

News Release

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Technical:	Will Nicolls	301-278-9544	MarineEconomy@bea.gov
	Kyle Brown	301-278-9688	
Media:	Connie O’Connell	301-278-9003	Connie.OConnell@bea.gov

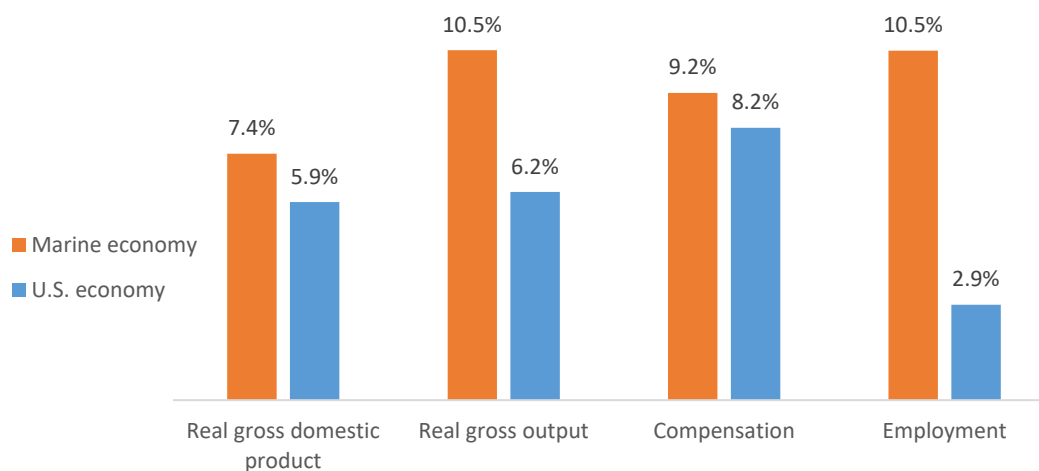
Marine Economy Satellite Account, 2021

New Statistics for 2021; 2014–2020 Updated

The Marine Economy Satellite Account (MESA) statistics released today by the U.S. Bureau of Economic Analysis (BEA) show the marine economy accounted for 1.9 percent, or \$432.4 billion, of current-dollar U.S. gross domestic product (GDP) in 2021, an increase from 1.7 percent, or \$363.2 billion, in 2020 (tables 2 and 3). The marine economy accounted for 1.8 percent, or \$730.0 billion, of current-dollar gross output (table 8).

Real (inflation-adjusted) GDP for the marine economy increased 7.4 percent from 2020 to 2021 (table 1), compared with a 5.9 percent increase for the overall U.S. economy. This reflected a rebound after the marine economy’s 6.0 percent decrease in 2020, the first year of the COVID–19 pandemic. Marine economy compensation increased 9.2 percent, or \$16.0 billion, and employment increased 10.5 percent, or about 221,000 full- and part-time employees.

Chart 1. Growth in Marine Economy Compared to U.S. Economy, 2021



U.S. Bureau of Economic Analysis

Today's release also reflects updated statistics for 2014–2020. Gross output, value added, employment, and compensation were updated to include the results of the 2022 annual update of the National Economic Accounts, which includes the Industry Economic Accounts. The updated statistics reflect newly available and revised source data, as well as methodological improvements.

Marine economy by activity

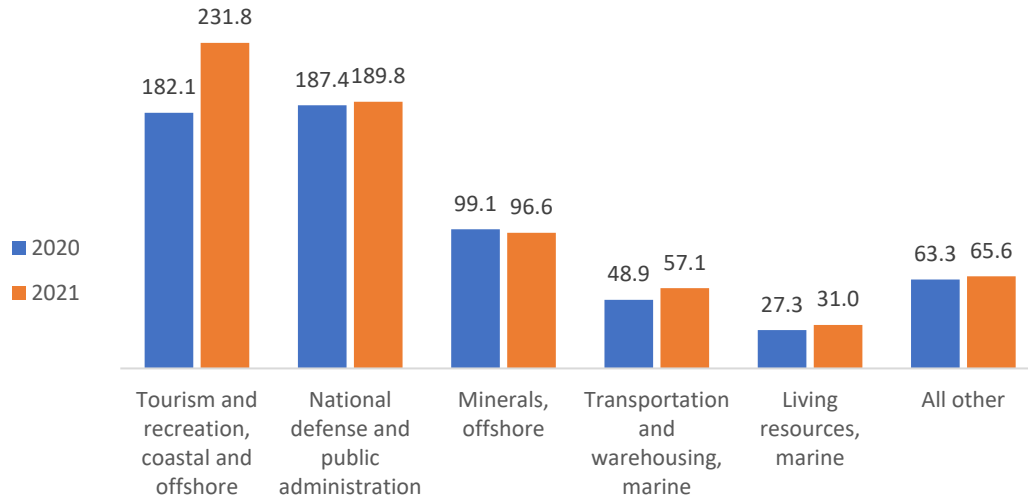
To estimate the marine economy by activity, the MESA reorganizes industry value added and gross output statistics and presents the data in a framework that reflects marine-related activities. Marine economy activities fall into the following 10 general categories:

- Living resources, marine
- Construction, coastal and marine
- Research and education, marine
- Transportation and warehousing, marine
- Professional and technical services, marine
- Minerals, offshore
- Utilities, coastal
- Ship and boat building, nonrecreational
- Tourism and recreation, coastal and offshore
- National defense and public administration

MESA real gross output—principally a measure of the marine economy's inflation-adjusted sales or receipts, which includes sales to final users in the economy (GDP) and sales to other industries (intermediate inputs)—increased 10.5 percent, or \$63.9 billion, in 2021 (tables 7 and 9). Marine economy activity highlights for 2021 include the following:

- **Tourism and recreation, coastal and offshore** increased 27.3 percent, or \$49.8 billion, to a level of \$231.8 billion, making it the largest contributor to the growth in 2021 MESA real gross output.
- **Transportation and warehousing, marine** increased 16.8 percent, or \$8.2 billion, to \$57.1 billion, making it the second-largest contributor to the overall growth.
- **Living resources, marine** increased 13.5 percent, or \$3.7 billion, to \$31.0 billion.
- **Minerals, offshore** decreased 2.5 percent, or \$2.5 billion, to \$96.6 billion, making it the largest offset to the overall growth in 2021 MESA real gross output.

Chart 2. Real Gross Output Level by Activity
Billions of chained (2014) dollars



U.S. Bureau of Economic Analysis

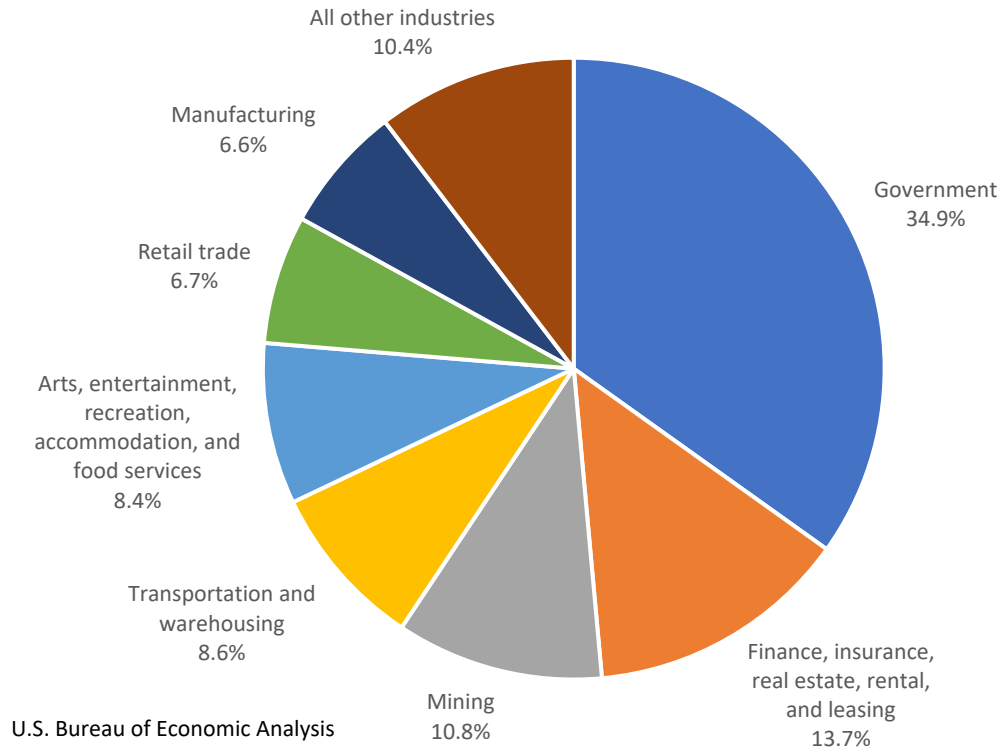
Marine economy by industry

The industry statistics show the contributions of industries to the marine economy, including their impact on value added (or GDP by industry), gross output, employment, and compensation.

Marine economy industry highlights for 2021 include the following:

- **Government**—as a share of marine economy current-dollar value added—was the largest industry group and accounted for 34.9 percent, or \$150.8 billion (chart 3 and table 6), and was the largest industry group for compensation (\$92.2 billion) and for employment (about 717,000 full- and part-time jobs).
- **Finance, insurance, real estate, rental, and leasing** was the second-largest industry group as a share of the marine economy and accounted for 13.7 percent, or \$59.1 billion, of current-dollar value added.
- **Transportation and warehousing** accounted for 8.6 percent, or \$37.2 billion, of marine economy value added, with the second-largest level of compensation (\$23.6 billion).
- **Accommodation and food services** accounted for 6.6 percent, or \$28.6 billion, of value added and was the second-largest industry group for employment (about 394,000 full- and part-time jobs) in 2021.

Chart 3. Industry Composition of Marine Economy Value Added, 2021



The Marine Economy Satellite Account Estimation Methods

The Marine Economy Satellite Account measures the economic activity associated with the marine economy, identifies the industries responsible for producing these goods and services, and measures the output, value added, compensation, and employment associated with that production. Like other BEA satellite accounts, the MESA was built on BEA's comprehensive supply-use framework. The supply-use tables provide a detailed look at the relationships among industries and how each industry contributes to GDP. In practice, the MESA is a rearrangement of the published supply-use tables with new estimation methods that isolate marine-related spending and production. A variety of private and public data sources were used to identify marine-related spending and production to develop the MESA estimates.

An important feature of the MESA is the presentation of estimates of gross output and value added by marine economic activity, in addition to the standard presentation of estimates by industry. This allows for the marine economy to be better analyzed in areas where significant economic activity occurs across a variety of industries.

The geographic scope of the MESA includes the Atlantic, Pacific, and Arctic Oceans within the Exclusive Economic Zone (approximately 200 nautical miles off the U.S. coast) as well as marginal seas, such as the Gulf of Mexico, Chesapeake Bay, Puget Sound, Long Island Sound, San Francisco Bay, and others. Also included is the U.S. shoreline directly along these bodies of water. Furthermore, the Great Lakes are included up to the international boundary with Canada.

For additional information on the marine economy statistics as well as the data sources and methodology that underlie their preparation, refer to [Defining and Measuring the U.S. Ocean Economy](#).

The Marine Economy Satellite Account was produced in partnership with the National Oceanic and Atmospheric Administration.

Data Availability

The complete set of [detailed annual statistics for 2014–2021](#) are available on BEA's website. Statistics include data on marine economy gross output and value added presented by both industry and activity as well as employment and compensation presented by industry.

Next release: Spring 2024
Marine Economy Satellite Account, 2022

Additional Information

Resources

- The full economic effects of the COVID–19 pandemic cannot be quantified in these statistics, because the impacts are generally embedded in source data and cannot be separately identified. For more information about COVID–19 impacts, refer to “[Federal Recovery Programs and BEA Statistics](#)” on our website.
- Find the latest information on the Marine Economy Satellite Account (MESA) at BEA’s [marine economy page](#).
- Stay informed about BEA developments by reading [The BEA Wire](#), signing up for BEA’s [email subscription service](#), or following BEA on Twitter [@BEA_News](#).
- Access BEA data by registering for BEA’s [Data Application Programming Interface](#).
- For more on BEA’s statistics, see our online journal, the [Survey of Current Business](#).
- For upcoming economic indicators, see BEA’s [news release schedule](#).

Definitions

Gross domestic product (GDP) or value added is the value of the goods and services produced by the nation’s economy less the value of the goods and services used up in production. GDP is also equal to the sum of personal consumption expenditures, gross private domestic investment, net exports of goods and services, and government consumption expenditures and gross investment.

Gross output (GO) is the value of the goods and services produced by the nation’s economy. It is principally measured using industry sales or receipts, including sales to final users (GDP) and sales to other industries (intermediate inputs).

Current-dollar estimates are valued in the prices of the period when the transactions occurred—that is, at “market value.” They are also referred to as “nominal estimates” or as “current-price estimates.”

Chained-dollar estimates are calculated by taking the current-dollar level of a series in the base period and multiplying it by the change in the chained-type quantity index number for the series since the base period. Chained-dollar estimates correctly show growth rates for a series but are not additive in periods other than the base period.

MESA employment consists of all full-time, part-time, and temporary wage and salary jobs where the workers are engaged in the production of marine economy goods and services. Self-employed individuals are excluded from employment totals.

MESA compensation consists of the pay to employees (including wages and salaries and benefits, such as employer contributions to pension and health funds) in return for their marine economy-related work during a given year. Pay to the self-employed is excluded from compensation but included in value added.

MESA value added (also referred to as GDP) consists of the value of marine economy goods and services produced less the value of expenses incurred for their production. The activity of self-employed individuals is included in value added.

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Table 1. Real Marine Economy Value Added by Activity
 [Millions of chained (2014) dollars]

	2014	2015	2016	2017	2018	2019	2020	2021
1 Total marine economy	382,684	385,015	378,977	376,583	380,630	389,817	366,295	393,387
2 Living resources, marine	11,635	12,450	12,329	12,276	12,399	12,843	13,284	15,244
3 Commercial harvest, seafood markets, and processing	10,986	11,605	11,381	11,211	11,134	11,240	10,848	11,218
4 Commercial harvest and seafood markets	7,138	7,495	7,687	7,500	7,712	7,876	7,652	7,731
5 Seafood processing	3,848	4,107	3,723	3,732	3,477	3,436	3,279	3,528
6 Fish-based animal foods	59	80	87	57	61	59	63	64
7 Pharmaceuticals, marine-based	589	761	850	984	1,179	1,515	2,306	3,831
8 Construction, coastal and marine	3,161	3,160	3,685	3,863	3,680	4,288	4,355	3,855
9 Conservation	1,846	1,859	2,529	2,611	2,264	2,254	2,409	2,124
10 Dredging	142	140	189	160	194	432	406	438
11 Recreation facilities	1,174	1,160	965	1,092	1,222	1,600	1,538	1,294
12 Research and education, marine	6,084	6,458	6,553	6,646	6,606	6,945	7,341	6,894
13 Scientific research	3,671	3,933	4,126	4,243	4,481	4,774	5,165	5,024
14 National defense research and development (R&D)	110	114	106	102	104	105	100	110
15 Federal nondefense R&D	1,074	1,162	1,214	1,268	1,312	1,404	1,625	1,768
16 State and local R&D	1,362	1,538	1,559	1,633	1,681	1,711	1,547	1,528
17 Nonacademic R&D	1,125	1,123	1,245	1,241	1,380	1,542	1,836	1,580
18 Educational programs and courses	2,227	2,327	2,227	2,215	1,959	2,081	2,113	1,813
19 Vocational training	142	148	154	143	143	72	56	59
20 Laboratories	45	50	53	56	49	50	48	47
21 Transportation and warehousing, marine	24,835	23,002	20,794	20,047	22,016	22,058	21,534	22,233
22 Freight transportation	17,417	16,347	15,688	14,342	14,902	13,881	14,796	15,431
23 Passenger transportation	6,037	5,250	3,744	4,002	5,170	6,128	4,006	3,534
24 Warehousing and storage	1,381	1,420	1,648	1,836	1,986	2,168	2,378	2,739
25 Professional and technical services, marine	3,197	3,474	3,578	3,273	3,284	3,226	3,030	3,026
26 Minerals, offshore	80,819	80,132	73,930	69,386	67,023	72,913	74,746	68,493
27 Oil and gas	79,129	78,502	72,282	67,438	65,080	71,307	73,150	66,781
28 Sand and gravel	1,326	1,292	1,341	1,523	1,490	1,291	1,364	1,331
29 Support services	364	337	272	269	284	264	212	252
30 Utilities, coastal	7,631	8,816	9,851	9,931	8,867	8,203	8,910	7,371
31 Traditional power generation	7,631	8,816	9,851	9,931	8,867	8,203	8,910	7,371
32 Ship and boat building, nonrecreational	6,414	7,846	7,160	7,066	7,652	8,090	8,973	10,927
33 Ship building ¹	5,182	6,446	5,939	5,922	6,515	7,072	8,016	9,792
34 Barges and other nonpropelled ships	115	89	95	65	52	44	51	57
35 Military ships	4,751	6,041	5,526	5,634	6,221	6,821	7,763	9,506
36 Other ships	316	318	318	227	248	213	210	241
37 Boat building ²	1,232	1,402	1,225	1,152	1,150	1,049	1,014	1,211
38 Fishing boats	73	60	46	24	26	22	22	25
39 Tugboats and towboats	224	244	260	205	219	190	185	214
40 Outboard motorboats	90	130	89	224	255	208	172	190
41 Inboard motorboats	277	375	277	213	189	202	225	296
42 Other boats	568	594	552	490	466	428	411	483
43 Tourism and recreation, coastal and offshore	125,435	127,068	127,040	130,279	135,904	137,470	107,796	130,540
44 Guided tours	7,220	6,480	5,695	6,917	7,357	6,863	3,634	4,965
45 Water guided tours	4,347	3,833	3,198	4,167	4,536	4,381	2,398	3,008
46 Other scenic tours	2,873	2,646	2,498	2,749	2,820	2,482	1,237	1,946
47 Recreational fishing, offshore	1,426	1,587	2,110	2,495	2,600	2,456	2,621	2,962
48 Boating and paddling, offshore	22,710	22,597	21,723	22,632	23,296	23,712	22,102	24,194
49 Sailing	1,131	1,118	1,188	1,213	1,201	1,371	944	902
50 Motorboating	15,265	15,420	15,004	15,539	15,719	15,957	15,946	17,145
51 Canoeing	35	36	39	67	56	62	95	166
52 Kayaking	130	128	126	130	120	120	157	244
53 Other boating and paddling ³	6,150	5,895	5,354	5,673	6,202	6,193	4,863	5,666
54 Other water activities ⁴	1,625	1,818	1,792	1,821	1,875	2,262	2,456	2,693
55 Other coastal recreation	15,513	15,740	15,479	15,976	16,490	16,666	14,999	16,980
56 Maritime museums and cultural institutions	1,101	868	927	859	949	921	960	1,100
57 Beachgoing	132	132	130	130	126	139	125	155
58 Amusement parks	1,446	1,516	1,587	1,486	1,580	1,513	862	1,170
59 Hiking and camping	746	749	719	686	725	840	920	1,197
60 RVing	5,124	5,056	4,777	4,905	5,223	5,341	4,935	5,172
61 Photography	179	265	206	195	168	200	206	219
62 Other general expenses	6,783	7,160	7,128	7,747	7,714	7,720	7,150	8,076
63 Trips and travel, coastal	76,941	78,855	80,258	80,467	84,286	85,543	62,597	79,244
64 Eating and drinking places	10,316	10,684	11,008	11,295	11,404	11,738	4,974	10,060
65 Hotel and lodging places	51,432	52,559	51,939	52,180	53,360	54,138	49,800	54,834
66 Travel arrangement services	1,359	1,528	1,622	1,731	1,872	1,813	747	1,064
67 Transportation services	13,834	14,085	15,737	15,277	17,852	18,035	6,168	12,692
68 National defense and public administration	113,474	112,194	112,109	110,365	108,245	110,035	116,008	119,540
69 National defense and coast guard	107,073	106,074	105,910	103,804	101,593	103,331	108,843	112,203
70 Federal public administration	6,023	5,748	5,816	6,151	6,239	6,270	6,722	6,884
71 State and local public administration	378	372	383	406	406	428	435	445

1. Consists of government and commercial vessels built in shipyards. Vessels include, but are not limited to, naval surface combatants, cargo ships, barges, oil drilling platforms, passenger ships, tugboats, research vessels, submarines, and fishing vessels.

2. Consists of government and commercial vessels not built in shipyards. Vessels include, but are not limited to, commercial fishing boats, motorboats (inboard and outboard), inflatables, tour boats, sailboats, and underwater remotely operated vehicles. Activity associated with the manufacture of boats and other watercraft used for recreational purposes is included in tourism and recreation sector.

3. Consists of, but are not limited to, hovercraft, personal watercrafts, pontoon boats, life rafts and associated expenses such as repair services, insurance, fuel, etc.

4. Consists of swimming, snorkeling, scuba diving, surfing, and related water activities.

Note: Chained (2014) dollar series are calculated as the product of the chain-type quantity index and the 2014 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive.

Table 2. Marine Economy Value Added by Activity
 [Millions of current dollars]

	2014	2015	2016	2017	2018	2019	2020	2021
1 Total marine economy	382,684	366,398	359,378	369,487	389,773	403,466	363,217	432,397
2 Living resources, marine	11,635	12,247	12,649	12,954	13,851	14,947	15,415	18,434
3 Commercial harvest, seafood markets, and processing	10,986	11,370	11,662	11,843	12,479	13,095	12,501	13,651
4 Commercial harvest and seafood markets	7,138	7,076	7,616	7,579	8,166	8,357	7,838	8,627
5 Seafood processing	3,848	4,294	4,046	4,264	4,314	4,738	4,664	5,024
6 Fish-based animal foods	59	61	66	46	50	49	54	56
7 Pharmaceuticals, marine-based	589	815	921	1,065	1,321	1,803	2,859	4,727
8 Construction, coastal and marine	3,161	3,283	3,866	4,100	4,008	4,906	5,110	4,636
9 Conservation	1,846	1,945	2,644	2,778	2,459	2,583	2,820	2,495
10 Dredging	142	147	198	171	211	498	478	515
11 Recreation facilities	1,174	1,192	1,024	1,152	1,338	1,826	1,812	1,626
12 Research and education, marine	6,084	6,502	6,630	6,871	7,047	7,546	8,238	7,861
13 Scientific research	3,671	3,900	4,070	4,272	4,682	5,064	5,669	5,583
14 National defense research and development (R&D)	110	112	106	102	108	110	107	117
15 Federal nondefense R&D	1,074	1,184	1,263	1,339	1,443	1,580	1,854	1,984
16 State and local R&D	1,362	1,450	1,456	1,547	1,641	1,667	1,528	1,561
17 Nonacademic R&D	1,125	1,153	1,245	1,284	1,491	1,706	2,180	1,922
18 Educational programs and courses	2,227	2,397	2,341	2,381	2,150	2,344	2,449	2,155
19 Vocational training	142	153	164	159	162	83	67	70
20 Laboratories	45	51	55	60	53	55	53	53
21 Transportation and warehousing, marine	24,835	25,444	24,027	24,243	27,232	27,610	23,683	27,845
22 Freight transportation	17,417	17,610	16,427	16,451	18,408	18,259	17,947	21,184
23 Passenger transportation	6,037	6,383	5,907	5,849	6,632	6,993	3,171	3,528
24 Warehousing and storage	1,381	1,451	1,693	1,943	2,192	2,357	2,566	3,133
25 Professional and technical services, marine	3,197	3,537	3,648	3,311	3,313	3,368	3,426	3,559
26 Minerals, offshore	80,819	53,806	44,785	48,225	52,943	53,011	38,847	56,512
27 Oil and gas	79,129	52,292	43,329	46,452	51,115	51,424	37,260	54,806
28 Sand and gravel	1,326	1,163	1,164	1,477	1,508	1,279	1,339	1,414
29 Support services	364	352	292	296	320	308	248	292
30 Utilities, coastal	7,631	8,221	8,086	8,092	8,334	8,546	8,461	10,062
31 Traditional power generation	7,631	8,221	8,086	8,092	8,334	8,546	8,461	10,062
32 Ship and boat building, nonrecreational	6,414	7,962	7,260	6,981	7,343	7,806	8,765	10,150
33 Ship building ¹	5,182	6,508	5,954	5,795	6,186	6,683	7,627	8,783
34 Barges and other nonpropelled ships	115	89	93	62	48	46	55	63
35 Military ships	4,751	6,080	5,521	5,500	5,906	6,434	7,361	8,476
36 Other ships	316	338	340	233	233	203	212	244
37 Boat building ²	1,232	1,455	1,306	1,187	1,157	1,123	1,138	1,366
38 Fishing boats	73	64	49	24	24	21	22	25
39 Tugboats and towboats	224	259	278	210	207	182	188	219
40 Outboard motorboats	90	132	93	226	265	240	202	232
41 Inboard motorboats	277	380	298	227	207	239	275	364
42 Other boats	568	621	588	499	453	440	450	527
43 Tourism and recreation, coastal and offshore	125,435	131,145	133,185	139,422	149,185	154,632	120,777	153,030
44 Guided tours	7,220	6,841	6,250	7,692	8,384	8,162	4,632	6,239
45 Water guided tours	4,347	4,045	3,512	4,641	5,158	5,208	3,010	3,715
46 Other scenic tours	2,873	2,796	2,738	3,051	3,226	2,954	1,623	2,524
47 Recreational fishing, offshore	1,426	1,600	2,131	2,493	2,562	2,599	2,750	3,222
48 Boating and paddling, offshore	22,710	23,166	22,012	23,442	24,980	25,581	23,857	28,443
49 Sailing	1,131	1,161	1,266	1,282	1,316	1,568	1,157	1,133
50 Motorboating	15,265	15,811	15,370	16,187	16,966	17,595	17,745	20,491
51 Canoeing	35	37	41	71	60	70	110	207
52 Kayaking	130	132	133	141	136	144	190	318
53 Other boating and paddling ³	6,150	6,025	5,201	5,760	6,501	6,205	4,655	6,293
54 Other water activities ⁴	1,625	1,858	1,857	1,871	1,940	2,407	2,724	3,324
55 Other coastal recreation	15,513	16,028	15,769	16,423	17,028	17,448	15,335	18,395
56 Maritime museums and cultural institutions	1,101	902	990	950	1,032	1,015	1,132	1,288
57 Beachgoing	132	132	133	133	127	144	133	179
58 Amusement parks	1,446	1,612	1,789	1,742	1,910	1,929	1,206	1,690
59 Hiking and camping	746	795	735	705	756	892	971	1,336
60 RVing	5,124	5,209	4,889	5,175	5,683	5,789	5,081	5,810
61 Photography	179	252	179	175	151	174	188	216
62 Other general expenses	6,783	7,126	7,053	7,544	7,369	7,505	6,624	7,877
63 Trips and travel, coastal	76,941	81,652	85,167	87,501	94,291	98,435	71,479	93,407
64 Eating and drinking places	10,316	11,245	12,065	12,702	13,217	14,047	6,327	13,308
65 Hotel and lodging places	51,432	54,356	55,619	57,559	60,930	63,974	58,615	66,243
66 Travel arrangement services	1,359	1,527	1,623	1,712	1,834	1,821	700	970
67 Transportation services	13,834	14,523	15,861	15,529	18,311	18,592	5,837	12,887
68 National defense and public administration	113,474	114,252	115,242	115,287	116,517	121,094	130,494	140,308
69 National defense and coast guard	107,073	108,016	108,847	108,355	109,234	113,602	122,357	131,668
70 Federal public administration	6,023	5,849	5,999	6,514	6,856	7,047	7,638	8,106
71 State and local public administration	378	386	395	418	427	445	499	534

1. Consists of government and commercial vessels built in shipyards. Vessels include, but are not limited to, naval surface combatants, cargo ships, barges, oil drilling platforms, passenger ships, tugboats, research vessels, submarines, and fishing vessels.

2. Consists of government and commercial vessels not built in shipyards. Vessels include, but are not limited to, commercial fishing boats, motorboats (inboard and outboard), inflatables, tour boats, sailboats, and underwater remotely operated vehicles. Activity associated with the manufacture of boats and other watercraft used for recreational purposes is included in tourism and recreation sector.

3. Consists of, but are not limited to, hovercraft, personal watercrafts, pontoon boats, life rafts and associated expenses such as repair services, insurance, fuel, etc.

4. Consists of swimming, snorkeling, scuba diving, surfing, and related water activities.

Table 3. Marine Economy Value Added by Activity as a Percentage of Gross Domestic Product

	2014	2015	2016	2017	2018	2019	2020	2021
1 Total marine economy	2.2	2.0	1.9	1.9	1.9	1.9	1.7	1.9
2 Living resources, marine	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3 Commercial harvest, seafood markets, and processing	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4 Commercial harvest and seafood markets	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Seafood processing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Fish-based animal foods	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 Pharmaceuticals, marine-based	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 Construction, coastal and marine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 Conservation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10 Dredging	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 Recreation facilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Research and education, marine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 Scientific research	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 National defense research and development (R&D)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Federal nondefense R&D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 State and local R&D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17 Nonacademic R&D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 Educational programs and courses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Vocational training	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Laboratories	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 Transportation and warehousing, marine	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22 Freight transportation	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
23 Passenger transportation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Warehousing and storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 Professional and technical services, marine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Minerals, offshore	0.5	0.3	0.2	0.2	0.3	0.2	0.2	0.2
27 Oil and gas	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2
28 Sand and gravel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 Support services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Utilities, coastal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Traditional power generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32 Ship and boat building, nonrecreational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33 Ship building ¹	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Barges and other nonpropelled ships	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Military ships	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Other ships	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37 Boat building ²	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Fishing boats	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39 Tugboats and towboats	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40 Outboard motorboats	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41 Inboard motorboats	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42 Other boats	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43 Tourism and recreation, coastal and offshore	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7
44 Guided tours	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Water guided tours	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Other scenic tours	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Recreational fishing, offshore	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48 Boating and paddling, offshore	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
49 Sailing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Motorboating	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
51 Canoeing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52 Kayaking	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53 Other boating and paddling ³	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54 Other water activities ⁴	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55 Other coastal recreation	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
56 Maritime museums and cultural institutions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Beachgoing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58 Amusement parks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59 Hiking and camping	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 RVing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61 Photography	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62 Other general expenses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63 Trips and travel, coastal	0.4	0.4	0.5	0.4	0.5	0.5	0.3	0.4
64 Eating and drinking places	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
65 Hotel and lodging places	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
66 Travel arrangement services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67 Transportation services	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
68 National defense and public administration	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
69 National defense and coast guard	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6
70 Federal public administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71 State and local public administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1. Consists of government and commercial vessels built in shipyards. Vessels include, but are not limited to, naval surface combatants, cargo ships, barges, oil drilling platforms, passenger ships, tugboats, research vessels, submarines, and fishing vessels.

2. Consists of government and commercial vessels not built in shipyards. Vessels include, but are not limited to, commercial fishing boats, motorboats (inboard and outboard), inflatables, tour boats, sailboats, and underwater remote operated vehicles. Activity associated with the manufacture of boats and other water craft used for recreational purposes is included in tourism and recreation sector.

3. Consists of government and commercial vessels not built in shipyards. Vessels include, but are not limited to, commercial fishing boats, motorboats (inboard and outboard),

4. Consists of swimming, snorkeling, scuba diving, surfing, and related water activities.

Table 4. Marine Economy Value Added by Activity as a Percentage of Total Marine Economy Value Added

	2014	2015	2016	2017	2018	2019	2020	2021
1 Total marine economy	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 Living resources, marine	3.0	3.3	3.5	3.5	3.6	3.7	4.2	4.3
3 Commercial harvest, seafood markets, and processing	2.9	3.1	3.2	3.2	3.2	3.2	3.4	3.2
4 Commercial harvest and seafood markets	1.9	1.9	2.1	2.1	2.1	2.1	2.2	2.0
5 Seafood processing	1.0	1.2	1.1	1.2	1.1	1.2	1.3	1.2
6 Fish-based animal foods	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 Pharmaceuticals, marine-based	0.2	0.2	0.3	0.3	0.3	0.4	0.8	1.1
8 Construction, coastal and marine	0.8	0.9	1.1	1.1	1.0	1.2	1.4	1.1
9 Conservation	0.5	0.5	0.7	0.8	0.6	0.6	0.8	0.6
10 Dredging	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1
11 Recreation facilities	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.4
12 Research and education, marine	1.6	1.8	1.8	1.9	1.8	1.9	2.3	1.8
13 Scientific research	1.0	1.1	1.1	1.2	1.2	1.3	1.6	1.3
14 National defense research and development (R&D)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Federal nondefense R&D	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5
16 State and local R&D	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
17 Nonacademic R&D	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.4
18 Educational programs and courses	0.6	0.7	0.7	0.6	0.6	0.6	0.7	0.5
19 Vocational training	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Laboratories	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 Transportation and warehousing, marine	6.5	6.9	6.7	6.6	7.0	6.8	6.5	6.4
22 Freight transportation	4.6	4.8	4.6	4.5	4.7	4.5	4.9	4.9
23 Passenger transportation	1.6	1.7	1.6	1.6	1.7	1.7	0.9	0.8
24 Warehousing and storage	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7
25 Professional and technical services, marine	0.8	1.0	1.0	0.9	0.8	0.8	0.9	0.8
26 Minerals, offshore	21.1	14.7	12.5	13.1	13.6	13.1	10.7	13.1
27 Oil and gas	20.7	14.3	12.1	12.6	13.1	12.7	10.3	12.7
28 Sand and gravel	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.3
29 Support services	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
30 Utilities, coastal	2.0	2.2	2.3	2.2	2.1	2.1	2.3	2.3
31 Traditional power generation	2.0	2.2	2.3	2.2	2.1	2.1	2.3	2.3
32 Ship and boat building, nonrecreational	1.7	2.2	2.0	1.9	1.9	1.9	2.4	2.3
33 Ship building ¹	1.4	1.8	1.7	1.6	1.6	1.7	2.1	2.0
34 Barges and other nonpropelled ships	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Military ships	1.2	1.7	1.5	1.5	1.5	1.6	2.0	2.0
36 Other ships	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
37 Boat building ²	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3
38 Fishing boats	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39 Tugboats and towboats	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
40 Outboard motorboats	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
41 Inboard motorboats	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
42 Other boats	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
43 Tourism and recreation, coastal and offshore	32.8	35.8	37.1	37.7	38.3	38.3	33.3	35.4
44 Guided tours	1.9	1.9	1.7	2.1	2.2	2.0	1.3	1.4
45 Water guided tours	1.1	1.1	1.0	1.3	1.3	1.3	0.8	0.9
46 Other scenic tours	0.8	0.8	0.8	0.8	0.8	0.7	0.4	0.6
47 Recreational fishing, offshore	0.4	0.4	0.6	0.7	0.7	0.6	0.8	0.7
48 Boating and paddling, offshore	5.9	6.3	6.1	6.3	6.4	6.3	6.6	6.6
49 Sailing	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3
50 Motorboating	4.0	4.3	4.3	4.4	4.4	4.4	4.9	4.7
51 Canoeing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52 Kayaking	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
53 Other boating and paddling ³	1.6	1.6	1.4	1.6	1.7	1.5	1.3	1.5
54 Other water activities ⁴	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.8
55 Other coastal recreation	4.1	4.4	4.4	4.4	4.4	4.3	4.2	4.3
56 Maritime museums and cultural institutions	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3
57 Beachgoing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58 Amusement parks	0.4	0.4	0.5	0.5	0.5	0.5	0.3	0.4
59 Hiking and camping	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
60 RVing	1.3	1.4	1.4	1.4	1.5	1.4	1.4	1.3
61 Photography	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0
62 Other general expenses	1.8	1.9	2.0	2.0	1.9	1.9	1.8	1.8
63 Trips and travel, coastal	20.1	22.3	23.7	23.7	24.2	24.4	19.7	21.6
64 Eating and drinking places	2.7	3.1	3.4	3.4	3.4	3.5	1.7	3.1
65 Hotel and lodging places	13.4	14.8	15.5	15.6	15.6	15.9	16.1	15.3
66 Travel arrangement services	0.4	0.4	0.5	0.5	0.5	0.5	0.2	0.2
67 Transportation services	3.6	4.0	4.4	4.2	4.7	4.6	1.6	3.0
68 National defense and public administration	29.7	31.2	32.1	31.2	29.9	30.0	35.9	32.4
69 National defense and coast guard	28.0	29.5	30.3	29.3	28.0	28.2	33.7	30.5
70 Federal public administration	1.6	1.6	1.7	1.8	1.8	1.7	2.1	1.9
71 State and local public administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

1. Consists of government and commercial vessels built in shipyards. Vessels include, but are not limited to, naval surface combatants, cargo ships, barges, oil drilling platforms, passenger ships, tugboats, research vessels, submarines, and fishing vessels.

2. Consists of government and commercial vessels not built in shipyards. Vessels include, but are not limited to, commercial fishing boats, motorboats (inboard and outboard), inflatables, tour boats, sailboats, and underwater remote operated vehicles. Activity associated with the manufacture of boats and other water craft used for recreational purposes is included in tourism and recreation sector.

3. Consists of government and commercial vessels not built in shipyards. Vessels include, but are not limited to, commercial fishing boats, motorboats (inboard and outboard),

4. Consists of swimming, snorkeling, scuba diving, surfing, and related water activities.

Table 5. Real Marine Economy Value Added by Industry
 [Millions of chained (2014) dollars]

	2014	2015	2016	2017	2018	2019	2020	2021
1 All industries	382,684	385,015	378,977	376,583	380,630	389,817	366,295	393,387
2 Private industries	261,817	265,304	258,516	257,966	264,571	271,931	239,985	264,282
3 Agriculture, forestry, fishing, and hunting	4,797	5,050	4,914	4,731	4,892	5,077	4,857	4,434
4 Farms	441	446	483	488	483	461	449	458
5 Forestry, fishing, and related activities	4,356	4,605	4,432	4,246	4,409	4,611	4,403	3,978
6 Mining	70,466	70,532	66,484	61,191	58,100	65,351	68,298	60,440
7 Oil and gas extraction	53,033	58,712	62,291	56,378	50,925	57,272	63,955	52,942
8 Mining, except oil and gas	676	647	759	808	797	688	894	955
9 Support activities for mining	16,756	12,782	8,471	8,206	9,671	11,122	8,817	10,360
10 Utilities	5,833	6,817	7,535	7,691	6,865	6,453	6,824	5,775
11 Construction	2,932	2,880	3,321	3,443	3,321	3,920	3,968	3,537
12 Manufacturing	24,559	24,910	21,557	23,459	26,150	26,334	24,389	29,489
13 Durable goods	12,681	13,087	11,198	11,803	12,734	13,270	13,961	15,950
14 Wood products	4	4	4	3	4	3	4	4
15 Nonmetallic mineral products	32	35	37	34	31	32	33	33
16 Primary metals	2	1	1	0	0	0	0	0
17 Fabricated metal products	130	113	68	58	59	60	73	97
18 Machinery	3,758	3,044	2,015	2,350	2,601	2,616	2,439	2,306
19 Computer and electronic products	124	189	148	122	117	114	114	129
20 Electrical equipment, appliances, and components	207	182	146	259	294	235	186	197
21 Motor vehicles, bodies and trailers, and parts	108	110	106	47	34	41	71	56
22 Other transportation equipment	7,884	8,994	8,239	8,401	9,019	9,535	10,295	12,179
23 Furniture and related products	13	11	8	8	7	12	9	19
24 Miscellaneous manufacturing	420	414	441	533	578	636	754	943
25 Nondurable goods	11,877	11,818	10,369	11,738	13,541	13,153	10,029	13,306
26 Food and beverage and tobacco products	1,956	2,146	1,840	1,636	1,391	1,345	1,158	1,345
27 Textile mills and textile product mills	85	80	82	66	85	135	93	160
28 Apparel and leather and allied products	341	325	355	306	282	300	368	493
29 Paper products	0	0	0	2	0	0	0	1
30 Printing and related support activities	1	1	1	0	0	0	1	4
31 Petroleum and coal products	8,930	8,707	7,497	9,344	11,719	11,032	6,870	9,499
32 Chemical products	518	505	510	571	630	750	942	1,284
33 Plastics and rubber products	46	45	38	38	31	46	70	90
34 Wholesale trade	14,810	14,389	13,131	13,190	13,726	13,529	12,190	14,829
35 Retail trade	18,070	18,435	18,709	19,800	20,416	21,092	19,474	23,801
36 Motor vehicle and parts dealers	2,408	2,762	2,941	3,222	3,110	3,125	3,928	4,656
37 Food and beverage stores	2,095	2,061	2,076	2,199	2,175	2,237	2,142	2,527
38 General merchandise stores	2,697	2,899	2,871	3,196	3,201	3,186	3,473	3,683
39 Other retail	10,871	10,734	10,850	11,244	11,960	12,554	10,181	13,083
40 Transportation and warehousing	35,206	34,350	33,476	32,355	35,394	34,882	28,094	30,718
41 Air transportation	4,391	4,624	6,341	5,535	6,547	6,468	2,013	4,321
42 Rail transportation	580	517	337	361	414	373	223	250
43 Water transportation	13,460	11,485	9,571	8,917	9,553	9,441	8,981	7,441
44 Truck transportation	2,983	3,045	3,033	3,146	3,120	3,124	2,817	3,056
45 Transit and ground passenger transportation	1,015	989	1,153	1,232	1,286	1,505	909	1,033
46 Pipeline transportation	2,239	2,825	2,875	2,970	3,184	2,629	2,412	2,444
47 Other transportation and support activities	9,618	9,976	9,248	9,171	10,241	10,137	9,050	10,579
48 Warehousing and storage	920	965	1,186	1,331	1,450	1,603	1,789	2,054
49 Information	395	417	456	456	490	529	542	613
50 Publishing industries, except internet (includes software)	102	110	127	127	142	133	106	103
51 Motion picture and sound recording industries	14	15	19	16	17	19	19	57
52 Broadcasting and telecommunications	152	152	133	136	127	135	152	147
53 Data processing, internet publishing, and other information services	127	141	179	179	209	247	267	311
54 Finance, insurance, real estate, rental, and leasing	45,447	46,388	46,705	46,437	47,957	48,864	48,113	48,625
55 Finance and insurance	4,236	4,770	4,876	4,466	4,493	4,648	4,491	4,637
56 Federal Reserve banks, credit intermediation, and related activities	124	131	131	131	115	140	145	183
57 Securities, commodity contracts, and investments	0	0	0	0	0	0	0	0
58 Insurance carriers and related activities	4,111	4,639	4,745	4,334	4,380	4,506	4,343	4,447
59 Funds, trusts, and other financial vehicles	0	0	0	0	0	0	0	0
60 Real estate and rental and leasing	41,211	41,624	41,837	41,954	43,434	44,194	43,591	43,968
61 Real estate	40,193	40,201	40,070	40,111	41,372	41,756	41,753	42,141
62 Housing	40,191	40,199	40,068	40,108	41,370	41,754	41,751	42,137
63 Other real estate	2	2	2	2	2	2	2	3
64 Rental and leasing services and lessors of intangible assets	1,018	1,457	1,896	2,003	2,298	2,851	1,886	1,861
65 Professional and business services	4,622	4,658	4,759	5,171	5,539	5,393	2,718	3,711
66 Professional, scientific, and technical services	1,664	1,637	1,617	1,632	1,762	1,867	2,062	1,757
67 Legal services	432	437	448	446	447	444	407	412
68 Computer systems design and related services	33	40	27	57	44	45	35	57
69 Miscellaneous professional, scientific, and technical services	1,200	1,161	1,141	1,130	1,272	1,381	1,625	1,291
70 Management of companies and enterprises	32	31	50	41	42	50	51	70
71 Administrative and waste management services	2,926	2,990	3,091	3,494	3,731	3,472	551	1,959
72 Administrative and support services	2,923	2,985	3,086	3,489	3,725	3,465	547	1,961
73 Waste management and remediation services	3	6	7	6	6	11	15	5
74 Educational services, health care, and social assistance	1,961	2,048	2,039	2,036	1,885	1,893	1,826	1,679
75 Educational services	1,858	1,934	1,909	1,901	1,747	1,752	1,712	1,514
76 Health care and social assistance	102	114	131	136	138	142	114	166
77 Ambulatory health care services	28	33	45	49	54	57	63	84
78 Hospitals	62	68	73	74	72	73	44	73
79 Nursing and residential care facilities	8	8	8	8	8	8	4	7
80 Social assistance	4	5	5	5	5	6	7	7
81 Arts, entertainment, recreation, accommodation, and food services	29,986	31,239	31,214	31,822	31,986	32,618	19,204	30,004
82 Arts, entertainment, and recreation	7,835	7,591	7,851	7,977	8,060	7,937	4,884	5,982
83 Performing arts, spectator sports, museums, and related activities	1,081	866	917	862	943	919	875	1,099
84 Amusements, gambling, and recreation industries	6,755	6,723	6,932	7,114	7,115	7,016	4,030	4,912
85 Accommodation and food services	22,151	23,649	23,364	23,845	23,928	24,676	14,306	24,206
86 Accommodation	12,764	13,927	13,351	13,550	13,508	13,962	9,606	14,881

Table 5. Real Marine Economy Value Added by Industry

[Millions of chained (2014) dollars]

	2014	2015	2016	2017	2018	2019	2020	2021	
87	Food services and drinking places	9,386	9,724	10,009	10,288	10,412	10,706	4,875	9,361
88	Other services, except government	2,734	2,757	2,799	2,738	2,483	2,524	2,731	2,842
89	Government	120,867	119,770	120,237	118,504	116,257	118,169	124,465	128,020
90	Federal	114,243	113,060	113,025	111,230	109,090	111,009	117,205	120,882
91	General government	114,192	113,011	112,976	111,177	109,036	110,956	117,158	120,832
92	National defense	104,898	104,001	103,789	101,566	99,316	101,095	106,701	110,142
93	Nondefense	9,294	9,010	9,187	9,605	9,709	9,850	10,445	10,678
94	Government enterprises	51	49	48	54	54	53	46	50
95	State and local	6,624	6,705	7,186	7,245	7,137	7,135	7,247	7,143
96	General government	3,392	3,625	3,719	3,877	3,781	3,877	3,703	3,545
97	Government enterprises	3,232	3,088	3,454	3,367	3,352	3,270	3,513	3,548

Note. Chained (2014) dollar series are calculated as the product of the chain-type quantity index and the 2014 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive.

Table 6. Marine Economy Value Added by Industry
 [Millions of current dollars]

	2014	2015	2016	2017	2018	2019	2020	2021
1 All industries	382,684	366,398	359,378	369,487	389,773	403,466	383,217	432,397
2 Private industries	261,817	244,058	235,557	245,626	264,394	272,929	222,939	281,624
3 Agriculture, forestry, fishing, and hunting	4,797	4,496	4,687	4,675	5,092	5,168	4,615	4,716
4 Farms	441	425	416	447	437	417	389	438
5 Forestry, fishing, and related activities	4,356	4,071	4,271	4,228	4,656	4,751	4,226	4,278
6 Mining	70,466	43,747	35,931	39,107	43,554	43,875	29,824	46,523
7 Oil and gas extraction	53,033	30,416	27,580	30,953	35,308	34,733	23,336	40,051
8 Mining, except oil and gas	676	504	531	700	724	572	672	710
9 Support activities for mining	16,756	12,827	7,820	7,453	7,522	8,570	5,816	5,762
10 Utilities	5,833	6,118	5,952	6,119	6,241	6,379	6,088	7,557
11 Construction	2,932	3,003	3,503	3,668	3,624	4,502	4,677	4,257
12 Manufacturing	24,559	25,040	20,334	22,681	26,034	25,892	22,073	28,576
13 Durable goods	12,681	13,542	11,646	12,073	12,842	13,797	14,798	16,361
14 Wood products	4	4	4	3	4	3	5	6
15 Nonmetallic mineral products	32	36	40	38	36	37	40	42
16 Primary metals	2	1	1	0	0	0	0	1
17 Fabricated metal products	130	121	76	63	65	70	88	110
18 Machinery	3,758	3,177	2,107	2,416	2,647	2,725	2,588	2,323
19 Computer and electronic products	124	180	129	106	104	106	110	127
20 Electrical equipment, appliances, and components	207	191	155	272	306	249	203	208
21 Motor vehicles, bodies and trailers, and parts	108	115	114	51	37	37	64	55
22 Other transportation equipment	7,884	9,271	8,552	8,579	9,068	9,863	10,897	12,480
23 Furniture and related products	13	13	10	9	8	16	14	24
24 Miscellaneous manufacturing	420	432	457	534	567	690	789	985
25 Nondurable goods	11,877	11,498	8,688	10,609	13,192	12,095	7,275	12,215
26 Food and beverage and tobacco products	1,956	2,237	1,975	1,973	1,976	2,266	2,013	2,299
27 Textile mills and textile product mills	85	83	87	69	87	140	99	164
28 Apparel and leather and allied products	341	334	367	322	302	321	387	489
29 Paper products	0	0	0	2	0	0	0	1
30 Printing and related support activities	1	1	1	0	0	1	1	4
31 Petroleum and coal products	8,930	8,221	5,571	7,449	9,947	8,274	3,340	7,291
32 Chemical products	518	574	645	753	847	1,041	1,352	1,868
33 Plastics and rubber products	46	47	42	41	33	52	83	98
34 Wholesale trade	14,810	14,986	14,146	14,525	15,091	15,390	13,645	17,493
35 Retail trade	18,070	19,017	19,792	20,899	21,534	22,728	22,787	28,958
36 Motor vehicle and parts dealers	2,408	2,656	2,830	2,986	2,961	3,132	3,925	4,766
37 Food and beverage stores	2,095	2,213	2,342	2,488	2,539	2,667	2,711	3,168
38 General merchandise stores	2,697	2,820	2,813	3,125	3,072	3,172	3,374	3,814
39 Other retail	10,871	11,329	11,807	12,299	12,962	13,757	12,777	17,211
40 Transportation and warehousing	35,206	37,183	37,514	37,211	41,523	42,110	30,603	37,215
41 Air transportation	4,391	4,876	6,743	5,810	6,853	7,222	1,930	3,583
42 Rail transportation	580	515	330	361	427	409	252	279
43 Water transportation	13,460	13,375	11,697	11,607	12,828	12,828	8,792	10,218
44 Truck transportation	2,983	3,235	3,272	3,398	3,591	3,721	3,384	4,151
45 Transit and ground passenger transportation	1,015	1,041	1,261	1,344	1,365	1,590	934	1,090
46 Pipeline transportation	2,239	2,893	3,073	3,177	3,420	3,020	2,914	3,113
47 Other transportation and support activities	9,618	10,261	9,921	10,107	11,431	11,577	10,471	12,435
48 Warehousing and storage	920	987	1,218	1,408	1,608	1,743	1,925	2,344
49 Information	395	420	462	472	511	568	616	718
50 Publishing industries, except internet (includes software)	102	110	126	126	140	133	117	115
51 Motion picture and sound recording industries	14	15	19	17	19	21	22	68
52 Broadcasting and telecommunications	152	153	143	153	147	165	195	193
53 Data processing, internet publishing, and other information services	127	142	175	175	206	249	282	342
54 Finance, insurance, real estate, rental, and leasing	45,447	47,590	49,234	50,321	53,310	56,093	56,867	59,065
55 Finance and insurance	4,236	4,785	4,924	4,458	4,456	4,715	4,799	4,977
56 Federal Reserve banks, credit intermediation, and related activities	124	133	138	141	136	167	172	213
57 Securities, commodity contracts, and investments	0	0	0	0	0	0	0	0
58 Insurance carriers and related activities	4,111	4,651	4,786	4,318	4,319	4,548	4,626	4,765
59 Funds, trusts, and other financial vehicles	0	0	0	0	0	0	0	0
60 Real estate and rental and leasing	41,211	42,805	44,309	45,863	48,855	51,377	52,068	54,087
61 Real estate	40,193	41,527	42,841	44,332	47,077	49,210	50,737	52,287
62 Housing	40,191	41,524	42,838	44,330	47,075	49,207	50,735	52,284
63 Other real estate	2	2	3	3	3	3	3	4
64 Rental and leasing services and lessors of intangible assets	1,018	1,278	1,468	1,530	1,777	2,168	1,331	1,800
65 Professional and business services	4,622	4,818	5,003	5,595	6,138	6,175	3,199	4,400
66 Professional, scientific, and technical services	1,664	1,701	1,673	1,749	1,960	2,142	2,522	2,207
67 Legal services	432	453	477	493	509	526	511	542
68 Computer systems design and related services	33	41	27	59	47	48	40	67
69 Miscellaneous professional, scientific, and technical services	1,200	1,207	1,169	1,197	1,404	1,568	1,971	1,597
70 Management of companies and enterprises	32	32	50	42	45	55	59	84
71 Administrative and waste management services	2,926	3,085	3,280	3,804	4,132	3,978	618	2,110
72 Administrative and support services	2,923	3,082	3,277	3,801	4,129	3,975	615	2,106
73 Waste management and remediation services	3	3	3	3	3	3	3	4
74 Educational services, health care, and social assistance	1,961	2,098	2,136	2,193	2,075	2,135	2,117	2,014
75 Educational services	1,858	1,982	2,001	2,050	1,927	1,979	1,988	1,819
76 Health care and social assistance	102	116	135	143	147	155	129	195
77 Ambulatory health care services	28	33	45	49	52	57	64	87
78 Hospitals	62	70	77	81	81	83	53	91
79 Nursing and residential care facilities	8	8	9	9	9	9	5	9
80 Social assistance	4	4	4	5	5	6	7	8
81 Arts, entertainment, recreation, accommodation, and food services	29,986	32,686	33,875	35,093	36,742	38,794	22,388	36,387
82 Arts, entertainment, and recreation	7,835	7,962	8,482	8,628	9,029	9,285	6,303	7,799
83 Performing arts, spectator sports, museums, and related activities	1,081	899	981	955	1,037	1,025	1,038	1,299
84 Amusements, gambling, and recreation industries	6,755	7,063	7,501	7,673	7,993	8,260	5,264	6,500
85 Accommodation and food services	22,151	24,723	25,393	26,465	27,712	29,509	16,085	28,589
86 Accommodation	12,764	14,476	14,394	14,872	15,617	16,657	9,862	16,152

Table 6. Marine Economy Value Added by Industry
 [Millions of current dollars]

	2014	2015	2016	2017	2018	2019	2020	2021	
87	Food services and drinking places	9,386	10,247	10,999	11,593	12,096	12,853	6,223	12,436
88	Other services, except government	2,734	2,855	2,988	3,066	2,923	3,122	3,439	3,745
89	Government	120,867	122,341	123,820	123,861	125,380	130,537	140,278	150,773
90	Federal	114,243	115,122	116,190	116,208	117,465	122,223	131,847	141,766
91	General government	114,192	115,072	116,140	116,150	117,408	122,166	131,797	141,706
92	National defense	104,898	105,902	106,655	105,983	106,739	111,093	119,921	129,229
93	Nondefense	9,294	9,171	9,485	10,168	10,669	11,073	11,876	12,478
94	Government enterprises	51	49	50	58	57	56	50	60
95	State and local	6,624	7,219	7,630	7,653	7,914	8,314	8,430	9,007
96	General government	3,392	3,614	3,709	3,907	3,906	4,050	3,965	3,911
97	Government enterprises	3,232	3,605	3,921	3,747	4,008	4,264	4,465	5,096

Table 7. Real Marine Economy Gross Output by Activity
 [Millions of chained (2014) dollars]

	2014	2015	2016	2017	2018	2019	2020	2021
1 Total marine economy	653,834	654,398	639,064	644,921	658,854	682,671	608,118	671,996
2 Living resources, marine	22,719	24,412	24,817	25,724	25,457	26,433	27,337	31,016
3 Commercial harvest, seafood markets, and processing	21,549	22,893	23,156	23,925	23,270	23,605	22,920	23,627
4 Commercial harvest and seafood markets	10,849	11,229	11,778	11,994	11,841	11,795	11,216	11,990
5 Seafood processing	10,700	11,656	11,389	11,933	11,441	11,809	11,683	11,651
6 Fish-based animal foods	175	190	197	112	120	117	128	124
7 Pharmaceuticals, marine-based	995	1,319	1,447	1,648	2,017	2,639	4,121	6,941
8 Construction, coastal and marine	5,267	5,630	6,514	6,446	5,947	7,134	7,105	6,044
9 Conservation	3,281	3,628	4,628	4,519	3,801	3,962	4,046	3,353
10 Dredging	260	284	358	286	335	790	711	717
11 Recreation facilities	1,726	1,718	1,531	1,644	1,813	2,380	2,347	1,975
12 Research and education, marine	8,426	8,812	9,142	9,416	9,395	10,101	11,171	10,260
13 Scientific research	5,297	5,462	5,921	6,204	6,558	7,262	8,276	7,755
14 National defense research and development (R&D)	145	146	141	135	136	140	148	158
15 Federal nondefense R&D	1,417	1,505	1,634	1,703	1,744	1,906	2,469	2,605
16 State and local R&D	1,798	1,952	2,040	2,142	2,181	2,252	2,266	2,282
17 Nonacademic R&D	1,936	1,862	2,105	2,223	2,491	2,944	3,338	2,689
18 Educational programs and courses	2,815	3,005	2,871	2,868	2,520	2,674	2,762	2,373
19 Vocational training	266	289	298	291	283	139	120	123
20 Laboratories	49	55	59	63	55	56	54	53
21 Transportation and warehousing, marine	59,966	59,707	58,898	61,599	63,890	63,865	48,901	57,114
22 Freight transportation	38,995	38,646	37,761	38,188	38,014	35,870	34,755	41,683
23 Passenger transportation	18,422	18,510	18,360	20,235	22,597	24,625	9,814	10,362
24 Warehousing and storage	2,548	2,550	2,764	3,084	3,163	3,347	3,510	3,978
25 Professional and technical services, marine	5,957	6,286	6,570	6,536	6,402	6,445	6,345	6,597
26 Minerals, offshore	134,296	123,711	98,483	96,430	101,425	111,428	99,127	96,615
27 Oil and gas	131,176	120,555	95,401	93,015	97,996	108,343	96,257	93,732
28 Sand and gravel	2,511	2,543	2,464	2,734	2,738	2,518	2,363	2,277
29 Support services	610	581	486	476	501	474	393	465
30 Utilities, coastal	13,752	16,080	16,521	16,080	15,530	14,837	14,888	13,478
31 Traditional power generation	13,752	16,080	16,521	16,080	15,530	14,837	14,888	13,478
32 Ship and boat building, nonrecreational	13,475	16,594	14,834	15,925	16,258	16,878	17,261	19,884
33 Ship building ¹	10,794	13,470	12,001	13,111	13,565	14,494	15,116	17,467
34 Barges and other nonpropelled ships	239	186	189	142	106	95	103	113
35 Military ships	9,899	12,606	11,146	12,459	12,953	13,968	14,609	16,903
36 Other ships	656	680	666	514	511	436	410	459
37 Boat building ²	2,681	3,126	2,834	2,821	2,704	2,413	2,193	2,476
38 Fishing boats	151	128	96	54	53	45	42	48
39 Tugboats and towboats	466	521	545	464	455	390	363	409
40 Outboard motorboats	202	303	226	587	668	528	413	426
41 Inboard motorboats	652	869	744	558	495	503	512	631
42 Other boats	1,209	1,306	1,223	1,161	1,037	948	865	964
43 Tourism and recreation, coastal and offshore	217,015	220,555	225,132	230,449	238,992	242,039	182,057	231,817
44 Guided tours	15,658	14,386	13,190	15,489	16,594	16,167	10,336	14,154
45 Water guided tours	9,597	8,608	7,442	9,350	10,140	10,206	6,739	8,546
46 Other scenic tours	6,061	5,778	5,747	6,138	6,453	5,962	3,600	5,599
47 Recreational fishing, offshore	2,873	3,252	4,331	5,239	5,404	5,111	5,182	5,898
48 Boating and paddling, offshore	50,118	51,059	51,445	53,097	53,371	54,440	51,282	56,151
49 Sailing	2,041	2,062	2,210	2,255	2,243	2,559	1,682	1,595
50 Motorboating	32,074	33,125	33,703	35,017	34,944	35,445	35,584	37,845
51 Canoeing	59	61	65	119	100	110	172	323
52 Kayaking	183	183	179	190	178	177	245	430
53 Other boating and paddling ³	15,761	15,596	15,147	15,313	15,753	15,946	13,157	15,687
54 Other water activities ⁴	2,849	3,177	3,102	3,105	3,188	3,765	4,194	4,877
55 Other coastal recreation	29,757	30,195	30,205	30,767	31,183	31,552	27,186	31,989
56 Maritime museums and cultural institutions	1,887	1,713	1,691	1,651	1,748	1,798	1,581	1,792
57 Beachgoing	240	237	237	242	234	261	243	308
58 Amusement parks	2,282	2,424	2,575	2,440	2,626	2,558	1,538	2,095
59 Hiking and camping	1,388	1,388	1,335	1,254	1,337	1,542	1,568	2,074
60 RVing	10,894	10,637	10,485	10,552	10,852	11,164	9,528	10,298
61 Photography	253	359	284	282	248	283	296	321
62 Other general expenses	12,812	13,411	13,535	14,286	14,061	13,890	12,511	15,031
63 Trips and travel, coastal	115,760	118,514	122,829	122,697	128,935	130,744	85,509	119,544
64 Eating and drinking places	17,509	18,360	18,941	19,504	19,938	20,545	9,062	18,571
65 Hotel and lodging places	64,380	65,383	66,122	66,365	67,573	68,295	59,047	68,230
66 Travel arrangement services	2,909	3,230	3,546	3,815	4,133	4,299	2,049	2,666
67 Transportation services	30,962	31,527	34,594	33,078	38,011	38,303	12,513	28,844
68 National defense and public administration	172,959	171,447	172,005	169,389	168,984	177,655	187,410	189,847
69 National defense and coast guard	163,543	162,226	162,668	159,683	159,076	167,585	175,957	177,147
70 Federal public administration	8,440	8,204	8,282	8,591	8,796	8,897	10,189	11,401
71 State and local public administration	976	1,018	1,057	1,110	1,103	1,173	1,242	1,248

1. Consists of government and commercial vessels built in shipyards. Vessels include, but are not limited to, naval surface combatants, cargo ships, barges, oil drilling platforms, passenger ships, tugboats, research vessels, submarines, and fishing vessels.

2. Consists of government and commercial vessels not built in shipyards. Vessels include, but are not limited to, commercial fishing boats, motorboats (inboard and outboard), inflatables, tour boats, sailboats, and underwater remotely operated vehicles. Activity associated with the manufacture of boats and other watercraft used for recreational purposes is included in tourism and recreation sector.

3. Consists of, but are not limited to, hovercraft, personal watercrafts, pontoon boats, life rafts and associated expenses such as repair services, insurance, fuel, etc.

4. Consists of swimming, snorkeling, scuba diving, surfing, and related water activities.

Note. Chained (2014) dollar series are calculated as the product of the chain-type quantity index and the 2014 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive.

Table 8. Marine Economy Gross Output by Activity
[Millions of current dollars]

	2014	2015	2016	2017	2018	2019	2020	2021
1 Total marine economy	653,834	614,479	595,206	623,124	665,946	695,021	600,700	730,018
2 Living resources, marine	22,719	23,754	24,567	26,359	27,098	28,777	29,640	35,651
3 Commercial harvest, seafood markets, and processing	21,549	22,219	22,889	24,520	24,791	25,670	24,699	27,280
4 Commercial harvest and seafood markets	10,849	10,599	11,420	11,915	12,315	12,345	11,455	13,371
5 Seafood processing	10,700	11,620	11,469	12,605	12,476	13,325	13,245	13,909
6 Fish-based animal foods	175	164	160	94	104	102	113	119
7 Pharmaceuticals, marine-based	995	1,372	1,519	1,744	2,203	3,006	4,827	8,252
8 Construction, coastal and marine	5,267	5,689	6,591	6,671	6,401	7,955	8,028	7,233
9 Conservation	3,281	3,667	4,658	4,672	4,073	4,404	4,544	3,944
10 Dredging	260	287	361	296	359	879	800	843
11 Recreation facilities	1,726	1,735	1,572	1,703	1,968	2,672	2,684	2,446
12 Research and education, marine	8,426	8,852	9,229	9,718	9,993	10,932	12,369	11,625
13 Scientific research	5,297	5,441	5,895	6,311	6,902	7,761	9,055	8,643
14 National defense research and development (R&D)	145	145	141	137	143	149	160	172
15 Federal nondefense R&D	1,417	1,526	1,687	1,793	1,910	2,132	2,779	2,920
16 State and local R&D	1,798	1,870	1,946	2,075	2,172	2,250	2,291	2,372
17 Nonacademic R&D	1,936	1,901	2,121	2,307	2,678	3,229	3,825	3,179
18 Educational programs and courses	2,815	3,061	2,965	3,031	2,725	2,956	3,119	2,781
19 Vocational training	266	293	308	309	307	153	135	142
20 Laboratories	49	57	61	67	60	62	60	59
21 Transportation and warehousing, marine	59,966	59,833	59,800	64,551	69,666	70,625	52,655	65,485
22 Freight transportation	38,995	38,578	37,109	39,528	41,746	40,895	39,071	49,860
23 Passenger transportation	18,422	18,666	19,865	21,782	24,472	26,086	9,763	11,023
24 Warehousing and storage	2,548	2,589	2,826	3,241	3,448	3,644	3,821	4,602
25 Professional and technical services, marine	5,957	6,391	6,721	6,730	6,668	6,898	7,123	7,638
26 Minerals, offshore	134,296	95,848	71,624	77,768	89,878	93,718	68,568	93,130
27 Oil and gas	131,176	92,899	68,889	74,587	86,527	90,629	65,744	90,099
28 Sand and gravel	2,511	2,354	2,227	2,673	2,802	2,555	2,380	2,495
29 Support services	610	596	508	509	549	534	444	536
30 Utilities, coastal	13,752	14,195	13,307	13,390	14,302	14,186	13,066	16,511
31 Traditional power generation	13,752	14,195	13,307	13,390	14,302	14,186	13,066	16,511
32 Ship and boat building, nonrecreational	13,475	16,689	14,924	16,053	16,491	17,320	17,924	20,859
33 Ship building ¹	10,794	13,515	12,010	13,154	13,685	14,727	15,501	18,019
34 Barges and other nonpropelled ships	239	186	187	141	105	100	111	129
35 Military ships	9,899	12,631	11,138	12,487	13,066	14,181	14,958	17,388
36 Other ships	656	698	686	526	514	445	432	502
37 Boat building ²	2,681	3,174	2,913	2,899	2,806	2,593	2,423	2,840
38 Fishing boats	151	131	99	55	53	47	45	52
39 Tugboats and towboats	466	535	561	475	457	400	384	450
40 Outboard motorboats	202	306	230	600	704	584	464	505
41 Inboard motorboats	652	872	765	581	531	561	583	744
42 Other boats	1,209	1,330	1,257	1,188	1,060	1,002	946	1,089
43 Tourism and recreation, coastal and offshore	217,015	211,192	215,019	227,979	246,582	253,144	186,908	256,504
44 Guided tours	15,658	14,708	13,727	16,391	18,007	18,023	11,909	16,670
45 Water guided tours	9,597	8,796	7,743	9,894	10,984	11,365	7,714	10,000
46 Other scenic tours	6,061	5,912	5,983	6,497	7,023	6,658	4,194	6,669
47 Recreational fishing, offshore	2,873	3,267	4,364	5,317	5,536	5,460	5,540	6,623
48 Boating and paddling, offshore	50,118	44,541	43,171	47,146	50,710	51,307	46,062	58,256
49 Sailing	2,041	2,101	2,282	2,344	2,409	2,831	1,943	1,912
50 Motorboating	32,074	29,942	29,724	32,292	34,167	34,809	33,878	40,711
51 Canoeing	59	62	67	125	107	121	194	392
52 Kayaking	183	186	186	203	197	205	286	541
53 Other boating and paddling ³	15,761	12,249	10,912	12,183	13,830	13,340	9,760	14,700
54 Other water activities ⁴	2,849	3,208	3,159	3,180	3,322	4,008	4,587	5,845
55 Other coastal recreation	29,757	29,001	28,755	30,067	31,303	31,950	26,812	34,150
56 Maritime museums and cultural institutions	1,887	1,747	1,751	1,758	1,866	1,952	1,794	2,064
57 Beachgoing	240	237	240	247	241	276	261	357
58 Amusement parks	2,282	2,520	2,781	2,723	3,009	3,055	1,954	2,774
59 Hiking and camping	1,388	1,422	1,338	1,277	1,391	1,632	1,656	2,335
60 RVing	10,894	9,295	8,821	9,458	10,415	10,555	8,314	10,430
61 Photography	253	347	257	262	234	261	284	329
62 Other general expenses	12,812	13,434	13,566	14,341	14,147	14,219	12,547	15,860
63 Trips and travel, coastal	115,760	116,468	121,844	125,878	137,702	142,397	91,998	134,961
64 Eating and drinking places	17,509	18,924	20,019	21,115	22,159	23,425	10,767	23,054
65 Hotel and lodging places	64,380	67,218	70,056	72,408	76,443	79,683	68,806	82,030
66 Travel arrangement services	2,909	3,248	3,587	3,873	4,230	4,491	2,100	2,754
67 Transportation services	30,962	27,077	28,182	28,483	34,870	34,798	10,324	27,123
68 National defense and public administration	172,959	172,036	173,425	173,904	178,867	191,466	204,418	215,381
69 National defense and coast guard	163,543	162,745	163,933	163,802	168,193	180,391	191,685	200,755
70 Federal public administration	8,440	8,290	8,463	8,998	9,534	9,865	11,420	13,212
71 State and local public administration	976	1,002	1,029	1,105	1,140	1,211	1,314	1,415

1. Consists of government and commercial vessels built in shipyards. Vessels include, but are not limited to, naval surface combatants, cargo ships, barges, oil drilling platforms, passenger ships, tugboats, research vessels, submarines, and fishing vessels.

2. Consists of government and commercial vessels not built in shipyards. Vessels include, but are not limited to, commercial fishing boats, motorboats (inboard and outboard), inflatables, tour boats, sailboats, and underwater remotely operated vehicles. Activity associated with the manufacture of boats and other watercraft used for recreational purposes is included in tourism and recreation sector.

3. Consists of, but are not limited to, hovercraft, personal watercrafts, pontoon boats, life rafts and associated expenses such as repair services, insurance, fuel, etc.

4. Consists of swimming, snorkeling, scuba diving, surfing, and related water activities.

Table 9. Real Marine Economy Gross Output by Industry
 [Millions of chained (2014) dollars]

	2014	2015	2016	2017	2018	2019	2020	2021
1 All industries	653,834	654,398	639,064	644,921	658,854	682,671	608,118	671,996
2 Private industries	466,951	467,759	450,507	459,602	474,495	489,170	400,773	463,111
3 Agriculture, forestry, fishing, and hunting	6,676	6,740	6,699	6,902	6,536	6,456	5,821	5,426
4 Farms	732	753	801	810	775	756	737	705
5 Forestry, fishing, and related activities	5,944	5,987	5,897	6,091	5,761	5,698	5,090	4,727
6 Mining	117,454	109,307	86,621	83,846	88,099	98,596	86,651	82,652
7 Oil and gas extraction	78,184	73,388	72,443	70,591	75,646	81,729	77,663	73,049
8 Mining, except oil and gas	1,437	1,493	1,469	1,493	1,517	1,468	1,433	1,407
9 Support activities for mining	37,833	34,364	18,449	17,501	17,355	21,950	15,302	15,277
10 Utilities	10,034	11,675	11,858	11,620	11,281	10,816	10,572	9,976
11 Construction	5,015	5,342	6,139	6,013	5,575	6,755	6,710	5,720
12 Manufacturing	73,725	75,967	70,128	74,637	76,048	77,074	69,856	79,409
13 Durable goods	27,936	28,724	24,508	27,884	28,417	28,800	29,492	31,925
14 Wood products	4	4	4	3	4	3	5	5
15 Nonmetallic mineral products	60	64	69	62	57	58	61	59
16 Primary metals	4	3	2	1	0	0	0	0
17 Fabricated metal products	244	208	129	114	115	118	140	162
18 Machinery	8,263	6,179	3,831	4,644	4,939	4,793	4,370	4,012
19 Computer and electronic products	157	222	185	145	135	131	136	159
20 Electrical equipment, appliances, and components	396	323	276	480	549	460	378	376
21 Motor vehicles, bodies and trailers, and parts	355	362	293	137	89	99	154	111
22 Other transportation equipment	17,613	20,491	18,905	21,348	21,527	22,030	22,937	25,342
23 Furniture and related products	34	33	26	30	24	42	34	48
24 Miscellaneous manufacturing	806	837	784	913	975	1,057	1,257	1,611
25 Nondurable goods	45,789	47,261	46,649	46,928	47,806	48,452	38,691	46,366
26 Food and beverage and tobacco products	7,653	8,448	8,288	8,400	7,885	8,169	7,789	7,681
27 Textile mills and textile product mills	158	152	161	135	185	249	182	286
28 Apparel and leather and allied products	569	542	576	472	431	493	628	868
29 Paper products	1	1	1	4	0	1	1	1
30 Printing and related support activities	2	2	2	1	0	1	2	7
31 Petroleum and coal products	36,437	36,997	36,486	36,642	38,311	38,020	26,069	33,764
32 Chemical products	896	925	933	1,022	1,111	1,294	1,564	2,062
33 Plastics and rubber products	74	73	67	79	58	100	166	173
34 Wholesale trade	22,003	20,681	19,113	19,863	20,615	20,195	18,066	23,068
35 Retail trade	30,799	32,278	33,780	35,547	36,993	37,795	35,438	45,172
36 Motor vehicle and parts dealers	3,586	4,221	4,921	5,169	5,102	5,034	5,320	6,234
37 Food and beverage stores	3,167	3,162	3,198	3,372	3,334	3,486	3,505	3,980
38 General merchandise stores	4,238	4,505	4,456	4,850	4,836	4,764	5,280	5,675
39 Other retail	19,807	20,405	21,240	22,202	23,736	24,496	21,459	29,216
40 Transportation and warehousing	78,187	78,561	79,869	81,796	87,023	87,278	60,847	74,360
41 Air transportation	8,611	8,868	11,474	9,869	11,986	12,307	3,982	8,691
42 Rail transportation	1,106	945	618	648	735	695	409	450
43 Water transportation	38,899	37,267	36,826	39,388	40,938	40,839	25,543	27,429
44 Truck transportation	5,663	6,047	6,070	6,290	6,457	6,458	5,986	7,026
45 Transit and ground passenger transportation	1,604	1,665	1,935	2,185	2,477	2,525	1,360	1,738
46 Pipeline transportation	3,333	3,510	3,423	3,578	4,113	4,194	3,648	3,914
47 Other transportation and support activities	16,911	18,189	17,395	17,291	17,855	17,666	16,408	21,786
48 Warehousing and storage	2,060	2,068	2,276	2,550	2,603	2,758	2,899	3,267
49 Information	526	563	623	635	690	756	771	871
50 Publishing industries, except internet (includes software)	161	176	199	202	219	204	158	149
51 Motion picture and sound recording industries	20	21	26	22	25	28	27	96
52 Broadcasting and telecommunications	160	159	143	148	139	151	166	164
53 Data processing, internet publishing, and other information services	186	207	256	264	312	378	425	467
54 Finance, insurance, real estate, rental, and leasing	55,090	56,242	57,271	57,493	58,756	60,220	59,663	60,785
55 Finance and insurance	8,184	8,850	9,270	9,355	9,225	9,721	9,616	10,120
56 Federal Reserve banks, credit intermediation, and related activities	176	181	181	186	165	192	183	216
57 Securities, commodity contracts, and investments	0	0	0	0	0	0	0	0
58 Insurance carriers and related activities	8,008	8,669	9,089	9,169	9,061	9,529	9,433	9,903
59 Funds, trusts, and other financial vehicles	0	0	0	0	0	0	0	0
60 Real estate and rental and leasing	46,906	47,396	48,012	48,152	49,521	50,512	50,058	50,706
61 Real estate	44,961	45,080	45,438	45,486	46,474	46,982	47,457	47,985
62 Housing	44,959	45,077	45,436	45,483	46,472	46,980	47,455	47,981
63 Other real estate	2	2	2	2	2	2	2	3
64 Rental and leasing services and lessors of intangible assets	1,945	2,334	2,631	2,744	3,213	3,829	2,553	2,699
65 Professional and business services	9,413	9,611	10,251	11,202	12,248	12,877	7,815	10,348
66 Professional, scientific, and technical services	2,789	2,696	2,708	2,854	3,103	3,458	3,732	3,055
67 Legal services	598	600	598	617	603	599	570	585
68 Computer systems design and related services	41	49	34	76	57	58	43	71
69 Miscellaneous professional, scientific, and technical services	2,149	2,046	2,077	2,162	2,446	2,807	3,130	2,400
70 Management of companies and enterprises	42	40	67	57	58	72	68	92
71 Administrative and waste management services	6,582	6,876	7,477	8,291	9,087	9,345	3,947	7,240
72 Administrative and support services	6,577	6,868	7,469	8,284	9,079	9,335	3,939	7,234
73 Waste management and remediation services	5	7	8	7	8	11	13	8
74 Educational services, health care, and social assistance	2,636	2,808	2,780	2,829	2,596	2,515	2,492	2,278
75 Educational services	2,520	2,679	2,629	2,670	2,435	2,352	2,361	2,092
76 Health care and social assistance	116	129	151	158	160	163	131	186
77 Ambulatory health care services	34	40	55	60	66	70	74	95
78 Hospitals	70	75	83	85	81	80	49	79
79 Nursing and residential care facilities	9	8	9	9	9	9	4	7
80 Social assistance	4	5	5	5	5	6	7	7
81 Arts, entertainment, recreation, accommodation, and food services	52,000	53,535	54,765	55,719	56,698	57,623	30,503	50,989
82 Arts, entertainment, and recreation	13,343	13,289	13,644	13,851	14,077	14,132	8,340	10,279
83 Performing arts, spectator sports, museums, and related activities	1,787	1,621	1,590	1,569	1,653	1,700	1,402	1,705
84 Amusements, gambling, and recreation industries	11,555	11,668	12,053	12,283	12,424	12,432	6,954	8,593
85 Accommodation and food services	38,658	40,246	41,121	41,867	42,620	43,489	22,129	40,934
86 Accommodation	22,214	22,952	23,246	23,435	23,641	23,936	12,977	22,794

Table 9. Real Marine Economy Gross Output by Industry
 [Millions of chained (2014) dollars]

	2014	2015	2016	2017	2018	2019	2020	2021	
87	Food services and drinking places	16,444	17,294	17,872	18,426	18,972	19,545	9,201	18,082
88	Other services, except government	3,393	3,423	3,478	3,475	3,140	3,242	3,305	3,491
89	Government	186,883	186,635	187,959	185,164	184,545	193,525	203,769	206,833
90	Federal	173,486	172,027	172,686	169,925	169,437	178,300	188,585	191,181
91	General government	173,382	171,926	172,589	169,828	169,342	178,206	188,512	191,092
92	National defense	160,451	159,226	159,608	156,473	155,746	164,311	172,633	173,657
93	Nondefense	12,932	12,701	12,979	13,343	13,577	13,886	15,835	17,360
94	Government enterprises	104	100	97	97	95	93	72	88
95	State and local	13,397	14,629	15,319	15,294	15,160	15,261	15,183	15,659
96	General government	4,964	5,299	5,525	5,692	5,603	5,842	5,868	5,692
97	Government enterprises	8,433	9,332	9,796	9,597	9,553	9,415	9,311	9,956

Note. Chained (2014) dollar series are calculated as the product of the chain-type quantity index and the 2014 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive.

Table 10. Marine Economy Gross Output by Industry
[Millions of current dollars]

	2014	2015	2016	2017	2018	2019	2020	2021
1 All industries	653,834	614,479	595,206	623,124	665,946	695,021	600,700	730,018
2 Private industries	466,951	427,654	406,399	433,625	470,971	486,792	379,232	495,211
3 Agriculture, forestry, fishing, and hunting	6,676	6,059	6,288	6,693	6,659	6,487	5,533	5,783
4 Farms	732	711	689	717	686	674	631	671
5 Forestry, fishing, and related activities	5,944	5,348	5,599	5,976	5,973	5,813	4,902	5,112
6 Mining	117,454	81,162	59,342	64,807	76,088	79,560	54,940	77,511
7 Oil and gas extraction	78,184	45,547	40,267	46,259	58,316	57,472	40,064	62,923
8 Mining, except oil and gas	1,437	1,307	1,223	1,404	1,494	1,394	1,299	1,326
9 Support activities for mining	37,833	34,308	17,852	17,145	16,278	20,695	13,578	13,261
10 Utilities	10,034	10,312	9,581	9,703	10,394	10,358	9,313	12,230
11 Construction	5,015	5,401	6,219	6,229	6,005	7,540	7,588	6,847
12 Manufacturing	73,725	62,994	54,172	62,070	68,184	67,399	55,563	73,778
13 Durable goods	27,936	29,059	24,811	28,421	29,351	30,359	31,527	34,997
14 Wood products	4	5	5	3	4	4	6	6
15 Nonmetallic mineral products	60	65	72	68	64	66	72	72
16 Primary metals	4	3	2	1	1	0	0	1
17 Fabricated metal products	244	212	132	119	123	131	157	189
18 Machinery	8,263	6,252	3,855	4,684	5,033	4,960	4,574	4,266
19 Computer and electronic products	157	213	164	130	122	123	132	159
20 Electrical equipment, appliances, and components	396	329	282	494	569	485	405	413
21 Motor vehicles, bodies and trailers, and parts	355	365	297	141	94	98	153	120
22 Other transportation equipment	17,613	20,732	19,181	21,837	22,337	23,316	24,673	27,951
23 Furniture and related products	34	34	28	32	27	48	40	60
24 Miscellaneous manufacturing	806	850	792	914	978	1,127	1,314	1,760
25 Nondurable goods	45,789	33,934	29,361	33,649	38,833	37,040	24,035	38,781
26 Food and beverage and tobacco products	7,653	8,296	8,140	8,819	8,582	9,193	8,736	9,159
27 Textile mills and textile product mills	158	154	163	138	191	260	193	314
28 Apparel and leather and allied products	569	551	588	490	455	522	660	920
29 Paper products	1	1	1	4	0	1	1	1
30 Printing and related support activities	2	2	2	1	0	1	2	8
31 Petroleum and coal products	36,437	23,882	19,353	22,924	28,213	25,378	12,313	25,549
32 Chemical products	896	975	1,043	1,191	1,331	1,576	1,946	2,629
33 Plastics and rubber products	74	74	70	83	62	109	184	202
34 Wholesale trade	22,003	21,322	20,218	21,464	22,455	22,639	20,100	27,059
35 Retail trade	30,799	33,027	35,211	37,402	39,425	41,137	40,610	54,130
36 Motor vehicle and parts dealers	3,586	4,135	4,848	5,028	5,103	5,238	5,561	6,706
37 Food and beverage stores	3,167	3,320	3,474	3,702	3,776	4,030	4,227	4,880
38 General merchandise stores	4,238	4,442	4,425	4,845	4,817	4,882	5,338	6,073
39 Other retail	19,807	21,131	22,464	23,827	25,729	26,986	25,484	36,471
40 Transportation and warehousing	78,187	78,108	79,992	84,276	93,309	95,438	64,503	84,030
41 Air transportation	8,611	8,422	10,648	9,362	11,807	12,561	3,597	7,803
42 Rail transportation	1,106	910	586	637	763	744	438	505
43 Water transportation	38,899	37,186	36,979	40,938	44,673	45,126	26,672	31,549
44 Truck transportation	5,663	5,948	5,935	6,289	6,863	7,020	6,480	8,545
45 Transit and ground passenger transportation	1,604	1,683	2,005	2,296	2,631	2,697	1,425	1,885
46 Pipeline transportation	3,333	3,562	3,590	3,780	4,406	4,750	4,297	4,845
47 Other transportation and support activities	16,911	18,299	17,924	18,299	19,329	19,538	18,441	25,118
48 Warehousing and storage	2,060	2,098	2,324	2,676	2,836	3,001	3,153	3,780
49 Information	526	567	633	658	723	813	866	1,012
50 Publishing industries, except internet (includes software)	161	178	199	204	221	209	173	168
51 Motion picture and sound recording industries	20	21	26	23	27	30	31	112
52 Broadcasting and telecommunications	160	160	154	166	160	184	210	213
53 Data processing, internet publishing, and other information services	186	208	254	265	315	390	452	518
54 Finance, insurance, real estate, rental, and leasing	55,090	57,558	60,149	62,108	65,369	69,053	70,237	73,725
55 Finance and insurance	8,184	8,928	9,441	9,580	9,548	10,281	10,518	11,228
56 Federal Reserve banks, credit intermediation, and related activities	176	184	189	198	191	224	215	250
57 Securities, commodity contracts, and investments	0	0	0	0	0	0	0	0
58 Insurance carriers and related activities	8,008	8,744	9,251	9,381	9,358	10,057	10,303	10,978
59 Funds, trusts, and other financial vehicles	0	0	0	0	0	0	0	0
60 Real estate and rental and leasing	46,906	48,630	50,708	52,528	55,821	58,772	59,719	62,497
61 Real estate	44,961	46,465	48,436	50,150	52,972	55,387	57,561	59,650
62 Housing	44,959	46,462	48,433	50,147	52,969	55,384	57,558	59,646
63 Other real estate	2	2	3	3	3	3	3	4
64 Rental and leasing services and lessors of intangible assets	1,945	2,166	2,272	2,378	2,849	3,385	2,158	2,847
65 Professional and business services	9,413	9,817	10,601	11,837	13,238	14,246	8,778	11,898
66 Professional, scientific, and technical services	2,789	2,768	2,782	3,021	3,392	3,872	4,353	3,683
67 Legal services	598	620	630	673	675	694	692	743
68 Computer systems design and related services	41	50	34	78	61	63	49	83
69 Miscellaneous professional, scientific, and technical services	2,149	2,098	2,119	2,269	2,655	3,114	3,613	2,857
70 Management of companies and enterprises	42	41	67	59	63	79	78	109
71 Administrative and waste management services	6,582	7,008	7,752	8,757	9,783	10,295	4,346	8,106
72 Administrative and support services	6,577	7,003	7,747	8,752	9,777	10,289	4,340	8,099
73 Waste management and remediation services	5	5	5	5	6	6	6	7
74 Educational services, health care, and social assistance	2,636	2,855	2,872	2,997	2,810	2,783	2,824	2,680
75 Educational services	2,520	2,724	2,717	2,831	2,639	2,605	2,676	2,463
76 Health care and social assistance	116	131	155	166	170	179	148	217
77 Ambulatory health care services	34	40	55	61	66	72	77	102
78 Hospitals	70	77	86	91	90	91	58	98
79 Nursing and residential care facilities	9	9	9	9	10	10	5	9
80 Social assistance	4	5	5	5	6	6	8	9
81 Arts, entertainment, recreation, accommodation, and food services	52,000	54,948	57,455	59,563	62,706	65,449	34,348	60,076
82 Arts, entertainment, and recreation	13,343	13,653	14,258	14,630	15,340	15,899	9,999	12,662
83 Performing arts, spectator sports, museums, and related activities	1,787	1,658	1,657	1,680	1,779	1,864	1,606	1,979
84 Amusements, gambling, and recreation industries	11,555	11,995	12,601	12,950	13,561	14,035	8,393	10,683
85 Accommodation and food services	38,658	41,295	43,196	44,933	47,366	49,551	24,349	47,414
86 Accommodation	22,214	23,466	24,303	24,982	26,277	27,261	13,428	24,954

Table 10. Marine Economy Gross Output by Industry
 [Millions of current dollars]

	2014	2015	2016	2017	2018	2019	2020	2021	
87	Food services and drinking places	16,444	17,829	18,893	19,951	21,089	22,290	10,921	22,460
88	Other services, except government	3,393	3,522	3,665	3,817	3,605	3,890	4,029	4,451
89	Government	186,883	186,825	188,807	189,499	194,975	208,229	221,468	234,807
90	Federal	173,486	172,647	174,180	174,525	179,433	192,282	205,795	216,820
91	General government	173,382	172,548	174,082	174,424	179,333	192,184	205,718	216,717
92	National defense	160,451	159,709	160,802	160,442	164,600	176,771	187,964	196,705
93	Nondefense	12,932	12,839	13,280	13,982	14,734	15,413	17,754	20,012
94	Government enterprises	104	99	98	101	99	98	77	103
95	State and local	13,397	14,179	14,627	14,974	15,542	15,947	15,673	17,987
96	General government	4,964	5,222	5,430	5,692	5,774	6,081	6,180	6,261
97	Government enterprises	8,433	8,956	9,197	9,282	9,767	9,866	9,493	11,726