

Defining and Measuring the U.S. Marine Economy

Authors

William Nicolls, primary author; Connor Franks, Teresa Gilmore, Rachel Goulder, Luke Mendelsohn, Taylor Grant and Edward Morgan, Bureau of Economic Analysis

Jeffery Adkins, Monica Grasso, Kate Quigley, and Jennifer Zhuang, National Oceanic and Atmospheric Administration

Charles Colgan, Middlebury Institute of International Studies at Monterey

Contact

william.nicolls@bea.gov

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Abstract

The Bureau of Economic Analysis (BEA), in partnership with the National Oceanic and Atmospheric Administration (NOAA), has developed statistics to measure the marine's contribution to U.S. gross domestic product (GDP). Economic activity associated with the marine environment exists within BEA's national accounts but is not clearly visible within the standard national accounts structure. These new estimates were extracted from the national accounts supply-use framework and arranged to give a distinct view of U.S. marine-related production. These prototype statistics provide an opportunity for outside groups to give feedback on the methodology used to develop these results, and they are the first step in building a comprehensive measure of the marine environment's role in the overall U.S. economy in the form of a Marine Economy Satellite Account (MESA).

A satellite account is a framework that is harmonious with the national accounts, but in which portions of the detail that underlies the national accounts have been extracted and rearranged to present a view of a defined aspect of the economy. The marine economy prototype statistics that BEA has developed do not include the real estimates, price measures, and other information that a full BEA satellite account contains; however, they were constructed following the same techniques used to construct BEA's other satellite accounts. First, a conceptual definition of the marine economy was developed by NOAA and NOAA researchers identified specific goods and services relevant to the marine economy within BEA's supply-use framework. Second, BEA identified and defined the activities associated with the marine economy. Third, NOAA and BEA conducted research to estimate the marine-related portion of production within each of these goods and services. Lastly, BEA identified the industries responsible for producing these goods and services and measured the output, value added, compensation, and employment associated with that production.

These prototype statistics show that the marine economy accounted for 1.8 percent (\$372.8 billion) of national GDP in 2018. This paper will discuss the methodology used to arrive at this number as well as the challenges that remain in measuring the full scope of the marine economy.

1. Introduction

The marine environment provides a wealth of economic benefits to the everyday lives of Americans. Oil and gas are extracted from the ocean floor, and resources are extracted from its waters for food, for use in the development of medicines, and in support of a host of other scientific endeavors. Water freight transportation is the backbone for international and domestic goods commerce, providing retailers, farmers, manufacturers, and others with access to distant markets. Even leisure time is often spent vacationing along the ocean shores. The focus of this paper is on prototype statistics that measure the economic contributions of the oceans, coasts, and Great Lakes to U.S. gross domestic product (GDP).

The Bureau of Economic Analysis (BEA) and National Oceanic and Atmospheric Administration (NOAA) have partnered to create these prototype statistics. While NOAA has already developed a wide range of statistics related to the marine economy, the partnership between BEA and NOAA allows development of economic statistics consistent with the national accounting framework used by BEA in the measurement of GDP. This framework is a comprehensive and consistent accounting of the entire national economy and underpins the satellite account estimation methodology used in preparing these statistics.

Satellite accounts identify and present defined aspects of the U.S. economy that are not readily visible in the standard presentation of the national accounts. Supply-use tables are one element of the national accounting framework and form the foundation on which U.S. marine production statistics were developed. Marine production is already included in the supply-use framework but is not explicitly identified within the North American Industry Classification System (NAICS) code structure used in the national accounts. Table 1 shows a small portion of BEA's published 2018 GDP by industry statistics, which include embedded marine-related production. For example, the farm industry contains aquaculture, which is included as a marine economy activity that will be presented in the prototype statistics. Other marine economy activities included in Table 1 are commercial fishing, which is embedded in the forestry, fishing, and related activities industry, and offshore oil drilling, which is found in the oil and gas extraction industry.

Table 1. Value Added by Industry[Billions of dollars]

Line		2018
1	Gross domestic product	20,580.2
2	Private industries	18,035.6
3	Agriculture, forestry, fishing, and hunting	166.5
4	Farms	129.6
5	Forestry, fishing, and related activities	36.9
6	Mining	346.6
7	Oil and gas extraction	236.8
8	Mining, except oil and gas	60.6
9	Support activities for mining	49.3

Bureau of Economic Analysis Release Date: October 29, 2019 The marine economy prototype statistics presented in this document are a first step toward creating a full marine economy satellite account. Results are presented in current dollars and are available at approximately the three-digit NAICS industry level of detail for gross output, value added, compensation, and employment. Gross output and value added are also available by activity groupings that reflect an emerging international consensus on how to characterize the composition of the marine economy. Results do not include real estimates (adjusted for the effects of inflation), price measures, and other information that a full BEA satellite account would contain.

Gross output is a measure of economic activity associated with the domestic production of goods and services, including goods and services sold both to final consumers (GDP) and to other industries (intermediate inputs). Gross output differs from value added, which is a measure of an industry's contribution to GDP. Value added by industry reflects the total value of domestic production less the value of inputs used up in the production process and can also be measured as the sum of production-related compensation, profits, and taxes. Compensation is defined as total wages and supplements by industry, and employment is defined as the average annual number of full-time and part-time employees.

The next section of this report explains the methodology used to prepare these statistics; results are presented in the subsequent section; and the report will conclude with a description of next steps in the project and future areas of research.

2. Methodology

The marine economy statistics were developed following the same underlying methodology used to estimate many other BEA satellite accounts. First, the geographic scope of the account was determined. Second, with the geographic scope as a guide, a conceptual definition of marine-related production was developed. Third, the conceptual definition was used by BEA and NOAA to identify the goods and services germane to measuring the marine economy statistics. Lastly, using the supply-use framework, BEA identified the industries responsible for producing these goods and services and measured the output, value added, compensation, and employment associated with their production.

2.1 Define the scope of the marine economy

The starting point for developing the marine economy statistics was to determine the geographical scope of the account. This geographical aspect differentiates the marine economy from the other BEA satellite accounts, which are primarily activity driven. Included in the geographical scope are all U.S. oceans and marginal seas. This comprises 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 America, 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. Lastly, portions of inland waters are included where there is significant marine activity. For example, Norfolk, VA, is a major inland port that serves marine-bound vessels.

Inclusion of the Great Lakes is likely the geographic aspect of the marine economy statistics that is the least intuitive. The geographic scope for the prototype statistics stems from the Coastal Zone Management Act of 1972, which provided for NOAA management of coastal resources and included the Great Lakes. Economic production of the Great Lakes tends to mimic economic production of the marine, including international and domestic water freight transportation, recreational fishing, beachgoing, and other coastal-based tourism.

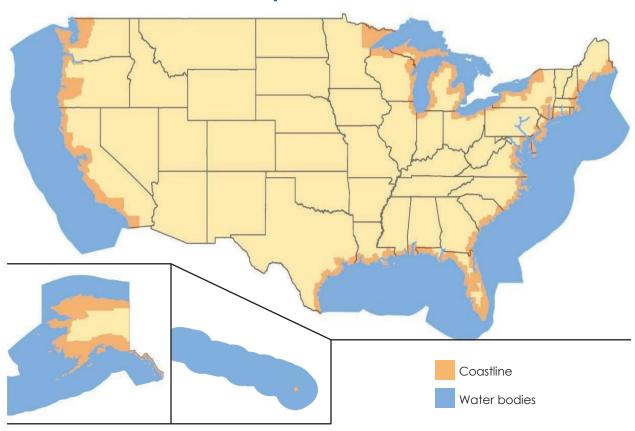


Chart 1. Marine Economy Defined Water Bodies and Coastline

While the marine economy is defined to include all U.S. oceans, coasts, marginal seas, and Great Lakes, there is also marine-related production that takes place away from this geographically defined area of the account. The full scope of this account includes marine-related production that falls into one of three categories, based on earlier research by NOAA (Colgan, 2013).

The first category relates to production from the waters that are geographically in-scope. Included in this category is any production that takes place on the marine environment or which receives essential inputs from the marine environment. This includes such activities as water freight transportation, offshore oil and gas extraction, and commercial fishing.

The second category includes any production that, by necessity, takes place near the marine environment. The marine/coastal relationship of these production activities are identified and measured by geographic location in a shore adjacent zip code area. Within this category are such activities as coastal recreation and beach house rentals.

The third category includes commodities purchased for use on the marine environment, no matter where production takes place. Some production that is captured in this category is for exclusive or predominate use on the marine environment, such as ship and boat building or ocean navigation equipment. Other production in this category may be for a variety of uses, such as foul-weather gear and diesel fuel, but only marine-specific uses tied to the geographically relevant region are considered in scope for the marine economy statistics.

2.2 Identify and define marine-related activities

Once marine-related production was defined, the next step was to create activity groupings for the marine economy prototype statistics. This is the aspect of satellite accounts that allows a view of the economy that cannot be seen with standard national accounts and allows the flexibility to show a facet of the economy in a new way. Activity groupings provide a mechanism for production to be shifted away from the industry that produced the good or service and presented in a framework that shows how the production is being used within the context of the satellite account. The Organization for Economic Co-operation and Development (OECD), an intergovernmental economic organization with 36 member states, is endeavoring to produce international guidelines for marine account activities. BEA and NOAA have been working with OECD and monitoring the development of marine economy statistics by other nations in order to ensure that U.S. marine activities are consistent with these international accounts.

Major activity groupings for the marine economy account include the following:

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

Additional detail is also available beneath each of these main activity groupings. At the more detailed level, the goods and services that comprise each activity become clear. For example, tourism and recreation, coastal and offshore, includes sub activities for recreational boating, marine guided tours, recreational fishing, water activities, and marine trips and travel. The recreational boating sub activity includes additional subcategories, such as motorboating. Finally, the motorboating subcategory is built up based on goods and services such as motorboats, insurance, fuel, repair, boating-related gear, boat rental, boat storage, and others. In the industry view of this data, production would be spread across many industries throughout the economy. In the activity view, it is brought together and shown as a single category of activity relevant for understanding the marine economy as defined in the account.

2.3 Calculate marine share of commodity output

BEA and NOAA researched the approximately 5,000 detailed commodities underlying the supply tables and identified the specific goods and services that fell under the definition of the marine economy. With the inscope commodities established, further work was done to ensure the inclusion of only the output that fell under the geographic scope and three categories of marine-related production outlined in section 1 of this methodology. This share of in-scope commodity output to the marine economy was estimated using various government and nongovernment sources (see Appendix Table A) and applied to final demand categories or intermediate inputs. Some commodities were fully in-scope to the account and could be directly identified in the underlying detail of the BEA supply-use tables. In these cases, the entire value of commodity output was fully allocated to the marine economy statistics and additional outside information was not required. Deepsea water transportation is an example of this category of commodity. In other cases, only a portion of the underlying commodity was relevant for the marine economy, and additional data were required to identify the marine component. Aquaculture is an example of this category of commodity. In this case, marine aquaculture had to be separated from freshwater aquaculture, and data from NOAA's Fisheries of the United States was used to determine the correct percentage.

2.4 Identify marine economy industries and prepare results

The supply-use tables were then used to determine which industries produced each of the relevant commodities as either primary or secondary production. This allows for the calculation of marine economy industry gross output, which represents the total value of marine-related domestic production in the U.S. economy. Value added, compensation, and employment are derived from the relationship between the industry output for the marine environment and total industry output. This means the ratio of intermediate consumption relative to industry output for the marine environment is the same as the ratio of total industry intermediate consumption to total industry output.

BEA Methodology for Estimating Supply-Use Tables

The supply-use tables are an integral and essential element of the U.S. economic accounts. First, they are the building blocks for other economic accounts. Prominent among these are BEA's National Income and Product Accounts (NIPAs), which feature the estimates of expenditure-based GDP. Second, the supply-use tables show how industries interact; specifically, they show how industries provide input to, and use output from, each other to produce GDP. They are a complete, balanced set of economic statistics, and they present a full accounting of industry and final-use transactions.

The core of the supply-use tables consists of two basic national-accounting tables—a "supply" table and a "use" table. The supply table shows the commodities that are available for domestic consumption. The use table reveals how the U.S. domestics supply is used, showing both the purchases of supply by industries as intermediate inputs to production and purchases of supply by consumers as final consumption or investment. The use table also shows the value added produced by industry production. The use table is the most frequently requested table because of its applications to the estimates of GDP.

BEA uses the North American Industry Classification System to classify industries. The United States, Canada, and Mexico jointly developed this classification system with the aim of improving the comparability of their economic statistics. NAICS classifies industries based on their production processes. The NAICS codes comprise six digits, which reading from left to right, indicate the general sector down to a detailed industry.

BEA prepares benchmark supply-use tables roughly every 5 years based on the highest quality source data, most notably the U.S. Census Bureau's Economic Censuses. Largely because of their detailed source data, the benchmark supply-use tables are the most important statistical source of information for comprehensive updates of the NIPAs and are widely used by other statistical agencies. BEA released the most recent benchmark supply-use tables in November 2018. These accounts cover 2012 and use the 2012 NAICS for classification.

For information on the methodology for preparing the supply-use tables, see Jeffrey A. Young, Thomas F. Howells III, Erich H. Strassner, and David B. Wasshausen, "Supply-Use Tables for the United States," Survey of Current Business 95 (September 2015).

3. Results

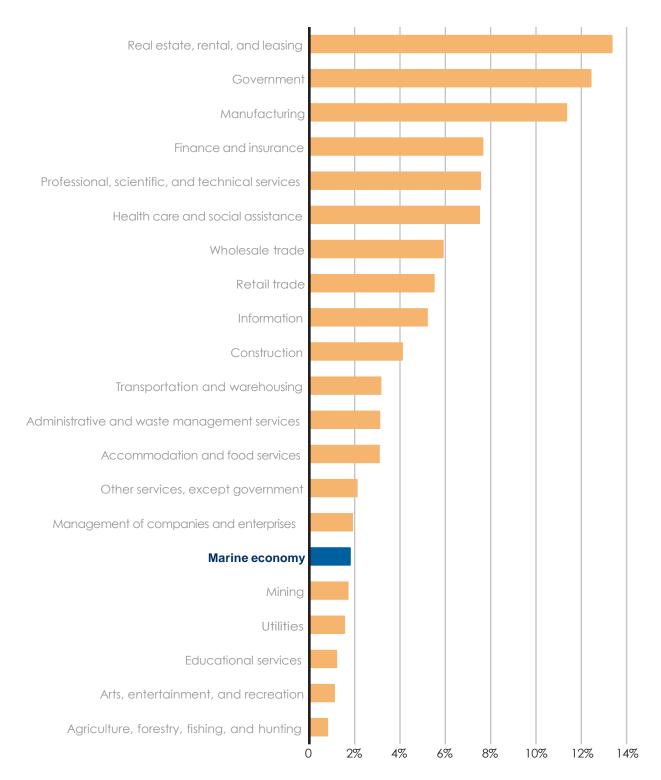
The marine economy prototype results are in current dollars and show by-industry statistics for value added, gross output, compensation, and employment as well as by-activity statistics for gross output and value added. Results do not include real estimates (adjusted for the effects of inflation), price measures, and other information that a full BEA satellite account would contain.

3.1 Value added

Value added is an industry's contribution to GDP. It represents the value of an industry's output less the cost of inputs used up in production and can be measured as the sum of compensation of employees, taxes on production and imports less subsidies, and gross operating surplus. The marine economy contributed \$372.8 billion to current-dollar value added (GDP) in 2018, comparable in size to the mining industry, with a value of \$346.6 billion in 2018. A comparison of the marine economy against mining and other NAICS-based GDP by industry can be seen in Chart 2.

Within the marine economy, the top marine contributor by activity was tourism and recreation, coastal and off- shore, accounting for 38.3 percent (\$142.8 billion) of all value added in the marine economy. Within tourism and recreation, the coastal and offshore activity, trips and travel, coastal category was the top contributor, accounting for 25.4 percent (\$94.6 billion) of total marine economy GDP. The next largest contributors were national defense and public administration (\$124.4 billion, primarily from national defense), minerals, offshore (\$48.7 billion, primarily from oil and gas), and transportation and warehousing, marine (\$25.3 billion, primarily from freight transportation).

Chart 2. Marine Economy and Industry Share of Total Gross Domestic Product, 2018



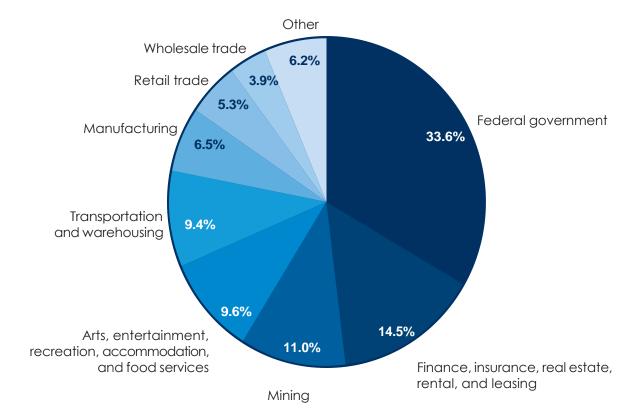


Chart 3. Marine Economy Value Added by Industry, 2018

3.2 Gross output

Gross output is the value of goods and services produced by the nation's economy. It is principally a measure of sales or receipts, including sales to final users (GDP) and sales to other industries (intermediate inputs). Total gross output for the marine economy was \$617.2 billion in 2018. Notable contributors to marine economy gross output included national defense and public administration (consists primarily of U.S. Navy) at \$178.1 billion; trips and travel, coastal at \$132.5 billion; oil and gas extraction at \$76.9 billion; and freight transportation at \$31.8 billion.

Data Availability

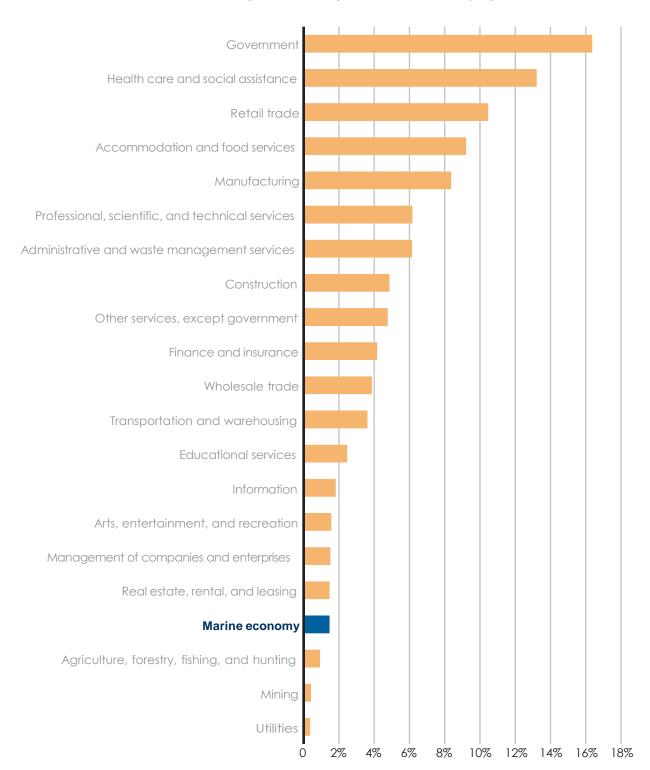
The entire time series of marine economy estimates (2014–2018) are available on the "Marine Economy" page on BEA's website. Data include current-dollar data for value added, gross output, compensation, and employment by industry. Data also include current-dollar data for value added and gross output by activity.

3.3 Employment and compensation

In 2018, the marine economy supported 2.3 million jobs, which accounted for 1.5 percent of total U.S. employment. This was comparable to the real estate industry, which also supported 2.3 million jobs in 2018 (Chart 4). Of the 2.3 million workers in the marine economy, 70 percent were employed in the private sector, with 83 percent of these private sector workers in the services sector. Within the private sector of the marine economy, food services and drinking places was the largest employer, with 269,000 full and part-time equivalent workers. Other retail trade was also a major employer, with 202,000 workers. Accommodations (194,000) and amusements, gambling, and recreation industries (191,000) were also among the top employers in the marine economy.

Compensation, which comprises total wages and benefits paid to employees, for the marine economy was \$161.9 billion in 2018. National defense accounted for 42.7 percent (\$69.2 billion) of all compensation. Other notable industries were other transportation and support activities (\$9.9 billion), other transportation equipment (\$6.9 billion), and food services and drinking places (\$6.9 billion). Employees working in the marine economy earned \$70,970 in average annual compensation, comparable to the \$71,450 in average annual compensation earned per worker for the total U.S. economy.

Chart 4. Marine Economy and Industry Share of Total Employment, 2018



3.4 Areas for future study

The marine economy prototype statistics provide an important first look at the impact of the marine economy on the overall U.S. economy. In addition, the publication of these prototype results provides an opportunity for stakeholders to review and provide feedback on the methodology that underlies the statistics and the presentation of the results. This feedback will be considered during future efforts to improve and refine the estimates.

Possible future enhancements currently under consideration include the addition of real (inflation-adjusted) estimates, price measures, measures of direct and indirect effects on the economy, and regional estimates that could include state-level statistics.

One area that BEA has already begun developing is the measurement of "blue technology" estimates. Blue technology is broadly defined by NOAA as any item that is engaged in providing technology and services designed for use in the marine environment (Goodhue and Ertis 2018), including, but not limited to, electronic and mechanical technologies and software used in marine navigation, oceanographic data collection and scientific endeavors, and ship and boat building. This view of the marine economy would show blue technology separately from nonblue technology and would highlight some of the innovations being developed for marine environments and their contributions to the overall marine economy. BEA will work closely with NOAA to better define blue technology in the marine economy as well as to refine the results of blue technology by marine activities. One challenge is that many blue technology products are intermediate inputs into other marine activities, such as new ship and boat building materials or new software for navigational equipment onboard ships. Work is ongoing to develop a methodology that will allow the role of these blue technology inputs to be accurately measured without double-counting their value as embedded inputs in other marine economy outputs. A promising avenue of research currently under investigation is the use of input-output modelling that allows better identification of the portions of the marine economy supply chain that are blue technology in order to separate them out from other activities in the supply chain.

4. Request for Feedback

BEA would like input from users to refine these estimates and further the effort to develop a comprehensive Marine Economy Satellite Account. Please email all comments to OceanEconomy@bea.gov. BEA is requesting feedback on the following questions:

- 1. Does the definition used by BEA accurately represent the ocean, coastal, and Great Lakes economy?
- 2. What goods and services not captured in the current definition of the marine economy should BEA consider in scope for the Marine Economy Satellite Account? Are there goods and services currently included in the definition that should not be included?
- 3. What datasets could BEA use to estimate shares of goods and services that are only partially in scope?
- 4. Who would use these new statistics and what would they use them for (please provide specific examples)?
- 5. Beyond statistics on value added, output, employment, and compensation, what other types of marine economy statistics would be useful?
- 6. Why are these new statistics needed? What benefits would flow to users from BEA-produced statistics in this area that they couldn't get elsewhere?

5. Tables

Table A. External Data Sources

External Data Sources

U.S. Army Corps of Engineers Analysis of Dredging Costs, Study of Developed Shoreline Master Database

NOAA Habitat Restoration Expenditures

NOAA Chesapeake Bay Program Expenditures

U.S. Army Corps of Engineers Everglades Restoration Budget

Coastal Wetlands Planning, Protection and Restoration Act Expenditures

Energy Information Administration, Annual Electric Generation by Facility

Department of Defense Budget

Federal Ocean and Coastal Activities Report (FOCAR)

NOAA Commercial Fisheries Landing Statistics, Fisheries of the United States

Department of Agriculture, Census of Aquaculture

Seattle Genetics 2016 Annual Report

Jazz Pharmaceuticals 2016 Annual Report

Baker Hughes North America Rig Count, Average Day Rates for Offshore vs Onshore Drilling

Bureau of Labor Statistics, Quarterly Census of Employment and Wages

National Marine Manufacturing Association, Recreational Boating Statistical Abstract

U.S. Coast Guard Boat Registration by State

Department of Transportation, Freight Analysis Framework

Bureau of Economic Analysis, Outdoor Recreational Satellite Account

DK Shifflet and Associates Demand for Travel Commodities by Type of Visitor

International Trade Administration, Survey of International Air Travelers

Census Bureau Service Annual Survey

Census Bureau ZIP Codes Business Patterns

National Association of Realtors

Table B. Items Used by Activity

Items Used by Activity

Construction, coastal and marine

Conservation and development facilities maintenance and repair construction – federal

Conservation and development facilities maintenance and repair construction - state and local

Federal nonresidential maintenance and repair construction

Highways and streets - private

New amusement and recreational structures – federal

New amusement and recreational structures – private

New amusement and recreational structures - state and local

New conservation and development structures - federal

New conservation and development structures – state and local

New other educational structures, including museums and libraries - private

New other educational structures, including museums and libraries – state and local

Private nonresidential maintenance and repair construction

State and local nonresidential maintenance and repair construction

National defense and public administration

Complete passenger vehicles, knockdown or assembled, passenger car chassis, etc.

Federal defense government services

Federal nondefense government services

State and local agriculture and natural resources

State and local other general government services

State and local parks and recreation

State and local police government services

State and local sanitation government services

Trucks, truck tractors, and bus chassis 14k lb. or less, including vans, minivans, SUVs

U.S. Coast Guard, Navy, and Marine auxiliary controls and accessories

Living resources, marine

Animal and marine feed and fertilizer byproducts, nsk

Beef cattle complete feed, supplements, concentrates, and premixes

Cancer therapy products, including anti-neoplastic agents and radioactive isotopes.

Canned and cured fish and other seafoods, including soup (except frozen seafoods)

Chicken and turkey and other poultry feed, supplements, concentrates, and premixes

Commercial fishing

Custom mixed animal feeds

Fresh and frozen seafood processing, nsk, total

Animal food manufacturing

Internal analgesics and antipyretics, both narcotic and non-narcotic

Other animal food manufacturing inventory change

Other animal food manufacturing other miscellaneous receipts

Other animal food manufacturing value of resales

Other livestock complete feed, feed supplements, concentrates, and premixes

Other pharmaceutical preparations affecting neoplasms, the endocrine system, and metabolic, for human use

Other poultry and livestock feed, nsk

Other prepared animal feeds, including feeding materials and adjuncts, nsk

Own account scientific research and development (taxable) pharmaceuticals and manufacturing

Pharmaceutical preparations, affecting neoplasms, the endocrine system, and metabolic diseases, for human use, nsk

Prepared feeds, nec, nsk, total

Prepared fresh fish and other fresh seafood

Prepared frozen fish, shellfish, and other prepared frozen seafoods, nec

Seafood product preparation and packaging inventory change

Seafood product preparation and packaging other miscellaneous receipts

Specialty bird and fish feed, other specialty pet, except dog and cat, food and other specialty feed

Swine complete feed, supplements, concentrates, and premixes

Minerals, offshore

All other oil and gas field services – construction

Construction sand and gravel

Construction sand and gravel mining inventory change

Construction sand and gravel mining other miscellaneous receipts

Crude petroleum and natural gas extraction inventory change

Crude petroleum and natural gas extraction other miscellaneous receipts

Crude petroleum and natural gas, nsk

Crude petroleum, including lease condens. (vols. corrected to 60 deg. F) shipped

Drilling, spudding, or tailing oil, gas, dry, or service wells – construction

Industrial sand mining inventory change

Industrial sand, nsk, total

Mining and oil and gas field machinery manufacturing inventory change

Natural gas

Oil and gas field exploration services

Oil and gas field machinery and equipment manufacturing, nsk, total

Oil and gas field production machinery and equipment (except pumps) (except parts)

Oil and gas field production machinery and equipment (except pumps), nsk

Oil and gas field derricks/substructures/accessories

Oil-well and oil-field pumps, except boiler feed (including the value of the driver if shipped as a complete unit)

Other industrial sand

Other oil and gas field drilling machinery and equipment, except parts

Portable drilling rigs used on the surface (above ground)

Rotary oil and gas field drilling machinery and equipment, nsk

Support activities for oil and gas operations inventory change

Professional and technical services, marine

General interest periodicals – subscriptions and sales

General reference books, all media except on-line publishing

Internet publishing and broadcasting – subscriptions and sales

Other periodicals – subscriptions and sales

Research and education, marine

All other laboratory receipts

All other miscellaneous schools and instruction (taxable)

Apprenticeship training schools (taxable)

Educational support services (taxable)

Expenses of apprenticeship training schools (tax exempt)

Expenses of educational support services (tax exempt)

Expenses of miscellaneous schools and instruction (tax exempt)

Expenses of other technical and trade schools (tax exempt)

Expenses of professional and management development schools (tax exempt)

Licensing of rights to use intellectual property of all other miscellaneous schools and instruction (taxable)

Licensing of rights to use intellectual property of educational support services (taxable)

Licensing of rights to use intellectual property of professional and management development schools (taxable)

Other technical and trade schools (taxable)

Outright sale of original works of intellectual property all other miscellaneous schools and instruction (taxable)

Outright sale of original works of intellectual property educational support services (taxable)

Outright sale of original works of intellectual property professional and management development schools (taxable)

Own account academic scientific research and development (tax exempt) state and local government

Own account scientific research and development (tax exempt) Federal government defense

Own account scientific research and development (tax exempt) Federal government non-defense

Professional and management development schools (taxable)

Tax exempt receipts from sales of apprenticeship training schools (tax exempt)

Tax exempt receipts from sales of educational support services (tax exempt)

Tax exempt receipts from sales of miscellaneous schools and instruction (tax exempt)

Tax exempt receipts from sales of other technical and trade schools (tax exempt)

Tax exempt receipts from sales of professional and management development schools (tax exempt)

Testing laboratories

Ship and boat building and repair, nonrecreational

Boat building inventory change

Boat building other miscellaneous receipts

Boat building, nsk, total

Hovercraft

Inboard cabin cruisers, including commercial and military (except sailboats and lifeboats)

Inboard motorboats, including commercial and military (except sailboats and lifeboats), nsk

Military self-propelled ships (including combat ships, troop transport vessels, fleet auxiliaries, and service craft), new construction

Nonmilitary self-propelled ferryboats, new construction

Nonpropelled ships, new construction

Other inboard motorboats (including houseboats)

Other nonmilitary ships (including container and trailer ships, dry bulk carriers, and tankers)

Outboard motorboats, including commercial and military (except sailboats and lifeboats)

Sailboats, all sizes (excluding military and commercial)

Self-propelled nonmilitary commercial fishing trawlers and vessels, tugboats, and support vessels for offshore drilling and mining

Self-propelled ships, nonmilitary, new construction, nsk

Ship building and repairing inventory change

Ship building and repairing other miscellaneous receipts

Tourism and recreation, coastal and offshore

Air transportation, passenger transportation – domestic

Air transportation, passenger transportation – international

Alarm clocks, household clocks, household timing mechanisms

Alaska ferries

Alcoholic beverage charges of drinking places

Alcoholic beverage charges of full-service restaurants

Alcoholic beverages of hotels and motels (except casino hotels)

Alcoholic beverages of limited-service eating places

All other amusement and recreation (taxable)

All other chemical product and preparation manufacturing inventory change

All other commercial, geophysical, meteorological and general purpose instruments

All other consumer, institutional, and commercial plastics products (excluding foam)

All other consumer, institutional, and commercial plastics products (excluding foam), inventory change

All other food manufacturing inventory change

All other miscellaneous engine equipment

All other miscellaneous food products, nsk, total

All other receipts from customers (hotels and motels)

All other transportation equipment manufacturing inventory change

All other travel arrangement and reservation services

All other traveler accommodation

Amtrak passenger receipts

Amusement parks and arcades (other)

Amusement parks and arcades (receipts)

Application service provisioning, website hosting, and other IT infrastructure provisioning services (includes collocation and streaming services)

Audio and video equipment manufacturing inventory change

Automobile and light truck boat trailers 26,000 lb. or less GVW

Automotive repair and maintenance, except car washes

Awnings

Backpacks, daypacks

Bed and breakfast inns

Boat building inventory change

Boat building other miscellaneous receipts

Boat Building research and development

Boat building, nsk, total

Boat repair, recreational

Boats, all other types, except military and commercial, nsk

Bus charter service, except local

Camping and outdoor stamped and spun aluminum cooking equipment

Camping tents

Canoes and all other boats (excluding hovercrafts), nec

Carnival and amusement park equipment (ferris wheels, merry-go-rounds, etc.), excluding electric equipment, and coin-operated

Caterers – alcoholic beverages

Caterers – meals and nonalcoholic beverages

Chemical preparations, nec, nsk, including essential oils, waxes, waterproofing compounds and rubber processing preparations

Consumer audio and video equipment, including audio and video recorders and players (camcorders) and Power amplifiers, including preamplifiers

Convention and visitor bureaus

Creams, lotions, and oils, excluding shaving, hair, and deodorant

Cultural institutions – expenses

Cultural institutions – tax exempt receipts

Cultural institutions (taxable)

Cutlery, kitchen utensil, pot and pan manufacturing inventory change

Diesel, semidiesel, and dual-fuel engines (except automobile, highway truck, bus, and tank)

Digital cameras

Digital cameras, inventory change

Dried and dehydrated fruits (including freeze-dried)

Dried and dehydrated fruits, vegetables, and soups, nsk

Dried and dehydrated vegetables (including freeze-dried)

Expenses of sports and recreation instruction schools (tax exempt)

Eye and face protection equipment, inventory change

Eye and face protection equipment, including face shields, masks, and welding helmets

Fabricated sleeping bags

First aid, snake bite, and burn kits, including household and industrial kits

Fishing line and fish netting, commercial and recreational, manmade fiber

Fishing tackle and equipment

Food contractors - alcoholic beverages

Food services and drinking places (residual)

Fruit and vegetable canning, pickling, and drying inventory change

Guestroom or unit rentals of hotels and motels

Hand and edge tool manufacturing, nsk, total

Hand tool and saw blade manufacturing inventory change

Hand-operated hacksaws

Hosiery and sock mills inventory change

Household and institutional pesticides and chemicals

Household and institutional pesticides and chemicals, inventory change

Household cooking appliance manufacturing inventory change

Inboard cabin cruisers, including commercial and military (except sailboats and lifeboats)

Inboard motorboats, including commercial and military (except sailboats and lifeboats), nsk

Inboard runabouts

Inboard-outdrive boats, including commercial and military (except sailboat and lifeboat), nsk

Inboard-outdrive houseboats

Inboard-outdrive runabouts, fish boats, and other inboard-outdrive boats, etc.

Incandescent hand portable lighting equipment

Inland marine insurance (property and casualty)

Interurban and rural bus transportation

Kerosene, except jet fuel

Lighting fixture manufacturing inventory change

Limousine services

Loan origination fees and other fees on all other consumer loans of depository credit intermediation

Local charter bus service

Marine hardware (including shackles, rope sockets, tackle blocks, wire rope clips, clamps, and joiner hardware)

Marine paints, ship yacht and pleasure craft, new construction, refinish, and maintenance and off- shore facilities and shelf goods for both new construction and marine refinish and maintenance, excludes spar varnish

Meal and nonalcoholic beverage charges of full-service restaurants

Meals and non-alcoholic beverages at hotels/motels

Meals and nonalcoholic beverages of drinking places

Meals and nonalcoholic beverages of limited-service eating places

Men's and women's socks and hosiery

Men's and boys' cut and sew apparel manufacturing inventory change

Men's and boys' garments, >=50% plastic or rubber, including raincoats and rubber pants (except wet suits)

Mobile food services - food

Motor gasoline, including finished base stocks and blending agents

Municipal parking facilities

Nonelectric lighting fixtures and equipment, including lamps and lanterns using kerosene, gasoline, propane, butane, etc.

Nonfarm rents paid - residential owner occupied permanent site

Nonfarm residential rents paid - tenant occupied permanent site

Nonfarm residential rents paid - tenant occupied permanent site - rental of durables

Non-margin retail trade, gift, novelty, and souvenir stores

Nonmilitary self-propelled yachts, 65 feet or more in length (requires a professional crew as specified by the Coast Guard)

Nonupholstered wood household furniture manufacturing inventory change

Other footwear manufacturing

Other hand tools, (excluding edge tools) and screw jacks

Other hosiery and socks, nsk, inventory change

Other hosiery and socks, nsk, total

Other household nonupholstered furniture inventory change

Other inboard motorboats (including houseboats)

Other men's and boys' cut and sew outerwear

Other miscellaneous transportation equipment manufacturing, nsk, total

Other nonelectric toys, including parts

Other personal safety equipment, including life preservers (buoys, jackets, and vests) (except cork life preservers)

Other polyurethane foam products, including medical, clothing, fillers, diapers

Other purchased products packaged with dried and dehydrated ingredients

Other revenue of real estate agents and managers

Other stamped and spun stainless steel cooking and kitchen utensils, including commercial, hospital, and outdoor cooking

Other tents, including air supported structures and tension structures

Other transit and ground passenger transportation services

Other water sports equipment, inventory change

Other water sports equipment, excluding cameras, watches, shoes, and apparel

Other women's and girls' cut and sew outerwear

Outboard motorboats, including commercial and military (except sailboats and lifeboats)

Outdoor lighting equipment (including parts and accessories)

Parking lots and garages

Participant sports (taxable)

Participant sports expenses (tax-exempt)

Participant sports tax-exempt receipts

Parts and accessories other cooking equipment (sold separately)

Parts for automobile and light truck trailers and other transportation equipment

Passenger car rental (including vans and SUVs)

Petroleum refineries inventory change

Photographic and photocopying equipment manufacturing inventory change

Photographic and photocopying equipment manufacturing, nsk, total

Piston-type natural gas engines, including LPG (liquefied petroleum gas) engines (excluding gas turbines)

Porch, lawn, beach, and similar wood outdoor furniture

Porch, lawn, outdoor, and casual furniture, metal

Private passenger auto insurance (property and casualty)

Property management

Railroad transportation, passenger

Railroads, dining car receipts

Railroads, tips

Receipts of food contractors for meals and nonalcoholic beverages

Recreational and vacation camps

Recreational goods and equipment rental

Recreational vehicle parks and campgrounds

Rental and leasing of equipment at participant sports centers (taxable)

Rental of public rooms (e.g., conference/convention meeting rooms) of hotels and motels for short-term business use

Rental of public rooms (e.g., conference/convention meeting rooms) of hotels and motels for short-term social use

Retail trade margin, gift, novelty, and souvenir stores

Rope, cordage, and twine, nsk, total

Rope, cordage, twine, tire cord, and tire fabric mills inventory change

Rubber and plastics footwear

Sailboats, all sizes (excluding military and commercial)

Sails

Scenic and sightseeing transportation, land

Scenic and sightseeing transportation, other

Scenic and sightseeing transportation, water

Search, detection, navigation, and guidance systems

Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing inventory change

Ship repair, nonmilitary

Sports and recreation instruction (taxable)

State and local government highway toll revenues

State and local government passenger transit

Still cameras (hand-type cameras, process cameras for photoengraving and photolithography, and other still cameras)

Tarpaulins and other covers

Tarpaulins and other covers, inventory change

Tax exempt receipts from sales of sports and recreation instruction schools (tax exempt)

Taxicab Services which include taxi dispatchers

Tinware (including household, commercial, hospital, and outdoor cooking equipment)

Tips for meal and nonalcoholic beverage charges of drinking places

Tips for meal and nonalcoholic beverage charges of hotels and motels (except casino hotels)

Tips for meal and nonalcoholic beverage charges of limited-service eating places

Tips for meal and nonalcoholic beverage service of full-service restaurant

Tips on alcoholic beverage service of drinking places

Tips on alcoholic beverages of full-service restaurants

Tips on alcoholic beverages of hotels and motels

Tips on alcoholic beverages of limited-services eating places

Toilet preparation manufacturing inventory change

Tour operators

Towels and washcloths

Transportation equipment, nec, including all-terrain vehicles, nsk

Travel agencies

Travelers' insurance (property and casualty)

Truck rental

Urban transit systems

Urethane and other foam product (except polystyrene) manufacturing inventory change

Used pleasure boats

Used sporting goods

Utility trailer and RV rental

Vacuum and insulated bottles, jugs, and chests (except those made principally of foam plastics) and other sheet metal

Vacuum and insulated bottles, jugs, and chests (except those made principally of foam plastics) and other sheet metal, inventory change

Watch, clock, and parts manufacturing inventory change

Watchcases, movements and modules (including watch parts)

Watches

Water sports equipment

Women's and girls' cut and sew apparel manufacturing inventory change

Women's and girls' garments, >=50% plastic or rubber, including raincoats and rubber pants (except wet suits)

Transportation and warehousing, marine

Farm product warehousing and storage

Freight forwarding

General warehousing and storage

International freight, water

Marine cargo handling

Navigational services to shipping

Other support activities for water transportation

Port and harbor operations

Refrigerated warehousing and storage

Water freight, margin

Water passenger transportation, Coastal and Great Lakes

Water passenger transportation, deep sea

Utilities, coastal

Electric power generation

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