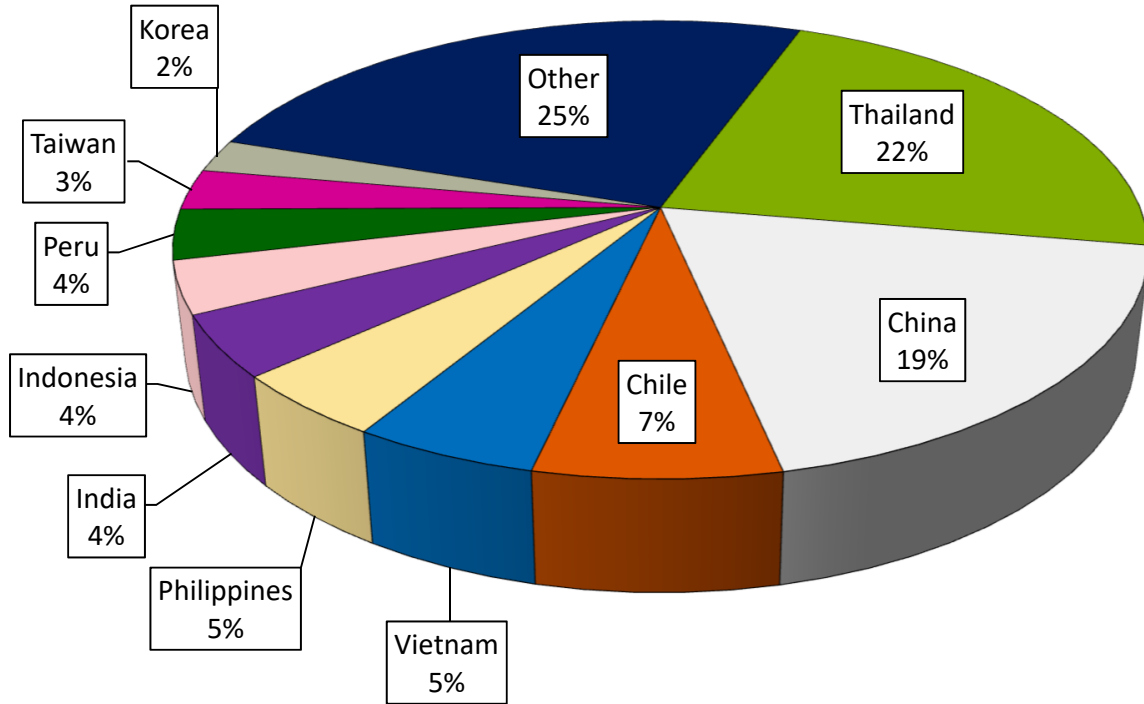
U.S. Containerized Waterborne Agricultural Imports Through Los Angeles, CA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Grocery items	258,167	27,899	10%	15%
Rice	231,187	14,775	9%	21%
Non-alcoholic beverages	230,172	17,512	9%	8%
Shrimp, prawns	171,233	18,204	7%	26%
Frozen fish	167,797	16,499	7%	16%
Fruit	162,120	15,779	7%	8%
Canned pineapple	84,642	5,547	3%	24%
Herbs & spices	80,016	7,080	3%	15%
Candy, confections	76,520	8,595	3%	11%
Wine	65,431	9,772	3%	3%
Other	957,696	96,151	39%	
Total	2,484,980	237,813	100%	7%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

**Top Origin Countries for U.S. Waterborne Agricultural Imports
Through Los Angeles, CA, 2017**



Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Imports
Through Los Angeles, CA, 2017**

Shipping Line	Metric Tons	Share
Evergreen	394,821	15%
APL	349,085	13%
NYK Line	271,176	10%
Hapag Lloyd Line	237,913	9%
Hyundai Merchant Marine	191,637	7%
OOCL	152,114	6%
Maersk	121,800	5%
MOL	120,971	5%
Mediterranean Shpg	119,761	5%
Yang Ming Marine	90,790	3%
Other	545,532	21%
Total	2,595,601	100%

Source: IHS Markit/PIERS



Export/Import Profile

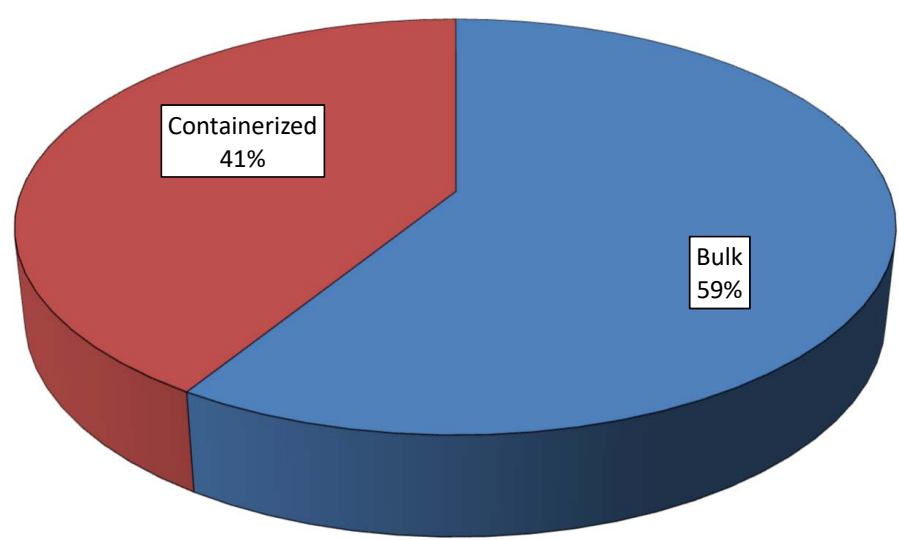
Tacoma, WA

The Port of Tacoma, WA, is located in the northwest region of the U.S. West Coast. In August 2015, the ports of Seattle and Tacoma, WA, formed the Northwest Seaport Alliance. The Alliance unified the two ports' marine cargo terminal investments, operations, planning and marketing to strengthen the Puget Sound gateway and attract more marine cargo to the region. Over 1,900 vessels called the port alliance terminals in 2017 moving more than 27.5 million metric tons of total cargo including more than 3.7 million twenty-foot equivalent units.

Exports

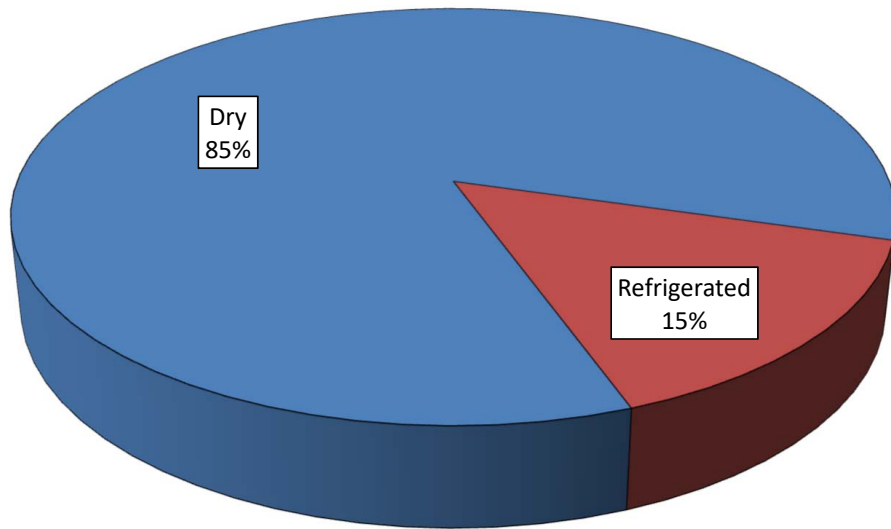
In 2017, the Port of Tacoma ranked 3rd in the nation for total waterborne agricultural exports and 4th for containerized waterborne agricultural exports. The port moved more than 7.4 million metric tons of agricultural export cargo in 2017. Approximately 59 percent of these products moved in bulk vessels. Grain products, soybeans, and animal feed accounted for about 80 percent of the port's agricultural exports. The top shipping lines were Blue Water Shipping Co. and Evergreen, which together moved approximately 62 percent of the port's agricultural export cargo. The top destination markets were China, Japan, South Korea, and Taiwan which accounted for more than 90 percent of agricultural exports through Tacoma.

U.S. Waterborne Agricultural Exports Through Tacoma, WA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Tacoma, WA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Tacoma, WA, 2017

Commodity	Metric Tons	Share	U.S. Share
Grain products, bread, flour	2,387,065	32%	6%
Soybeans	2,348,725	31%	5%
Animal feed	1,182,091	16%	11%
Vegetables	587,502	8%	29%
Fruit	231,964	3%	19%
Meat	151,676	2%	6%
Dairy products	90,221	1%	12%
Hides and skins	72,010	1%	10%
Grocery items	70,547	1%	2%
Frozen fish	51,574	1%	7%
Other	307,217	4%	
Total	7,480,590	100%	5%

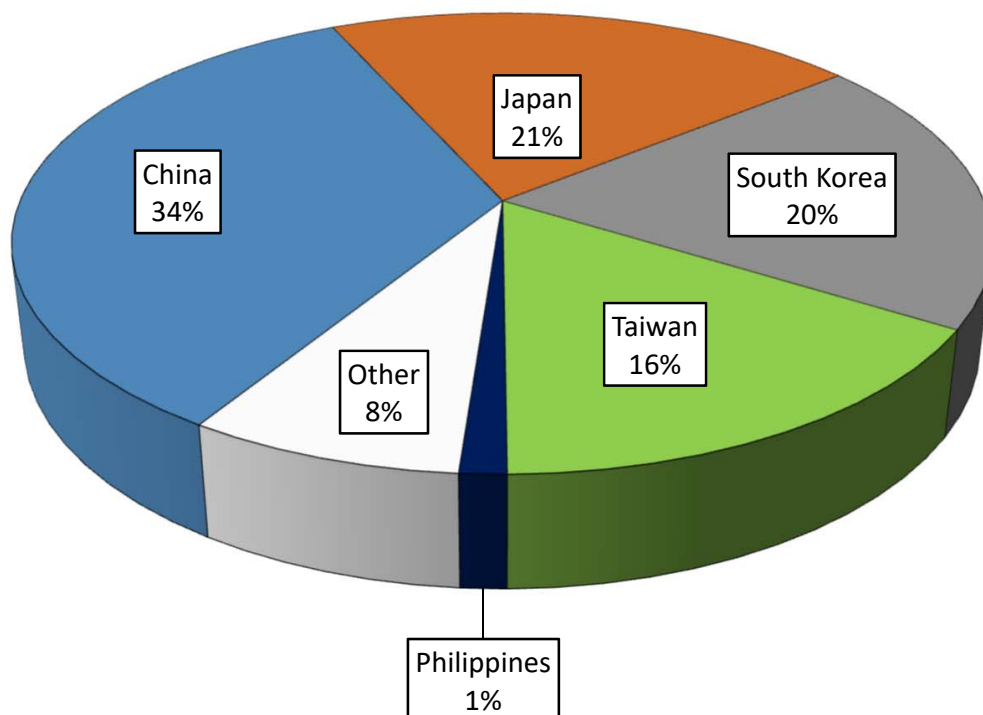
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Exports Through Tacoma, WA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Animal feed	1,179,412	97,309	38%	16%
Vegetables	585,448	49,100	19%	30%
Fruit	231,630	21,146	8%	25%
Soybeans	207,244	15,772	7%	6%
Meat	150,685	12,857	5%	6%
Grain products, bread, flour	132,862	9,420	4%	11%
Dairy products	90,219	7,008	3%	12%
Hides and skins	71,854	4,798	2%	10%
Grocery items	70,407	7,608	2%	2%
Frozen fish	51,419	4,636	2%	7%
Other	306,105	26,726	10%	
Total	3,077,284	256,381	100%	9%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Tacoma, WA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Tacoma, WA, 2017

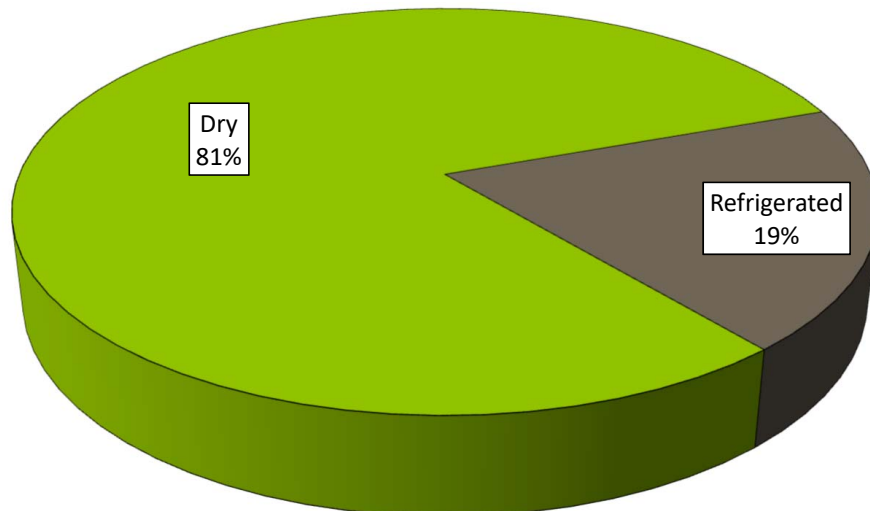
Shipping Line	Metric Tons	Share
Blue Water Shipping Co	3,657,031	49%
Evergreen	995,199	13%
K Line	710,293	9%
Unknown Bulk Carriers	419,845	6%
Yang Ming Marine	305,885	4%
K Line	272,574	4%
NYK Line	232,061	3%
ADM Shpg Co	124,258	2%
OOCL	111,933	1%
MOL	92,658	1%
Other	558,852	7%
Total	7,480,590	100%

Source: IHS Markit/PIERS

Imports

The Port of Tacoma moved just over 256,000 metric tons of agricultural import cargo in 2017; nearly all moved in containers. The top commodities were prepared grocery items, cassava flour, and non-alcoholic beverages. Evergreen, Hyundai Merchant Marine, and Hapag Lloyd were the top shipping lines by import volume. China, Thailand, and the Philippines were the top origin countries.

U.S. Waterborne Agricultural Imports Through Tacoma, WA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Tacoma, WA, 2017

Commodity	Metric Tons	Share	U.S. Share
Grocery items	26,683	10%	2%
Cassava flour, starch	23,989	9%	12%
Non-alcoholic beverages	20,512	8%	1%
Animal feed	20,399	8%	6%
Frozen fish	15,406	6%	1%
Rice	13,074	5%	1%
Canned pineapples	8,743	3%	2%
Soybeans	8,108	3%	1%
Vegetables	7,783	3%	0.5%
Beer, ale	7,475	3%	0.4%
Other	103,992	41%	
Total	256,165	100%	1%

Source: IHS Markit/PIERS

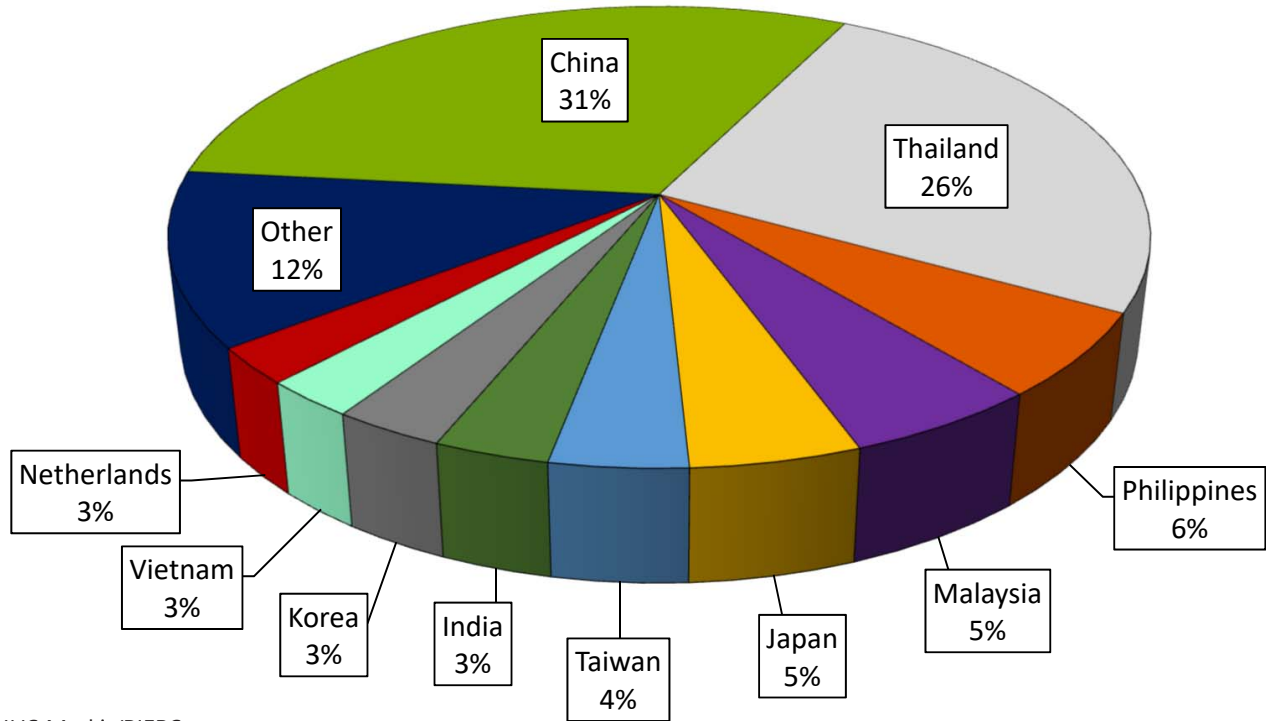
U.S. Containerized Waterborne Agricultural Imports Through Tacoma, WA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Grocery items	26,681	2,836	10%	2%
Cassava flour, starch	23,989	1,566	9%	12%
Non-alcoholic beverages	20,512	1,570	8%	1%
Animal feed	20,359	1,661	8%	7%
Frozen fish	15,406	1,381	6%	1%
Rice	13,074	868	5%	1%
Canned pineapple	8,743	470	3%	2%
Soybeans	8,108	568	3%	2%
Vegetables	7,783	654	3%	1%
Beer, ale	7,475	786	3%	0.4%
Other	103,861	10,803	41%	
Total	255,993	23,162	100%	1%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Tacoma, WA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Imports Through Tacoma, WA, 2017

Shipping Line	Metric Tons	Share
Evergreen	66,738	26%
Hyundai Merchant Marine	36,186	14%
Hapag Lloyd Line	33,997	13%
NYK Line	31,979	12%
Yang Ming Marine	20,501	8%
OOCL	18,545	7%
K Line	14,827	6%
MOL	11,869	5%
ZIM Israeli Navigation	5,597	2%
APL	5,363	2%
Other	10,562	4%
Total	256,165	100%

Source: IHS Markit/PIERS

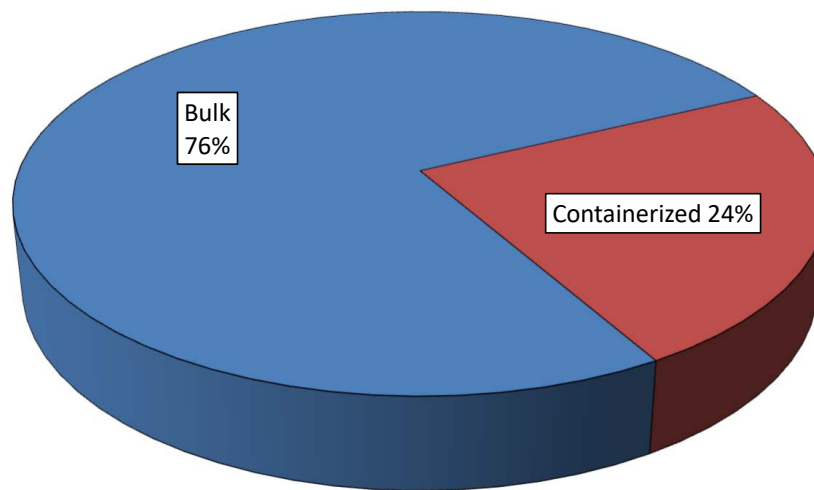


The Port of Houston, TX, is a 25-mile complex of public and private facilities located just a few hours' sailing time from the Gulf of Mexico. The Port consists of the Port of Houston Authority and the 150-plus private industrial companies along the Houston Ship Channel. Houston is the busiest container port in the Gulf of Mexico. Each year, more than 200 million tons of cargo move through the greater Port of Houston area.

Exports

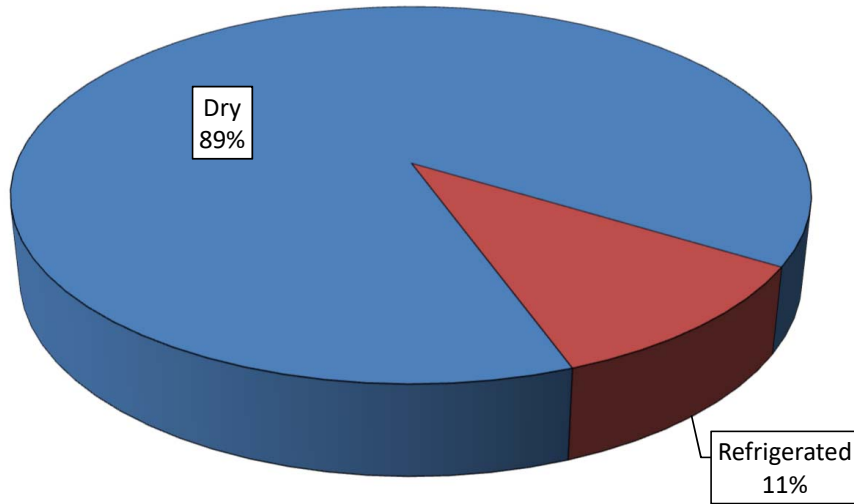
In 2017, the Port of Houston ranked 7th in the nation for total waterborne agricultural exports and 10th for containerized exports. More than 4.7 million metric tons of agricultural exports moved through the port in 2017, 24 percent of which were containerized. The top commodities included bulk grains, vegetable oils and shortenings, grease, and cotton. The Port of Houston moved more than 97 percent of the total U.S. waterborne exports of grease and tallow products, and about 36 percent of total U.S. waterborne exports of vegetable oils and shortenings in 2017. The top destination markets were Nigeria, China, and Mexico.

U.S. Waterborne Agricultural Exports Through Houston, TX, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Houston, TX, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Houston, TX, 2017

Commodity	Metric Tons	Share	U.S. Share
Bulk grains	2,966,953	62%	13%
Vegetable oils	318,504	7%	36%
Tallow, grease	188,473	4%	97%
Cotton	179,357	4%	11%
Meat	176,343	4%	7%
Poultry	161,389	3%	7%
Vegetables	124,743	3%	6%
Corn oil	82,787	2%	19%
Rice	65,833	1%	2%
Non-alcoholic beverages	59,405	1%	6%
Other	433,825	9%	
Total	4,757,613	100%	3%

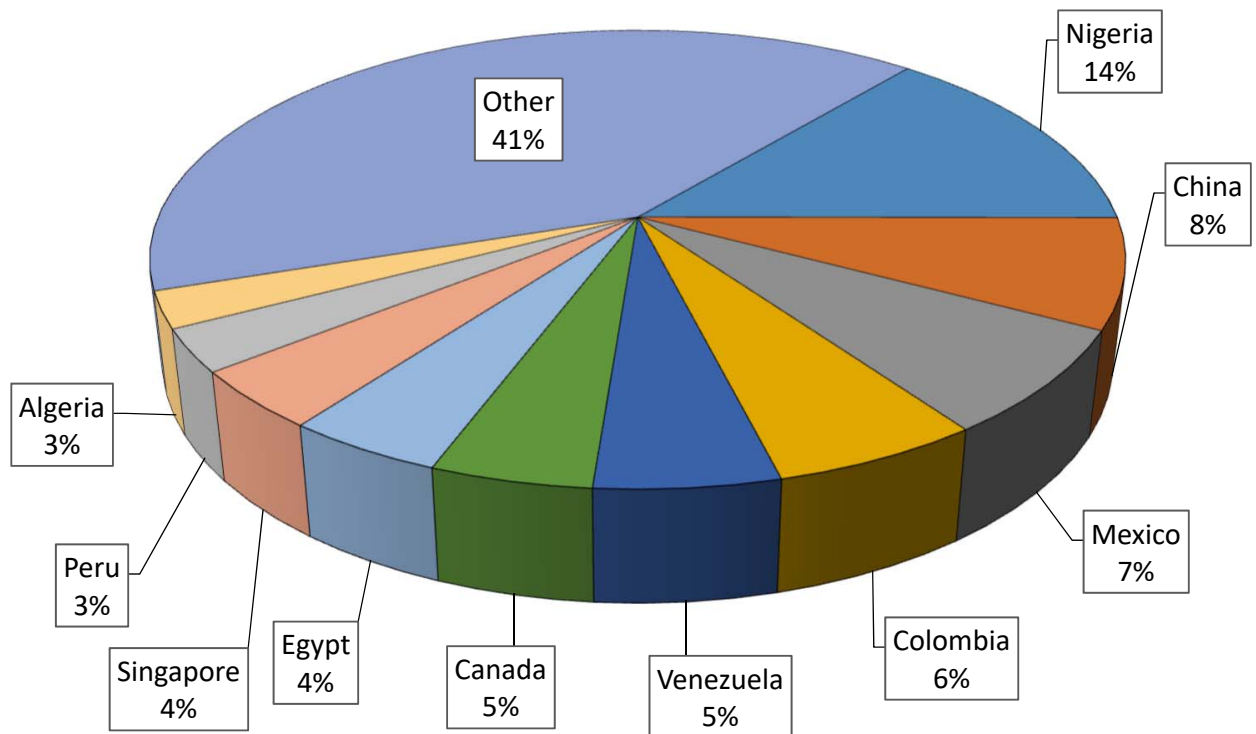
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Exports Through Houston, TX, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Cotton	179,219	17,743	16%	11%
Meat	167,375	12,783	15%	6%
Poultry	161,169	12,161	14%	7%
Vegetables	117,303	7,380	10%	6%
Rice	65,690	3,837	6%	11%
Vegetable oils	65,316	4,373	6%	37%
Grocery items	54,935	6,359	5%	2%
Edible nuts	45,718	4,628	4%	3%
Shrimp, Prawns	35,390	2,998	3%	74%
Soybeans	25,400	1,963	2%	1%
Other	213,502	19,376	19%	
Total	1,131,017	93,601	100%	3%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Houston, TX, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Houston, TX, 2017

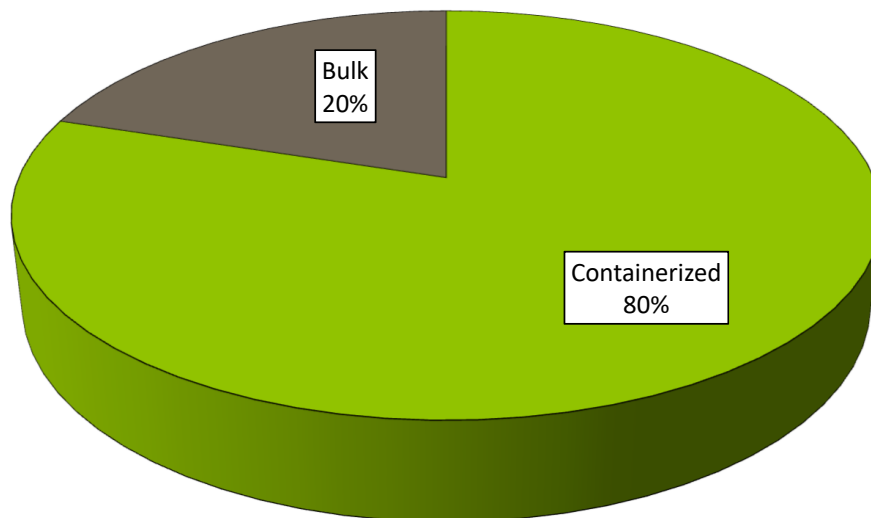
Shipping Line	Metric Tons	Share
Unknown Bulk Carriers	952,706	20%
Cargill Intl	549,842	12%
BP Shipping Ltd	314,361	7%
Southport Agencies Inc	277,831	6%
Mediterranean Shipping	238,398	5%
CMA-CGM	182,900	4%
Western Bulk Pte Ltd	151,708	3%
American Eagle Tankers Inc Ltd	136,799	3%
Thorco Shipping	107,102	2%
Hapag Lloyd Line	92,276	2%
Other	1,753,691	37%
Total	4,757,613	100%

Source: IHS Markit/PIERS

Imports

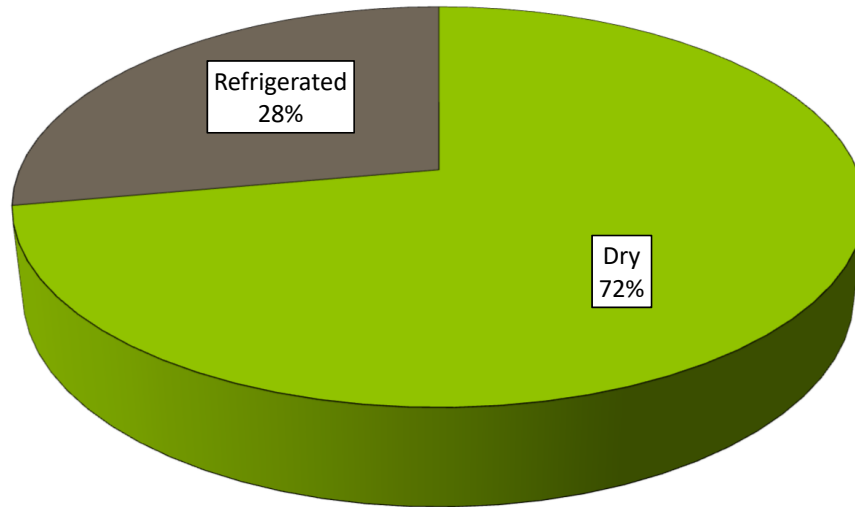
In 2017, the Port of Houston ranked 7th in the nation for total waterborne agricultural imports handling more than 2.3 million metric tons. Approximately 80 percent of the agricultural imports moved through the port were containerized. The top commodities included beer, guar gum, and non-alcoholic beverages. The top origin countries were India, Netherlands, and China. The top three carriers were Mediterranean Shipping, Maersk, and Seaboard Marine. Together these carriers held 44 percent of the market share for agricultural imports through Houston in 2017.

U.S. Waterborne Agricultural Imports Through Houston, TX, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Houston, TX, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Houston, TX, 2017

Commodity	Metric Tons	Share	U.S. Share
Beer, ale	239,292	10%	12%
Guar gum	192,180	8%	79%
Non-alcoholic beverages	147,969	6%	5%
Molasses, treacle	145,451	6%	21%
Coffee	127,987	5%	5%
Bananas	119,678	5%	2%
Wine	110,477	5%	3%
Vegetables	81,122	3%	5%
Pineapple	77,701	3%	7%
Grocery items	72,663	3%	4%
Other	1,026,664	44%	
Total	2,341,184	100%	5%

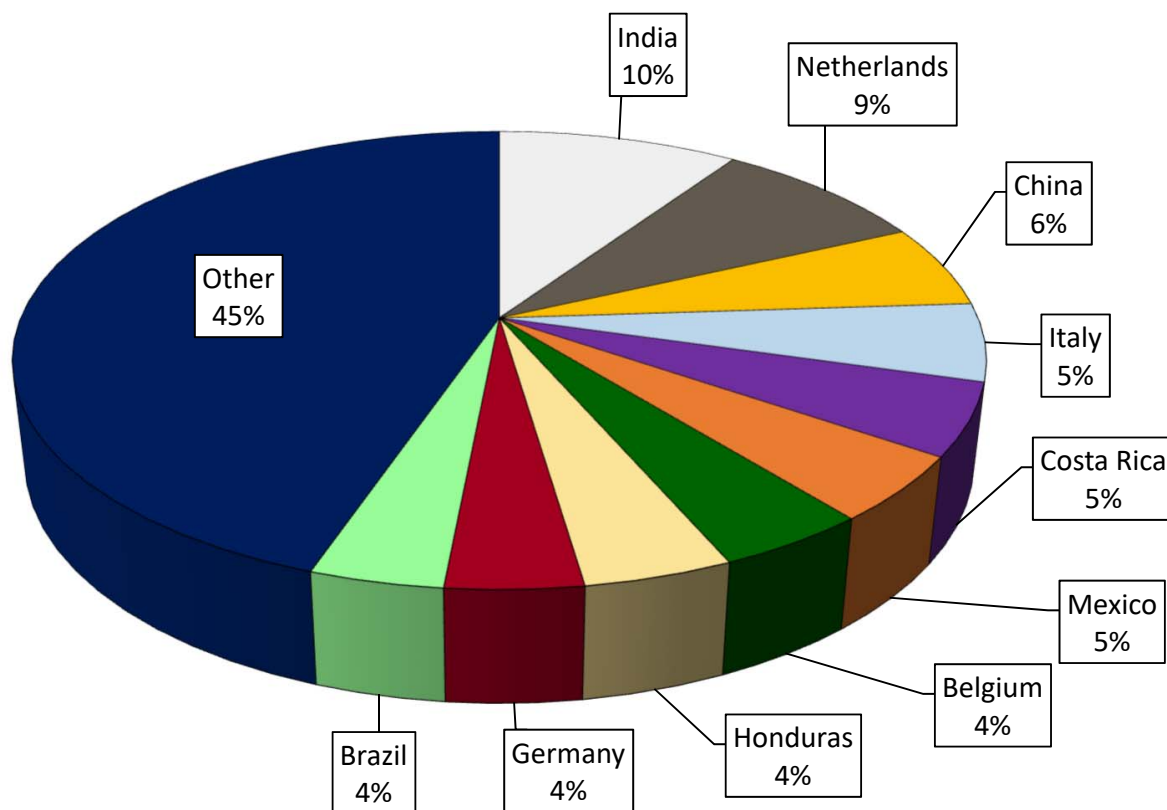
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Imports Through Houston, TX, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Beer, ale	239,260	19,694	13%	12%
Guar gum	192,180	11,709	10%	79%
Non-alcoholic beverages	147,969	12,575	8%	5%
Bananas	119,678	10,779	6%	3%
Coffee	115,916	6,566	6%	7%
Wine	95,146	9,490	5%	5%
Vegetables	79,487	7,419	4%	5%
Pineapple	77,701	6,713	4%	7%
Grocery items	72,030	7,252	4%	4%
Frozen fish	59,572	5,354	3%	6%
Other	671,030	56,684	36%	
Total	1,869,969	154,236	100%	5%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Houston, TX, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Imports Through Houston, 2017

Shipping Line	Metric Tons	Share
Mediterranean Shpg	519,256	22%
Maersk	312,617	13%
Seaboard Marine	209,972	9%
Hagag Lloyd Line	179,774	8%
Naviera InterAmericana Nav	157,174	7%
CMA-CGM	156,479	7%
Sealand	82,498	4%
Unknown bulk carriers	75,900	3%
Team Tankers International LTD	70,672	3%
COSCO	64,248	3%
Other	512,593	22%
Total	2,341,184	100%

Source: IHS Markit/PIERS



Export/Import Profile

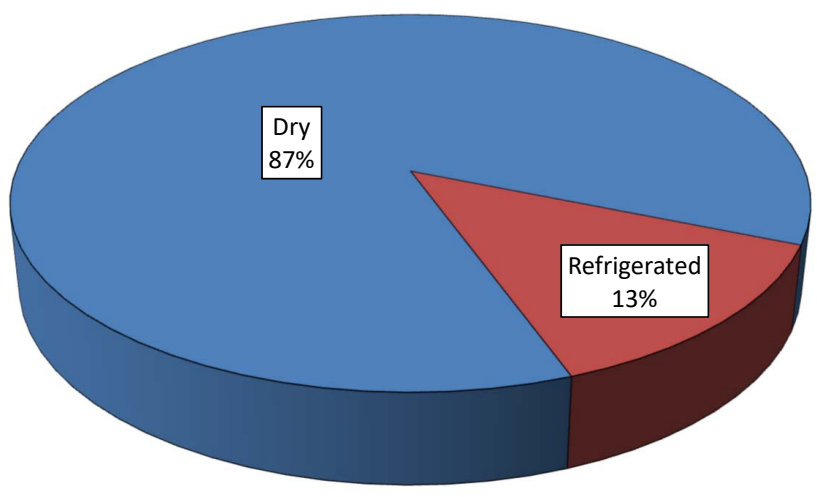
Long Beach, CA

The Port of Long Beach is located on the southern California coastline. When combined with its sister port, Los Angeles, the two ports form the busiest container port complex in the country. Each year Long Beach handles nearly 2,000 vessel calls with more than 82.3 million metric tons of cargo including more than 6.8 million twenty-foot equivalent units. The port moves a wide variety of cargo including petroleum products, electronics, plastics, furniture, clothing, chemicals, waste paper, and food products. The port stands as one of the major gateways for Asian markets.

Exports

In 2017, The Port of Long Beach ranked 9th in the nation for total waterborne agricultural exports, and 2nd for containerized waterborne agricultural exports. The port moved nearly 4.6 million metric tons of agricultural exports—over 98 percent of these cargoes moved in containers. The top commodities were animal feed and soybeans, representing approximately 50 percent of the port’s agricultural exports. The top shipping lines were Mediterranean Shipping, OOCL, and Maersk; the top destination markets were China, Indonesia, and South Korea.

U.S. Waterborne Agricultural Exports Through Long Beach, CA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Long Beach, CA, 2017

Commodity	Metric Tons	Share	U.S. Share
Animal feed	1,606,649	35%	15%
Soybeans	694,416	15%	1%
Meat	300,846	7%	11%
Cotton	262,941	6%	15%
Grocery items	256,056	6%	8%
Grain products, bread, flour	248,639	5%	1%
Hides and skins	189,832	4%	27%
Non-alcoholic beverages	135,843	3%	13%
Edible nuts	123,153	3%	9%
Dairy products	95,864	2%	12%
Other	650,025	14%	
Total	4,564,265	100%	3%

Source: IHS Markit/PIERS

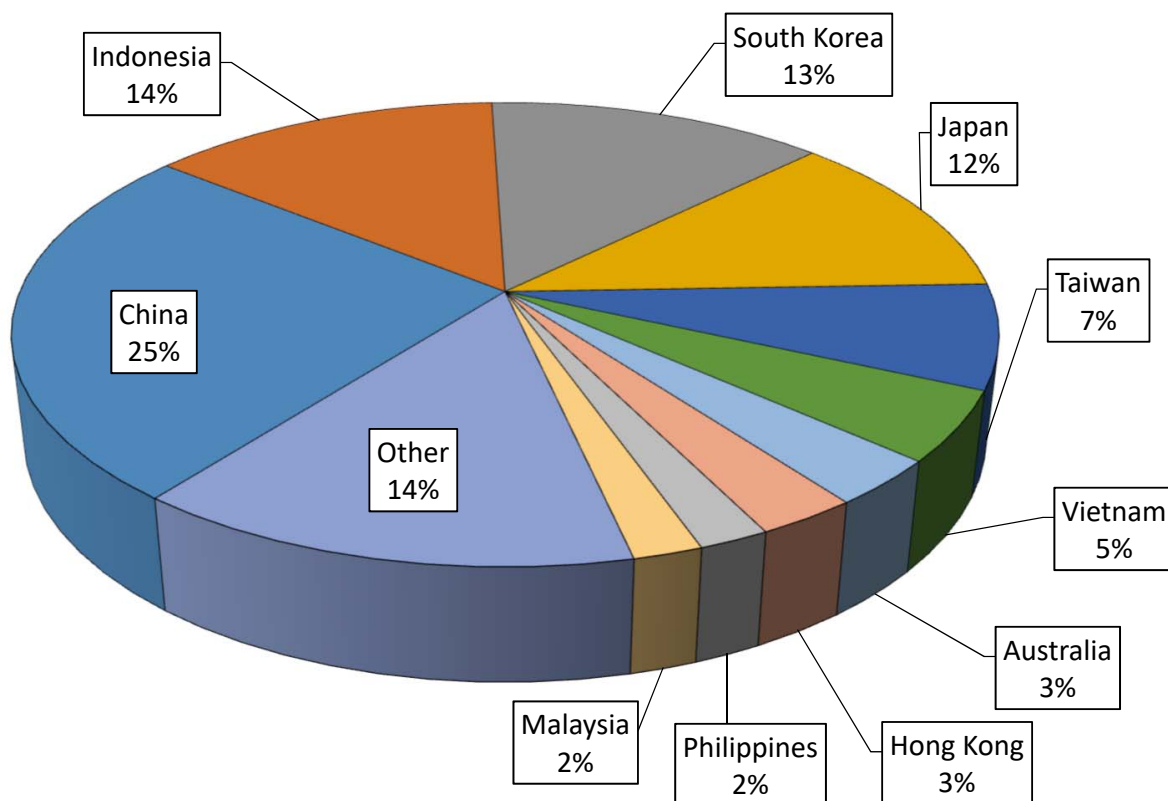
U.S. Containerized Waterborne Agricultural Exports Through Long Beach, CA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Animal feed	1,605,502	133,067	36%	22%
Soybeans	692,970	49,262	15%	19%
Meat	299,228	25,934	7%	11%
Cotton	261,145	25,545	6%	15%
Grocery items	255,269	27,649	6%	8%
Grain products, bread, flour	248,350	17,543	6%	21%
Hides and skins	189,180	12,438	4%	27%
Edible nuts	122,330	11,801	3%	9%
Dairy products	95,553	7,389	2%	12%
Bulbs and seeds	80,287	5,709	2%	12%
Other	638,522	59,218	14%	
Total	4,488,337	375,555	100%	13%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Long Beach, CA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Long Beach, CA, 2017

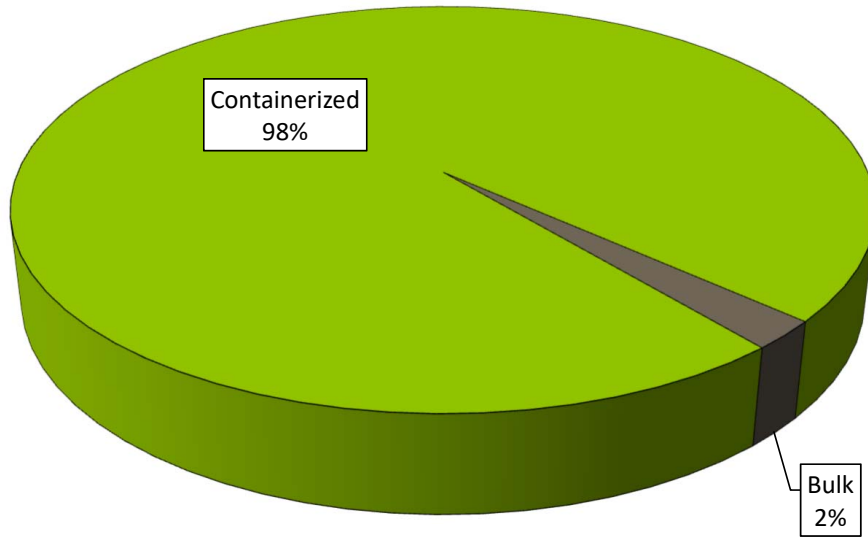
Shipping Line	Metric Tons	Share
Mediterranean Shipping	990,021	22%
OOCL	570,049	12%
Maersk	467,372	10%
COSCO	356,125	8%
Hyundai Merchant Marine	329,181	7%
CMA-CGM	320,284	7%
K Line	264,052	6%
MOL	243,999	5%
SM Lines	195,070	4%
Yang Ming Marine	136,725	3%
Other	691,386	15%
Total	4,564,265	100%

Source: IHS Markit/PIERS

Imports

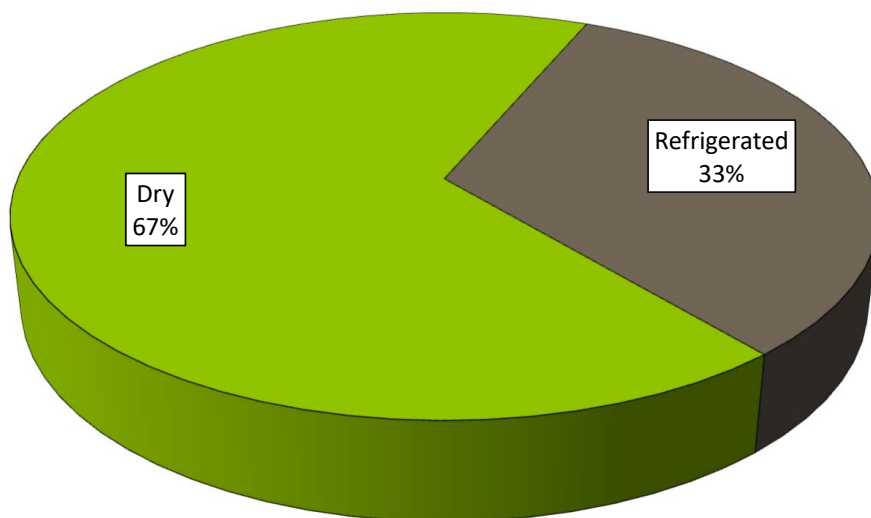
The Port of Long Beach moved over 2.3 million metric tons of agricultural import cargo in 2017—approximately 98 percent of these cargoes moved in containers. Non-alcoholic beverages and wine were the top agricultural imports representing about 23 percent of agricultural imports through Long Beach. The port's top shipping lines included Mediterranean Shipping, Hamburg Sud, and ANL Container Line; the top origin countries were China, New Zealand, and Chile.

U.S. Waterborne Agricultural Imports Through Long Beach, CA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Long Beach, CA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Long Beach, CA, 2017

Commodity	Metric Tons	Share	U.S. Share
Non-alcoholic beverages	382,267	16%	12%
Wine	169,265	7%	5%
Fruit	160,749	7%	7%
Beer, ale	155,858	7%	8%
Grocery items	150,871	6%	9%
Meat	135,706	6%	13%
Frozen fish	92,683	4%	9%
Canned fish	84,445	4%	24%
Vegetables	79,995	3%	5%
Herbs & spices	70,995	3%	13%
Other	901,650	38%	
Total	2,384,484	100%	5%

Source: IHS Markit/PIERS

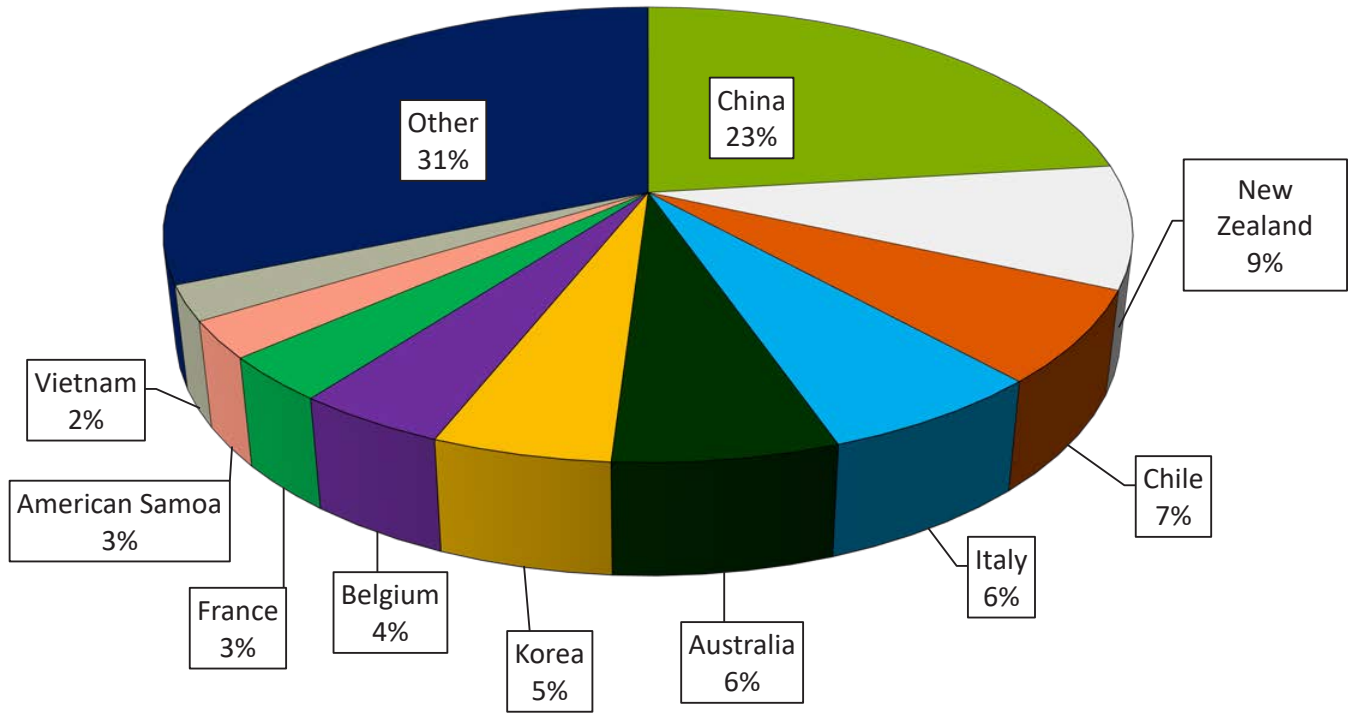
U.S. Containerized Waterborne Agricultural Imports Through Long Beach, CA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Non-alcoholic beverages	382,267	27,092	16%	13%
Fruit	160,749	16,074	7%	8%
Beer, ale	155,858	14,601	7%	8%
Grocery items	150,871	18,674	6%	9%
Meat	135,676	8,964	6%	13%
Wine	114,632	13,082	5%	6%
Frozen fish	92,668	9,175	4%	9%
Canned fish	84,445	5,374	4%	29%
Vegetables	79,995	9,345	3%	5%
Herbs & spices	70,995	6,119	3%	13%
Other	901,648	87,483	39%	
Total	2,329,804	215,982	100%	7%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

**Top Origin Countries for U.S. Waterborne Agricultural Imports
Through Long Beach, CA, 2017**



Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Imports
Through Long Beach, CA, 2017**

Shipping Line	Metric Tons	Share
Mediterranean Shpg	858,980	36%
Hamburg Sud	223,229	9%
ANL Container Line	183,845	8%
OOCL	160,926	7%
Hapag Lloyd Line	128,737	5%
Hyundai Merchant Marine	99,602	4%
COSCO	96,306	4%
Maersk	96,024	4%
Pacific Intl Line (PTE) Ltd	63,782	3%
Polynesia Lines Ltd	63,016	3%
Other	410,037	17%
Total	2,384,484	100%

Source: IHS Markit/PIERS



Export/Import Profile

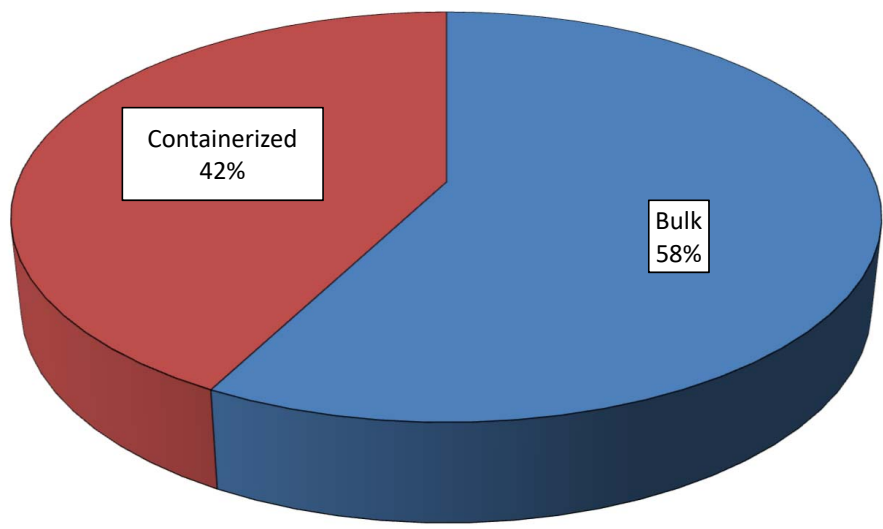
Seattle, WA

The Port of Seattle, WA, is located in the northwest region of the U.S. West Coast. In August 2015, the ports of Seattle and Tacoma, WA, formed the Northwest Seaport Alliance. The Alliance unified the two ports' marine cargo terminal investments, operations, planning and marketing to strengthen the Puget Sound Gateway and attract more marine cargo to the region. Over 1,900 vessels called the port alliance terminals in 2017 moving more than 27.5 million metric tons of total cargo including more than 3.7 million twenty-foot equivalent units.

Exports

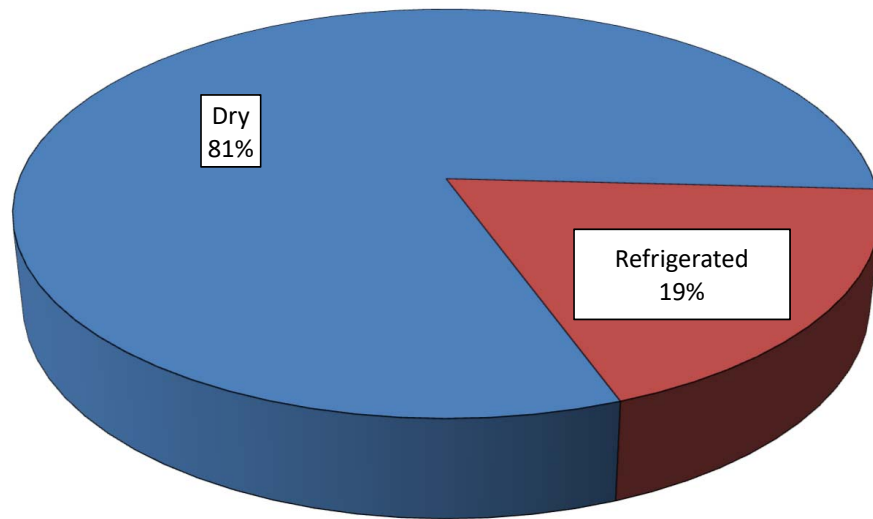
In 2017, the Port of Seattle ranked 5th in the nation for total waterborne agricultural exports and 7th for containerized waterborne agricultural exports. The port moved more than 5.6 million metric tons of waterborne agricultural export cargo in 2017. Approximately 58 percent of these products moved in bulk vessels. Soybeans and grain products, together, represented approximately 59 percent of the port's agricultural exports. Blue Water Shipping Co. handled more than half of agricultural exports from Seattle in 2017. The top destination markets were China, Japan, and South Korea.

U.S. Waterborne Agricultural Exports Through Seattle, WA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Seattle, WA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Seattle, WA, 2017

Commodity	Metric Tons	Share	U.S. Share
Soybeans	1,979,664	35%	4%
Grain products, bread, flour	1,342,301	24%	3%
Animal feed	821,474	14%	8%
Vegetables	642,278	11%	32%
Fruit	199,709	4%	16%
Frozen fish	143,900	3%	18%
Meat	106,218	2%	4%
Dairy products	91,078	2%	12%
Grocery items	65,822	1%	2%
Bulbs and seeds	61,282	1%	8%
Other	216,332	4%	
Total	5,670,057	100%	4%

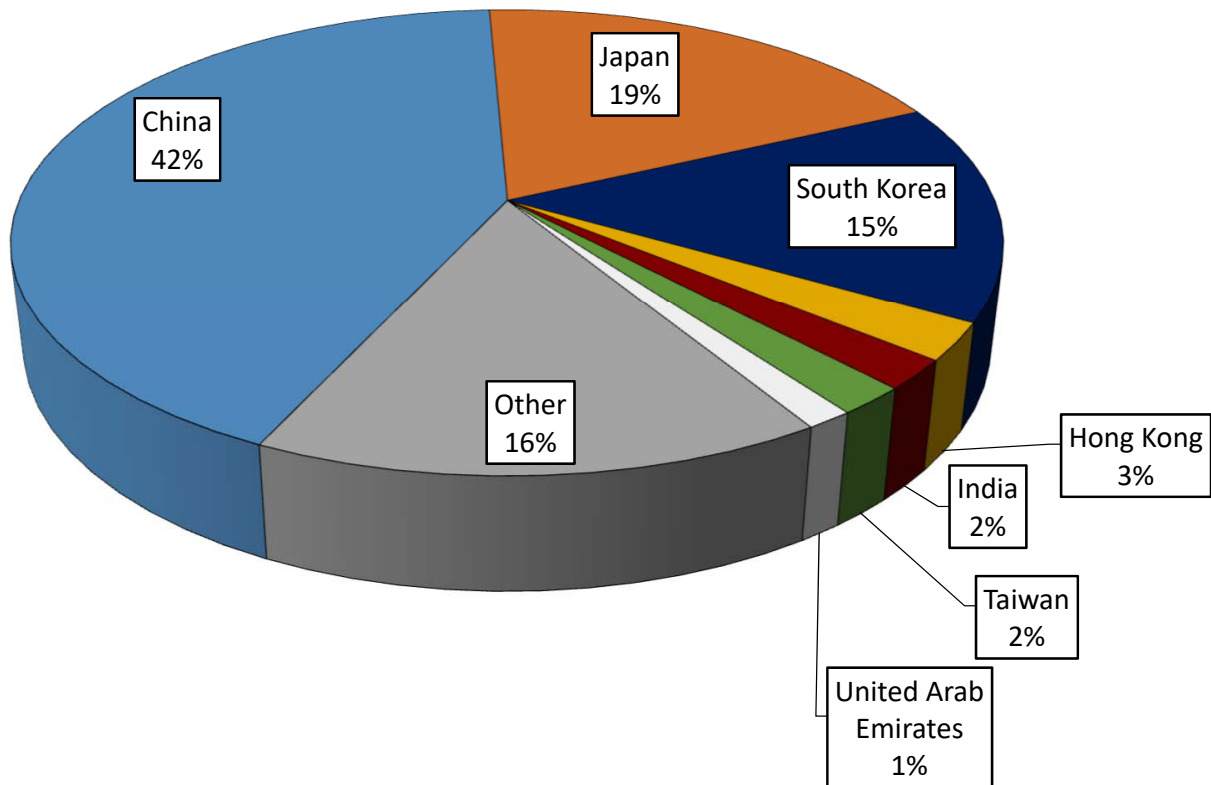
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Exports Through Seattle, WA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Animal feed	820,175	67,659	34%	11%
Vegetables	641,034	42,454	27%	33%
Fruit	199,081	17,935	8%	21%
Frozen fish	143,661	12,095	6%	19%
Meat	105,806	8,881	4%	4%
Dairy products	90,915	6,775	4%	12%
Grocery items	65,759	6,514	3%	2%
Bulbs and seeds	60,932	4,686	3%	9%
Soybeans	30,802	1,869	1%	1%
Bulk grains	30,206	1,644	1%	14%
Other	209,862	16,795	9%	
Total	2,398,233	187,308	100%	7%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Seattle, WA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Seattle, WA, 2017

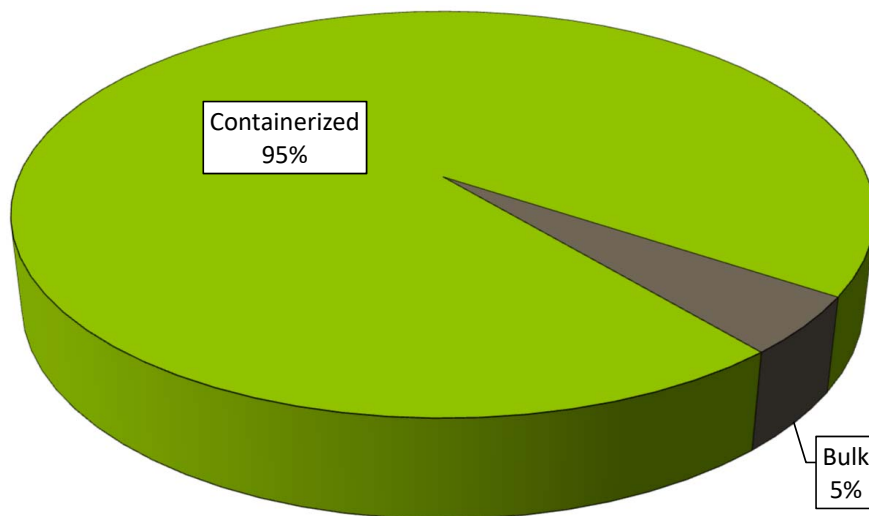
Shipping Line	Metric Tons	Share
Blue Water Shipping Co	3,011,476	53%
Maersk	477,889	8%
Mediterranean Shipping	361,468	6%
COSCO	283,585	5%
APL	222,500	4%
CMA-CGM	178,117	3%
Hamburg Sud	164,944	3%
Hapag Lloyd Line	145,367	3%
OOCL	141,211	2%
Unknown Bulk Carriers	136,412	2%
Other	547,090	10%
Total	5,670,057	100%

Source: IHS Markit/PIERS

Imports

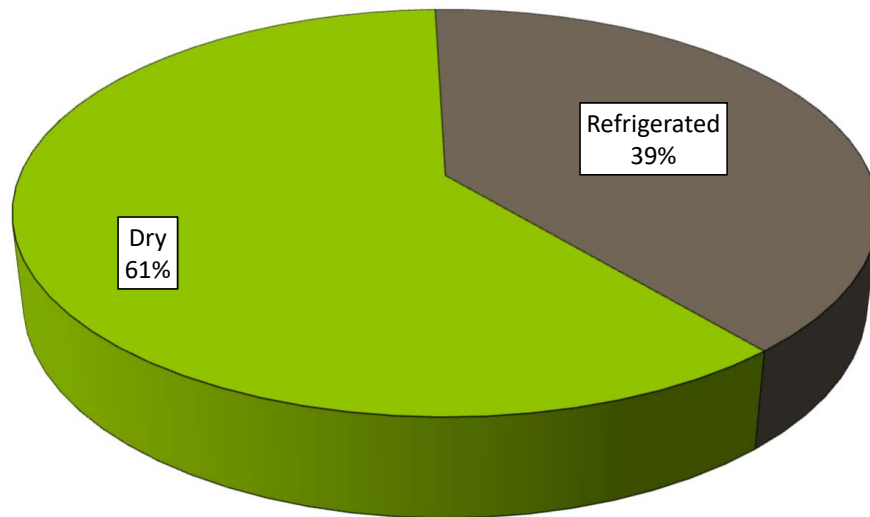
The Port of Seattle moved more than 784,000 metric tons of agricultural import cargo in 2017. Approximately 95 percent of these cargoes moved in containers. Nearly 40 percent of the port's agricultural imports required refrigeration. The top agricultural imports were coffee, bananas, and non-alcoholic beverages. The port's top shipping lines for agricultural imports included Mediterranean Shipping, Hapag Lloyd Line, and Hamburg Sud. The top origin countries were China, Guatemala, and Italy.

U.S. Waterborne Agricultural Imports Through Seattle, WA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Seattle, WA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Seattle, WA, 2017

Commodity	Metric Tons	Share	U.S. Share
Coffee	90,776	12%	4%
Bananas	84,963	11%	2%
Non-alcoholic beverages	69,585	9%	2%
Fruit	44,433	6%	2%
Wine	40,849	5%	1%
Meat	37,400	5%	4%
Molasses, treacle	36,079	5%	5%
Soybeans	32,482	4%	6%
Frozen fish	30,309	4%	3%
Sugar	28,393	4%	1%
Other	289,126	37%	
Total	784,395	100%	2%

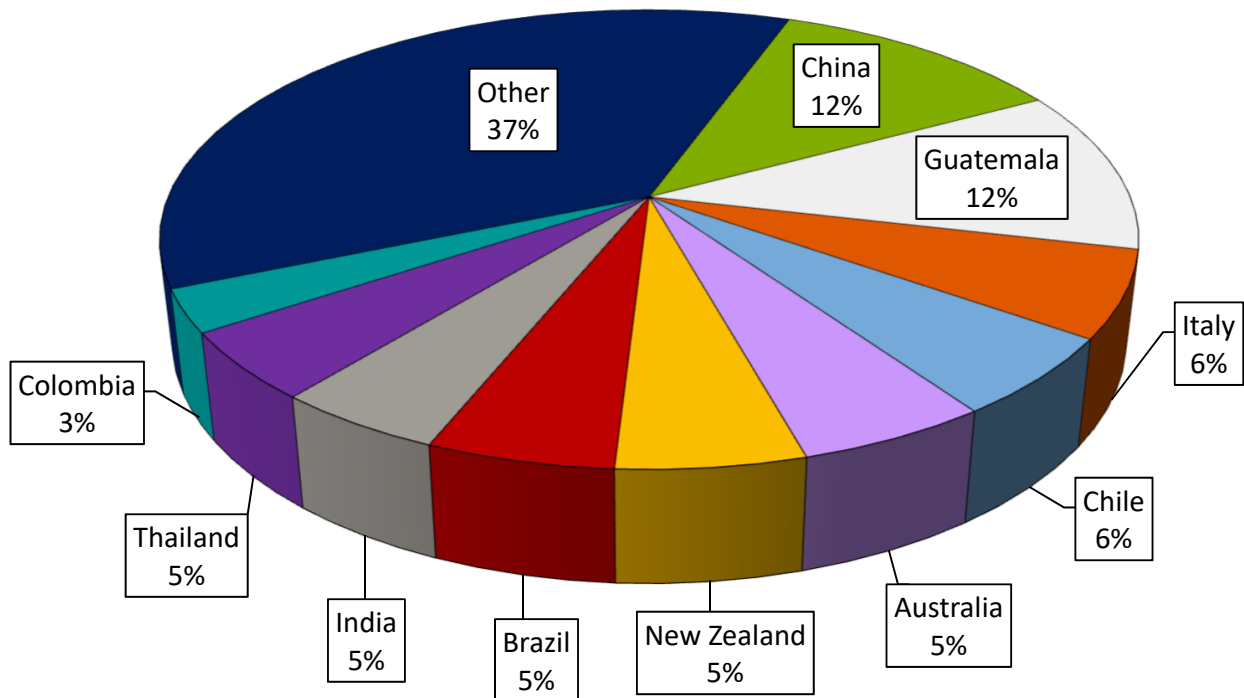
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Imports Through Seattle, WA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Coffee	90,776	4,999	12%	6%
Bananas	84,963	9,294	11%	2%
Non-alcoholic beverages	69,585	5,721	9%	2%
Fruit	44,433	4,205	6%	2%
Wine	40,622	5,384	5%	2%
Meat	37,400	2,100	5%	4%
Soybeans	32,482	1,703	4%	8%
Frozen fish	30,309	2,860	4%	3%
Sugar	28,393	1,583	4%	6%
Beer, ale	26,780	2,555	4%	1%
Other	262,375	23,081	35%	
Total	748,119	63,486	100%	2%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Seattle, WA, 2017



Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Imports
Through Seattle, WA, 2017**

Shipping Line	Metric Tons	Share
Mediterranean Shpg	216,562	28%
Hapag Lloyd Line	209,415	27%
Hamburg Sud	89,036	11%
Maersk	44,886	6%
APL	33,424	4%
OOCL	31,122	4%
ANL Container Line	23,597	3%
CMA-CGM	20,684	3%
COSCO	18,256	2%
Champion Tankers AS	17,500	2%
Other	79,912	10%
Total	784,395	100%

Source: IHS Markit/PIERS



Export/Import Profile

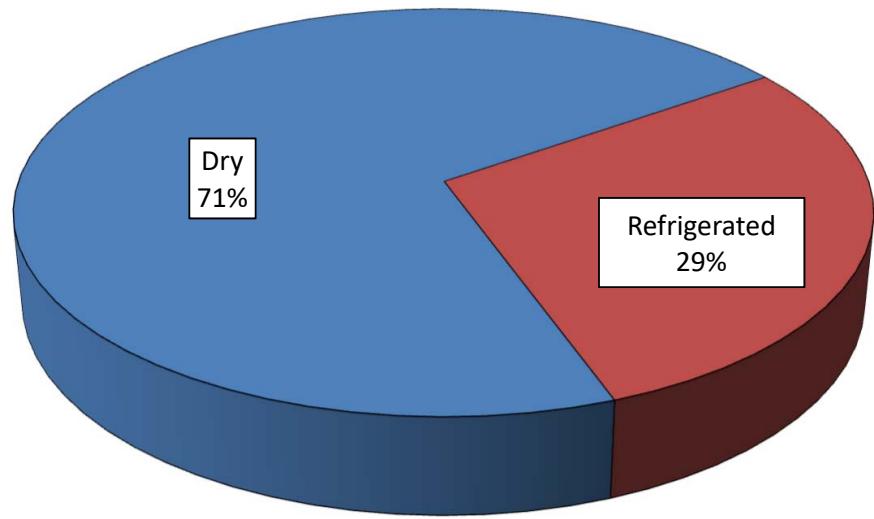
Oakland, CA

The Port of Oakland is located on the Pacific Ocean on the northern California coastline. The port is the seventh busiest container port in the nation and loads and discharges more than 99 percent of the containerized goods moving through Northern California. In 2017, the port handled more than 2.4 million twenty-foot equivalent units.

Exports

In 2017, the Port of Oakland ranked 11th in the nation for total waterborne agricultural exports and 3rd for containerized waterborne agricultural exports. The port moved more than 4.2 million metric tons of agricultural export cargo in 2017; more than 99 percent of which moved in containers. The commodities with the largest volumes were nuts, meat, and animal feed, accounting for more than 42 percent of the total agricultural exports through the port. Oakland moved 59 percent of U.S. edible nut and 75 percent of U.S. prepared tomato exports in 2017. The top shipping lines were Hapag Lloyd Line, Mediterranean Shipping, and Evergreen. The top destination markets were Japan, China, and South Korea.

U.S. Waterborne Agricultural Exports Through Oakland, CA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Oakland, CA, 2017

Commodity	Metric Tons	Share	U.S. Share
Edible nuts	789,017	19%	59%
Meat	553,563	13%	21%
Animal feed	441,742	10%	4%
Rice	372,871	9%	14%
Tomatoes, prepared	295,343	7%	75%
Wine	267,056	6%	53%
Grocery items	226,146	5%	7%
Fruit	182,814	4%	15%
Oranges	162,253	4%	45%
Non-alcoholic beverages	128,501	3%	13%
Other	844,837	20%	
Total	4,264,143	100%	3%

Source: IHS Markit/PIERS

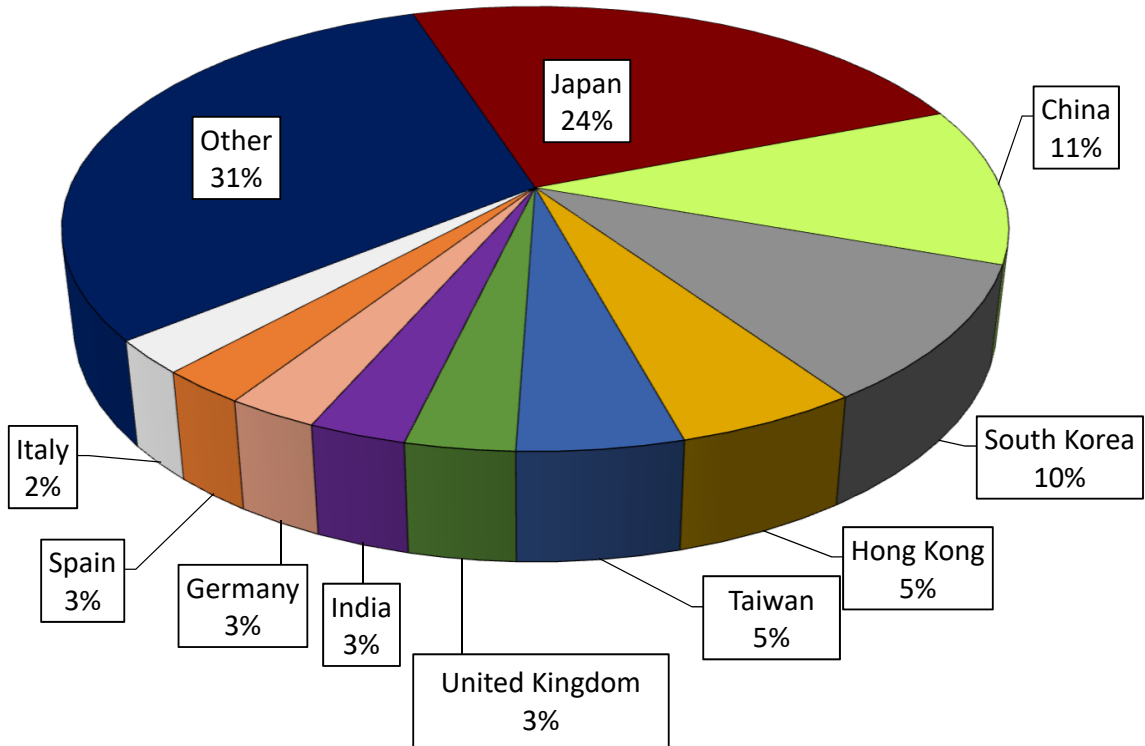
U.S. Containerized Waterborne Agricultural Exports Through Oakland, CA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Edible nuts	783,223	74,174	18%	59%
Meat	544,639	60,517	13%	21%
Animal feed	441,130	38,341	10%	6%
Rice	372,148	22,212	9%	60%
Tomatoes, prepared	295,200	17,112	7%	75%
Wine	266,620	20,114	6%	75%
Grocery items	223,806	30,516	5%	7%
Fruit	182,079	16,568	4%	19%
Oranges	157,775	15,913	4%	45%
Non-alcoholic beverages	127,691	11,949	3%	16%
Other	841,298	74,676	20%	
Total	4,235,609	382,093	100%	12%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Oakland, CA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Oakland, CA, 2017

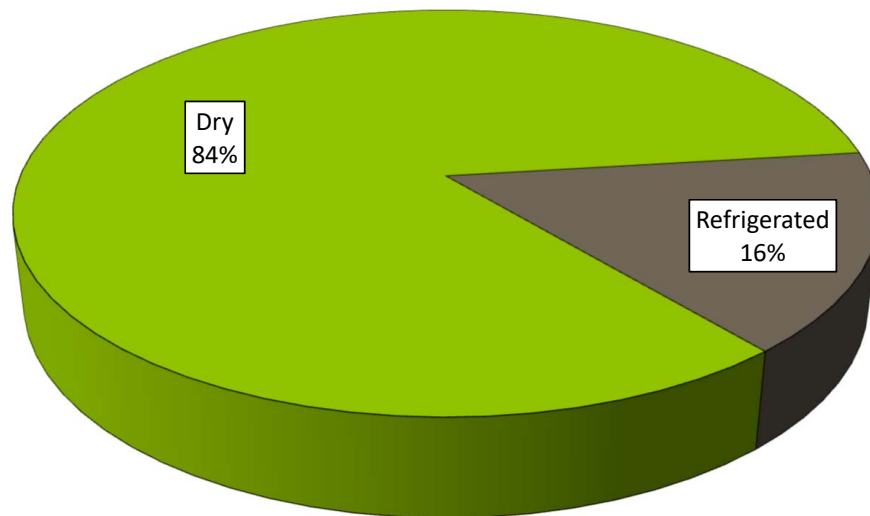
Shipping Line	Metric Tons	Share
Hapag Lloyd Line	460,366	11%
Mediterranean Shipping	444,401	10%
Evergreen	399,082	9%
MOL	389,036	9%
CMA-CGM	381,635	9%
K Line	344,663	8%
NYK Line	302,620	7%
APL	271,059	6%
Hamburg Sud	270,419	6%
Yang Ming	257,882	6%
Other	742,981	17%
Total	4,264,143	100%

Source: IHS Markit/PIERS

Imports

The Port of Oakland moved over 2 million metric tons of agricultural import cargo in 2017, all of which moved in containers. The top agricultural imports were wine, coffee, and non-alcoholic beverages, representing about 35 percent of the port's agricultural imports in 2017. Oakland was also a major import port for sunflower oil, soybeans, and prunes. The port's top shipping lines included Mediterranean Shipping, Hapag Lloyd Line, and Hamburg Sud. The top origin countries were China, Thailand, and Australia.

U.S. Waterborne Agricultural Imports Through Oakland, CA, 2017



Source: IHS Markit/PIERS

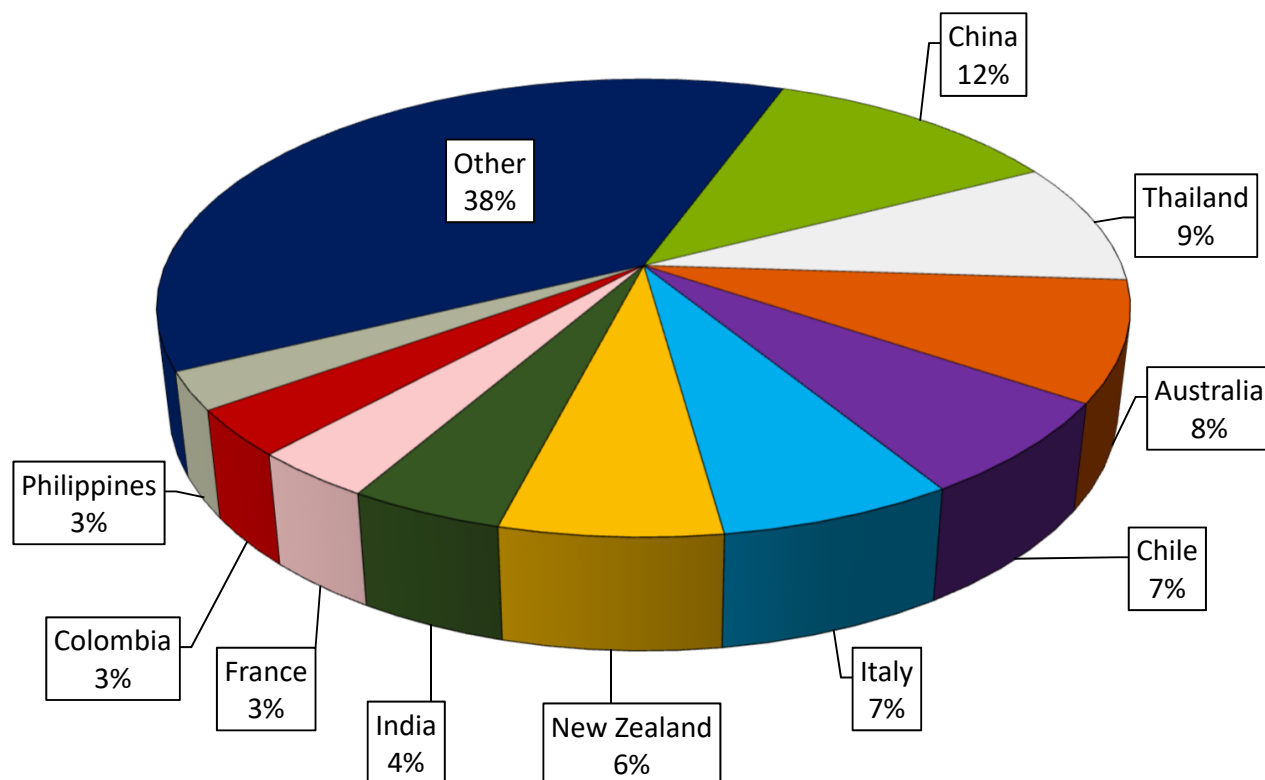
U.S. Containerized Waterborne Agricultural Imports Through Oakland, CA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Wine	398,456	28,037	20%	20%
Coffee	158,635	8,671	8%	10%
Non-alcoholic beverages	152,952	11,187	8%	5%
Grocery items	133,930	13,577	7%	8%
Rice	110,321	7,770	5%	10%
Meat	97,152	6,185	5%	9%
Beer, ale	88,241	8,014	4%	4%
Soybeans	85,742	4,644	4%	22%
Vegetables	74,749	5,449	4%	5%
Fruit	47,280	4,261	2%	2%
Other	679,365	57,642	34%	
Total	2,026,823	155,437	100%	6%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Oakland, CA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Imports Through Oakland, CA, 2017

Shipping Line	Metric Tons	Share
Mediterranean Shpg	470,555	23%
Hapag Lloyd Line	346,973	17%
Hamburg Sud	267,324	13%
Evergreen	166,536	8%
Hyundai Merchant Marine	93,214	5%
ANL Container Line	90,728	4%
NYK Line	90,478	4%
APL	83,950	4%
Maersk	78,936	4%
MOL	72,965	4%
Other	265,163	13%
Total	2,026,823	100%

Source: IHS Markit/PIERS



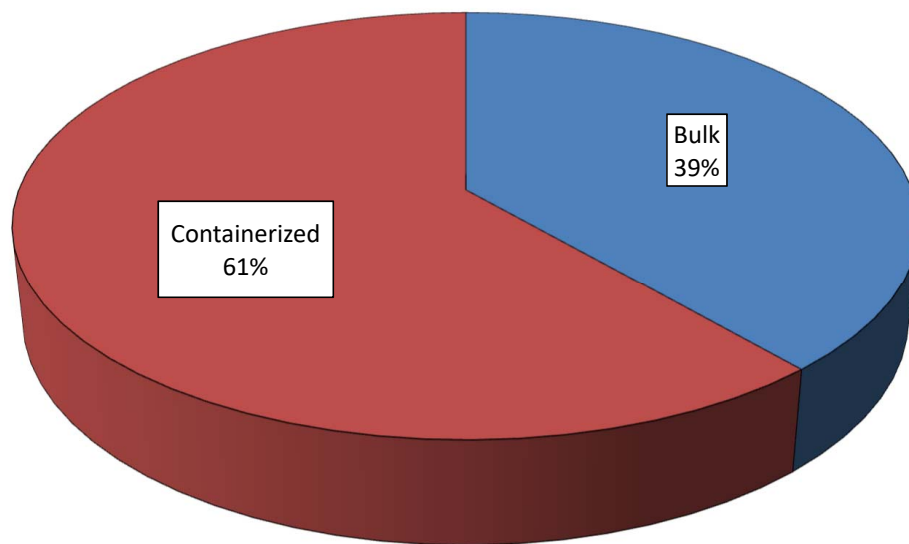
Export/Import Profile **Norfolk, VA**

The Port of Norfolk is located in Southern Virginia in the mid-Atlantic region of the country. Norfolk offers a naturally deep-water harbor allowing access for some of the largest container ships in the industry. The port handled 2.7 million twenty-foot equivalent units in 2017. Norfolk is located 18 miles, or 2.5 hours, from the open sea. The port has direct rail access to Norfolk Southern's Heartland Corridor, allowing second-day double-stack service to Midwest markets.

Exports

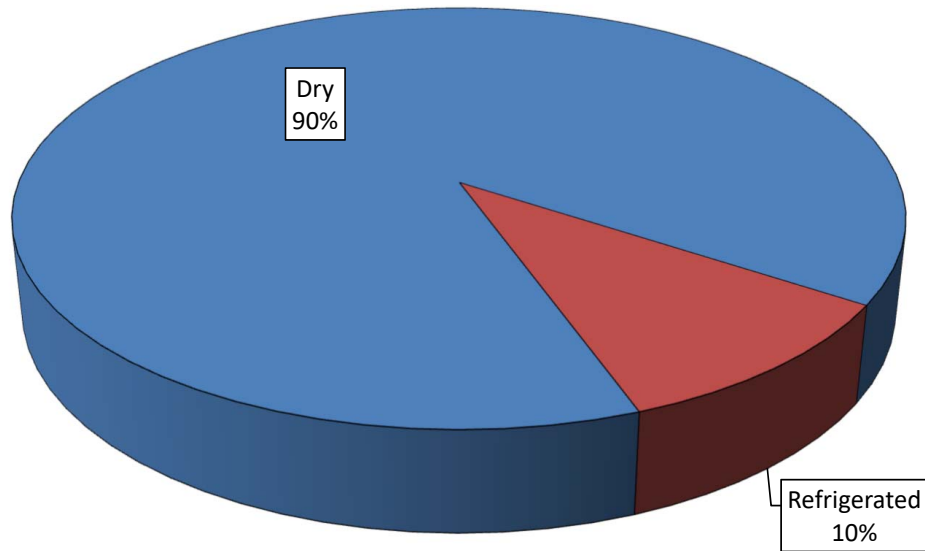
In 2017, the Port of Norfolk moved more than 4.6 million metric tons of agricultural exports making it the 8th largest port in the nation for total waterborne agricultural exports and 5th for containerized waterborne agricultural exports. The top commodities moved were soybeans, animal feed, grain products, and prepared grocery items. The port moved 74 percent of the total U.S. waterborne tobacco exports and 20 percent of soybean oil exports in 2017. About 61 percent of agricultural exports through Norfolk were containerized. The top destination markets included China, Indonesia, Thailand, and Taiwan.

U.S. Waterborne Agricultural Exports Through Norfolk, VA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Norfolk, VA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Norfolk, VA, 2017

Commodity	Metric Tons	Share	U.S. Share
Soybeans	2,470,903	53%	5%
Animal feed	515,130	11%	5%
Grain products, bread, flour	266,636	6%	1%
Grocery items	239,021	5%	7%
Poultry	153,933	3%	6%
Vegetables	138,312	3%	7%
Soybean oil	137,921	3%	20%
Meat	137,804	3%	5%
Tobacco	103,448	2%	74%
Bulbs and seeds	72,660	2%	9%
Other	428,212	9%	
Total	4,663,980	100%	3%

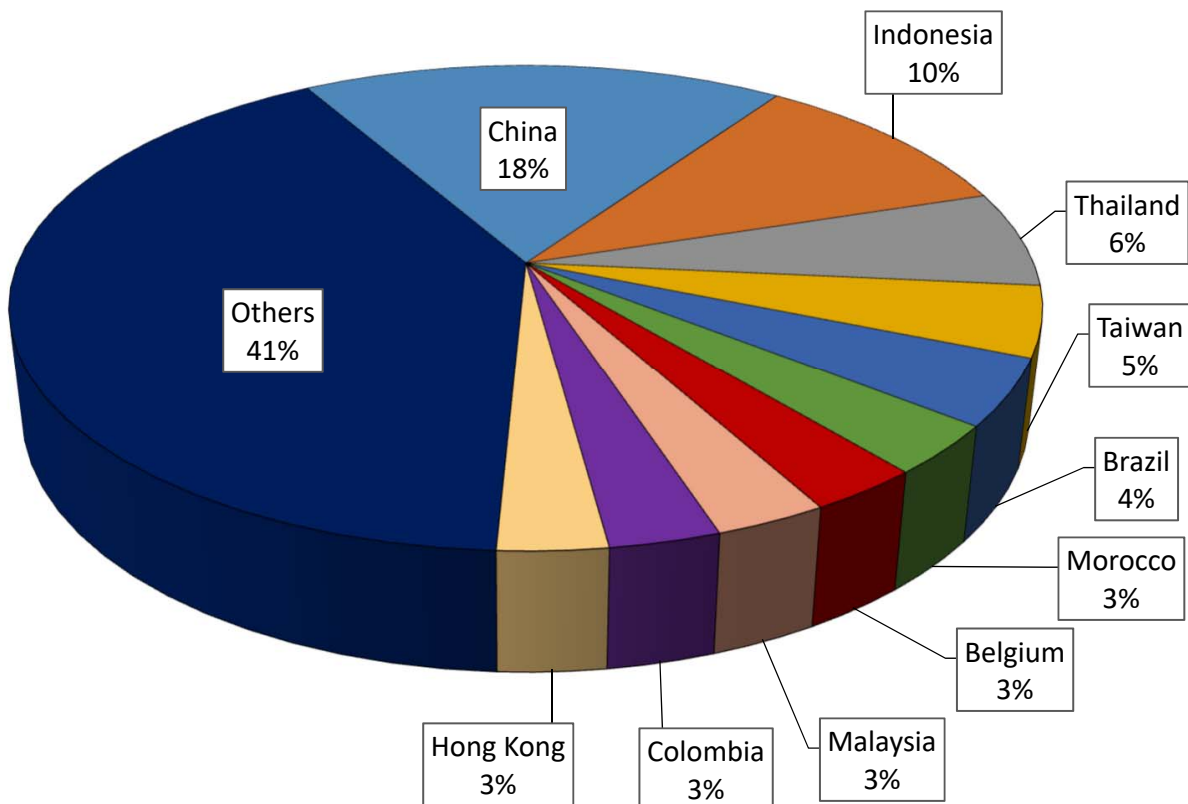
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Exports Through Norfolk, VA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Soybeans	1,072,530	82,073	37%	29%
Animal feed	514,384	40,823	18%	7%
Grocery items	238,724	24,082	8%	8%
Poultry	153,583	11,971	5%	7%
Vegetables	138,156	12,169	5%	7%
Meat	137,557	11,267	5%	5%
Tobacco	103,406	9,696	4%	75%
Bulbs and seeds	72,660	5,962	3%	11%
Grain products, bread, flour	70,672	5,672	2%	6%
Cotton	26,043	2,511	1%	2%
Other	333,625	31,538	12%	
Total	2,861,340	237,763	100%	8%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Norfolk, VA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Norfolk, VA, 2017

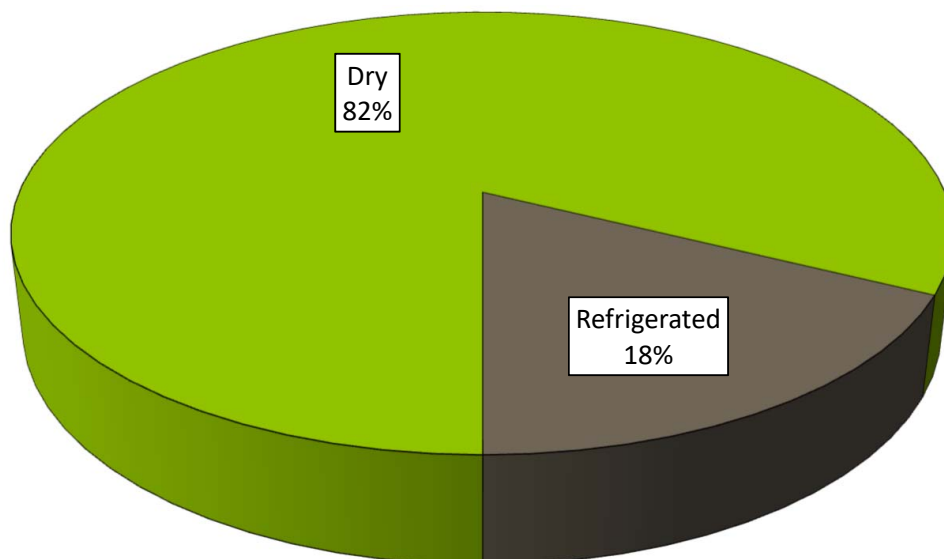
Shipping Line	Metric Tons	Share
Unknown Bulk Carriers	1,192,218	26%
Maersk	542,935	12%
Cape Lines	466,210	10%
Mediterranean Shipping	413,865	9%
CMA-CGM	358,143	8%
Hapag Lloyd Line	273,596	6%
OOCL	169,659	4%
MOL	162,982	3%
Evergreen	160,363	3%
APL	155,666	3%
Other	768,342	16%
Total	4,663,980	100%

Source: IHS Markit/PIERS

Imports

Norfolk moved nearly 1.4 million metric tons, or 3 percent, of U.S. waterborne agricultural imports in 2017. All of these commodities moved in containers and included non-alcoholic beverages, coffee, wine, tobacco products, and frozen fish. The port moved 72 percent of the total U.S. waterborne imports of tobacco and tobacco products. The top origin markets in 2017 included Germany, Italy, China, and India; the top shipping lines used were Mediterranean Shipping, Hapag-Lloyd, and CMA-CGM.

U.S. Waterborne Agricultural Imports Through Norfolk, VA, 2017



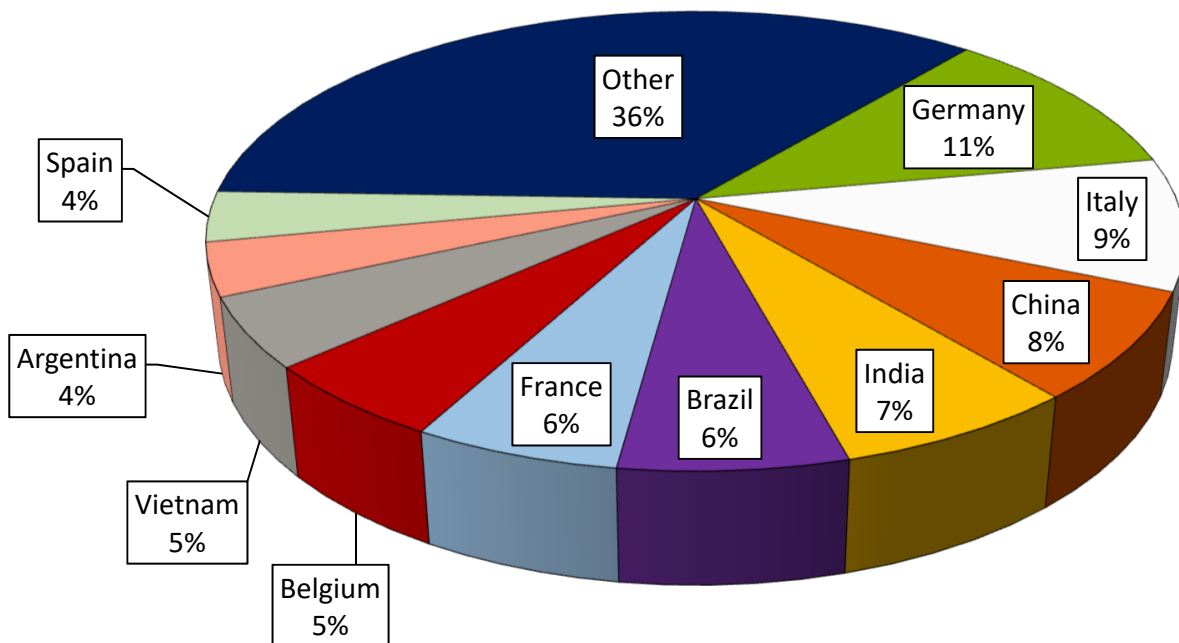
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Imports Through Norfolk, VA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Non-alcoholic beverages	163,715	14,648	12%	6%
Coffee	119,127	6,926	9%	7%
Wine	112,203	12,107	8%	6%
Tobacco products	104,269	10,782	8%	72%
Frozen fish	74,300	6,541	5%	7%
Vegetables	73,946	5,678	5%	5%
Beer, ale	62,076	6,160	4%	3%
Bitters, spirits, liquor	55,984	4,672	4%	9%
Edible nuts	49,715	3,572	4%	19%
Grocery items	44,692	5,472	3%	3%
Other	521,065	48,800	38%	
Total	1,381,092	125,358	100%	4%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Norfolk, VA, 2017



Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Imports
Through Norfolk, VA, 2017**

Shipping Line	Metric Tons	Share
Mediterranean Shpg	260,283	19%
Hapag Lloyd Line	196,301	14%
CMA-CGM	137,746	10%
Maersk	112,149	8%
OOCL	104,111	8%
NYK Line	76,777	6%
Sealand	71,015	5%
Yang Ming Marine	54,118	4%
APL	50,870	4%
ZIM Israeli Navigation	39,929	3%
Other	277,792	20%
Total	1,381,092	100%

Source: IHS Markit/PIERS



Export/Import Profile

Longview, WA

The Port of Longview has eight marine terminals and waterfront industrial property spanning 835 acres on the deep-draft Columbia River, 66 miles from the Pacific Ocean in Southwest Washington State. These marine terminals handle breakbulk products such as construction materials and steel; dry bulk commodities such as grain, clay, petroleum coke, and salt; forestry products; and heavy-lift project cargo.

Exports

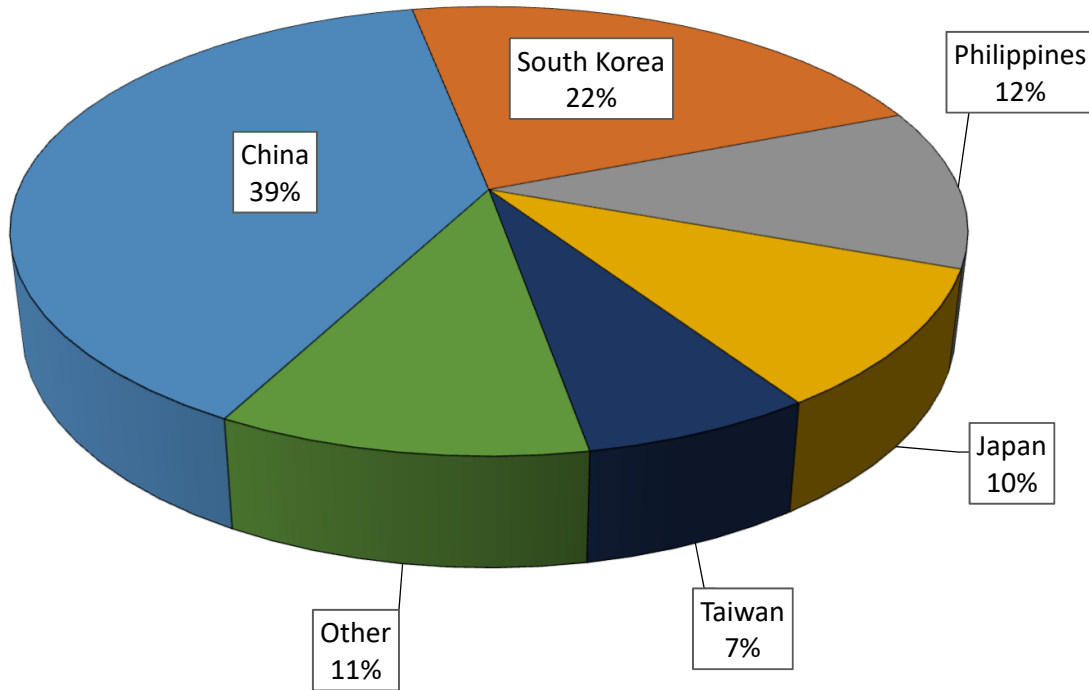
In 2017, Longview ranked 6th in the nation for total waterborne agricultural exports moving more than 5.4 million metric tons of agricultural exports. All of these cargoes moved in bulk vessels. Grain products, soybeans, and bulk grains accounted for over 97 percent of the port’s agricultural exports. The top destination markets were China, South Korea, and the Philippines.

U.S. Waterborne Agricultural Exports Through Longview, WA, 2017

Commodity	Metric Tons	Share	U.S. Share
Grain products, bread, flour	1,973,999	36%	5%
Soybeans	1,750,002	32%	4%
Bulk grains	1,558,148	29%	7%
Fruit	66,000	1%	5%
Other	62,036	1%	
Total	5,410,185	100%	4%

Source: IHS Markit/PIERS

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Longview, WA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Longview, WA, 2017

Shipping Line	Metric Tons	Share
Unknown Bulk Carriers	1,248,766	23%
Bunge SA	971,153	18%
Blue Water Shipping Co	773,317	14%
Pan Ocean Shipping	589,108	11%
Raffles Shipping & Investment Pte Ltd	322,809	6%
ADM Shpg Co	196,318	4%
Hyundai Glovis	113,175	2%
Dampskibsselskabet Norden Aktieselskab	110,165	2%
Mur Shpg	109,000	2%
Nyk Bulk & Projects Carriers Ltd	86,821	2%
Other	889,552	16%
Total	5,410,185	100%

Source: IHS Markit/PIERS

Imports

No agricultural import cargo moved through the Port of Longview in 2017.

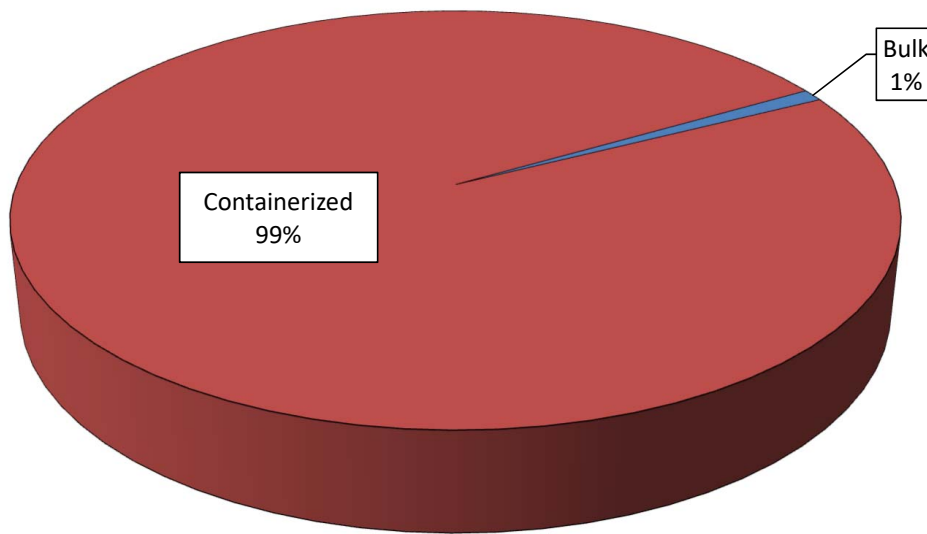


The Port of Savannah, GA, is located on the U.S. Eastern seaboard just up the Savannah River from the Atlantic Ocean. The Port of Savannah is the 4th largest container port in the United States. The port handled a record 4.046 million twenty-foot equivalent units during calendar year 2017. Savannah’s top export commodities include food, wood pulp, paper and paperboard, and retail consumer goods. The port’s top import commodities include retail consumer goods, machinery, furniture, and automotive. Despite its east coast location, Savannah’s top trade lane for both export and import cargo is Northeast Asia.

Exports

In 2017, the Port of Savannah ranked 14th in the nation for total waterborne agricultural exports and 6th for containerized waterborne agricultural exports. The port exported just over 2.7 million metric tons of agricultural products in 2017. Nearly all agricultural exports through the port moved in containers. The top commodities were poultry, cotton, and animal feed, representing almost 60 percent of total agricultural exports through the port. The Port of Savannah was the top U.S. port for waterborne poultry exports in 2017 moving 37 percent of the U.S. total. The top destination markets were China, South Korea, and Vietnam, and the major shipping lines were Mediterranean Shipping, Maersk, CMA-CGM, and MOL.

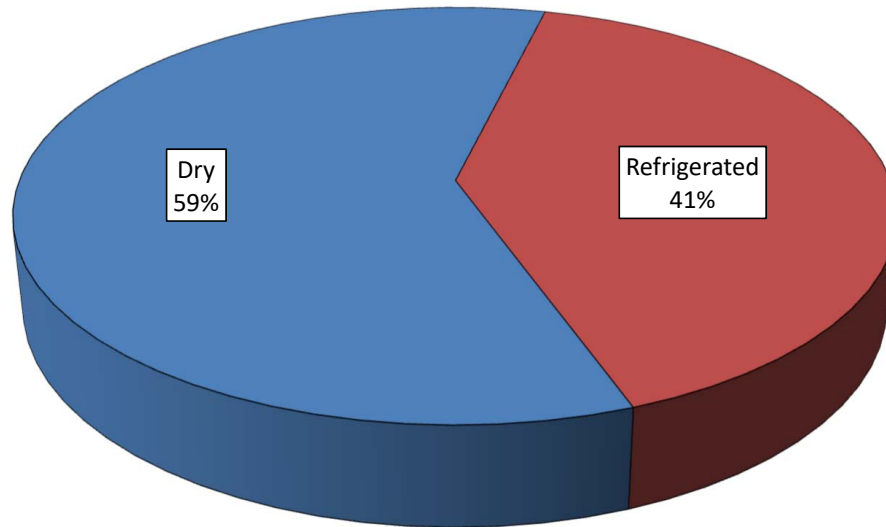
U.S. Waterborne Agricultural Exports Through Savannah, GA, 2017



Source: IHS Markit/PIERS

Photo Credit: Georgia Ports Authority, photo by Stephen Morton

U.S. Waterborne Agricultural Exports Through Savannah, GA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Savannah, GA, 2017

Commodity	Metric Tons	Share	U.S. Share
Poultry	903,614	33%	37%
Cotton	344,210	13%	20%
Animal feed	342,659	13%	3%
Bulbs and seeds	198,951	7%	26%
Edible nuts	184,605	7%	14%
Grocery items	142,696	5%	4%
Meat	93,443	3%	4%
Soybeans	64,399	2%	0%
Beer, ale	60,826	2%	14%
Bourbon, Scotch	54,590	2%	40%
Other	332,571	12%	
Total	2,722,564	100%	2%

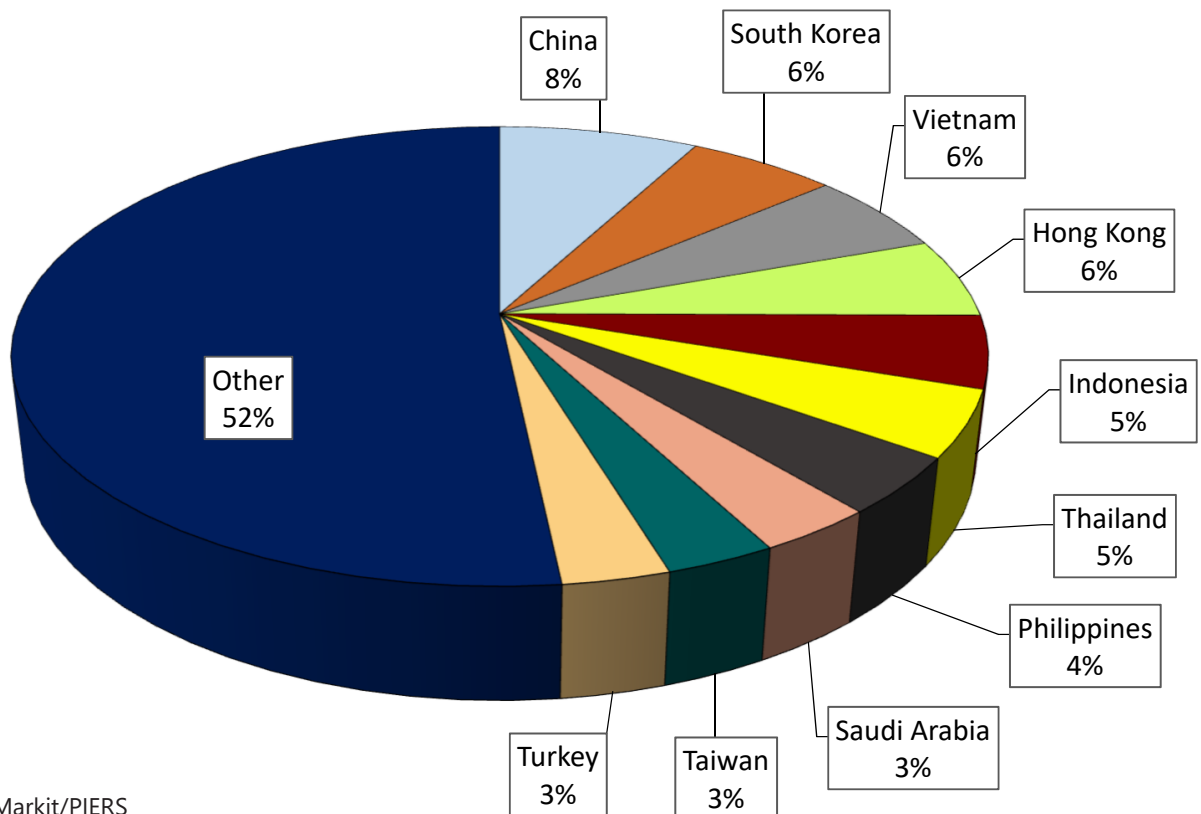
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Exports Through Savannah, GA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Poultry	900,075	67,352	33%	39%
Animal feed	341,821	27,013	13%	5%
Cotton	339,886	32,638	13%	20%
Bulbs and seeds	196,994	15,997	7%	30%
Edible nuts	184,425	16,763	7%	14%
Grocery items	142,524	15,518	5%	5%
Meat	93,200	6,915	3%	4%
Soybeans	64,399	5,232	2%	2%
Beer, ale	60,626	5,450	2%	14%
Bourbon, Scotch	54,440	4,822	2%	40%
Other	319,113	26,888	12%	
Total	2,697,503	224,587	100%	8%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Savannah, GA, 2017



Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Exports
Through Savannah, GA, 2017**

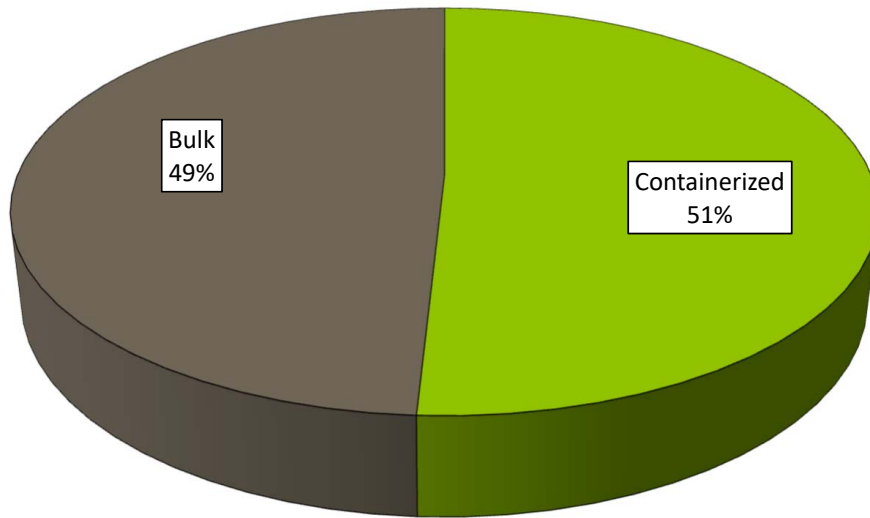
Shipping Line	Metric Tons	Share
Mediterranean Shipping	452,628	17%
Maersk	376,563	14%
CMA-CGM	302,123	11%
MOL	229,450	8%
NYK Line	179,510	7%
Hapag Lloyd Line	172,464	6%
Hyundai Merchant Marine	147,134	5%
Zim Israeli Navigation	143,199	5%
Evergreen	136,018	5%
Yang Ming Marine	101,635	4%
Other	481,841	18%
Total	2,722,564	100%

Source: IHS Markit/PIERS

Imports

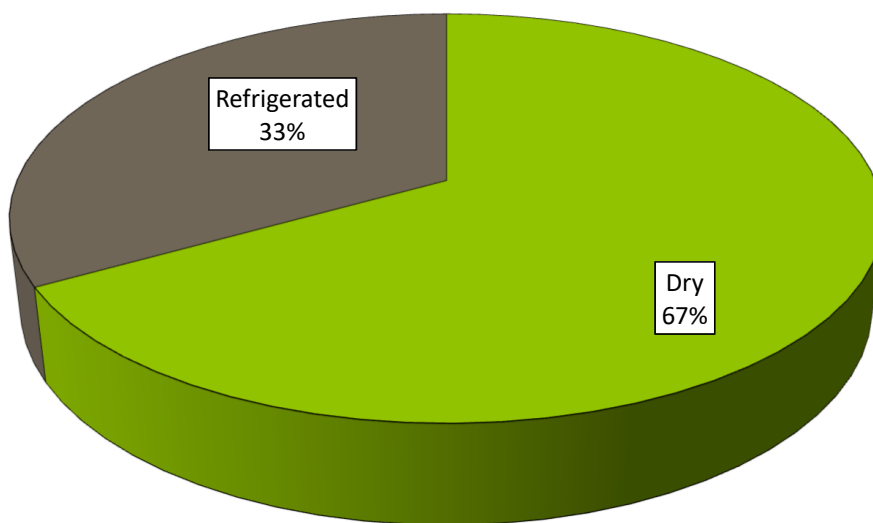
In 2017, the Port of Savannah ranked 4th in the nation for total U.S. waterborne agricultural imports and 10th for containerized waterborne agricultural imports. The port imported nearly 2.4 million metric tons of agricultural products in 2017, approximately 51 percent of which moved in containers. The top agricultural imports were sugar, palm oil, coffee, and beer. The port imported 49 percent of the total U.S. waterborne onion and shallot imports and 36 percent of the total palm oil imports in 2017. The top origin markets were Indonesia, Mexico, and Peru. The top shipping lines were Mediterranean Shipping, Cargill International, and Dowa Line America Co Ltd.

U.S. Waterborne Agricultural Imports Through Savannah, GA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Savannah, GA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Savannah, GA, 2017

Commodity	Metric Tons	Share	U.S. Share
Sugar	425,986	18%	20%
Palm oil	365,469	15%	36%
Coffee	210,806	9%	9%
Beer, ale	187,154	8%	9%
Non-alcoholic beverages	141,100	6%	4%
Palm kernel oil	130,257	5%	19%
Onions, shallots	77,392	3%	49%
Wine	58,128	2%	2%
Vegetables	51,447	2%	3%
Candy, confections	51,410	2%	7%
Other	696,596	29%	
Total	2,395,747	100%	5%

Source: IHS Markit/PIERS

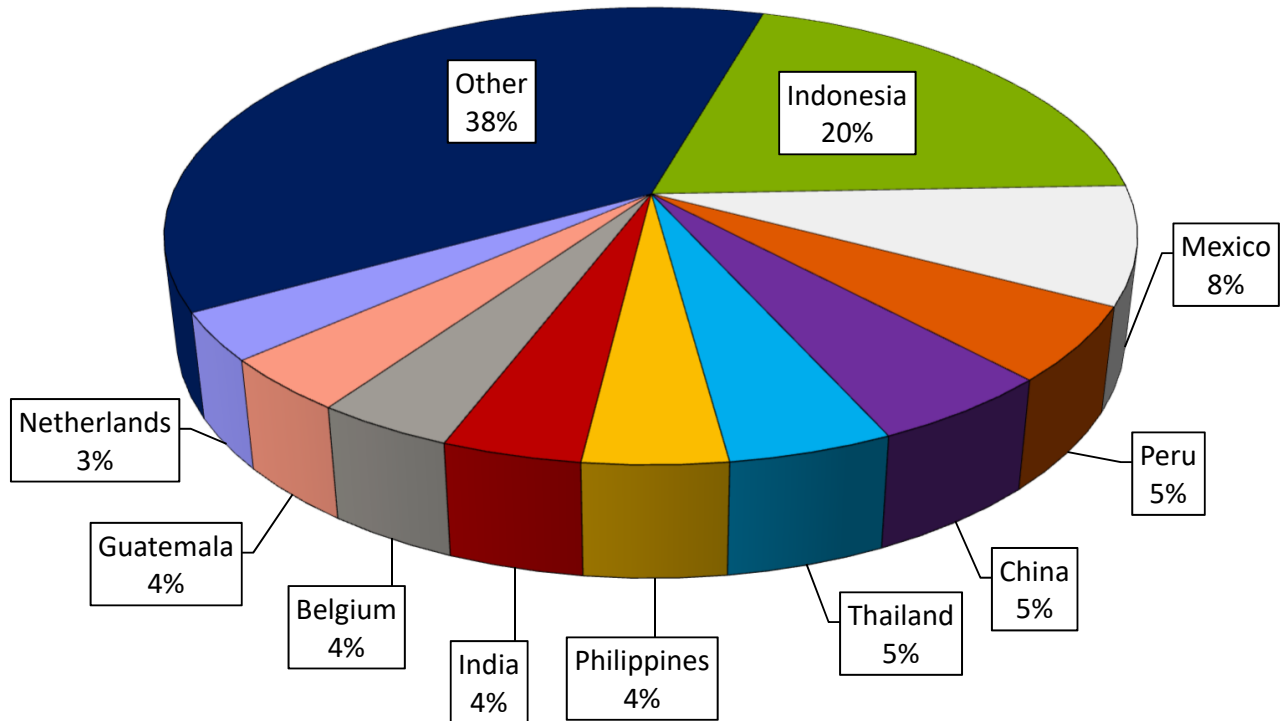
U.S. Containerized Waterborne Agricultural Imports Through Savannah, GA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Beer, ale	187,154	14,494	15%	9%
Non-alcoholic beverages	134,911	8,893	11%	5%
Onions, shallots	77,392	5,676	6%	49%
Wine	58,128	6,122	5%	3%
Shrimp, prawns	50,481	5,015	4%	8%
Grocery items	50,404	5,539	4%	3%
Vegetables	50,293	4,579	4%	3%
Rice	48,700	2,882	4%	4%
Frozen fish	40,914	3,551	3%	4%
Candy, confections	38,997	4,886	3%	6%
Other	481,057	41,508	39%	
Total	1,218,430	103,144	100%	4%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Savannah, GA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Imports Through Savannah, GA, 2017

Shipping Line	Metric Tons	Share
Mediterranean Shpg	314,118	13%
Cargill Intl	290,686	12%
Dowa Line America Co Ltd	221,776	9%
Hapag Lloyd Line	145,154	6%
CMA-CGM	137,794	6%
Maersk	110,777	5%
Clipper Bulk Shpg	98,300	4%
NYK Line	93,859	4%
Champion Tankers AS	74,135	3%
APL	72,782	3%
Other	836,365	35%
Total	2,395,747	100%

Source: IHS Markit/PIERS



Export/Import Profile

Vancouver, WA

The Port of Vancouver, WA, is located in the Pacific Northwest region of the U.S. West Coast. The port is situated on the Columbia River, across from Portland, OR, and upstream from the ports of Longview and Kalama, WA. The port handled 392 vessel calls in 2017, with a total cargo volume reaching nearly 7.5 million metric tons. Products moved include wheat, grains, mineral and liquid bulks, automobiles and project cargoes.

Exports

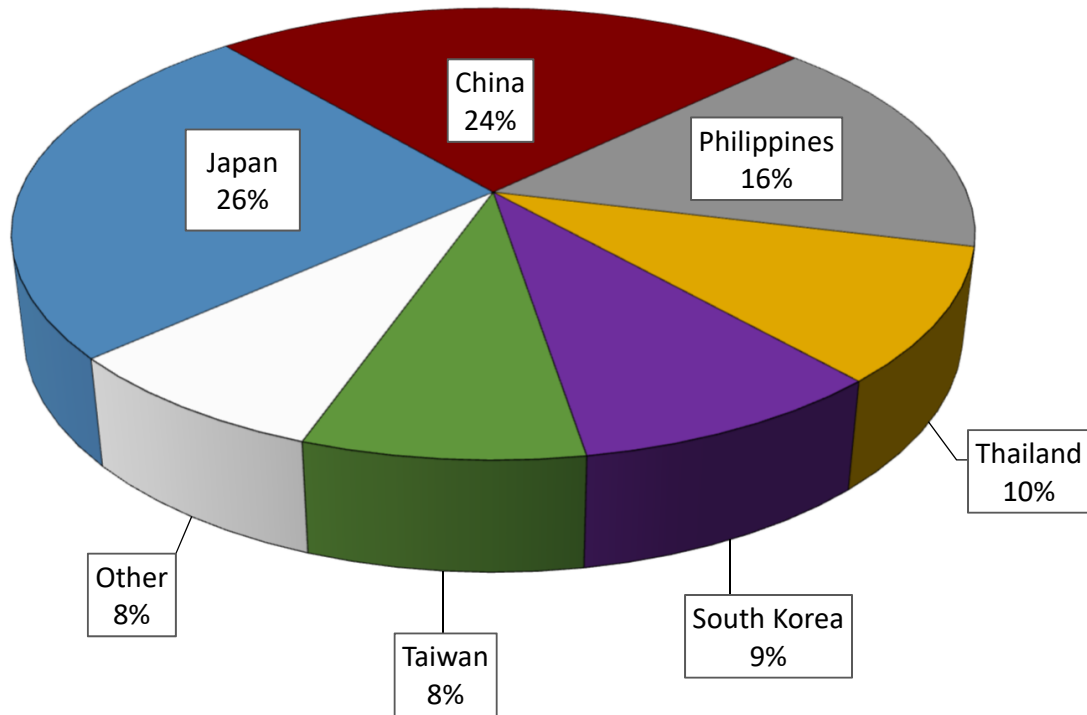
In 2017, the Port of Vancouver ranked 10th in the nation for total waterborne agricultural exports. The port moved more than 4.4 million metric tons of agricultural export cargo in 2017, all of which was shipped in dry bulk vessels. Bulk grains (mostly wheat), soybeans, and grain products accounted for 99 percent of agricultural exports through Vancouver. The top destination markets were Japan, China, and the Philippines.

U.S. Waterborne Agricultural Exports Through Vancouver, WA, 2017

Commodity	Metric Tons	Share	U.S. Share
Bulk grains	2,228,820	50%	10%
Soybeans	1,130,055	26%	2%
Grain products, bread, flour	998,413	23%	2%
Other	64,498	1%	
Total	4,421,787	100%	3%

Source: IHS Markit/PIERS

**Top Destination Countries for U.S. Waterborne Agricultural Exports
Through Vancouver, WA, 2017**



Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Exports
Through Vancouver, WA, 2017**

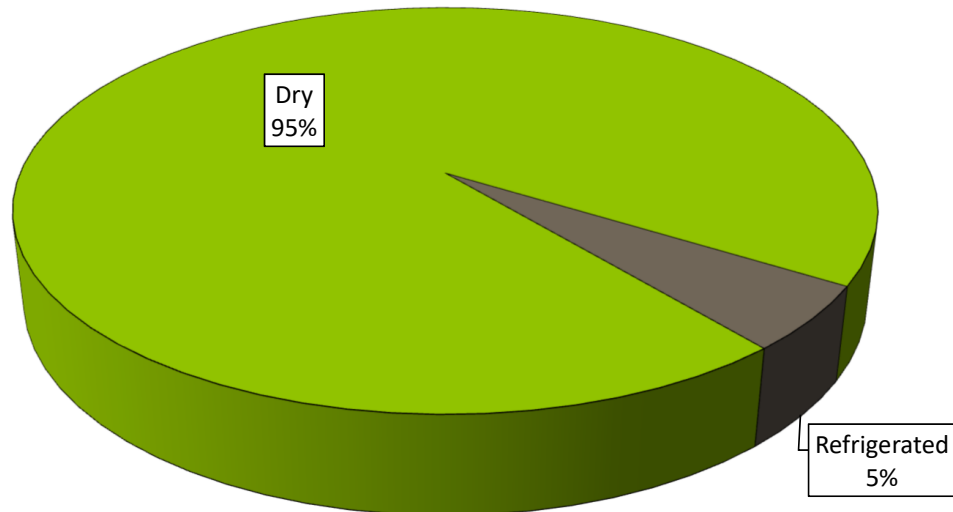
Shipping Line	Metric Tons	Share
Unknown Bulk Carriers	1,217,297	28%
Pan Ocean Shipping	725,931	16%
Oldendorff Carriers	532,867	12%
Dampskibsselskabet Norden Aktieselskab	277,799	6%
Blue Water Shipping Co	259,215	6%
Raffles Shipping & Investment Pte Ltd	215,442	5%
Fednav Intl Ltd	186,440	4%
Cargill Inc	115,772	3%
Cargill Intl	110,612	3%
Hyundai Glovis	106,000	2%
Other	674,412	15%
Total	4,421,787	100%

Source: IHS Markit/PIERS

Imports

The Port of Vancouver, WA, moved about 777 metric tons of agricultural import cargo in 2017. The top agricultural imports were rice, prepared grocery items, and soybeans; all of which moved in containers. The largest shipping lines were COSCO, APL, and ZIM Israeli Navigation. Thailand, India, and China were the top origin countries for these products.

U.S. Waterborne Agricultural Imports Through Vancouver, WA, 2017



Source: IHS Markit/PIERS

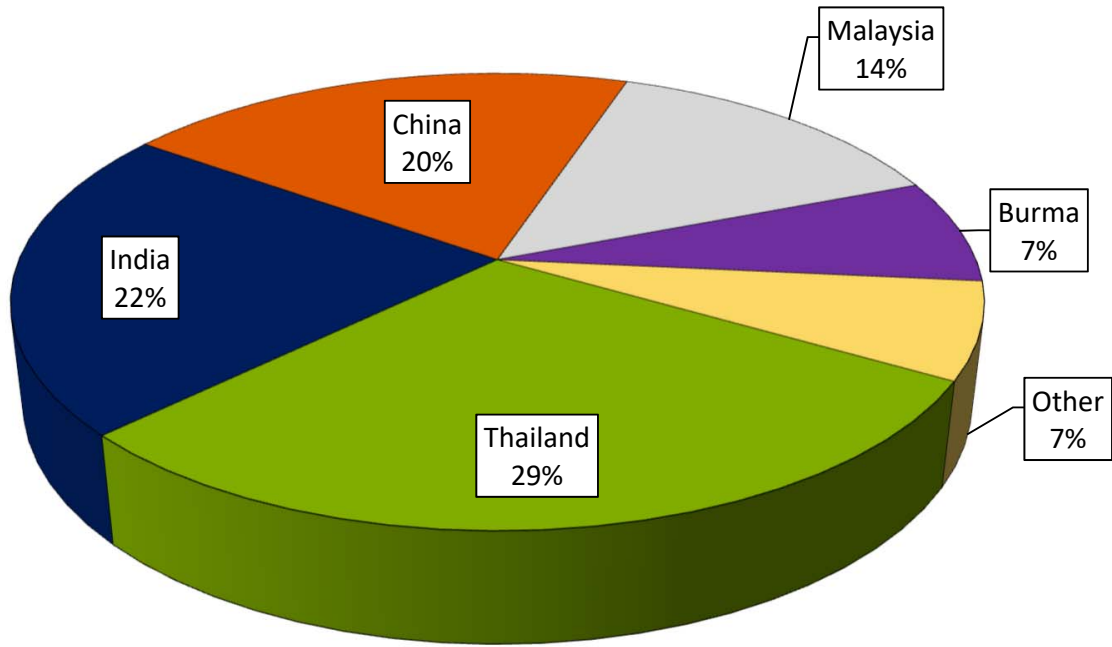
U.S. Waterborne Agricultural Imports Through Vancouver, WA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Rice	188	12	24%	0.02%
Grocery items	140	12	18%	0.01%
Soybeans	109	13	14%	0.03%
Herbs & spices	96	8	12%	0.02%
Vegetables	40	3	5%	0.00%
Canned fruit	35	2	5%	0.01%
Bananas	33	6	4%	0.00%
Edible nuts	24	2	3%	0.01%
Canned vegetables	21	1	3%	0.01%
Non-alcoholic beverages	21	1	3%	0.00%
Other	70	-	9%	
Total	777	60	100%	0.00%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Vancouver, WA, 2017

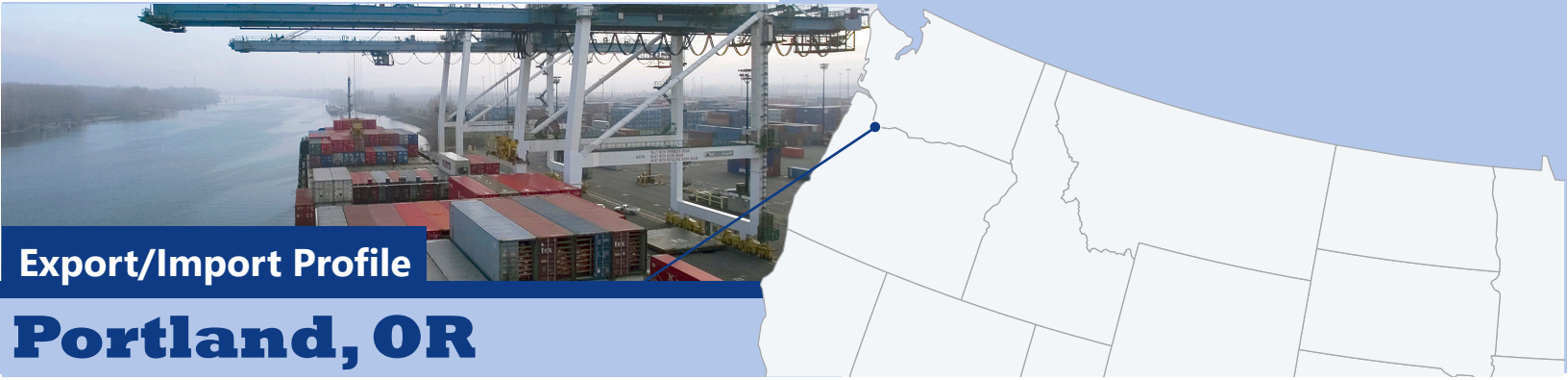


Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Imports Through Vancouver, WA, 2017

Shipping Line	Metric Tons	Share
COSCO	371	48%
APL	138	18%
ZIM Israeli Navigation	97	13%
Mediterranean Shpg	69	9%
CMA-CGM	46	6%
Other	55	7%
Total	777	100%

Source: IHS Markit/PIERS



Export/Import Profile

Portland, OR

The Port of Portland, OR, is located in the Northwest region of the country and is accessible via the Columbia River. The port’s marine terminals are located outside of the city proper with access to interstate highways and mainline rail lines. Like other ports in the region, Portland handles mostly bulk grain exports. Portland is the nation’s number one port for wheat exports. The port’s four marine terminals together accounted for 11.5 million short tons in 2017. Louis Dreyfus, TEMCO and Columbia Grain Inc. all provide export grain elevator services at the port.

Exports

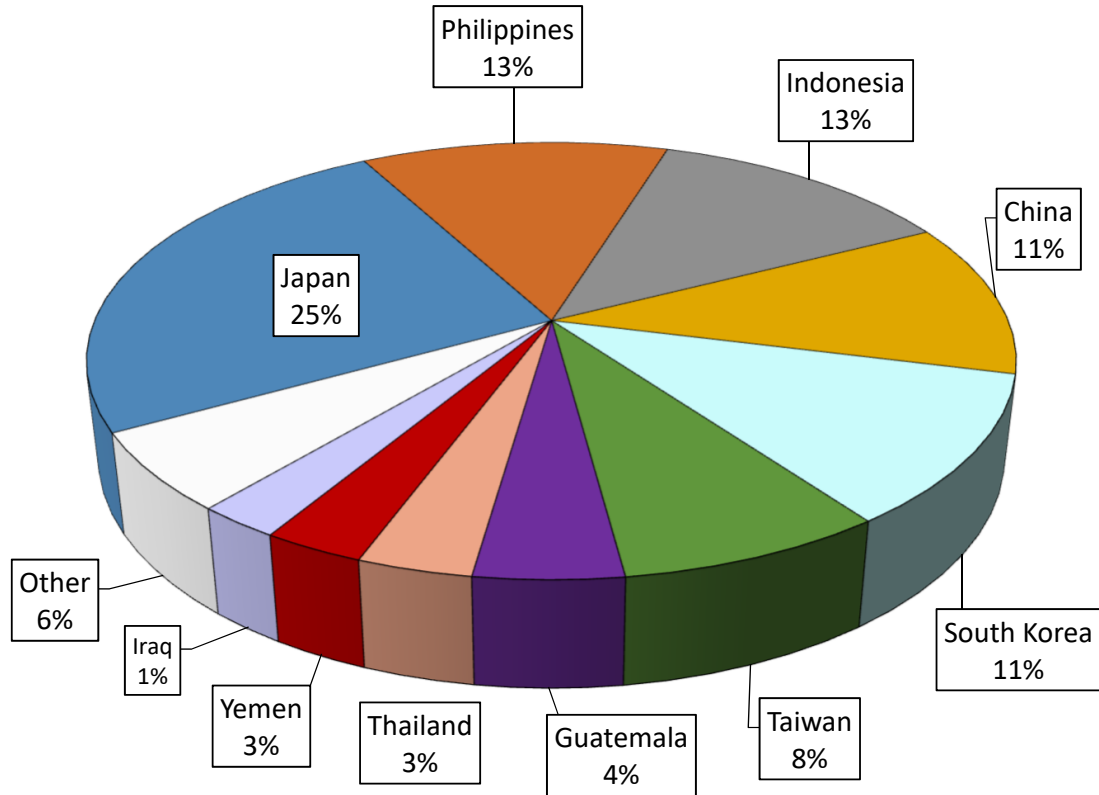
In 2017, the Port of Portland ranked 12th in the nation for total waterborne agricultural exports. The port moved more than 4.1 million metric tons of agricultural export cargo in 2017. About 97 percent of exports through Portland were bulk grains, soybeans, and other grain products, all of which moved in bulk vessels. Additionally, 12 percent of U.S. waterborne wine exports passed through the port in 2017. The top destination markets were Japan, the Philippines, and Indonesia.

U.S. Waterborne Agricultural Exports Through Portland, OR, 2017

Commodity	Metric Tons	Share	U.S. Share
Bulk grains	3,704,396	89%	17%
Soybeans	223,246	5%	0.5%
Grain products, bread, flour	132,654	3%	0.3%
Wine	61,468	1%	12%
Vegetables	19,160	0%	1%
Other	10,779	0%	
Total	4,151,703	100%	3%

Source: IHS Markit/PIERS

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Portland, OR, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Portland, OR, 2017

Shipping Line	Metric Tons	Share
Pan Ocean Shipping	706,295	17%
Unknown Bulk Carriers	518,982	13%
General Steamship Corp Ltd	337,107	8%
Blue Water Shipping Co	314,975	8%
ADM shpg Co	290,867	7%
Fednav Intl Ltd	190,809	5%
Hudson Shipping Lines, Inc	160,041	4%
Lauritzen Bulkers	121,337	3%
Nyk Bulk & Projects Carriers Ltd	120,684	3%
Internaves Usa Inc (Intl)	103,613	2%
Other	1,286,993	31%
Total	4,151,703	100%

Source: IHS Markit/PIERS

Imports

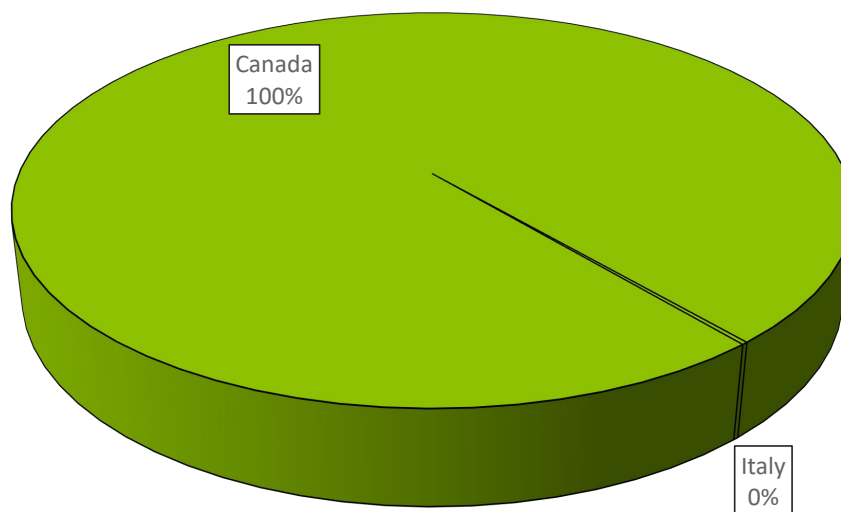
The Port of Portland moved nearly 10,000 metric tons of agricultural import cargo in 2017—almost all of these products were imported in bulk vessels. Bulk grains were the main agricultural import commodity. The port's top shipping lines included Marubeni Corp. and Hapag Lloyd Line. The top origin country was Canada.

U.S. Waterborne Agricultural Imports Through Portland, OR, 2017

Commodity	Metric Tons	Share	U.S. Share
Bulk grains	9,950	100%	5%
Tomatoes, prepared	20	0%	0%
Total	9,970	100%	0.0%

Source: IHS Markit/PIERS

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Portland, OR, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Imports Through Portland, OR, 2017

Shipping Line	Metric Tons	Share
Marubeni Corp	9,950	99.8%
Hapag Lloyd Line	20	0.2%
Total	9,970	100%

Source: IHS Markit/PIERS



Export/Import Profile

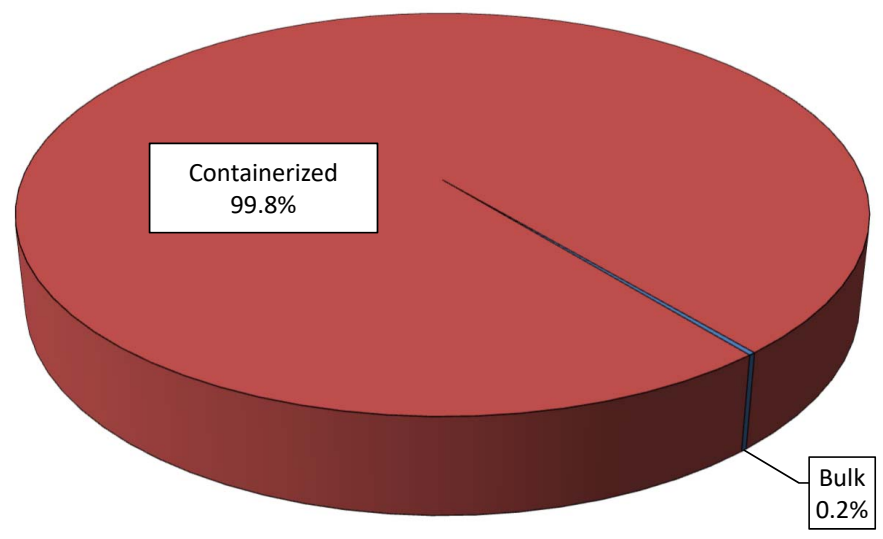
Philadelphia, PA

The Port of Philadelphia is located in the Mid-Atlantic region of the U.S. East Coast on the banks of the Delaware River. The port consists of a variety of specialized marine terminals that service containers, breakbulk cargo, automobiles, refrigerated and dry bulk products. Overall, the majority of agricultural cargo handled by the port is containerized. Philadelphia is one of the largest import ports in the United States and handles a large percentage of the nation's meat and fruit imports that arrive both in containers and bulk vessels. The port serves inland customers via two Class I railroads, CSX, and Norfolk Southern.

Exports

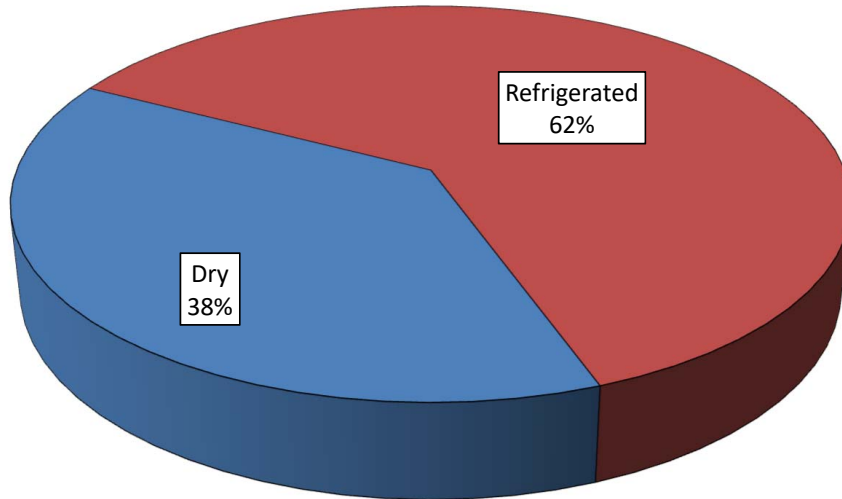
In 2017, the Port of Philadelphia ranked 18th for containerized waterborne agricultural exports. The port moved more than 155,000 metric tons of agricultural export cargo in 2017; 62 percent required refrigeration. The commodities with the largest volume were meat and prepared grocery items, representing approximately 47 percent and 13 percent of the port's agricultural exports, respectively. The top shipping lines Hamburg Sud, Sealand, Maersk, and Mediterranean Shipping, moved about 93 percent of the port's agricultural export cargo. The top destination markets were Australia, New Zealand, and Colombia.

U.S. Waterborne Agricultural Exports Through Philadelphia, PA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Philadelphia, PA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Philadelphia, PA, 2017

Commodity	Metric Tons	Share	U.S. Share
Meat	72,922	47%	3%
Grocery items	20,172	13%	1%
Animal feed	9,854	6%	0%
Vegetables	8,205	5%	0%
Cocoa; beans, liquor	6,606	4%	52%
Candy, confections	4,191	3%	1%
Dairy products	3,603	2%	0%
Non-alcoholic beverages	2,068	1%	0%
Grenadine, syrups	2,012	1%	4%
Leaves, moss, pollen	1,929	1%	6%
Other	23,804	15%	
Total	155,367	100%	0.1%

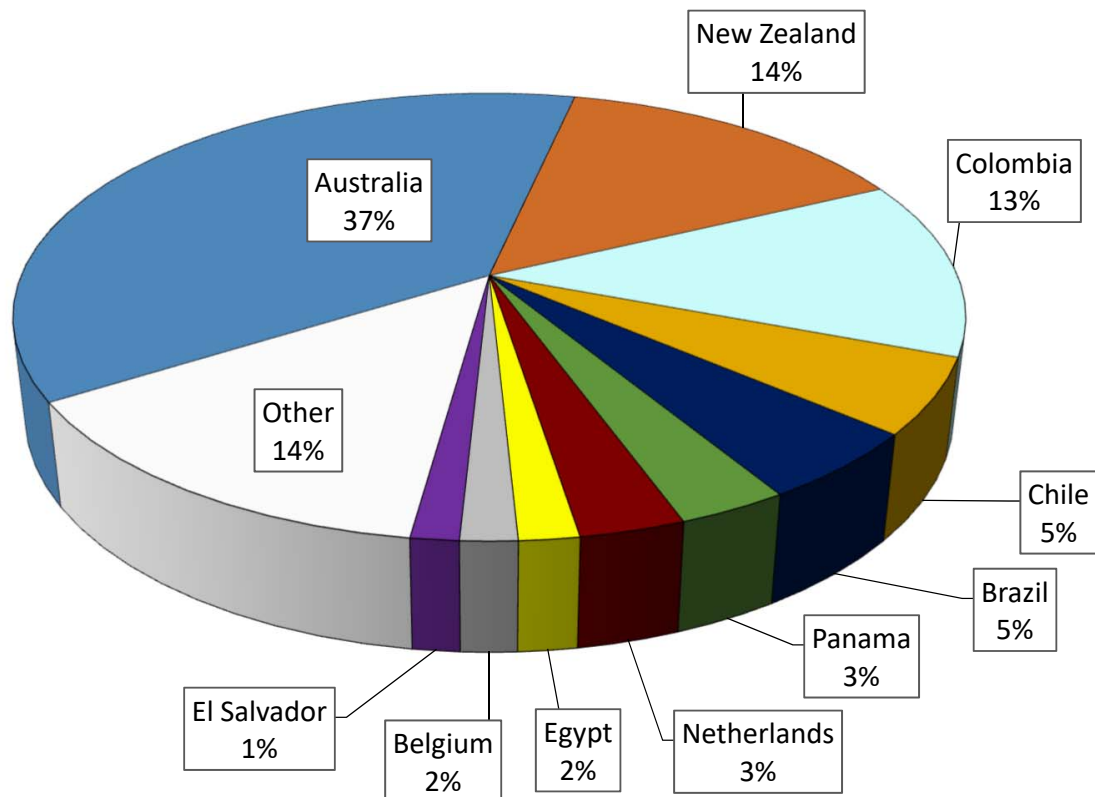
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Exports Through Philadelphia, PA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Meat	72,688	5,564	47%	3%
Grocery items	20,132	2,125	13%	1%
Animal feed	9,835	1,042	6%	0%
Vegetables	8,205	443	5%	0%
Cocoa; beans, liquor	6,606	562	4%	52%
Candy, confections	4,191	589	3%	3%
Dairy products	3,592	406	2%	0%
Non-alcoholic beverages	2,051	190	1%	0%
Grenadine, syrups	2,012	127	1%	13%
Leaves, moss, pollen	1,929	192	1%	6%
Other	23,775	2,126	15%	
Total	155,015	13,365	100%	0.4%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Philadelphia, PA, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Philadelphia, PA, 2017

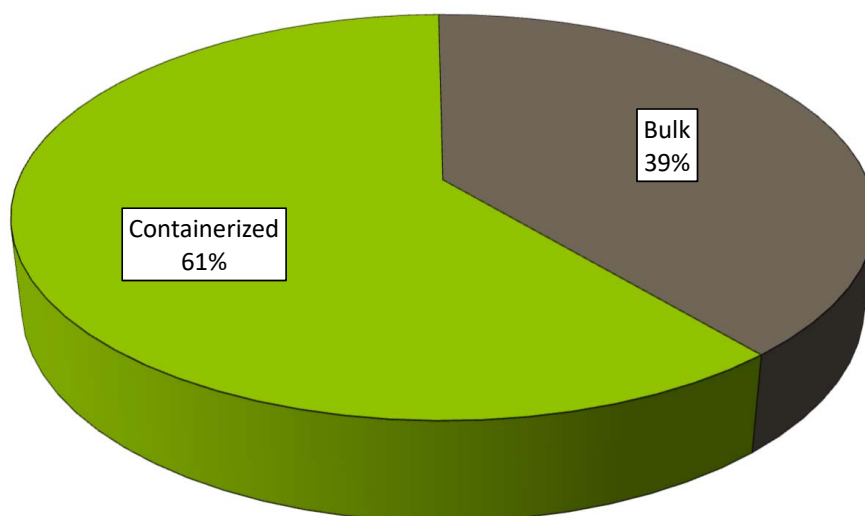
Shipping Line	Metric Tons	Share
Hamburg Sud	45,121	29%
Sealand	39,890	26%
Maersk	34,802	22%
Mediterranean Shipping	23,605	15%
Hapag Lloyd Line	6,627	4%
Other	5,322	3%
Total	155,367	100%

Source: IHS Markit/PIERS

Imports

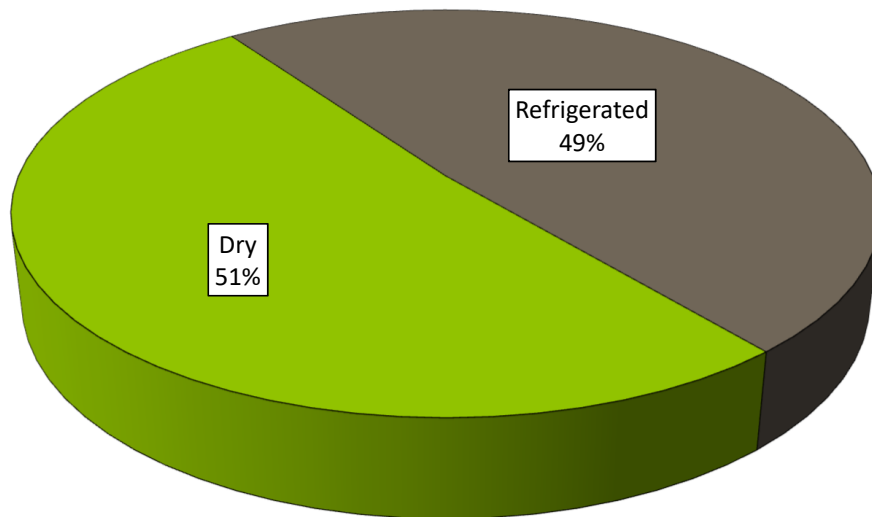
The Port of Philadelphia moved more than 3.5 million metric tons of agricultural import cargo in 2017 approximately 61 percent of these cargoes moved in containers. Nearly half, 49 percent, of the port's agricultural imports required refrigeration. Wine, meat, bananas, and other fruits were the top agricultural imports through Philadelphia. The port moved 42 percent of the total U.S. waterborne meat imports and 30 percent of waterborne wine imports. The port's top shipping lines were Mediterranean Shipping, Sealand, and Hamburg Sud. The top origin countries were Canada, Chile, Australia, and New Zealand.

U.S. Waterborne Agricultural Imports Through Philadelphia, PA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Philadelphia, PA, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Philadelphia, PA, 2017

Commodity	Metric Tons	Share	U.S. Share
Wine	1,093,194	31%	30%
Meat	433,273	12%	42%
Fruit	401,828	11%	17%
Bananas	286,931	8%	5%
Cocoa; beans, liquor	255,629	7%	63%
Sugar	168,079	5%	8%
Non-alcoholic beverages	107,761	3%	3%
Mandarin oranges	106,365	3%	39%
Pineapple	92,821	3%	8%
Oranges	58,021	2%	26%
Other	515,249	15%	
Total	3,519,151	100%	8%

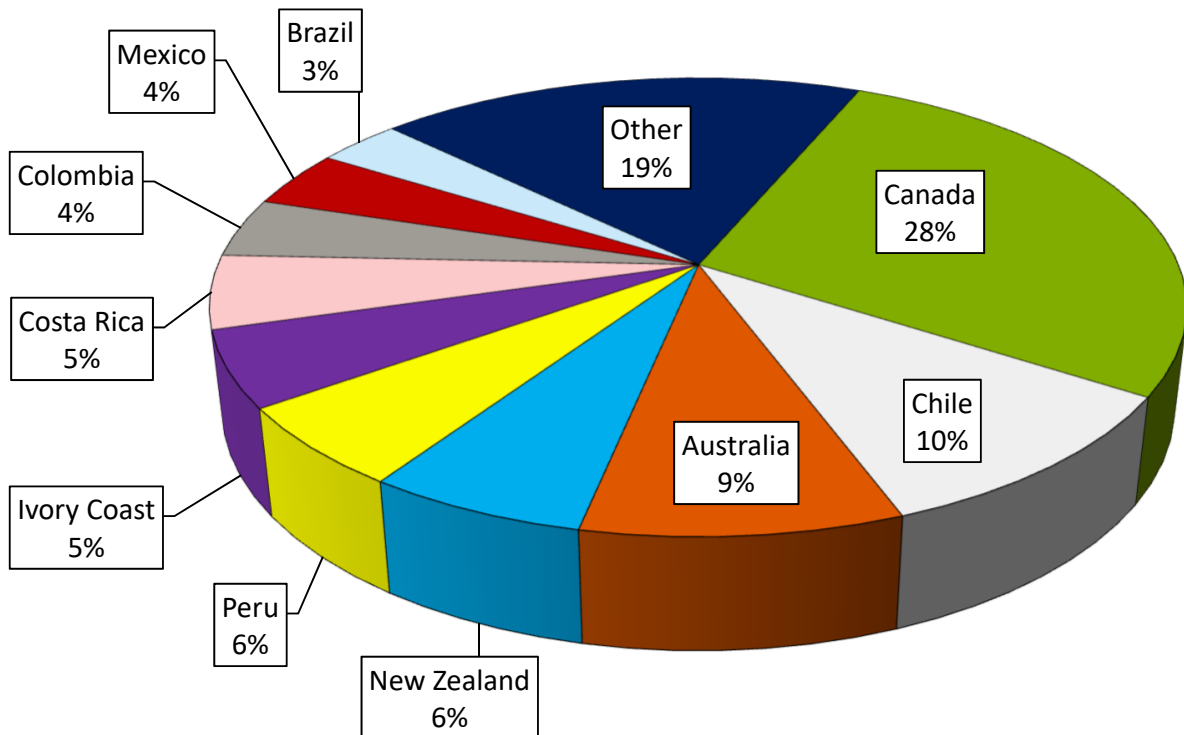
Source: IHS Markit/PIERS

U.S. Containerized Agricultural Imports Through Philadelphia, PA, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Meat	433,273	29,398	20%	42%
Fruit	382,051	36,378	18%	19%
Bananas	272,500	27,448	13%	6%
Non-alcoholic beverages	107,761	5,434	5%	4%
Mandarin oranges	104,483	8,736	5%	44%
Pineapple	89,465	8,462	4%	9%
Cocoa; beans, liquor	80,239	6,262	4%	35%
Wine	66,689	4,289	3%	3%
Sugar	63,552	3,795	3%	14%
Oranges	53,821	4,334	3%	29%
Other	490,181	38,663	23%	
Total	2,144,015	173,199	100%	6%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Philadelphia, PA, 2017



Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Imports
Through Philadelphia, PA, 2017**

Shipping Line	Metric Tons	Share
Mediterranean Shpg	616,909	18%
Sealand	412,892	12%
Hamburg Sud	398,531	11%
Thenamaris (Ship Management)	371,052	11%
American Eagle Tankers Inc Ltd	226,425	6%
Teekay	177,776	5%
Unicargo Trasnportges Mbh	159,831	5%
Maersk	153,510	4%
Delmonte Fruit	135,969	4%
Hapag Lloyd Line	131,418	4%
Other	734,838	21%
Total	3,519,151	100%

Source: IHS Markit/PIERS



Export/Import Profile

Corpus Christi, TX

The Port of Corpus Christi, TX, is located along the southern portion of the Texas coastline on the Gulf of Mexico, approximately 150 miles north of the U.S.-Mexico border. Corpus Christi's top commodities include petroleum and petroleum products, dry bulk chemicals, raw materials, and bulk grains. In 2016, bulk grain represented 4 percent of the total cargo moved through the port.

Exports

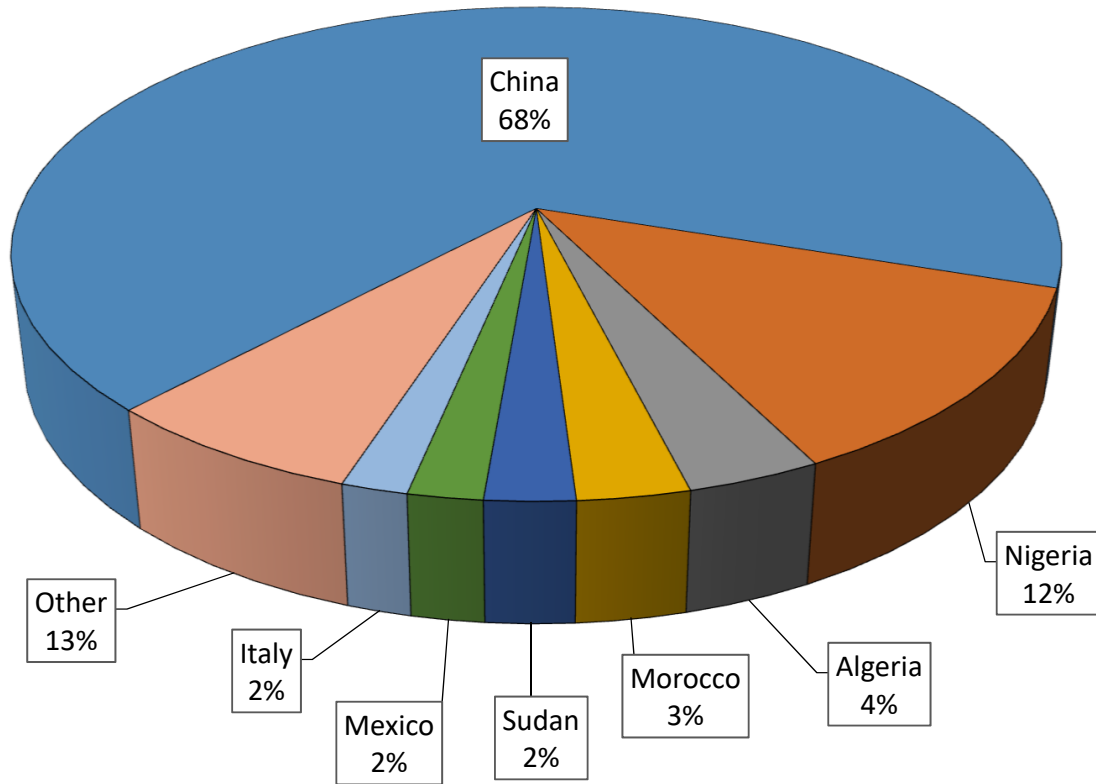
In 2017, the Port of Corpus Christi ranked 13th in the nation for total waterborne agricultural exports, moving about 3.2 million metric tons of cargo. All of these products moved in bulk vessels. Approximately 98 percent of the exports were bulk grains, grain products, and oilseeds. The top destination countries were China, Nigeria, and Algeria, which represented 84 percent of the agricultural exports moved through the port in 2017.

U.S. Waterborne Agricultural Exports Through Corpus Christi, TX, 2017

Commodity	Metric Tons	Share	U.S. Share
Bulk grains	2,865,476	89%	13%
Grain products, bread, flour	156,489	5%	0.4%
Soybeans	138,329	4%	0.3%
Other	60,636	2%	
Total	3,220,930	100%	2%

Source: IHS Markit/PIERS

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Corpus Christi, TX, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Corpus Christi, TX, 2017

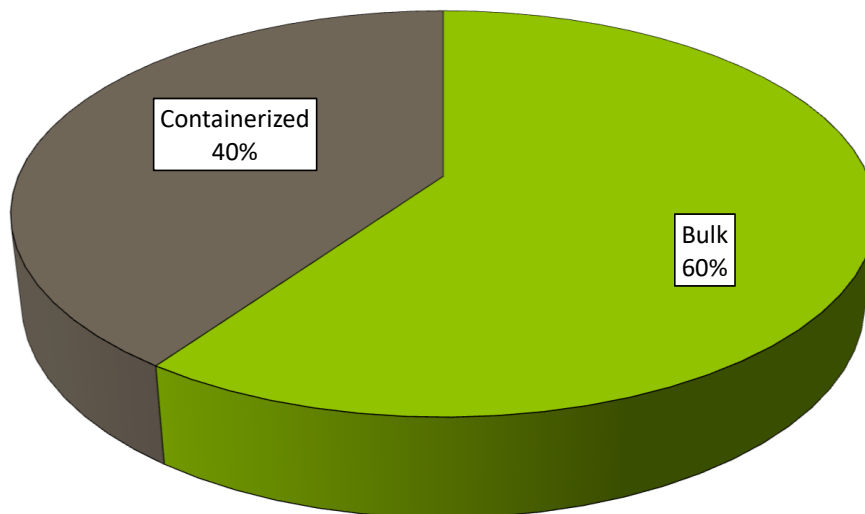
Shipping Line	Metric Tons	Share
Unknown Bulk Carriers	534,567	17%
ADM Shpg Co	409,935	13%
Atlantic Bulk Carriers Management Ltd	385,720	12%
Reederei "Nord" Klaus E Oldendorff Gmbh	257,681	8%
Ocean Longevity Shipping & Management Co Ltd	196,686	6%
Alassia Newships Management Inc	139,229	4%
K Line	118,113	4%
Other	1,178,999	37%
Total	3,220,930	100%

Source: IHS Markit/PIERS

Imports

The Port of Corpus Christi imported just over 1,000 metric tons of agricultural products in 2017; approximately 40 percent moved in containers. More than 43 percent of the port's shipments were chewing gum, followed by grocery items and soybeans at 20 percent each. National Shipping Company of Saudi Arabia and Navig8 Ship Management moved more than 71 percent of these agricultural imports from the top origin countries, India and Canada.

U.S. Waterborne Agricultural Imports Through Corpus Christi, TX, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Corpus Christi, TX, 2017

Commodity	Metric Tons	Share	U.S. Share
Chewing gum	441	43%	0.04%
Grocery items	200	20%	0.01%
Soybeans	200	20%	0.03%
Vegetable oils & shortenings	170	17%	0.1%
Other	12	1%	
Total	1,024	100%	0.0%

Source: IHS Markit/PIERS

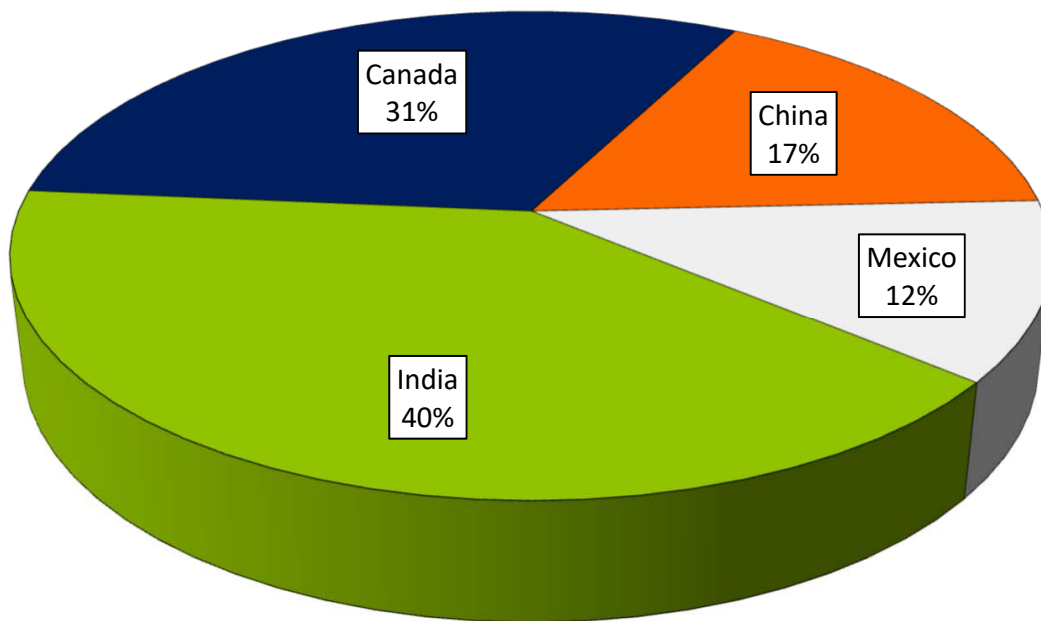
U.S. Containerized Waterborne Agricultural Imports Through Corpus Christi, TX, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Grocery items	200	18	49%	0.01%
Soybeans	200	18	49%	0.05%
Vegetables	12	2	3%	0.00%
Total	412	37	100%	0.00%

Source: Port Import Export Reporting Service (PIERS)

*Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Corpus Christi, TX, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Imports Through Corpus Christi, TX, 2017

Shipping Line	Metric Tons	Share
National Shpg Co of Saudi Arabia	412	40%
Navig8 Ship Management PTE, LTD	320	31%
Grieg Start Shpg AS	170	17%
Eiger Shpg Ltd of Gibraltar	121	12%
Other	-	0%
Total	1,024	100%

Source: IHS Markit/PIERS



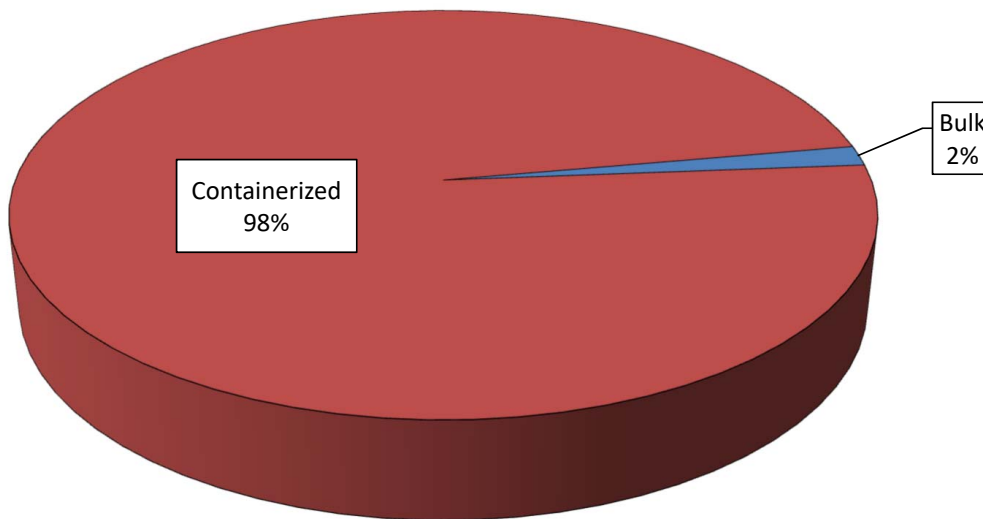
Wilmington, DE

The Port of Wilmington, DE, is located on the eastern seaboard at the confluence of the Delaware and Christina Rivers, 65 miles from the Atlantic Ocean. In 2017, the port handled about 362 vessels and total cargo tonnage of more than 5.2 million short tons. Wilmington is the top North American port for imports of fresh fruit, bananas, and juice concentrate. It also boasts the largest dock-side refrigerated complex in North America.

Exports

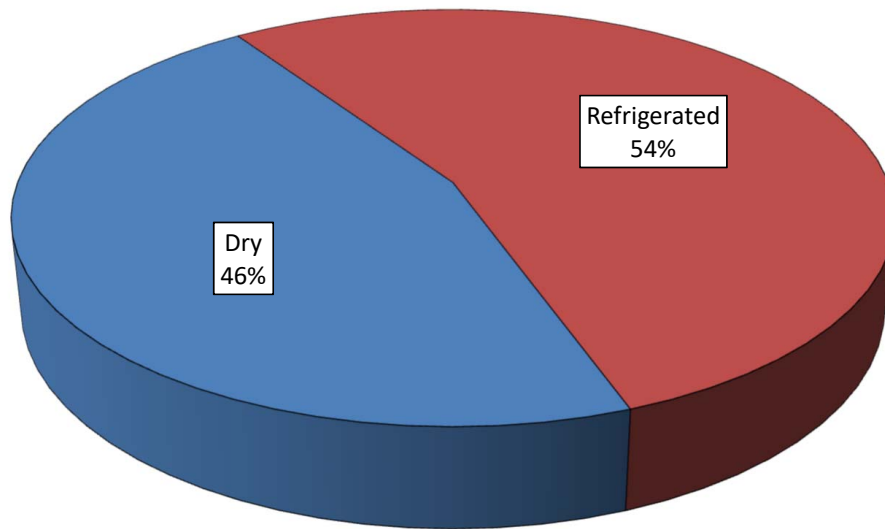
In 2017, the Port of Wilmington ranked 49th for waterborne agricultural exports moving approximately 19,000 metric tons of agricultural products. Approximately 98 percent of these cargoes moved in containers. Nearly 55 percent of the port’s agricultural exports were refrigerated. Prepared grocery items, vegetables, meat, and non-alcoholic beverages accounted for more than 70 percent of the port’s agricultural exports. The top shipping lines were Dole Ocean Liner Express, Bermuda International, and Maersk. The top destination markets were Costa Rica, Bermuda, and Honduras.

U.S. Waterborne Agricultural Exports Through Wilmington, DE, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Wilmington, DE, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Wilmington, DE, 2017

Commodity	Metric Tons	Share	U.S. Share
Grocery items	4,604	24%	0.1%
Vegetables	4,155	22%	0.2%
Meat	2,895	15%	0.1%
Non-alcoholic beverages	2,143	11%	0.2%
Fruit	880	5%	0.1%
Animal feed	762	4%	0.0%
Poultry	622	3%	0.0%
Vegetable oils	575	3%	0.1%
Grain products, bread, flour	556	3%	0.0%
Dairy products	358	2%	0.0%
Other	1,453	8%	
Total	19,004	100%	0.01%

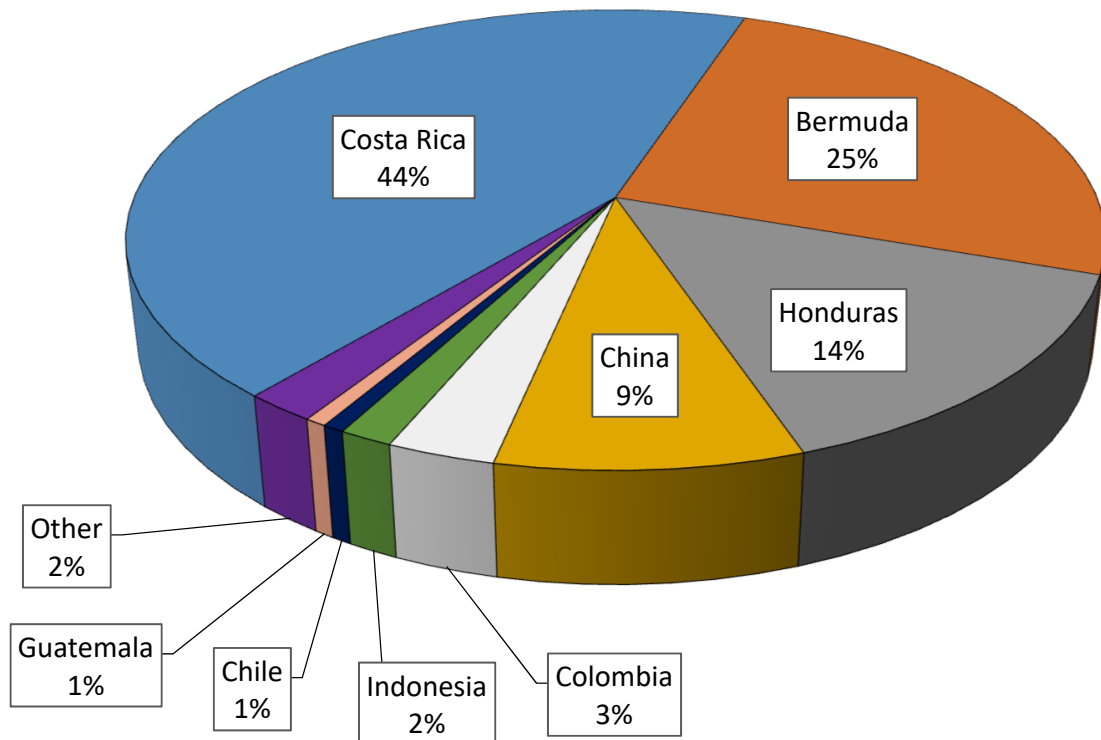
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Exports Through Wilmington, DE, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Grocery items	4,577	675	24%	0.1%
Vegetables	3,949	390	21%	0.2%
Meat	2,876	254	15%	0.1%
Non-alcoholic beverages	2,143	194	11%	0.3%
Fruit	880	86	5%	0.1%
Animal feed	762	64	4%	0.0%
Poultry	603	53	3%	0.0%
Vegetable oils	575	62	3%	0.3%
Grain products, bread, flour	556	52	3%	0.0%
Dairy products	358	34	2%	0.0%
Other	1,429	133	8%	
Total	18,709	1,995	100%	0.1%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Wilmington, DE, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Wilmington, DE, 2017

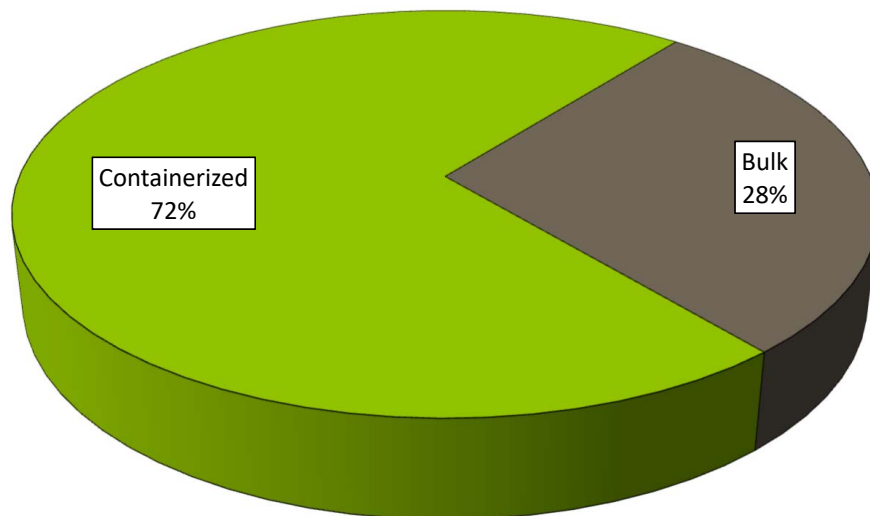
Shipping Line	Metric Tons	Share
Dole Ocean Liner Express	11,463	60%
Bermuda Intl Shpg Ltd	4,786	25%
Maersk	1,912	10%
Great White Fleet (Us) Ltd	422	2%
Other	421	2%
Total	19,004	100%

Source: IHS Markit/PIERS

Imports

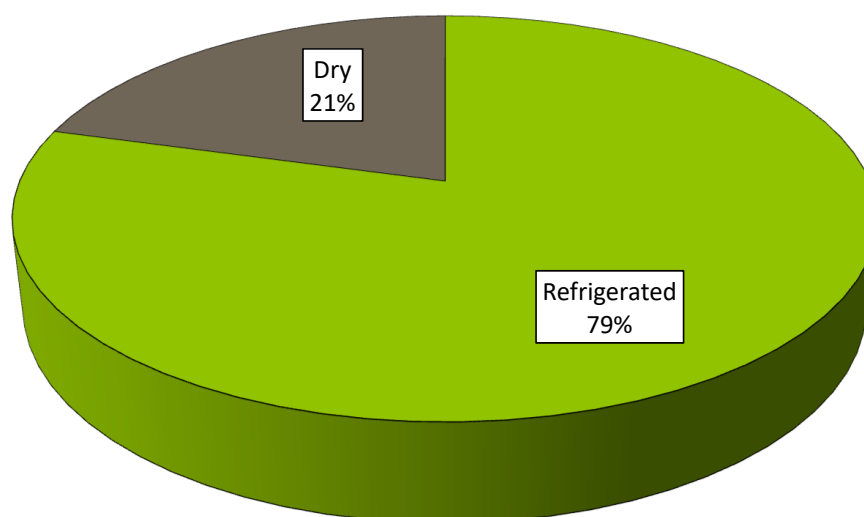
In 2017, the Port of Wilmington ranked 6th in the nation for waterborne agricultural imports and 7th for containerized agricultural imports. The port moved nearly 2.4 million metric tons of agricultural import cargo in 2017. About 72 percent of these products moved in containers. Nearly 80 percent of the port's agricultural imports required refrigeration. The top agricultural imports were bananas, wine, and pineapple. Dole Ocean Liner Express and Great White Fleet Ltd. were the top shipping lines. The top origin countries were Costa Rica, Guatemala, and Honduras.

U.S. Waterborne Agricultural Imports Through Wilmington, DE, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Wilmington, DE, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Wilmington, DE, 2017

Commodity	Metric Tons	Share	U.S. Share
Bananas	1,334,640	56%	25%
Wine	299,375	13%	8%
Pineapple	272,973	11%	23%
Fruit	147,206	6%	6%
Citrus fruit juices	88,329	4%	18%
Other	240,364	10%	
Total	2,382,887	100%	5%

Source: IHS Markit/PIERS

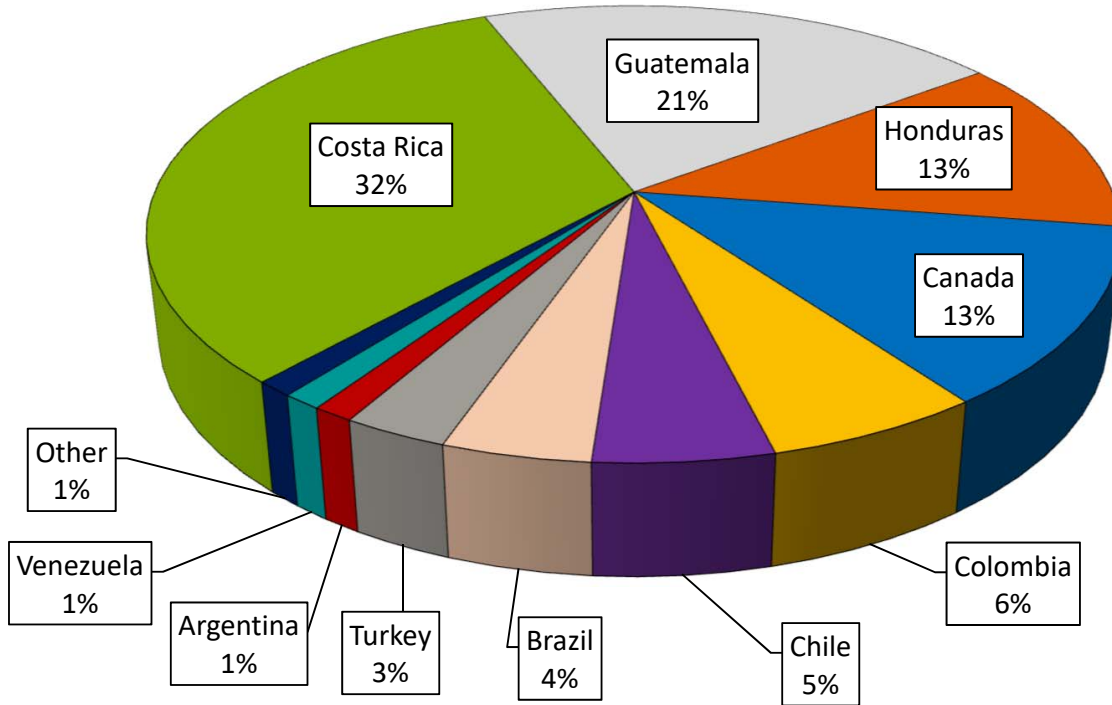
U.S. Containerized Waterborne Agricultural Imports Through Wilmington, DE, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Bananas	1,280,281	127,059	75%	28%
Pineapple	272,973	27,336	16%	26%
Fruit	54,870	5,437	3%	3%
Vegetables	40,391	3,803	2%	3%
Cassava flour, starch	17,276	1,599	1%	9%
Other	44,594	4,067	3%	
Total	1,710,385	169,302	100%	5%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

**Top Origin Countries for U.S. Waterborne Agricultural Imports
Through Wilmington, DE, 2017**



Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Imports
Through Wilmington, DE, 2017**

Shipping Line	Metric Tons	Share
Dole Ocean Liner Express	987,905	41%
Great White Fleet	744,163	31%
Unknown Bulk Carriers	138,874	6%
Trans Global Shipping	103,905	4%
Teekay Corporation	91,986	4%
Tiryaki Agro Gida Sanayi Ve Ticaret A S	70,424	3%
Other	245,630	10%
Total	2,382,887	100%

Source: IHS Markit/PIERS



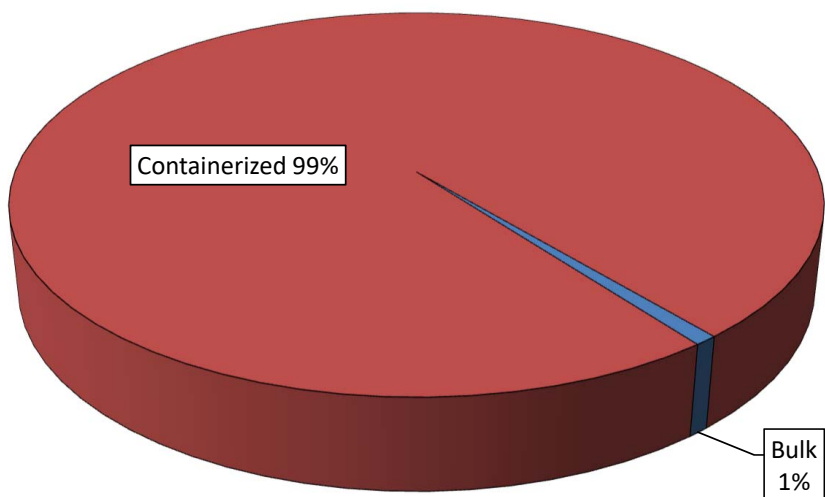
Port Everglades, FL

The Port of Port Everglades is located on the south eastern tip of Florida. The port is used heavily by the cruise ship industry and is a major petroleum storage and distribution hub for Florida and other east coast locations. Other cargo shipments move mainly in containers—more than 7.2 million tons of containerized cargo moved through Port Everglades in 2017. The top three sources of waterborne operating revenues for the port in 2017 were cruise (42 percent), petroleum (26 percent), and containerized cargos (25 percent).

Exports

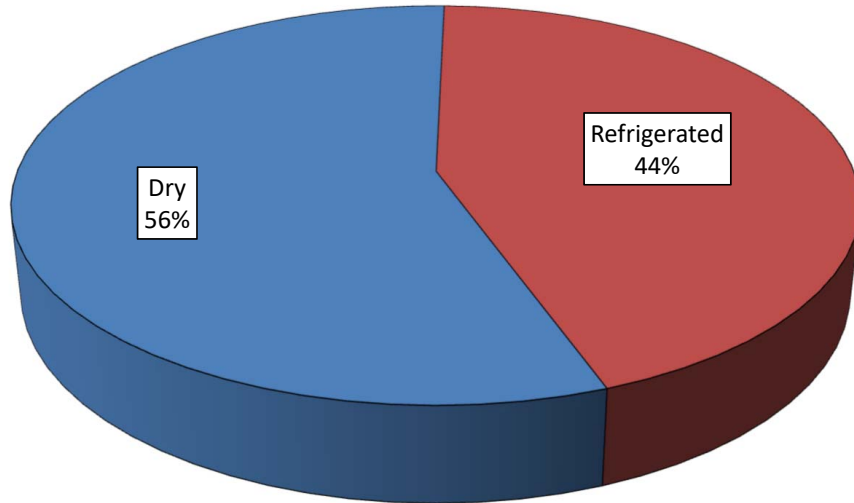
In 2017, Port Everglades ranked 19th in the nation for total waterborne agricultural exports, and 12th for containerized waterborne agricultural exports. The port exported nearly 725,000 metric tons of agricultural products in 2017—more than 99 percent were containerized. The top agricultural exports were prepared grocery items, poultry, non-alcoholic beverages, and meat; together these commodities represented about 81 percent of the port’s agricultural exports in 2017. The top destination markets included Cuba, Dominican Republic, and the Cayman Islands. The top shipping lines were Crowley Liner Service and King Ocean Services, representing 60 percent of the port’s agricultural export traffic.

U.S. Waterborne Agricultural Exports Port Everglades, FL, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Port Everglades, FL, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Port Everglades, FL, 2017

Commodity	Metric Tons	Share	U.S. Share
Grocery items	390,770	54%	12%
Poultry	102,052	14%	4%
Non-alcoholic beverages	80,720	11%	8%
Meat	17,479	2%	1%
Fruit	12,463	2%	1%
Animal feed	10,962	2%	0%
Beer, ale	10,786	1%	3%
Dairy products	8,266	1%	1%
Bitters, brandy, liquor	8,209	1%	5%
Vegetables	6,709	1%	0%
Other	76,476	11%	
Total	724,891	100%	0.5%

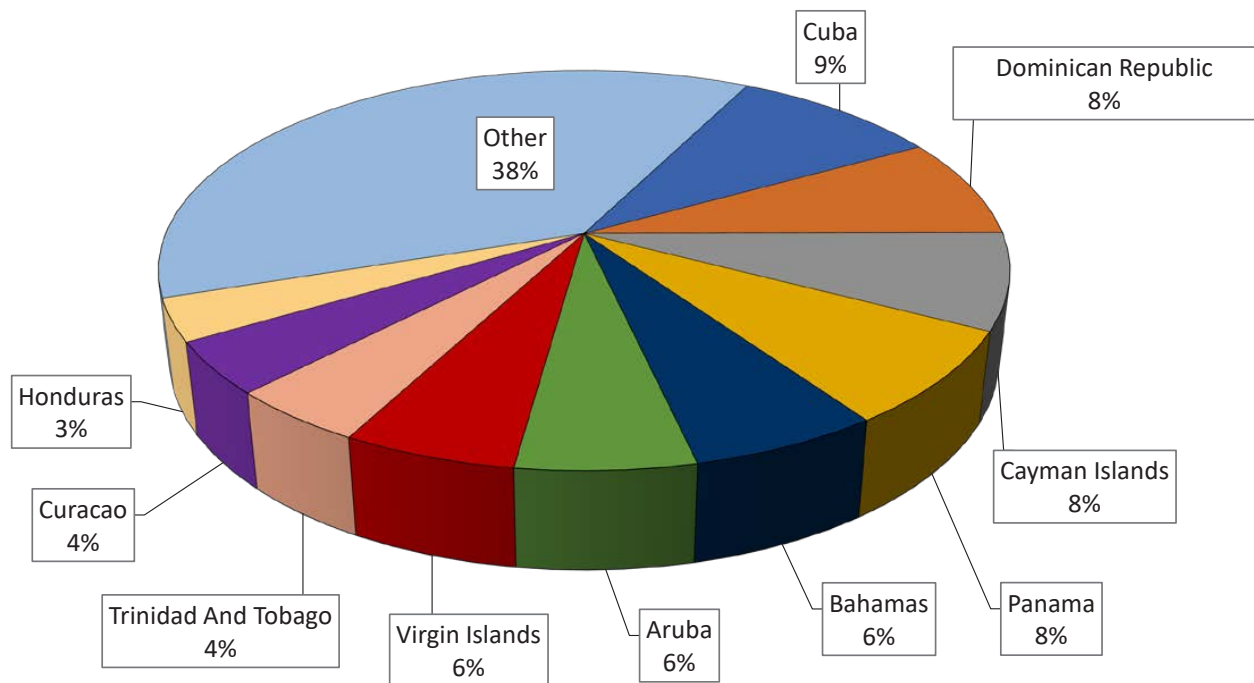
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Exports Through Port Everglades, FL, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Grocery items	387,980	45,699	54%	12%
Poultry	102,051	8,596	14%	4%
Non-alcoholic beverages	79,414	7,548	11%	10%
Meat	17,354	1,597	2%	1%
Fruit	12,462	1,473	2%	1%
Animal feed	10,782	1,015	1%	0%
Beer, ale	10,594	919	1%	2%
Dairy products	8,106	1,042	1%	1%
Bitters, brandy, liquor	7,961	824	1%	5%
Vegetables	6,701	675	1%	0%
Other	75,618	7,972	11%	
Total	719,023	77,360	100%	2%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Port Everglades, FL, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Port Everglades, FL, 2017

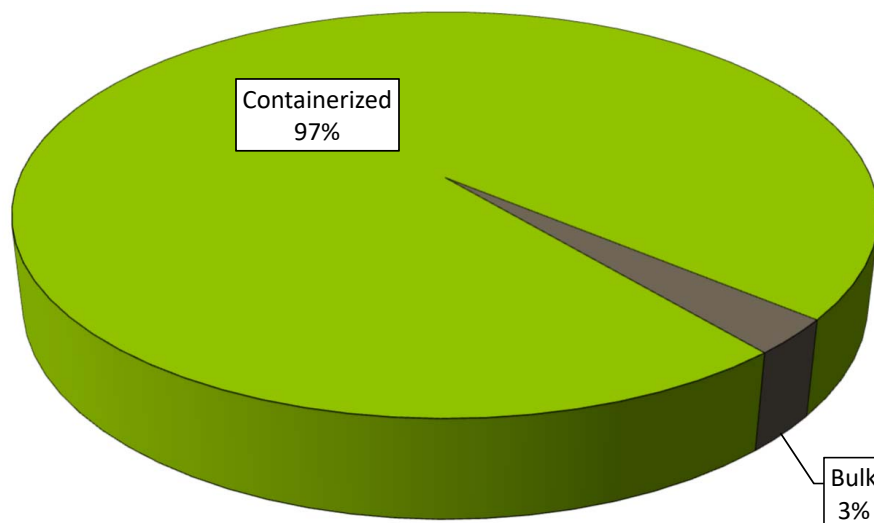
Shipping Line	Metric Tons	Share
Crowley Liner Service	269,957	37%
King Ocean Services	160,531	22%
Hybur Shpg (Hybur Ltd)	60,452	8%
Mediterranean Shipping	43,929	6%
Sealand	42,619	6%
Seaboard Marine	37,738	5%
Seacor Island Lines LLC	34,192	5%
Hamburg Sud	25,876	4%
Great White Fleet (Us) Ltd	10,503	1%
Compania Chilena De Navegacion Interocean	8,675	1%
Other	30,421	4%
Total	724,891	100%

Source: IHS Markit/PIERS

Imports

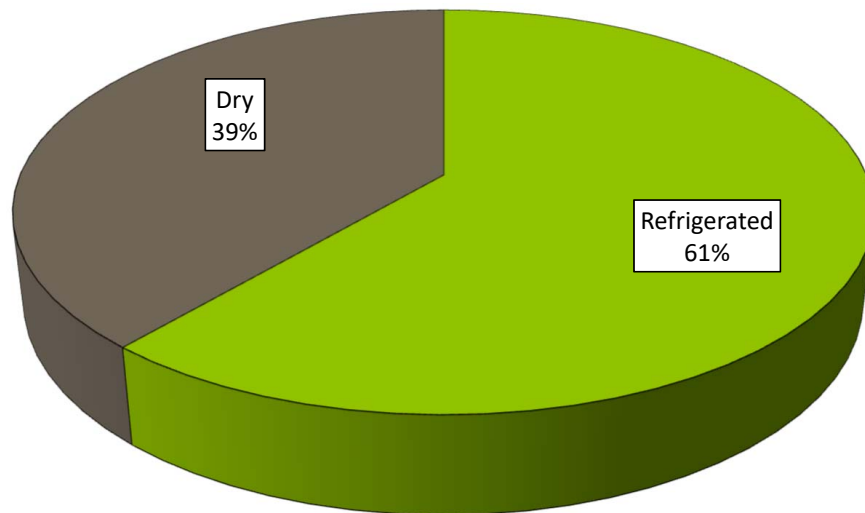
In 2017, Port Everglades ranked 11th in the nation for total waterborne agricultural imports and 8th for containerized agricultural imports. The port imported more than 1.5 million metric tons of agricultural products in 2017—more than 97 percent were containerized. More than 60 percent of agricultural imports moved through the port require refrigeration including some of the top commodities of fruit, bananas, vegetables, and non-alcoholic beverages. The top origin markets were Guatemala, Honduras, and Costa Rica.

U.S. Waterborne Agricultural Imports Through Port Everglades, FL, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Port Everglades, FL, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Port Everglades, FL, 2017

Commodity	Metric Tons	Share	U.S. Share
Fruit	327,772	22%	14%
Bananas	286,854	19%	5%
Vegetables	129,513	9%	8%
Non-alcoholic beverages	120,016	8%	4%
Wine	81,078	5%	2%
Beer, ale	53,048	4%	3%
Pineapple	48,959	3%	4%
Chewing gum	42,500	3%	4%
Grocery items	42,241	3%	2%
Frozen fish	30,229	2%	3%
Other	342,724	23%	
Total	1,504,935	100%	3%

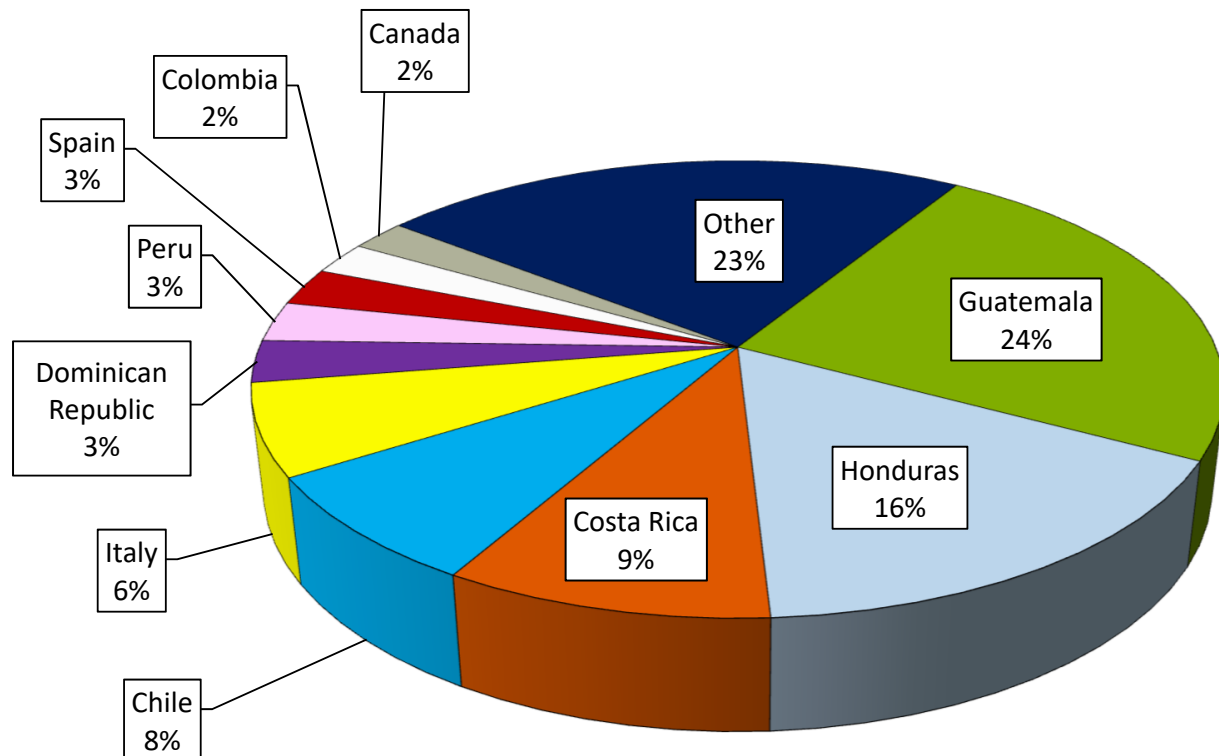
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Imports Through Port Everglades, FL, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Fruit	327,772	33,681	22%	16%
Bananas	286,854	27,237	20%	6%
Vegetables	129,512	13,815	9%	9%
Non-alcoholic beverages	120,016	9,813	8%	4%
Wine	81,078	7,157	6%	4%
Beer, ale	53,048	4,253	4%	3%
Pineapple	48,959	4,444	3%	5%
Grocery items	41,914	5,799	3%	2%
Frozen fish	30,229	2,915	2%	3%
Candy, confections	23,076	2,620	2%	3%
Other	319,560	30,892	22%	
Total	1,462,019	142,627	100%	4%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Port Everglades, FL, 2017



Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Imports
Through Port Everglades, 2015**

Shipping Line	Metric Tons	Share
Crowley Liner Service	342,540	23%
Great White Fleet	226,209	15%
Mediterranean Shpg	213,756	14%
Agriculture Investment Export Inc	130,474	9%
Hapag Lloyd Line	116,450	8%
King Ocean Services	110,279	7%
Naviera InterAmericana Nav	89,875	6%
Dole Ocean Liner Express	69,733	5%
Maersk	63,261	4%
Flota Petrolera Ecuatoriana	32,660	2%
Other	109,698	7%
Total	1,504,935	100%

Source: IHS Markit/PIERS



Export/Import Profile

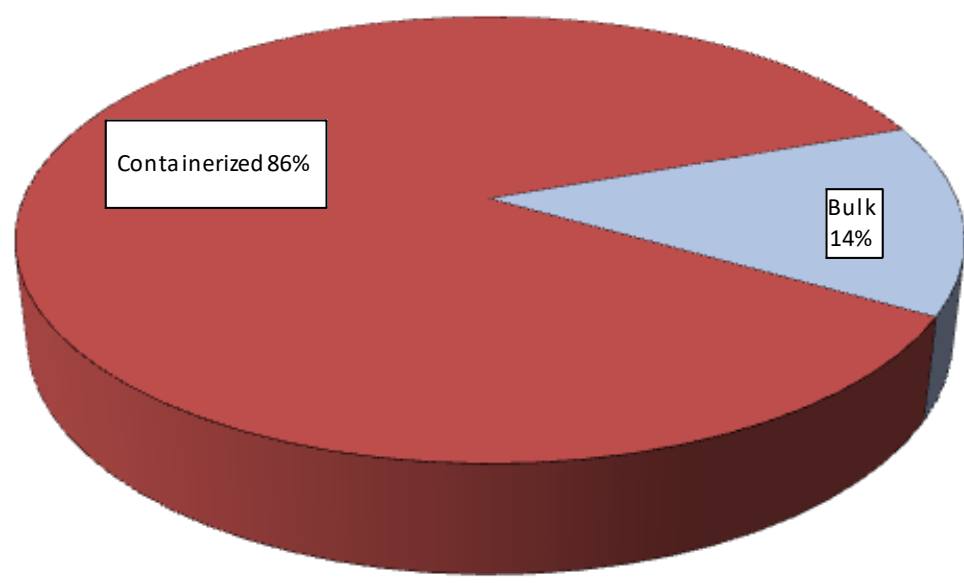
Baltimore, MD

The Port of Baltimore, MD, is located in the Mid-Atlantic region of the United States. Of the East Coast ports, Baltimore is in closest proximity to the Midwest region, which allows it to serve the agricultural heartland with necessary imports and access to export markets. The port handles approximately 38 million tons of cargo annually in total and specializes in roll-on/roll-off transportation for farm and construction equipment as well as automobile trade. Each year, more than 2,000 cargo vessels and cruise ships call on the Port of Baltimore.

Exports

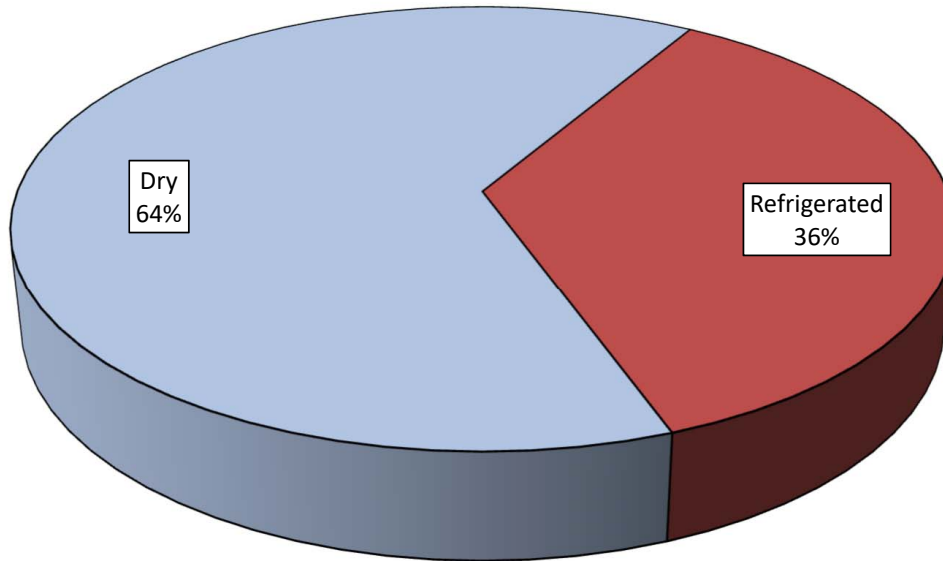
In 2017, the Port of Baltimore ranked 29th in the nation for waterborne agricultural exports, moving more than 213,000 metric tons of agricultural products. Approximately 86 percent of these cargoes moved in containers. The commodities with the largest volume were meat, representing 18 percent and prepared grocery items representing 17 percent of the port's agricultural exports. The top shipping lines included Hapag Lloyd and Evergreen; the top destination markets were Colombia, Israel, Chile and Taiwan.

U.S. Waterborne Agricultural Exports Through Baltimore, MD, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Baltimore, MD, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Baltimore, MD, 2017

Commodity	Metric Tons	Share	U.S. Share
Meat	37,628	18%	1%
Grocery items	35,247	17%	1%
Soybeans	31,078	15%	0%
Poultry	23,248	11%	1%
Grain products, bread, flour	19,505	9%	0%
Animal feed	9,968	5%	0%
Bulbs and seeds	7,705	4%	1%
Dairy products	4,766	2%	1%
Candy, confections	4,018	2%	1%
Non-alcoholic beverages	3,986	2%	0%
Other	36,148	17%	
Total	213,299	100%	0.1%

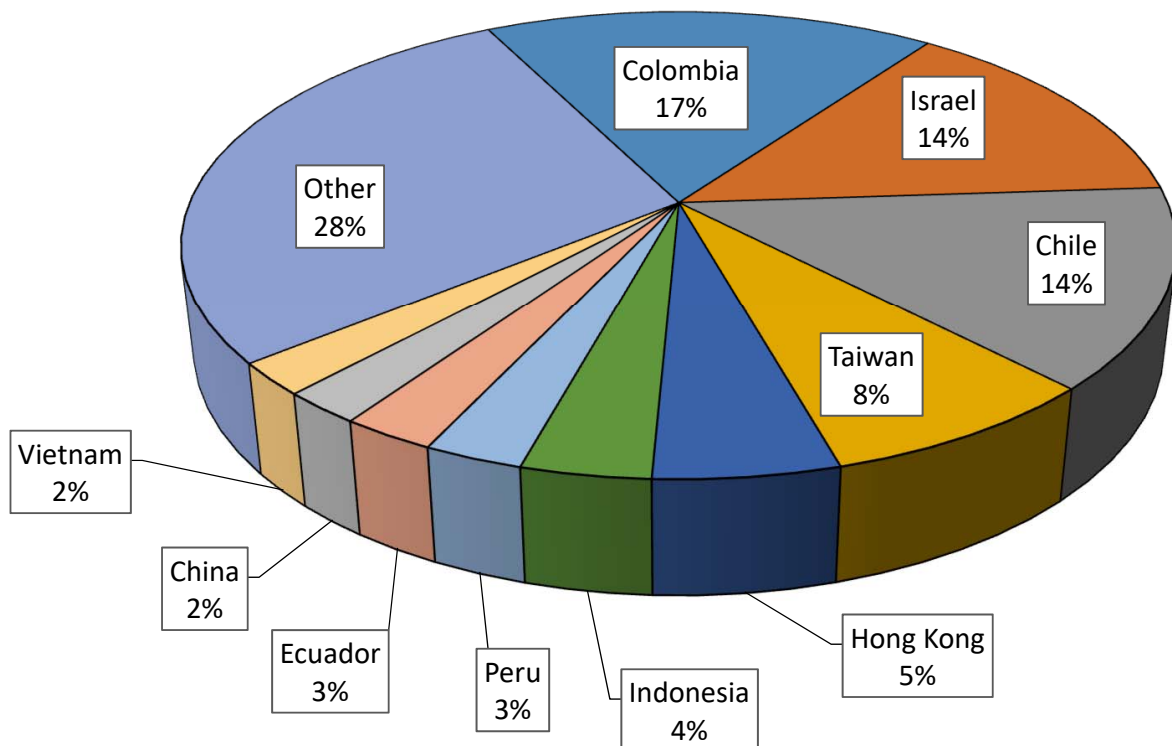
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Exports Through Baltimore, MD, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Meat	37,628	2,882	20%	1%
Grocery items	35,049	4,138	19%	1%
Poultry	23,174	1,776	13%	1%
Soybeans	19,070	1,400	10%	1%
Animal feed	9,402	927	5%	0%
Bulbs and seeds	7,705	451	4%	1%
Dairy products	4,763	363	3%	1%
Candy, confections	4,018	530	2%	3%
Non-alcoholic beverages	3,986	357	2%	0%
Grain products, bread, flour	3,594	326	2%	0%
Other	35,355	3,438	19%	
Total	183,746	16,588	100%	1%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Baltimore, MD, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Baltimore, MD, 2017

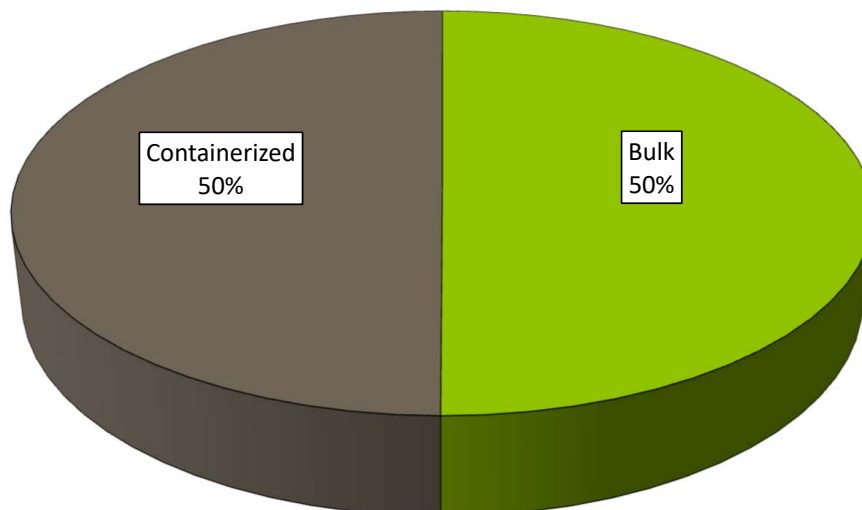
Shipping Line	Metric Tons	Share
Hapag Lloyd Line	37,862	18%
Evergreen	30,437	14%
Unknown Bulk Carriers	27,907	13%
Hamburg Sud	26,526	12%
Maersk	25,805	12%
Mediterranean Shipping	25,159	12%
Compania Chilena De Navegacion Interocean	22,102	10%
CMA-CGM	6,319	3%
Atlantic Container Line	4,509	2%
MOL	1,142	1%
Other	5,530	3%
Total	213,299	100%

Source: IHS Markit/PIERS

Imports

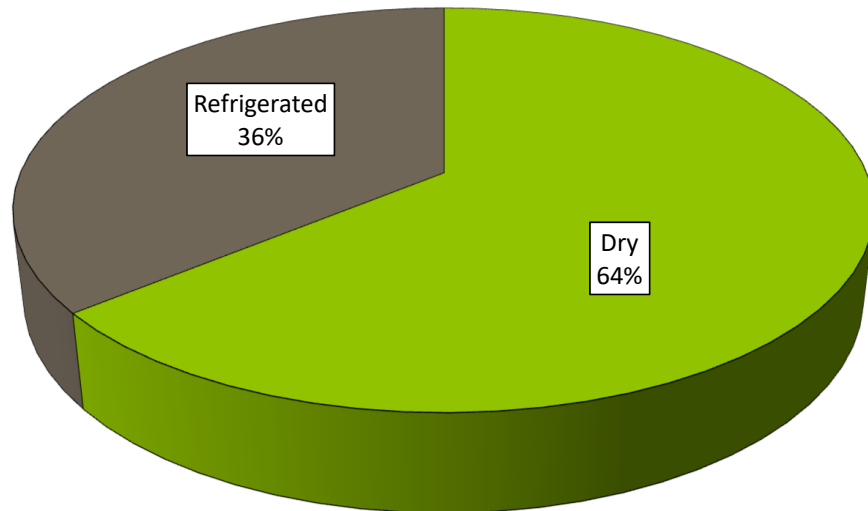
The Port of Baltimore moved nearly 2 million metric tons of agricultural import cargo in 2017. About 50 percent of these cargoes moved in containers. The top agricultural import was sugar representing more than 26 percent of the port's agricultural imports in 2017, and 23 percent of the total U.S. waterborne sugar imports for the year. The port's top shipping lines included Mediterranean Shipping, Dampskibsselskabet Norden, and Maersk; the top origin countries were Brazil, Belgium, and Guatemala.

U.S. Waterborne Agricultural Imports Through Baltimore, MD, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Baltimore, MD, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Baltimore, MD, 2017

Commodity	Metric Tons	Share	U.S. Share
Sugar	509,174	26%	23%
Coffee	283,448	14%	12%
Soybeans	179,495	9%	31%
Beer, ale	115,546	6%	6%
Molasses, treacle	98,836	5%	14%
Non-alcoholic beverages	58,566	3%	2%
Grocery items	54,045	3%	3%
Vegetables	53,222	3%	3%
Rice	50,306	3%	5%
Dextrose, glucose	41,744	2%	27%
Other	540,775	27%	
Total	1,985,159	100%	4%

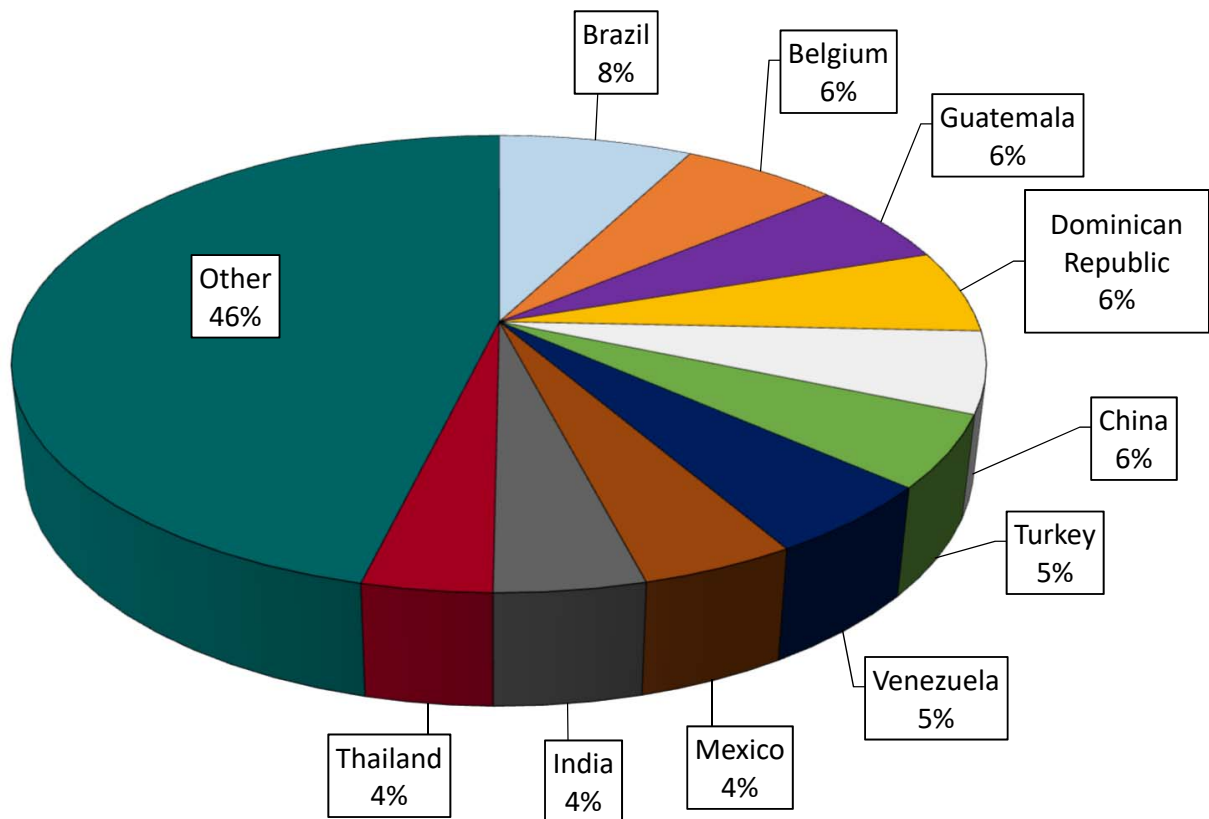
Source: IHS Markit/PIERS

U.S. Containerized Waterborne Agricultural Imports Through Baltimore, MD, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Beer, ale	115,546	9,420	12%	6%
Coffee	101,148	5,497	10%	6%
Soybeans	80,690	4,010	8%	21%
Non-alcoholic beverages	58,566	3,775	6%	2%
Grocery items	50,684	5,079	5%	3%
Rice	50,306	3,932	5%	5%
Vegetables	43,860	3,850	4%	3%
Herbs & spices	36,688	3,181	4%	7%
Candy, confections	35,434	3,355	4%	5%
Wine	33,364	3,345	3%	2%
Other	385,203	28,879	39%	
Total	991,489	74,322	100%	3%

Source: IHS Markit/PIERS
 *Twenty-foot equivalent unit (TEU)

Top Origin Countries for U.S. Waterborne Agricultural Imports Through Baltimore, MD, 2017

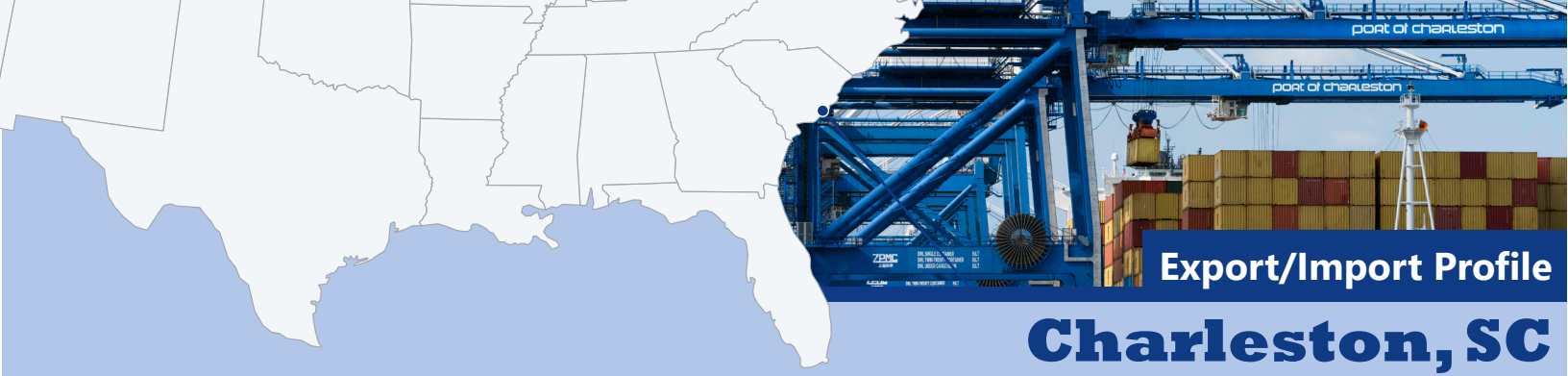


Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Imports
Through Baltimore, MD, 2015**

Shipping Line	Metric Tons	Share
Mediterranean Shpg	415,007	21%
Dampskibsselskabet Norden	251,798	13%
Maersk	217,269	11%
Evergreen	128,270	6%
Clipper Bulk Shpg	126,220	6%
Cargill Intl	94,496	5%
Hamburg Sud	78,956	4%
Hapag Lloyd Line	72,625	4%
Navieras Ultragas Ltda	63,676	3%
Unknown Bulk Carriers	63,263	3%
Other	473,580	24%
Total	1,985,159	100%

Source: IHS Markit/PIERS



Export/Import Profile

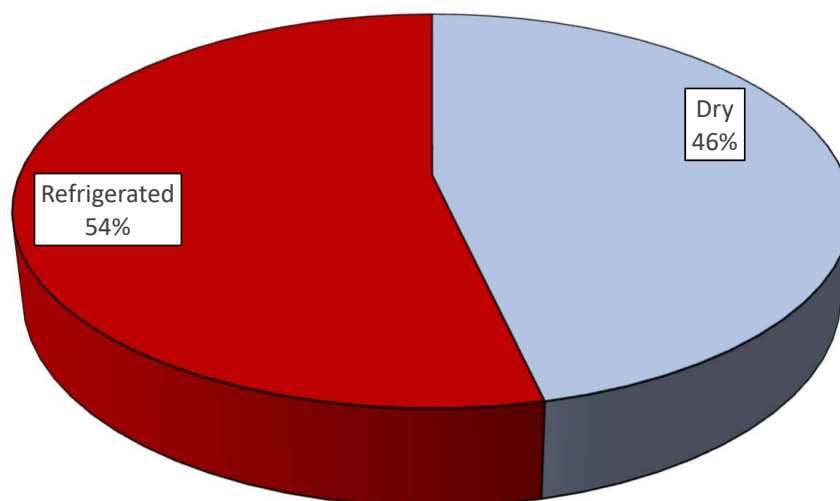
Charleston, SC

The Port of Charleston is located along the U.S. Eastern Seaboard in the State of South Carolina. The Charleston Customs district ranks as the nation's eighth largest in dollar value of international shipments, with cargo valued at nearly \$7 billion in 2017. The Port handles mainly containerized cargoes; in 2017 it handled 2.18 million twenty-foot-equivalent units. The top commodities across Charleston docks include lumber and wood products, agricultural goods, paper and paperboard products, and auto parts.

Exports

The Port of Charleston moved more than 1.2 million metric tons of agricultural products in 2017, more than 99 percent of which were containerized. Approximately 54 percent of the port's agricultural exports required refrigeration such as the top commodities poultry and meat. Around 41 percent of the U.S. waterborne exports of bourbon moved through the Port of Charleston in 2017. The top destination countries were China, Indonesia, Taiwan, and Colombia. The top carriers were Maersk, Mediterranean Shipping, MOL, and Evergreen; together, these four carriers held 55 percent of the market share for exports through Charleston in 2017.

U.S. Waterborne Agricultural Exports Charleston, SC, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Exports Through Charleston, SC, 2017

Commodity	Metric Tons	Share	U.S. Share
Poultry	299,006	25%	12%
Meat	288,288	24%	11%
Grocery items	121,503	10%	4%
Animal feed	100,055	8%	1%
Soybeans	80,222	7%	0.2%
Bourbon, Scotch	56,150	5%	41%
Cotton	50,433	4%	3%
Vegetables	30,709	3%	2%
Bitters, brandy, liquor	24,734	2%	15%
Beer, ale	24,468	2%	6%
Other	127,377	11%	
Total	1,202,945	100%	1%

Source: IHS Markit/PIERS

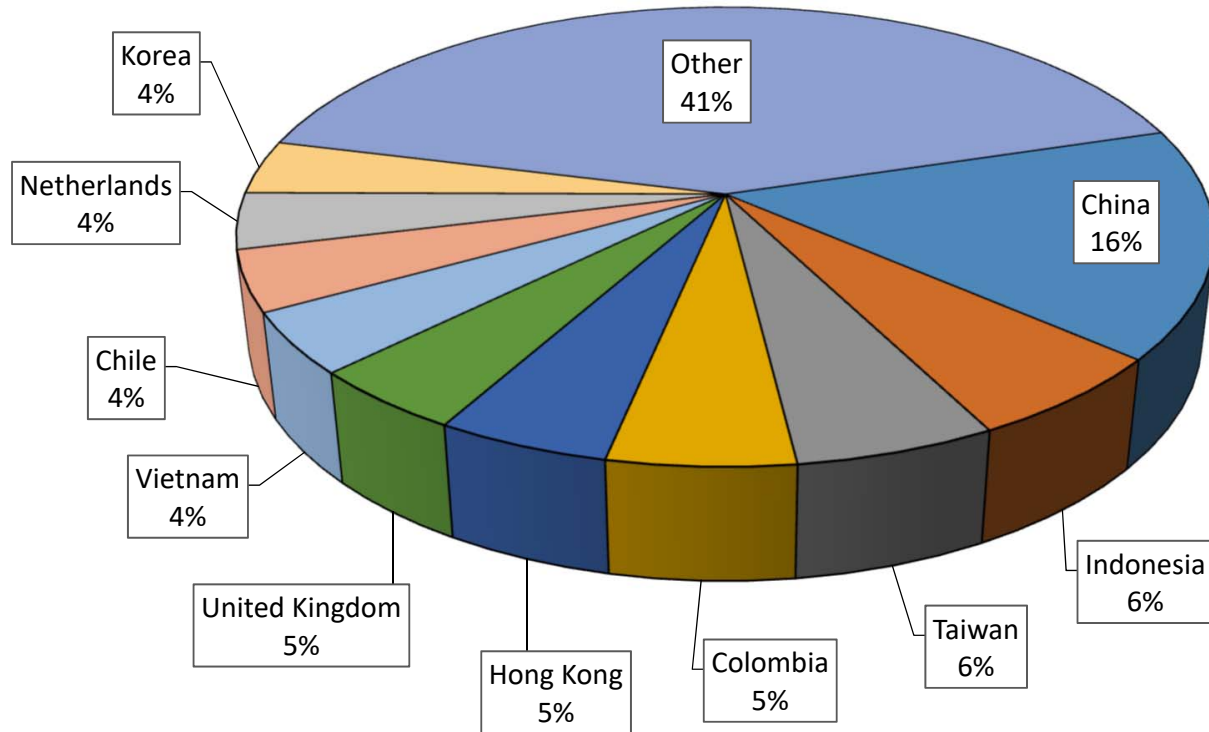
U.S. Containerized Waterborne Agricultural Exports Through Charleston, SC, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Poultry	298,613	22,395	25%	13%
Meat	287,925	21,080	24%	11%
Grocery items	121,463	12,177	10%	4%
Animal feed	100,011	8,331	8%	1%
Soybeans	80,182	6,576	7%	2%
Bourbon, Scotch	55,999	4,861	5%	41%
Cotton	50,394	5,037	4%	3%
Vegetables	30,111	2,768	3%	2%
Bitters, brandy, liquor	24,725	1,837	2%	16%
Beer, ale	24,468	2,117	2%	6%
Other	127,082	11,313	11%	
Total	1,200,973	98,490	100%	3%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

Top Destination Countries for U.S. Waterborne Agricultural Exports Through Charleston, SC, 2017



Source: IHS Markit/PIERS

Top Shipping Lines Moving U.S. Waterborne Agricultural Exports Through Charleston, SC, 2017

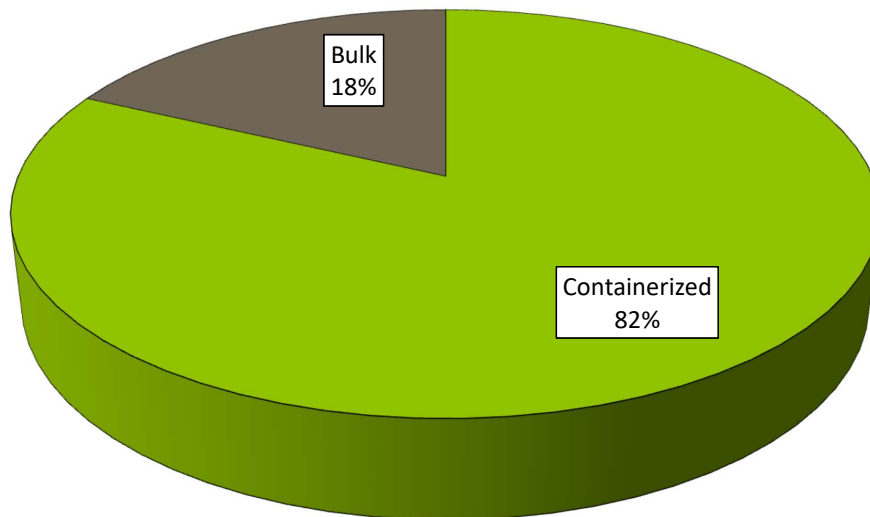
Shipping Line	Metric Tons	Share
Maersk	231,886	19%
Mediterranean Shipping	183,261	15%
MOL	129,023	11%
Evergreen	125,412	10%
CMA-CGM	105,677	9%
Hamburg Sud	91,663	8%
Hapag Lloyd Line	67,330	6%
NYK Line	55,718	5%
COSCO	55,272	5%
OOCL	49,955	4%
Other	107,747	9%
Total	1,202,945	100%

Source: IHS Markit/PIERS

Imports

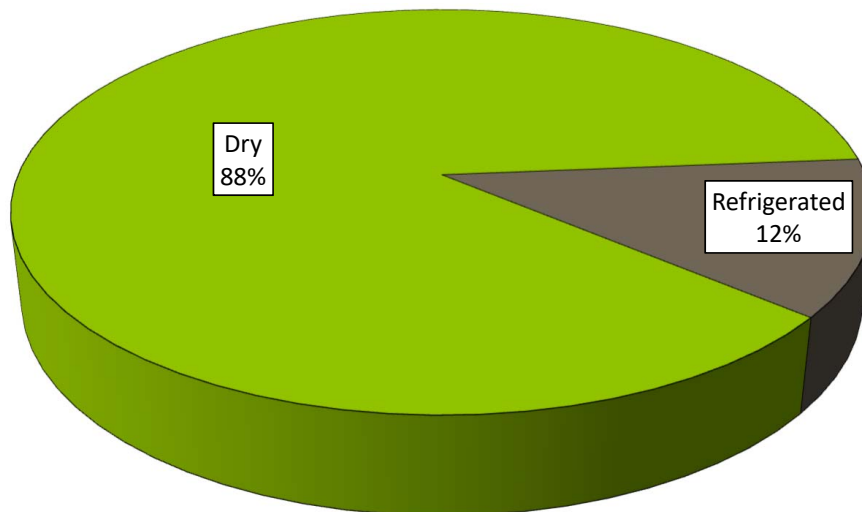
The Port of Charleston moved nearly 530,000 metric tons of agricultural imports in 2017; more than 82 percent of which were containerized. The top commodities were coffee, palm oil, vegetables, and wine from the top origin countries of Indonesia, China, and Colombia. The top carriers were Mediterranean Shipping, Hamburg Sud, and Koyo Kaium Co, Ltd; together these three carriers held 44 percent of the market share for agricultural imports through Charleston in 2017.

U.S. Waterborne Agricultural Imports Through Charleston, SC, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Charleston, SC, 2017



Source: IHS Markit/PIERS

U.S. Waterborne Agricultural Imports Through Charleston, SC, 2017

Commodity	Metric Tons	Share	U.S. Share
Coffee	118,490	22%	5%
Palm oil	70,104	13%	7%
Vegetables	47,584	9%	3%
Wine	33,330	6%	1%
Gluten; dry	19,587	4%	11%
Animal feed	18,564	4%	6%
Non-alcoholic beverages	18,014	3%	1%
Meat	13,622	3%	1%
Beer, ale	13,486	3%	1%
Fish meal	12,526	2%	17%
Other	163,586	31%	
Total	528,892	100%	1%

Source: IHS Markit/PIERS

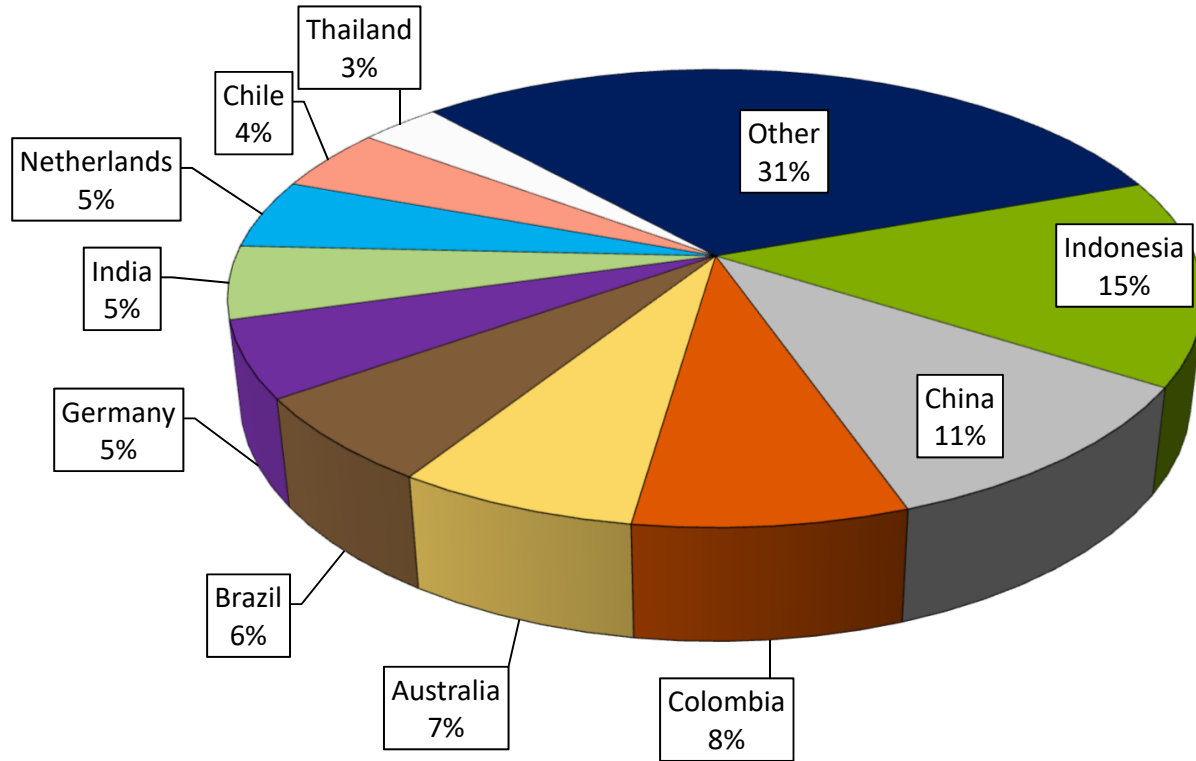
U.S. Containerized Waterborne Agricultural Imports Through Charleston, SC, 2017

Commodity	Metric Tons	*TEU	Share	U.S. Share
Coffee	118,490	6,790	27%	7%
Wine	33,330	3,430	8%	2%
Vegetables	23,287	1,982	5%	2%
Gluten, dry	19,587	1,063	5%	11%
Animal feed	18,494	1,432	4%	7%
Non-alcoholic beverages	18,014	1,343	4%	1%
Meat	13,622	1,011	3%	1%
Beer, ale	13,486	1,377	3%	1%
Fish meal	12,526	982	3%	17%
Bitters, spirits, liquor	11,039	1,112	3%	2%
Other	151,711	14,093	35%	
Total	433,586	34,617	100%	1%

Source: IHS Markit/PIERS

*Twenty-foot equivalent unit (TEU)

**Top Origin Countries for U.S. Waterborne Agricultural Imports
Through Charleston, SC, 2017**



Source: IHS Markit/PIERS

**Top Shipping Lines Moving U.S. Waterborne Agricultural Imports
Through Charleston, SC, 2017**

Shipping Line	Metric Tons	Share
Mediterranean Shpg	97,427	18%
Hamburg Sud	71,635	14%
Koyo Kaium Co LTD	64,223	12%
Hapag Lloyd Line	59,216	11%
Maersk	52,958	10%
CMA-CGM	25,986	5%
Evergreen	24,431	5%
Grieg Star Shpg	24,296	5%
Compania Chilena de Navegacion Interocean	12,525	2%
NYK Line	12,406	2%
Other	83,789	16%
Total	528,892	100%

Source: IHS Markit/PIERS



Term	Definition
Break-bulk	Heterogeneous cargo in various forms: pallets, barrels, bags, etc. All cargo that is not in bulk or containers.
Bulk cargo	Cargo not shipped in packages or containers, but shipped loose in the hold of a ship. Grain, coal, and sulfur are usually bulk cargo.
Container	A steel box, 8 feet wide by either 8 feet 6 inches or 9 feet 6 inches high, and either 20, 40, or 45 feet long, used for transporting dry or refrigerated goods. Shipping containers can be carried by—and transferred between—trucks, railcars, barges, and ships.
PIERS	The Port Import Export Reporting Service (PIERS) is a firm that collects data on U.S. international trade. < http://www.piers.com >
Project cargo	Project cargo can be defined in two ways: (1) A quantity of goods associated with a particular project—usually a construction project. It can include equipment or materials such as steel, lumber, or concrete; (2) A large and/or heavy piece of cargo, often unusually sized or shaped, that needs special handling during loading, transit, and unloading.
Roll on-Roll off	A type of ship designed for wheeled cargo that is driven on at the origin and off at the destination. Also referred to as “ro-ro.”
TEU	Twenty-foot equivalent unit, a standard shipping container size used in describing container ship capacity.

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