

ANNUAL MARITIME STATISTICS

(International and National Data)



FOREWORD

This Statistical Report is a compilation of International and National Maritime Data/Statistics for the years 2022 and below. The report provides an overview of the international and the Philippine maritime industry through comparative statistics on shipping, port operations, shipbuilding, manpower development, and maritime safety.

Data were collected from international organizations such as United Nations Conference on Trade and Development (UNCTAD), Statista, and Baltic and International Maritime Council (BIMCO) and the International Chamber of Shipping (ICS), Philippine maritime agencies like Philippine Ports Authority, Cebu Port Authority, Philippine Coast Guard and other related government agencies such as Department of Migrant Workers/Philippines Overseas Employment Administration, and Commission on Higher Education.

This Office hopes that the maritime data contained in this report will assist data users in the various planning activities and formulation of policies necessary for the development of the maritime industry.

- MANAGEMENT INFORMATION SYSTEMS SERVICE

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
MARITIME INDUSTRY AUTHORITY

**ANNUAL MARITIME
STATISTICS
(INTERNATIONAL AND NATIONAL DATA)**

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INTERNATIONAL DATA



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PHILIPPINE MERCHANT FLEET BY TYPE OF SHIP

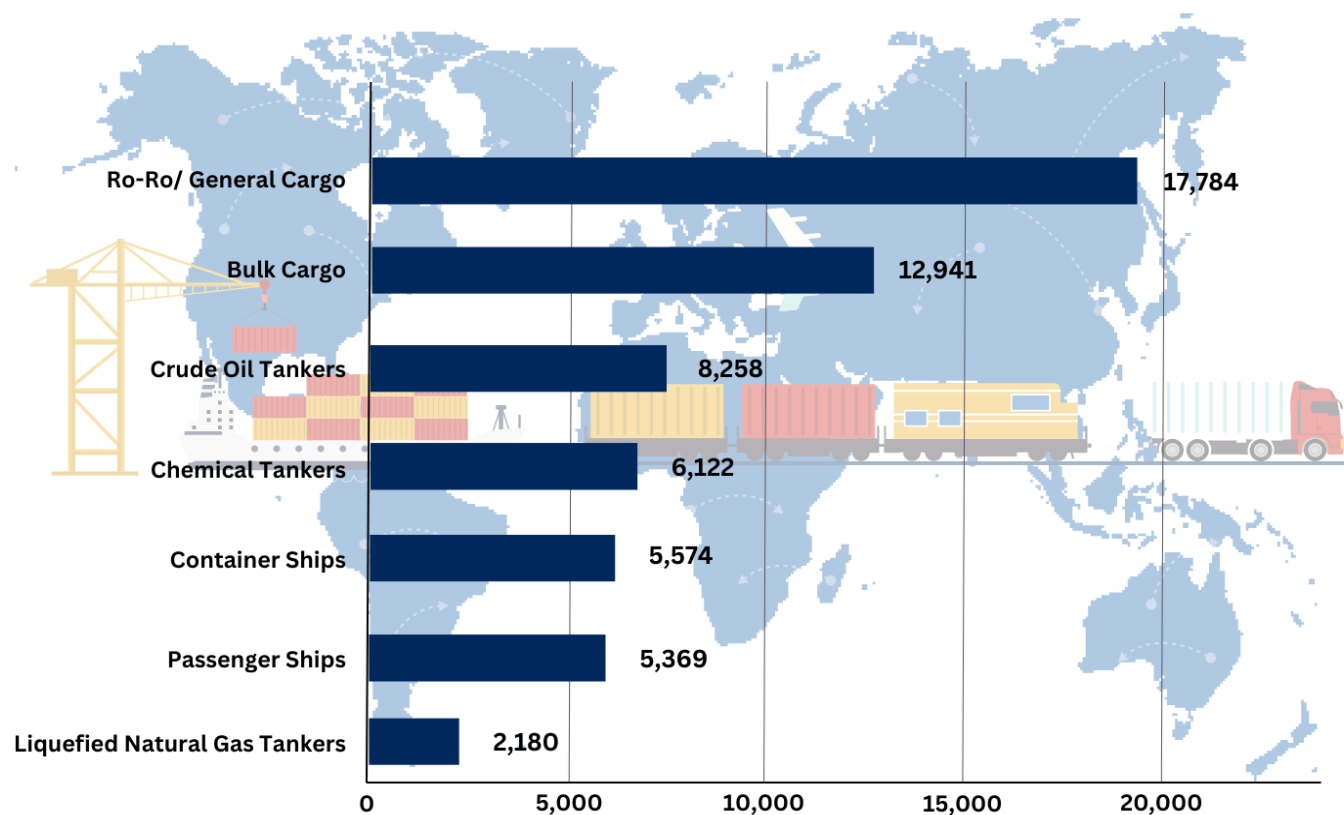
PHILIPPINES	TYPE OF SERVICE	NUMBER OF SHIPS				
		2018	2019	2020	2021	2022
	Oil Tankers	193	201	210	210	210
	Bulk Carriers	59	54	69	62	59
	General Cargo	682	721	748	947	950
	Container Ships	43	46	45	44	43
	Other Types of Ships	721	757	790	949	946
	Total Fleet	1,698	1,779	1,862	2,212	2,208

This table shows the number of ships in the Philippines by type of service. The data applies to seagoing-propelled merchant ships with a gross tonnage of 100 or more, excluding inland waterway vessels, fishing vessels, military vessels, yachts, and offshore fixed and mobile platforms and barges (with the exception of FPSO - floating production, storage and offloading vessels and drillships).

Source: UNCTADStat Website, based on the data supplied by Clarkson Research Services (London)

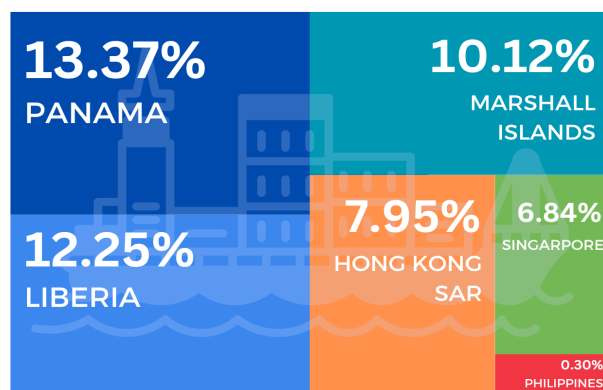
NUMBER OF MERCHANT SHIPS WORLDWIDE

Number of Ships in the World Merchant Fleet (2022)



Source: Statista Website

SHARE OF THE WORLD MERCHANT FLEET VALUE BY FLAG OF REGISTRATION



Percentage of Global Fleet Value in US Dollars (2022)

	ECONOMY	PERCENTAGE OF GLOBAL FLEET VALUE IN US DOLLARS			
		2019	2020	2021	2022
1	PANAMA	14.23	13.42	13.65	13.37
2	LIBERIA	8.55	9.19	10.06	12.25
3	MARSHALL ISLANDS	11.31	10.98	10.49	10.12
4	HONG KONG SAR	7.04	6.89	7.18	7.95
5	SINGAPORE	5.89	6.38	6.35	6.84
35	PHILIPPINES	0.32	0.34	0.32	0.30

In terms of the share of the percentage of the global fleet value, the top five (5) flags of registration were Panama, Liberia, Marshall Islands, Hong Kong SAR, and Singapore in 2022. The Philippines got number 35th in the rank.

The values are calculated using matrices based on representative newbuilding, second-hand, and demolition values for all oil/product tankers, bulk carriers, combined carriers, container ships, and gas carriers with a gross tonnage of 1000 and above.

Source: UNCTADStat Website, based on the data supplied by Clarkson Research Services (London)

SHIP OWNERSHIP

		OWNERSHIP OF THE WORLD FLEET RANKED BY CARRYING CAPACITY (2022)					
		Deadweight Tonnage (DWT) in thousands			Number of Vessels		
		National Flag	Foreign Flag	Total all Flags	National Flag	Foreign Flag	Total all Flags
1	GREECE	55,705	332,118	387,824	621	4283	4904
2	CHINA	115,373	164,057	279,431	5713	2587	8300
3	JAPAN	35,955	200,610	236,565	926	3069	3995
4	SINGAPORE	68,372	69,378	137,751	1381	1418	2799
5	HONG KONG SAR	72,237	39,594	111,832	851	950	1801
57	PHILIPPINES	1,907	482	2,389	523	61	584

In 2022, the Philippines was ranked number 57 and the top five (5) ship-owning countries were Greece, China, Japan, Singapore, and Hong Kong SAR leads in terms of dead-weight tonnage.

All propelled sea-going merchant vessels of 1000 GT and above are covered by this table, along with offshore drill ships and Floating Production, Storage and Offloading units (FPSOs).

The country or territory that issues the merchant vessel's registration or license is known as the flag state, and it is considered to be the vessel's nationality.

Source: UNCTADStat Website, based on the data provided by Clarkson Research Services (London)


LEADING FLAG OF REGISTRATION IN TERMS OF DEADWEIGHT TONNAGE (DWT) AND GROSS TONNAGE (GT)

		Gross Tonnage (GT) in thousands				Deadweight Tonnage (DWT) in thousands			
		2019	2020	2021	2022	2019	2020	2021	2022
1	PANAMA	218,985	218,364	227,114	230,487	333,788	329,132	344,580	350,322
2	LIBERIA	154,078	171,629	185,318	207,730	243,887	275,242	299,827	335,835
3	MARSHALL ISLANDS	152,952	161,177	168,204	177,890	245,715	262,055	274,265	289,891
4	HONG KONG SAR	125,095	127,352	129,764	131,258	198,830	201,422	205,028	207,814
5	SINGAPORE	86,837	92,940	91,048	89,004	129,247	139,911	136,315	131,432
32	PHILIPPINES	3,974	4,525	4,508	4,464	5,667	6,625	6,577	6,493


This table shows the Leading Flag of Registration in terms of deadweight tonnage (DWT) and gross tonnage (GT). The Philippines ranked 32nd in terms of DWT and 29th in GT in 2022.

Source: UNCTADStat Website, based on the data supplied by Clarkson Research Services (London)

PORT CALL AND PERFORMANCE STATISTICS: VESSEL AGE AND SIZE



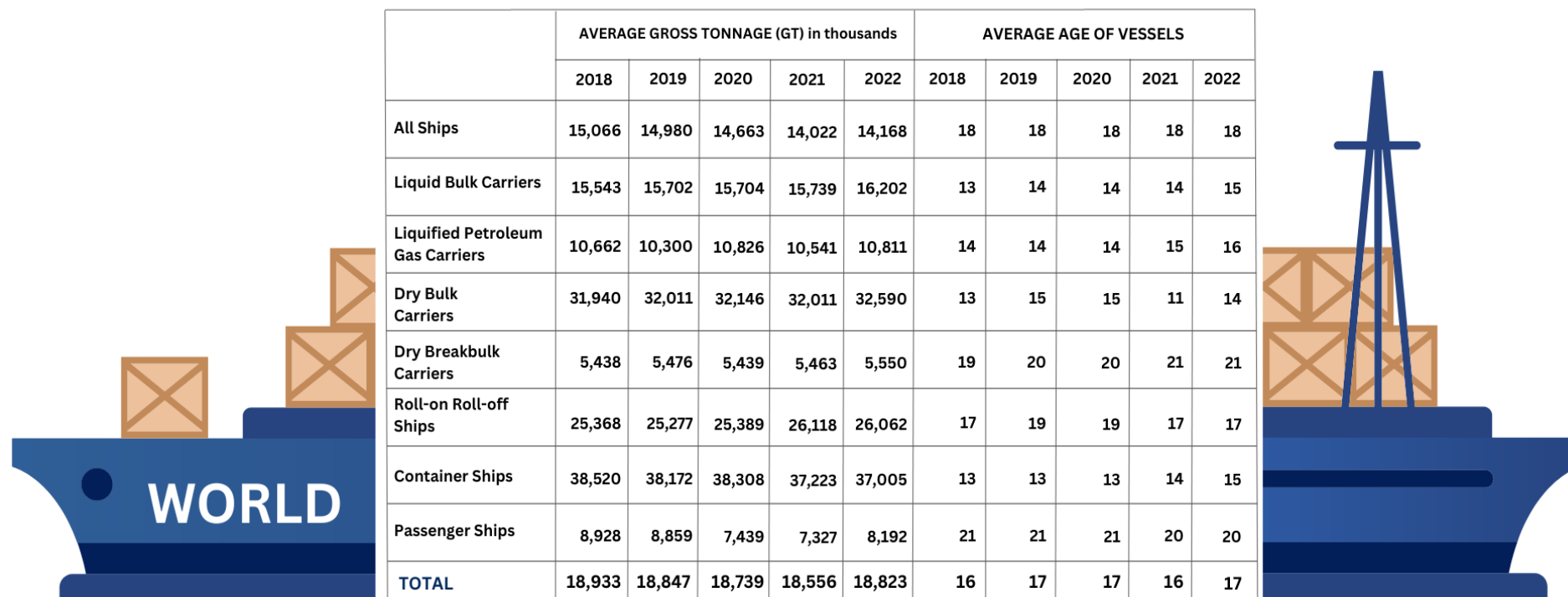
TYPE OF SERVICE	AVERAGE GROSS TONNAGE (GT) in thousands				AVERAGE AGE OF VESSELS			
	2018	2019	2020	2021	2018	2019	2020	2021
All Ships	6,970	7,075	8,179	7,631	19	20	20	19
Liquid Bulk Carriers	7,931	7,097	7,934	7,393	12	12	14	12
Liquified Petroleum Gas Carriers	7,411	6,296	8,437	7,424	11	12	10	13
Dry Bulk Carriers	22,763	24,599	25,600	26,935	12	11	12	13
Dry Breakbulk Carriers	4,219	4,271	4,167	4,084	19	19	20	20
Roll-on Roll-off Ships	14,937	16,273	16,731	18,959	26	26	26	27
Container Ships	18,115	19,124	19,124	17,933	15	15	15	16
Passenger Ships	3,064	3,057	3,057	3,597	21	23	23	21
TOTAL	10,676	10,974	11,862	11,745	17	17	18	18



This table presents the average age of vessels and the average Gross Tonnage (GT) of the Philippines. The data were obtained from Marine Traffic's automatic identification system with port mapping intelligence for ships above 1000 GT. Average GT and Average Age of Vessels, each ship is counted as often as it has called in the country's ports.

Source: UNCTADStat Website, based on the data provided by MarineTraffic

PORT CALL AND PERFORMANCE STATISTICS: VESSEL AGE AND SIZE



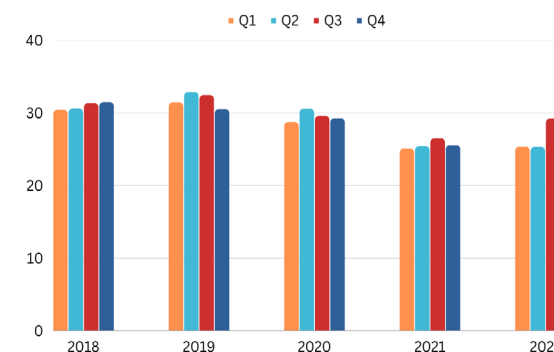
	AVERAGE GROSS TONNAGE (GT) in thousands					AVERAGE AGE OF VESSELS				
	2018	2019	2020	2021	2022	2018	2019	2020	2021	2022
All Ships	15,066	14,980	14,663	14,022	14,168	18	18	18	18	18
Liquid Bulk Carriers	15,543	15,702	15,704	15,739	16,202	13	14	14	14	15
Liquified Petroleum Gas Carriers	10,662	10,300	10,826	10,541	10,811	14	14	14	15	16
Dry Bulk Carriers	31,940	32,011	32,146	32,011	32,590	13	15	15	11	14
Dry Breakbulk Carriers	5,438	5,476	5,439	5,463	5,550	19	20	20	21	21
Roll-on Roll-off Ships	25,368	25,277	25,389	26,118	26,062	17	19	19	17	17
Container Ships	38,520	38,172	38,308	37,223	37,005	13	13	13	14	15
Passenger Ships	8,928	8,859	7,439	7,327	8,192	21	21	21	20	20
TOTAL	18,933	18,847	18,739	18,556	18,823	16	17	17	16	17

This table presents the average age of vessels and the average Gross Tonnage (GT) of the world fleet. The data were obtained from Marine Traffic's AIS automatic identification system with port mapping intelligence for ships above 1000 GT. Average GT and Average Age of Vessels, each ship is counted as often as it has called in the country's ports.

Source: UNCTADStat Website, based on the data provide by MarineTraffic

LINER SHIPPING CONNECTIVITY INDEX (LSCI)

	2018	2019	2020	2021	2022
Q1	30.40	31.46	28.72	25.08	25.33
Q2	30.59	32.88	30.57	25.41	25.30
Q3	31.33	32.44	29.60	26.50	29.21
Q4	31.48	30.51	29.25	25.54	29.99



This table presents the liner shipping connectivity index (LSCI) in the Philippines, which indicates the country's integration level into global liner shipping networks. LSCI is calculated from the number of ship calls, container carrying capacity, services, and companies, the size of the largest ship, and the number of other countries connected through direct liner shipping services.

Source: UNCTADStat Website, based on MDS Transmodal

SHIPBUILDING

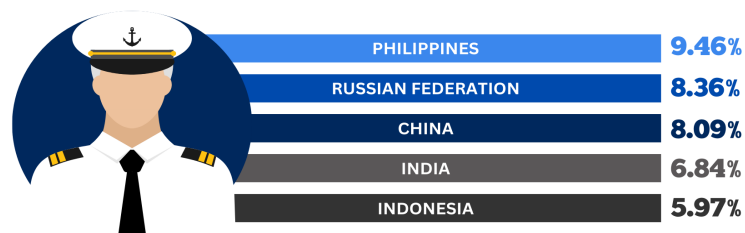
DELIVERIES OF NEWBUILDS BY COUNTRY OF CONSTRUCTION in Gross Tonnage (GT)						
	ECONOMY	2018	2019	2020	2021	2022
1	China	23,259,789	23,074,209	23,257,200	26,863,204	25,893,611
2	Korea, Republic of	14,633,292	21,670,363	18,173,891	19,687,307	16,254,013
3	Japan	14,440,056	16,241,929	12,827,375	10,726,209	9,585,299
4	Italy	477,316	527,024	518,236	498,889	730,956
5	France	360,243	353,139	132,141	177,290	593,546
6	Viet Nam	480,930	555,081	544,699	372,492	444,033
7	Philippines	1,987,637	802,366	608,211	643,456	395,586
8	Germany	478,696	487,267	288,228	382,735	320,581
9	Russian Federation	82,588	99,662	241,843	135,694	251,722
10	Finland	138,189	334,879	181,808	221,100	244,767

China, the Republic of Korea, and Japan continue to dominate the maritime ship supply worldwide, while shipbuilding in the Philippines has dropped by 38.5% from the previous year.

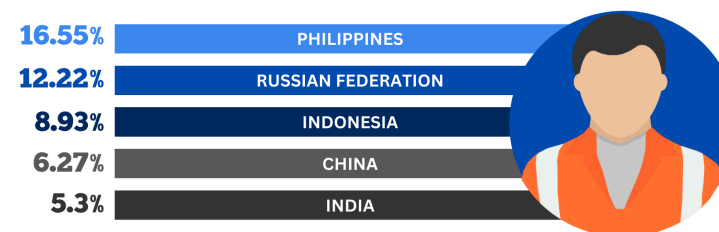
Source: UNCTADStat Website, based on the data supplied by Clarkson Research Services

FIVE (5) LARGEST SEAFARER SUPPLY COUNTRIES

OFFICERS



RATINGS



OVERALL RATING



According to the Seafarer Workforce Report on the Global Supply and Demand of Seafarers in 2021 by The Baltic and International Maritime Council (BIMCO) and the International Chamber of Shipping (ICS), the Philippines is the largest provider of seafarers for both officers and ratings globally. The BIMCO and ICS release a report on seafarers every five (5) years.

Sources: BIMCO/ICS Seafarer Workforce Report
UNCTADStat Website



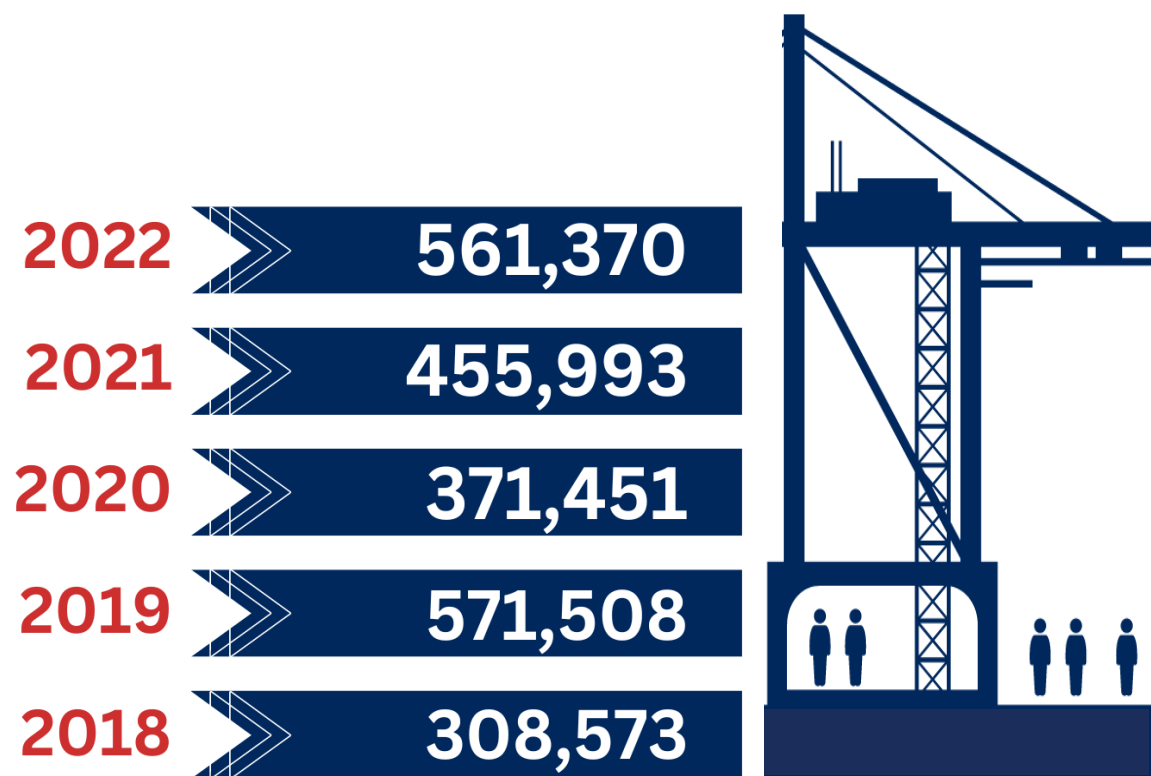
NATIONAL DATA

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TABLE 1

PROCESSED EMPLOYMENT CONTRACTS



Sources: Department of Migrant Workers, Migrant Workers Statistics Compendium 2022 vs 2021
Philippine Overseas Employment Administration

TABLE 2

DEPLOYED FILIPINO SEAFARERS BY MAJOR CATEGORY

MAJOR CATEGORY	2021	2022
OFFICERS	74,304	80,868
RATING	135,370	140,041
NON-MARINE	135,800	164,291
OTHERS (NEC)*	43	39
TOTAL	345,517	385,239

Sources: Department of Migrant Workers, Migrant Workers Statistics Compendium 2022 vs 2021
Philippine Overseas Employment Administration

*NEC - Not Elsewhere Classified

TABLE 3

DEPLOYED FILIPINO SEAFARERS BY TOP 10 SKILLS

SKILLS CATEGORY	2021	2022
ABLE SEAMAN	52,372	55,084
ORDINARY SEAMAN	27,184	27,799
OILER	24,224	24,223
BOSUN	13,447	14,083
WAITER/WAITRESS	10,055	13,451
CHIEF COOK	12,598	12,963
SECOND MATE	11,970	12,859
THIRD ENGINEER OFFICER	10,615	11,299
THIRD MATE	10,571	10,933
MESSMAN	10,855	10,942
Other Skills	160,626	191,543
TOTAL	345,517	385,239

Sources: Department of Migrant Workers, Migrant Workers Statistics Compendium 2022 vs 2021
Philippine Overseas Employment Administration

TABLE 4

DEPLOYED FILIPINO SEAFARERS BY TOP 10 TYPE OF VESSELS

TYPE OF VESSELS	2021	2022
PASSENGER	72,813	101,109
BULK CARRIER	84,225	90,654
CONTAINER	37,104	37,116
OIL/PRODUCT TANKER	28,310	29,247
CHEMICAL TANKER	21,726	21,842
GENERAL CARGO	13,527	15,023
TANKER	15,420	14,508
GAS TANKER	9,451	9,462
PURE CAR CARRIER	9,322	8,876
LIQUIFIED NATURAL GAS (LNG)	7,576	7,875
Other Types of Vessels	46,043	49,527
TOTAL	345,517	385,239

Sources: Department of Migrant Workers, Migrant Workers Statistics Compendium 2022 vs 2021
Philippine Overseas Employment Administration

TABLE 5

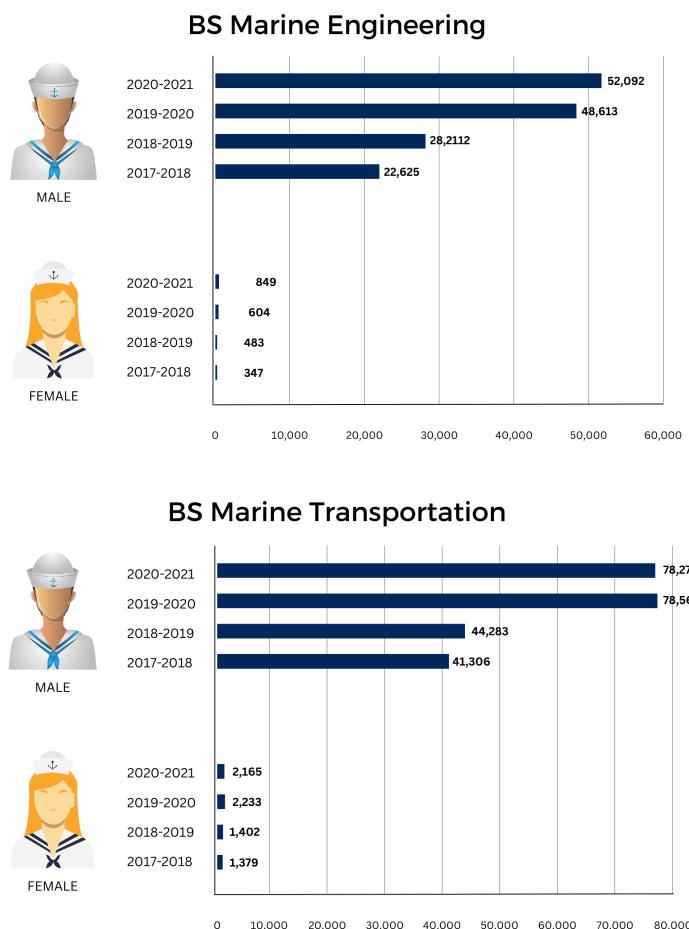
DEPLOYED FILIPINO SEAFARERS BY FLAG OF REGISTRATION

FLAGS OF REGISTRY	2021	2022
PANAMA	50,939	52,994
BAHAMAS	44,465	52,544
MARSHALL ISLANDS	38,655	43,504
LIBERIA	37,458	41,804
MALTA	29,294	33,398
SINGAPORE	19,109	18,591
BERMUNDA	8,141	13,158
NETHERLANDS	10,098	13,004
ITALY	8,558	11,190
CYPRUS	8,400	8,620
Other Flags of Registry	90,400	96,432
TOTAL	345,517	385,239

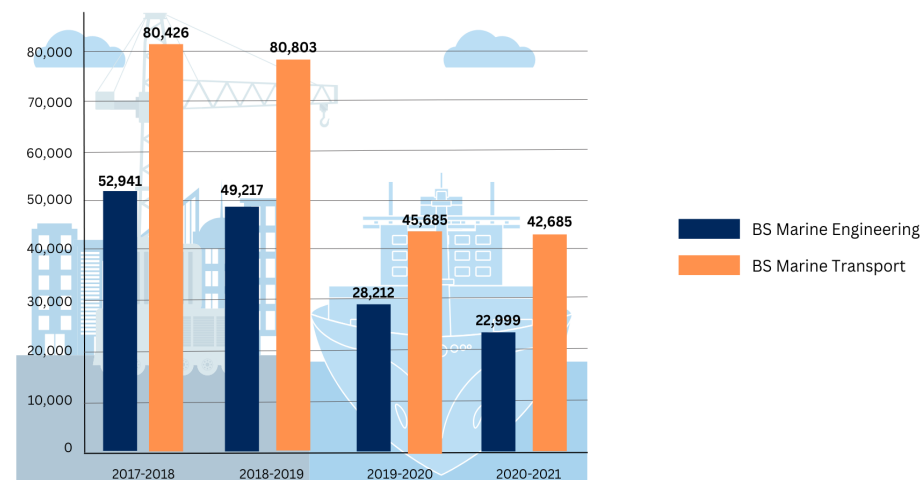
Sources: Department of Migrant Workers, Migrant Workers Statistics Compendium 2022 vs 2021
Philippine Overseas Employment Administration

TABLE 6

PHILIPPINE ENROLLMENT FOR BS MARINE ENGINEERING AND BS MARINE TRANSPORTATION BY GENDER (2017-2021)



Total Number of Enrollees

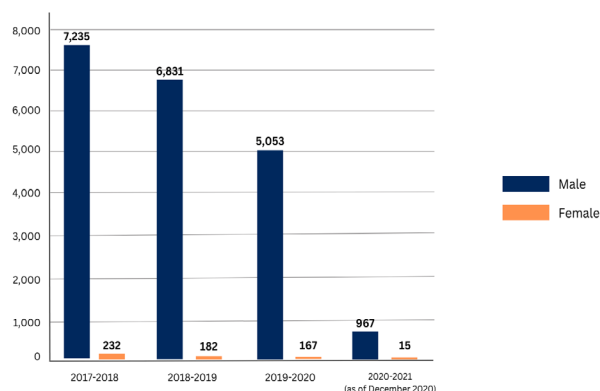


Source: Commission on Higher Education (CHED)

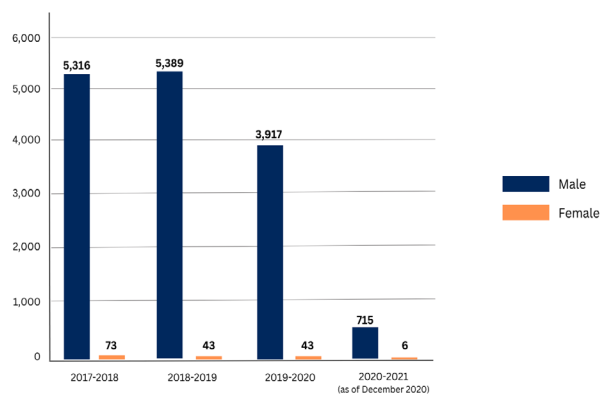
TABLE 7

PHILIPPINE GRADUATE DATA FOR BS MARINE ENGINEERING AND BS MARINE TRANSPORTATION BY GENDER (2017-2021)

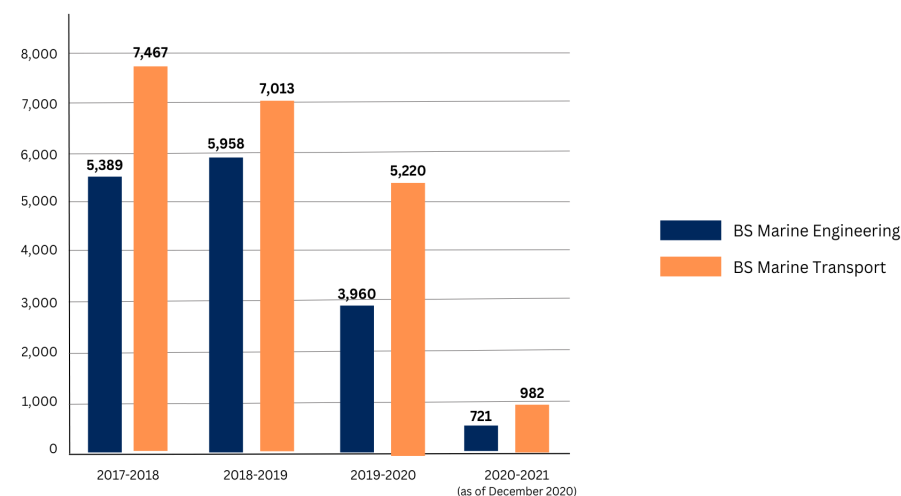
Number of BS Marine Transportation Graduate



Number of BS Marine Engineering Graduate



Total Number of Graduates



Source: Commission on Higher Education (CHED)

TABLE 8

REMITTANCE OF OVERSEAS FILIPINO WORKERS



Amount in Thousand
US Dollars

	SEA BASED	LAND BASED	TOTAL
2022	6,715,880	25,823,550	32,539,430
2021	6,545,002	24,872,612	31,417,614
2020	6,353,522	23,903,256	30,256,778
2019	6,539,246	23,594,054	30,133,300
2018	6,139,512	22,803,600	28,943,112

Source: Bangko Sentral ng Pilipinas (BSP)

TABLE 9

MARITIME INCIDENTS STATISTICS

INCIDENTS	NUMBER OF MONITORED INCIDENTS				NUMBER OF CONFIRMED ACTED UPON			
	2019	2020	2021	2022	2019	2020	2021	2022
Major Incidents								
Allision/Collision	42	42	32	22	42	42	32	22
Sinking/Capsized	91	91	94	87	91	91	94	88
Aground	56	55	66	86	56	55	66	86
Listing/Drifting	11	11	34	25	11	11	34	25
Flooding	4	4	25	13	4	4	25	13
Oil Spill	17	17	15	21	17	17	15	21
Fire/Explosion	10	10	24	15	10	10	24	15
Sub-Total	231	230	290	269	231	230	290	270
Other Incidents								
Half-Submerged	35	35	95	37	35	35	95	37
Eqpt/Mach. Trouble	105	105	110	107	89	89	71	76
Sea Jacking/Piracy	2	2	7	6	2	2	7	6
Missing Vessel	14	14	20	10	14	14	20	10
Broken Vessel	15	15	2	9	15	15	2	9
Missing Fishermen	132	132	194	145	132	132	194	145
Missing Aircraft								
Medical Evacuation	35	34	24	41	35	34	24	41
Man Overboard	25	25	19	26	25	25	19	26
Drowning/Missing	183	182	207	211	183	182	207	211
Illegal Fishing	41	41	108	90	41	41	108	90
Apprehension	87	86	66	52	87	86	66	52
Bom/Drug Detection	11	11	6	47	11	11	6	47
Maritime Engagements								
Civil Disturbances				1				1
Natural Calamity	6	6	4	13	6	6	4	13
Unusual Incidents	146	146	124	143	146	146	124	141
Sub-Total	837	834	986	938	821	818	947	905
GRAND TOTAL	1,068	1,064	1,276	1,207	1,052	1,048	1,237	1,175

RESPONSE	2019	2020	2021	2022
Assisted Passengers/Crews	1,020	1,020	580	492
Rescued Persons	10,961	10,666	3,104	5,258
Missing	259	259	358	265
Casualty	294	293	351	314
Apprehended	522	517	895	799

Source: Philippine Coast Guard (PCG)

TABLE 10

NUMBER OF SHIP CALLS



YEAR	PHILIPPINE PORTS AUTHORITY (PPA)			CEBU PORTS AUTHORITY (CPA)		
	<i>Domestic</i>	<i>Foreign</i>	<i>Total</i>	<i>Domestic</i>	<i>Foreign</i>	<i>Total</i>
2018	457,048	11,391	468,439	138,055	1,074	139,129
2019	491,836	11,262	503,098	148,586	1,134	149,720
2020	310,361	11,573	321,934	78,530	1,013	79,543
2021	367,448	11,778	379,226	85,264	1,033	86,297
2022	464,729	11,427	476,156	111,521	980	112,501

Sources: Philippine Ports Authority (PPA)
Cebu Port Authority (CPA)

TABLE 11

CARGO THROUGHPUT

YEAR	PHILIPPINE PORTS AUTHORITY (PPA)						GRAND TOTAL
	CARGO THROUGHPUT (in metric tons)						
	DOMESTIC			FOREIGN			
	Inbound	Outbound	Total	Import	Export	Total	
2018	59,574,429	45,815,751	105,390,180	100,793,335	54,769,957	155,563,292	260,953,472
2019	57,482,567	46,404,014	103,886,581	100,298,176	61,690,679	161,988,855	265,875,436
2020	52,722,319	40,426,839	93,149,158	90,150,167	60,245,202	150,395,369	243,544,527
2021	54,977,723	41,531,740	96,509,473	94,693,394	70,902,025	165,541,419	262,050,892
2022	51,325,849	46,996,364	98,429,585	97,514,029	62,932,261	160,446,290	258,875,875

YEAR	CEBU PORT AUTHORITY (CPA)						GRAND TOTAL
	CARGO THROUGHPUT (in metric tons)						
	DOMESTIC			FOREIGN			
	Inbound	Outbound	Total	Export	Import	Total	
2018	19,158,749	22,354,074	41,512,823	2,648,561	11,754,538	14,403,099	55,915,922
2019	21,347,472	23,344,034	44,691,506	2,034,180	12,266,423	14,300,603	58,992,109
2020	19,177,886	20,104,665	39,282,551	2,277,766	11,730,931	14,008,697	53,291,248
2021	23,677,679	23,649,992	47,327,671	2,337,351	12,324,224	14,661,575	61,989,246
2022	26,836,624	25,294,126	52,130,750	1,692,999	12,478,763	14,171,762	66,302,512

Sources: Philippine Ports Authority (PPA)
Cebu Port Authority (CPA)

TABLE 12

PASSENGER TRAFFIC

PHILIPPINE PORTS AUTHORITY (PPA)				
YEAR	PASSENGER TRAFFIC			TOTAL
	Disembarked	Embarked	Cruise Ships Passengers	
2018	39,297,414	37,049,698	451,063	76,798,175
2019	42,308,684	41,198,946	213,765	83,721,395
2020	12,588,486	12,276,337	31,340	24,886,437
2021	11,791,926	11,285,048	-	23,076,974
2022	29,933,681	29,259,295	-	59,192,976

CEBU PORT AUTHORITY (CPA)				
YEAR	PASSENGER TRAFFIC			TOTAL
	Disembarked	Embarked	Cruise Ships Passengers	
2018	11,144,683	10,818,468	0	21,963,151
2019	11,755,492	11,232,584	0	22,988,076
2020	3,189,996	3,077,240	0	6,267,236
2021	2,496,777	2,503,460	0	5,000,237
2022	7685,914	7,234,114	0	14,920,028

Sources: Philippine Ports Authority (PPA)
Cebu Port Authority (CPA)

~ End of Report ~