



Marine Department

Statistical Data Report For the Fiscal Year 2023

Statistical data related to waterway freight transport & passenger



September 2024

Statistical Data Report for the Fiscal Year 2023

(Statistical data related to waterway freight transport & passenger)

Executive Summary

STATISTICS ANNUAL REPORT

In the fiscal year 2024, data was compiled from the compilation of statistics on waterway freight transport and passengers throughout the fiscal year, summarizing the results of operations from the fiscal year 2014 - 2023 and trends in the data. The objective is to compile important conclusions of statistical data in each type of survey, including data statistics over the past 10 years. The summary of the results is as specified:



STATISTICS
Annual Report

PART 1 PERFORMANCE RESULTS FOR THE FISCAL YEAR 2023

◆ Freight Transport Statistics

- Waterway Freight Transport Statistics in the Chao Phraya and Pa Sak Rivers for the Year 2023
- Waterway Freight Transport Statistics in the Seaport Area for the Year 2023
- Waterway Freight Transport Statistics, Chiang Saen Customs for the Year 2023

◆ Passenger Density Data, collecting both the number of passengers & the number of boat trips for the Year 2023

- Passenger Density of Chao Phraya Express Boats
- Passenger Density of ferry
- Passenger Density of Saen Saep Canal Passenger Boats
- Passenger Density of MINE Smart Ferry in the Chao Phraya River
- Surveying data of Tourist Passenger Boats in the area of river & sea. Survey in the fiscal year 2024 (Data of 2023), it is a collection of the number of piers, the number of boat trips and the number of passengers.

◆ Pier Report

- Passenger Piers in the Chao Phraya River from Samut Prakan Province to Pathum Thani Province
- Piers that the Marine Department has completed construction in the Fiscal Year 2023

◆ Satisfaction and Dissatisfaction Data are divided into

➤ Satisfaction of Government Agencies, including;

- Central Government sector
- Regional Government Sector
- Navigation Supervision Sector

➤ Satisfaction with Passenger Boat Services, including;

- Chao Phraya Express Boats
- Saen Saep Canal Passenger Boats
- Ferry
- MINE Smart Ferry

➤ Satisfaction with Passenger Pier Users along the Chao Phraya River in the Bangkok Metropolitan Region

➤ Survey of Satisfaction with Water Transport/Port/Channel Users

PART 2 STATISTICS FOR THE FISCAL YEAR 2014 - 2023

◆ Statistics on Freight Transport Data for the Year 2014 – 2023, including;

- Waterway Freight Transport Statistics in the Chao Phraya and Pa Sak Rivers
- Waterway Freight Transport Statistics in the Seaport Area

◆ Passenger Density Data for the Year 2014 - 2023, including;

- Chao Phraya Express Boats
- Saen Saep Canal Passenger Boats
- Ferry
- MINE Smart Ferry
- Long Propellor Shaft Motorboat
- Phra Khanong Canal Boat
- Ban Pa Canal Boat

Remark: Long Propellor Shaft Motorboat, Phra Khanong Canal Boat for the Years 2015-2016 and 2018, were not surveyed, and Ban Pa Canal Boat was surveyed until the Fiscal Year 2014

◆ Passenger/Tourist Boat Data for the Year 2014-2023 divided into river and sea areas

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➤ Survey of Satisfaction with Water Transport/Port/Channel Users

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PART 1

Performance Results for the Fiscal Year 2023



Freight Transport Statistics

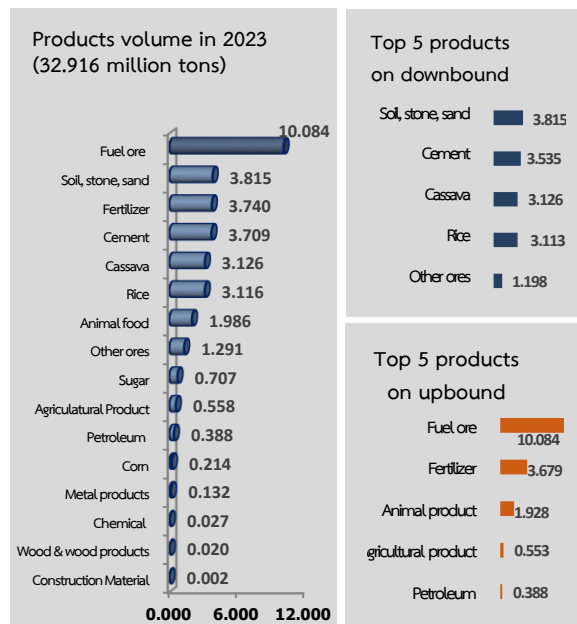
Statistical data

Waterway Freight Transport Statistics in the Chao Phraya and Pa Sak Rivers for the Year 2023

Statistics of freight transport data

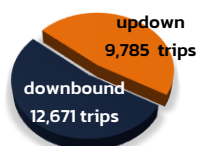
The purpose of collecting statistics of Waterway Freight Transport Statistics in the Chao Phraya and Pa Sak Rivers is to use the obtained data to increase the capacity of water transport management, to consider planning the development of water transport and to be consistent with the development of other forms of transport. Data collection of the number of vessels and the volume of goods in 2023, by collected data from entrepreneurs along the banks of the Chao Phraya and Pa Sak rivers. Operated by coordinating with operators to deliver data according to the survey form.

Data analysis results



The analysis results show that the total volume of freight transported in 2023 is approximately 32.916 million tons, using vessels to transport a total of 22,456 trips

Number of vessels in 2023 (22,456 trips)



The most transported product is fuel minerals, approximately 10.084 million tons, with the most transport on the route from Ko Sichang District, Chon Buri Province to Nakhon Luang District, Phra Nakhon Si Ayutthaya Province. The next 3 products with the lower transport volume are soil, stone, sand, fertilizer, and cement, divided into downbound and upbound trips as follows:

1 / Downbound vessels transport approximately 15.787 million tons of goods, using 12,671 cargo vessels. The transportation routes for goods include 40 routes with origins from three provinces: Ang Thong, Phra Nakhon Si Ayutthaya, and Pathum Thani.

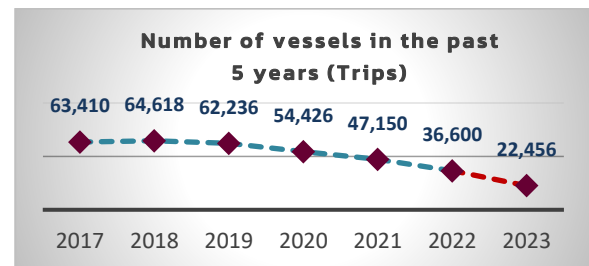
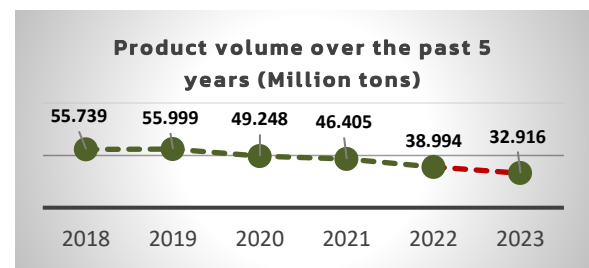
2 / Upbound vessels transport approximately 17.129 million tons of goods, using 9,785 cargo vessels. - The transportation routes for goods include 14 routes originating from seven provinces: Songkhla, Chon Buri, Rayong, Samut Prakan, Bangkok, Nonthaburi, and Phra Nakhon Si Ayutthaya.

3 / River routes for transportation

By consideration of the river routes used for goods transportation, there are 14 routes. The river route with the highest volume of goods transport is the route from the sea into the Chao Phraya River to the Pa Sak River. Approximately 7,688 million tons of goods were transported.

The main river used for goods transportation is the Pa Sak River, with an estimated transport volume of 22.199 million tons. The highest transported goods using the Pa Sak River are mineral fuels, approximately 10.084 million tons. The Chao Phraya River has a transport volume of approximately 10.717 million tons. The most transported goods are soil, stone, and sand, approximately 3.469 million tons.

4 / Trends in waterway freight transport



Statistical data

Waterway Freight Transport Statistics in the Seaport Area for the Year 2023

Statistical Data

Waterway Freight Transport
for the Year 2023

Foreign trade vessels

NUMBER OF VESSEL TRIPS

Cargo vessel 35,655 trips : Arrival 16,760 trips
: Departure 18,895 trips

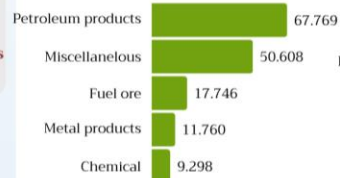
GOODS VOLUME (368.363 MILLION TONS)

: Arrival 181.439 million tons
: Departure 186.924 million tons

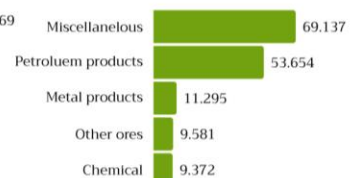
Volume of goods

Foreign trade vessels: Goods

Top 5 of arrival (million tons)



Top 5 of departure (million tons)



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NUMBER OF VESSEL TRIPS

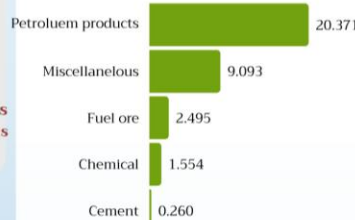
Cargo vessel 41,333 trips : Arrival 19,447 trips
: Departure 21,886 trips

GOODS VOLUME (73.593 MILLION TONS)

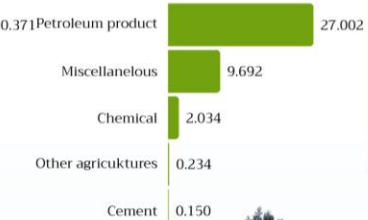
: Arrival 34.241 million tons
: Departure 39.352 million tons

Coastal trade vessels: Goods

Top 5 of arrival (million tons)



Top 5 of departure (million tons)



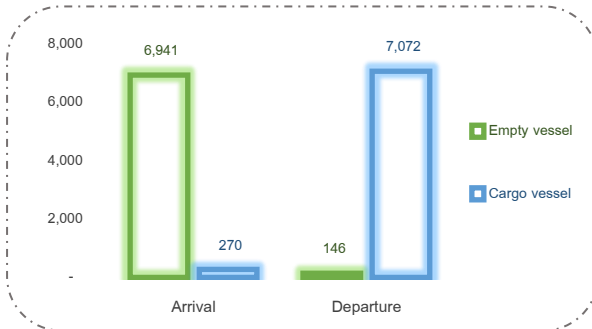
Statistical data

Waterway Freight Transport Statistics, Chiang Saen Customs for the Year 2023

Overview of waterway freight transport at Chiang Saen Customs in the Year 2023 found that the number of arrival and departure ships totaled 14,429, with a cargo volume of 454,449.11 tons, as summarized below:

Number of cargo vessels at Chiang Saen Customs

From the 14,429 arrival and departure vessels, 7,087 were empty-vessels (49.12 %) and 7,342 cargo vessels (50.88 percent) were classified as arrival and departure, as follows:

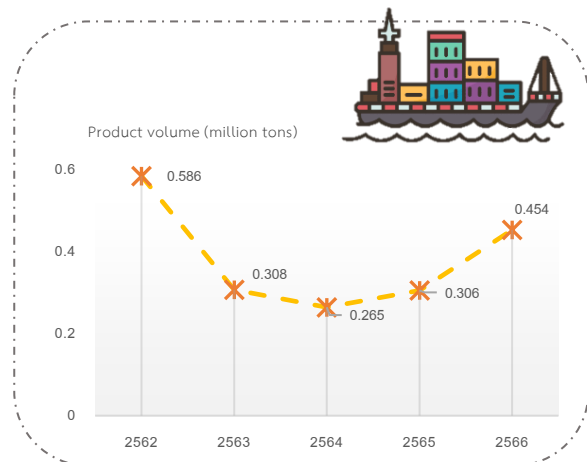
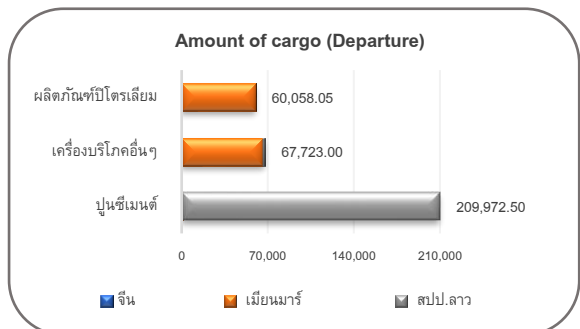
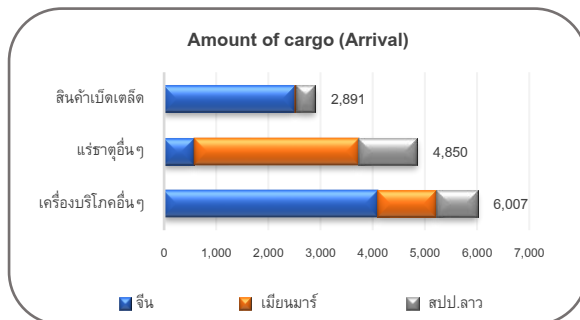


➤ **Arrival vessels** in total of 7,211, 6,941 were empty-vessels (96.26 %) and cargo vessels 270 (3.74 %)

➤ **Departure vessels** in total of 7,218, 146 were empty-vessels (3.14 %) and cargo vessels 7,072 (97.98 %)

2. The amount of cargo transported through Chiang Saen Customs

The total amount of cargos transported through Chiang Saen Customs was 454,449.11 tons, mostly transporting of the Cement type, in volume of 209,972.50 tons (46.20 %), followed by other consumer goods, in volume of 73,730.00 tons (16.22 %), and petroleum products, in volume of 60,058.05 tons (13.22 %). Considered as arrival and departure as follows:



➤ **Arrival** Total transport volume 20,637.50 tons, mostly were the other consumer goods in 6,007.00 tons (29.11 %), followed by other ores, 4,850.00 tons (23.50 %), and miscellaneous goods, 2,891.00 tons (14.01 %), mostly imported from China

➤ **Departure** Total transport volume 433,811.61 tons, mostly were cement in the volume of 209,972.50 tons (48.40 %), followed by other consumer goods at 67,723.00 tons (15.61 %) and petroleum products at 60,058.05 tons (13.84 percent), most of which were exported to the Lao PDR.

From the data analysis, it was found that most of the vessels arriving at the Chiang Saen Customs were empty vessels coming to receive cargo from Thailand, with most of the vessels being Laotian nationals coming to receive goods and transport them to the Lao PDR.

Passenger Density

The **passenger density survey** is a project that the Marine Department has planned to conduct continuously every year. The objective is to collect data on the number of passengers, the number of vessels, vessel trips, and the nature of the operator's business operations of the operators. The data will serve as a foundation for planning, and addressing issues in organizing the water transport system to ensure coordinate and be consistent with land transport. It will also be used to consider building a passenger pier that meets the standard to ensure safety for service users.



The passenger density survey in Bangkok and its vicinity includes:

- Passenger Density of Express Boats along the Chao Phraya River
- Passenger Density of Ferry
- Passenger Density of MINE Smart Ferry
- Passenger Density of Saen Saep Canal Boats



The tourist passenger boat survey was conducted by in coordination with officers from Marine Office branches to conduct interviews with tourist passenger boat pier operators both on rivers and seas, and sending corrected information back to the Statistics Division, Planning Bureau, to collect and analyze data on the number of piers, vessel routes, and number of passengers.



Passenger Density of

Express Boats along the Chao Phraya River for the Year 2023

	2023	Average per day	Percentage change (average/day)
Passengers	6,350,557 persons	17,447 persons/day	▲ Increased by 62.10%
Boat trips	49,491 trips	135 trips/day	▼ Decreased by 3.57%

Passenger data

Overview of average per day passengers in 2023 increased by 62.10 percent

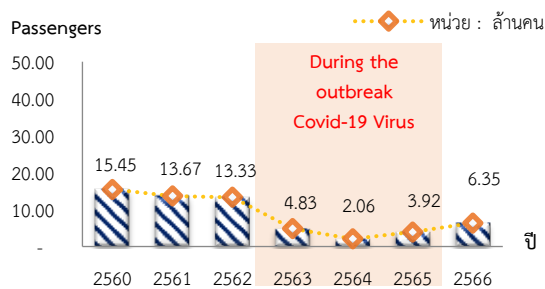
- Official days increased by 64.12 percent
- Public holidays increased by 53.90 percent

Boat trip data

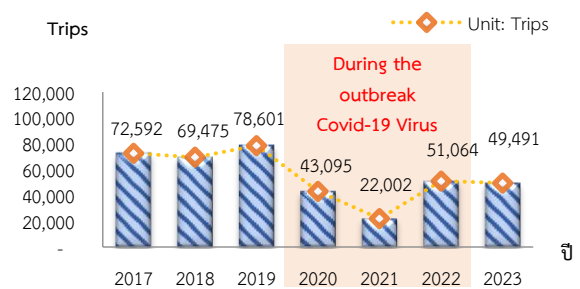
Overview the number of passenger boat trips average per day in 2023 decreased by 3.57 percent

- Official days decreased by 3.16 percent
- Public holidays decreased by 3.13 percent

Number of passengers (million persons)



Number of boat trips (trips)



Average passengers per day

- Official days 19,834 persons/day
- Public holidays 11,478 persons/day
- **Total 17,447 persons/day**

Average boat trips per day

- Official days 153 trips/day
- Public holidays 93 trips/day
- **Total 135 trips/day**



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Passenger Density of Ferry for the Year 2023

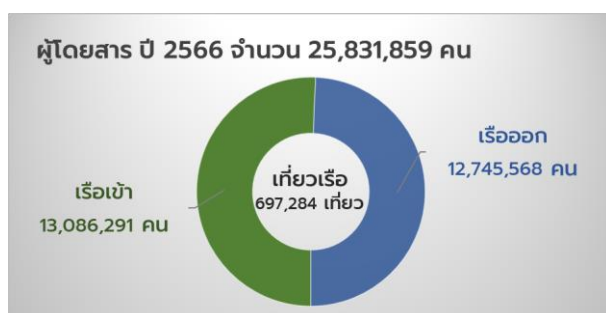
Passenger Density Survey

The survey of passenger density of ferries is intended to use the data for consideration, policy setting, planning and problem solving in organizing water transport systems to coordinate and be consistent with land transport and to be used for consideration in constructing passenger piers to meet standards so that service users are safe. The survey for the fiscal year 2023 was conducted twice during the opening and closing semesters. During the opening semester, between Thursday 24 - Saturday 26 November, Thursday 15 - Saturday 17 December, Thursday 22 - Saturday 24 December 2022 and between Thursday 5 - Saturday 7 January 2023. For the school break, the survey was conducted between Sunday 19 - Tuesday 21 March, Sunday 26 - Tuesday 28 March and Sunday 2 - Tuesday 4 April 2023. There are a total of 29 ferry routes that pick up and drop off passengers. The results of the data analysis are summarized as follows:

1 / Data analysis results

Data for 2023

The results of the data analysis indicated that the number of passengers in 2023, both arrival vessels and departure vessels, totaled 25,831,859 persons. The number of ferry trips in service totaled 697,284 trips.



Number of passengers/Boat trips	Arrival vess	Departure ve	Total
Passengers (persons)	13,086,291	12,745,568	25,831,859
Boat trips (Trips)	348,642	348,642	697,284

Average per Day Data

The number of passengers using the ferry service is an average of 70,964 persons per day. The ferry route with the most passengers is the Nonthaburi Municipality Pier and Bang Si Mueang Municipality Pier, with approximately 8,341 passengers per day, or 11.75 percent. The next most popular routes are Wibunsi Pier - Phra Samut Chedi Pier, Tha Tian Pier - Wat Arun Pier, and Phetra Pier - Phra Pradaeng Pier, respectively. The most popular route is the Wat Klang Kret Pier - Pa Fai Pier, with approximately 157 trips per day, or 8.20 percent. The next most popular routes are the Pak Kret Municipality Pier - Watchariwong Pier, Nonthaburi Municipality Pier - Bang Si Mueang Municipality Pier. and Pak Kret Pier - Wat Toei Pier, respectively

2 / Compare data for 2022 and 2023

Average passenger number per day comparison table

Unit: passengers

Day Type	2022	2023	Change Rate (%)
Official days	50,330	73,270	45.58
Public holidays	43,050	65,212	51.48
Average per day	48,251	70,964	47.07

Average boat trips number per day comparison table

Unit: Trips

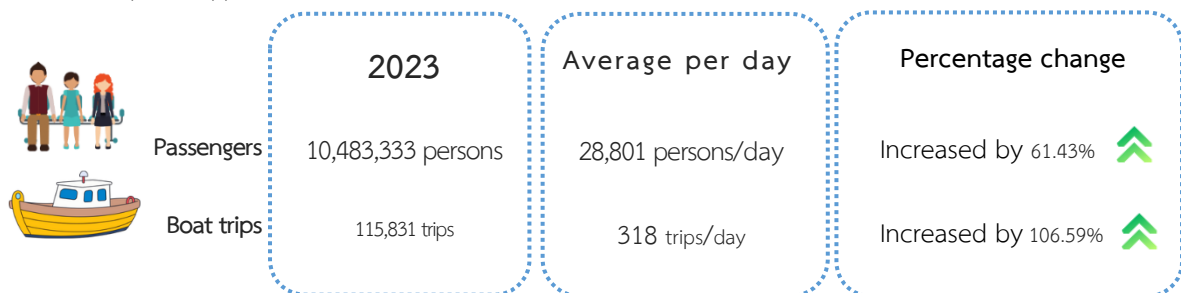
Day Type	2022	2023	Change Rate (%)
Official days	1,731	2,020	16.70
Public holidays	1,402	1,651	17.76
Average per day	1,637	1,914	16.92

From the comparison of the average number of passengers per day in 2022 and 2023, it was found that:

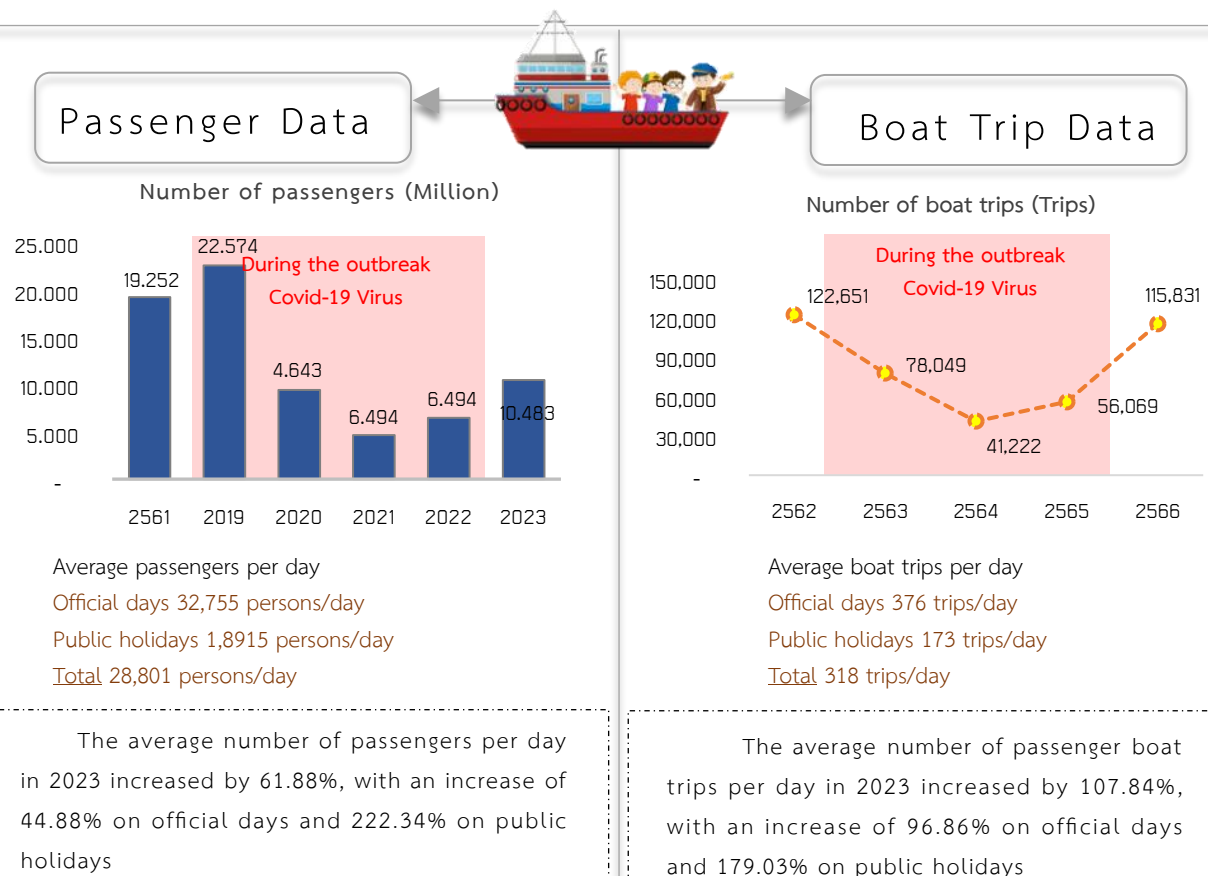
- The average number of passengers per day increased by 47.07 %, with the average number of passengers per day increasing by 45.58 % on official days and 51.48 % on public holidays.
- The average number of passenger boat trips per day increased by 16.92 %, with the average number of passengers per day increasing by 16.70 % on official days and 17.76 % on public holidays.

Passenger Density of Saen Saep Canal Boats for the Year 2023

The survey of passenger density data on Saen Saep Canal boats aims to use the data to consider, set policies, plan and solve problems in organizing water transport systems to coordinate and be consistent with land transport, and to use it in considering the construction of passenger piers that meet standard to provide convenience and safety to service users. The survey in 2023 was conducted by viewing CCTV cameras at each pier, both on official days and public holidays. There are a total of 28 piers in service. The travel time from Wat Si Bunrueang Pier (origin pier) to Phan Fa Pier (destination pier) is approximately 1 hour.

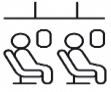


The data analysis results found that the number of passengers in 2023, including downbound and upbound boats, was 10,483,333 persons. The number of boat trips in service was 115,831 trips, with an average of 28,801 passengers per day. The top 3 most piers with passengers boarding and disembarking frequented daily averages are Pratunam Pier with 7,843 persons, Asoke Pier with 5,277 persons, and The Mall Bangkapi Pier with 4,385 persons, respectively.

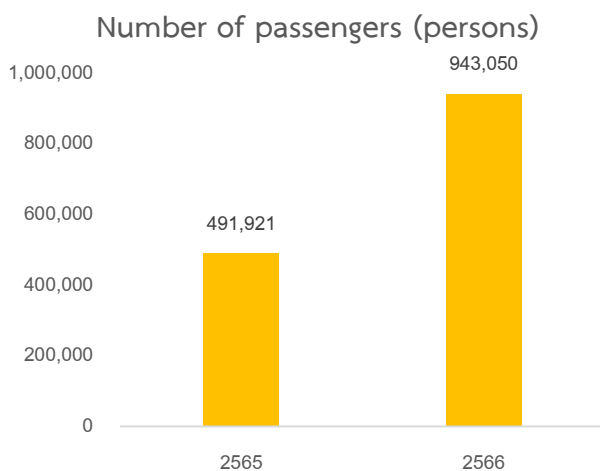


Passenger Density of
MINE Smart Ferry in the Chao Phraya River for the Year 2023

Passenger Density of MINE Smart Ferry for the Year 2023

	2023	Average perday	Percentage change
Passengers 	943,050 persons	2,591 persons/day	Increased by 91.64 %
Boat trips 	16,616 trips	46 trips/day	Immovable

Passenger Data




 Average passengers per day
 Official days 2,633 persons/day
 Public holidays 2,486 persons/day
Total 2,591 persons/day

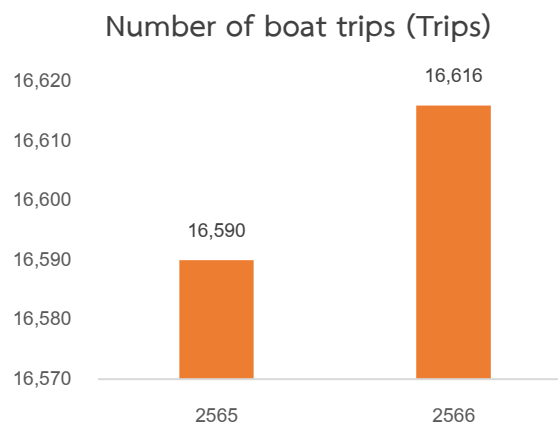
The average number of passengers per day in 2023 increased by 91.64%, with an increase of 82.09% on official days and 122.96% on public holidays

Boat Trip

The average number of passenger boat trips per day in 2023 is the same as in 2022, at 46 trips/day, with decreased by 4.17%, on official days and increase of 11.54% on public holidays



Average boat trips per day
 Official days 46 trips/day
 Public holidays 44 trips/day
Total 46 trips/day

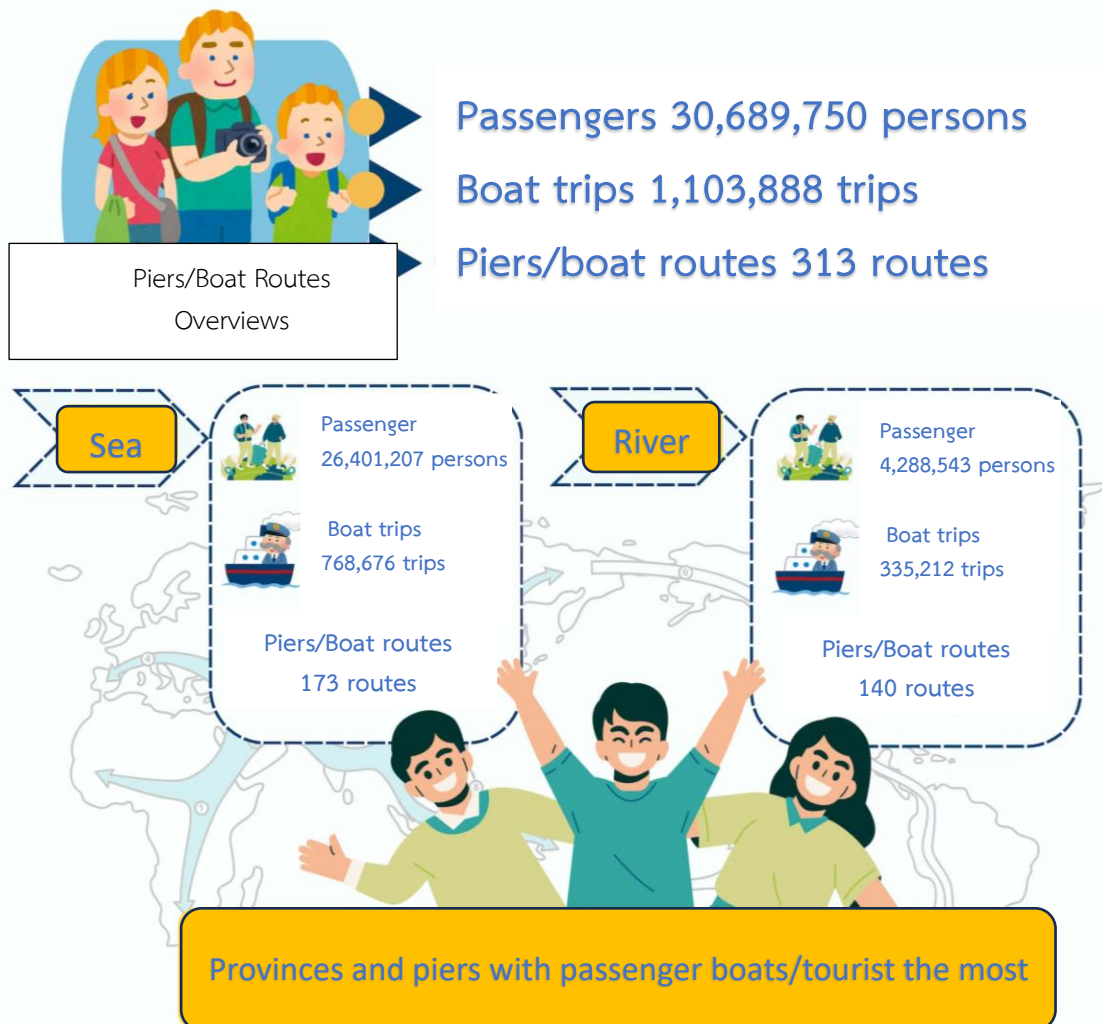


Statistics Division
 Planning Bureau, Marine Department

For Fiscal Year 2024

The survey of
tourist passenger boat data for the Year 2022

The survey of passenger boat/ tourist boat data for the fiscal Year 2023 (Data of the year 2022)



Sea



Songkhla 6,334,979 passengers
Songkhla Ferry Pier

River



Samut Sakhon 1,605,726 passengers
Mahachai – Tha Chalom Piers



The survey of tourist passenger boat data for the Year 2023

Executive Summary

Survey of passenger/tourist boat data

The data analyzed in 2023 was collected from the database system of the Office of Water Safety and Environment. It was checked for accuracy, completeness and consistency by comparing it with the original data obtained from the field survey by the Statistics Division, Planning Bureau and Comprehensive Plan. It consists of all types of passenger/tourist boat piers, including tourist piers, passenger piers (non-regular routes), passenger piers (regular routes) and water passenger/tourist boat piers that provide services along river and sea routes (in the Andaman Sea and the Gulf of Thailand) nationwide.



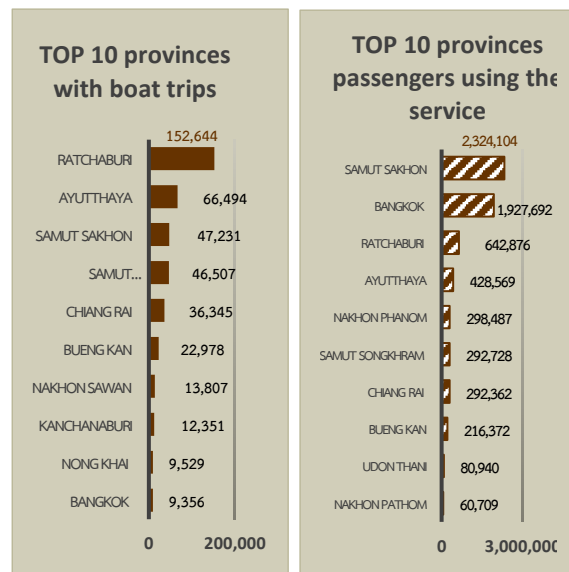
Data analysis results

Overview of passenger/tourist boat piers, both river and sea, in 2023, a total of 44 provinces, with 236 piers, a total of 1,352,614 boat trips and a total of 42,698,200 passengers

Passenger/ tourist boat data	River areas		Sea areas	
	Number	%	Number	%
Provinces with passenger/ tourist boats	26	59.09	18	40.91
Tourist piers	125	52.97	111	47.03
Boat trips	478,138	35.35	874,476	64.65
Passengers	7,058,067	16.53	35,640,133	83.47

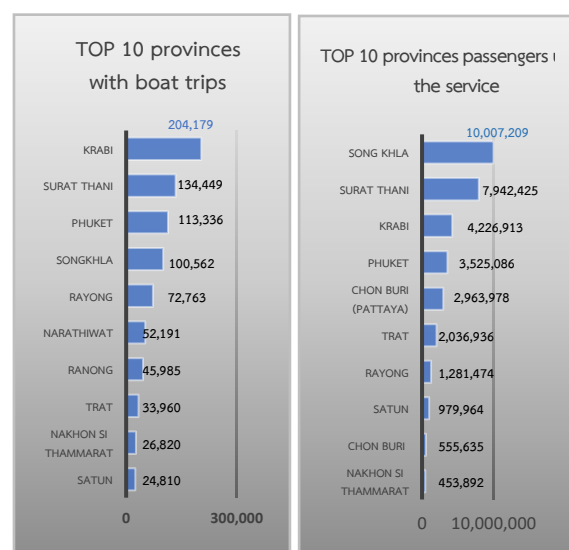
1 / River Area

River area has 26 provinces, 125 piers, 478,138 boat trips serviced and 7,058,067 passengers.



2 / Sea Area

Sea area has 18 provinces, 111 piers, 874,476 boat trips and passengers using the service, 35,640,133 passengers



STATISTICS

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Pier

Passenger Piers

in the Chao Phraya River from Samut Prakan Province to Pathum Thani Province, 2023

Passenger Piers in the Chao Phraya River from Samut Prakan Province to Pathum Thani Province, collected in the fiscal year 2023 as of December 2022, totaling 134 piers, these include 20 piers in Samut Prakan Province, 78 in Bangkok, 29 in Nonthaburi Province, and 7 in Pathum Thani Province, divided into Chao Phraya Express Boat Piers, MINE Smart Ferry Piers, Ferry Piers, Long-Propeller shaft boat Piers, and General Piers

Table showing the list of passenger piers in the Chao Phraya River from Samut Prakan Province to Pathum Thani Province

No.	Pier's Name	Province	Pier's Owner	Number of pontoons	Passengers get on – get into					Remark
					Express	MINE Smart	Ferry	Long propeller shaft	others	
1	Samut Prakan Pier (Regional Department)	Samut Prakan	Marine Dept.	1					/	
2	Samut Prakan Pier	Samut Prakan	Marine Dept.	1					/	
3	Wibun Si Pier	Samut Prakan	Private	2			/			
4	Phra Samut Chedi Pier	Samut Prakan	Provincial Administrative Organization	2			/			
5	Wat Bang Fai Pier	Samut Prakan	Marine Dept.	1					/	
6	Suk Sawat 53 Pier	Samut Prakan	Marine Dept.	1					/	
7	Wat Bang Hua Suea Pier	Samut Prakan	Marine Dept.	1					/	
8	Phra Pradaeng Hospital Pier	Samut Prakan	Private	1			/			
9	Phetra Pier	Samut Prakan	Private	2			/			
10	Phra Pradaeng Pier (South)	Samut Prakan	Phra Pradaeng Municipality	1			/		/	
	Phra Pradaeng Pier (North)	Samut Prakan		1			/			
11	Khlong Khut Chong Nonsi Pier	Samut Prakan	Marine Dept.							No pier
12	Wat Bang Krasop Pier	Samut Prakan	Marine Dept.	1					/	
13	Bang Krasop Sub-district Pier	Samut Prakan	Marine Dept.	1					/	
14	Kamnan Ti Pier (Ta Luean)	Samut Prakan	Private	1			/			
15	Wat Bang Nam Phueng Nok Pier	Samut Prakan	Private	1			/			
16	Wat Bang Krachao Nok Pier	Samut Prakan	Marine Dept.	1					/	
17	Khlong Lat Pho Pier	Samut Prakan	Marine Dept.							Only pier without pontoon
18	Pak Khlong Lat Pho Pier	Samut Prakan	Private	1			/			
19	Pak Khlong Lat Luang Pier	Samut Prakan	Marine Dept.	1						
20	Wat Bang Phueng Pier	Samut Prakan	Marine Dept.	1			/		/	
21	Wat Bang Na Nok Pier (South)	BKK.	Private	1			/			
22	Bang Na Pier (North)	BKK.	Naval Ordinance Dept.	1			/			
23	Thai Customs Dept. Pier	BKK.	Marine Dept.	1					/	
24	Khlong Toei Pier	BKK.	Private	3			/		/	
25	Chong Nonsi Pier	BKK.	Marine Dept.	2					/	
26	Wat Khlong Phum Pier	BKK.	Marine Dept.	1					/	
27	Rama III Pier	BKK.	Private	1			/			
28	Talat Bangkok Square Pier	BKK.	Marine Dept.	1					/	
29	Sathu Pradit Pier	BKK.	Marine Dept.	1			/			
30	Wat Chaeng Ron Pier	BKK.	Marine Dept.	1					/	

No.	Pier's Name	Province	Pier's Owner	Number of pontoons	Passengers get on – get into					Remark
					Express	MINE Smart	Ferry	Long propellor shaft	others	
31	Rat Burana Pier (Big-C)	BKK.	Private	1					/	
32	Wat Dao Khanong Pier	BKK.	Marine Dept.	1					/	
33	Wat Bang Kho Pier	BKK.	Marine Dept.	1					/	
34	Thanon Tok Pier	BKK.	Marine Dept.	1					/	
35	Bangkok Bridge Pier (Thon Buri)	BKK.	Marine Dept.	1					/	
36	Asiatique Pier	BKK.	Private	1	/				/	
37	Wat Ratcha Singkhon Pier	BKK.	Private	1	/					
38	Wat Worachanyawat Pier	BKK.	Private	1	/					
39	Wat Sawettachat Worawihan Pier	BKK.	Marine Dept.	1	/					
40	Wat Yan Nawa Pier	BKK.	Marine Dept.	1					/	
41*	Sathon Pier (Phra Nakhon, South)	BKK.	Marine Dept.	2					/	
	Sathon Pier (Phra Nakhon, Middle pontoon)	BKK.	Marine Dept.	2	/	/				
	Sathon Pier (Phra Nakhon, North)	BKK.	Marine Dept.	1			/			
42*	Sathon Pier (Thon Buri, South)	BKK.	Marine Dept.	1					/	
	Sathon Pier (Thon Buri, Middle pontoon)	BKK.	Private	1					/	
	Sathon Pier (Thon Buri, North)	BKK.	Private	1			/			
43	Suan Plhu Pier (End of Si Lom Road)	BKK.	Private							Only pier without pontoon
44	Dumex Pier	BKK.	Private							Only pier without pontoon
45	Oriental Pier	BKK.	Marine Dept.	2	/		/			
46	Wat Suwan Pier	BKK.	Private	1			/			
47	Suwannabhumi Masjid Pier	BKK.	Marine Dept.	1					/	
48	Wat Muang Khae Pier	BKK.	Private	1	/				/	
49	Icon Siam Pier (South)	BKK.	Private	1	/					
	Icon Siam Pier (North)	BKK.	Private	1	/					
	Icon Siam Pier (Shuttle boat)	BKK.	Private	1	/				/	
50	Si Phraya Pier (South)	BKK.	Marine Dept.	2	/	/				
51	Si Phraya Pier (North)	BKK.	Private	1			/			
52	Khlong San Pier	BKK.	Private	1			/			
53	Plai Thanon Lat Ya Pier	BKK.	Marine Dept.	1					/	
54	Marine Department Pier	BKK.	Marine Dept.	1	/	/				
55	Sawatdi Pier	BKK.	Private	1			/			
56	Wat Thong Thammachat Pier	BKK.	Private	1	/		/			
57*	Ratchawong Pier (South)	BKK.	Marine Dept.	1	/	/				
	Ratchawong Pier (North)	BKK.	Private	1			/			
58	Din Daeng Pier	BKK.	Marine Dept.	2			/			
59*	Memorial Bridge Pier (Phra Nakhon, South)	BKK.	Marine Dept.	2	/	/				
	Memorial Bridge Pier (Phra Nakhon, North)	BKK.	Bangkok Metropolitan							Only pier without pontoon
60*	Memorial Bridge Pier (Thon Buri, South)	BKK.	Marine Dept.							Only pier without pontoon
	Memorial Bridge Pier (Thon Buri, North)	BKK.	Marine Dept.							Only pier without pontoon
61	Wat Prayurawongsawat Worawihan Pier	BKK.	Marine Dept.	1					/	
62*	Yot Phiman 1 Pier (South)	BKK.	Private	1					/	Out of service
	Yot Phiman 2 Pier (Middle pontoon)	BKK.	Private	1					/	Out of service
	Yot Phiman 6/1 Pier (Pak Khlong Talat)	BKK.	Private	1	/					Out of service
63	Asadang Pier (Pak Khlong Talat)	BKK.	Marine Dept.	1			/			
64	Wat Kudeejeen Pier	BKK.	Private	1					/	

No.	Pier's Name	Province	Pier's Owner	Number of pontoons	Passengers get on – get into					Remark
					Express	MINE Smart	Ferry	Long propellor shaft	others	
65*	Wat Kanlayanamit Pier (South)	BKK.	Private	1			/			
	Wat Kanlayanamit Pier (North)	BKK.	Marine Dept.	1					/	
66	Rchjini Pier	BKK.	Marine Dept.	1	/	/				
67*	Tian Pier (South)	BKK.	Private	1			/			
	Tian Pier (North)	BKK.	Private	1				/		
68	Wat Arun Ratchawararam Pier	BKK.	Private	2	/					
	Wat Arun Ratchawararam Pier (Long propellor shaft)	BKK.	Private	1				/		
	Wat Arun Ratchawararam Pier (Ferry)	BKK.	Private	1			/			
69	Chang Pier (South)	BKK.	Marine Dept.	3	/	/		/		
	Chang Pier (North)	BKK.	Marine Dept.	3			/			
70	Wat Rakhang Pier	BKK.	Private	1			/			
71	Khun Kouy Pier	BKK.	Private							Only pier without pontoon
72	Maharat Pier	BKK.	Private	3	/		/		/	Four boat of express boat company
73	South Phra Chan Pier	BKK.	Private	1						
74	Wang Lang Pier	BKK.	Private	1			/			
75	Phran Nok Pier	BKK.	Marine Dept.	1	/	/				
76	North Phra Chan Pier (Thammasart Uni.)	BKK.	Private	2			/			
77	Rot Fai Pier	BKK.	Marine Dept.	1	/					
78*	Phra Pinklao Pier (Thon Buri, South)	BKK.	Marine Dept.	1					/	
	Phra Pinklao Pier (Thon Buri, North)	BKK.	Marine Dept.	1	/	/				
79	Phra Pinklao Pier (Phra Nakhon)	BKK.	Marine Dept.	1					/	
80	Phra Athit Pier (Bang Lamphu)	BKK.	Private	1	/					
81	Rama VIII Bridge Pier	BKK.	Bangkok Metropolitan	1	/					
82	Wat Kharuehabodi Pier	BKK.	Private	1						
83	Wat Bowon Mongkhon Pier	BKK.	Private	1			/			
84*	Thewet Pier (South)	BKK.	Marine Dept.	2	/	/				
	Thewet Pier (North)	BKK.	Private	1			/			
85	Wasukri Pier	BKK.	Marine Dept.	1					/	
86	Wat Rachathiwat Pier	BKK.	Marine Dept.	1					/	
87*	South Krung Thon Bridge Pier (Sang Hi)	BKK.	Marine Dept.	1	/					
	North Krung Thon Bridge Pier (Sang Hi)	BKK.	Private							Only pier without pontoon
88	Wat Thep Nari Pier	BKK.	Marine Dept.	1	/					
89	Wat Theephakon Pier	BKK.	Marine Dept.	1	/					
90	Wat Awutwisitaram Pier	BKK.	Private	1			/			
91	Phayap Pier	BKK.	Marine Dept.	2	/	/				
92	Royal Irrigation Dept. Samsen Pier	BKK.	Royal Irrigation Dept.	1	/					
93	Khiao Khai Ka Pier	BKK.	Marine Dept.	1	/					
94	Kiak Kai Pier	BKK.	Marine Dept.	2	/					
95	Bang Pho Pier	BKK.	Marine Dept.	1	/	/				
96	Wat Bang Pho Omawat Pier	BKK.	Marine Dept.	1					/	
97	Wat Soi Thong Pier	BKK.	Private	1	/					
98	Rama VII Bridge Pier (Phra Nakhon)	BKK.	Marine Dept.							No pier found
99	Rama VII Bridge Pier (Thon Buri)	Nonthaburi	Marine Dept.	2	/	/				
100	Phibun Songkhrum 1 Pier	Nonthaburi	Marine Dept.	1	/					

No.	Pier's Name	Province	Pier's Owner	Number of pontoons	Passengers get on – get into					Remark
					Express	MINE Smart	Ferry	Long propellor shaft	others	
101	Wat Khemaphiratararn Pier	Nonthaburi	Wat Khemaphiratararn	1	/		/			
102	Wat Khangkhao Pier	Nonthaburi	Marine Dept.	1			/			
103	Phayomthong Pier (Bang Phai Sub-district Organization)	Nonthaburi	Bang Phai Sub-district Organization							Only pier without pontoon
104	Wat Tuek Pier	Nonthaburi	Private	1	/					
105	Wat Salari Pier	Nonthaburi	Marine Dept.	1					/	
106	Wat Khian Pier	Nonthaburi	Private	1	/					
107	Phibun Songkhram 2 Pier	Nonthaburi	Marine Dept.	1	/					
108	Rama V Bridge Pier	Nonthaburi	Marine Dept.	1	/					
109*	Nonthaburi Pier (Phibun Songkhram 3) Southern outside pontoon	Nonthaburi	Marine Dept. has received from other authority	1	/	/				
	Nonthaburi Pier (Phibun Songkhram 3) South inside pontoon	Nonthaburi	Marine Dept. has received from other authority	1				/		
	Nonthaburi Pier (Phibun Songkhram 3) Middle pontoon	Nonthaburi	Marine Dept.	1			/			
	Nonthaburi Pier (Phibun Songkhram 3) Northern outside pontoon	Nonthaburi	Marine Dept.	1					/	
110	Bang Si Mueang Municipality Pier	Nonthaburi	Marine Dept.	1			/			
111	Wat Chaloen Phrakiat Pier	Nonthaburi	Marine Dept.	1					/	
112	Phibun Songkhram 4 Pier	Nonthaburi	Marine Dept.	1					/	
113	Wat Sai Ma Tai Pier	Nonthaburi	Marine Dept.	1					/	
114	Phra Nang Klao Pier	Nonthaburi	State Railway of Thailand	4	/	/				
115	Wat Khae Nok Pier	Nonthaburi	Marine Dept.	1					/	
116	Ministry of Commerce Pier	Nonthaburi	Ministry of Commerce	1	/					
117*	Wat Choeng Len Pier (South)	Nonthaburi	Marine Dept.	1				/	/	
	Wat Choeng Len Pier (North)	Nonthaburi	Marine Dept.	1				/	/	
118	Wat Klang Kret Pier	Nonthaburi	Private	1	/		/			
119	Wat Chimphli Sutthawat Pier	Nonthaburi	Private	1			/			
120	Wat Sanam Nuea Pier	Nonthaburi	Private	1			/			
121	Wat Paramai Yikawat Pier (Cross)	Nonthaburi	Private	1			/		/	
122*	Wat Paramai Yikawat Pier (Rightside)	Nonthaburi	Wat Paramai Yikawat Pier	1					/	
	Wat Paramai Yikawat Pier (Left side)	Nonthaburi	Wat Paramai Yikawat Pier	1					/	
123	Wat Phai Lom Pier	Nonthaburi	Marine Dept.	1			/			
124*	Wat Bang Chak Pier (Left side)	Nonthaburi	Tourism Authority of Thailand	1			/			
	Wat Bang Chak Pier (Right side)	Nonthaburi	Marine Dept.	1					/	
	Pak Kret Pier	Nonthaburi	Private	1	/					
125	Pak Kret Pier (Beginning of Chaeng Watthana Road)	Nonthaburi	Pak Kret Municipality	3			/	/		
126	Watchariwong Pier	Nonthaburi	Bang Tanai Sub-district Organization	1			/			
127	Pak Kret Pier (Sukha Prachauthit)	Nonthaburi	Private	1			/			
128	Wat Toei Pier	Nonthaburi	Private	1			/			
129*	South Ratchaphatsadu Building Pier (Municipality 3)	Pathum Thani	Marine Dept.	1					/	
	North Ratchaphatsadu Building Pier (Municipality 3)	Pathum Thani	Marine Dept.	1					/	
130	Suan Thep Pathum Pier	Pathum Thani	Pathum Thani Municipality	1					/	
131	Khanaratbamrung Pathum Thani School Pier	Pathum Thani	Private	1			/			
132	Pathum Thani Technical College Pier	Pathum Thani	Private	1					/	
133	Beginning of Tiwanon Road Pier	Pathum Thani	Marine Dept.	1					/	
134	Sam Khok District Office (Pathum Thani) Pier	Pathum Thani	Marine Dept.	1					/	

Remark * means the piers in the same area

/ means the pier where boats use the service

Piers

that the Marine Department has completed construction in the Fiscal Year 2023

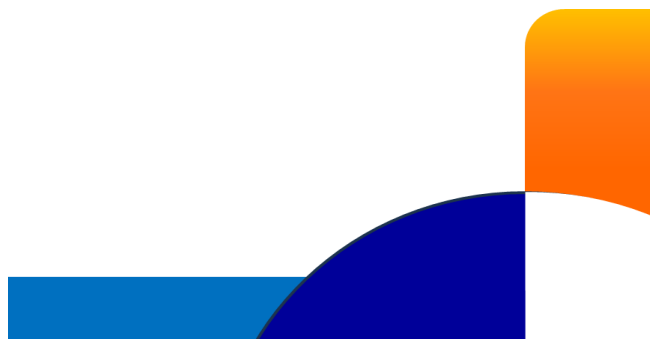
The report on piers constructed by the Marine Department aims to compile a list of all piers constructed by the Marine Department, divided into coastal areas, in various regions, and Bangkok and its vicinity, which have been completed since the fiscal year 1971 - 2023, as summarized below:

There are in total of 164 piers constructed by the Marine Department up to the present (data as of April 30, 2023), with 13 piers that have been renovated during the fiscal year 2021-2023, namely:

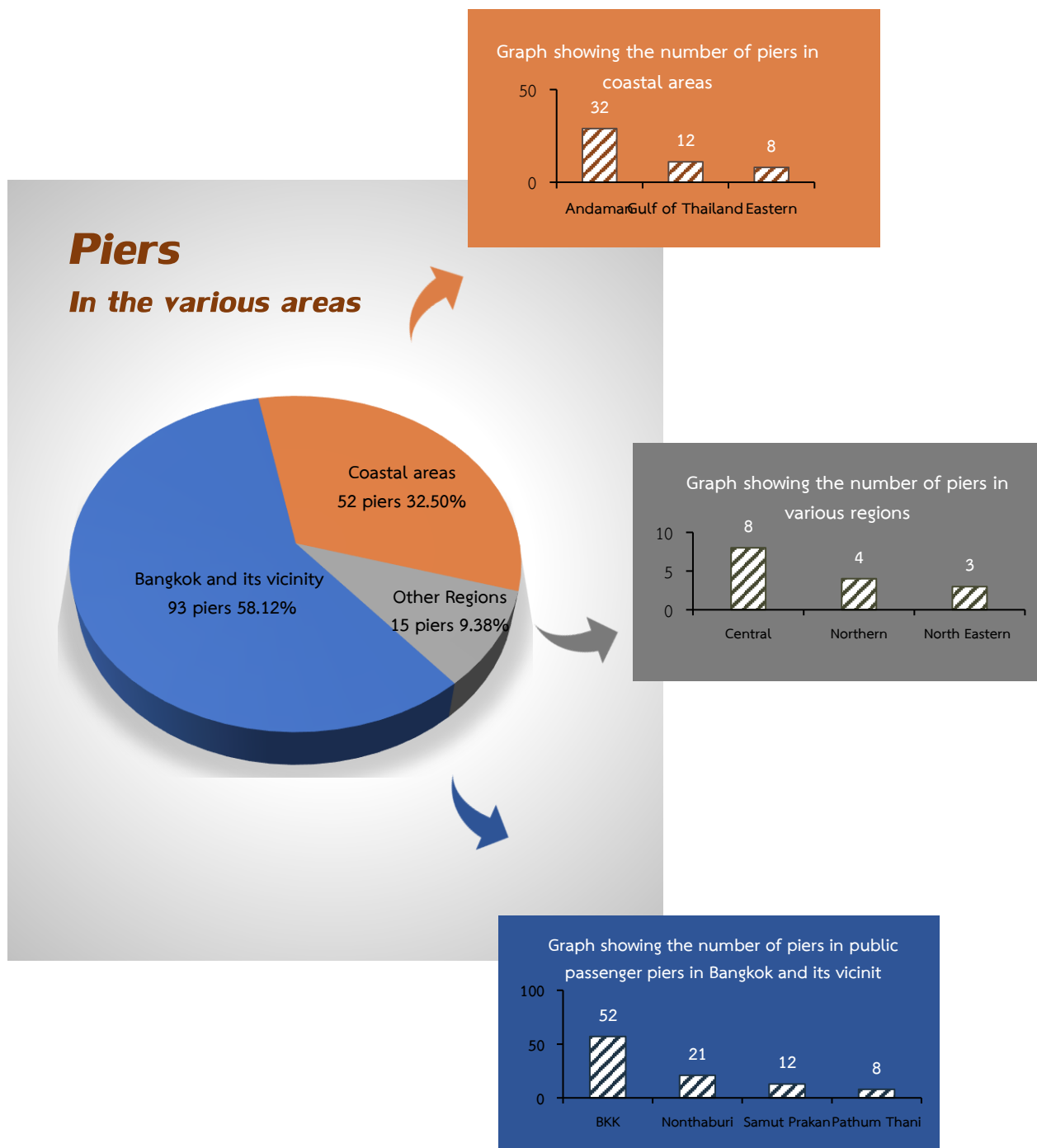
- 1) Passenger piers on the Chao Phraya River, Bangkok and its vicinity, 4 places
 - Tha Din Daeng Pier
 - Wat Bang Krachao Nok Pier
 - Wat Bang Khlo Pier
 - Pak Khlong San Pier
- 2) Passenger piers for the development of facilities in Bangkok, 3 places
 - Bang Pho Pier
 - Phayap Pier
 - Rajinee Pier
- 3) Public piers in the regions, for annual, in the area of Krabi Province, 3 places
 - Laem Sak Pier
 - Klong Khamao Pier
 - Laem Hin Pier
- 4) Multipurpose pier to support tourism area in Pak Khlong Sub-district, Pathio District, Chumphon Province
- 5) Two piers for tourism and management within the pier for safety:
 - Thong Sala Pier, Koh Phangan District, Surat Thani Province
 - Hat Rin Pier, Koh Phangan District, Surat Thani Province

All piers that the Marine Department has completed construction are divided into the following pier areas:

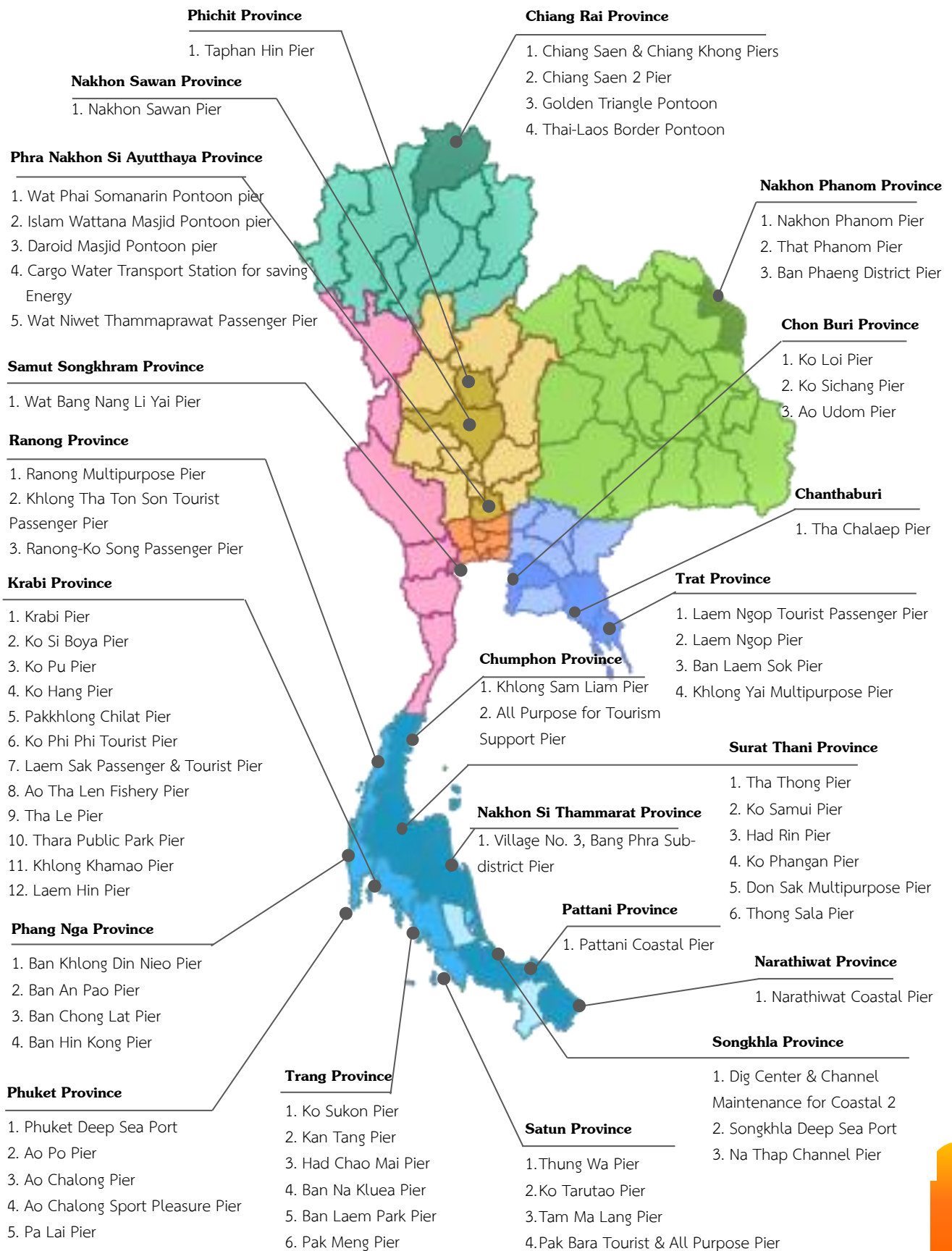
1. **Piers in coastal areas**, there are in total of 56 piers.
 - **In the Gulf of Thailand coast**, there are 14 piers, the location of Surat Thani Province: 6 piers, Narathiwat Province: 1 pier, Pattani Province: 1 pier, Songkhla Province: 3 piers, Chumphon Province: 2 piers, and Nakhon Si Thammarat Province: 1 pier
 - **In the area of Andaman Coast**, there are 34 piers, the location of Krabi Province: 12 piers, Trang Province: 6 piers, Satun Province: 4 piers, Ranong Province: 3 piers, Phang Nga Province: 4 piers, and Phuket Province: 5 piers
 - **In the area of Eastern Coast**, there are 8 piers, the location of Chonburi Province: 3 piers, Trat Province: 4 piers, and Chanthaburi Province: 1 pier
2. **Piers along the river in various regions**, there are a total of 15 piers.
 - **Central Region**, there are 8 piers, in the location of Nakhon Sawan Province: 1 pier, Phichit Province: 1 pier, Phra Nakhon Si Ayutthaya Province: 5 piers, and Samut Songkhram Province: 1 pier
 - **In the Northeast Region**, there are 3 piers, all in Nakhon Phanom Province.
 - **In the North Region**, there are 4 piers, all in Chiang Rai Province
3. **Public passenger piers in Bangkok and its vicinity**, there are 93 piers in total, 52 of which are in Bangkok, 21 in Nonthaburi, 12 in Samut Prakan, and 8 in Pathum Thani.



All the piers, which the Marine Department has completed construction, are divided into various pier areas as follows:



Piers in coastal areas and in the various regions



Public passenger piers in Bangkok and its vicinity



Remark : Name of the piers with red mark, status: No piers and no vessels docked.

Survey of Satisfaction

Satisfaction with Government Agencies for the Year 2023

Central Government



The survey of satisfaction and dissatisfaction with the provision of central government services for the fiscal year 2022 was conducted in two phases. The first phase is from December 1-31, 2022, and February 22-24, 2023, involving a total of 155 samples. The second phase was conducted from May 1-31, 2023, with a total of 166 samples. The overall survey results are categorized into different aspects, as shown in the table.

Table: Percentage of satisfaction regarding the provision of central government services in the year 2023, categorized into different aspects

Satisfaction Issues	1 st Time/2023 (n=155)		2 nd Time/2023 (n=166)	
	Average Score	Percentage	Average Score	Percentage
Aspects of Officer/Personnel				
1. Officers Service Etiquette	4.600	92.00	4.560	91.20
2. Officers Provide Service with Convenience, Speed, and Enthusiasm	4.581	91.62	4.524	90.48
3. Ability to Advise and Answer Questions in Accordance with Objectives	4.594	91.88	4.524	90.48
4. Number of Officers Provide Service In terms of contact	4.484	89.68	4.476	89.52
5. Responsibility for duties, sacrifice, perform duties quickly, transparently	4.613	92.26	4.542	90.84
6. Punctuality of officers in performing duties	4.606	92.12	4.530	90.60
Total	4.580	91.60	4.526	90.52
In terms of service process				
7. Public relations about the rules, discipline and procedures	4.445	88.90	4.428	88.56
8. Service is systematic and follows the specified procedures	4.561	91.22	4.464	89.28
9. Service period is appropriate for the work conditions	4.542	90.84	4.458	89.16
10. Accuracy of information, documents/quality of work received	4.620	92.40	4.525	90.50
Total	4.542	90.84	4.468	89.36
Facilities				
11. There are modern tools and equipment to provide services	4.368	87.36	4.464	89.28
12. The service location is clean and neat	4.626	92.52	4.554	91.08
Total	4.497	89.94	4.509	90.18
Grand total	4.553	91.06	4.504	90.08

Regional Government Sector



The survey of satisfaction and dissatisfaction with the provision of regional government services in the fiscal year 2022 was conducted in two phases. The first phase is from January 1-31, 2023, involving a total of 200 samples. The second phase from May 1-31, 2023, with a total of 355 samples. The overall survey results are categorized into different aspects, as shown in the table.

Table: Percentage of satisfaction regarding the provision of regional government services in the year 2023, categorized into different aspects.

Satisfaction Issues	1 st Time/2023 (n=200)		2 nd Time/2023 (n=355)	
	Average Score	Percentage	Average Score	Percentage
Aspects of Officer/Personnel				
1. Officers Service Etiquette	4.730	94.60	4.662	93.24
2. Officers Provide Service with Convenience, Speed, and Enthusiasm	4.740	94.80	4.662	93.24
3. Ability to Advise and Answer Questions in Accordance with Objectives	4.715	94.30	4.662	93.24
4. Number of Officers Provide Service In terms of contact	4.640	92.80	4.541	90.82
5. Responsibility for duties, sacrifice, perform duties quickly, transparently	4.730	94.60	4.623	92.45
6. Punctuality of officers in performing duties	4.730	94.60	4.625	92.51
Total	4.714	94.28	4.629	92.58
Service process				
7. Public relations about the rules, discipline and procedures	4.670	93.40	4.566	91.32
8. Service is systematic and follows the specified procedures	4.695	93.90	4.594	91.89
9. Service period is appropriate for the work conditions	4.700	94.00	4.558	91.16
10. Accuracy of information, documents/quality of work received	4.715	94.30	4.654	93.07
Total	4.695	93.90	4.593	91.86
Facilities				
11. There are modern tools and equipment to provide services	4.545	90.90	4.479	89.58
12. The service location is clean and neat	4.640	92.80	4.561	91.21
Total	4.593	91.86	4.520	90.39
Grand total	4.688	93.76	4.599	91.97

Navigation Supervision Sector



The survey on satisfaction with navigation supervision in the fiscal year 2021 was conducted in two phases: the first phase from November 9-11, 2022, involving a total of 670 samples. And the second phase from June 14-16, 2023, with a total of 718 samples.

Overall survey results are categorized into different aspects, shown in the table

Table: Percentage of satisfaction in navigation supervision in the year 2023, categorized into different aspects.

Satisfaction Issues	1 st Time/2023 (n=670)		2 nd Time/2023 (n=718)	
	Average Score	Percentage	Average Score	Percentage
1. Marine Department patrol ships				
1.1 Frequency of ship navigation supervision	3.401	68.02	3.298	65.96
1.2 Number of patrol ships navigated each day	3.384	67.68	3.241	64.82
1.3 Navigation routes	3.432	68.64	3.275	65.50
1.4 Etiquette of officers	3.768	75.36	3.789	75.78
1.5 Wearing uniforms while performing duties	3.933	78.66	4.023	80.46
1.6 Responsibilities of officers in patrolling	3.754	75.08	3.720	74.40
1.7 Officers' use of boat speed while on duties is appropriate for the mission	3.714	74.28	3.641	72.82
Total	3.627	72.54	3.569	71.38
2. Marine Department officers stationed at the pier				
2.1 Number of officers available	3.718	74.36	3.680	73.60
2.2 Attentiveness and enthusiasm in providing services	3.872	77.44	3.804	76.08
2.3 Etiquette of officers. Officer's cheerful speech	3.921	78.42	3.864	77.28
2.4 Wearing uniforms while performing duties	4.106	82.12	4.113	82.26
2.5 Officer's punctuality while performing duties (Morning shift 07.00-15.00 hrs., Afternoon shift 12.00-20.00 hrs.)	3.892	77.84	3.902	78.04
2.6 Officer's facilitation	3.938	78.76	3.889	77.78
2.7 Assistance to passengers	3.952	79.04	3.900	78.00
2.8 Giving advice and answer questions clearly according to the objectives	3.940	78.80	3.908	78.16
Total	3.917	78.34	3.882	77.64
Grand total	3.782	75.64	3.736	74.72

Satisfaction with Passenger Boat Services for the Year 2023



Survey of satisfaction with passenger boat services in Bangkok and its vicinity in the fiscal year 2023. The survey was conducted once between November 9-11, 2022, using QR codes and distributing survey forms at the pier. The passenger boats surveyed included Chao Phraya Express Boats, Saen Saep Canal Boats, and ferries.

Table: Percentage of satisfaction with passenger boat services in the year 2023, categorized into different aspects.

Points of satisfaction/dissatisfaction measurement	Percentage of satisfaction		
	Chao Phraya Express Boat (n=528)	Saen Saep Canal Boat (n=643)	Ferry (n=725)
Boat services			
1. Convenience and fast	79.48	71.56	74.86
2. Number of boat trips provided	73.34	63.68	72.74
3. Fares	77.20	66.54	75.30
4. Punctuality of departure	79.32	63.48	72.48
5. Safety from the control of the boat driver	80.12	66.44	75.60
6. Availability of safety equipment on the boat, such as life jackets, floats, etc.	77.84	65.42	73.72
7. Etiquette of ship officer service	79.10	64.64	77.36
8. Introduction and answering questions of ship officer	80.56	65.54	75.84
Total boat services	78.36	65.92	74.74
Pier			
9. Having signs recommending services at the pier	77.64	68.24	74.60
10. Service process	77.72	67.50	74.82
11. Etiquette of officer service on the pier	78.70	67.24	75.84
12. Number of officers providing services at the pier	77.92	66.90	73.60
13. Pier officer introduction and answering questions	78.86	68.02	74.72
14. Sufficiency of seating at the pier	74.48	59.26	73.58
15. Boarding/disembarking aisles, floor conditions, handrails	77.24	66.16	74.76
16. Availability of safety equipment at the pier, such as life jackets, lifebuoys, etc.	75.12	62.68	73.02
17. Condition of rubber bumpers between the boat and the pontoon	74.80	66.54	74.18
18. Cleanliness of the pier	76.28	67.44	74.86
19. Condition of the sun/rain shelter (waiting pavilion and walkways)	77.16	68.00	74.40
20. Pier conditions, such as pier size/handrails/availability	78.06	68.28	75.18
Total pier service	77.00	66.36	74.46
Grand total	77.54	66.18	74.58

Satisfaction of users of MINE Smart Ferry on the Chao Phraya River for the Year 2023

"MINE Smart Ferry" is an electric vessel designed by the team of Energy Absolute Public Company Limited (EA). It is the first passenger vessel in Thailand to be officially registered for service on the Chao Phraya River on December 23, 2020. This electric passenger vessel project is also part of the collaboration with the Ministry of Transport and the Marine Department in implementing the transportation system development plan that emphasizes the use of electric power instead of oil fuel more to be in line with the national development plan, reducing land traffic problems, reducing pollution, and for the convenience of the people by connecting travel by full electric vehicles, both vessel-car-rail systems, according to the Seamless Transportation Policy



In the fiscal year 2023, the survey was conducted twice between January 26-28 and May 11-13, 2023. The number of respondents was 611 people.

Table: Summarizing the percentage of satisfaction of MINE Smart Ferry users on the Chao Phraya River

Satisfaction issues	Average score	Standard deviation (S.D.)	Average percentage	Satisfaction level (n=611)					Satisfaction level
				Most (5)	High (4)	Moderate (3)	Little (2)	Least (1)	
1. Vessel characteristics and shape	4.357	0.68	87.14	46.32	43.86	9.17	0.49	0.16	High
2. Vessel size	4.458	0.65	89.16	53.19	40.59	5.24	0.82	0.16	High
3. Vessel safety	4.352	0.69	87.04	46.65	42.88	9.66	0.65	0.16	High
4. Vessel driver's expertise	4.285	0.73	85.70	42.88	44.19	11.95	0.49	0.49	High
5. Vessel safety equipment	3.974	0.94	79.48	34.37	36.66	21.60	6.72	0.65	High
6. Vessel comfort	4.406	0.70	88.12	51.55	38.46	9.18	0.65	0.16	High
7. Cleanliness of Vessel	4.357	0.78	87.14	50.08	39.12	7.86	2.29	0.65	High
8. Fast and punctuality	4.095	0.94	81.90	40.42	36.01	18.17	3.44	1.96	High
9. Service of Vessel officers	4.396	0.69	87.92	49.75	41.41	7.86	0.65	0.33	High
Total	4.298	0.77	85.96	46.13	40.35	11.19	1.80	0.53	High

Satisfaction of users of passenger piers along the Chao Phraya River in Bangkok and its vicinity for the Year 2023



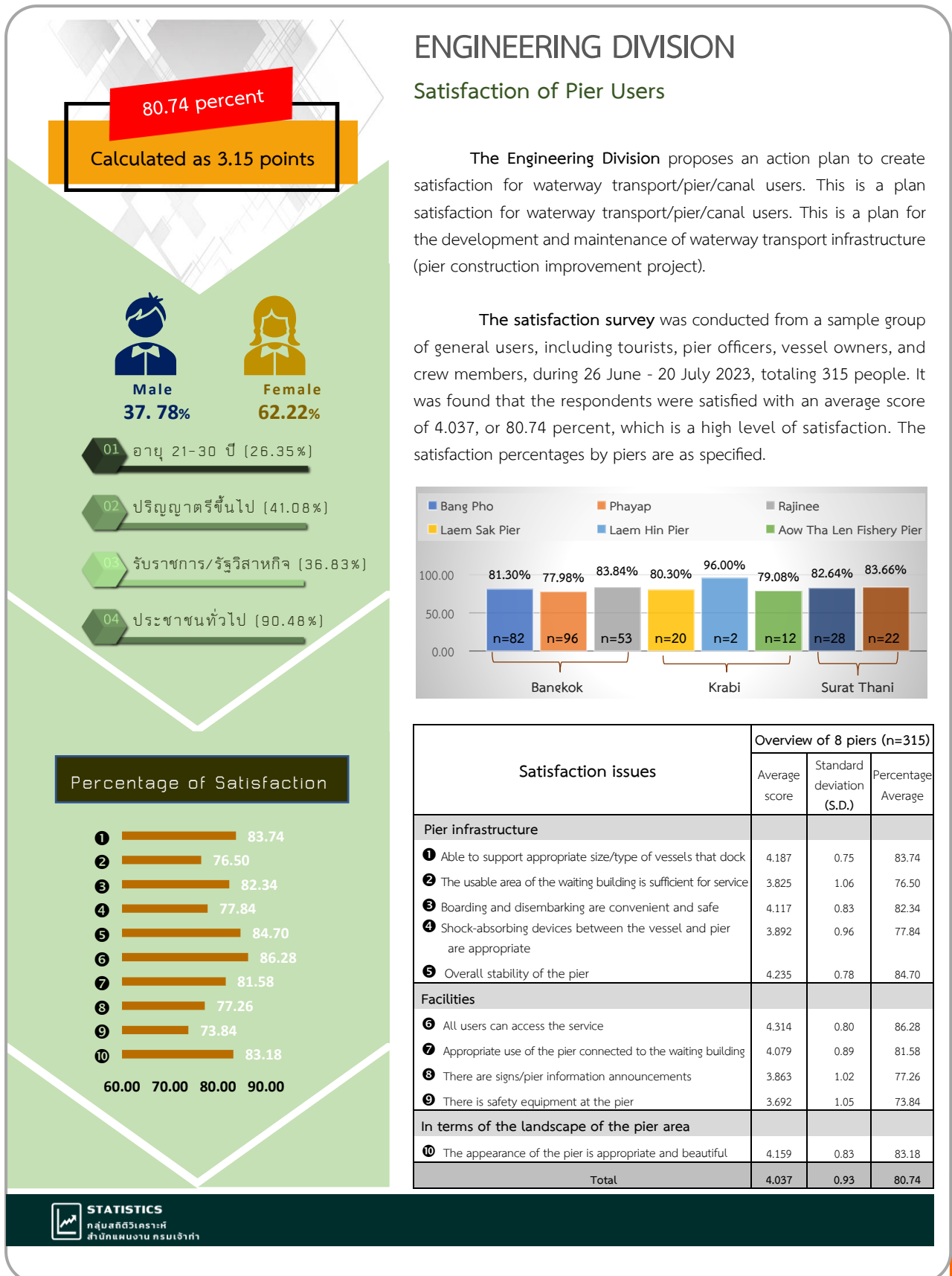
A survey of the satisfaction of users of passenger piers along the Chao Phraya River in Bangkok and its vicinity was conducted to evaluate public satisfaction and dissatisfaction in 4 fields: service process, the service from staff performance, facilities, and service quality. The data will be used to consider the development and improvement of the pier to meet the needs of the public as much as possible.

Table shows the results of the data analysis as follows:

satisfaction /dissatisfaction issues	Average score (n=1,375)	Satisfaction Percentage	Satisfaction level
Service process			
1. Having signs recommending services at the pier	3.778	75.56	High
2. Service process	3.803	76.06	High
Total of Service process	3.791	73.14	High
Service officers			
3. Etiquette of officer's service on the pier	3.846	76.92	High
4. Number of officers providing services at the pier	3.755	75.10	High
5. Pier officers introduction and answering questions	3.818	76.36	High
Total of Service officers	3.806	76.12	High
Facilities			
6. Sufficiency of seating at the pier	3.698	73.96	High
7. Conditions of boarding/disembarking aisles, floor, handrails	3.780	75.60	High
8. Availability of safety equipment at the pier, such as life jackets, lifebuoys, etc.	3.690	73.80	High
Total of Facilities	3.723	74.46	High
Service quality			
9. Condition of rubber bumpers between the boat and the pontoon	3.705	74.10	High
10. Cleanliness of the pier	3.758	75.16	High
11. Condition of the sun/rain shelter (waiting pavilion and walkways)	3.766	75.32	High
12. Pier conditions, such as pier size, handrails, availability	3.812	76.24	High
Total of Service quality	3.760	75.20	High
Grand total	3.767	75.34	High

Satisfaction

of users of Water Transport/Port/Channel for the Year 2023



ENGINEERING DIVISION (CONTINUED)

For additional comments and suggestions, survey respondents have additional comments, separated by pier as follows

No.	Name of the piers	Additional Comments and Suggestions	Frequency
1	Bang Pho Pier (n=82) (Bangkok Metropolis)	Pier management should be planned before construction and renovation to ensure cost-effective use	6
		Facilities such as restrooms that have been built should be opened and managed for maintenance	4
		There are few waiting seats at the pier and some areas are not available for use	3
		The service and manners of pier officers should be supervised	2
		The lighting at the pier at night is insufficient	1
		Having officers provide public relations to inform boats that are about to dock	1
		Having a roof to protect from the sun and rain at the waiting area for boarding and disembarking boats	1
		Valves and drainpipes at the pier should be improved to be proportionate and orderly	1
		The quality of construction materials should be strong and not easily damaged	1
		The inspection hatch cover inside the pontoon is quite obstructive to the walkway for boarding and disembarking. It should move the point or paint it clearly for safety	1
		Having a sign indicating the type of vessel and the color of the flag that is parked at each port clearly	1
			Total
2	Phayap Pier (n=96) (Bangkok Metropolis)	There are few waiting seats at the pier and some areas are not available for use	13
		Pier management should be planned before construction and renovation to ensure cost-effective use	5
		Facilities such as restrooms that have been built should be opened and managed for maintenance	5
		The pier roof cannot protect against rain, causing rain to splash into the waiting area	3
		The structure of the pier obstructs the view of boats that are docking, making it unclear	2
		Having officers provide public relations to inform boats that are about to dock	2
		Shock absorbers should be improved, and safety equipment should be added to the pier	2
		There should be clear signs indicating the types of vessels and sounds that are parked at each pier	1
			Total
3	Rajinee Pier (n=53) (Bangkok Metropolis)	The service and manners of pier officers should be supervised	4
		Pier management should be planned before construction and renovation to ensure cost-effective use	3
		There are few waiting seats at the pier and some areas are not available for use	2
		Facilities such as restrooms that have been built should be opened and maintenance managed	1
		The pier roof cannot protect against rain, causing rain to splash into the waiting area	4
			Total
4	Laem Sak Pier (n=20) (Krabi Province)	Adequate restrooms should be improved and located in convenient areas. There should be a cleaning officer	1
		There should be a pontoon at the boarding and disembarking points	1
			Total
5	Aow Tha Len Fishery Pier (n=12) (Krabi Province)	There should be a pole for tying boats at the pier corner to prevent impact on the boat	1
		The old pier floor is damaged and slippery	1
			Total
6	Thong Sala Pier (n=28) (Surat Thani Province)	Adequate restrooms should be improved and located in convenient areas. There should be a cleaning officer	2
		The completed pier should be ready for actual use	1
		Waiting area for passengers is too few available	1
			Total
7	Had Rin Pier (n=22) (Surat Thani Province)	Adequate restrooms should be improved and located in convenient areas. There should be a cleaning officer	3
		Waiting area for passengers is too few available	1
			Total
Grand Total			81

CHANNEL DEVELOPMENT AND MAINTENANCE BUREAU

SATISFACTION OF CHANNEL USERS

90.58 percent
Calculated as 5 points

Percentage of Satisfaction



Top 3 Additional Suggestions

- 01 ให้มีการขุดลอกต่อเนื่องทุกปี
- 02 เพิ่มความกว้างในการขุดลอก
- 03 นำดินมาถมตลิ่งเพื่อป้องกันตลิ่งพัง

Channel Development and Maintenance Bureau proposes an operation plan to create satisfaction for users of water transport/piers/channels. This plan focuses on dredging and maintaining channels, using the results of the satisfaction survey for the channels that have been completed according to the plan, totaling 50 channels.

A satisfaction survey of a sample group of 1,312 people found that the public was satisfied after dredging the channels with an average score of 4.529, accounting for 90.58 percent, which is at the highest level of satisfaction. The percentage of satisfaction in each issue as specified:

Satisfaction measurement issues (n=1,312)	Average score	Average percentage
1 Public relations to make people in the area understand about the project	4.533	90.66
2 Listening to opinions from people	4.492	89.84
3 Satisfaction with problem solving during the operation	4.549	90.98
4 Management of materials obtained from dredging	4.489	89.78
5 Service of officials	4.581	91.62
Total	4.529	90.58

List of channel samples surveyed

Inland channels (n=827)	Seaside Channels (n=485)
1. Mae Klong River, KM.58, Chet Samian, Photharam, Ratchaburi Province	1. Yanchi Channel, Satun Province
2. Chao Phraya River, KM.264, Pho Na Kham Tok, Sapphaya, Chai Nat Province	2. Bang Duk Channel, Phuket Province
3. Chao Phraya River, KM.243, Bang Krabue, Mueang, Sing Buri Province	3. Tha Sulao Channel, Phang Nga Province
4. Chao Phraya River, KM.219, Ban Paeng, Phrom Buri, Sing Buri Province	4. Bang Niang Channel, Phang Nga Province
5. Tha Chin River, KM.132, Sai Ngam, Bang Len, Nakhon Pathom Province	5. Pulatoh Mudo Channel, Tak Bai, Narathiwat Province
6. Tha Chin River, KM.135, Hin Mun, Bang Len, Nakhon Pathom Province	6. Khlong Samrong Channel (72 nd Anniversary), Mueang, Songkhla Province
7. Khlong Yai Lo, Niyom Chai, Sa Bot, Lop Buri Province	7. Huakhuean Thepha Channel, Thepha, Songkhla Province
8. Pa Sak River, Na Chong, Mueang, Saraburi Province	8. Khlong Sathing Mo Channel, Singhanakhon, Songkhla Province
9. Khlong Khung Phayom, Khung Phayom, Ban Pong, Ratchaburi Province	9. Khlong Yuan Channel, Khuan Khanun, Phatthalung Province
10. Khlong Bang Chakreng, Bang Chakreng, Mueang, Samut Songkhram Province	10. Channels in the area of Bang Liang and Pattaphum Sub-district
11. Chao Phraya River, Pak Nam Pho, Mueang, Nakhon Sawan Province	Khlong Hak & Khlong Pak Bang Phum), Khuan Niang, Songkhla Province
12. Mae Mok River, Khao Kaeo, Thung Salang Sukhothai Province	11. Taluban Channel, Sai Buri, Pattani Province
13. Li River, Si Ta, Ban Hong, Lamphun Province	12. Ban Khlong Yai Channel, Laem Ngop, Trat Province
14. Kham River, Chanchawa, Mae Chan, Chiang Rai Province	13. Laem Ngop Pier Channel, Laem Ngop, Trat Province
15. Wang River, Wang Tai, Wang Nuea, Lampang Province	14. Khlong Bang In Channel, Khlong Yai, Trat Province
16. Lao River, Si Thoi and Mae Phrik, Mae Suang, Chiang Rai Province	15. Khlong Chek Lak Channel, Khlong Yai, Trat Province
17. Mae Kham Mi River, Tammak Tham, Nong Muang Khai, Phrae Province	16. Khlong Na Chorn Thian Channel, Sattahip, Chon Buri Province
18. Tui River, Ban Kho, Mueang Pan, Lampang Province	17. Kui Buri Channel, Kui Buri, Prachuap Khiri Khan Province
19. Lam Aek, Nong Khai, Prathai, Nakhon Ratchasima Province	18. Bang Kung Channel, Mueang, Surat Thani Province
20. Lam Tha Ki, Don Ong, Pho Chai, Roi Et Province	19. Bo Samrong Channel, Pathio, Chumphon Province
21. Lam Sao Yai, Ku Ka Sing, Kaset Wsai, Roi Et Province	20. Bang Saphan Noi Channel, Bang Saphan Noi, Prachuap Khiri Khan
22. Lam Ta Laew, Ko Kaeo, Selaphum, Roi Et Province	21. Tha Chai Channel, Tha Chana, Surat Thani Province
23. Songkhram River, Village No. 10, Kha Sa-at, Sawang Daen Din, Sakon Nakhon	22. Ko Nokkaphao Channel, Don Sak, Surat Thani Province
24. Songkhra River, Ban Om Ko, Ban Dung, Udon Thani Province	23. Thong Tanot Channel, Ko Samui, Surat Thani Province
25. Lam Nam Suai, Wat That, Phen, Udon Thani Province	24. Chumphon Channel, Mueang, Chumphon Province
26. Mun River, Na Nong Phai, Chumphon Buri, Surin Province	



STATISTICS

กลุ่มสถิติวิเคราะห์
สำนักงานงาน กรมเจ้าท่า

90.56 percent

Calculated as 5 points

Gender

Male
16.67%Female
83.33%

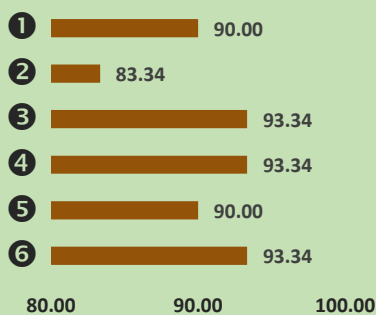
Age

Mostly 31–40 years (50.00%)
33.33% 66.67%

Education

Bachelor Degree Upwards (66.67%)

Percentage of Satisfaction



SHIP STANDARD REGISTRATION BUREAU

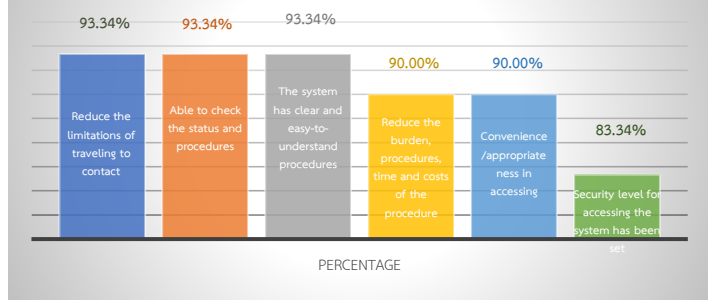
Service recipients' satisfaction with

"Requesting permission to bring foreign vessels into Thai waters via the online system"

Ship Standard Registration Bureau proposes an action plan to create user satisfaction with waterway transport/piers/channels as a plan related to other requests for permission to bring foreign vessels into Thai waters via the online system.

The satisfaction survey was conducted from a sample group of applicants, the Thai Ship Owners Association, the Thai Yacht Business Association, and related persons during July 3-20, 2023, totaling 6 persons. The survey revealed that all respondents had the status of applicants and were satisfied with an average score of 4.528, or 90.56 percent, which is the highest level of satisfaction. By ranking the issues with the highest to lowest satisfaction percentage as follows:

Ranked by satisfaction percentage

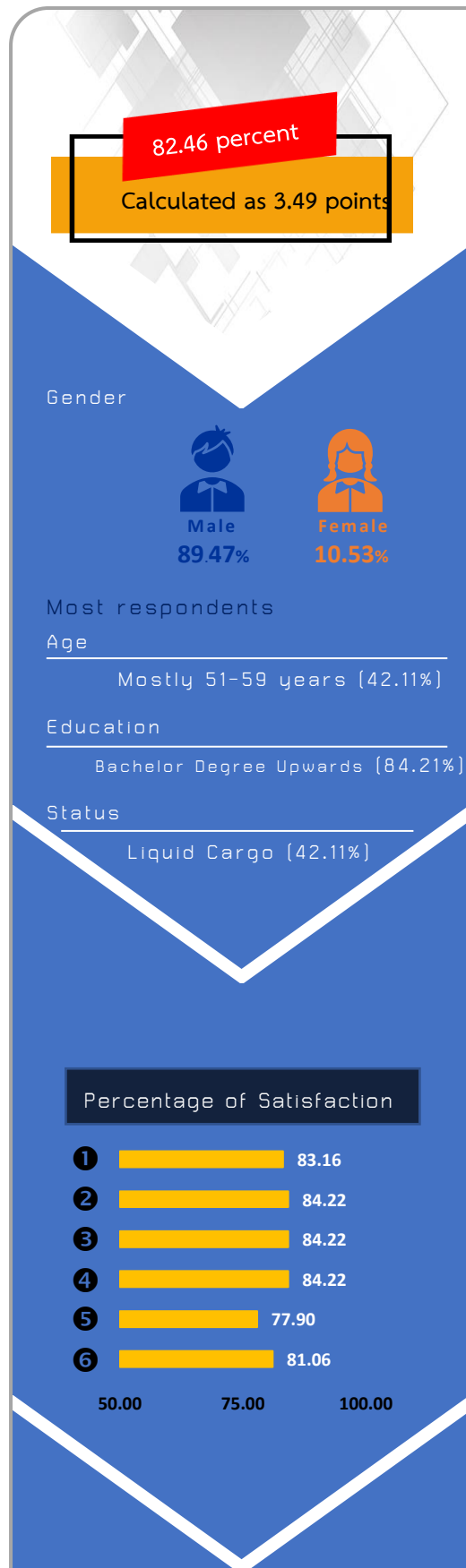


Satisfaction issues (n=6)	Average score	Standard deviation (S.D.)	Percentage Average
1 Convenience/appropriateness in accessing the system	4.500	0.55	90.00
2 Security level for accessing the system has been set	4.167	0.75	83.34
3 The system has clear and easy-to-understand procedures	4.667	0.52	93.34
4 Able to check the status and procedures	4.667	0.52	93.34
5 Reduce the burden, procedures, time and costs	4.500	0.55	90.00
6 Reduce the limitations of traveling to contact	4.667	0.52	93.34
Grand total	4.528	0.55	90.56

For additional comments and suggestions, most respondents were quite satisfied with the service. The only issue was the payment of fees, which they wanted to see a cash payment system



STATISTICS
กลุ่มสถิติวิเคราะห์
สำนักงาน กสอ.เจ้าท่า

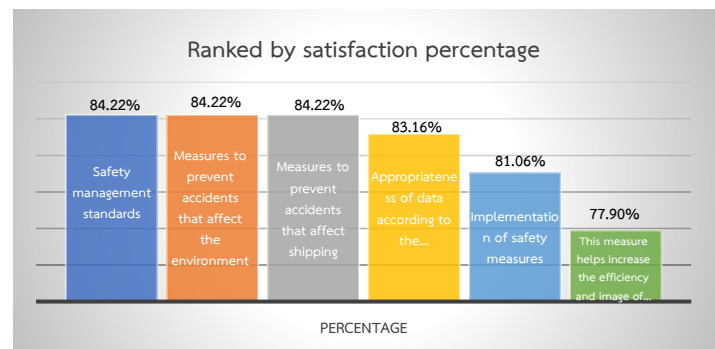


SHIP STANDARD BUREAU

SATISFACTION WITH SAFETY MEASURES AND ACCIDENT PREVENTION FOR SHIPS IN THE LIQUID CARRIER GROUP (TANKERS)

The Ship Standard Bureau proposes an action plan to create satisfaction for users of waterway transport services/piers/channels. It is a plan on safety measures and accident prevention for ships in the liquid carrier group (Tankers), except for ships that are used to carry fresh water tanker, gas carrier and asphalt tanker.

The satisfaction survey was conducted from a sample group of target entrepreneurs, including liquid warehouses and piers, during July 3-14, 2023. 19 respondents were found to be satisfied with an average score of 4.123, or 82.46 percent, which is at a high level. The items with the highest to lowest satisfaction percentage are ranked as follows:



Satisfaction issues (n=19)	Average score	Standard deviation (S.D.)	Percentage Average
1 Appropriateness of data according to the announcement of the Marine Department No. 184/2565	4.158	0.76	83.16
2 Measures to prevent accidents such as fires, explosions that affect shipping	4.211	0.79	84.22
3 Measures to prevent accidents that affect the environment	4.211	0.79	84.22
4 Safety management standards	4.211	0.79	84.22
5 This measure helps increase the efficiency and image of the Thai fleet	3.895	0.85	77.90
6 Implementation of safety measures by the Ship Standard Bureau	4.053	0.74	81.06
Grand total	4.123	0.77	82.46

For additional comments and suggestions, most respondents were fairly satisfied with the implementation of this measure. The only issue was that they wanted the Marine Department to increase communication and update information to relevant parties regularly.



91.72 percent

Calculated as 5 points

Gender

Male
83.24%Female
16.76%

Age

Mostly 21-30 years (42.16%)

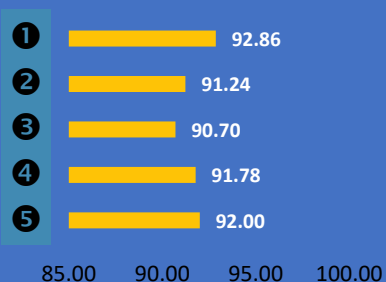
79.49%

20.51%

Education

Bachelor Degree Upwards (41.08%)

Percentage of Satisfaction



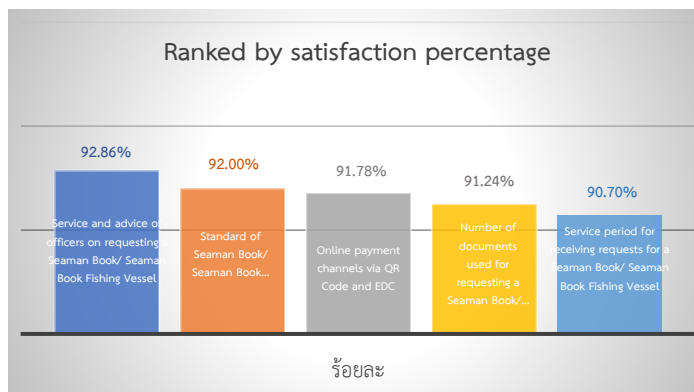
SEAFARERS STANDARD DIVISION

SATISFACTION OF SEAMAN IN REQUESTING FOR SEAMAN BOOK AND SEAMAN BOOK FOR FISHING VESSEL

The Seafarers Standard Division proposes an action plan to create user satisfaction of waterway transport services, piers/channels. It is a plan to create satisfaction for seafarers when applying for Seaman Book and Seaman Book for Fishing Vessel.

The satisfaction survey was conducted from a sample group of seafarers who requested for Seaman Book and Seaman Book for a Fishing Vessel during 8 June to 10 July 2023, totaling 185 people. The survey indicated that the respondents were satisfied with an average score of 4.586, or 91.72 percent, which is the highest level of satisfaction. By ranking the issues with the highest to lowest satisfaction percentage as follows:

Ranked by satisfaction percentage



Satisfaction issues (n=185)	Average score	Standard deviation (S.D.)	Percentage Average
1 Service and advice of officers on requesting a Seaman Book/ Seaman Book Fishing Vessel	4.643	0.51	92.86
2 Number of documents used for requesting a Seaman Book/ Seaman Book Fishing Vessel	4.562	0.58	91.24
3 Service period for receiving requests for a Seaman Book/ Seaman Book Fishing Vessel	4.535	0.65	90.70
4 Online payment channels via QR Code and EDC	4.589	0.60	91.78
5 Standard of Seaman Book/ Seaman Book Fishing Vessel	4.600	0.56	92.00
Grand total	4.586	0.58	91.72

For additional comments and suggestions, most respondents were fairly satisfied with the implementation of this measure. The only issue was that they wanted the Marine Department to increase communication and update information to relevant parties regularly.



STATISTICS
กลุ่มสถิติวิเคราะห์
สำนักงาน กรมเจ้าท่า

68.06 percent

Calculated as 1 points

Gender



Male

18.84%



Female

81.16%

Most respondents

Age

21-30 years (32.83%)

Education

Bachelor Degree Upwards (86.32%)

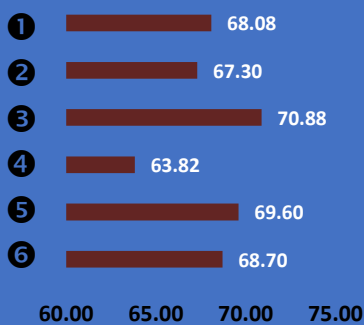
Occupation

Officers/Private employees (66.87%)

Status

Public users (98.48%)

Percentage of Satisfaction



MARINE SAFETY AND ENVIRONMENT BUREAU

SATISFACTION OF SERVICE RECIPIENTS WITH
FACILITATION OF PIERS AND NAVIGATION IN SAEN SAEP CANAL

MARINE SAFETY AND ENVIRONMENT BUREAU PROPOSES AN ACTION PLAN TO CREATE USER SATISFACTION OF WATERWAY TRANSPORT/PIERS/CHANNELS. IT IS A PLAN REGARDING THE FACILITATION OF PIERS AND NAVIGATION IN SAEN SAEP CANAL.

The satisfaction survey was conducted from a sample group of people who use Saen Saep Canal passenger boats, including boat owners, boat captains, boat operators, boat company officials, and tourists. The survey was conducted on July 11, 2023, with 329 people. It was found that the respondents were satisfied with an average score of 3.403, or 68.06 percent, which is at a moderate level. The satisfaction percentage of each issue is as follows

Satisfaction Issues (n=329)	Average score	Standard deviation (S.D.)	Percentage Average
1 Safety publicity signs at the pier	3.404	0.84	68.08
2 Number of Marine Department officers stationed at the pier	3.365	0.91	67.30
3 Service provided by Marine Department officers stationed at the pier	3.544	0.93	70.88
4 Availability of safety equipment at the pier	3.191	0.93	63.82
5 Safety care of Marine Department officers during rush hours	3.480	0.96	69.60
6 Supervision of ship captains and helmsmen by the Marine Department	3.435	0.91	68.70
Grand total	3.403	0.92	68.06

Additional Comments and Suggestions

Comments and Suggestions Issues	Frequency
1. Boats should be organized during rush hour to prevent people from being stranded	10
2. Control and train the manners of officer on the boat and at the pier	7
3. Improve overall operations in all aspects to be better in a way that shows development and change	7
4. There should be sufficient safety equipment	7
5. Increase the number of officers on the pier and arrange the order of boat trips continuously	6
6. Strictly control and supervise the speed of boat driving	6
7. The number of passengers on the boat should be strictly limited	6
8. There should be clear signs indicating the route and sailing time	4
9. The officer are not fully responsible for taking care of the safety of passengers	2
10. There should be an order for waiting for the boat for safety	2
11. There should be officer who can answer questions from foreigners	2
12. There should be signs that are helpful to children, the elderly, and pregnancy	2
13. During the arrival period, officers are not consistent. Some days, there are no officers	1
14. Supervise the boat to pick up and drop off passengers when there are passengers waiting at the pier	1
15. There should be a channel to announce the holidays for widespread information	1
16. There should be a good and fast care system for coordinating and transferring patients when there is a water accident	1
17. I want the officer to do their best more than this. Due to the large number of passengers	1
18. Need to prepare and supervise especially during the rainy season	1
Total	67



STATISTICS

กลุ่มสถิติวิเคราะห์
สำนักงาน กสทช.

93.54 percent

Calculated as 5 points

Gender



Male

83.62%



Female

16.38%

Most respondents

Age

41–50 years (39.55%)

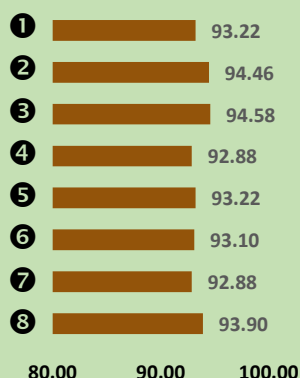
Education

Bachelor Degree (68.93%)

Status

Ship Agents (45.76%)

Percentage of Satisfaction

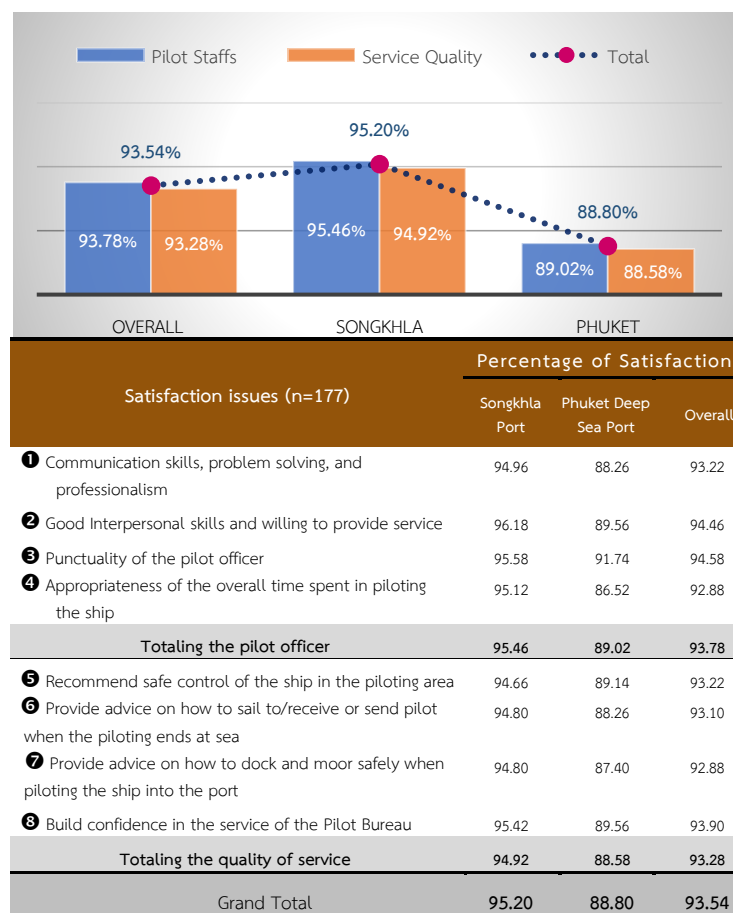


PILOT BUREAU

SERVICE RECIPIENT SATISFACTION ON THE PILOT SERVICE IN SONGKHLA PORT AND PHUKET DEEP SEA PORT

THE PILOT BUREAU proposes an action plan to create satisfaction for waterway transport/port/channel users as a plan for piloting of Songkhla Port and Phuket Deep Sea Port.

THE SATISFACTION SURVEY was conducted among service recipients, ship representatives, ship captains who provided pilot services, and port officers during 23 June – 31 July 2023, totaling 177 people. It indicated that the respondents were overall satisfied with an average score of 4.677, or 93.54 percent, which was the highest level of satisfaction. The percentage of satisfaction was divided by port area and overall picture of each port as follows:



For additional comments and suggestions, most respondents were fairly satisfied with the performance of the pilot officer. There are only additional issues regarding the need for VTS to take care of Songkhla Port because there are many ships, during the night the ships cannot communicate by land, and to increase the recommended anchor drop points, including increasing the number of pilots.



PART 2

Statistical Data Report for the Fiscal Year 2014-2023



Statistics on Freight Transport Data

Statistical Data of Water cargo transport in the Chao Phraya and Pa Sak Rivers for 2014-2023

Table 1: The number of cargo transported ships in the Chao Phraya and Pa Sak Rivers, classified by ship type, downbound – upbound for 2014-2023.

Calendar Year		Carrier Vessels	Cargo Vessels		Total
			Tugboats	Lighter	
2014	Downbound	130	10,864	37,690	59,548
	Upbound	328	3,538	11,392	18,796
	Total	458	14,402	49,082	78,344
2015	Downbound	126	10,290	35,626	56,332
	Upbound	604	3,700	12,836	20,840
	Total	730	13,990	48,462	77,172
2016	Downbound	110	9,474	33,250	42,834
	Upbound	564	3,442	12,018	16,024
	Total	674	12,916	45,268	58,858
2017	Downbound	128	10,234	36,576	46,938
	Upbound	454	4,438	11,580	16,472
	Total	582	14,672	48,156	63,410
2018	Downbound	108	10,294	36,382	46,784
	Upbound	524	3,830	13,480	17,834
	Total	632	14,124	49,862	64,618
2019	Downbound	146	9,594	33,740	43,480
	Upbound	562	4,094	14,100	18,756
	Total	708	13,688	47,840	62,236
2020	Downbound	150	8,298	29,280	37,728
	Upbound	496	3,736	12,466	16,698
	Total	646	12,034	41,746	54,426
2021	Downbound	160	6,292	21,838	28,290
	Upbound	616	4,054	14,190	18,860
	Total	776	10,346	36,028	47,150
2022	Downbound				18,892
	Upbound				17,708
	Total				36,600
2023	Downbound				12,671
	Upbound				9,785
	Total				22,456

Table 2: The volume of cargo transported in the Chao Phraya and Pa Sak Rivers, classified by goods type for 2014-2023.

No.	Particulars	Calendar Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	Rice	2,766,008	3,105,022	2,677,506	3,68,1350	3,008,244	2,173,862	1,821,144	1,846,598	3,008,968	3,116,466
2	Corn	1,131,000	234,800	478,624	563,600	448,528	188,440	203,608	211,360	286,349	213,595
3	Cassava	2,301,600	2,209,704	4,618,520	5,889,200	3,283,640	2,099,064	3,231,560	4,691,840	4,251,401	3,125,867
4	Wood & Wood product	104,144	233,392	227,088	136,720	171,880	131,288	63,288	14,400	-	19880.68
5	Agricultural products	-	-	-	-	287,800	1,082,560	1,578,232	1,029,560	216,235	557,882
6	Animal food	523,400	1,190,000	1,399,440	768,200	911,440	1,434,920	1,146,456	1,020,040	1,611,317	1,985,961
7	Sugar	1,264,400	1,274,000	1,158,432	1,097,600	1,727,160	2,292,120	958,856	50,002	655,752	706,501
8	Other consumer	3,069,700	2,272,940	600	-	80,000	462,880	252,776	103,600	-	-
9	Fuel ore	12,083,000	13,243,800	13,130,560	11,733,400	14,926,510	14,443,270	13,817,724	15,882,250	12,731,691	10,084,235
10	Petroleum product	257,730	497,502	386,804	302,558	378,374	395,466	352,974	443,876	432,383	388,484
11	Metal product	223,678	265,198	414,388	734,600	617,032	690,856	438,428	846,062	363,973	132,246
12	Soil, stone, sand	12,807,080	12,003,062	10,876,156	11,930,570	13,096,188	12,280,804	10,845,340	8,155,072	3,436,054	3,815,322
13	Cement	7,741,812	8,562,916	9,870,264	10,106,754	10,545,058	11,867,424	9,516,802	4,984,700	6,287,713	3,709,099
14	Other ores	1,279,600	1,738,130	2,048,424	1,660,198	1,913,208	1,396,260	1,467,036	2,298,836	1,456,968	1,290,983
15	Construction material	16,910	7,720	9,720	43,320	6,400	8,728	6,536	-	6,867	2,303
16	Fertilizer	4,376,600	3,889,800	2,882,400	4,159,000	4,204,700	4,990,040	3,523,052	4,826,480	4,224,731	3,740,353
17	Chemical	104,200	90,800	88,000	216,000	101,920	54,608	24,200	-	23,508	27,116
18	Tools/equipment	-	2,048	2,178	2,508	594	-	-	-	-	-
19	Miscellaneous	62,000	86,600	57,680	-	30,760	6,768	-	-	235	-
Total		50,112,862	50,907,434	50,326,784	53,025,578	55,739,436	55,999,358	49,248,012	46,404,676	38,994,145	32,916,293

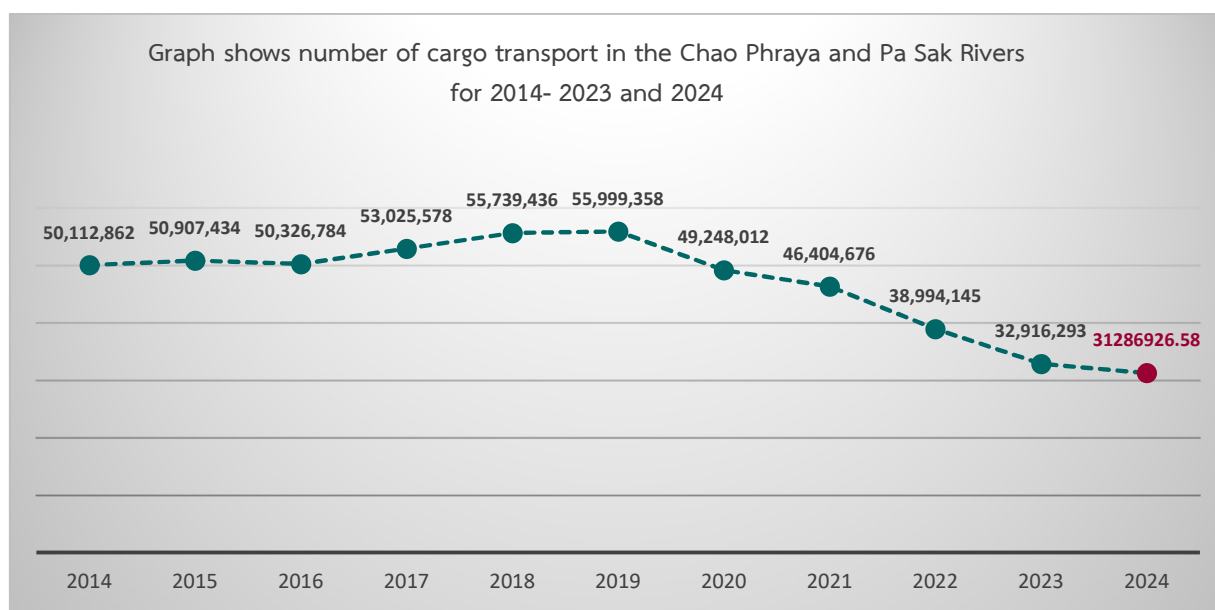


Table 3: The volume of goods, classified by goods type and Downbound-Upbound Ships for 2014-2023.

Unit: Tons

Calendar Year		Category of Goods																			Total
		Rice	Agricultural products	Corn	Cassava	Wood	Animal food	Sugar	Other consumers	Fuel ore	Petroleum product	Metal product	oil, stone, sand	Cement	Other ores	Construction material	Fertilizer	Chemical	Tools/ equipment	Miscellaneous	
2014	Downbound	2,629,808	-	1,131,000	2,301,600	3,200	-	1,264,400	3,069,700	-	-	1,278	12,807,080	7,741,812	847,980	910	48,000	-	-	-	31,846,768
	Upbound	136,200	-	-	-	100,944	523,400	-	-	12,083,000	257,730	222,400	-	-	431,620	16,000	4,328,600	104,200	-	62,000	18,266,094
	Total	2,766,008	-	1,131,000	2,301,600	104,144	523,400	1,264,400	3,069,700	12,083,000	257,730	223,678	12,807,080	7,741,812	1,279,600	16,910	4,376,600	104,200	-	62,000	50,112,862
2015	Downbound	2,699,422	-	234,800	2,209,704	840	-	1,274,000	2,229,740	-	-	15,778	11,964,662	8,562,916	1,270,990	7,720	34,400	-	-	-	30,504,972
	Upbound	405,600	-	-	-	232,552	1,190,000	-	43,200	13,243,800	497,502	249,420	38,400	-	467,140	-	3,855,400	90,800	2,048	86,600	20,402,462
	Total	3,105,022	-	234,800	2,209,704	233,392	1,190,000	1,274,000	2,272,940	13,243,800	497,502	265,198	12,003,062	8,562,916	1,738,130	7,720	3,889,800	90,800	2,048	86,600	50,907,434
2016	Downbound	2,166,306	-	478,624	4,615,520	-	-	1,158,432	600	-	-	25,920	10,876,156	9,870,264	1,514,384	5,720	3,000	-	-	-	30,714,926
	Upbound	511,200	-	-	3,000	227,088	1,399,440	-	-	13,130,560	386,804	388,468	-	-	534,040	4,000	2,879,400	88,000	2,178	57,680	19,611,858
	Total	2,677,506	-	478,624	4,618,520	227,088	1,399,440	1,158,432	600	13,130,560	386,804	414,388	10,876,156	9,870,264	2,048,424	9,720	2,882,400	88,000	2,178	57,680	50,326,784
2017	Downbound	-	-	563,600	5,888,200	15,000	-	1,097,600	-	-	-	77,800	11,930,570	10,106,754	1,492,598	43,320	-	-	-	-	34,452,592
	Upbound	3,237,150	-	-	1,000	121,720	768,200	-	-	11,733,400	302,558	656,800	-	-	167,600	-	4,159,000	216,000	2,508	-	18,572,986
	Total	3,681,350	-	563,600	5,889,200	136,720	768,200	1,097,600	-	11,733,400	302,558	734,600	11,930,570	10,106,754	1,660,198	43,320	4,159,000	216,000	2,508	-	53,025,578
2018	Downbound	2,873,044	-	448,528	3,283,640	38,000	-	1,676,760	80,000	-	-	43,000	13,096,188	10,545,058	1,245,280	6,400	-	-	-	-	33,335,898
	Upbound	135,200	287,800	-	-	133,880	911,440	50,400	-	14,926,510	378,374	574,032	-	-	667,928	-	4,204,700	101,920	594	30,760	22,403,538
	Total	3,008,244	287,800	448,528	3,283,640	171,880	911,440	1,727,160	80,000	14,926,510	378,374	617,032	13,096,188	10,545,058	1,913,208	6,400	4,204,700	101,920	594	30,760	55,739,436
2019	Downbound	2,173,862	-	188,440	2,099,064	35,808	-	2,275,320	417,880	-	-	29,272	12,280,804	11,867,424	988,300	8,728	3,680	-	-	-	32,368,582
	Upbound	-	1,082,560	-	-	95,480	1,434,920	16,800	45,000	14,443,270	395,466	661,584	-	-	407,960	-	4,986,360	54,608	-	6,768	23,630,776
	Total	2,173,862	1,082,560	188,440	2,099,064	131,288	1,434,920	2,292,120	462,880	14,443,270	395,466	690,856	12,280,804	11,867,424	1,396,260	8,728	4,990,040	54,608	-	6,768	55,999,358
2020	Downbound	1,821,144	13,200	203,608	3,231,560	8,000	13,200	958,856	237,776	-	-	27,328	10,845,340	9,516,802	1,094,044	6,536	-	-	-	-	27,977,394
	Upbound	-	1,565,032	-	-	55,288	1,133,256	-	15,000	13,817,724	352,974	411,100	-	-	372,992	-	3,523,052	24,200	-	-	21,270,618
	Total	1,821,144	1,578,232	203,608	3,231,560	63,288	1,146,456	958,856	252,776	13,817,724	352,974	438,428	10,845,340	9,516,802	1,467,036	6,536	3,523,052	24,200	-	-	49,248,012
2021	Downbound	1,846,598	4,400	211,360	4,691,840	14,400	39,040	50,002	-	-	-	78,000	8,155,072	4,984,700	1,598,076	-	40,000	-	-	-	21,713,488
	Upbound	-	1,025,160	-	-	-	981,000	-	103,600	15,882,250	443,876	768,062	-	-	700,760	-	4,786,480	-	-	-	24,691,188
	Total	1,846,598	1,029,560	211,360	4,691,840	14,400	1,020,040	50,002	103,600	15,882,250	443,876	846,062	8,155,072	4,984,700	2,298,836	-	4,826,480	-	-	-	46,404,676
2022	Downbound	3,008,968	-	286,349	4,251,403	-	33,994	655,751	-	-	10,522	47,000	3,436,054	6,287,713	600,355	1,548	37,985	-	-	235	18,657,877
	Upbound	-	216,235	-	-	-	1,577,324	-	-	12,541,694	421,860	316,974	-	-	1,046,610	5,318	4,186,745	23,508	-	-	20,336,268
	Total	3,008,968	216,235	286,349	4,251,403	-	1,611,318	655,751	-	12,541,694	432,382	363,974	3,436,054	6,287,713	1,646,965	6,866	4,224,730	23,508	-	235	38,994,145
2023	Downbound	3,113,466	4,392	116,780	3,125,502	19,881	57,984	706,501	-	-	-	31,225	3,815,322	3,534,661	1,197,918	2,303	61,162	-	-	-	15,787,095
	Upbound	3,000	553,491	96,815	365	-	1,927,977	-	-	10,084,235	388,484	101,021	-	174,438	93,065	-	3,679,191	27,116	-	-	17,129,198
	Total	3,116,466	557,882	213,595	3,125,867	19,881	1,985,961	706,501	-	10,084,235	388,484	132,246	3,815,322	3,709,099	1,290,983	2,303	3,740,353	27,116	-	-	32,916,293

Statistical data of

Water cargo transport in coastal port areas *for 2014-2023*

Table 4: The number of arrival – departure vessels of foreign trade vessels and coastal trade vessels in the coastal port areas for 2014-2023.

Unit: Trips

Year	Foreign trade vessels			Coastal trade vessels			Total		
	Arrival	Departure	Total	Arrival	Departure	Total	Arrival	Departure	Total
2014	35,133	34,847	69,980	30,394	30,428	60,822	65,527	65,275	130,802
2015	43,150	38,054	81,204	34,205	34,041	68,246	77,355	72,095	149,450
2016	48,857	43,677	92,534	34,407	34,343	68,750	83,264	78,020	161,284
2017	46,572	43,464	90,036	37,915	38,108	76,023	84,487	81,572	166,059
2018	44,321	40,096	84,417	37,339	37,346	74,685	81,660	77,442	159,102
2019	40,127	36,641	76,768	34,941	34,952	69,893	75,068	71,593	146,661
2020	39,339	35,778	75,117	31,967	32,004	63,971	71,306	67,782	139,088
2021	36,814	40,108	76,922	38,145	38,710	76,855	74,959	78,818	153,777
2022	40,636	41,526	82,162	34,813	34,767	69,580	75,449	76,293	151,742
2023	40,072	41,516	81,588	34,894	34,558	69,452	74,966	76,074	151,040

The number of arrival – departure vessels of foreign and coastal trade vessels in the coastal port areas for 2014-2023.

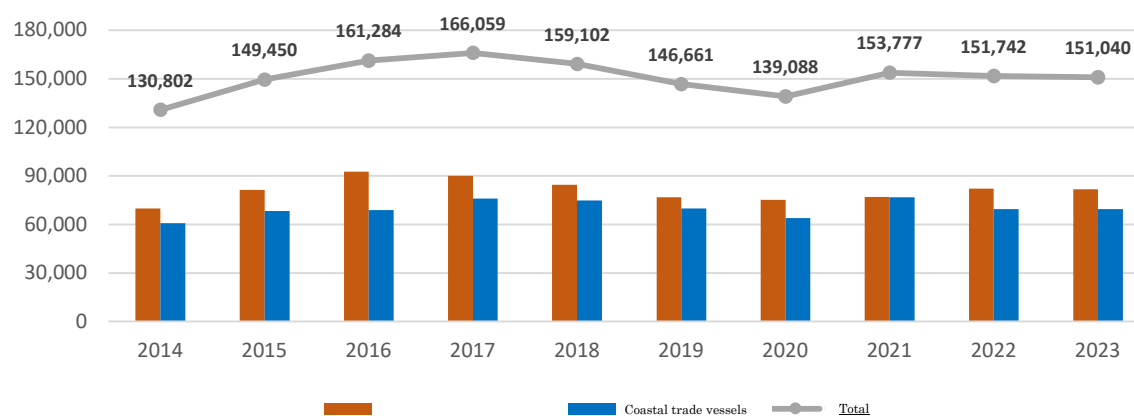


Table 5: The number of vessels, classified by Customs House of foreign trade vessels and coastal trade vessels for 2014-2023.

Unit: Vessel trips

No.	Customs		2014			2015			2016			2017			2018		
			Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total
1	Bangkok	Bangkok	-	-	-	7,769	4,697	12,466	7,944	4,692	12,636	7,921	4,400	12,321	7,920	4,134	12,054
2	Khlong Yai	Trat	-	6,494	6,494	-	7,015	7,015	-	7,892	7,892	-	6,504	6,504	-	3,841	3,841
3	Map Ta Phut	Rayong	10,367	7,258	17,625	10,287	7,742	18,029	10,627	7,465	18,092	10,880	6,733	17,613	11,559	7,719	19,278
4	Laem Chabang	Chon buri	24,022	18,028	42,050	23,922	19,078	43,000	23,488	19,122	42,610	27,718	20,756	48,474	26,546	19,874	46,420
5	Chachoengsao	Chachoengsao	484	195	679	269	248	517	374	142	516	296	154	450	400	177	577
6	Samut Prakan	Samut Prakan	12,862	-	12,862	13,206	-	13,206	12,789	-	12,789	15,510	-	15,510	14,375	-	14,375
7	Samut Sakhon	Samut Sakhon	3,343	450	3,793	3,285	244	3,529	3,346	324	3,670	3,252	221	3,473	3,135	157	3,292
8	Mae Klong	Samut Songkhram	1,835	140	1,975	1,530	85	1,615	1,492	77	1,569	1,618	68	1,686	1,514	76	1,590
9	Chanthaburi	Chanthaburi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Prachuap Khiri Khan	Prachuap Khiri Khan	446	243	689	241	229	470	443	299	742	365	284	649	389	313	702
11	Chumphon	Chumphon	298	-	298	327	-	327	370	-	370	306	-	306	376	-	376
12	Ban Don	Surat Thani	4,105	1,838	5,943	4,315	1,820	6,135	4,924	1,530	6,454	5,173	1,566	6,739	5,252	1,456	6,708
13	Ko Samui	Surat Thani	13	158	171	16	168	184	18	160	178	20	169	189	20	137	157
14	Nakhon Si Thammarat	Nakhon Si Thammarat	44	207	251	46	193	239	12	136	148	-	122	122	17	178	195
15	Si Chon	Nakhon Si Thammarat	843	319	1,162	701	252	953	752	239	991	633	199	832	669	202	871
16	Songkhla	Songkhla	2,077	7,434	9,511	2,299	8,062	10,361	2,123	6,965	9,088	2,276	6,711	8,987	2,447	6,542	8,989
17	Pattani	Pattani	-	102	102	-	128	128	-	313	313	-	678	678	-	453	453
18	Tak Bai	Narathiwat	-	1,796	1,796	-	1,840	1,840	-	1,625	1,625	-	1,590	1,590	-	1,305	1,305
19	Ranong	Ranong	-	19,019	19,019	-	22,892	22,892	-	35,830	35,830	-	34,466	34,466	-	29,774	29,774
20	Phuket	Phuket	83	1,064	1,147	33	1,374	1,407	48	1,192	1,240	55	1,094	1,149	66	1,057	1,123
21	Krabi	Krabi	-	1,462	1,462	-	1,207	1,207	-	680	680	-	561	561	-	521	521
22	Kan Tang	Trang	-	1,850	1,850	-	1,815	1,815	-	2,000	2,000	-	1,809	1,809	-	1,622	1,622
23	Satun	Satun	-	1,923	1,923	-	2,115	2,115	-	1,848	1,848	-	1,951	1,951	-	4,879	4,879
Total			60,822	69,980	130,802	68,246	81,204	149,450	68,750	92,531	161,281	76,023	90,036	166,059	74,685	84,417	159,102

Table 5 (Continued)

Unit: Vessel trips

No.	Customs		2019			2020			2021			2022			2023		
			Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total
1	Bangkok	Bangkok	7,807	3,812	11,619	7,038	3,424	10,462	28,639	7,273	35,912	22,691	7,190	29,881	15,076	5,827	20,903
2	Khlong Yai	Trat	-	3,287	3,287	-	2,112	2,112	17	1,562	1,579	5	1,413	1,418	2	454	456
3	Map Ta Phut	Rayong	10,116	6,972	17,088	9,802	6,943	16,745	11,482	7,924	19,406	10,925	6,983	17,908	5,546	4,453	9,999
4	Laem Chabang	Chon buri	24,796	19,550	44,346	21,711	18,132	39,843	22,383	20,110	42,493	22,464	20,396	42,860	13,437	16,377	29,814
5	Chachoengsao	Chachoengsao	701	183	884	852	147	999	-	-	-	-	-	-			
6	Samut Prakan	Samut Prakan	12,859	-	12,859	10,759	-	10,759	-	-	-	-	-	-			
7	Samut Sakhon	Samut Sakhon	3,204	229	3,433	3,264	182	3,446	-	-	-	-	-	-			
8	Mae Klong	Samut Songkhram	1,671	28	1,699	1,714	-	1,714	4,583	297	4,880	5,317	335	5,652	2,900	159	3,059
9	Chanthaburi	Chanthaburi	-	-	-	-	-	-	2	-	2	10	-	10	-	-	-
10	Prachuap Khiri Khan	Prachuap Khiri Khan	448	248	696	370	182	552	260	317	577	90	262	352	13	140	153
11	Chumphon	Chumphon	317	-	317	363	-	363	316	-	316	353	-	353	149	-	149
12	Ban Don	Surat Thani	4,932	1,277	6,209	5,157	1,171	6,328	4,361	1,794	6,155	4,548	1,704	6,252	2,297	436	2,733
13	Ko Samui	Surat Thani	18	121	139	2	59	61	26	16	42	43	4	47	13	-	13
14	Nakhon Si Thammarat	Nakhon Si Thammarat	36	121	157	9	121	130	3	137	140	6	129	135	-	43	43
15	Si Chon	Nakhon Si Thammarat	707	176	883	803	228	1,031	646	207	853	687	138	825	338	52	390
16	Songkhla	Songkhla	2,239	5,659	7,898	2,119	5,115	7,234	3,516	3,646	7,162	1,849	4,102	5,951	1,464	1,742	3,206
17	Pattani	Pattani	-	110	110	-	14	14	118	53	171	67	36	103	14	-	14
18	Tak Bai	Narathiwat	-	847	847	-	292	292	65	212	277	60	63	123	28	9	37
19	Ranong	Ranong	-	26,864	26,864	-	30,599	30,599	70	30,249	30,319	71	32,613	32,684	1	5,013	5,014
20	Phuket	Phuket	42	801	843	8	519	527	184	592	776	147	510	657	9	188	197
21	Krabi	Krabi	-	430	430	-	385	385	117	373	490	133	282	415	7	130	137
22	Kan Tang	Trang	-	1,525	1,525	-	1,813	1,813	45	1,461	1,506	73	1,699	1,772	23	616	639
23	Satun	Satun	-	4,528	4,528	-	3,679	3,679	22	699	721	41	4,303	4,344	16	16	32
Total			69,893	76,768	146,661	63,971	75,117	139,088	76,855	76,922	153,777	69,580	82,162	151,742	41,333	35,655	76,988

Table 6: The number of vessels, classified by Customs House of Arrival-Departure vessels for 2014-2023.

Unit: Vessel trips

No.	Customs		2014			2015			2016			2017			2018		
			Arrival	Depart.	Total	Arrival	Depart.	Total	Arrival	Depart.	Total	Arrival	Depart.	Total	Arrival	Depart.	Total
1	Bangkok	Bangkok	-	-	-	8,598	3,868	12,466	8,635	4,001	12,636	8,260	4,061	12,321	8,007	4,047	12,054
2	Khlong Yai	Trat	3,305	3,189	6,494	3,493	3,522	7,015	3,860	4,032	7,892	3,159	3,345	6,504	1,893	1,948	3,841
3	Map Ta Phut	Rayong	8,806	8,819	17,625	8,975	9,054	18,029	9,022	9,070	18,092	8,777	8,836	17,613	9,579	9,699	19,278
4	Laem Chabang	Chon buri	21,305	20,745	42,050	21,647	21,353	43,000	21,312	21,298	42,610	23,607	24,867	48,474	22,842	23,578	46,420
5	Chachoengsao	Chachoengsao	341	338	679	262	255	517	267	249	516	223	227	450	292	285	577
6	Samut Prakan	Samut Prakan	6,436	6,426	12,862	6,629	6,577	13,206	6,394	6,395	12,789	7,768	7,742	15,510	7,553	6,822	14,375
7	Samut Sakhon	Samut Sakhon	1,896	1,897	3,793	1,767	1,762	3,529	1,839	1,831	3,670	1,743	1,730	3,473	1,645	1,647	3,292
8	Mae Klong	Samut Songkhram	990	985	1,975	806	809	1,615	785	784	1,569	839	847	1,686	812	778	1,590
9	Chanthaburi	Chanthaburi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Prachuap Khiri Khan	Prachuap Khiri Khan	315	374	689	227	243	470	369	373	742	328	321	649	364	338	702
11	Chumphon	Chumphon	148	150	298	163	164	327	184	186	370	149	157	306	189	187	376
12	Ban Don	Surat Thani	2,975	2,968	5,943	3,060	3,075	6,135	3,268	3,186	6,454	3,367	3,372	6,739	3,409	3,299	6,708
13	Ko Samui	Surat Thani	86	85	171	88	96	184	98	80	178	97	92	189	81	76	157
14	Nakhon Si Thammarat	Nakhon Si Thammarat	125	126	251	118	121	239	73	75	148	62	60	122	98	97	195
15	Si Chon	Nakhon Si Thammarat	588	574	1,162	477	476	953	496	495	991	416	416	832	434	437	871
16	Songkhla	Songkhla	4,799	4,712	9,511	5,278	5,083	10,361	4,667	4,421	9,088	4,552	4,435	8,987	4,559	4,430	8,989
17	Pattani	Pattani	51	51	102	70	58	128	182	131	313	341	337	678	233	220	453
18	Tak Bai	Narathiwat	899	897	1,796	913	927	1,840	827	798	1,625	783	807	1,590	650	655	1,305
19	Ranong	Ranong	9,221	9,798	19,019	11,470	11,422	22,892	18,038	17,792	35,830	17,260	17,206	34,466	14,923	14,851	29,774
20	Phuket	Phuket	614	533	1,147	717	690	1,407	657	583	1,240	592	557	1,149	583	540	1,123
21	Krabi	Krabi	744	718	1,462	620	587	1,207	349	331	680	292	269	561	264	257	521
22	Kan Tang	Trang	924	926	1,850	904	911	1,815	1,009	991	2,000	892	917	1,809	811	811	1,622
23	Satun	Satun	959	964	1,923	1,073	1,042	2,115	933	915	1,848	980	971	1,951	2,439	2,440	4,879
Total			65,527	65,275	130,802	77,355	72,095	149,450	83,264	78,017	161,281	84,487	81,572	166,059	81,660	77,442	159,102

Table 6 (Continued)

Unit: Vessel trips

No.	Customs		2019			2020			2021			2022			2023		
			Arrival	Depart.	Total	Arrival	Depart.	Total	Arrival	Depart.	Total	Arrival	Depart.	Total	Arrival	Depart.	Total
1	Bangkok	Bangkok	7,668	3,951	11,619	6,883	3,579	10,462	17,773	18,139	35,912	14,978	14,903	29,881	11,974	8,929	20,903
2	Khlong Yai	Trat	1,622	1,665	3,287	1,046	1,066	2,112	790	789	1,579	718	700	1,418	153	303	456
3	Map Ta Phut	Rayong	8,464	8,624	17,088	8,275	8,470	16,745	9,643	9,763	19,406	8,878	9,030	17,908	2,622	7,377	9,999
4	Laem Chabang	Chon buri	21,286	23,060	44,346	19,112	20,731	39,843	21,003	21,490	42,493	21,266	21,594	42,860	12,170	17,644	29,814
5	Chachoengsao	Chachoengsao	451	433	884	515	484	999	-	-	-	-	-	-			
6	Samut Prakan	Samut Prakan	7,313	5,546	12,859	6,274	4,485	10,759	-	-	-	-	-	-			
7	Samut Sakhon	Samut Sakhon	1,716	1,717	3,433	1,727	1,719	3,446	-	-	-	-	-	-			
8	Mae Klong	Samut Songkhram	900	799	1,699	896	818	1,714	2,446	2,434	4,880	2,830	2,822	5,652	2,190	869	3,059
9	Chanthaburi	Chanthaburi	-	-	-	-	-	-	1	1	2	6	4	10	-	-	-
10	Prachuap Khiri Khan	Prachuap Khiri Khan	356	340	696	276	276	552	266	311	577	176	176	352	98	55	153
11	Chumphon	Chumphon	157	160	317	170	193	363	165	151	316	182	171	353	149	-	149
12	Ban Don	Surat Thani	3,122	3,087	6,209	3,110	3,218	6,328	3,102	3,053	6,155	3,141	3,111	6,252	1,874	859	2,733
13	Ko Samui	Surat Thani	69	70	139	31	30	61	22	20	42	22	25	47	13	-	13
14	Nakhon Si Thammarat	Nakhon Si Thammarat	79	78	157	66	64	130	70	70	140	68	67	135	2	41	43
15	Si Chon	Nakhon Si Thammarat	439	444	883	508	523	1,031	418	435	853	414	411	825	2	388	390
16	Songkhla	Songkhla	4,010	3,888	7,898	3,661	3,573	7,234	3,516	3,646	7,162	2,815	3,136	5,951	1,042	2,164	3,206
17	Pattani	Pattani	36	74	110	7	7	14	82	89	171	53	50	103	11	3	14
18	Tak Bai	Narathiwat	423	424	847	142	150	292	138	139	277	62	61	123	30	7	37
19	Ranong	Ranong	13,225	13,639	26,864	15,317	15,282	30,599	13,771	16,548	30,319	16,308	16,376	32,684	3,586	1,428	5,014
20	Phuket	Phuket	435	408	843	275	252	527	404	372	776	331	326	657	74	123	197
21	Krabi	Krabi	221	209	430	216	169	385	244	246	490	209	206	415	7	130	137
22	Kan Tang	Trang	751	774	1,525	891	922	1,813	755	751	1,506	895	877	1,772	193	446	639
23	Satun	Satun	2,325	2,203	4,528	1,908	1,771	3,679	350	371	721	2,097	2,247	4,344	17	15	32
Total			75,068	71,593	146,661	71,306	67,782	139,088	74,959	78,818	153,777	75,449	76,293	151,742	36,207	40,781	76,988

Table 7: The volume of arrival – departure goods of foreign and coastal trade vessels in the coastal port areas for 2014-2023.

Unit: Tons

Year	Foreign trade vessels			Coastal trade vessels			Total		
	Arrival	Departure	Total	Arrival	Departure	Total	Arrival	Departure	Total
2014	118,757,070.586	64,355,567.924	183,112,638.510	25,012,700.773	21,660,092.488	46,672,793.261	143,769,771.359	86,015,660.412	229,785,431.771
2015	140,166,133.237	68,261,083.844	208,427,217.081	28,159,038.258	23,713,443.897	51,872,482.155	168,325,171.495	91,974,527.741	260,299,699.236
2016	141,699,912.438	70,194,577.299	211,894,489.738	26,957,308.475	23,937,147.689	50,894,456.164	168,657,220.913	94,131,724.989	262,788,945.902
2017	143,674,564.094	72,194,564.847	215,869,128.941	30,818,316.391	30,032,086.698	60,850,403.089	174,492,880.485	102,226,651.545	276,719,532.030
2018	160,466,628.992	71,417,551.626	231,884,180.618	29,225,376.592	32,572,305.071	61,797,681.663	189,692,005.584	103,989,856.697	293,681,862.281
2019	155,557,858.354	82,461,421.311	238,019,279.665	29,737,588.873	32,034,728.411	61,772,317.284	185,295,447.227	114,496,149.722	299,791,596.949
2020	152,246,677.589	87,582,233.066	239,828,910.655	25,880,105.922	28,143,273.866	54,023,379.788	178,126,783.511	115,725,506.932	293,852,290.443
2021	188,228,386.828	108,333,650.149	296,562,036.977	32,557,918.388	32,889,161.993	65,447,080.381	220,786,305.216	141,222,812.142	362,009,117.358
2022	206,101,290.368	163,950,410.941	370,051,701.309	33,537,195.584	34,894,146.946	68,431,342.530	239,638,485.952	198,844,557.887	438,483,043.839
2023	181,438,482.763	186,924,473.046	368,362,955.808	34,241,366.680	39,352,111.140	73,593,477.820	215,679,849.443	226,276,584.186	441,956,433.628

The number of arrival – departure goods of foreign and coastal trade vessels in the coastal port areas for 2014-2023.

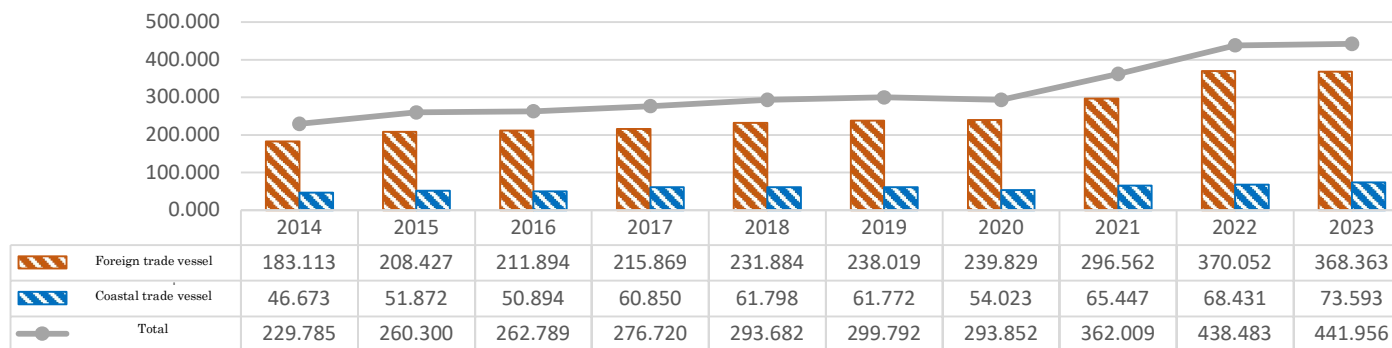


Table 8: The volume of goods transported in coastal port areas (Foreign trade and coastal trade vessels), classified by category of goods for 2014-2023.

Unit: tons

Category of goods	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1 Alive	1,722.892	356.657	339.187	1.365	13.810	-	684.768	497.900	1,180.118	6,625.490
2 Rice	245,827.449	275,496.995	287,961.647	274,715.393	328,695.942	396,215.608	470,268.084	4,983,453.706	7,081,122.560	5,775,112.034
3 Corn	179,752.000	200,463.000	172,935.277	195,749.000	220,800.000	199,868.000	198,855.000	480,497.310	75,496.000	416,781.000
4 Cassava	102,046.171	36,388.089	69,133.229	5,213.000	9,714.010	594.833	2,380.000	4,191,753.760	3,184,707.666	4,503,923.007
5 Hevea brasiliensis	314,522.329	221,261.584	323,636.564	301,615.238	195,562.915	210,327.815	229,131.364	424,889.650	451,398.640	525,800.000
6 Wood	3,453,968.537	2,752,102.661	1,071,573.009	1,517,977.480	1,359,379.763	1,282,426.238	1,612,767.657	5,055,202.315	8,001,762.681	7,626,328.986
7 Agricultural product	1,055,167.102	859,293.307	885,872.221	836,931.208	966,029.950	1,479,446.007	1,477,139.805	4,848,012.801	3,096,793.729	5,960,197.816
8 Animal food	111,803.018	179,108.881	162,106.339	172,346.364	348,658.627	678,867.060	441,566.363	303,581.796	163,334.937	4,207,934.900
9 Sugar	2,554,488.133	1,045,036.610	230,178.205	128,793.877	109,332.689	109,366.156	61,353.374	2,737,119.669	5,540,662.148	4,945,401.123
10 Consumer product	741,879.900	574,053.397	841,781.744	818,831.060	902,825.996	995,432.322	888,353.134	8,036,500.272	14,484,793.454	4,431,755.392
11 Fuel Ore	8,174,788.909	7,536,429.485	8,190,513.190	7,114,534.016	6,798,024.840	7,269,314.583	8,037,631.310	25,240,075.312	12,292,936.513	21,923,653.130
12 Petroleum product	96,805,000.969	109,161,185.998	106,167,239.894	115,185,255.805	123,448,547.660	118,201,200.347	114,795,462.794	120,849,452.447	130,728,782.689	168,795,778.180
13 Metal & ore	525,772.189	333,014.375	344,598.822	595,263.866	1,157,001.138	490,787.605	460,876.205	18,754,394.113	461,394.600	197,661.269
14 Metal product	6,392,742.416	5,407,052.783	6,745,669.728	5,427,108.952	5,478,362.831	4,746,079.227	3,592,117.461	186,236.934	15,240,119.827	23,115,327.421
15 Soil, stone, sand	1,007,952.817	1,171,383.570	753,997.843	1,204,181.684	1,150,400.787	1,290,068.293	703,093.419	967,547.326	1,898,089.570	244,959.810
16 Cement	4,359,104.840	4,690,458.376	4,573,466.724	1,614,103.380	2,281,562.732	2,401,766.724	2,680,269.489	10,447,238.230	8,616,892.908	5,674,594.499
17 Other ores	11,302,291.084	9,313,981.506	7,817,307.366	7,579,202.177	8,644,544.669	7,199,293.175	5,920,245.630	7,551,372.857	17,940,191.870	11,061,484.204
18 Construction material	495,443.934	684,533.395	646,640.086	687,424.099	772,759.287	633,098.829	566,755.367	36,303.083	293,921.707	441,965.272
19 Fertilizer	114,413.376	37,328.014	75,452.281	62,942.160	31,147.387	61,341.172	65,283.338	7,244,425.720	5,789,078.262	5,478,677.427
20 Chemical product	6,024,396.420	6,075,515.472	6,784,284.934	6,474,100.064	8,112,454.415	7,126,316.195	5,841,871.890	17,188,546.264	18,164,339.823	22,256,916.208
21 Tools & equipment	5,327,880.793	1,978,907.494	3,447,661.838	3,157,403.738	1,254,628.937	1,883,118.497	2,051,614.395	3,455,258.719	24,957,206.987	5,836,036.175
22 Miscellaneous	49,318,070.942	66,152,796.528	72,244,825.845	84,940,647.618	78,601,209.428	90,299,209.713	94,908,490.915	119,026,757.174	160,018,837.150	138,529,520.286
23 Unidentified goods	31,176,395.551	41,613,551.059	40,951,769.929	38,425,190.484	51,510,204.468	52,837,458.550	48,846,078.681	-	-	-
Total	229,785,431.771	260,299,699.236	262,788,945.902	276,719,532.030	293,681,862.281	299,791,596.949	293,852,290.443	362,009,117.358	438,483,043.839	441,956,433.629

Table 8.1: The volume of goods transported in coastal port areas, classified by category of goods and category of vessels for 2014-2023.

Unit: tons

Category of goods	2014			2015			2016			2017		
	Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total
1 Alive	1,655.600	67.292	1,722.892	-	356.657	356.657	-	339.187	339.187	-	1.365	1.365
2 Rice	161,572.689	84,254.760	245,827.449	272,753.198	2,743.797	275,496.995	286,124.676	1,836.971	287,961.647	265,241.912	9,473.481	274,715.393
3 Corn	179,752.000	-	179,752.000	200,463.000	-	200,463.000	172,925.000	10.277	172,935.277	195,704.000	45.000	195,749.000
4 Cassava	2,400.000	99,646.171	102,046.171	17,680.089	18,708.000	36,388.089	28,312.473	40,820.756	69,133.229	5,183.000	30.000	5,213.000
5 Hevea brasiliensis	-	314,522.329	314,522.329	-	221,261.584	221,261.584	64,314.602	259,321.962	323,636.564	86,432.143	215,183.095	301,615.238
6 Wood	59,389.728	3,394,578.809	3,453,968.537	183,888.526	2,568,214.135	2,752,102.661	77,216.290	994,356.719	1,071,573.009	46,881.428	1,471,096.052	1,517,977.480
7 Agricultural product	776,115.842	279,051.260	1,055,167.102	693,355.483	165,937.824	859,293.307	759,059.189	126,813.032	885,872.221	454,203.860	382,727.348	836,931.208
8 Animal food	99,220.000	12,583.018	111,803.018	142,438.000	36,670.881	179,108.881	137,537.460	24,568.879	162,106.339	144,090.610	28,255.754	172,346.364
9 Sugar	-	2,554,488.133	2,554,488.133	-	1,045,036.610	1,045,036.610	9,985.795	220,192.410	230,178.205	-	128,793.877	128,793.877
10 Consumer product	54,196.901	687,682.999	741,879.900	35,192.424	538,860.973	574,053.397	60,570.861	781,210.883	841,781.744	71,777.582	747,053.478	818,831.060
11 Fuel Ore	3,500.000	8,171,288.909	8,174,788.909	-	7,536,429.485	7,536,429.485	34,820.000	8,155,693.190	8,190,513.190	41,844.740	7,072,689.276	7,114,534.016
12 Petroleum product	34,646,777.552	62,158,223.417	96,805,000.969	39,424,158.110	69,737,027.888	109,161,185.998	37,307,859.160	68,859,380.734	106,167,239.894	40,558,813.546	74,626,442.259	115,185,255.805
13 Metal & ore	99,604.955	426,167.234	525,772.189	-	333,014.375	333,014.375	4,068.315	340,530.507	344,598.822	-	595,263.866	595,263.866
14 Metal product	794,609.387	5,598,133.029	6,392,742.416	457,186.168	4,949,866.615	5,407,052.783	765,044.954	5,980,624.774	6,745,669.728	659,839.839	4,767,269.113	5,427,108.952
15 Soil, stone, sand	21,946.438	986,006.379	1,007,952.817	40,468.718	1,130,914.852	1,171,383.570	39,495.000	714,502.843	753,997.843	85,124.470	1,119,057.214	1,204,181.684
16 Cement	201,437.045	4,157,667.795	4,359,104.840	221,986.468	4,468,471.908	4,690,458.376	257,927.263	4,315,539.461	4,573,466.724	303,323.304	1,310,780.076	1,614,103.380
17 Other ores	134,945.000	11,167,346.084	11,302,291.084	259,153.288	9,054,828.218	9,313,981.506	183,127.592	7,634,179.774	7,817,307.366	196,976.960	7,382,225.217	7,579,202.177
18 Construction material	47,636.841	447,807.093	495,443.934	96,429.589	588,103.806	684,533.395	108,742.700	537,897.386	646,640.086	136,442.820	550,981.279	687,424.099
19 Fertilizer	79,344.000	35,069.376	114,413.376	16,631.000	20,697.014	37,328.014	59,600.000	15,852.281	75,452.281	50,515.000	12,427.160	62,942.160
20 Chemical product	1,124,429.351	4,899,967.069	6,024,396.420	1,002,050.401	5,073,465.071	6,075,515.472	823,135.917	5,961,149.017	6,784,284.934	558,757.070	5,915,342.994	6,474,100.064
21 Tools & equipment	6,316.037	5,321,564.756	5,327,880.793	3,318.826	1,975,588.668	1,978,907.494	3,247.420	3,444,414.418	3,447,661.838	4,934.548	3,152,469.190	3,157,403.738
22 Miscellaneous	8,177,943.895	41,140,127.047	49,318,070.942	8,804,459.019	57,348,337.509	66,152,796.528	9,711,341.497	62,533,484.348	72,244,825.845	16,984,316.257	67,956,331.361	84,940,647.618
23 Unidentified goods	-	31,176,395.551	31,176,395.551	869.848	41,612,681.211	41,613,551.059	-	40,951,769.929	40,951,769.929	-	38,425,190.484	38,425,190.484
Total	46,672,793.261	183,112,638.510	229,785,431.771	51,872,482.155	208,427,217.081	260,299,699.236	50,894,456.164	211,894,489.738	262,788,945.902	60,850,403.089	215,869,128.941	276,719,532.030

Table 8.1 (Continued)

Unit: tons

Category of goods	2018			2019			2020		
	Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total
1 Alive	-	13.810	13.810	-	-	-	-	684.768	684.768
2 Rice	314,672.062	14,023.880	328,695.942	387,227.351	8,988.257	396,215.608	469,827.519	440.565	470,268.084
3 Corn	220,600.000	200.000	220,800.000	199,868.000	-	199,868.000	198,775.000	80.000	198,855.000
4 Cassava	9,654.010	60.000	9,714.010	594.833	-	594.833	2,200.000	180.000	2,380.000
5 Hevea brasiliensis	7,195.484	188,367.431	195,562.915	-	210,327.815	210,327.815	-	229,131.364	229,131.364
6 Wood	26,137.483	1,333,242.280	1,359,379.763	40,038.265	1,242,387.973	1,282,426.238	106,482.320	1,506,285.337	1,612,767.657
7 Agricultural product	510,515.397	455,514.553	966,029.950	1,012,333.145	467,112.862	1,479,446.007	1,157,446.210	319,693.595	1,477,139.805
8 Animal food	316,208.250	32,450.377	348,658.627	660,655.841	18,211.219	678,867.060	421,055.000	20,511.363	441,566.363
9 Sugar	-	109,332.689	109,332.689	5,661.927	103,704.229	109,366.156	-	61,353.374	61,353.374
10 Consumer product	112,604.292	790,221.704	902,825.996	145,132.609	850,299.713	995,432.322	101,684.840	786,668.294	888,353.134
11 Fuel Ore	-	6,798,024.840	6,798,024.840	95,999.000	7,173,315.583	7,269,314.583	72,353.510	7,965,277.800	8,037,631.310
12 Petroleum product	39,095,805.762	84,352,741.898	123,448,547.660	39,511,779.570	78,689,420.777	118,201,200.347	35,462,927.585	79,332,535.209	114,795,462.794
13 Metal & ore	6,150.000	1,150,851.138	1,157,001.138	11,715.733	479,071.872	490,787.605	14,197.380	446,678.825	460,876.205
14 Metal product	869,910.524	4,608,452.307	5,478,362.831	922,308.213	3,823,771.014	4,746,079.227	949,507.420	2,642,610.041	3,592,117.461
15 Soil, stone, sand	117,200.000	1,033,200.787	1,150,400.787	135,024.043	1,155,044.250	1,290,068.293	164,413.270	538,680.149	703,093.419
16 Cement	526,448.671	1,755,114.061	2,281,562.732	383,984.553	2,017,782.171	2,401,766.724	589,863.090	2,090,406.399	2,680,269.489
17 Other ores	112,189.000	8,532,355.669	8,644,544.669	226,667.455	6,972,625.720	7,199,293.175	186,029.760	5,734,215.870	5,920,245.630
18 Construction material	178,971.463	593,787.824	772,759.287	213,867.516	419,231.313	633,098.829	121,725.007	445,030.360	566,755.367
19 Fertilizer	28,000.000	3,147.387	31,147.387	55,500.000	5,841.172	61,341.172	62,500.000	2,783.338	65,283.338
20 Chemical product	941,428.472	7,171,025.943	8,112,454.415	876,505.599	6,249,810.596	7,126,316.195	756,311.552	5,085,560.338	5,841,871.890
21 Tools & equipment	51,698.227	1,202,930.710	1,254,628.937	15,803.560	1,867,314.937	1,883,118.497	5,752.274	2,045,862.121	2,051,614.395
22 Miscellaneous	18,352,292.566	60,248,916.862	78,601,209.428	16,871,650.071	73,427,559.642	90,299,209.713	13,180,328.051	81,728,162.864	94,908,490.915
23 Unidentified goods	-	51,510,204.468	51,510,204.468	-	52,837,458.550	52,837,458.550	-	48,846,078.681	48,846,078.681
Total	61,797,681.663	231,884,180.618	293,681,862.281	61,772,317.284	238,019,279.665	299,791,596.949	54,023,379.788	239,828,910.655	293,852,290.443

Table 8.1 (Continued)

Unit: tons

Category of goods	2021			2022			2023		
	Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total
1 Alive	-	497.900	497.900	-	1,180.118	1,180.118	-	6,625.490	6,625.490
2 Rice	38,011.000	4,945,442.706	4,983,453.706	26,283.000	7,054,839.560	7,081,122.560	54,650.000	5,720,462.034	5,775,112.034
3 Corn	131,688.860	348,808.450	480,497.310	1,288.000	74,208.000	75,496.000	14,450.000	402,331.000	416,781.000
4 Cassava	236,821.000	3,954,932.760	4,191,753.760	10,160.000	3,174,547.666	3,184,707.666	-	4,503,923.007	4,503,923.007
5 Hevea brasiliensis	-	424,889.650	424,889.650	-	451,398.640	451,398.640	-	525,800.000	525,800.000
6 Wood	90,720.000	4,964,482.315	5,055,202.315	6,000.000	7,995,762.681	8,001,762.681	8,700.000	7,617,628.986	7,626,328.986
7 Agricultural product	990,080.840	3,857,931.961	4,848,012.801	165,336.000	2,931,457.729	3,096,793.729	469,490.000	5,490,707.816	5,960,197.816
8 Animal food	163,300.000	140,281.796	303,581.796	134,635.457	28,699.480	163,334.937	4,720.550	4,203,214.350	4,207,934.900
9 Sugar	-	2,737,119.669	2,737,119.669	-	5,540,662.148	5,540,662.148	-	4,945,401.123	4,945,401.123
10 Consumer product	-	8,036,500.272	8,036,500.272	95,778.412	14,389,015.041	14,484,793.453	55,846.508	4,375,908.884	4,431,755.392
11 Fuel Ore	4,962,619.233	20,277,456.079	25,240,075.312	1,760,350.810	10,532,585.703	12,292,936.513	2,494,975.000	19,428,678.130	21,923,653.130
12 Petroleum product	36,772,460.488	84,076,991.959	120,849,452.447	45,117,879.726	85,610,902.963	130,728,782.689	47,372,751.919	121,423,026.261	168,795,778.180
13 Metal & ore	3,737,577.207	15,016,816.906	18,754,394.113	60,600.000	400,794.600	461,394.600	-	197,661.269	197,661.269
14 Metal product	-	186,236.934	186,236.934	910,736.747	14,329,383.080	15,240,119.827	60,388.000	23,054,939.421	23,115,327.421
15 Soil, stone, sand	41,336.350	926,210.976	967,547.326	21,635.000	1,876,454.570	1,898,089.570	19,245.000	225,714.810	244,959.810
16 Cement	1,710,707.180	8,736,531.050	10,447,238.230	556,384.530	8,060,508.378	8,616,892.908	409,416.780	5,265,177.719	5,674,594.499
17 Other ores	163,954.000	7,387,418.857	7,551,372.857	1,500.000	17,938,691.870	17,940,191.870	80,713.754	10,980,770.450	11,061,484.204
18 Construction material	9,592.228	26,710.855	36,303.083	29,669.586	264,252.121	293,921.707	6,909.000	435,056.272	441,965.272
19 Fertilizer	96,900.000	7,147,525.720	7,244,425.720	-	5,789,078.262	5,789,078.262	-	5,478,677.427	5,478,677.427
20 Chemical product	362,600.000	16,825,946.264	17,188,546.264	1,237,305.000	16,927,034.823	18,164,339.823	3,587,153.299	18,669,762.909	22,256,916.208
21 Tools & equipment	16,116.450	3,439,142.269	3,455,258.719	83,752.222	24,873,454.765	24,957,206.987	168,964.410	5,667,071.765	5,836,036.175
22 Miscellaneous	15,922,595.545	103,104,161.629	119,026,757.174	18,212,048.040	141,806,789.110	160,018,837.150	18,785,103.600	119,744,416.686	138,529,520.286
23 Unidentified goods	-	-	-	-	-	-	-	-	-
Total	65,447,080.381	296,562,036.977	362,009,117.358	68,431,342.530	370,051,701.308	438,483,043.838	73,593,477.820	368,362,955.809	441,956,433.629

Table 9: The volume of goods, classified by Customs House of Foreign and coastal trade vessels, arrival-departure for 2014-2023.

Unit: tons

Customs			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	Bangkok	Bangkok	-	23,043,154.696	19,638,793.938	19,353,065.670	18,482,998.159	17,607,167.545	16,169,833.219	58,945,007.637	51,397,181.018	55,606,627.577
2	Khlong Yai	Trat	294,468.420	487,945.147	601,039.000	440,100.848	401,176.276	338,170.699	177,397.721	207,656.702	179,150.316	70,157.297
3	Map Ta Phut	Rayong	57,640,868.198	56,578,948.393	56,246,961.382	57,236,951.163	70,647,572.706	62,383,132.460	66,867,446.208	83,821,482.466	83,130,667.563	110,835,114.212
4	Laem Chabang	Chon buri	125,047,104.869	135,129,055.838	140,031,636.658	147,961,777.922	150,792,663.333	167,123,003.494	164,965,481.855	189,040,726.381	263,684,862.702	236,271,875.757
5	Chachoengsao	Chachoengsao	542,788.213	392,547.061	416,091.791	338,264.191	404,989.225	850,796.484	930,214.512	-	-	-
6	Samut Prakan	Samut Prakan	10,649,712.093	11,127,830.949	11,070,657.417	17,308,272.333	17,196,654.758	16,484,580.642	13,568,220.448	-	-	-
7	Samut Sakhon	Samut Sakhon	2,877,092.173	2,815,936.152	2,833,156.572	2,699,858.785	2,617,813.274	2,876,517.323	2,781,582.507	-	-	-
8	Mae Klong	Samut Songkhram	980,512.561	951,990.378	973,135.230	1,049,110.959	959,802.857	1,401,178.580	1,394,656.804	4,585,474.610	7,258,739.324	10,871,320.690
9	Prachuap Khiri Khan	Prachuap Khiri Khan	2,703,288.598	2,166,326.598	2,709,279.997	2,320,877.179	2,605,283.521	2,577,102.606	1,619,794.832	2,496,485.790	2,041,198.731	2,257,905.719
10	Chumphon	Chumphon	187,943.900	257,250.100	229,804.000	184,388.000	327,609.300	899,783.095	298,805.100	142,850.000	318,300.000	296,690.000
11	Ban Don	Surat Thani	9,624,675.001	8,446,041.588	8,309,345.143	8,238,485.354	9,534,491.887	8,527,072.191	8,164,897.602	5,153,946.866	8,930,182.993	8,638,160.258
12	Ko Samui	Surat Thani	-	-	848.000	172.200	-	-	-	9,714.750	7,767.600	9,100.000
13	Nakhon Si Thammarat	Nakhon Si Thammarat	968,393.000	801,786.740	572,765.000	712,339.000	981,427.697	713,093.330	718,170.000	840,025.000	970,600.000	929,490.000
14	Si Chon	Nakhon Si Thammarat	1,876,262.102	1,602,490.035	1,360,435.982	1,205,837.976	1,444,760.524	1,168,014.163	1,071,278.139	675,660.000	701,787.720	715,485.000
15	Songkhla	Songkhla	9,600,445.966	9,950,798.750	12,039,494.905	11,797,019.924	11,058,973.969	11,016,106.138	9,303,882.717	8,038,427.754	8,369,354.737	8,403,345.022
16	Pattani	Pattani	-	640.000	7,525.000	21,759.000	10,864.268	4,748.019	3,174.964	47,638.442	30,579.060	7,878.011
17	Tak Bai	Narathiwat	417,012.131	307,633.883	114,337.725	540,271.000	346,510.000	259,000.000	165,492.170	433,814.968	113,580.000	271,482.000
18	Ranong	Ranong	321,001.778	523,172.293	823,022.162	1,092,680.215	994,014.638	964,705.529	1,089,070.391	874,245.073	4,531,440.410	492,483.883
19	Phuket	Phuket	428,017.154	323,711.847	405,214.148	698,568.956	897,384.031	871,705.862	889,210.868	2,518,872.504	2,044,276.293	1,940,149.347
20	Krabi	Krabi	3,682,092.252	3,076,799.024	1,935,797.558	1,528,729.643	2,231,004.452	1,784,934.804	1,838,680.157	2,304,559.683	2,483,306.186	2,358,129.773
21	Kan Tang	Trang	1,883,212.347	2,230,685.670	2,370,605.272	1,928,625.298	1,687,643.064	1,897,034.347	1,800,244.641	1,845,743.517	2,268,440.747	1,937,102.958
22	Satun	Satun	60,541.015	84,954.094	98,999.022	62,376.414	58,224.342	43,749.638	34,755.588	26,785.215	21,628.439	43,936.125
Total			229,785,431.771	260,299,699.236	262,788,945.902	276,719,532.030	293,681,862.281	299,791,596.949	293,852,290.443	362,009,117.358	438,483,043.839	441,956,433.628

∴ The volume of goods transported in coastal port areas, classified by customs and category of vessels for 2014-2023.

Unit: tons

No.	Customs		2014			2015			2016			2017		
			Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total
1	Bangkok	Bangkok	-	-	-	3,958,972.869	19,084,181.827	23,043,154.70	4,284,313.732	15,354,480.21	19,638,793.938	4,635,503.777	14,717,561.893	19,353,065.670
2	Khlong Yai	Trat	-	294,468.420	294,468.420	-	487,945.147	487,945.147	-	601,039.000	601,039.000	-	440,100.848	440,100.848
3	Map Ta Phut	Rayong	9,353,510.038	48,287,358.160	57,640,868.198	8,030,448.878	48,548,499.515	56,578,948.393	7,488,968.320	48,757,993.062	56,246,961.382	7,368,492.049	49,868,459.114	57,236,951.163
4	Laem Chabang	Chon buri	16,743,175.580	108,303,929.289	125,047,104.869	19,001,961.397	116,127,094.441	135,129,055.838	17,584,834.631	122,446,802.027	140,031,636.658	20,628,829.479	127,332,948.443	147,961,777.922
5	Chachoengsao	Chachoengsao	373,075.163	169,713.050	542,788.213	201,862.095	190,684.966	392,547.061	255,463.021	160,628.770	416,091.791	214,506.874	123,757.317	338,264.191
6	Samut Prakan	Samut Prakan	10,649,712.093	-	10,649,712.093	11,127,830.949	-	11,127,830.949	11,070,657.417	-	11,070,657.417	17,308,272.333	-	17,308,272.333
7	Samut Sakhon	Samut Sakhon	2,559,147.335	317,944.838	2,877,092.173	2,668,647.340	147,288.812	2,815,936.152	2,768,913.816	64,242.756	2,833,156.572	2,632,767.003	67,091.782	2,699,858.785
8	Mae Klong	Samut Songkhram	859,274.063	121,238.498	980,512.561	775,640.969	176,349.409	951,990.378	815,582.960	157,552.270	973,135.230	-	132,560.089	1,049,110.959
9	Prachuap Khiri Khan	Prachuap Khiri Khan	634,990.282	2,068,298.316	2,703,288.598	297,601.314	1,868,725.284	2,166,326.598	519,342.895	2,189,937.102	2,709,279.997	430,940.321	1,889,936.858	2,320,877.179
10	Chumphon	Chumphon	187,943.900	-	187,943.900	257,250.100	-	257,250.100	229,804.000	-	229,804.000	184,388.000	-	184,388.000
11	Ban Don	Surat Thani	3,030,831.985	6,593,843.016	9,624,675.001	3,186,733.095	5,259,308.493	8,446,041.588	3,681,521.500	4,627,823.643	8,309,345.143	3,844,013.953	4,394,471.401	8,238,485.354
12	Ko Samui	Surat Thani	-	-	-	-	-	-	848.000	-	848.000	172.200	-	172.200
13	Nakhon Si Thammarat	Nakhon Si Thammarat	46,469.000	921,924.000	968,393.000	53,425.000	748,361.740	801,786.740	13,300.000	559,465.000	572,765.000	-	712,339.000	712,339.000
14	Si Chon	Nakhon Si Thammarat	201,148.394	1,675,113.708	1,876,262.102	180,187.293	1,422,302.742	1,602,490.035	185,960.992	1,174,474.990	1,360,435.982	159,588.929	1,046,249.047	1,205,837.976
15	Songkhla	Songkhla	1,891,023.397	7,709,422.569	9,600,445.966	2,080,146.512	7,870,652.238	9,950,798.750	1,911,060.105	10,128,434.800	12,039,494.905	2,427,171.522	9,369,848.402	11,797,019.924
16	Pattani	Pattani	-	-	-	-	640.000	640.000	-	7,525.000	7,525.000	-	21,759.000	21,759.000
17	Tak Bai	Narathiwat	-	417,012.131	417,012.131	-	307,633.883	307,633.883	-	114,337.725	114,337.725	-	540,271.000	540,271.000
18	Ranong	Ranong	-	321,001.778	321,001.778	-	523,172.293	523,172.293	-	823,022.162	823,022.162	-	1,092,680.215	1,092,680.215
19	Phuket	Phuket	142,492.031	285,525.123	428,017.154	51,774.344	271,937.503	323,711.847	83,884.775	321,329.373	405,214.148	99,205.779	599,363.177	698,568.956
20	Krabi	Krabi	-	3,682,092.252	3,682,092.252	-	3,076,799.024	3,076,799.024	-	1,935,797.558	1,935,797.558	-	1,528,729.643	1,528,729.643
21	Kan Tang	Trang	-	1,883,212.347	1,883,212.347	-	2,230,685.670	2,230,685.670	-	2,370,605.272	2,370,605.272	-	1,928,625.298	1,928,625.298
22	Satun	Satun	-	60,541.015	60,541.015	-	84,954.094	84,954.094	-	98,999.022	98,999.022	-	62,376.414	62,376.414
Total			46,672,793.261	183,112,638.510	229,785,431.771	51,872,482.155	208,427,217.081	260,299,699.236	50,94,456.164	211,894,489.738	262,788,945.902	60,850,403.089	215,869,128.941	276,719,532.030

Table 9.1 (Continued)

Unit: tons

No.	Customs		2018			2019			2020		
			Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total
1	Bangkok	Bangkok	4,241,770.137	14,241,228.022	18,482,998.159	17,088,700.861	518,466.684	17,607,167.545	3,387,575.278	12,782,257.941	16,169,833.219
2	Khlong Yai	Trat	-	401,176.276	401,176.276	4,583.671	333,587.028	338,170.699	-	177,397.721	177,397.721
3	Map Ta Phut	Rayong	7,543,653.566	63,103,919.140	70,647,572.706	45,518,785.445	16,864,347.015	62,383,132.460	7,184,509.711	59,682,936.497	66,867,446.208
4	Laem Chabang	Chon buri	21,665,627.351	129,127,035.982	150,792,663.333	95,802,974.553	71,320,028.941	167,123,003.494	17,752,378.832	147,213,103.023	164,965,481.855
5	Chachoengsao	Chachoengsao	296,615.277	108,373.948	404,989.225	828,937.628	21,858.856	850,796.484	719,716.764	210,497.748	930,214.512
6	Samut Prakan	Samut Prakan	17,196,654.758	-	17,196,654.758	12,035,029.413	4,449,551.229	16,484,580.642	13,568,220.448	-	13,568,220.448
7	Samut Sakhon	Samut Sakhon	2,566,859.063	50,954.211	2,617,813.274	2,792,286.746	84,230.577	2,876,517.323	2,511,715.103	269,867.404	2,781,582.507
8	Mae Klong	Samut Songkhram	826,854.193	132,948.664	959,802.857	1,393,178.580	8,000.000	1,401,178.580	1,394,656.804	-	1,394,656.804
9	Prachuap Khiri Khan	Prachuap Khiri Khan	425,447.963	2,179,835.558	2,605,283.521	2,004,735.333	572,367.273	2,577,102.606	412,566.387	1,207,228.445	1,619,794.832
10	Chumphon	Chumphon	327,609.300	-	327,609.300	795,783.095	104,000.000	899,783.095	298,805.100	-	298,805.100
11	Ban Don	Surat Thani	4,214,180.121	5,320,311.766	9,534,491.887	3,063,103.451	5,463,968.740	8,527,072.191	4,509,485.020	3,655,412.582	8,164,897.602
12	Ko Samui	Surat Thani	-	-	-	-	-	-	-	-	-
13	Nakhon Si Thammarat	Nakhon Si Thammarat	8,650.000	972,777.697	981,427.697	16,023.330	697,070.000	713,093.330	5,650.000	712,520.000	718,170.000
14	Si Chon	Nakhon Si Thammarat	173,102.242	1,271,658.282	1,444,760.524	7,504.511	1,160,509.652	1,168,014.163	224,157.072	847,121.067	1,071,278.139
15	Songkhla	Songkhla	2,191,444.095	8,867,529.874	11,058,973.969	3,103,726.698	7,912,379.440	11,016,106.138	2,053,943.269	7,249,939.448	9,303,882.717
16	Pattani	Pattani	-	10,864.268	10,864.268	4,748.019	-	4,748.019	-	3,174.964	3,174.964
17	Tak Bai	Narathiwat	-	346,510.000	346,510.000	-	259,000.000	259,000.000	-	165,492.170	165,492.170
18	Ranong	Ranong	-	994,014.638	994,014.638	347,771.012	616,934.517	964,705.529	-	1,089,070.391	1,089,070.391
19	Phuket	Phuket	119,213.597	778,170.434	897,384.031	192,917.786	678,788.076	871,705.862	-	889,210.868	889,210.868
20	Krabi	Krabi	-	2,231,004.452	2,231,004.452	65,923.351	1,719,011.453	1,784,934.804	-	1,838,680.157	1,838,680.157
21	Kan Tang	Trang	-	1,687,643.064	1,687,643.064	220,311.824	1,676,722.523	1,897,034.347	-	1,800,244.641	1,800,244.641
22	Satun	Satun	-	58,224.342	58,224.342	8,421.920	35,327.718	43,749.638	-	34,755.588	34,755.588
Total			61,797,681.663	231,884,180.618	293,681,862.281	185,295,447.227	114,496,149.722	299,791,596.949	54,023,379.788	239,828,910.655	293,852,290.443

Table 9.1 (Continued)

Unit: tons

No.	Customs		2021			2022			2023		
			Coastal	Foreign	Total	Coastal	Foreign	Total	Coastal	Foreign	Total
1	Bangkok	Bangkok	27,969,721.987	30,975,285.650	58,945,007.637	24,274,510.701	27,122,670.317	51,397,181.018	26,881,119.910	28,725,507.667	55,606,627.577
2	Khlong Yai	Trat	-	207,656.702	207,656.702	-	179,150.316	179,150.316	681.756	69,475.541	70,157.297
3	Map Ta Phut	Rayong	10,598,840.338	73,222,642.128	83,821,482.466	11,817,741.268	71,312,926.295	83,130,667.563	12,103,935.826	98,731,178.386	110,835,114.212
4	Laem Chabang	Chon buri	19,648,247.695	169,392,478.686	189,040,726.381	20,883,958.728	242,800,903.974	263,684,862.702	20,667,173.291	215,604,702.466	236,271,875.757
5	Chachoengsao	Chachoengsao	-	-	-	-	-	-	-	-	-
6	Samut Prakan	Samut Prakan	-	-	-	-	-	-	-	-	-
7	Samut Sakhon	Samut Sakhon	-	-	-	-	-	-	-	-	-
8	Mae Klong	Samut Songkhram	3,783,746.966	801,727.644	4,585,474.610	5,000,882.627	2,257,856.697	7,258,739.324	6,289,742.458	4,581,578.232	10,871,320.690
9	Prachuap Khiri Khan	Prachuap Khiri Khan	252,780.244	2,243,705.546	2,496,485.790	88,941.208	1,952,257.523	2,041,198.731	27,927.000	2,229,978.719	2,257,905.719
10	Chumphon	Chumphon	142,850.000	-	142,850.000	318,300.000	-	318,300.000	296,690.000	-	296,690.000
11	Ban Don	Surat Thani	1,614,841.850	3,539,105.016	5,153,946.866	3,483,900.889	5,446,282.104	8,930,182.993	4,252,125.840	4,386,034.418	8,638,160.258
12	Ko Samui	Surat Thani	9,714.750	-	9,714.750	7,767.600	-	7,767.600	9,100.000	-	9,100.000
13	Nakhon Si Thammarat	Nakhon Si Thammarat	-	840,025.000	840,025.000	-	970,600.000	970,600.000	-	929,490.000	929,490.000
14	Si Chon	Nakhon Si Thammarat	1,200.000	674,460.000	675,660.000	169,109.720	532,678.000	701,787.720	182,500.000	532,985.000	715,485.000
15	Songkhla	Songkhla	1,342,688.303	6,695,739.451	8,038,427.754	2,205,401.819	6,163,952.918	8,369,354.737	2,832,525.940	5,570,819.082	8,403,345.022
16	Pattani	Pattani	45,279.280	2,359.162	47,638.442	20,894.558	9,684.502	30,579.060	7,878.011	-	7,878.011
17	Tak Bai	Narathiwat	10,564.968	423,250.000	433,814.968	64,080.000	49,500.000	113,580.000	33,382.000	238,100.000	271,482.000
18	Ranong	Ranong	-	874,245.073	874,245.073	75,414.590	4,456,025.820	4,531,440.410	48.590	492,435.293	492,483.883
19	Phuket	Phuket	2,779.000	2,516,093.504	2,518,872.504	5,779.000	2,038,497.293	2,044,276.293	780.140	1,939,369.207	1,940,149.347
20	Krabi	Krabi	8,529.000	2,296,030.683	2,304,559.683	5,529.000	2,477,777.186	2,483,306.186	380.140	2,357,749.633	2,358,129.773
21	Kan Tang	Trang	13,658.000	1,832,085.517	1,845,743.517	6,430.822	2,262,009.925	2,268,440.747	4,497.918	1,932,605.040	1,937,102.958
22	Satun	Satun	1,638.000	25,147.215	26,785.215	2,700.000	18,928.439	21,628.439	2,989.000	40,947.125	43,936.125
Total			65,447,080.381	296,562,036.977	362,009,117.358	68,431,342.530	370,051,701.309	438,483,043.839	73,593,477.820	368,362,955.808	441,956,433.628

Passenger Density

Summary

Number of passengers and boat trips *for 2014-2023*

Table 13: Summary table of the number of passengers and boat trips of Chao Phraya Express Boats, Saen Saep Canal Boats, and Ferries, and MINE Smart Boats, 2014-2023.

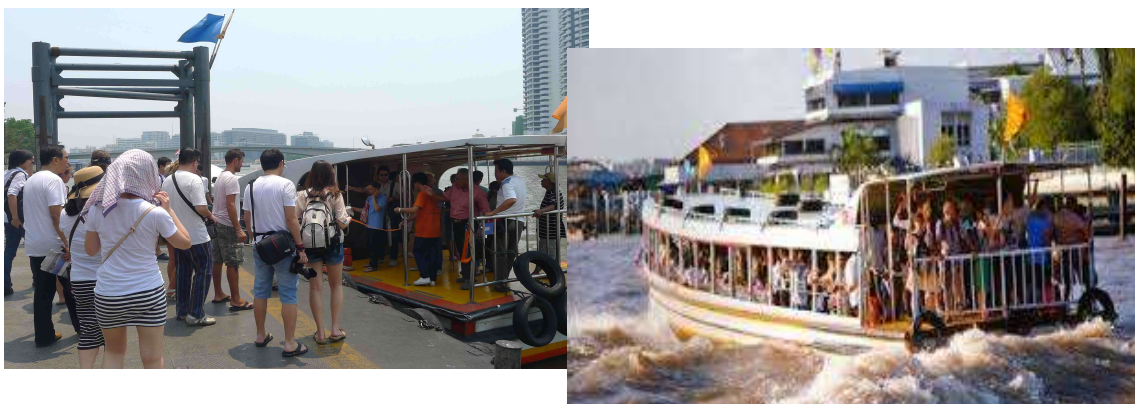
Year	Number of Passengers (people) and Boat Trips (Trips)							
	Chao Phraya Express Boat		Saen Saep Canal Boat		Ferry		MINE Smart Ferry	
								
	Passengers/ Annual	Trips/Annual	Passengers/ Annual	Trips/Annual	Passengers/ Annual	Trips/Annual	Passengers/ Annual	Trips/Annual
2014	12,571,675	60,689	17,036,096	127,881	41,512,016	943,292		
2015	13,205,340	61,001	18,485,944	124,728	41,226,460	865,485		
2016	13,632,247	66,242	18,628,905	126,444	37,881,949	843,297		
2017	15,447,828	72,592	18,781,518	125,419	37,674,965	871,583		
2018	13,672,756	69,475	19,252,256	129,325	36,350,354	846,110		
2019	13,328,992	78,601	22,573,874	122,651	33,926,929	789,612		
2020	4,827,967	43,095	9,436,563	78,049	16,850,141	683,087		
2021	2,062,577	22,002	4,643,569	41,222	12,904,710	516,251		
2022	7,835,240	51,064	6,494,090	56,069	17,563,076	595,786	491,921	16,590
2023	12,701,114	49,491	20,966,666	115,831	25,831,859	697,284	943,050	16,616

Table 14: Summary table of the number of passengers and boat trips of Long-propellor shaft boats, Phra Khanong Canal boats and Ban Pa Canal boats, 2008-2014, 2017.

Year	Number of Passengers (people) and Number of Boat Trips (Trips)					
	Long-propellor Shaft Boat		Phra Khanong Canal Boat		Ban Pa Canal Boat	
						
	Passengers/ Annual	Trips/Annual	Passengers/ Annual	Trips/Annual	Passengers/ Annual	Trips/Annual
2008	1,588,112	117,122	283,071	17,787	38,749	3,986
2009	1,186,589	88,748	243,222	15,264	25,683	3,846
2010	1,051,517	77,867	262,446	15,687	26,571	4,056
2011	886,055	64,593	183,048	10,887	26,745	4,056
2012	800,899	59,072	147,627	9,795	21,352	4,056
2013	703,207	52,244	136,604	9,258	21,057	3,899
2014	596,342	47,368	119,946	8,831	20,607	3,328
← 2015-2016 had no survey →						
2017	427,611	39,669	62,384	5,780	-	-

Remark: On 2017, Ban Pa Canal Boat had no survey and 2018-2021 had no survey for all 3 categories of boat

Chao Phraya Express Boats



Number of Passengers

Table 15: Average number of Chao Phraya Express Boat passengers per day, 2014-2023.

Year	Number of passengers (people)									Passengers per year
	Average per day (official days)			Average per day (Public holidays)			Average per day			
	Downbound	Upbound	Total	Downbound	Upbound	Total	Downbound	Upbound	Total	
2014	21,157	18,570	39,727	10,015	9,538	19,553	18,548	15,989	34,537	12,571,675
2015	21,783	19,463	41,246	12,245	11,613	23,858	19,058	17,220	36,278	13,205,340
2016	22,927	20,250	43,177	11,795	11,341	23,136	19,748	17,703	37,451	13,632,247
2017	24,979	22,798	47,777	14,580	14,509	29,089	22,008	20,434	42,442	15,447,828
2018	22,493	20,144	42,637	13,082	11,794	24,876	19,804	17,758	37,562	13,672,756
2019	21,845	18,844	40,689	13,696	12,745	26,441	19,517	17,101	36,618	13,328,992
2020	8,725	7,444	16,169	3,134	2,868	6,002	7,128	6,137	13,265	4,827,967
2021	3,955	3,374	7,329	813	744	1,557	3,052	2,628	5,680	2,063,000
2022	6,526	5,559	12,085	3,916	3,542	7,458	5,780	4,983	10,763	3,917,620
2023	10,909	8,925	19,834	6,313	5,165	11,478	9,596	7,851	17,447	6,350,557

Note: 2021 was an estimated data.

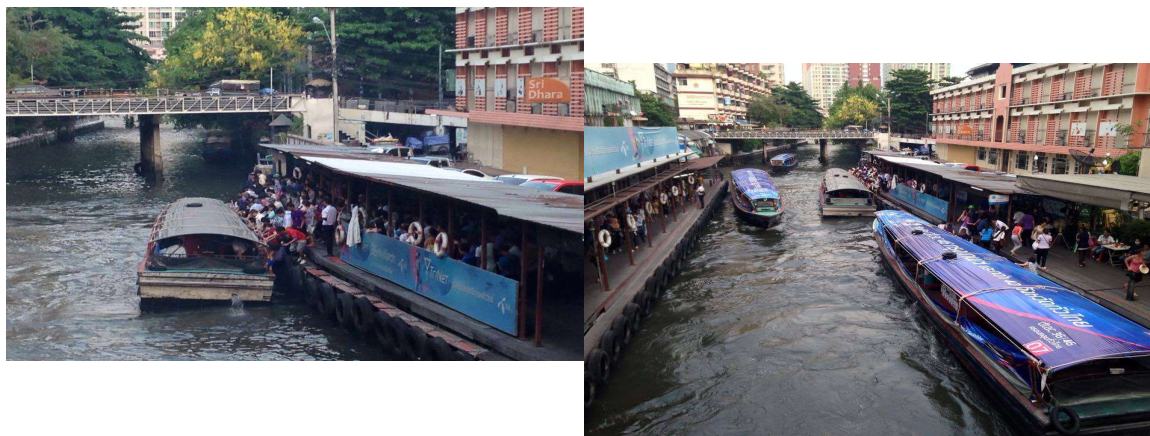
Number of Vessel Trips

Table 16: Average number of Chao Phraya Express Boat trips per day, 2014-2023.

Year	Number of boat trips (trips)									Boat trips per year
	Average per day (official days)			Average per day (Public holidays)			Average per day			
	Downbound	Upbound	Total	Downbound	Upbound	Total	Downbound	Upbound	Total	
2014	93	94	187	58	57	115	83	84	167	60,689
2015	93	93	186	61	61	122	84	84	168	61,001
2016	102	101	203	66	66	132	91	91	182	66,242
2017	112	107	219	75	74	149	102	98	200	72,592
2018	107	105	212	71	68	139	97	94	191	69,475
2019	117	118	235	83	84	167	108	108	216	78,601
2020	71	69	140	32	31	63	60	58	118	43,095
2021	39	38	77	10	10	20	31	29	60	22,002
2022	80	78	158	48	48	96	71	69	140	51,064
2023	78	45	153	47	46	93	74	61	135	49,491

Note: 2021 was an estimated data.

Saen Saep Canal Passenger Boats



Number of Passengers

Table 17: Average number of Saen Saep Canal Boat passengers per day, 2014-2023.

Year	Average number of passengers (people)									Passengers per year
	Average per day (official days)			Average per day (Public holidays)			Average per day			
	Downbound	Upbound	Total	Downbound	Upbound	Total	Downbound	Upbound	Total	
2014	28,357	26,947	55,304	13,604	11,945	25,549	24,142	22,661	46,803	17,036,096
2015	30,917	28,503	59,420	15,220	13,980	29,200	26,432	24,353	50,785	18,485,944
2016	32,062	27,956	60,018	15,700	13,389	29,089	27,387	23,794	51,181	18,628,905
2017	32,176	27,812	59,988	16,700	13,929	30,629	27,753	23,844	51,597	18,781,518
2018	32,752	28,791	61,543	17,047	14,222	31,269	28,263	24,629	52,892	19,252,256
2019	37,436	33,272	70,708	21,471	18,816	40,287	32,878	29,144	62,022	22,573,874
2020	15,858	14,156	30,014	8,296	7,406	15,702	13,697	12,228	25,925	9,436,563
2021	8,244	7,311	15,555	2,975	2,638	5,613	6,743	5,979	12,722	4,643,000
2022	11,756	10,852	22,608	3,110	2,758	5,868	9,252	8,540	17,792	6,494,090
2023	18,015	14,740	32,755	10,493	8,422	18,915	15,866	12,935	28,801	10,483,333

Note: 2021 was an estimated data.

Number of Vessel Trips

Table 18: Average number of Saen Saep Canal Boat trips per day, 2014-2023.

Year	Average number of boat trips (trips)									Boat trips per year
	Average per day (official days)			Average per day (Public holidays)			Average per day			
	Downbound	Upbound	Total	Downbound	Upbound	Total	Downbound	Upbound	Total	
2014	214	210	424	87	85	172	177	174	351	127,881
2015	207	204	411	86	84	170	173	170	343	124,728
2016	211	206	417	88	87	175	176	175	351	126,444
2017	206	203	409	92	91	183	174	171	345	125,419
2018	215	211	426	89	89	178	179	176	355	129,325
2019	201	200	401	89	88	177	169	168	337	122,651
2020	131	128	259	52	51	103	108	106	214	78,049
2021	72	69	141	52	21	43	58	55	113	41,222
2022	97	94	191	32	30	62	78	75	153	56,069
2023	181	195	376	87	86	173	154	164	318	115,831

Note: 2021 was an estimated data.

Ferries



Number of Passengers

Table 15: Average number of Ferries per day, 2014-2023.

Year	Number of passengers (people)		Average per day	Passengers per year
	Average per day (official days)	Average per day (Public holidays)		
2014	120,693	97,422	114,044	41,512,016
2015	118,384	100,538	113,259	41,226,460
2016	109,134	92,089	104,414	37,881,949
2017	108,057	92,116	103,502	37,674,965
2018	104,948	87,152	99,863	36,350,354
2019	97,283	83,011	93,206	33,926,929
2020	51,847	32,404	46,292	16,850,141
2021	44,174	13,649	35,453	12,904,710
2022	50,330	43,050	48,251	17,563,076
2023	73,270	65,212	70,964	25,831,859

Note: 2021 was an estimated data

Number of Vessel Trips

Table 16: Average number of Ferries trips per day, 2014-2023.

Year	Number of boat trips (trips)		Average per day	Boat trips per year
	Average per day (official days)	Average per day (Public holidays)		
2014	2,701	2,317	2,591	943,292
2015	2,478	2,127	2,378	865,485
2016	2,423	2,093	2,335	843,297
2017	2,517	2,088	2,394	871,583
2018	2,447	2,017	2,325	846,110
2019	2,298	1,846	2,169	789,612
2020	1,991	1,593	1,877	683,087
2021	1,588	994	1,418	516,251
2022	1,731	1,402	1,637	595,786
2023	2,020	1,651	1,914	697,284

Note: 2021 was an estimated data.

MINE Smart Ferries



Number of Passengers

Table 17: Average number of MINE Smart Ferries per day, 2022-2023.

Year	Number of passengers (people)		Average per day	Passengers per year
	Average per day (official days)	Average per day (Public holidays)		
2022	1,446	1,115	1,352	491,921
2023	2,633	2,486	2,591	943,050

Note: MINE Smart Ferries started the service in December 2020 and were surveyed in 2022

Number of Vessel Trips

Table 18: Average number of MINE Smart Ferries trips per day, 2022-2023.

Year	Number of boat trips (trips)		Average per day	Boat trips per year
	Average per day (official days)	Average per day (Public holidays)		
2022	48	39	46	16,590
2023	46	44	46	16,616

Note: MINE Smart Ferries started the service in December 2020 and were surveyed in 2022.

Long-propellor Shaft Boats

Number of Passengers

Table 21: Average number of Long-propellor Shaft Boats passengers per day, 2006-2017.

Year	Number of passengers (people)									Passengers per year
	Average per day (official days)			Average per day (Public holidays)			Average per day			
	Arrival	Departure	Total	Arrival	Departure	Total	Arrival	Departure	Total	
2006	4,660	3,350	8,010	1,855	1,649	3,504	3,858	2,864	6,722	2,446,810
2007	3,511	2,447	5,958	1,326	1,109	2,435	2,886	2,447	4,951	1,802,366
2008	3,107	2,152	5,259	1,104	1,018	2,122	2,535	1,828	4,363	1,588,112
2009	2,360	1,598	3,958	721	793	1,514	1,892	1,368	3,260	1,186,589
2010	2,157	1,308	3,465	709	738	1,447	1,744	1,145	2,889	1,051,517
2011	1,852	1,085	2,937	635	542	1,177	1,504	930	2,434	886,055
2012	1,680	939	2,619	635	518	1,153	1,382	818	2,200	800,899
2013	1,508	869	2,377	457	361	818	1,208	724	1,932	703,207
2014	1,262	735	1,997	436	306	742	1,026	613	1,639	596,342
2017	956	492	1,448	270	220	490	760	414	1,174	427,611

Note: 2015-2016 had no survey.

Table 22: Average number of Long-propellor Shaft Boats passengers per day, classified by vessel routes, 2006-2017.

Unit: people

No.	Name of piers (Origin-Destination)	Average number of passengers per day									
		2006	2007	2008	2009	2010	2011	2012	2013	2014	2017
1	Pak Kret Pier -Tha It Pier	1,143	805	773	458	325	234	229	138	129	104
2	Pak Kret Pier-Pak Khlong Bang Bua Thong Pier	1,011	812	798	732	743	693	696	667	579	484
3	Pak Kret Pier- Pratunam Bang Bua Thong Pier	301	144	98	48	29	20	21	No service		-
4	Pak Kret Pier-Pratunam Phra Udom Pier	370	170	72	38	33	23	29	19	1	-
5	Nonthaburi Pier-Bang Yai Pier (two sections)	281	128	71	←			Close	→		
6	Nonthaburi Pier-Bang Yai Pier	540	434	329	262	259	230	196	159	142	104
7	Khun Koi Pier- Pratunam Chim Pli Pier	366	306	292	231	218	226	170	241	220	179
8	Chang Pier -Bang Yai Pier	858	764	713	595	535	474	397	370	305	187
9	Chang Pier -Bang Chueak Nang Pier	314	266	243	216	194	161	141	165	124	60
10	Tien Pier -Bang Noi Pier	159	73	64	45	44	41	31	37	34	-
11	Chang Pier -Bang Noi Pier	-	-	-	-	-	-	-	-	-	60
12	Rajinee Pier -Bang Waek Pier	95	10	3	2	←			Close	→	
13	Buddha Bridge Pier -Bang Waek Pier	206	147	89	51	53	12	Temporary Close	4	No service	-
14	Khlong Toei Pier -Bang Kobua Pier	524	405	385	290	177	102	75	No service		-
15	Khlong Toei Pier -Bang Kachao Pier	47	46	45	25	21	25	21	8	10	-
16	Bang Khae Pier -Bang Chueak Nang Pier	267	239	189	114	106	67	60	26	25	-
17	Wibun Si Pier -Sahakon Pier	155	129	137	98	91	85	77	73	54	33
18	Wibun Si Pier -Wat Sakha Pier	85	73	62	55	61	41	57	25	16	4
Total		6,722	4,951	4,363	3,260	2,889	2,434	2,200	1,932	1,639	1,174

Note: In 2014, Pak Kret Pier-Pratunam Phra Udom Pier had surveyed only school semester.

Number of Vessel Trips

Table 23: number of Long-propellor Shaft Boats trips, 2006-2017.

Unit: trips

Year	Average number of passenger boat trips per day (trips)									Boat trips/year
	Average per day (official days)			Average per day (Public holidays)			Average per day			
	Arrival	Arrival	Arrival	Arrival	Arrival	Total	Arrival	Departure	Total	
2006	301	235	536	175	144	319	265	209	474	172,446
2007	237	182	419	141	110	251	209	182	391	134,984
2008	206	160	366	113	98	211	179	143	322	117,122
2009	161	121	282	74	73	147	136	107	243	88,748
2010	142	102	244	70	67	137	122	92	214	77,867
2011	120	84	204	60	50	110	103	75	178	64,593
2012	109	73	182	64	51	115	96	66	162	59,072
2013	102	68	170	41	36	77	85	59	144	52,244
2014	91	61	152	44	32	76	78	52	130	47,368
2017	78	50	128	33	30	63	65	44	109	39,669

Note: 2015-2016 had no survey.

Table 24: Average number of Long-propellor Shaft Boats trips per day, classified by vessel routes, 2006-2017.

Unit: trips

No.	Name of piers (Origin-Destination)	Average number of passenger boat trips per day									
		2006	2007	2008	2009	2010	2011	2012	2013	2014	2017
1	Pak Kret Pier -Tha It Pier	105	76	76	47	36	25	26	15	14	11
2	Pak Kret Pier-Pak Khlong Bang Bua Thong Pier	63	58	59	57	59	54	53	57	55	55
3	Pak Kret Pier- Pratunam Bang Bua Thong Pier	23	14	7	3	2	1	2	No service		-
4	Pak Kret Pier-Pratunam Phra Udom Pier	28	19	7	2	2	2	2	2	*	-
5	Nonthaburi Pier-Bang Yai Pier (two sections)	22	9	5	← Close →						-
6	Nonthaburi Pier-Bang Yai Pier	37	32	23	17	16	15	11	10	9	8
7	Khun Koi Pier- Pratunam Chim Pli Pier	18	16	15	12	12	12	8	11	11	9
8	Chang Pier -Bang Yai Pier	41	36	33	28	24	21	18	17	14	12
9	Chang Pier -Bang Chueak Nang Pier	15	11	11	11	10	9	9	9	8	5
10	Tien Pier -Bang Noi Pier	12	4	4	3	4	3	3	3	3	-
11	Chang Pier -Bang Noi Pier	-	-	-	-	-	-	-	-	-	2
12	Rajinee Pier -Bang Waek Pier	4	1	1	1	← Close →					
13	Buddha Bridge Pier -Bang Waek Pier	12	10	6	7	6	4	No service	1	No service	-
14	Khlong Toei Pier -Bang Kobua Pier	21	19	18	13	8	5	3	No service		-
15	Khlong Toei Pier -Bang Kachao Pier	4	5	4	3	3	3	2	2	2	-
16	Bang Khae Pier -Bang Chueak Nang Pier	51	43	36	23	18	12	11	6	6	-
17	Wibun Si Pier -Sahakon Pier	12	12	12	10	8	8	8	8	6	6
18	Wibun Si Pier -Wat Sakha Pier	6	6	5	6	6	4	6	3	2	1
Total		474	371	322	243	214	178	162	144	130	109

Note: In 2014, Pak Kret Pier-Pratunam Phra Udom Pier had surveyed only school semester, 2015-2016 had no survey.

Phra Khanong Canal Boats

Number of Passengers and Vessel Trips

Table 25: Number of passengers and boat trips of Phra Khanong Canal Boats, 2006-2017.

Year	Number of passengers (people)			Passengers per year (people)	Number of passenger boat trips(trips)			Boat trips/year (trips)
	Average per day (official days)	Average per day (Public holidays)	Average per day		Average per day (official days)	Average per day (Public holidays)	Average per day	
2006	868	632	800	291,436	50	42	48	17,408
2007	997	619	889	323,650	51	44	49	17,714
2008	883	517	778	283,071	51	44	49	17,787
2009	735	500	669	243,222	46	34	42	15,264
2010	787	556	721	262,446	46	34	43	15,687
2011	589	286	502	183,048	34	22	30	10,887
2012	444	310	406	147,627	30	20	27	9,795
2013	437	376	376	136,604	29	18	26	9,258
2014	383	196	330	119,946	28	16	24	8,831
2017	211	71	171	62,384	17	12	16	5,780

Note: 2015-2016 had no survey

Table 26: Average number of Khlong Phra Khanong Boat passengers per day, 2006-2017 (Upbound-Downbound).

Unit: people

No.	Name of piers	Average number of passengers per day									
		2006	2007	2008	2009	2010	2011	2012	2013	2014	2017
1	Talat lam Sornbat	161	195	165	130	143	110	82	71	60	37
2	Al Ehtichom Masjid	105	115	100	85	85	52	36	38	26	11
3	Khlong Chuan Community	70	89	72	70	71	41	38	36	34	20
4	Wat Pak Bo	141	167	123	108	117	108	90	68	65	43
5	Al Groubroh Masjid	82	95	82	84	98	57	60	45	42	17
6	Wat Ton Sai	106	116	103	80	100	63	45	47	39	22
7	Wat Thong Nai	80	89	71	59	68	45	25	26	23	9
8	Wat Yang	45	50	37	31	33	27	20	16	21	5
9	Khlong Chetchanat Community	48	44	46	40	39	31	27	24	21	21
10	Condominium	95	83	87	65	70	58	52	39	34	18
11	Suan Luang	49	54	46	49	52	40	26	34	32	15
12	Wat Mahabut	123	133	104	97	100	53	47	49	33	7
13	Big C										21
14	Phra Khanong	495	548	520	440	466	319	264	259	230	96
Total		1,600	1,778	1,556	1,338	1,442	1,004	812	752	660	342
Number of passengers		800	889	778	669	721	502	406	376	330	171

Note: 2015-2016 had no survey.

Ban Pa Canal Boats

Number of Passengers

Table 27: Number of passengers of Ban Pa Canal Boats, 2005-2014.

Year	Number of passengers (people)									Passengers per year (people)
	Average per day (official days)			Average per day (Public holidays)			Average per day			
	Arrival	Departure	Total	Arrival	Departure	Total	Arrival	Departure	Total	
2005	172	160	332	134	107	241	161	145	306	111,427
2006	121	98	219	99	70	169	115	90	205	74,586
2007	70	41	111	51	33	84	65	39	104	37,646
2008	73	39	112	54	39	93	67	39	106	38,749
2009	48	25	73	39	26	65	45	25	70	25,683
2010	49	25	74	40	31	71	46	27	73	26,571
2011	47	23	70	51	32	83	48	25	73	26,745
2012	41	17	58	33	28	61	39	20	59	21,352
2013	40	20	60	30	21	51	37	20	57	21,057
2014	41	21	62	26	18	44	37	20	57	20,607

Note: The survey had been made until 2014.

Number of Vessel Trips

Table 28: Number of passengers of Ban Pa Canal Boats, 2005-2017.

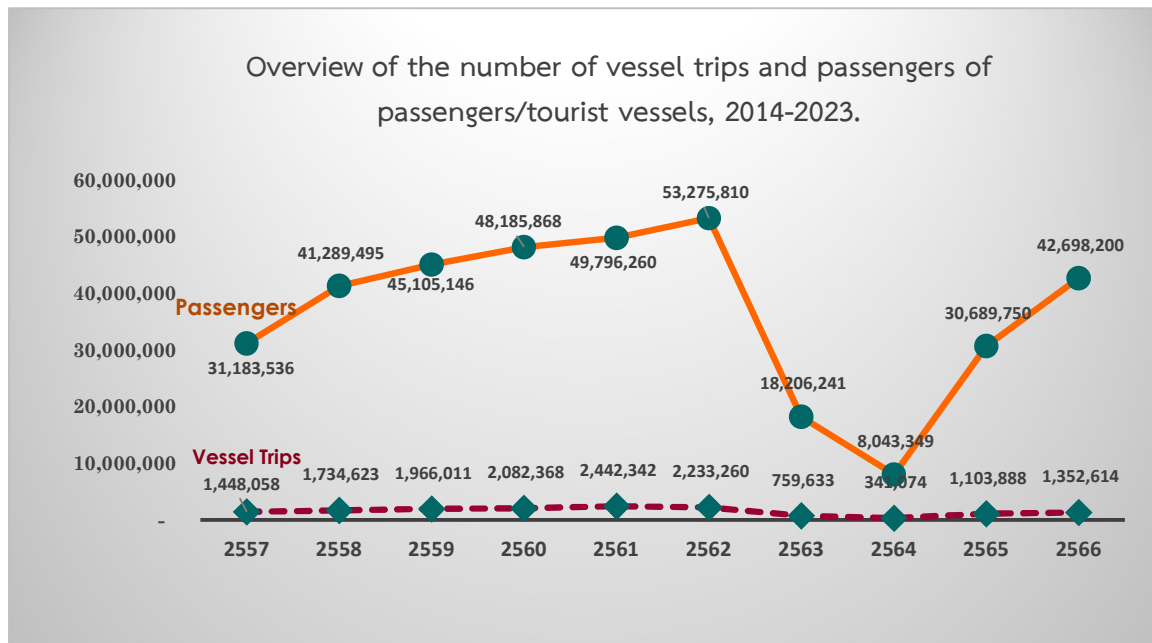
Year	Number of passenger boat trips(trips)									Boat trips/year (trips)
	Average per day (official days)			Average per day (Public holidays)			Average per day			
	Arrival	Departure	Total	Arrival	Departure	Total	Arrival	Departure	Total	
2005	12	12	24	11	11	22	12	12	24	8,346
2006	11	11	22	9	9	18	11	11	22	7,798
2007	6	6	12	5	5	10	6	6	12	4,022
2008	6	6	12	5	5	10	6	6	12	3,986
2009	6	6	12	4	4	8	5	5	10	3,846
2010	6	6	12	5	5	10	6	6	12	4,056
2011	6	6	12	5	5	10	6	6	12	4,056
2012	6	6	12	5	5	10	6	6	12	4,056
2013	6	6	12	5	4	9	5	6	11	3,899
2014	5	5	10	4	4	8	5	5	10	3,328

Note: The survey had been made until 2014.

Tourist Passenger Boats

Table 29: Comparison of the number of vessel routes, vessel trips and passengers, 2014-2023.

Year	Number of boat trips (trips)			Number of passengers (people)		
	River	Sea	Total	River	Sea	Total
2014	945,981	502,077	1,448,058	10,871,782	20,311,754	31,183,536
2015	1,067,646	666,977	1,734,623	12,396,078	28,893,417	41,289,495
2016	1,254,188	711,823	1,966,011	15,426,148	29,678,998	45,105,146
2017	1,145,699	936,669	2,082,368	14,934,753	33,251,115	48,185,868
2018	1,235,194	1,207,148	2,442,342	16,842,120	32,954,140	49,796,260
2019	1,095,256	1,138,004	2,233,260	13,987,405	39,288,405	53,275,810
2020	451,643	307,990	759,633	6,242,417	11,963,824	18,206,241
2021	210,070	131,004	341,074	2,552,723	5,490,626	8,043,349
2022	335,212	768,676	1,103,888	4,288,543	26,401,198	30,689,741
2023	478,138	874,476	1,352,614	7,058,067	35,640,133	42,698,200
Change Rate (%) 2022-2023	42.64%	13.76%	22.53%	64.58%	34.99%	39.13%



Number of Vessel Trips

Table 32: Number of vessel trips in the river areas, classified by province for 2014-2023.

Province	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Northern Region	80,186	101,420	107,032	92,511	102,857	88,365	21,231	4,644	44,743	53,506
Chiang Rai	63,357	66,394	91,902	77,935	82,307	68,126	11,459	972	26,278	36,345
Chiang Mai	13,032	28,642	12,364	12,139	14,809	14,840	7,503	2,016	7,264	5,371
Phayao									4,562	2,521
Phrae									3,137	
Mae Hong Son	3,677	6,264	2,646	2,317	2,057	1,865	500	500		
Lampang					1,418	1,542	858	495	1,994	1,717
Lamphun					1,426	1,147	260	260		
Uttaradit	120	120	120	120	840	845	651	401	1,508	7,552
Central Region	620,412	647,077	728,573	737,178	842,198	721,443	201,636	168,674	181,997	190,431
Bangkok Metropolis	186,781	242,430	269,130	258,674	258,600	217,300		593	4,725	9,356
Chainat	35,712	35,712	34,800	40,080	73,080	49,680	9,936	4,380	3,531	4,368
Nakhon Pathom	4,536	4,112	4,176	3,696	3,384	3,204	425		2,496	2,122
Nakhon Sawan	115,136	84,606	90,147	99,390	158,878	111,956	48,480	14,036	21,546	13,807
Nonthaburi	33,880	33,880	55,760	71,560	163,680	140,880	26,868	32,480		
Pathum Thani	15,600	15,600	15,600	15,600						
Phra Nakhon Si	38,192	38,192	38,192	38,192	18,704	19,208	17,845	12,064	49,876	66,494
Phitsanulok									2,142	220
Samut Songkhram	2,801	2,970	2,970	3,024	27,040	29,274	12,675	55,990	63,394	46,507
Samut Sakhon	74,880	74,880	74,880	74,880	42,288	37,807	41,347	42,935	34,287	47,231
Suphan Buri	2,064	1,440	2,064	2,424	2,898	2,160	288	88		
Ang Thong	20,368	20,368	20,368	20,368						
Uthai Thani	90,462	92,887	120,486	109,290	93,646	109,974	43,772	6,108		326
Western Region	193,401	244,163	283,594	223,544	239,753	234,734	193,900	20,640	72,695	166,382
Kanchanaburi	17,825	70,164	78,064	70,232	97,506	98,766	189,640	20,012	42,203	12,351
Tak	3,472	4,175	2,910	3,128	2,615	2,324	1,877	628		1,387
Ratchaburi	172,104	169,824	202,620	150,184	139,632	133,644	2,383		30,492	
Eastern Region	5,306	27,254	19,132	20,480	11,916	13,906	8,394	7,461	11,251	4,844
Chachoengsao	5,306	27,254	19,132	20,480	11,916	13,906	8,394	7,461	11,251	4,844
North Eastern Region	46,676	47,732	115,857	71,985	38,470	36,808	26,482	8,651	24,526	62,975
Kalasin	5,620	5,620	35,185	8,077	5,638	6,120	6,413	5,696	3,224	3,816
Khon Kaen	3,848	3,848	43,464	15,136	5,332	6,357	4,929	887	1,413	1,925
Nakhon Phanom	12,840	12,840	12,840	12,840	1,698	3,103	534		2,991	7,808
Bueng Kan				2,160	2,160	2,070	540		4,984	22,978
Loei	4,200	4,200	4,200	4,272	4,224	4,224	1,056		857	3,319
Mukdahan	1,348	1,348	1,348	1,348	1,650	2,044	434			
Nong Khai	3,624	4,680	3,624	5,040	5,040	5,040	1,260		989	9,529
Amnat Charoen	840	840	840	1,808	1,674	630	971	14		
Udon Thani									3,754	9,020
Ubon Ratchathani	14,356	14,356	14,356	21,304	11,054	7,220	10,345	2,054	6,314	4,580
Total	945,981	1,067,646	1,254,188	1,145,698	1,235,194	1,095,256	451,643	210,070	335,212	478,138

Table 33: Number of vessel trips in the sea areas, classified by province for 2014-2023.

Province	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Southern Region	434,285	598,859	647,675	818,064	941,034	881,857	188,381	120,522	607,832	714,082
Krabi	50,560	84,420	83,135	106,568	292,050	300,966	18,278	11,760	169,911	204,179
Chumphon	1,895	1,808	1,876	2,119	3,240	2,237	1,982	1,777	3,169	2,898
Trang	3,888	6,965	7,051	7,307	5,672	5,314	19,936	12,810	10,082	2,496
Nakhon Si Thammarat	102,126	110,464	110,464	110,464	38,276	57,600	28,800		52,724	26,820
Narathiwat	67,778	67,052	68,190	69,795	59,081	59,517	13,258		7,172	52,191
Phang Nga	38,428	38,428	38,428	48,020	88,563	85,111	31,676	34,633	5,743	6,356
Phatthalung	6,320	6,320	6,320	6,320	5,282	7,220	355	190		
Phuket	77,694	199,158	244,020	362,763	254,556	164,599		8,666	121,915	113,336
Ranong	37,304	37,304	37,304	47,354	96,090	29,208	5,560	11,578	21,575	45,985
Songkhla	29,420	29,420	29,420	29,420	28,176	85,228	58,770	39,108	86,046	100,562
Satun	3,448	3,448	6,883	13,350	14,476	20,539	304		23,157	24,810
Surat Thani	15,424	14,072	14,584	14,584	55,572	64,318	9,462		106,338	134,449
Western Region	14,888	14,888	3,880	58,563	39,146	56,549	41,138	4,676	21,920	16,239
Prachuap Khiri Khan	14,568	14,568	3,560	58,243	37,718	54,985	40,240	3,974	16,138	10,401
Phetchaburi	320	320	320	320	1,428	1,564	898	702	5,782	5,838
Eastern Region	52,904	53,230	60,268	60,042	226,968	199,598	78,471	5,806	138,924	144,155
Chanthaburi	1,440	7,536	14,704	14,478	16,008	20,586	10,128	2,902	11,869	12,250
Chon Buri	27,912	22,012	22,012	22,012	122,720	94,633	2,160	1,158	6,611	9,039
Chon Buri (Pattaya)									14,399	16,143
Trat	20,880	20,880	20,880	20,880	31,080	29,970	20,582	1,746	38,507	33,960
Rayong	2,672	2,802	2,672	2,672	57,160	54,409	45,601		67,538	72,763
Total	502,077	666,977	711,823	936,669	1,207,148	1,138,004	307,990	131,004	768,676	874,476

Number of Passengers

Table 34: Number of vessel trips in the river areas, classified by province for 2014-2023.

Province	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Northern Region	832,679	1,170,086	1,352,595	1,296,345	1,379,768	1,047,235	215,068	48,840	333,828	425,722
Chiang Rai	691,941	908,234	1,228,108	1,174,168	1,226,469	898,545	141,847	10,618	171,454	292,362
Chiang Mai	102,814	203,232	94,811	95,133	104,451	105,624	54,579	13,870	41,626	29,172
Phayao									50,182	21,532
Phrae									21,932	
Mae Hong Son	29,416	50,112	21,168	18,536	10,976	6,418	3,260	3,260		
Lampang					11,586	15,376	4,236	15,255	42,128	38,986
Lamphun					9,455	4,813	1,008	1,008		
Uttaradit	8,508	8,508	8,508	8,508	16,831	16,459	10,138	4,829	6,506	43,670
Central Region	8,172,525	8,670,273	11,017,454	11,241,336	13,397,376	10,851,834	2,867,923	2,319,922	3,250,498	5,082,887
Bangkok Metropolis	3,605,697	3,980,750	5,080,090	4,719,100	6,354,240	4,422,520		81,438	798,392	1,927,692
Chainat	446,040	581,040	1,006,200	1,183,200	1,343,106	1,053,000	210,600	12,168	7,208	9,475
Nakhon Pathom	106,752	97,080	106,140	117,264	135,120	127,872	15,830		64,706	60,709
Nakhon Sawan	523,615	574,936	590,004	605,590	1,057,256	836,268	172,868	51,284	56,816	30,303
Nonthaburi	252,000	228,000	628,800	888,480	1,414,800	1,379,100	232,528	293,290		
Pathum Thani	228,000	252,000	228,000	228,000						
Phra Nakhon Si										
Ayutthaya	302,048	302,048	302,048	302,048	167,440	162,420	153,100	69,525	284,391	428,569
Phitsanulok									49,694	2,052
Samut Songkhram	53,568	57,431	57,431	58,712	270,400	285,233	139,027	570,752	383,565	292,728
Samut Sakhon	2,281,320	2,279,520	2,279,520	2,279,520	1,916,920	1,818,387	1,706,138	1,203,545	1,605,726	2,324,104
Suphan Buri	40,800	28,800	40,800	46,200	50,850	32,400	4,320	1,256		
Ang Thong	93,072	93,072	93,072	93,072						
Uthai Thani	239,613	195,596	605,349	720,150	687,244	734,634	233,512	36,664		7,255
Western Region	1,381,384	1,629,959	1,778,359	1,443,851	1,505,686	1,452,679	2,838,867	73,616	351,362	729,725
Kanchanaburi	67,662	375,112	415,616	355,664	508,842	499,764	2,791,204	66,600	225,670	57,354
Tak	98,698	58,063	51,843	51,243	46,252	40,531	31,605	7,016		29,495
Ratchaburi	1,215,024	1,196,784	1,310,900	1,036,944	950,592	912,384	16,058		125,692	642,876
Eastern Region	77,794	443,000	229,176	232,509	115,251	144,850	83,979	54,433	96,311	44,036
Chachoengsao	77,794	443,000	229,176	232,509	115,251	144,850	83,979	54,433	96,311	44,036
North Eastern Region	407,400	482,760	1,084,564	720,712	444,039	490,807	236,580	55,912	256,544	775,697
Kalasin	65,300	65,300	345,204	96,056	48,016	44,106	36,243	30,837	31,039	40,354
Khon Kaen	42,600	42,600	375,060	127,720	46,233	59,594	32,148	7,782	29,281	28,992
Nakhon Phanom	51,060	51,060	51,060	51,060	47,544	93,090	16,020		95,488	298,487
Bueng Kan				43,200	43,200	40,500	10,800		31,977	216,372
Loei	42,000	42,000	42,000	38,304	37,728	32,976	9,432		4,634	24,588
Mukdahan	68,740	68,740	68,740	68,740	78,660	102,200	22,300			
Nong Khai	36,240	46,800	36,240	56,160	56,160	48,768	14,040		2,265	51,445
Amnat Charoen	3,640	3,640	3,640	5,424	5,290	3,150	4,827	70		
Udon Thani									18,096	80,940
Ubon Ratchathani	97,820	162,620	162,620	234,048	81,208	66,423	90,770	17,223	43,764	34,519
Total	10,871,782	12,396,078	15,462,148	14,934,753	16,842,120	13,987,405	6,242,417	2,552,723	4,288,543	7,058,067

Table 35: Number of vessel trips in the sea areas, classified by province for 2014-2023.

Province	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Southern Region	14,435,458	23,562,477	24,256,662	26,924,571	22,055,440	26,068,047	8,848,354	5,206,934	20,787,151	28,559,437
Krabi	1,035,160	4,486,370	4,671,492	5,099,730	4,566,234	6,026,686	630,150	210,330	2,995,303	4,226,913
Chumphon	201,205	241,641	209,356	306,855	387,144	256,788	253,144	106,733	210,623	322,842
Trang	70,296	117,404	121,952	129,530	99,180	91,880	490,600	214,928	207,465	65,869
Nakhon Si Thammarat	3,620,408	4,273,808	4,273,808	4,273,808	574,140	1,187,200	612,000		882,211	453,892
Narathiwat	902,340	1,164,520	983,600	1,027,912	961,826	809,392	156,552		79,658	446,944
Phang Nga	622,692	622,692	622,692	1,004,676	1,672,464	2,042,982	952,513	984,038	112,333	139,694
Phatthalung	50,560	50,560	50,560	50,560	31,692	36,100	1,561	829		
Phuket	1,947,389	6,204,266	6,972,430	8,327,438	8,471,312	8,875,324		285,522	2,921,218	3,525,086
Ranong	473,600	473,600	473,600	640,100	1,257,740	564,822	91,680	193,474	174,206	448,599
Songkhla	3,960,568	3,960,568	3,960,568	3,960,568	1,864,080	3,510,000	4,980,660	3,211,080	6,334,979	10,007,209
Satun	334,472	334,472	342,220	529,010	622,260	680,870	21,220		858,811	979,964
Surat Thani	1,216,768	1,632,576	1,574,384	1,574,384	1,547,368	1,986,003	658,274		6,010,344	7,942,425
Western Region	115,792	115,792	101,288	1,022,280	652,364	427,237	306,545	46,908	108,535	85,203
Prachuap Khiri Khan	113,472	113,472	98,968	1,019,960	643,796	417,853	301,157	41,688	74,969	57,499
Phetchaburi	2,320	2,320	2,320	2,320	8,568	9,384	5,388	5,220	33,566	27,704
Eastern Region	5,760,504	5,215,148	5,321,048	5,304,264	10,246,336	12,793,121	2,808,925	236,784	5,505,521	6,995,493
Chanthaburi	28,204	92,500	197,112	180,328	205,384	266,270	140,794	34,168	146,697	157,470
Chon Buri	3,792,140	3,183,776	3,183,776	3,183,776	4,206,712	7,437,227	165,620	80,578	486,345	555,635
Chon Buri (Pattaya)									1,826,236	2,963,978
Trat	1,802,280	1,802,280	1,802,280	1,802,280	3,612,640	3,459,780	1,816,766	122,038	2,005,234	2,036,936
Rayong	137,880	136,592	137,880	137,880	2,221,600	1,629,844	685,745		1,041,009	1,281,474
Total	20,311,754	28,893,417	29,678,998	33,251,115	32,954,140	39,288,405	11,963,824	5,490,626	26,401,207	35,640,133

