

Released: September 2021  
 Next MECS will be fielded in 2023.

**Table 9.1 Enclosed Floorspace and Number of Establishment Buildings, 2018;**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Floorspace and Buildings  
 Unit: Floorspace Square Footage and Building Counts

NAICS Code(a)	Subsector and Industry	Approximate Enclosed Floorspace of All Buildings Onsite (million sq ft)	Establishments(b) (counts)	Average Enclosed Floorspace per Establishment (sq ft)	Approximate Number of All Buildings Onsite (counts)	Average Number of Buildings Onsite per Establishment (counts)
<b>Total United States</b>						
311	Food	1,081	15,842	78,244.8	37,039	2.5
3112	Grain and Oilseed Milling	93	611	173,161.1	4,044	7.1
311221	Wet Corn Milling	14	52	269,057.5	1,078	20.7
31131	Sugar Manufacturing	27	70	402,404.0	698	10.6
3114	Fruit and Vegetable Preserving and Specialty Food	175	1,047	183,602.0	3,625	3.7
3115	Dairy Product	131	1,036	130,658.9	2,805	2.7
3116	Animal Slaughtering and Processing	181	1,842	110,055.3	5,099	3.0
312	Beverage and Tobacco Products	277	3,938	75,622.1	11,724	3.1
3121	Beverages	255	3,853	71,128.4	11,474	3.1
3122	Tobacco	22	85	273,280.7	250	3.1
313	Textile Mills	126	1,360	99,458.0	1,967	1.5
314	Textile Product Mills	112	4,116	30,538.2	3,654	1.0
315	Apparel	35	3,856	12,892.7	2,847	0.8
316	Leather and Allied Products	17	655	29,088.1	804	1.4
321	Wood Products	515	9,435	61,482.3	29,104	3.3
321113	Sawmills	117	1,787	74,783.5	8,790	5.3
3212	Veneer, Plywood, and Engineered Woods	85	1,083	90,774.3	3,063	3.0
321219	Reconstituted Wood Products	29	158	200,591.9	615	4.2
3219	Other Wood Products	301	6,286	52,865.5	15,786	2.7
322	Paper	590	3,009	223,238.6	10,016	3.7
322110	Pulp Mills	21	28	849,788.9	920	36.8
322121	Paper Mills, except Newsprint	107	156	773,929.6	2,918	21.0
322122	Newsprint Mills	7	11	614,904.2	117	10.6
322130	Paperboard Mills	57	143	459,827.5	2,515	20.0
323	Printing and Related Support	327	12,614	28,686.2	11,642	1.0
324	Petroleum and Coal Products	122	1,883	78,328.4	12,751	7.5
324110	Petroleum Refineries	68	136	546,893.5	7,408	56.7
324121	Asphalt Paving Mixture and Block	8	1,289	7,846.4	3,231	2.8
324122	Asphalt Shingle and Coating Materials	22	168	131,746.3	724	4.4
324191	Petroleum Lubricating Oil and Grease Products	20	211	112,577.3	712	4.1
324199	Other Petroleum and Coal Products	4	79	60,983.1	677	9.0
325	Chemicals	939	8,902	117,386.7	47,631	5.8
325110	Petrochemicals	6	66	100,844.2	1,164	17.6
325120	Industrial Gases	7	525	27,835.7	779	2.9
325180	Other Basic Inorganic Chemicals	55	501	120,501.0	5,502	11.8
325193	Ethyl Alcohol	25	207	133,179.9	1,830	9.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	7	61	121,662.7	1,347	22.8
325199	Other Basic Organic Chemicals	74	524	175,555.6	8,847	20.0
325211	Plastics Materials and Resins	103	813	139,232.6	5,784	7.9
325212	Synthetic Rubber	13	87	150,669.8	876	10.5
325220	Artificial and Synthetic Fibers and Filaments	24	99	255,764.6	504	5.3
325311	Nitrogenous Fertilizers	17	148	122,763.4	2,391	16.3
325312	Phosphatic Fertilizers	3	55	77,645.0	577	12.1
3254	Pharmaceuticals and Medicines	226	1,327	186,429.5	5,432	4.4
325412	Pharmaceutical Preparation	126	717	188,262.2	2,678	3.9
32592	Photographic Film, Paper, Plate, and Chemicals	40	108	377,146.3	616	5.8
326	Plastics and Rubber Products	844	8,317	108,548.2	14,289	1.7
327	Nonmetallic Mineral Products	487	12,035	49,801.4	25,082	2.4
327120	Clay Building Material and Refractories	58	415	153,960.9	1,693	4.2
327211	Flat Glass	26	60	437,216.7	201	3.4
327212	Other Pressed and Blown Glass and Glassware	22	164	140,009.8	512	3.2
327213	Glass Containers	28	57	502,912.2	289	5.1
327215	Glass Products from Purchased Glass	59	686	88,313.6	916	1.4
327310	Cements	14	187	93,310.1	1,768	9.7
327410	Lime	6	86	83,344.3	738	9.8
327420	Gypsum	28	148	208,774.4	506	3.8
327993	Mineral Wool	34	191	180,597.8	478	2.5
331	Primary Metals	602	3,226	202,492.0	14,453	4.8
331110	Iron and Steel Mills and Ferroalloys	216	390	594,156.5	3,865	10.3
3312	Steel Products from Purchased Steel	80	498	175,368.7	1,670	3.7
3313	Alumina and Aluminum	105	399	283,199.6	2,065	5.7
331314	Secondary Smelting and Alloying of Aluminum	13	109	121,693.7	397	3.8
331315	Aluminum Sheet, Plate and Foils	47	65	723,418.2	322	5.0
331318	Other Aluminum Rolling, Drawing and Extruding	35	191	190,211.4	432	2.5
3314	Nonferrous Metals, except Aluminum	81	651	138,618.5	3,200	5.2
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	14	107	139,399.7	897	8.6
3315	Foundries	120	1,288	100,188.6	3,653	3.0
331511	Iron Foundries	38	373	103,599.2	1,502	4.1
331523	Nonferrous Metal Die-Casting Foundries	27	257	110,152.1	467	1.9
331524	Aluminum Foundries, except Die-Casting	16	277	69,935.1	527	2.2
332	Fabricated Metal Products	1,530	37,949	43,875.9	52,819	1.5
333	Machinery	1,021	14,919	72,186.7	24,489	1.7
334	Computer and Electronic Products	416	6,646	67,171.0	8,790	1.5
334413	Semiconductors and Related Devices	81	344	249,890.7	1,018	3.2
335	Electrical Equip., Appliances, and Components	287	3,295	92,693.6	4,652	1.4
336	Transportation Equipment	1,169	7,103	176,604.1	26,510	3.9
336111	Automobiles	101	71	1,469,076.0	343	4.9
336112	Light Trucks and Utility Vehicles	93	69	1,400,434.6	318	4.7
3364	Aerospace Product and Parts	278	1,199	242,952.0	8,371	7.2
336411	Aircraft	94	347	291,716.9	2,037	6.3
337	Furniture and Related Products	415	8,347	53,378.7	11,329	1.4
339	Miscellaneous	359	13,679	29,175.3	15,917	1.2
	<b>Total</b>	<b>11,270</b>	<b>181,126</b>	<b>69,061.6</b>	<b>367,506</b>	<b>2.2</b>

(a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).

(b) The *Establishments (counts)* is the total number of manufacturing establishments in the frame minus the number of ineligible establishments for post stratification. It includes those units which reported floorspace, plus those units where floorspace was not ascertained. To obtain the number of reporting establishments for any NAICS, divide the entry in the *Approximate Enclosed Floorspace* by the corresponding entry in the *Average Enclosed Floorspace*. For example, in the *Total row*, (11,270 million square feet) divided by (69,061.6 square feet) equals 163,188, which is the number of reporting establishments (weighted) of the 181,126 total establishments.

\* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

NA=Not available.

Notes: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, 2018 Manufacturing Energy Consumption Survey.

*The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY21-312).*

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**RSE Table 9.1 Relative Standard Errors for Table 9.1;**

Unit: Percents.

NAICS Code(a)	Subsector and Industry	Approximate Enclosed Floorspace of All Buildings Onsite (million sq ft)	Establishments(b) (counts)	Average Enclosed Floorspace per Establishment (sq ft)	Approximate Number of All Buildings Onsite (counts)	Average Number of Buildings Onsite per Establishment (counts)
<b>Total United States</b>						
311	Food	5.9	0.0	6.6	8.7	8.3
3112	Grain and Oilseed Milling	4.8	0.0	7.2	3.9	6.3
311221	Wet Corn Milling	0.0	0.0	0.0	0.0	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	4.3	0.0	9.8	6.2	7.4
3115	Dairy Product	4.4	0.0	7.3	5.8	5.8
3116	Animal Slaughtering and Processing	5.2	0.0	7.7	8.3	8.7
312	Beverage and Tobacco Products	4.9	0.0	6.3	6.9	5.4
3121	Beverages	5.4	0.0	6.6	7.1	5.5
3122	Tobacco	0.0	0.0	0.0	0.0	0.0
313	Textile Mills	6.1	0.0	9.7	9.7	6.6
314	Textile Product Mills	15.8	0.0	21.1	17.4	8.9
315	Apparel	13.1	0.0	23.6	17.0	5.4
316	Leather and Allied Products	9.0	0.0	16.1	14.4	7.3
321	Wood Products	4.9	0.0	5.8	6.1	5.9
321113	Sawmills	7.9	0.0	7.6	4.7	4.8
3212	Veneer, Plywood, and Engineered Woods	3.9	0.0	7.7	7.2	6.2
321219	Reconstituted Wood Products	4.0	0.0	22.3	4.7	18.1
3219	Other Wood Products	7.7	0.0	8.7	10.7	10.0
322	Paper	7.2	0.0	7.1	3.4	6.7
322110	Pulp Mills	0.0	0.0	0.0	0.0	0.0
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0
322122	Newsprint Mills	0.0	0.0	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0
323	Printing and Related Support	8.6	0.0	8.8	7.7	5.6
324	Petroleum and Coal Products	1.9	0.0	3.5	1.4	2.8
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	6.4	0.0	5.1	5.0	3.7
324122	Asphalt Shingle and Coating Materials	8.0	0.0	5.8	6.5	6.8
324191	Petroleum Lubricating Oil and Grease Products	7.5	0.0	12.0	5.6	10.9
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	0.0	0.0
325	Chemicals	5.1	0.0	5.6	4.9	5.3
325110	Petrochemicals	0.0	0.0	0.0	0.0	0.0
325120	Industrial Gases	9.7	0.0	16.6	9.7	15.2
325180	Other Basic Inorganic Chemicals	8.9	0.0	10.6	3.5	9.5
325193	Ethyl Alcohol	2.2	0.0	3.6	2.5	3.5
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0	0.0	0.0
325199	Other Basic Organic Chemicals	5.6	0.0	5.3	16.2	14.7
325211	Plastics Materials and Resins	5.5	0.0	6.0	12.8	12.6
325212	Synthetic Rubber	0.0	0.0	0.0	0.0	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0	0.0	0.0
325311	Nitrogenous Fertilizers	45.4	0.0	5.7	43.4	13.1
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0	0.0
3254	Pharmaceuticals and Medicines	5.9	0.0	8.0	4.6	6.5
325412	Pharmaceutical Preparation	6.9	0.0	10.6	6.6	8.3
325992	Photographic Film, Paper, Plate, and Chemicals	23.5	0.0	12.3	1.2	20.7
326	Plastics and Rubber Products	8.1	0.0	8.1	7.8	6.7
327	Nonmetallic Mineral Products	7.2	0.0	8.1	6.6	5.4
327120	Clay Building Material and Refractories	11.1	0.0	9.2	6.4	6.7
327211	Flat Glass	0.0	0.0	0.0	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	7.8	0.0	18.3	10.1	12.3
327213	Glass Containers	0.0	0.0	0.0	0.0	0.0
327215	Glass Products from Purchased Glass	3.2	0.0	10.3	6.9	4.8
327310	Cements	0.8	0.0	20.9	2.8	14.6
327410	Lime	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	4.4	0.0	16.0	16.5	5.7
327993	Mineral Wool	7.1	0.0	15.3	8.4	11.3
331	Primary Metals	1.2	0.0	3.5	1.6	2.8
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	4.2	0.0	10.0	7.6	7.5
3313	Alumina and Aluminum	0.8	0.0	6.0	1.2	5.0
331314	Secondary Smelting and Alloying of Aluminum	2.6	0.0	14.3	5.2	14.2
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	0.0	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	2.1	0.0	9.7	3.0	5.4
3314	Nonferrous Metals, except Aluminum	4.3	0.0	9.7	3.0	8.3
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	3.0	0.0	22.6	3.6	21.9
3315	Foundries	4.3	0.0	7.1	4.7	4.9
331511	Iron Foundries	4.3	0.0	19.8	10.5	15.1
331523	Nonferrous Metal Die-Casting Foundries	3.4	0.0	5.5	5.8	5.0
331524	Aluminum Foundries, except Die-Casting	4.1	0.0	7.7	6.1	4.7
332	Fabricated Metal Products	12.0	0.0	11.8	7.4	6.4
333	Machinery	8.8	0.0	8.6	6.0	4.8
334	Computer and Electronic Products	9.0	0.0	10.2	8.9	7.3
334413	Semiconductors and Related Devices	6.1	0.0	13.1	14.3	14.1
335	Electrical Equip., Appliances, and Components	12.0	0.0	15.0	11.6	11.6
336	Transportation Equipment	5.4	0.0	7.3	7.1	6.7
336111	Automobiles	0.0	0.0	0.0	0.0	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0	0.0	0.0
3364	Aerospace Product and Parts	3.3	0.0	8.8	5.0	8.8
336411	Aircraft	3.5	0.0	21.1	9.1	16.6
337	Furniture and Related Products	9.6	0.0	10.6	8.5	6.4
339	Miscellaneous	11.3	0.0	11.2	9.8	8.3
	Total	2.3	0.0	2.5	1.9	1.8

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\* Estimate less than 0.5.

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X=Not defined because RSE corresponds to a data table value of zero.

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Notes: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, 2018 Manufacturing Energy Consumption Survey.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CDBRB-FY21-312).

