

# Knowing NAPCS, the North American PRODUCT Classification System: Its Origin, Structure, Uses, and Limitations

Beyond the Numbers 2023,  
Federal Reserve at St. Louis, MO

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Opinions are my own



Thanks to **Bobray Bordelon** and **Kenneth W. Fishbein** for reviewing and **Fay Dorsett** and others in the Census Bureau for their insights and **Lauinger Library** for Research Leave

**Raise a Glass to NAPCS**

*Computers in Libraries*  
November 2023, page 35





# AGENDA



01.

## Origin

Starts in 2017

02.

## Structure

Industry (NAICS)  
Product (Trilateral NAPCS)  
Economic Census (NAPCS-based)

03.

## Uses

Highlights from the 2017  
Economic Census

04.

## Limitations

What's its Line?



# 01. Origins



# In the Beginning

Standard Industry  
Classification (SIC)

**Pre-1997**

Economic Census

NEW North American  
**Industry**  
Classification System

**1997**

Revenue Lines, Receipt Lines,  
Merchandise Line Sales,  
Source of Revenue, Source of Receipts,  
Commodity Line Sales, and Product Lines

NEW North American  
**Product**  
Classification System

**2017**

Pronounced náps  
Products of different NAICS  
Geography: U.S. and States

# Uses

- Identifying, defining, and classifying products (goods & services) produced at the industry, national, and international levels,
- Coordinating the products identified in national accounts programs (including I-O, personal consumption, business expenditures, and productivity measurement) with those used in price measurement programs,
- Monitoring the type and value of products exchanged in international trade,
- Negotiating trade agreements, and
- Facilitating research in the areas of market share, trends and shifts in consumer demand, strategic expansion, and structural change in the economy.



# Who decides



## Mission

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Canada  
Mexico  
United States  
U.S. Economic Classification Policy Committee  
(ECPC)  
Revised with NAICS



## Vision

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What else is out there:  
Harmonized Tariff- Goods  
Central Product Classification (CPC)-  
Industry-of-origin and not detailed  
Best Practices of UNSD



## Values

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Regardless of its industry of origin  
Demand-based/product-oriented  
Their principal use and relationship  
to each other

# How to Structure NAPCS?

- Goods
  - Food
  - Clothing
- Services
  - Food services
  - Clothing services
- Trade
  - Trade of food and food services
  - Trade of clothing and clothing services
  - Trade of transportation goods and services



- Food
  - Food goods
  - Food services
  - Trade of food and food services
- Clothing
  - Clothing goods
  - Clothing services
  - Trade of clothing and clothing services





# 02. Structure



2017 Industry	NAICS	Trilateral NAPCS	NAPCS-Based	NAPCS define
		11101130104		Grapes
Grape vineyards	111332			
Wineries	312130	11101260107	2004225000	Manufacturing of wines, white, red, and rose grape, other fruit and berry, 14 percent or less alcohol content
Wineries	312130	11101260107	2004225003	Manufacturing of wines, white grape, 14 percent or less alcohol content
Wineries	312130	11101260107	2004225006	Manufacturing of wines, red grape, 14 percent or less alcohol content
Wineries	312130	11101260107	2004225009	Manufacturing of wines, rose grape and other fruit and berry, 14 percent or less alcohol content
Wineries	312130	11101260107	2004250000	Manufacturing of wines, dessert, effervescent, and wine coolers
Wineries	312130	11101260107	2004250003	Manufacturing of wines, dessert, excluding specialties
Wineries	312130	11101260107	2004250006	Manufacturing of wines, effervescent, including sparkling (naturally and artificially carbonated), wine coolers
Wineries	312130	11101260107	2004275000	Manufacturing of all other wines, brandy, and brandy spirits
Wineries	312130	11101260107	2004275006	Manufacturing of all other wines, brandy, and brandy spirits, including vermouth, nonalcoholic wines, other specialty wines, and applejack

**Note: NAICS (searchable) 6 digits,**

**Trilateral NAPCS (HTML) 11 digits,**

**NAPCS-Based (Excel) 10 digits**

# North American Product Classification System

- Home
- NAICS History
- NAICS Structure
- NAICS Conformance
- NAICS

## Introduction to NAPCS

The North American Product Classification System (NAPCS) is a comprehensive industry-of-origin based but can be linked to the NAICS industry structure, (b) classification of service products across international classification systems, "Overview of NAPCS Objectives, Guidance, and Implementation Strategy and Sections A through C of that paper define the purposes of NAPCS and the open Questions about NAPCS under the following tab.

[View more](#)

2017 NAPCS Structure [\[XLSX 257KB\]](#)

2022 NAPCS Structure [\[XLSX 83KB\]](#)

2017 to 2022 NAPCS Concordance [\[XLSX 79KB\]](#)

2017 to 2022 NAPCS Concordance [\[XLSX 79KB\]](#)

2017 NAPCS Definitions [\[XLSX 725KB\]](#)

For definitions only  
<https://www.census.gov/naics/napcs/>

<https://www.census.gov/programs-surveys/economic-census/year/2022/guidance/understanding-napcs.html>

[https://www2.census.gov/programs-surveys/economic-census/technical-documentation/napcs/2022\\_NAPCS\\_Triilateral\\_Product\\_Code\\_to\\_NAPCS-Based\\_Collection\\_Code\\_FINAL\\_050.xlsx](https://www2.census.gov/programs-surveys/economic-census/technical-documentation/napcs/2022_NAPCS_Triilateral_Product_Code_to_NAPCS-Based_Collection_Code_FINAL_050.xlsx)

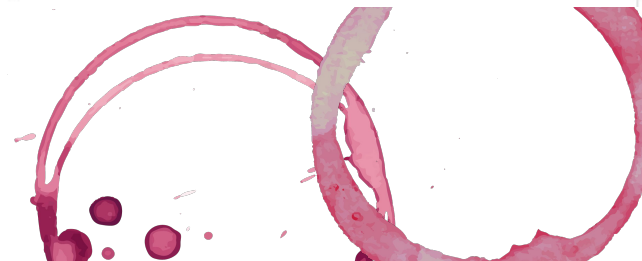
2017 Industry	NAICS	Trilateral NAPCS	NAPCS-Based	NAPCS define
Alcoholic beverage merchant wholesalers	4248	11102010110	4000400000	Wholesaling services for alcoholic beverages
Wine and Distilled Alcoholic Beverage Wholes	424820	11102010110	4000400003	Wholesale sales of wine
Wine Making supplies	453998	11103010112	5000300000	Retail sales of alcoholic beverages (part of misc. retail)
Services for retailing alcoholic beverages	445310	11103010112	5000300000	Retailing services for alcoholic beverages
Beer, Wine, and Liquor Retailers	445310	11103010112	5000300000	Retail sales of alcoholic beverages
Beer, Wine, and Liquor Retailers	445310	11103010112	5000300006	Retail sales of wine

**Note: Under NAPCS-Based**  
**Broad Line - ends in 0**  
**Detailed Line- ends in 1-9**  
**Trilaterals=Board Line or sum of multiple Board Lines**  
**Board Line or sum of Detailed Line**

In 2022: 3,518 broad lines and 3,716 detail lines

2017 Industry	NAICS	Trilateral NAPCS	NAPCS-Based	NAPCS define
Drinking Places	722410	11201010102	7000050000	Alcoholic beverages prepared and served or dispensed for immediate consumption (in opened containers or glasses). Preparation includes opening, drawing, mixing, shaking, or pouring. Beverages may be served at a bar or a table.
Wine bar	722410	11201010102	7000050003	Wine and wine drinks, prepared and served or dispensed for immediate consumption
Mobile food services	722330	11201010102	7000050003	Wine and wine drinks, prepared and served or dispensed for immediate consumption
Full-service restaurants	722511	11201010102	7000050003	Wine and wine drinks, prepared and served or dispensed for immediate consumption
Limited-service restaurants	722513	11201010102	7000050003	Wine and wine drinks, prepared and served or dispensed for immediate consumption
Cafeterias, grill buffets, and buffets	722514	11201010102	7000050003	Wine and wine drinks, prepared and served or dispensed for immediate consumption
Food service contractors	722310	11201010103	7000055009	Alcoholic beverages prepared for immediate consumption under long-term contract
Catering event	722320	11201010104	7000060000	Meals, snacks, other food items, and beverages, including alcoholic beverages, are prepared and served or dispensed for immediate consumption at unique events, where one person or entity contracts with the catering establishment and directly pays for the food and beverages. May include transportation of the food and beverages to a site provided by the customer, or may include provision of a dining facility (such as a banquet room) by the catering establishment.
"Cash Bar"	722320	11201010104	7000060015	Alcoholic beverages prepared for catered events

**Note: Same NAPCS-Based  
different NAICS**





## Pause

Take a deep breath

## Reflect

It will not be easy, let's  
hope Census improves

## Questions

Where are you confused?  
*Answered at the end*





# 03. USES

From [Data.Census.Gov](https://Data.Census.Gov)

# Uses

- Identifying, defining, and classifying products (goods & services) produced at the **industry**, **national**, and international levels,
- Coordinating the products identified in national accounts programs (including I-O, personal consumption, **business expenditures**, and **productivity measurement**) with those used in price measurement programs,
- Monitoring the type and value of products exchanged in international trade,
- Negotiating trade agreements, and
- **Facilitating research** in the areas of market share, trends and shifts in consumer demand, strategic expansion, and structural change in the economy.





# Products by Industry

2017 NAPCS collection code (NAPCS2017)	Meaning of NAPCS collection code (NAPCS2017_LABEL)	2017 NAICS code (NAICS2017)	Meaning of NAICS code (NAICS2017_LABEL)	Number of establishments (ESTAB)	Total sales, value of shipments, or revenue of establishments with the NAPCS collection code (\$1,000) (TVALLN)	Sales, value of shipments, or revenue of NAPCS collection code (\$1,000) (NAPCSDOL)	Industry contribution to total NAPCS collection code sales, value of shipments, or revenue (%) (NAICSALL_PCT)	Range indicating percent of total NAPCS collection code sales, value of shipments, or revenue imputed (NAPCSDOL_IMP)	Relative standard error of NAPCS collection code sales, value of shipments, or revenue (%) (NAPCSDOL_S)
2004225000	Manufacturing of wines, white, red, and rose grape,	312130	Wineries	3,402	19,509,582	17,351,307	99.9	40% to less than 50%	5.8
2004250000	Manufacturing of wines, dessert, effervescent, and	312130	Wineries	1,194	4,388,179	869,597 (s)	99.9	50% to less than 60%	52.6
7000050000	Alcoholic beverages, prepared and served or disper	312130	Wineries	902	2,749,414	281,083 (s)	0.3	60% to less than 70%	73.8
4000400000	Wholesale sales of wine and distilled liquor, includir	312130	Wineries	741	5,632,447	621,397	0.6	Less than 10%	30.4
7006475000	Rental of space for weddings, banquets, parties, an	312130	Wineries	349	1,132,664	111,959 (s)	7.6	60% to less than 70%	76.1
4005500000	Wholesale sales of other goods, not elsewhere clas	312130	Wineries	156	292,925	10,786 (s)	0	60% to less than 70%	62.8
5000075000	Retail sales of fresh fruit and vegetables	312130	Wineries	111	435,963	36,860 (s)	0	10% to less than 20%	61
2004300000	Manufacturing of bottled whiskey, gin, cordials, coct	312130	Wineries	52	183,240	4,434 (s)	0.1	40% to less than 50%	82.9
2004325000	Manufacturing of distilled whiskey, all other distilled	312130	Wineries	16	28,397	3,039 (s)	0.1	40% to less than 50%	42.7
2002250000	Manufacturing of fully refined fats and oils	312130	Wineries	11	76,520	890 (s)	0	20% to less than 30%	70.1
5000300000	Retail sales of alcoholic beverages	312130	Wineries	11	25,112	20,744	0	Less than 10%	0
2004000000	Manufacturing of canned and fresh fruit juices, nect	312130	Wineries	6	9,246	535	0	20% to less than 30%	16
2004175000	Manufacturing of beer and ale, barrels and kegs, all	312130	Wineries	3	2,598	271	0	10% to less than 20%	4.4
2051560000	Other food and beverage contract manufacturing se	312130	Wineries	S	S	A	D	S	S
2054100000	Other manufacturing revenue, not elsewhere classif	312130	Wineries	S	S	A	S	S	S

# How to read the tables

**(s) in the sales column:** means the number is an estimate that does not meet publication standards, RSE is 40% or more and take the data with a grain of salt

**60% -70% had to be imputed:** means that approximately 30% of establishment return on forms with data on it. Hot Deck Imputation (HDI) is their main method of calculating imputation.

**“D” symbol in any column:** means the data is withheld to avoid disclosing data for individual companies and the data are included in higher-level totals.

**“S” symbol in other columns:** means there is some activity, but the number is an estimate that does not meet publication standards because of high sampling variability, poor response quality, or other concerns about the estimated quality and should not be attributed to the U.S. Census Bureau.

**“A” in the sales line:** means the relative standard error is 100% or more and Census doesn't even want to estimate the number.

# Products by Industry



## Broad Line Only

No Detailed NAPCS



## U.S. Only

No State level data.  
Can be shown by  
2-6 digit NAICS.



## Great for product line analysis

Where do these Industries  
get their revenue?



## Imputation

Statistical methods to  
calculate a missing value



## Relative Standard Error (RSE)

Related to survey methods.  
Smaller numbers indicate  
more accurate is data.

# Industry by Product (data.census.gov)

Geographic Area Name (NAME)	Year (YEAR)	2017 NAICS code (NAICS2017)	Meaning of NAICS code (NAICS2017_LABEL)	2017 NAPCS collection code (NAPCS2017)	Meaning of NAPCS collection code (NAPCS2017_LABEL)	Meaning of Type of operation code (TYPOP_LABEL)	Meaning of Unit of measurement for the NAPCS collection code (UNITS_LABEL)	Number of establishments (ESTAB)	Quantity produced for the NAPCS collection code (NAPCSQPRD)	Quantity shipped for the NAPCS collection code (NAPCSQSHP)	Sales, value of shipments, or revenue of NAPCS collection code (\$1,000) (NAPCSDOL)	NAPCS collection code sales, value of shipments, or revenue as % of industry sales, value of shipments, or revenue (%) (LINEALL_PCT)	Range indicating percent of total NAPCS collection code sales, value of shipments, or revenue imputed (NAPCSDOL_MP)	Relative standard error of NAPCS collection code sales, value of shipments, or revenue (%) (NAPCSDOL_S)
United States	2017	722410	Drinking places	7000050003	Wine and wine d	All establishmen	X	34,253	X	X	2,793,262	11.7	60% to less than	3.6
United States	2017	722511	Full-service resta	7000050003	Wine and wine d	All establishmen	X	148,153	X	X	16,189,835	5.4	40% to less than	0.8
United States	2017	722320	Caterers	7000050003	Wine and wine d	All establishmen	X	1,296	X	X	79,066	0.7	50% to less than	21.2
United States	2017	722513	Limited-service r	7000050003	Wine and wine d	All establishmen	X	16,043	X	X	532,464	0.2	50% to less than	5.3
United States	2017	722514	Cafeterias, grill t	7000050003	Wine and wine d	All establishmen	X	383	X	X	15,791 (s)	0.2	20% to less than	48.2
United States	2017	722310	Food service cor	7000050003	Wine and wine d	All establishmen	X	106	X	X	32,583	0.1	20% to less than	17
United States	2017	722515	Snack and nona	7000050003	Wine and wine d	All establishmen	X	1,402	X	X	18,809	0	60% to less than	26
United States	2017	722330	Mobile food serv	7000050003	Wine and wine d	All establishmen	X	S	X	X	A	S	S	S





# Industries by Product (presented)

U.S. industries that prepared and served or dispensed wine and wine drinks for immediate consumption (NAPCS 7000050003), 2017

2017 NAICS	Meaning of NAICS code	Establishments	Revenue of Wine Service (\$1,000)	Wine revenue as % of NAICS sales revenue (%)	Relative standard error (%)	Revenue per est (\$1,000) (self calculated)
722310	Food service contractors	106	32,583	0.10	17	307.4
722511	Full-service restaurants	148,153	16,189,835	5.40	0.8	109.3
722410	Drinking places (alcoholic beverages)	34,253	2,793,262	11.70	3.6	81.5
722320	Caterers	1,296	79,066	0.70	21.2	61.0
722513	Limited-service restaurants	16,043	532,464	0.20	5.3	33.2
722515	Snack and nonalcoholic beverage bars	1,402	18,809	0.00	26	13.4
722514	Cafeterias, grill buffets, and buffets	383	15,791 (s)	0.20	48.2	0.0
722330	Mobile food services	S	A	S	S	S

U.S. Census Bureau. (2017). *EC1700NAPCSINDPRD*, <https://data.census.gov/table?n=N0600.00&napcs=7000050003>. U.S. Department of Commerce. Retrieved August 12, 2023, from <https://data.census.gov/>, with last column self-calculated.

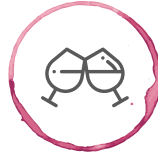


# Industry by Products



## Who uses Product

B2B, Sales,  
Distributors,  
Researchers



## State-Level Data

For most B2C  
industries



## Detailed NAPCS

Collected at 6 digit  
NAICS only



## Unique Columns

Mining, extracting, few  
agricultural-related  
industries: Quantity  
produced and shipped



## Customize table

Redundant info in  
title, added  
calculations, and  
sorted



## Clean up the Redundancy

15 columns listed,  
used 6 columns,  
now in table title

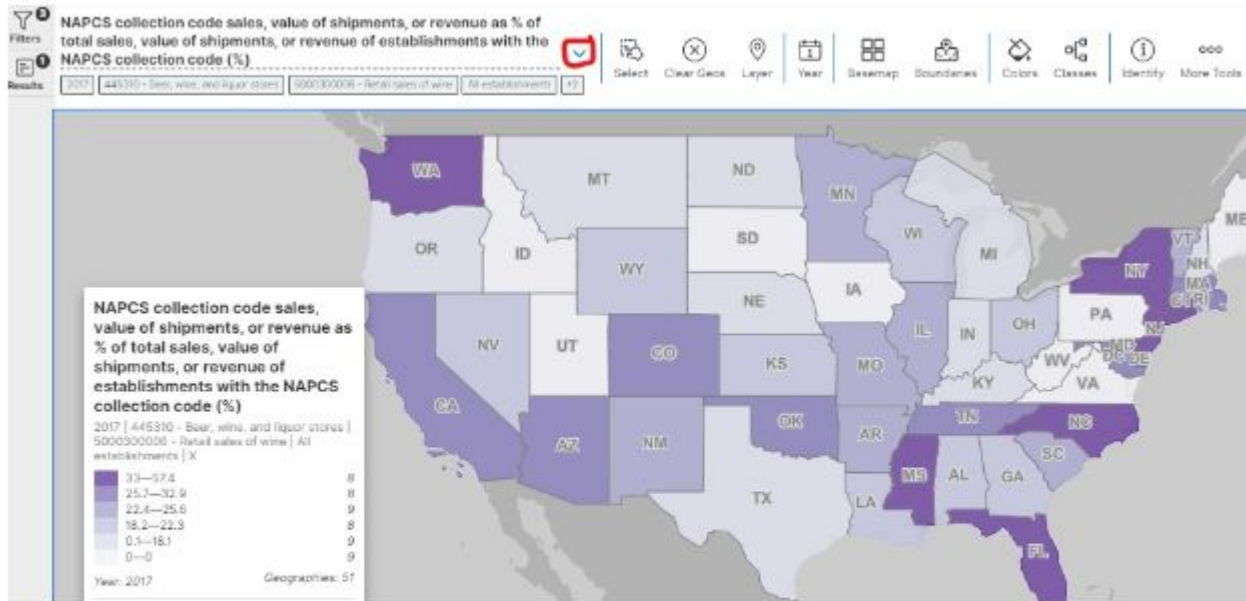


<b>Sector</b>	<b>U.S.</b>	<b>State</b>
Retail Trade (NAICS 44-45)	X	X
Educational Services (61)	X	X
Health Care and Social Assistance (62)	X	X
Arts, Entertainment, and Recreation (71)	X	X
Accommodation and Food Services (72)	X	X
Other Services (81)	X	X
All other NAICS Sectors	X	

# LOCATIONS

Find out how much liquor stores make by selling wine

Image 2: 2017 Continental U.S. Percentage of Wine Revenue in Liquor Store, by state



U.S. Census Bureau. (2017). *EC1700NAPCSINDPRD (map)*, Search: NAPCS: 5000300006, NAICS: 44531, Geo: All States. U.S. Department of Commerce. Retrieved August 14, 2023, from <https://data.census.gov/>





## More Wine Facts

People in Michigan don't buy their wine in liquor stores, but 93% of the stores do sell some wine, in 2017.

*Industry by Product:* Maine and North Carolina sell most of their wine in supermarkets.

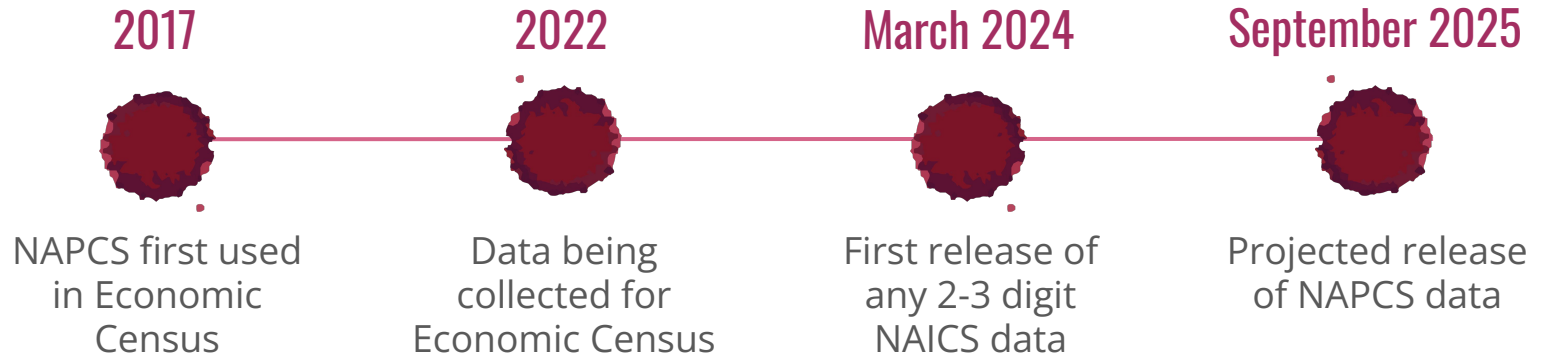
*Product By Industry:* there are 66 liquor stores in South Dakota and they sold more household paper and plastic products than wine in 2017.





**Sorry no time to show you  
how to get the data**

# Timeline





04.  
Limitations




## Remember

Uses NAPCS-based Codes, NOT NAPCS-Trilateral Code.  
NAPCS-based Broad Line map directly to NAPCS-Trilat.  
If you see (s) in sales data don't bet your business.  
You might be given a choice between Census & Survey.  
Mapping only works with *Industry by Product* data.  
*Product by Industry* you can search 2-6 digit NAICS.  
Let the data lead you to better questions.

## Not

All establishments got a NAPCS Questionnaire.  
Every establishments answered the questions.



# NAPCS In Economic Census

# Not included in data.census.gov

- Industries which are tax-exempt
  - Search “EC1700NAPCSINDPRDTAX”
  - Broad line only
- Basic field searching does not work
  - You have to open the full box to search

The screenshot shows the data.census.gov interface. At the top, there is a search bar with the text "Search" and a magnifying glass icon. Below the search bar, there are tabs for "All", "Tables", "Maps", and "Pages". The "Tables" tab is selected. On the left side, there is a "2 Filters" section with two active filters: "312130: Wineries" and "50000.00: All NAPCS Collection Co...". Below the filters is a "Clear all filters" button and a "Search for filter" input field. A sidebar menu on the left includes "Codes", "Geography", "Surveys", "Topics", and "Years". The main content area is titled "NAPCS Collection / Select NAPCS Collection" and contains a search bar for "Search NAPCS Collection". Below this, there is a list of checkboxes for different collection codes, with "All NAPCS Collection Codes" selected. The list includes: "All Broadline NAPCS Collection Codes", "All Detail Line NAPCS Collection Codes", "0000000000 - Total", "1000000000 - Mining products", "2000000000 - Manufacturing products", "3000000000 - Construction products", "4000000000 - Wholesale products", "5000000000 - Retail products", "6000000000 - Utilities and Waste Management and Remediation products", "7000000000 - Services products", "8000000000 - Tax-exempt and Non-operating Revenue products", and "9000000000 - All other products and services, not elsewhere classified". On the right side, there is a "3 Results" section with a "View: 10 | 25 | 50" dropdown and a "Download Table Data" link. The results list includes: "Economic Surveys AM1831NAPCS01 | Annual Survey of Manufactures: Industry-Product Analysis: Industry by Products for the U.S.: 2018 - 2021", "ECNSVY Annual Survey of Manufactures Annual Survey of Manufactures Value", "Economic Census EC1700NAPCSINDPRD | All Sectors: Industry by Products for the U.S. and States: 2017", "2017: ECN Core Statistics Economic Census", "Economic Census EC1700NAPCSPRDIND | All Sectors: Products by Industry for the U.S.: 2017", and "2017: ECN Core Statistics Economic Census".

# Remember about Economic Census



## Not in EC

Products and Services on military facilities;  
Most government run businesses;  
Non-employer businesses;  
Agricultural products;  
Households;  
Labor Unions and Similar Organization;  
Political Organizations;  
Funds, Trusts, and Other Financial Vehicles;  
Rail Transport; and  
Postal Service



## Everything in API

Does not offer any new or additional data fields beyond what you can get in [data.census.gov](https://data.census.gov).  
However, if you want to play around with the dataset in a flat file ...



## Microdata

Microdata is accessible only in the Federal Statistical Research Data Centers.



## NAPCS-based

There are NO 2022 NAPCS-based descriptions, yet

Most recent is 2017

<https://www.census.gov/data/developers/data-sets/economic-census.html>

## Percent of total broad product revenue withheld from publication in Economic Census, 2017

Sector (6-digit NAICS level)	Percent of total broad product sales, value of shipments, or revenue withheld from publication
21	4.90%
22	9.60%
23	2.60%
31-33	26.40%
42	12.50%
44-45	1.30%
48-49	12.50%
51	2.40%
52	15.90%
53	2.80%
54	3.30%
55	2.20%
56	0.60%
61	1.50%
62	0.60%
71	0.50%
72	0.00%
81	0.40%



# Takeaways



- 1) Brainstorm the business you are interested in. Create a value chain of suppliers and buyers.
- 2) Identify the Industries (North American Industry Classification System -NAICS) codes and the Product (North American Product Classification System -NAPCS) codes.
- 3) Use [data.census.gov](https://data.census.gov) to retrieve statistics for *Products by Industry* - ONE Industry (NAICS) to ALL Products (NAPCS) and for *Industry by Products* - ONE Product (NAPCS) to ALL Industries (NAICS).
- 4) *Industries by Product* data will provide state-level data for most consumer-based industries.
- 5) Read the data and start looking for stories that will put the data in context or provide more questions for your research.

# THANKS

Now can I take questions?

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# Industry by Products

2017 NAICS code	Meaning of NAICS code	2017 NAPCS collection code	Meaning of NAPCS collection code	Number of establishments	Revenue of NAPCS collection code (\$1,000)	NAPCS collection code sales, or revenue (%)	Range indicating percent of total NAPCS collection code revenue imputed	Relative standard error of NAPCS collection code revenue (%)
521110	central bank	000000000	Total	57	116,892,000	100.0	X	0.0
521110	Monetary authorities - central bank	7005542000	Cash handling and management services for business	38	588,238 (s)	0.5	40% to less than 50%	43.0
521110	Monetary authorities - central bank	7005545000	Support services for financial and commodity markets	7	28,854	0.0	Less than 10%	11.4
521110	Monetary authorities - central bank	7005546000	Automated clearing house (ACH) services	40	368,042 (s)	0.3	60% to less than 70%	61.5
521110	Monetary authorities - central bank	7005547000	Other products supporting financial services	37	240,219	0.2	20% to less than 30%	12.3
521110	Monetary authorities - central bank	7017475000	Regulation of credit markets	5	217 (s)	0.0	60% to less than 70%	79.2
521110	Monetary authorities - central bank	8000075000	Loans to financial businesses	41	83,120 (s)	0.1	40% to less than 50%	100.4
521110	Monetary authorities - central bank	8000150000	Trading securities and commodity contracts on own account	35	115,535,254	98.8	10% to less than 20%	0.3
521110	Monetary authorities - central bank	8000150003	Trading debt instruments on own account	35	93,261,074	79.8	Less than 10%	7.0
521110	Monetary authorities - central bank	8000150006	Trading equities on own account, including private equity	5	20,395,858 (s)	17.4	60% to less than 70%	79.4
521110	Monetary authorities - central bank	8000150012	Trading foreign currency (wholesale) on own account	35	1,868,262	1.6	10% to less than 20%	20.5
521110	Monetary authorities - central bank	8000150015	Trading other securities and commodity contracts on own account	13	16,569	0.0	10% to less than 20%	11.0
521110	Monetary authorities - central bank	9000000000	All other products and services, not elsewhere classified	33	48,056 (s)	0.0	Less than 10%	99.0

# Products by Industry

2017 NAPCS collection code	Meaning of NAPCS collection code	2017 NAICS code	Meaning of NAICS code	Number of establishments	Revenue of NAPCS collection code (\$1,000)	Industry contribution to total NAPCS collection code revenue (%)	Range indicating percent of total NAPCS collection code revenue imputed	Relative standard error of NAPCS collection code revenue (%)
7005542000	Cash handling and management services for business	521110	Monetary authorities - central bank	38	588,238 (s)	3.7	40% to less than 50%	43.0
7005545000	Support services for financial and commodity markets	521110	Monetary authorities - central bank	7	28,854	0.1	Less than 10%	11.4
7005546000	Automated clearing house (ACH) services	521110	Monetary authorities - central bank	40	368,042 (s)	7.4	60% to less than 70%	61.5
7005547000	Other products supporting financial services	521110	Monetary authorities - central bank	37	240,219	0.2	20% to less than 30%	12.3
7017475000	Regulation of credit markets	521110	Monetary authorities - central bank	5	217 (s)	100.0	60% to less than 70%	79.2
8000075000	Loans to financial businesses	521110	Monetary authorities - central bank	41	83,120 (s)	0.1	40% to less than 50%	100.4
8000150000	Trading securities and commodity contracts on own account	521110	Monetary authorities - central bank	35	115,535,254	31.0	10% to less than 20%	0.3
9000000000	All other products and services, not elsewhere classified	521110	Monetary authorities - central bank	33	48,056 (s)	0.0	Less than 10%	99.0

# How to read the tables

**(s) in the sales column:** means the number is an estimate that does not meet publication standards, RSE is 40% or more and take the data with a grain of salt

**60% -70% had to be imputed:** means that approximately 30% of establishment return on forms with data on it. Hot Deck Imputation (HDI) is their main method of calculating imputation.

**“D” symbol in any column:** means the data is withheld to avoid disclosing data for individual companies and the data are included in higher-level totals.

**“S” symbol in other columns:** means there is some activity, but the number is an estimate that does not meet publication standards because of high sampling variability, poor response quality, or other concerns about the estimated quality and should not be attributed to the U.S. Census Bureau.

**“A” in the sales line:** means the relative standard error is 100% or more and Census doesn't even want to estimate the number.