

Released: August 2025
Next MECS will be fielded in 2027

Table 2.1 Nonfuel (feedstock) use of combustible energy, 2022

Level: National and regional data
Row: NAICS codes
Column: Energy sources
Unit: Physical units or British thermal units (Btu)

NAICS code ^a	Subsector and industry	Total (trillion Btu)	Residual fuel oil (million barrels)	Distillate fuel oil ^b (million barrels)	Natural gas ^c (billion cubic feet)	HGL (excluding natural gasoline) ^d (million barrels)	Coal (million short tons)	Coke and breeze (million short tons)	Other ^e (trillion Btu)
Total United States									
311	Food	2	0	*	1	*	0	0	1
3112	Grain and Oilseed Milling	1	0	0	*	0	0	0	1
311221	Wet Corn Milling and Starch Manufacturing	*	0	0	0	0	0	0	*
31131	Sugar Manufacturing	*	0	*	0	0	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Food	*	0	*	*	*	0	0	*
3115	Dairy Product Manufacturing	*	0	0	*	0	0	0	*
3116	Animal Slaughtering and Processing	*	0	*	*	*	0	0	*
312	Beverage and Tobacco Products	*	0	*	0	*	0	0	*
3121	Beverages	*	0	*	0	*	0	0	*
3122	Tobacco	*	0	0	0	*	0	0	0
313	Textile Mills	0	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	*	0	0	0	0	0	0	*
321	Wood Products	1	0	*	*	*	0	0	*
321113	Sawmills	*	0	*	*	*	0	0	*
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	*	0	*	*	0	0	0	*
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0
3219	Other Wood Products	*	0	*	*	*	0	0	*
322	Paper	*	0	*	*	*	0	0	*
322110	Pulp Mills	*	0	0	0	0	0	0	*
322120	Paper Mills	*	0	0	0	0	0	0	*
322130	Paperboard Mills	*	0	*	0	*	0	0	*
323	Printing and Related Support	*	0	0	*	0	0	0	0
324	Petroleum and Coal Products	1,043	*	*	1	*	8	0	880
324110	Petroleum Refineries	0	0	0	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	576	*	*	1	*	0	0	574
324122	Asphalt Shingle and Coating Materials	227	0	0	0	*	0	0	227
324191	Petroleum Lubricating Oil and Grease Manufacturing	*	0	*	*	0	0	0	*
324199	All Other Petroleum and Coal Products Manufacturing	240	0	*	0	0	8	0	79
325	Chemicals	4,474	4	*	705	971	7	0	519
325110	Petrochemicals	1,888	0	*	*	514	*	0	307
325120	Industrial Gases	D	0	0	D	*	0	0	0
325180	Other Basic Inorganic Chemical Manufacturing	163	4	*	20	7	*	0	94
325193	Ethyl Alcohol	D	0	0	1	*	0	0	D
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	267	0	0	82	59	*	0	8
325199	All Other Basic Organic Chemical Manufacturing	435	0	*	104	81	1	0	21

325211	Plastics Materials and Resins	D	0	*	83	290	0	0	D
325212	Synthetic Rubber	10	0	*	*	1	0	0	8
325220	Artificial and Synthetic Fibers and Filaments	*	0	0	0	0	0	0	*
325311	Nitrogenous Fertilizers	D	0	0	330	*	0	0	D
325312	Phosphatic Fertilizers	114	0	0	1	0	5	0	0
3254	Pharmaceuticals and Medicines	*	0	*	*	*	*	0	*
325412	Pharmaceutical Preparation	*	0	*	*	*	0	0	*
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	*	0	*	0	*	0	0	*
326	Plastics and Rubber Products	Q	0	0	Q	*	0	0	Q
327	Nonmetallic Mineral Products	2	0	*	1	*	*	0	1
327120	Clay Building Material and Refractories	*	0	*	*	0	0	0	*
327211	Flat Glass	*	0	0	*	0	0	0	*
327212	Other Pressed and Blown Glass and Glassware	*	0	0	*	*	0	0	*
327213	Glass Containers	*	0	0	0	0	0	0	*
327215	Glass Products from Purchased Glass	*	0	*	*	0	0	0	*
327310	Cements	*	0	0	0	*	0	0	*
327410	Lime	*	0	0	0	0	0	0	*
327420	Gypsum	*	0	0	*	0	0	0	*
327993	Mineral Wool	*	0	*	0	0	0	0	0
331	Primary Metals	244	0	*	33	*	10	*	6
331110	Iron and Steel Mills and Ferroalloys	239	0	*	31	*	10	0	3
3312	Steel Products from Purchased Steel	*	0	*	*	0	0	0	*
3313	Alumina and Aluminum Production and Processing	4	0	*	*	0	0	0	3
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	*	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	*	*	0	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	*	0	0	*	0	0	0	*
3314	Nonferrous Metal (except Aluminum) Production and Processing	*	0	*	*	*	*	*	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	*	0	*	0	0	*	0	*
3315	Foundries	1	0	*	*	*	*	*	*
331511	Iron Foundries	*	0	0	*	*	*	0	*
331523	Nonferrous Metal Die-Casting Foundries	*	0	0	*	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	*	0	*	*	*	0	0	*
332	Fabricated Metal Products	Q	0	*	Q	*	0	0	Q
333	Machinery	4	0	*	4	*	0	0	*
334	Computer and Electronic Products	Q	0	*	0	*	0	0	Q
334413	Semiconductors and Related Devices	Q	0	0	0	*	0	0	Q
335	Electrical Equip., Appliances, and Components	*	0	*	0	*	0	0	*
336	Transportation Equipment	3	0	*	2	*	0	0	*
336110	Automobile and Light Duty Motor Vehicle Manufacturing	*	0	0	0	*	0	0	*
3364	Aerospace Product and Parts	3	0	0	2	*	0	0	*
336411	Aircraft	*	0	0	0	*	0	0	0
337	Furniture and Related Products	*	0	0	*	0	0	0	*
339	Miscellaneous	*	0	0	*	0	0	0	*
	Subtotal	5,892	4	1	751	972	24	*	1,521
	Miscellaneous Nonfuel Products ^f	499	0	0	0	0	0	0	499
	Total	6,391	4	1	751	972	24	*	2,020

Northeast Census Region

311	Food	*	0	0	*	0	0	0	*
3112	Grain and Oilseed Milling	0	0	0	0	0	0	0	0
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0	0	0	0	0

31131	Sugar Manufacturing	0	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0	0
3115	Dairy Product Manufacturing	*	0	0	0	0	0	0	*
3116	Animal Slaughtering and Processing	*	0	0	*	0	0	0	*
312	Beverage and Tobacco Products	0	0	0	0	0	0	0	0
3121	Beverages	0	0	0	0	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0
321	Wood Products	*	0	*	0	*	0	0	*
321113	Sawmills	*	0	*	0	*	0	0	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	*	0	*	0	0	0	0	0
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0
3219	Other Wood Products	*	0	*	0	*	0	0	*
322	Paper	*	0	0	0	0	0	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0
322120	Paper Mills	*	0	0	0	0	0	0	*
322130	Paperboard Mills	0	0	0	0	0	0	0	0
323	Printing and Related Support	*	0	0	*	0	0	0	0
324	Petroleum and Coal Products	143	0	*	*	0	0	0	143
324110	Petroleum Refineries	0	0	0	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	132	0	0	*	0	0	0	131
324122	Asphalt Shingle and Coating Materials	11	0	0	0	0	0	0	11
324191	Petroleum Lubricating Oil and Grease Manufacturing	0	0	0	0	0	0	0	0
324199	All Other Petroleum and Coal Products Manufacturing	*	0	*	0	0	0	0	0
325	Chemicals	25	0	*	22	*	0	0	2
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	*	0	0	0	*	0	0	0
325180	Other Basic Inorganic Chemical Manufacturing	Q	0	0	Q	0	0	0	*
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0	0	0	0	0	0	0	0
325199	All Other Basic Organic Chemical Manufacturing	18	0	0	17	*	0	0	*
325211	Plastics Materials and Resins	*	0	0	*	0	0	0	0
325212	Synthetic Rubber	*	0	0	*	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	*	*	*	0	0	0
325412	Pharmaceutical Preparation	*	0	*	*	0	0	0	0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	*	0	0	0	*	0	0	0
326	Plastics and Rubber Products	Q	0	0	*	*	0	0	*
327	Nonmetallic Mineral Products	*	0	*	*	*	0	0	*
327120	Clay Building Material and Refractories	*	0	*	0	0	0	0	*
327211	Flat Glass	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	0	0	*	*	0	0	*
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	0	0	*	0	0	0	0
327310	Cements	0	0	0	0	0	0	0	0
327410	Lime	0	0	0	0	0	0	0	0

327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0
331	Primary Metals	125	0	*	*	*	6	0	2
331110	Iron and Steel Mills and Ferroalloys	123	0	0	0	0	6	0	*
3312	Steel Products from Purchased Steel	*	0	0	*	0	0	0	*
3313	Alumina and Aluminum Production and Processing	2	0	0	*	0	0	0	2
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	0	*	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	*	0	0	*	0	0	0	*
3314	Nonferrous Metal (except Aluminum) Production and Processing	*	0	0	0	*	0	0	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0	0	0	0	0	0	0	0
3315	Foundries	*	0	*	0	*	0	0	*
331511	Iron Foundries	*	0	0	0	*	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	*	0	0	0	*	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	*	0	0	0	0	0
332	Fabricated Metal Products	*	0	*	0	0	0	0	*
333	Machinery	*	0	0	*	*	0	0	*
334	Computer and Electronic Products	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0
336	Transportation Equipment	*	0	0	*	0	0	0	*
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	0	0	*	0	0	0	*
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	*	0	0	*	0	0	0	0
339	Miscellaneous	*	0	0	0	0	0	0	*
	Total	296	0	*	23	*	6	0	147

Midwest Census Region

311	Food	*	0	*	*	*	0	0	*
3112	Grain and Oilseed Milling	*	0	0	*	0	0	0	*
311221	Wet Corn Milling and Starch Manufacturing	*	0	0	0	0	0	0	*
31131	Sugar Manufacturing	*	0	*	0	0	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Food	*	0	*	*	0	0	0	*
3115	Dairy Product Manufacturing	*	0	0	0	0	0	0	*
3116	Animal Slaughtering and Processing	*	0	0	0	0	0	0	*
312	Beverage and Tobacco Products	*	0	0	0	*	0	0	0
3121	Beverages	0	0	0	0	0	0	0	0
3122	Tobacco	*	0	0	0	*	0	0	0
313	Textile Mills	0	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	*	0	0	0	0	0	0	*
321	Wood Products	1	0	*	*	*	0	0	*
321113	Sawmills	*	0	*	*	0	0	0	*
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	*	0	0	*	0	0	0	*
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0
3219	Other Wood Products	*	0	*	0	*	0	0	*
322	Paper	*	0	0	*	*	0	0	*
322110	Pulp Mills	*	0	0	0	0	0	0	*
322120	Paper Mills	*	0	0	0	0	0	0	*

322130	Paperboard Mills	*	0	0	0	0	0	0	*
323	Printing and Related Support	*	0	0	*	0	0	0	0
324	Petroleum and Coal Products	434	*	*	*	*	6	0	302
324110	Petroleum Refineries	0	0	0	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	216	*	*	*	*	0	0	216
324122	Asphalt Shingle and Coating Materials	86	0	0	0	*	0	0	86
324191	Petroleum Lubricating Oil and Grease Manufacturing	*	0	0	0	0	0	0	*
324199	All Other Petroleum and Coal Products Manufacturing	132	0	*	0	0	6	0	0
325	Chemicals	383	*	*	104	39	5	0	32
325110	Petrochemicals	*	0	0	*	0	0	0	*
325120	Industrial Gases	4	0	0	4	0	0	0	0
325180	Other Basic Inorganic Chemical Manufacturing	3	*	*	*	0	0	0	*
325193	Ethyl Alcohol	D	0	0	0	*	0	0	D
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	1	0	0	0	0	*	0	0
325199	All Other Basic Organic Chemical Manufacturing	4	0	0	*	1	0	0	*
325211	Plastics Materials and Resins	123	0	*	*	38	0	0	*
325212	Synthetic Rubber	0	0	0	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	D	0	0	98	0	0	0	D
325312	Phosphatic Fertilizers	112	0	0	0	0	5	0	0
3254	Pharmaceuticals and Medicines	*	0	*	*	*	*	0	*
325412	Pharmaceutical Preparation	*	0	0	*	0	0	0	*
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	*	0	*	0	0	0	0	0
326	Plastics and Rubber Products	Q	0	0	Q	*	0	0	*
327	Nonmetallic Mineral Products	1	0	*	1	0	0	0	*
327120	Clay Building Material and Refractories	*	0	*	*	0	0	0	0
327211	Flat Glass	*	0	0	*	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0
327213	Glass Containers	*	0	0	0	0	0	0	*
327215	Glass Products from Purchased Glass	*	0	0	0	0	0	0	*
327310	Cements	0	0	0	0	0	0	0	0
327410	Lime	*	0	0	0	0	0	0	*
327420	Gypsum	*	0	0	*	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0
331	Primary Metals	87	0	*	11	*	4	0	1
331110	Iron and Steel Mills and Ferroalloys	86	0	0	11	*	4	0	1
3312	Steel Products from Purchased Steel	*	0	*	*	0	0	0	*
3313	Alumina and Aluminum Production and Processing	*	0	0	*	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	*	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	0	*	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	0	0	0	0	0	0	0	0
3314	Nonferrous Metal (except Aluminum) Production and Processing	*	0	*	*	*	0	0	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	*	0	0	0	0	0	0	*
3315	Foundries	*	0	0	*	*	*	0	*
331511	Iron Foundries	*	0	0	*	*	*	0	*
331523	Nonferrous Metal Die-Casting Foundries	*	0	0	*	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	*	0	0	*	*	0	0	*
332	Fabricated Metal Products	*	0	0	0	*	0	0	*
333	Machinery	4	0	0	4	*	0	0	*
334	Computer and Electronic Products	Q	0	*	0	0	0	0	Q
334413	Semiconductors and Related Devices	*	0	0	0	0	0	0	*

335	Electrical Equip., Appliances, and Components	*	0	0	0	0	0	0	*
336	Transportation Equipment	1	0	*	*	*	0	0	*
336110	Automobile and Light Duty Motor Vehicle Manufacturing	*	0	0	0	0	0	0	*
3364	Aerospace Product and Parts	1	0	0	*	*	0	0	*
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	*	0	0	0	0	0	0	*
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	1,010	*	*	123	39	15	0	433

South Census Region

311	Food	1	0	*	1	*	0	0	1
3112	Grain and Oilseed Milling	1	0	0	*	0	0	0	1
311221	Wet Corn Milling and Starch Manufacturing	*	0	0	0	0	0	0	*
31131	Sugar Manufacturing	0	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	0	0	*	0	0	0	*
3115	Dairy Product Manufacturing	*	0	0	*	0	0	0	0
3116	Animal Slaughtering and Processing	*	0	*	0	*	0	0	*
312	Beverage and Tobacco Products	*	0	0	0	*	0	0	0
3121	Beverages	*	0	0	0	*	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0
321	Wood Products	*	0	*	*	*	0	0	*
321113	Sawmills	*	0	*	0	0	0	0	*
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0	0	0	0	0	0	0	0
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0
3219	Other Wood Products	*	0	0	*	0	0	0	*
322	Paper	*	0	*	0	*	0	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0
322120	Paper Mills	*	0	0	0	0	0	0	*
322130	Paperboard Mills	*	0	*	0	*	0	0	*
323	Printing and Related Support	*	0	0	*	0	0	0	0
324	Petroleum and Coal Products	374	0	*	*	*	1	0	344
324110	Petroleum Refineries	0	0	0	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	159	0	*	*	*	0	0	158
324122	Asphalt Shingle and Coating Materials	106	0	0	0	0	0	0	106
324191	Petroleum Lubricating Oil and Grease Manufacturing	*	0	*	*	0	0	0	*
324199	All Other Petroleum and Coal Products Manufacturing	109	0	0	0	0	1	0	79
325	Chemicals	4,033	3	*	559	932	1	0	479
325110	Petrochemicals	1,888	0	*	0	514	*	0	307
325120	Industrial Gases	D	0	0	D	*	0	0	0
325180	Other Basic Inorganic Chemical Manufacturing	152	3	*	14	7	*	0	93
325193	Ethyl Alcohol	*	0	0	0	0	0	0	*
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	260	0	0	82	59	*	0	8
325199	All Other Basic Organic Chemical Manufacturing	413	0	*	86	80	1	0	21
325211	Plastics Materials and Resins	D	0	0	82	252	0	0	D
325212	Synthetic Rubber	10	0	*	*	1	0	0	8
325220	Artificial and Synthetic Fibers and Filaments	*	0	0	0	0	0	0	*
325311	Nitrogenous Fertilizers	242	0	0	233	0	0	0	*

325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	0	0	*	0	0	*
325412	Pharmaceutical Preparation	*	0	0	0	*	0	0	*
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	Q	0	0	0	*	0	0	Q
327	Nonmetallic Mineral Products	*	0	*	*	*	*	0	*
327120	Clay Building Material and Refractories	*	0	0	0	0	0	0	*
327211	Flat Glass	*	0	0	0	0	0	0	*
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0
327213	Glass Containers	*	0	0	0	0	0	0	*
327215	Glass Products from Purchased Glass	*	0	*	*	0	0	0	*
327310	Cements	*	0	0	0	*	0	0	*
327410	Lime	0	0	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0
331	Primary Metals	30	0	*	21	0	*	*	3
331110	Iron and Steel Mills and Ferroalloys	28	0	*	21	0	*	0	2
3312	Steel Products from Purchased Steel	*	0	0	0	0	0	0	*
3313	Alumina and Aluminum Production and Processing	1	0	*	*	0	0	0	1
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	*	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	*	*	0	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	*	0	0	*	0	0	0	*
3314	Nonferrous Metal (except Aluminum) Production and Processing	*	0	0	0	0	0	*	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0	0	0	0	0	0	0	0
3315	Foundries	*	0	0	*	0	*	*	*
331511	Iron Foundries	*	0	0	*	0	*	0	*
331523	Nonferrous Metal Die-Casting Foundries	*	0	0	0	0	0	0	*
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	Q	0	0	Q	*	0	0	Q
333	Machinery	*	0	*	*	0	0	0	*
334	Computer and Electronic Products	*	0	0	0	*	0	0	*
334413	Semiconductors and Related Devices	*	0	0	0	*	0	0	*
335	Electrical Equip., Appliances, and Components	*	0	*	0	*	0	0	*
336	Transportation Equipment	*	0	0	*	*	0	0	*
336110	Automobile and Light Duty Motor Vehicle Manufacturing	*	0	0	0	*	0	0	*
3364	Aerospace Product and Parts	*	0	0	*	*	0	0	*
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	*	0	0	0	0	0	0	*
339	Miscellaneous	*	0	0	*	0	0	0	*
	Total	4,454	3	*	583	932	2	*	840

West Census Region

311	Food	*	0	*	*	*	0	0	*
3112	Grain and Oilseed Milling	*	0	0	0	0	0	0	*
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	0	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	0	*	0	*	0	0	*
3115	Dairy Product Manufacturing	*	0	0	0	0	0	0	*
3116	Animal Slaughtering and Processing	*	0	0	*	0	0	0	*
312	Beverage and Tobacco Products	*	0	*	0	*	0	0	*
3121	Beverages	*	0	*	0	*	0	0	*

3122	Tobacco	0	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0
321	Wood Products	*	0	*	*	*	0	0	*
321113	Sawmills	*	0	0	0	*	0	0	*
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	*	0	*	*	0	0	0	*
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0
3219	Other Wood Products	*	0	*	0	0	0	0	0
322	Paper	*	0	0	0	0	0	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0
322120	Paper Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	*	0	0	0	0	0	0	*
323	Printing and Related Support	*	0	0	*	0	0	0	0
324	Petroleum and Coal Products	92	0	0	*	0	0	0	92
324110	Petroleum Refineries	0	0	0	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	69	0	0	*	0	0	0	69
324122	Asphalt Shingle and Coating Materials	24	0	0	0	0	0	0	24
324191	Petroleum Lubricating Oil and Grease Manufacturing	0	0	0	0	0	0	0	0
324199	All Other Petroleum and Coal Products Manufacturing	0	0	0	0	0	0	0	0
325	Chemicals	34	0	*	20	*	*	0	Q
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	17	0	0	17	0	0	0	0
325180	Other Basic Inorganic Chemical Manufacturing	3	0	*	1	0	0	0	1
325193	Ethyl Alcohol	1	0	0	1	0	0	0	1
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	6	0	0	0	0	*	0	0
325199	All Other Basic Organic Chemical Manufacturing	*	0	0	*	*	0	0	0
325211	Plastics Materials and Resins	*	0	0	*	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	1	0	0	*	*	0	0	*
325312	Phosphatic Fertilizers	1	0	0	1	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	*	*	*	0	0	*
325412	Pharmaceutical Preparation	*	0	*	*	0	0	0	0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	*	0	0	0	0	0	0	*
326	Plastics and Rubber Products	*	0	0	*	0	0	0	*
327	Nonmetallic Mineral Products	1	0	*	*	*	0	0	1
327120	Clay Building Material and Refractories	*	0	0	0	0	0	0	*
327211	Flat Glass	*	0	0	*	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0
327310	Cements	0	0	0	0	0	0	0	0
327410	Lime	0	0	0	0	0	0	0	0
327420	Gypsum	*	0	0	0	0	0	0	*
327993	Mineral Wool	*	0	*	0	0	0	0	0
331	Primary Metals	1	0	*	0	*	*	0	1
331110	Iron and Steel Mills and Ferroalloys	1	0	0	0	0	*	0	1
3312	Steel Products from Purchased Steel	*	0	0	0	0	0	0	*
3313	Alumina and Aluminum Production and Processing	*	0	0	0	0	0	0	*

331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	*	0	0	0	0	0	0	*
3314	Nonferrous Metal (except Aluminum) Production and Processing	*	0	*	0	*	*	0	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	*	0	*	0	0	*	0	0
3315	Foundries	*	0	0	0	*	0	0	*
331511	Iron Foundries	0	0	0	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	*	0	0	0	0	0	0	*
331524	Aluminum Foundries, except Die-Casting	*	0	0	0	*	0	0	0
332	Fabricated Metal Products	*	0	0	*	*	0	0	*
333	Machinery	*	0	0	*	*	0	0	0
334	Computer and Electronic Products	Q	0	0	0	0	0	0	Q
334413	Semiconductors and Related Devices	Q	0	0	0	0	0	0	Q
335	Electrical Equip., Appliances, and Components	*	0	0	0	0	0	0	*
336	Transportation Equipment	2	0	0	2	*	0	0	*
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	2	0	0	2	*	0	0	*
336411	Aircraft	*	0	0	0	*	0	0	0
337	Furniture and Related Products	*	0	0	*	0	0	0	0
339	Miscellaneous	*	0	0	*	0	0	0	*
	Total	133	0	*	23	*	*	0	101

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2022 Manufacturing Energy Consumption Survey*, and Office of Energy Production, Conversion & Delivery, Form EIA-810, *Monthly Refinery Report for 2022*

Notes: Totals may not equal sum of components because of independent rounding. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy for heat and power and as feedstock or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; wood chips, bark, and wood waste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

^a The Bureau of the Census classifies establishments using the 2022 North American Industry Classification System (NAICS).

^b *Distillate fuel oil* includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

^c *Natural gas* includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

^d Hydrocarbon Gas Liquids (*HGL*) include ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas liquids (NGL).

^e *Other* includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power or as feedstock/raw material inputs. See also Footnote *f*.

^f Previously, the *Manufacturing Energy Consumption Survey* (MECS) had accounted for energy consumed in petroleum refineries by measuring their own fuel use, assuming shipments of fuel products would later be counted in the industries that use them, and assigning the heat equivalent of the nonfuel products to the petroleum refinery (for a more detailed explanation see, *Feedstock and Offsite-Produced Fuel at Petroleum Refineries*). Starting with the 2014 MECS, however, EIA began collecting asphalt and petrochemical feedstock data from establishments that use those nonfuel products. These data are included in the *Other* column. However, other *Miscellaneous Nonfuel Products* (that is, lubricants, solvents, waxes, and special naphthas) from refineries and used elsewhere throughout the manufacturing sector as energy are not collected on the MECS. An estimate of the *Miscellaneous Nonfuel Products* used in manufacturing was derived using EIA's [U.S. Product Supplied for Crude Oil and Petroleum Products](#) data.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because relative standard error (RSE) is greater than 50%.

NA=Not available.

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure protection of the confidential source data (Project No. 7504703, Disclosure Review Board (DRB) approval number: CDBRB-FY25-0054).

Released: August 2025
Next MECS will be fielded in 2027

RSE Table 2.1 Relative standard errors for table 2.1

Unit: Percentage

NAICS code ^a	Subsector and industry	Total	Residual fuel oil	Distillate fuel oil ^b	Natural gas ^c	HGL (excluding natural gasoline) ^d	Coal	Coke and breeze	Other ^e
Total United States									
311	Food	15.5	X	40.2	13.3	68.8	X	X	33.1
3112	Grain and Oilseed Milling	26.6	X	X	27.4	X	X	X	39.6
311221	Wet Corn Milling and Starch Manufacturing	0.0	X	X	X	X	X	X	0.0
31131	Sugar Manufacturing	0.0	X	0.0	X	X	X	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	13.7	X	91.2	5.3	0.0	X	X	47.3
3115	Dairy Product Manufacturing	89.4	X	X	91.4	X	X	X	17.1
3116	Animal Slaughtering and Processing	18.3	X	0.0	68.4	79.3	X	X	0.1
312	Beverage and Tobacco Products	81.3	X	57.9	X	81.4	X	X	83.7
3121	Beverages	81.5	X	57.9	X	81.6	X	X	83.7
3122	Tobacco	0.0	X	X	X	0.0	X	X	X
313	Textile Mills	X	X	X	X	X	X	X	X
314	Textile Product Mills	X	X	X	X	X	X	X	X
315	Apparel	X	X	X	X	X	X	X	X
316	Leather and Allied Products	28.1	X	X	X	X	X	X	28.1
321	Wood Products	2.6	X	1.9	26.2	16.8	X	X	52.3
321113	Sawmills	17.3	X	69.1	94.3	0.0	X	X	44.1
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	2.8	X	74.7	0.0	X	X	X	48.0
321219	Reconstituted Wood Products	X	X	X	X	X	X	X	X
3219	Other Wood Products	40.3	X	25.5	94.3	53.8	X	X	97.2
322	Paper	30.5	X	0.0	97.2	4.1	X	X	71.1
322110	Pulp Mills	0.0	X	X	X	X	X	X	0.0
322120	Paper Mills	0.0	X	X	X	X	X	X	0.0
322130	Paperboard Mills	0.0	X	0.0	X	0.0	X	X	0.0
323	Printing and Related Support	71.2	X	X	71.2	X	X	X	X
324	Petroleum and Coal Products	2.7	0.0	19.5	15.2	13.2	0.0	X	3.2
324110	Petroleum Refineries	X	X	X	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	4.5	0.0	25.5	15.2	39.3	X	X	4.5
324122	Asphalt Shingle and Coating Materials	5.2	X	X	X	0.0	X	X	5.2
324191	Petroleum Lubricating Oil and Grease Manufacturing	44.5	X	55.1	87.6	X	X	X	0.0
324199	All Other Petroleum and Coal Products Manufacturing	0.0	X	0.0	X	X	0.0	X	0.0
325	Chemicals	1.0	0.0	0.2	0.6	0.1	1.1	X	8.3
325110	Petrochemicals	0.0	X	0.0	0.0	0.0	0.0	X	0.0
325120	Industrial Gases	D	X	X	D	0.1	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	26.2	0.0	20.4	19.6	0.0	0.0	X	45.1
325193	Ethyl Alcohol	D	X	X	0.0	0.0	X	X	D
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	X	X	0.0	0.0	0.0	X	0.0
325199	All Other Basic Organic Chemical Manufacturing	0.6	X	0.1	1.1	0.1	0.1	X	11.8

325211	Plastics Materials and Resins	D	X	0.0	0.1	0.1	X	X	D
325212	Synthetic Rubber	0.0	X	0.0	0.0	0.0	X	X	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	X	X	X	X	X	X	0.0
325311	Nitrogenous Fertilizers	D	X	X	0.0	0.0	X	X	D
325312	Phosphatic Fertilizers	0.0	X	X	0.0	X	0.0	X	X
3254	Pharmaceuticals and Medicines	59.5	X	1.9	25.0	84.7	96.1	X	34.1
325412	Pharmaceutical Preparation	23.9	X	0.0	25.0	0.0	X	X	38.9
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	X	0.0	X	0.0	X	X	0.0
326	Plastics and Rubber Products	51.9	X	X	70.2	92.7	X	X	83.8
327	Nonmetallic Mineral Products	7.6	X	4.0	2.6	47.9	78.3	X	12.2
327120	Clay Building Material and Refractories	30.0	X	4.5	74.0	X	X	X	0.0
327211	Flat Glass	0.0	X	X	0.0	X	X	X	0.0
327212	Other Pressed and Blown Glass and Glassware	0.0	X	X	0.0	0.0	X	X	0.0
327213	Glass Containers	0.0	X	X	X	X	X	X	0.0
327215	Glass Products from Purchased Glass	16.9	X	0.0	20.1	X	X	X	0.1
327310	Cements	0.0	X	X	X	0.0	X	X	0.0
327410	Lime	0.0	X	X	X	X	X	X	0.0
327420	Gypsum	0.0	X	X	0.0	X	X	X	0.0
327993	Mineral Wool	0.0	X	0.0	X	X	X	X	X
331	Primary Metals	0.1	X	0.0	0.1	1.0	0.0	65.7	0.1
331110	Iron and Steel Mills and Ferroalloys	0.0	X	0.0	0.0	0.0	0.0	X	0.0
3312	Steel Products from Purchased Steel	0.1	X	0.0	0.1	X	X	X	0.2
3313	Alumina and Aluminum Production and Processing	0.1	X	0.0	0.1	X	X	X	0.1
331314	Secondary Smelting and Alloying of Aluminum	0.0	X	X	0.0	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.2	X	0.0	0.2	X	X	X	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	0.1	X	X	0.0	X	X	X	39.3
3314	Nonferrous Metal (except Aluminum) Production and Processing	14.4	X	0.0	0.0	3.2	0.0	72.2	8.3
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	X	0.0	X	X	0.0	X	0.0
3315	Foundries	1.8	X	0.0	2.0	1.0	0.0	0.0	5.4
331511	Iron Foundries	0.2	X	X	0.2	0.1	0.0	X	0.0
331523	Nonferrous Metal Die-Casting Foundries	0.1	X	X	0.0	37.3	X	X	0.0
331524	Aluminum Foundries, except Die-Casting	6.3	X	0.0	7.8	18.8	X	X	89.8
332	Fabricated Metal Products	86.5	X	99.5	80.3	99.4	X	X	95.9
333	Machinery	41.7	X	86.3	42.1	73.4	X	X	83.5
334	Computer and Electronic Products	52.9	X	68.8	X	0.0	X	X	53.0
334413	Semiconductors and Related Devices	64.5	X	X	X	0.0	X	X	67.4
335	Electrical Equip., Appliances, and Components	59.4	X	19.8	X	96.5	X	X	78.3
336	Transportation Equipment	16.3	X	98.0	17.5	22.0	X	X	24.5
336110	Automobile and Light Duty Motor Vehicle Manufacturing	13.4	X	X	X	0.0	X	X	13.5
3364	Aerospace Product and Parts	17.8	X	X	18.2	22.3	X	X	0.3
336411	Aircraft	0.0	X	X	X	0.0	X	X	X
337	Furniture and Related Products	81.8	X	X	90.4	X	X	X	77.5
339	Miscellaneous	68.0	X	X	69.7	X	X	X	55.3
	Subtotal	1.3	0.0	4.4	0.7	0.1	0.3	65.7	4.9
	Miscellaneous Nonfuel Products	0.0	X	X	X	X	X	X	0.0
	Total	1.3	0.0	4.4	0.7	0.1	0.3	65.7	4.9

Northeast Census Region

311	Food	59.0	X	X	68.4	X	X	X	0.0
3112	Grain and Oilseed Milling	X	X	X	X	X	X	X	X
311221	Wet Corn Milling and Starch Manufacturing	X	X	X	X	X	X	X	X
31131	Sugar Manufacturing	X	X	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	X	X	X	X	X	X	X	X
3115	Dairy Product Manufacturing	0.0	X	X	X	X	X	X	0.0
3116	Animal Slaughtering and Processing	59.1	X	X	68.4	X	X	X	0.0
312	Beverage and Tobacco Products	X	X	X	X	X	X	X	X
3121	Beverages	X	X	X	X	X	X	X	X
3122	Tobacco	X	X	X	X	X	X	X	X
313	Textile Mills	X	X	X	X	X	X	X	X
314	Textile Product Mills	X	X	X	X	X	X	X	X
315	Apparel	X	X	X	X	X	X	X	X
316	Leather and Allied Products	X	X	X	X	X	X	X	X
321	Wood Products	5.9	X	0.9	X	97.0	X	X	62.3
321113	Sawmills	0.0	X	0.0	X	0.0	X	X	X
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0.0	X	0.0	X	X	X	X	X
321219	Reconstituted Wood Products	X	X	X	X	X	X	X	X
3219	Other Wood Products	67.1	X	31.5	X	97.7	X	X	62.3
322	Paper	0.0	X	X	X	X	X	X	0.0
322110	Pulp Mills	X	X	X	X	X	X	X	X
322120	Paper Mills	0.0	X	X	X	X	X	X	0.0
322130	Paperboard Mills	X	X	X	X	X	X	X	X
323	Printing and Related Support	76.0	X	X	76.0	X	X	X	X
324	Petroleum and Coal Products	9.2	X	0.0	0.0	X	X	X	9.3
324110	Petroleum Refineries	X	X	X	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	10.0	X	X	0.0	X	X	X	10.1
324122	Asphalt Shingle and Coating Materials	0.0	X	X	X	X	X	X	0.0
324191	Petroleum Lubricating Oil and Grease Manufacturing	X	X	X	X	X	X	X	X
324199	All Other Petroleum and Coal Products Manufacturing	0.0	X	0.0	X	X	X	X	X
325	Chemicals	9.4	X	0.0	10.4	1.5	X	X	3.0
325110	Petrochemicals	X	X	X	X	X	X	X	X
325120	Industrial Gases	0.0	X	X	X	0.0	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	50.0	X	X	51.2	X	X	X	0.1
325193	Ethyl Alcohol	X	X	X	X	X	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	X	X	X	X	X	X	X
325199	All Other Basic Organic Chemical Manufacturing	0.1	X	X	0.0	0.0	X	X	0.5
325211	Plastics Materials and Resins	79.6	X	X	79.6	X	X	X	X
325212	Synthetic Rubber	0.0	X	X	0.0	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	X	X	X	X	X	X	X	X
325311	Nitrogenous Fertilizers	X	X	X	X	X	X	X	X
325312	Phosphatic Fertilizers	X	X	X	X	X	X	X	X
3254	Pharmaceuticals and Medicines	0.1	X	0.0	0.0	1.5	X	X	X
325412	Pharmaceutical Preparation	0.0	X	0.0	0.0	X	X	X	X
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	X	X	X	0.0	X	X	X
326	Plastics and Rubber Products	95.8	X	X	70.1	97.7	X	X	0.1
327	Nonmetallic Mineral Products	6.0	X	3.3	9.4	0.0	X	X	0.0
327120	Clay Building Material and Refractories	0.0	X	0.0	X	X	X	X	0.0

327211	Flat Glass	X	X	X	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	0.0	X	X	0.0	0.0	X	X	0.0
327213	Glass Containers	X	X	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	20.1	X	X	20.1	X	X	X	X
327310	Cements	X	X	X	X	X	X	X	X
327410	Lime	X	X	X	X	X	X	X	X
327420	Gypsum	X	X	X	X	X	X	X	X
327993	Mineral Wool	X	X	X	X	X	X	X	X
331	Primary Metals	0.1	X	0.0	0.1	0.1	0.0	X	0.2
331110	Iron and Steel Mills and Ferroalloys	0.0	X	X	X	X	0.0	X	0.0
3312	Steel Products from Purchased Steel	58.9	X	X	83.3	X	X	X	61.8
3313	Alumina and Aluminum Production and Processing	0.0	X	X	0.0	X	X	X	0.0
331314	Secondary Smelting and Alloying of Aluminum	X	X	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	X	X	0.0	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	0.0	X	X	0.0	X	X	X	0.0
3314	Nonferrous Metal (except Aluminum) Production and Processing	31.7	X	X	X	91.3	X	X	31.7
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	X	X	X	X	X	X	X	X
3315	Foundries	0.1	X	0.0	X	0.1	X	X	0.0
331511	Iron Foundries	0.0	X	X	X	0.0	X	X	X
331523	Nonferrous Metal Die-Casting Foundries	75.7	X	X	X	75.7	X	X	X
331524	Aluminum Foundries, except Die-Casting	0.0	X	0.0	X	X	X	X	X
332	Fabricated Metal Products	58.4	X	99.5	X	X	X	X	59.0
333	Machinery	71.9	X	X	72.2	0.0	X	X	42.6
334	Computer and Electronic Products	X	X	X	X	X	X	X	X
334413	Semiconductors and Related Devices	X	X	X	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	X	X	X	X	X	X	X	X
336	Transportation Equipment	69.0	X	X	0.0	X	X	X	89.6
336110	Automobile and Light Duty Motor Vehicle Manufacturing	X	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	0.0	X	X	0.0	X	X	X	0.0
336411	Aircraft	X	X	X	X	X	X	X	X
337	Furniture and Related Products	90.5	X	X	90.5	X	X	X	X
339	Miscellaneous	72.2	X	X	X	X	X	X	72.2
	Total	4.6	X	0.8	10.0	96.1	0.0	X	9.0

Midwest Census Region

311	Food	15.2	X	91.3	9.7	90.8	X	X	0.1
3112	Grain and Oilseed Milling	0.0	X	X	0.0	X	X	X	0.0
311221	Wet Corn Milling and Starch Manufacturing	0.0	X	X	X	X	X	X	0.0
31131	Sugar Manufacturing	0.0	X	0.0	X	X	X	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	66.3	X	91.3	70.6	X	X	X	76.1
3115	Dairy Product Manufacturing	50.9	X	X	X	X	X	X	50.9
3116	Animal Slaughtering and Processing	9.3	X	X	X	X	X	X	9.3
312	Beverage and Tobacco Products	0.0	X	X	X	0.0	X	X	X
3121	Beverages	X	X	X	X	X	X	X	X
3122	Tobacco	0.0	X	X	X	0.0	X	X	X
313	Textile Mills	X	X	X	X	X	X	X	X
314	Textile Product Mills	X	X	X	X	X	X	X	X
315	Apparel	X	X	X	X	X	X	X	X

316	Leather and Allied Products	28.1	X	X	X	X	X	X	28.1
321	Wood Products	3.6	X	3.0	0.1	64.3	X	X	97.5
321113	Sawmills	85.7	X	85.8	94.3	X	X	X	4.1
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0.0	X	X	0.0	X	X	X	0.0
321219	Reconstituted Wood Products	X	X	X	X	X	X	X	X
3219	Other Wood Products	60.5	X	0.0	X	64.3	X	X	98.2
322	Paper	78.3	X	X	97.2	86.2	X	X	96.9
322110	Pulp Mills	0.0	X	X	X	X	X	X	0.0
322120	Paper Mills	0.0	X	X	X	X	X	X	0.0
322130	Paperboard Mills	0.0	X	X	X	X	X	X	0.0
323	Printing and Related Support	98.7	X	X	98.7	X	X	X	X
324	Petroleum and Coal Products	4.7	0.0	0.1	7.2	13.4	0.0	X	6.7
324110	Petroleum Refineries	X	X	X	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	9.3	0.0	0.1	7.2	41.0	X	X	9.4
324122	Asphalt Shingle and Coating Materials	1.6	X	X	X	0.0	X	X	1.6
324191	Petroleum Lubricating Oil and Grease Manufacturing	0.0	X	X	X	X	X	X	0.0
324199	All Other Petroleum and Coal Products Manufacturing	0.0	X	0.0	X	X	0.0	X	X
325	Chemicals	0.2	0.0	0.4	0.7	0.1	0.1	X	0.7
325110	Petrochemicals	0.0	X	X	0.0	X	X	X	0.0
325120	Industrial Gases	0.0	X	X	0.0	X	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	0.0	0.0	0.0	0.0	X	X	X	0.0
325193	Ethyl Alcohol	D	X	X	X	0.0	X	X	D
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	X	X	X	X	0.0	X	X
325199	All Other Basic Organic Chemical Manufacturing	1.6	X	X	0.0	1.9	X	X	0.0
325211	Plastics Materials and Resins	0.1	X	0.0	0.6	0.0	X	X	0.1
325212	Synthetic Rubber	X	X	X	X	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	X	X	X	X	X	X	X	X
325311	Nitrogenous Fertilizers	D	X	X	0.0	X	X	X	D
325312	Phosphatic Fertilizers	0.0	X	X	X	X	0.0	X	X
3254	Pharmaceuticals and Medicines	7.4	X	46.3	5.2	72.4	96.1	X	36.7
325412	Pharmaceutical Preparation	5.2	X	X	5.2	X	X	X	39.0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	X	0.0	X	X	X	X	X
326	Plastics and Rubber Products	73.6	X	X	73.2	98.3	X	X	71.5
327	Nonmetallic Mineral Products	12.7	X	85.4	2.7	X	X	X	36.0
327120	Clay Building Material and Refractories	68.7	X	85.4	74.0	X	X	X	X
327211	Flat Glass	0.0	X	X	0.0	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	X	X	X	X	X	X	X	X
327213	Glass Containers	0.0	X	X	X	X	X	X	0.0
327215	Glass Products from Purchased Glass	41.1	X	X	X	X	X	X	41.1
327310	Cements	X	X	X	X	X	X	X	X
327410	Lime	0.0	X	X	X	X	X	X	0.0
327420	Gypsum	0.0	X	X	0.0	X	X	X	X
327993	Mineral Wool	X	X	X	X	X	X	X	X
331	Primary Metals	0.1	X	0.0	0.1	12.2	0.0	X	0.1
331110	Iron and Steel Mills and Ferroalloys	0.0	X	X	0.0	0.0	0.0	X	0.0
3312	Steel Products from Purchased Steel	0.0	X	0.0	0.0	X	X	X	0.0
3313	Alumina and Aluminum Production and Processing	0.0	X	X	0.0	X	X	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	X	X	0.0	X	X	X	X

331315	Aluminum Sheet, Plate and Foils	0.0	X	X	0.0	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	X	X	X	X	X	X	X	X
3314	Nonferrous Metal (except Aluminum) Production and Processing	0.0	X	0.0	0.0	0.0	X	X	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	X	X	X	X	X	X	0.0
3315	Foundries	2.6	X	X	2.7	12.5	0.0	X	21.9
331511	Iron Foundries	0.3	X	X	0.3	0.9	0.0	X	0.0
331523	Nonferrous Metal Die-Casting Foundries	0.1	X	X	0.0	30.0	X	X	0.0
331524	Aluminum Foundries, except Die-Casting	7.7	X	X	7.8	89.8	X	X	89.8
332	Fabricated Metal Products	68.4	X	X	X	99.5	X	X	91.2
333	Machinery	42.6	X	X	42.9	99.0	X	X	95.0
334	Computer and Electronic Products	54.0	X	68.8	X	X	X	X	54.0
334413	Semiconductors and Related Devices	7.9	X	X	X	X	X	X	7.9
335	Electrical Equip., Appliances, and Components	98.2	X	X	X	X	X	X	98.2
336	Transportation Equipment	7.3	X	98.0	5.5	0.2	X	X	0.1
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0.1	X	X	X	X	X	X	0.1
3364	Aerospace Product and Parts	0.5	X	X	0.6	0.0	X	X	0.1
336411	Aircraft	X	X	X	X	X	X	X	X
337	Furniture and Related Products	77.5	X	X	X	X	X	X	77.5
339	Miscellaneous	X	X	X	X	X	X	X	X
	Total	5.6	0.0	7.1	1.9	0.1	0.1	X	13.0

South Census Region

311	Food	23.0	X	0.0	19.4	71.2	X	X	46.4
3112	Grain and Oilseed Milling	39.5	X	X	73.9	X	X	X	46.4
311221	Wet Corn Milling and Starch Manufacturing	0.0	X	X	X	X	X	X	0.0
31131	Sugar Manufacturing	X	X	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	0.1	X	X	0.0	X	X	X	63.0
3115	Dairy Product Manufacturing	91.4	X	X	91.4	X	X	X	X
3116	Animal Slaughtering and Processing	1.4	X	0.0	X	79.3	X	X	12.9
312	Beverage and Tobacco Products	97.3	X	X	X	97.3	X	X	X
3121	Beverages	97.3	X	X	X	97.3	X	X	X
3122	Tobacco	X	X	X	X	X	X	X	X
313	Textile Mills	X	X	X	X	X	X	X	X
314	Textile Product Mills	X	X	X	X	X	X	X	X
315	Apparel	X	X	X	X	X	X	X	X
316	Leather and Allied Products	X	X	X	X	X	X	X	X
321	Wood Products	16.2	X	0.8	94.3	54.9	X	X	47.0
321113	Sawmills	11.4	X	10.3	X	X	X	X	47.5
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	X	X	X	X	X	X	X	X
321219	Reconstituted Wood Products	X	X	X	X	X	X	X	X
3219	Other Wood Products	94.3	X	X	94.3	X	X	X	84.3
322	Paper	33.4	X	0.0	X	0.1	X	X	77.8
322110	Pulp Mills	X	X	X	X	X	X	X	X
322120	Paper Mills	0.0	X	X	X	X	X	X	0.0
322130	Paperboard Mills	0.0	X	0.0	X	0.0	X	X	0.0
323	Printing and Related Support	94.9	X	X	94.9	X	X	X	X
324	Petroleum and Coal Products	3.9	X	34.2	0.1	47.0	0.0	X	4.2
324110	Petroleum Refineries	X	X	X	X	X	X	X	X

324121	Asphalt Paving Mixture and Block	5.3	X	34.3	0.0	47.0	X	X	5.3
324122	Asphalt Shingle and Coating Materials	11.1	X	X	X	X	X	X	11.1
324191	Petroleum Lubricating Oil and Grease Manufacturing	44.5	X	55.1	87.6	X	X	X	0.0
324199	All Other Petroleum and Coal Products Manufacturing	0.0	X	X	X	X	0.0	X	0.0
325	Chemicals	1.1	0.0	0.2	0.7	0.1	8.7	X	9.0
325110	Petrochemicals	0.0	X	0.0	X	0.0	0.0	X	0.0
325120	Industrial Gases	D	X	X	D	0.1	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	28.0	0.0	21.4	22.8	0.0	0.0	X	45.9
325193	Ethyl Alcohol	0.0	X	X	X	X	X	X	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	X	X	0.0	0.0	0.0	X	0.0
325199	All Other Basic Organic Chemical Manufacturing	0.7	X	0.1	1.3	0.1	0.1	X	12.0
325211	Plastics Materials and Resins	D	X	X	0.1	0.1	X	X	D
325212	Synthetic Rubber	0.0	X	0.0	0.0	0.0	X	X	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	X	X	X	X	X	X	0.0
325311	Nitrogenous Fertilizers	0.0	X	X	0.0	X	X	X	0.0
325312	Phosphatic Fertilizers	X	X	X	X	X	X	X	X
3254	Pharmaceuticals and Medicines	0.0	X	X	X	0.0	X	X	0.0
325412	Pharmaceutical Preparation	0.0	X	X	X	0.0	X	X	0.0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	X	X	X	X	X	X	X	X
326	Plastics and Rubber Products	81.1	X	X	X	61.5	X	X	89.5
327	Nonmetallic Mineral Products	67.4	X	0.0	35.9	0.0	78.3	X	47.8
327120	Clay Building Material and Refractories	0.0	X	X	X	X	X	X	0.0
327211	Flat Glass	0.0	X	X	X	X	X	X	0.0
327212	Other Pressed and Blown Glass and Glassware	X	X	X	X	X	X	X	X
327213	Glass Containers	0.0	X	X	X	X	X	X	0.0
327215	Glass Products from Purchased Glass	0.0	X	0.0	0.0	X	X	X	0.0
327310	Cements	0.0	X	X	X	0.0	X	X	0.0
327410	Lime	X	X	X	X	X	X	X	X
327420	Gypsum	X	X	X	X	X	X	X	X
327993	Mineral Wool	X	X	X	X	X	X	X	X
331	Primary Metals	0.1	X	0.0	0.1	X	0.0	65.7	0.1
331110	Iron and Steel Mills and Ferroalloys	0.0	X	0.0	0.0	X	0.0	X	0.0
3312	Steel Products from Purchased Steel	0.9	X	X	X	X	X	X	0.9
3313	Alumina and Aluminum Production and Processing	0.1	X	0.0	0.6	X	X	X	0.1
331314	Secondary Smelting and Alloying of Aluminum	0.0	X	X	0.0	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	1.1	X	0.0	96.0	X	X	X	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	0.1	X	X	0.0	X	X	X	45.6
3314	Nonferrous Metal (except Aluminum) Production and Processing	71.9	X	X	X	X	X	72.2	21.8
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	X	X	X	X	X	X	X	X
3315	Foundries	0.0	X	X	0.0	X	0.0	0.0	0.0
331511	Iron Foundries	0.0	X	X	0.0	X	0.0	X	0.0
331523	Nonferrous Metal Die-Casting Foundries	0.0	X	X	X	X	X	X	0.0
331524	Aluminum Foundries, except Die-Casting	X	X	X	X	X	X	X	X
332	Fabricated Metal Products	91.2	X	X	88.8	0.0	X	X	99.3
333	Machinery	61.9	X	86.3	70.1	X	X	X	85.0
334	Computer and Electronic Products	0.0	X	X	X	0.0	X	X	0.0
334413	Semiconductors and Related Devices	0.0	X	X	X	0.0	X	X	0.0
335	Electrical Equip., Appliances, and Components	31.2	X	19.8	X	96.5	X	X	94.8

336	Transportation Equipment	14.8	X	X	19.7	1.6	X	X	23.2
336110	Automobile and Light Duty Motor Vehicle Manufacturing	26.3	X	X	X	0.0	X	X	26.5
3364	Aerospace Product and Parts	18.2	X	X	19.7	96.7	X	X	6.2
336411	Aircraft	X	X	X	X	X	X	X	X
337	Furniture and Related Products	86.1	X	X	X	X	X	X	86.1
339	Miscellaneous	70.0	X	X	70.0	X	X	X	99.0
	Total	1.1	0.0	6.4	0.7	0.1	2.9	65.7	5.6

West Census Region

311	Food	3.4	X	3.5	98.0	0.0	X	X	0.1
3112	Grain and Oilseed Milling	0.0	X	X	X	X	X	X	0.0
311221	Wet Corn Milling and Starch Manufacturing	X	X	X	X	X	X	X	X
31131	Sugar Manufacturing	X	X	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	33.7	X	50.4	X	0.0	X	X	0.0
3115	Dairy Product Manufacturing	32.3	X	X	X	X	X	X	32.3
3116	Animal Slaughtering and Processing	0.1	X	X	97.0	X	X	X	0.0
312	Beverage and Tobacco Products	83.9	X	57.9	X	84.0	X	X	83.7
3121	Beverages	83.9	X	57.9	X	84.0	X	X	83.7
3122	Tobacco	X	X	X	X	X	X	X	X
313	Textile Mills	X	X	X	X	X	X	X	X
314	Textile Product Mills	X	X	X	X	X	X	X	X
315	Apparel	X	X	X	X	X	X	X	X
316	Leather and Allied Products	X	X	X	X	X	X	X	X
321	Wood Products	0.3	X	0.6	0.0	0.0	X	X	28.3
321113	Sawmills	0.1	X	X	X	0.0	X	X	21.0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	3.3	X	96.1	0.0	X	X	X	48.0
321219	Reconstituted Wood Products	X	X	X	X	X	X	X	X
3219	Other Wood Products	41.0	X	41.0	X	X	X	X	X
322	Paper	0.0	X	X	X	X	X	X	0.0
322110	Pulp Mills	X	X	X	X	X	X	X	X
322120	Paper Mills	X	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	X	X	X	X	X	X	0.0
323	Printing and Related Support	93.0	X	X	93.0	X	X	X	X
324	Petroleum and Coal Products	4.0	X	X	84.5	X	X	X	4.0
324110	Petroleum Refineries	X	X	X	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	5.4	X	X	84.5	X	X	X	5.4
324122	Asphalt Shingle and Coating Materials	0.0	X	X	X	X	X	X	0.0
324191	Petroleum Lubricating Oil and Grease Manufacturing	X	X	X	X	X	X	X	X
324199	All Other Petroleum and Coal Products Manufacturing	X	X	X	X	X	X	X	X
325	Chemicals	10.0	X	38.3	1.2	23.3	0.0	X	62.4
325110	Petrochemicals	X	X	X	X	X	X	X	X
325120	Industrial Gases	0.0	X	X	0.0	X	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	0.1	X	92.2	0.0	X	X	X	0.0
325193	Ethyl Alcohol	0.0	X	X	0.0	X	X	X	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	X	X	X	X	0.0	X	X
325199	All Other Basic Organic Chemical Manufacturing	65.4	X	X	67.4	88.9	X	X	X
325211	Plastics Materials and Resins	0.0	X	X	0.0	X	X	X	X
325212	Synthetic Rubber	X	X	X	X	X	X	X	X

325220	Artificial and Synthetic Fibers and Filaments	X	X	X	X	X	X	X	X
325311	Nitrogenous Fertilizers	0.0	X	X	0.0	0.0	X	X	0.0
325312	Phosphatic Fertilizers	0.0	X	X	0.0	X	X	X	X
3254	Pharmaceuticals and Medicines	72.7	X	6.5	52.1	87.7	X	X	0.0
325412	Pharmaceutical Preparation	51.6	X	0.0	52.1	X	X	X	X
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	X	X	X	X	X	X	0.0
326	Plastics and Rubber Products	61.4	X	X	99.0	X	X	X	0.0
327	Nonmetallic Mineral Products	2.6	X	3.7	0.0	97.5	X	X	2.6
327120	Clay Building Material and Refractories	0.0	X	X	X	X	X	X	0.0
327211	Flat Glass	0.0	X	X	0.0	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	X	X	X	X	X	X	X	X
327213	Glass Containers	X	X	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	X	X	X	X	X	X	X	X
327310	Cements	X	X	X	X	X	X	X	X
327410	Lime	X	X	X	X	X	X	X	X
327420	Gypsum	0.0	X	X	X	X	X	X	0.0
327993	Mineral Wool	0.0	X	0.0	X	X	X	X	X
331	Primary Metals	0.0	X	0.0	X	0.0	0.0	X	0.0
331110	Iron and Steel Mills and Ferroalloys	0.0	X	X	X	X	0.0	X	0.0
3312	Steel Products from Purchased Steel	0.0	X	X	X	X	X	X	0.0
3313	Alumina and Aluminum Production and Processing	0.0	X	X	X	X	X	X	0.0
331314	Secondary Smelting and Alloying of Aluminum	X	X	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	X	X	X	X	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	0.0	X	X	X	X	X	X	0.0
3314	Nonferrous Metal (except Aluminum) Production and Processing	0.0	X	0.0	X	0.0	0.0	X	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	X	0.0	X	X	0.0	X	X
3315	Foundries	0.0	X	X	X	0.0	X	X	0.0
331511	Iron Foundries	X	X	X	X	X	X	X	X
331523	Nonferrous Metal Die-Casting Foundries	0.0	X	X	X	X	X	X	0.0
331524	Aluminum Foundries, except Die-Casting	0.0	X	X	X	0.0	X	X	X
332	Fabricated Metal Products	98.7	X	X	99.5	99.0	X	X	57.8
333	Machinery	89.7	X	X	98.3	99.0	X	X	X
334	Computer and Electronic Products	74.3	X	X	X	X	X	X	74.3
334413	Semiconductors and Related Devices	74.3	X	X	X	X	X	X	74.3
335	Electrical Equip., Appliances, and Components	98.9	X	X	X	X	X	X	98.9
336	Transportation Equipment	23.3	X	X	23.2	24.7	X	X	0.0
336110	Automobile and Light Duty Motor Vehicle Manufacturing	X	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	23.3	X	X	23.2	24.7	X	X	0.0
336411	Aircraft	0.0	X	X	X	0.0	X	X	X
337	Furniture and Related Products	99.0	X	X	99.0	X	X	X	X
339	Miscellaneous	66.9	X	X	83.1	X	X	X	85.5
	Total	3.7	X	0.7	2.3	17.2	0.0	X	4.8

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2022 Manufacturing Energy Consumption Survey*, and Office of Energy Production, Conversion & Delivery, Form EIA-810, *Monthly Refinery Report* for 2022

Notes: Totals may not equal sum of components because of independent rounding. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy for heat and power and as feedstock or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; wood chips, bark, and wood waste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

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^a The Bureau of the Census classifies establishments using the 2022 North American Industry Classification System (NAICS).

^b *Distillate fuel oil* includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

^c *Natural gas* includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

^d Hydrocarbon Gas Liquids (*HGL*) include ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas liquids (NGL).

^e *Other* includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power or as feedstock/raw material inputs. See also Footnote *f*.

^f Previously, the *Manufacturing Energy Consumption Survey* (MECS) had accounted for energy consumed in petroleum refineries by measuring their own fuel use, assuming shipments of fuel products would later be counted in the industries that use them, and assigning the heat equivalent of the nonfuel products to the petroleum refinery (for a more detailed explanation see, *Feedstock and Offsite-Produced Fuel at Petroleum Refineries*). Starting with the 2014 MECS, however, EIA began collecting asphalt and petrochemical feedstock data from establishments that use those nonfuel products. These data are included in the *Other* column. However, other *Miscellaneous Nonfuel Products* (that is, lubricants, solvents, waxes, and special naphthas) from refineries and used elsewhere throughout the manufacturing sector as energy are not collected on the MECS. An estimate of the *Miscellaneous Nonfuel Products* used in manufacturing was derived using EIA's [U.S. Product Supplied for Crude Oil and Petroleum Products](#) data.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because relative standard error (RSE) is greater than 50%.

NA=Not available.

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

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure protection of the confidential source data (Project No. 7504703, Disclosure Review Board (DRB) approval number: CBDRB-FY25-0054).