

Released: August 2025

Next MECS will be fielded in 2027

Table 3.2 Fuel consumption, 2022

Level: National and regional data

Row: NAICS codes

Column: Energy sources

Unit: Trillion British thermal units

NAICS code ^a	Subsector and industry	Total	Net electricity ^b	Residual fuel oil	Distillate fuel oil ^c	Natural gas ^d	HGL (excluding natural gasoline) ^e	Coal	Coke and breeze	Other ^f
Total United States										
311	Food	1,235	271	*	14	704	8	93	1	142
3112	Grain and Oilseed Milling	338	60	*	1	170	*	67	0	40
311221	Wet Corn Milling and Starch Manufacturing	169	27	0	*	69	*	40	0	32
31131	Sugar Manufacturing	167	5	*	*	39	*	26	1	94
3114	Fruit and Vegetable Preserving and Specialty Food	121	31	*	*	88	1	0	0	1
3115	Dairy Product Manufacturing	171	45	*	2	118	Q	0	0	Q
3116	Animal Slaughtering and Processing	246	76	*	3	163	2	0	0	2
312	Beverage and Tobacco Products	265	51	0	*	212	1	1	0	*
3121	Beverages	258	48	0	*	Q	1	1	0	*
3122	Tobacco	7	2	0	*	4	*	0	0	*
313	Textile Mills	57	30	0	*	24	*	*	0	2
314	Textile Product Mills	21	10	0	*	10	Q	0	0	*
315	Apparel	3	2	0	*	1	*	0	0	*
316	Leather and Allied Products	3	1	0	*	2	*	0	0	*
321	Wood Products	414	69	*	11	80	3	*	0	251
321113	Sawmills	199	27	*	7	18	*	0	0	147
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	144	19	*	1	37	1	0	0	85
321219	Reconstituted Wood Products	72	10	*	*	22	*	0	0	40
3219	Other Wood Products	62	21	0	1	21	1	*	0	17
322	Paper	2,003	170	8	4	617	3	32	0	1,170
322110	Pulp Mills	345	5	1	1	55	*	2	0	281
322120	Paper Mills	475	55	2	1	188	*	14	0	214
322130	Paperboard Mills	986	61	3	2	279	*	13	0	629
323	Printing and Related Support	53	31	*	*	21	*	0	0	*
324	Petroleum and Coal Products	3,543	160	2	7	1,109	29	7	7	2,223
324110	Petroleum Refineries	3,314	150	*	3	1,021	27	0	0	2,112
324121	Asphalt Paving Mixture and Block	119	5	2	4	53	1	0	0	54
324122	Asphalt Shingle and Coating Materials	16	3	0	*	11	*	0	0	2
324191	Petroleum Lubricating Oil and Grease Manufacturing	16	2	0	*	13	*	0	0	*
324199	All Other Petroleum and Coal Products Manufacturing	79	-1	0	*	10	*	7	7	55
325	Chemicals	3,976	512	*	8	2,585	16	63	0	791
325110	Petrochemicals	746	27	0	*	405	4	0	0	309
325120	Industrial Gases	190	91	0	*	94	*	0	0	6

325180	Other Basic Inorganic Chemical Manufacturing	401	88	0	*	215	*	24	0	74
325193	Ethyl Alcohol	470	37	0	*	382	*	20	0	31
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	102	16	0	1	39	5	0	0	40
325199	All Other Basic Organic Chemical Manufacturing	509	64	*	1	310	*	17	0	117
325211	Plastics Materials and Resins	683	41	0	1	502	4	0	0	136
325212	Synthetic Rubber	46	4	0	*	27	*	2	0	13
325220	Artificial and Synthetic Fibers and Filaments	25	8	0	*	17	*	0	0	*
325311	Nitrogenous Fertilizers	215	D	0	*	196	*	0	0	D
325312	Phosphatic Fertilizers	18	10	*	3	3	*	1	0	1
3254	Pharmaceuticals and Medicines	120	46	0	*	70	*	*	0	3
325412	Pharmaceutical Preparation	62	22	0	*	38	*	0	0	1
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	7	2	0	*	3	*	0	0	2
326	Plastics and Rubber Products	357	241	*	*	106	4	0	0	Q
327	Nonmetallic Mineral Products	1,166	211	*	17	417	3	193	7	317
327120	Clay Building Material and Refractories	39	5	0	*	31	*	1	0	2
327211	Flat Glass	44	5	0	*	38	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	26	7	0	*	19	*	0	0	*
327213	Glass Containers	54	12	0	*	42	*	0	0	*
327215	Glass Products from Purchased Glass	Q	13	0	*	9	*	0	0	Q
327310	Cements	362	44	0	3	90	*	121	4	100
327410	Lime	103	5	0	1	26	*	56	2	13
327420	Gypsum	77	6	*	*	70	*	0	0	*
327993	Mineral Wool	47	14	0	*	32	*	*	1	*
331	Primary Metals	1,449	339	2	8	626	4	9	284	177
331110	Iron and Steel Mills and Ferroalloys	1,032	186	2	4	389	*	9	268	174
3312	Steel Products from Purchased Steel	55	19	0	2	33	*	0	*	1
3313	Alumina and Aluminum Production and Processing	189	68	0	1	118	1	0	0	2
331314	Secondary Smelting and Alloying of Aluminum	22	2	0	*	20	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	84	21	0	1	62	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	26	7	0	*	18	*	0	0	*
3314	Nonferrous Metal (except Aluminum) Production and Processing	85	33	0	*	43	2	0	6	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	30	15	0	*	14	*	0	*	*
3315	Foundries	87	34	0	*	43	1	*	10	*
331511	Iron Foundries	38	16	0	*	11	*	*	10	*
331523	Nonferrous Metal Die-Casting Foundries	23	7	0	*	16	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	6	2	0	*	4	*	0	0	*
332	Fabricated Metal Products	425	143	*	2	275	4	0	0	Q
333	Machinery	143	76	0	3	60	4	0	0	*
334	Computer and Electronic Products	128	95	*	*	32	*	0	0	*
334413	Semiconductors and Related Devices	66	47	*	*	19	*	0	0	*
335	Electrical Equip., Appliances, and Components	87	40	0	Q	37	*	0	9	*
336	Transportation Equipment	304	159	*	1	130	3	0	0	11
336110	Automobile and Light Duty Motor Vehicle Manufacturing	77	27	0	*	40	*	0	0	8
3364	Aerospace Product and Parts	62	33	0	*	27	*	0	0	1
336411	Aircraft	18	9	0	*	8	*	0	0	*
337	Furniture and Related Products	51	Q	0	*	14	1	*	0	4
339	Miscellaneous	57	33	0	*	24	*	0	0	*

Total		15,742	2,674	13	79	7,087	85	398	308	5,097
Northeast Census Region										
311	Food	78	25	*	Q	50	1	0	0	*
3112	Grain and Oilseed Milling	4	2	0	*	2	*	0	0	*
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	2	1	0	0	2	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	9	3	*	*	5	*	0	0	*
3115	Dairy Product Manufacturing	21	6	*	*	15	*	0	0	*
3116	Animal Slaughtering and Processing	11	4	0	*	7	*	0	0	*
312	Beverage and Tobacco Products	16	6	0	*	10	*	0	0	*
3121	Beverages	15	6	0	*	9	*	0	0	*
3122	Tobacco	1	*	0	0	1	*	0	0	0
313	Textile Mills	6	2	0	*	3	*	0	0	*
314	Textile Product Mills	Q	*	0	0	Q	*	0	0	*
315	Apparel	1	*	0	*	*	*	0	0	0
316	Leather and Allied Products	*	*	0	*	*	*	0	0	*
321	Wood Products	42	5	*	1	5	*	*	0	31
321113	Sawmills	8	2	*	1	*	*	0	0	5
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	28	1	*	*	3	*	0	0	24
321219	Reconstituted Wood Products	15	*	*	*	3	*	0	0	12
3219	Other Wood Products	6	2	0	*	2	*	*	0	1
322	Paper	205	21	3	1	100	1	5	0	75
322110	Pulp Mills	D	*	0	0	4	*	0	0	D
322120	Paper Mills	123	9	2	*	59	*	2	0	51
322130	Paperboard Mills	18	4	0	*	14	*	0	0	1
323	Printing and Related Support	10	6	*	*	4	*	0	0	*
324	Petroleum and Coal Products	201	8	*	2	47	2	0	0	142
324110	Petroleum Refineries	123	6	*	*	33	2	0	0	81
324121	Asphalt Paving Mixture and Block	57	1	*	1	11	*	0	0	43
324122	Asphalt Shingle and Coating Materials	1	*	0	*	1	*	0	0	0
324191	Petroleum Lubricating Oil and Grease Manufacturing	1	*	0	*	*	*	0	0	*
324199	All Other Petroleum and Coal Products Manufacturing	19	*	0	*	2	*	0	0	17
325	Chemicals	164	65	*	Q	75	3	0	0	20
325110	Petrochemicals	3	1	0	*	0	2	0	0	0
325120	Industrial Gases	35	33	0	*	1	*	0	0	1
325180	Other Basic Inorganic Chemical Manufacturing	13	5	0	*	6	*	0	0	Q
325193	Ethyl Alcohol	3	*	0	0	3	*	0	0	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	*	*	0	0	*	*	0	0	0
325199	All Other Basic Organic Chemical Manufacturing	34	5	*	*	26	*	0	0	2
325211	Plastics Materials and Resins	13	4	0	*	7	*	0	0	1
325212	Synthetic Rubber	*	*	0	0	*	*	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	*	*	0	0	*	*	0	0	*
325311	Nitrogenous Fertilizers	*	*	0	*	*	*	0	0	0
325312	Phosphatic Fertilizers	*	*	0	*	0	*	0	0	0
3254	Pharmaceuticals and Medicines	30	11	0	*	19	*	0	0	*
325412	Pharmaceutical Preparation	13	5	0	*	8	*	0	0	*

325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	4	1	0	*	1	*	0	0	2
326	Plastics and Rubber Products	66	25	*	*	37	*	0	0	Q
327	Nonmetallic Mineral Products	154	12	*	2	53	*	11	0	Q
327120	Clay Building Material and Refractories	5	1	0	*	2	*	1	0	*
327211	Flat Glass	6	1	0	0	5	*	0	0	0
327212	Other Pressed and Blown Glass and Glassware	4	1	0	*	3	*	0	0	*
327213	Glass Containers	7	2	0	*	6	*	0	0	*
327215	Glass Products from Purchased Glass	Q	1	0	*	1	*	0	0	Q
327310	Cements	27	3	0	*	17	*	3	0	3
327410	Lime	9	*	0	*	3	0	6	0	0
327420	Gypsum	11	1	*	*	10	*	0	0	0
327993	Mineral Wool	3	*	0	*	3	*	0	0	*
331	Primary Metals	170	36	0	*	68	*	*	22	43
331110	Iron and Steel Mills and Ferroalloys	116	14	0	*	38	*	*	21	43
3312	Steel Products from Purchased Steel	10	3	0	*	7	*	0	*	*
3313	Alumina and Aluminum Production and Processing	22	10	0	*	13	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	1	*	0	0	1	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	10	2	0	*	8	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	D	D	0	*	3	*	0	0	*
3314	Nonferrous Metal (except Aluminum) Production and Processing	15	6	0	*	8	*	0	1	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	3	1	0	*	2	*	0	*	0
3315	Foundries	7	3	0	*	3	*	*	0	*
331511	Iron Foundries	2	1	0	*	1	*	*	0	*
331523	Nonferrous Metal Die-Casting Foundries	1	*	0	0	*	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	*	0	*	*	*	0	0	*
332	Fabricated Metal Products	62	23	*	*	38	*	0	0	*
333	Machinery	15	6	0	*	Q	Q	0	0	*
334	Computer and Electronic Products	23	15	*	*	8	*	0	0	*
334413	Semiconductors and Related Devices	14	8	*	*	5	*	0	0	*
335	Electrical Equip., Appliances, and Components	20	7	0	*	4	*	0	9	*
336	Transportation Equipment	28	12	0	*	14	Q	0	0	1
336110	Automobile and Light Duty Motor Vehicle Manufacturing	*	*	0	0	*	0	0	0	*
3364	Aerospace Product and Parts	10	3	0	*	6	*	0	0	1
336411	Aircraft	2	1	0	*	1	*	0	0	*
337	Furniture and Related Products	3	1	0	*	1	*	0	0	*
339	Miscellaneous	7	3	0	*	4	*	0	0	*
	Total	1,274	279	4	10	531	12	16	31	391

Midwest Census Region

311	Food	588	122	*	4	326	Q	90	1	41
3112	Grain and Oilseed Milling	282	45	*	1	134	*	66	0	35
311221	Wet Corn Milling and Starch Manufacturing	161	26	0	*	65	*	40	0	29
31131	Sugar Manufacturing	37	2	*	*	9	*	24	1	1
3114	Fruit and Vegetable Preserving and Specialty Food	31	9	0	*	21	*	0	0	*
3115	Dairy Product Manufacturing	66	18	*	1	42	Q	0	0	Q
3116	Animal Slaughtering and Processing	105	30	*	2	72	1	0	0	1
312	Beverage and Tobacco Products	22	10	0	*	12	*	0	0	*

3121	Beverages	22	10	0	*	12	*	0	0	*
3122	Tobacco	*	*	0	0	*	0	0	0	0
313	Textile Mills	2	1	0	*	1	*	0	0	0
314	Textile Product Mills	3	1	0	0	2	*	0	0	0
315	Apparel	*	*	0	0	*	0	0	0	0
316	Leather and Allied Products	2	*	0	*	Q	*	0	0	*
321	Wood Products	44	10	0	Q	15	1	0	0	17
321113	Sawmills	6	1	0	*	2	*	0	0	2
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	18	3	0		8	*	0	0	6
321219	Reconstituted Wood Products	14	2	0	*	6	*	0	0	6
3219	Other Wood Products	19	5	0	*	5	*	0	0	Q
322	Paper	248	39	*	*	118	*	4	0	87
322110	Pulp Mills	D	1	0		4	*	0	0	D
322120	Paper Mills	109	12	*	*	43	*	3	0	51
322130	Paperboard Mills	61	11	*	*	37	*	0	0	12
323	Printing and Related Support	24	13	0	0	11	*	0	0	*
324	Petroleum and Coal Products	601	35	*	2	164	3	0	7	389
324110	Petroleum Refineries	541	34	0	1	139	3	0	0	364
324121	Asphalt Paving Mixture and Block	24	1	*	1	16	*	0	0	6
324122	Asphalt Shingle and Coating Materials	6	1	0	*	3	*	0	0	2
324191	Petroleum Lubricating Oil and Grease Manufacturing	2	1	0	*	2	*	0	0	*
324199	All Other Petroleum and Coal Products Manufacturing	27	-1	0	*	3	*	0	7	18
325	Chemicals	931	145	*	1	675	2	20	0	87
325110	Petrochemicals	*	*	0	0	0	*	0	0	0
325120	Industrial Gases	24	23	0	0	*	*	0	0	0
325180	Other Basic Inorganic Chemical Manufacturing	32	7	0	*	19	*	0	0	6
325193	Ethyl Alcohol	446	35	0	*	361	*	20	0	30
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	7	1	0	*	2	*	0	0	3
325199	All Other Basic Organic Chemical Manufacturing	43	12	0	*	20	*	0	0	11
325211	Plastics Materials and Resins	83	11	0	*	38	*	0	0	33
325212	Synthetic Rubber	1	*	0	0	*	*	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	1	*	0	0	*	*	0	0	0
325311	Nitrogenous Fertilizers	62	D	0	*	54	*	0	0	D
325312	Phosphatic Fertilizers	7	4	*	*	2	*	0	0	*
3254	Pharmaceuticals and Medicines	54	17	0	*	34	*	*	0	2
325412	Pharmaceutical Preparation	28	7	0	*	20	*	0	0	Q
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	*	*	0	*	*	*	0	0	0
326	Plastics and Rubber Products	134	102	*		32	Q	0	0	*
327	Nonmetallic Mineral Products	293	48	0	3	104	1	54	1	Q
327120	Clay Building Material and Refractories	7	1	0	*	6	*	0	0	*
327211	Flat Glass	16	2	0	*	14	*	0	0	0
327212	Other Pressed and Blown Glass and Glassware	8	1	0		6	*	0	0	*
327213	Glass Containers	15	3	0	*	12	*	0	0	*
327215	Glass Products from Purchased Glass	8	5	0	*	3	*	0	0	*
327310	Cements	82	11	0	1	12	*	28	*	29
327410	Lime	46	2	0	*	11	*	26	*	6
327420	Gypsum	12	1	0	*	11	*	0	0	*

327993	Mineral Wool	23	7	0	*	15	*	0	*	*
331	Primary Metals	851	120	*	3	338	3	4	256	129
331110	Iron and Steel Mills and Ferroalloys	698	70	*	2	247	*	4	246	129
3312	Steel Products from Purchased Steel	20	7	0	*	12	*	0	0	*
3313	Alumina and Aluminum Production and Processing	56	16	0	*	39	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	9	1	0	*	8	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	34	8	0	*	25	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	D	D	0	*	6	*	0	0	*
3314	Nonferrous Metal (except Aluminum) Production and Processing	21	5	0		13	1	0	2	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	1	*	0	*	1	*	0	0	*
3315	Foundries	57	21	0	*	27	*	0	8	*
331511	Iron Foundries	26	11	0	*	7	*	0	8	*
331523	Nonferrous Metal Die-Casting Foundries	15	4	0		10	*	0	0	
331524	Aluminum Foundries, except Die-Casting	4	1	0	*	3	*	0	0	*
332	Fabricated Metal Products	133	48	0	*	82	2	0	0	*
333	Machinery	80	41	0	Q	36	1	0	0	*
334	Computer and Electronic Products	30	Q	0		5	*	0	0	*
334413	Semiconductors and Related Devices	3	2	0	*	1	*	0	0	*
335	Electrical Equip., Appliances, and Components	28	13	0	*	14	*	0	0	*
336	Transportation Equipment	154	78	0	*	69	1	0	0	6
336110	Automobile and Light Duty Motor Vehicle Manufacturing	43	13	0	*	25	*	0	0	5
3364	Aerospace Product and Parts	17	8	0	*	8	*	0	0	1
336411	Aircraft	4	2	0	*	2	*	0	0	*
337	Furniture and Related Products	15	7	0	*	7	*	0	0	Q
339	Miscellaneous	29	16	0	*	14	*	0	0	*
	Total	4,213	873	1	17	2,027	20	172	265	838

South Census Region

311	Food	385	79	*	3	201	2	*	0	100
3112	Grain and Oilseed Milling	47	11	*	*	30	*	*	0	5
311221	Wet Corn Milling and Starch Manufacturing	8	1	0	*	4	*	*	0	3
31131	Sugar Manufacturing	105	2	0	*	10	*	0	0	93
3114	Fruit and Vegetable Preserving and Specialty Food	28	7	0	*	20	*	0	0	*
3115	Dairy Product Manufacturing	38	7	0	1	30	*	0	0	*
3116	Animal Slaughtering and Processing	107	36	0	1	69	1	0	0	1
312	Beverage and Tobacco Products	Q	26	0	*	Q	*	1	0	*
3121	Beverages	Q	23	0	*	Q	*	1	0	*
3122	Tobacco	6	2	0		4	*	0	0	*
313	Textile Mills	47	26	0	*	19	*	*	0	2
314	Textile Product Mills	15	8	0	*	7	*	0	0	*
315	Apparel	2	1	0	*	1	*	0	0	*
316	Leather and Allied Products	*	*	0		*	*	0	0	*
321	Wood Products	237	40	0	6	43	1	0	0	146
321113	Sawmills	126	17	0	4	12	*	0	0	93
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	75	10	0	1	19	*	0	0	45
321219	Reconstituted Wood Products	40	6	0	*	11	*	0	0	22
3219	Other Wood Products	29	11	0	1	Q	*	0	0	7

322	Paper	1,386	87	3	3	342	2	21	0	927
322110	Pulp Mills	306	3	1	1	48	*	2	0	252
322120	Paper Mills	184	22	*	1	64	*	8	0	88
322130	Paperboard Mills	818	37	2	2	201	*	11	0	565
323	Printing and Related Support	14	9	0	*	5	*	0	0	0
324	Petroleum and Coal Products	1,917	96	1	3	605	13	0	0	1,199
324110	Petroleum Refineries	1,845	92	0	2	567	12	0	0	1,172
324121	Asphalt Paving Mixture and Block	29	2	1	1	19	*	0	0	6
324122	Asphalt Shingle and Coating Materials	7	1	0		6	*	0	0	*
324191	Petroleum Lubricating Oil and Grease Manufacturing	12	2	0	*	11	*	0	0	*
324199	All Other Petroleum and Coal Products Manufacturing	24	*	0	*	3	*	0	0	20
325	Chemicals	2,725	263	0	6	1,762	11	20	0	663
325110	Petrochemicals	743	26	0		405	2	0	0	309
325120	Industrial Gases	112	24	0	*	82	*	0	0	5
325180	Other Basic Inorganic Chemical Manufacturing	302	64	0	*	174	*	0	0	64
325193	Ethyl Alcohol	12	1	0	*	11	*	0	0	*
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	81	15	0		35	5	0	0	26
325199	All Other Basic Organic Chemical Manufacturing	402	45	0	1	243	*	17	0	96
325211	Plastics Materials and Resins	585	24	0	1	455	4	0	0	101
325212	Synthetic Rubber	45	4	0	*	26	*	2	0	13
325220	Artificial and Synthetic Fibers and Filaments	24	8	0	*	16	*	0	0	*
325311	Nitrogenous Fertilizers	144	8	0	*	136	*	0	0	*
325312	Phosphatic Fertilizers	9	4	0	3	1	*	1	0	*
3254	Pharmaceuticals and Medicines	25	12	0	*	12	*	0	0	*
325412	Pharmaceutical Preparation	14	7	0	*	7	*	0	0	*
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	1	1	0	*	1	*	0	0	*
326	Plastics and Rubber Products	133	96	0	*	32	Q	0	0	Q
327	Nonmetallic Mineral Products	438	111	0	10	185	1	61	3	67
327120	Clay Building Material and Refractories	26	3	0	*	20	*	0	0	2
327211	Flat Glass	17	2	0	*	14	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	13	4	0	*	9	*	0	0	*
327213	Glass Containers	19	4	0	*	15	*	0	0	*
327215	Glass Products from Purchased Glass	9	6	0	*	4	*	0	0	*
327310	Cements	169	19	0	2	49	*	41	2	58
327410	Lime	37	2	0	1	11	*	17	1	5
327420	Gypsum	40	3	0	*	36	*	0	0	*
327993	Mineral Wool	17	5	0	*	12	*	*	*	*
331	Primary Metals	371	164	2	4	185	1	5	5	4
331110	Iron and Steel Mills and Ferroalloys	201	95	2	1	95	*	5	*	2
3312	Steel Products from Purchased Steel	19	7	0	2	10	*	0	0	*
3313	Alumina and Aluminum Production and Processing	101	39	0	*	60	*	0	0	2
331314	Secondary Smelting and Alloying of Aluminum	11	1	0		10	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	36	9	0	*	26	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	D	D	0	*	7	*	0	0	*
3314	Nonferrous Metal (except Aluminum) Production and Processing	31	16	0	*	12	*	0	3	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	12	9	0	*	2	*	0	0	*
3315	Foundries	18	8	0	*	9	*	0	2	*

331511	Iron Foundries	8	4	0	*	3	*	0	2	*
331523	Nonferrous Metal Die-Casting Foundries	6	2	0	*	4	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	*	0	*	*	*	0	0	0
332	Fabricated Metal Products	Q	47	0	Q	Q	1	0	0	Q
333	Machinery	35	21	0	1	12	Q	0	0	*
334	Computer and Electronic Products	34	26	0	*	8	*	0	0	*
334413	Semiconductors and Related Devices	24	19	0	*	5	*	0	0	*
335	Electrical Equip., Appliances, and Components	35	18	0	*	17	*	0	0	*
336	Transportation Equipment	98	55	*	1	37	1	0	0	4
336110	Automobile and Light Duty Motor Vehicle Manufacturing	32	13	0	*	15	*	0	0	4
3364	Aerospace Product and Parts	16	11	0	*	5	*	0	0	*
336411	Aircraft	6	4	0	*	2	*	0	0	*
337	Furniture and Related Products	Q	Q	0		4	*	*	0	3
339	Miscellaneous	12	10	0	*	2	*	0	0	*
	Total	8,306	1,205	7	39	3,784	37	108	8	3,119

West Census Region

311	Food	184	45	*	7	127	*	3	*	2
3112	Grain and Oilseed Milling	6	3	*	*	3	*	0	0	*
311221	Wet Corn Milling and Starch Manufacturing	*	*	0	0	*	*	0	0	*
31131	Sugar Manufacturing	23	1	0	*	19	*	3	*	*
3114	Fruit and Vegetable Preserving and Specialty Food	54	11	0	*	42	*	0	0	1
3115	Dairy Product Manufacturing	46	13	0	*	32	*	0	0	*
3116	Animal Slaughtering and Processing	22	6	0	*	15	*	0	0	*
312	Beverage and Tobacco Products	25	10	0	*	15	*	0	0	*
3121	Beverages	25	10	0	*	15	*	0	0	*
3122	Tobacco	*	*	0	0	*	0	0	0	0
313	Textile Mills	2	1	0	0	1	*	0	0	*
314	Textile Product Mills	2	1	0	0	1	*	0	0	0
315	Apparel	*	*	0	0	*	0	0	0	0
316	Leather and Allied Products	*	*	0	0	*	*	0	0	0
321	Wood Products	91	15	0	2	17	1	0	0	57
321113	Sawmills	59	7	0	2	4	*	0	0	46
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	24	5	0	*	8	*	0	0	10
321219	Reconstituted Wood Products	4	2	0	*	2	*	0	0	1
3219	Other Wood Products	8	3	0	*	4	*	0	0	1
322	Paper	165	23	2	*	57	*	2	0	81
322110	Pulp Mills	7	*	1	*	*	0	0	0	6
322120	Paper Mills	59	13	0	*	22	*	0	0	25
322130	Paperboard Mills	88	8	1	*	27	*	2	0	51
323	Printing and Related Support	5	3	0	0	2	*	0	0	0
324	Petroleum and Coal Products	825	21	*	1	292	10	7	0	494
324110	Petroleum Refineries	805	19	*	*	282	10	0	0	494
324121	Asphalt Paving Mixture and Block	9	1	*	*	7	*	0	0	*
324122	Asphalt Shingle and Coating Materials	2	*	0	*	1	*	0	0	*
324191	Petroleum Lubricating Oil and Grease Manufacturing	*	*	0	0	*	*	0	0	0
324199	All Other Petroleum and Coal Products Manufacturing	9	*	0	0	2	*	7	0	0

325	Chemicals	157	38	0	*	73	*	24	0	21
325110	Petrochemicals	*	*	0	0	0	0	0	0	0
325120	Industrial Gases	20	10	0	0	10	*	0	0	0
325180	Other Basic Inorganic Chemical Manufacturing	53	11	0	*	16	*	24	0	1
325193	Ethyl Alcohol	9	1	0	*	7	*	0	0	1
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	14	1	0	*	2	*	0	0	11
325199	All Other Basic Organic Chemical Manufacturing	30	2	0	*	20	*	0	0	8
325211	Plastics Materials and Resins	3	1	0	*	1	*	0	0	*
325212	Synthetic Rubber	*	*	0	0	*	*	0	0	*
325220	Artificial and Synthetic Fibers and Filaments	*	*	0	0	*	*	0	0	0
325311	Nitrogenous Fertilizers	9	2	0	*	6	*	0	0	*
325312	Phosphatic Fertilizers	2	1	0	*	1	*	0	0	*
3254	Pharmaceuticals and Medicines	11	6	0		5	*	0	0	
325412	Pharmaceutical Preparation	6	4	0	*	3	*	0	0	0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	2	1	0	*	1	*	0	0	*
326	Plastics and Rubber Products	23	18	0	0	Q	*	0	0	*
327	Nonmetallic Mineral Products	281	39	0	2	76	1	67	3	Q
327120	Clay Building Material and Refractories	2	*	0	*	2	*	0	0	*
327211	Flat Glass	5	1	0	0	4	*	0	0	0
327212	Other Pressed and Blown Glass and Glassware	1	*	0	*	1	*	0	0	0
327213	Glass Containers	12	3	0	*	9	*	0	0	*
327215	Glass Products from Purchased Glass	2	1	0	0	1	*	0	0	*
327310	Cements	84	11	0	*	12	*	49	2	10
327410	Lime	11	1	0	*	1	*	7	1	2
327420	Gypsum	15	1	0	*	14	*	0	0	*
327993	Mineral Wool	4	2	0	*	2	*	0	0	*
331	Primary Metals	56	20	0	*	34	*	*	*	*
331110	Iron and Steel Mills and Ferroalloys	17	7	0	*	9	*	*	0	*
3312	Steel Products from Purchased Steel	7	2	0	*	5	*	0	0	*
3313	Alumina and Aluminum Production and Processing	10	3	0	*	7	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	1	*	0	*	1	*	0	0	0
331315	Aluminum Sheet, Plate and Foils	5	2	0	*	3	*	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	3	1	0	*	2	*	0	0	*
3314	Nonferrous Metal (except Aluminum) Production and Processing	18	7	0	*	11	*	0	0	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	13	5	0	*	9	*	0	0	*
3315	Foundries	5	2	0	*	3	*	0	*	*
331511	Iron Foundries	2	*	0	*	1	*	0	*	*
331523	Nonferrous Metal Die-Casting Foundries	1	*	0	*	1	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	*	*	0	0	*	*	0	0	*
332	Fabricated Metal Products	39	24	0	*	13	1	0	0	*
333	Machinery	13	8	0	*	4	Q	0	0	*
334	Computer and Electronic Products	41	29	0		12	*	0	0	*
334413	Semiconductors and Related Devices	26	18	0	*	8	*	0	0	*
335	Electrical Equip., Appliances, and Components	4	2	0	*	Q	*	0	0	*
336	Transportation Equipment	24	14	0	*	10	*	0	0	*
336110	Automobile and Light Duty Motor Vehicle Manufacturing	2	1	0	*	1	*	0	0	*
3364	Aerospace Product and Parts	19	10	0	*	8	*	0	0	*

336411	Aircraft	6	3	0	*	3	*	0	0	*
337	Furniture and Related Products	3	1	0	0	1	*	0	0	*
339	Miscellaneous	9	5	0	*	3	*	0	0	*
	Total	1,948	316	2	14	745	16	103	3	749

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2022 Manufacturing Energy Consumption Survey*

Notes: Totals may not equal sum of components because of independent rounding. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy or were extracted from captive (onsite) mines or wells. During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed for the production of heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the *Fuel Consumption* estimates will be inflated.

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

^b *Net electricity* is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

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

^d *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.

^e 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).

^f *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.

* 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: CBDRB-FY25-0054).

Released: August 2025
Next MECS will be fielded in 2027

RSE Table 3.2 Relative standard errors for Table 3.2

Unit: Percentage

NAICS code ^a	Subsector and industry	Total	Net electricity ^b	Residual fuel oil	Distillate fuel oil ^c	Natural gas ^d	HGL (excluding natural gasoline) ^e	Coal	Coke and breeze	Other ^f
Total United States										
311	Food	2.4	3.2	40.5	20.2	3.5	36.4	0.0	0.0	1.5
3112	Grain and Oilseed Milling	2.4	2.9	15.6	6.0	4.1	16.5	0.0	X	0.1
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	2.7	3.0	0.0	7.6	3.0	11.7	X	X	16.5
3115	Dairy Product Manufacturing	3.9	4.0	74.0	21.3	3.4	77.0	X	X	59.4
3116	Animal Slaughtering and Processing	4.3	4.0	0.0	5.1	5.0	25.5	X	X	7.6
312	Beverage and Tobacco Products	40.1	17.8	X	22.2	49.8	9.8	0.0	X	27.7
3121	Beverages	41.2	18.7	X	25.0	50.9	10.9	0.0	X	27.8
3122	Tobacco	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
313	Textile Mills	6.6	6.5	X	78.1	10.5	6.4	42.2	X	12.8
314	Textile Product Mills	10.9	13.3	X	54.8	13.5	55.3	X	X	98.7
315	Apparel	11.2	11.3	X	96.8	17.9	27.5	X	X	0.0
316	Leather and Allied Products	33.0	4.9	X	34.7	44.4	13.6	X	X	91.3
321	Wood Products	2.7	6.5	37.3	11.3	7.2	12.8	99.0	X	2.5
321113	Sawmills	2.2	2.1	38.7	4.7	7.5	9.6	X	X	2.7
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	1.6	2.8	0.0	22.1	2.0	8.1	X	X	1.6
321219	Reconstituted Wood Products	1.1	3.2	0.0	0.0	2.7	26.6	X	X	0.1
3219	Other Wood Products	15.9	20.7	X	27.4	26.1	16.9	99.0	X	26.5
322	Paper	0.5	2.6	0.9	0.4	1.4	16.6	0.9	X	0.1
322110	Pulp Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322120	Paper Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
323	Printing and Related Support	11.5	12.3	99.0	58.4	13.8	22.2	X	X	88.6
324	Petroleum and Coal Products	0.1	0.1	15.9	2.5	0.2	0.2	0.0	0.0	0.1
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
324121	Asphalt Paving Mixture and Block	3.1	3.8	17.7	4.7	4.1	6.1	X	X	4.9
324122	Asphalt Shingle and Coating Materials	0.6	1.1	X	0.0	0.6	2.3	X	X	0.1
324191	Petroleum Lubricating Oil and Grease Manufacturing	10.4	1.8	X	1.3	12.5	9.3	X	X	0.3
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
325	Chemicals	2.0	3.4	0.0	10.1	2.9	4.9	0.1	X	1.2
325110	Petrochemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325120	Industrial Gases	8.0	16.9	X	7.2	0.2	66.9	X	X	11.2
325180	Other Basic Inorganic Chemical Manufacturing	2.5	2.9	X	24.6	3.3	26.1	0.0	X	3.2
325193	Ethyl Alcohol	2.6	2.6	X	3.1	2.7	0.5	0.0	X	18.8
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325199	All Other Basic Organic Chemical Manufacturing	2.7	2.5	0.0	11.3	3.9	10.7	0.0	X	2.7

325211	Plastics Materials and Resins	1.2	7.0	X	4.0	1.3	3.6	X	X	1.2
325212	Synthetic Rubber	0.1	0.5	X	0.0	0.1	0.0	0.0	X	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.8	2.2	X	0.0	0.1	0.0	X	X	0.0
325311	Nitrogenous Fertilizers	0.0	D	X	0.0	0.0	0.0	X	X	D
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
3254	Pharmaceuticals and Medicines	9.2	5.1	X	1.5	14.1	4.5	96.1	X	33.2
325412	Pharmaceutical Preparation	15.7	5.0	X	1.2	24.8	5.8	X	X	43.3
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
326	Plastics and Rubber Products	14.0	18.6	90.7	44.7	16.0	34.1	X	X	57.8
327	Nonmetallic Mineral Products	12.3	26.5	0.0	23.7	4.9	19.6	10.5	6.3	32.4
327120	Clay Building Material and Refractories	3.4	2.5	X	1.9	3.9	1.8	0.0	X	11.3
327211	Flat Glass	0.2	1.2	X	0.0	0.1	0.0	X	X	0.0
327212	Other Pressed and Blown Glass and Glassware	0.4	0.7	X	0.0	0.5	36.6	X	X	21.4
327213	Glass Containers	0.1	0.1	X	0.0	0.1	0.0	X	X	0.0
327215	Glass Products from Purchased Glass	73.0	2.1	X	43.7	1.7	28.1	X	X	95.0
327310	Cements	5.9	6.1	X	3.1	2.1	0.5	13.8	9.9	7.3
327410	Lime	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	2.9	3.7	0.0	4.7	2.9	6.4	X	X	0.0
327993	Mineral Wool	16.0	13.2	X	0.0	16.9	67.3	0.0	0.0	0.0
331	Primary Metals	0.2	0.3	0.0	11.7	0.2	4.1	0.1	0.4	0.1
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	3.3	3.5	X	37.3	3.6	9.0	X	0.0	3.4
3313	Alumina and Aluminum Production and Processing	0.2	0.2	X	0.0	0.1	16.9	X	X	0.1
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
331315	Aluminum Sheet, Plate and Foils	0.2	0.5	X	0.0	0.1	0.5	X	X	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	1.0	1.4	X	0.0	0.7	26.7	X	X	0.1
3314	Nonferrous Metal (except Aluminum) Production and Processing	1.3	0.9	X	3.8	1.2	5.9	X	13.7	16.1
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.3	0.1	X	0.0	0.4	8.1	X	0.0	0.0
3315	Foundries	1.4	1.3	X	2.8	1.3	4.9	66.3	7.8	1.6
331511	Iron Foundries	2.5	2.3	X	1.8	1.2	1.9	66.3	7.8	3.9
331523	Nonferrous Metal Die-Casting Foundries	2.7	2.3	X	6.3	3.1	13.9	X	X	0.8
331524	Aluminum Foundries, except Die-Casting	3.3	3.5	X	48.9	3.7	17.3	X	X	0.0
332	Fabricated Metal Products	23.5	15.5	99.5	34.4	29.7	21.6	X	X	69.7
333	Machinery	10.7	11.0	X	44.3	13.3	35.3	X	X	33.1
334	Computer and Electronic Products	11.9	15.1	0.0	29.3	8.8	42.9	X	X	45.3
334413	Semiconductors and Related Devices	2.6	2.1	0.0	8.8	5.9	4.6	X	X	54.1
335	Electrical Equip., Appliances, and Components	10.0	10.1	X	50.7	14.4	24.8	X	0.0	92.1
336	Transportation Equipment	5.4	6.3	96.5	6.5	6.7	26.7	X	X	3.7
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0.7	1.2	X	2.0	0.5	0.3	X	X	0.1
3364	Aerospace Product and Parts	4.0	5.3	X	2.9	3.1	14.5	X	X	2.2
336411	Aircraft	4.7	5.6	X	2.5	4.3	26.3	X	X	27.4
337	Furniture and Related Products	32.0	50.8	X	47.1	15.9	26.1	84.0	X	25.0
339	Miscellaneous	15.8	16.3	X	47.5	20.5	33.6	X	X	49.5
	Total	1.5	3.1	3.5	7.0	2.2	4.5	5.1	0.4	2.0
Northeast Census Region										
311	Food	12.4	13.8	3.8	59.9	15.8	40.8	X	X	22.7
3112	Grain and Oilseed Milling	2.6	3.8	X	62.9	3.0	64.4	X	X	64.5

311221	Wet Corn Milling and Starch Manufacturing	X	X	X	X	X	X	X	X	X
31131	Sugar Manufacturing	0.0	0.0	X	X	0.0	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	8.5	10.1	0.0	0.9	9.4	4.4	X	X	96.3
3115	Dairy Product Manufacturing	4.0	4.7	19.6	0.7	4.7	10.6	X	X	2.6
3116	Animal Slaughtering and Processing	4.2	4.3	X	21.6	5.2	28.2	X	X	0.0
312	Beverage and Tobacco Products	17.6	14.0	X	20.5	20.4	23.3	X	X	0.0
3121	Beverages	18.5	14.2	X	20.5	22.0	23.6	X	X	0.0
3122	Tobacco	0.0	0.0	X	X	0.0	0.0	X	X	X
313	Textile Mills	13.8	13.0	X	80.2	17.6	0.3	X	X	76.0
314	Textile Product Mills	55.8	58.7	X	X	67.6	66.2	X	X	99.3
315	Apparel	41.5	44.3	X	32.0	56.7	0.0	X	X	X
316	Leather and Allied Products	11.0	5.9	X	37.3	12.6	41.6	X	X	95.9
321	Wood Products	2.4	7.5	37.3	11.7	12.5	29.6	99.0	X	0.8
321113	Sawmills	1.5	2.3	38.7	12.6	5.9	17.2	X	X	0.2
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	2.5	20.0	0.0	7.3	19.9	16.5	X	X	0.1
321219	Reconstituted Wood Products	4.7	28.0	0.0	0.0	20.7	0.0	X	X	0.0
3219	Other Wood Products	12.3	14.3	X	55.0	11.9	53.3	99.0	X	21.7
322	Paper	3.2	8.8	2.5	0.3	4.8	19.5	0.0	X	0.1
322110	Pulp Mills	D	0.0	X	X	0.0	0.0	X	X	D
322120	Paper Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322130	Paperboard Mills	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
323	Printing and Related Support	23.8	23.9	99.0	62.6	27.9	51.2	X	X	92.9
324	Petroleum and Coal Products	1.0	0.9	29.5	3.0	3.3	1.0	X	X	0.9
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
324121	Asphalt Paving Mixture and Block	3.6	5.9	31.9	3.6	13.8	12.4	X	X	3.1
324122	Asphalt Shingle and Coating Materials	0.0	0.0	X	0.0	0.0	0.0	X	X	X
324191	Petroleum Lubricating Oil and Grease Manufacturing	3.8	4.8	X	0.0	4.1	31.7	X	X	0.0
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325	Chemicals	11.0	23.6	0.0	62.0	6.4	4.9	X	X	25.4
325110	Petrochemicals	0.0	0.0	X	0.0	X	0.0	X	X	X
325120	Industrial Gases	43.6	45.4	X	0.0	2.5	0.0	X	X	0.0
325180	Other Basic Inorganic Chemical Manufacturing	15.4	1.7	X	33.7	17.9	5.2	X	X	58.1
325193	Ethyl Alcohol	0.0	0.0	X	X	0.0	0.0	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	X	X	0.0	0.0	X	X	X
325199	All Other Basic Organic Chemical Manufacturing	5.1	10.5	0.0	10.2	4.6	23.5	X	X	0.1
325211	Plastics Materials and Resins	5.6	14.6	X	0.5	3.8	26.7	X	X	0.1
325212	Synthetic Rubber	18.8	35.6	X	X	12.9	0.0	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	X	X	0.0	0.0	X	X	0.0
325311	Nitrogenous Fertilizers	0.0	0.0	X	0.0	0.0	0.0	X	X	X
325312	Phosphatic Fertilizers	0.0	0.0	X	0.0	X	0.0	X	X	X
3254	Pharmaceuticals and Medicines	13.9	17.2	X	2.8	12.8	0.5	X	X	0.0
325412	Pharmaceutical Preparation	19.5	17.3	X	0.0	21.6	0.6	X	X	0.0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
326	Plastics and Rubber Products	25.0	26.6	92.1	49.8	30.3	56.1	X	X	83.3
327	Nonmetallic Mineral Products	44.7	7.1	0.0	44.5	4.0	41.9	0.0	X	91.4
327120	Clay Building Material and Refractories	6.3	1.9	X	0.1	11.4	1.4	0.0	X	0.2
327211	Flat Glass	0.0	0.0	X	X	0.0	0.0	X	X	X
327212	Other Pressed and Blown Glass and Glassware	1.0	1.7	X	0.0	0.8	60.3	X	X	0.0

327213	Glass Containers	0.1	0.1	X	0.0	0.1	0.0	X	X	0.0
327215	Glass Products from Purchased Glass	92.6	2.9	X	72.1	2.9	1.7	X	X	95.1
327310	Cements	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
327410	Lime	0.0	0.0	X	0.0	0.0	X	0.0	X	X
327420	Gypsum	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X
327993	Mineral Wool	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
331	Primary Metals	0.3	0.7	X	1.5	0.5	2.1	1.5	0.0	0.1
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	4.4	5.6	X	39.9	5.1	13.1	X	0.0	0.0
3313	Alumina and Aluminum Production and Processing	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	X	X	0.0	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	D	D	X	0.0	0.0	0.0	X	X	0.0
3314	Nonferrous Metal (except Aluminum) Production and Processing	1.4	2.4	X	0.9	1.8	9.6	X	0.0	21.1
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.4	0.4	X	0.0	0.5	0.1	X	0.0	X
3315	Foundries	2.9	3.5	X	18.2	2.6	1.5	66.3	X	3.5
331511	Iron Foundries	2.0	2.9	X	29.9	0.5	2.1	66.3	X	0.0
331523	Nonferrous Metal Die-Casting Foundries	3.0	3.8	X	X	2.9	0.2	X	X	71.1
331524	Aluminum Foundries, except Die-Casting	3.5	1.8	X	69.7	4.7	5.2	X	X	0.0
332	Fabricated Metal Products	33.3	24.8	99.5	63.5	44.7	56.2	X	X	54.1
333	Machinery	37.5	31.5	X	90.9	53.9	88.5	X	X	98.2
334	Computer and Electronic Products	8.8	9.9	0.0	11.1	8.8	74.5	X	X	93.8
334413	Semiconductors and Related Devices	2.2	2.9	0.0	0.0	1.2	0.0	X	X	0.0
335	Electrical Equip., Appliances, and Components	12.7	22.1	X	6.5	25.4	32.5	X	0.0	94.4
336	Transportation Equipment	19.0	22.5	X	8.2	18.0	67.4	X	X	35.6
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0.0	0.0	X	X	0.0	X	X	X	0.0
3364	Aerospace Product and Parts	5.1	11.2	X	0.0	3.7	13.5	X	X	0.0
336411	Aircraft	11.3	36.7	X	0.0	0.0	0.0	X	X	0.0
337	Furniture and Related Products	27.0	30.8	X	99.0	33.0	67.2	X	X	56.7
339	Miscellaneous	31.1	25.7	X	72.4	41.6	64.6	X	X	99.0
	Total	6.1	6.7	8.5	15.9	4.5	11.8	0.1	0.0	17.6

Midwest Census Region

311	Food	4.1	5.4	51.3	11.7	6.3	71.1	0.0	0.0	5.0
3112	Grain and Oilseed Milling	2.8	2.8	65.8	0.9	5.1	7.9	0.0	X	0.1
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	3.3	4.4	X	24.7	3.9	39.0	X	X	71.7
3115	Dairy Product Manufacturing	8.7	6.6	79.2	35.3	8.0	98.4	X	X	70.7
3116	Animal Slaughtering and Processing	8.2	9.1	0.0	8.7	8.7	48.6	X	X	0.3
312	Beverage and Tobacco Products	6.5	9.2	X	3.8	6.4	38.8	X	X	97.2
3121	Beverages	6.5	9.2	X	3.8	6.4	38.8	X	X	97.2
3122	Tobacco	0.0	0.0	X	X	0.0	X	X	X	X
313	Textile Mills	7.7	7.7	X	0.0	8.9	34.1	X	X	X
314	Textile Product Mills	36.6	32.4	X	X	43.6	63.7	X	X	X
315	Apparel	43.8	42.6	X	X	46.8	X	X	X	X
316	Leather and Allied Products	46.6	8.2	X	0.0	53.8	7.6	X	X	0.0
321	Wood Products	10.5	4.7	X	52.2	4.3	22.5	X	X	26.1

321113	Sawmills	7.7	7.1	X	36.2	17.7	6.8	X	X	8.7
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	1.2	2.7	X	22.7	1.7	17.3	X	X	0.2
321219	Reconstituted Wood Products	0.6	0.6	X	0.0	1.2	9.5	X	X	0.1
3219	Other Wood Products	24.1	8.7	X	42.9	11.6	35.0	X	X	52.7
322	Paper	2.8	6.0	0.0	1.3	4.5	30.9	7.1	X	0.0
322110	Pulp Mills	D	0.0	X	0.0	0.0	0.0	X	X	D
322120	Paper Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
323	Printing and Related Support	20.5	24.4	X	X	21.0	10.3	X	X	6.9
324	Petroleum and Coal Products	0.3	0.5	0.0	1.4	0.5	0.3	X	0.0	0.5
324110	Petroleum Refineries	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
324121	Asphalt Paving Mixture and Block	8.5	17.2	0.0	2.8	4.9	7.9	X	X	31.6
324122	Asphalt Shingle and Coating Materials	0.6	1.7	X	0.0	0.6	5.2	X	X	0.0
324191	Petroleum Lubricating Oil and Grease Manufacturing	1.8	1.5	X	0.3	2.0	4.5	X	X	21.3
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	X	0.0	0.0	0.0	X	0.0	0.0
325	Chemicals	6.6	3.8	0.0	7.7	8.8	41.1	0.1	X	6.8
325110	Petrochemicals	0.0	0.0	X	X	X	0.0	X	X	X
325120	Industrial Gases	5.1	5.2	X	X	15.0	0.0	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	15.0	5.4	X	37.7	18.9	13.7	X	X	15.2
325193	Ethyl Alcohol	2.7	2.7	X	3.3	2.9	1.8	0.0	X	19.4
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325199	All Other Basic Organic Chemical Manufacturing	2.1	2.5	X	16.3	3.6	20.3	X	X	1.9
325211	Plastics Materials and Resins	1.7	3.1	X	24.3	3.2	4.6	X	X	0.1
325212	Synthetic Rubber	0.0	0.0	X	X	0.0	0.0	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	X	X	0.0	0.0	X	X	X
325311	Nitrogenous Fertilizers	0.0	D	X	0.0	0.0	0.0	X	X	D
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
3254	Pharmaceuticals and Medicines	18.6	6.9	X	11.7	27.9	34.5	96.1	X	41.8
325412	Pharmaceutical Preparation	33.3	6.7	X	14.6	45.8	63.2	X	X	67.2
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	X	0.0	0.0	0.0	X	X	X
326	Plastics and Rubber Products	32.2	40.4	99.0	87.5	33.6	66.8	X	X	97.2
327	Nonmetallic Mineral Products	15.6	4.6	X	22.0	5.9	38.8	0.0	15.6	54.3
327120	Clay Building Material and Refractories	4.9	7.2	X	5.8	4.9	4.2	X	X	15.1
327211	Flat Glass	0.3	2.3	X	0.0	0.1	0.0	X	X	X
327212	Other Pressed and Blown Glass and Glassware	1.1	0.9	X	0.0	1.3	0.0	X	X	0.0
327213	Glass Containers	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327215	Glass Products from Purchased Glass	1.9	2.2	X	0.0	2.9	19.3	X	X	0.0
327310	Cements	9.8	5.0	X	6.7	0.1	0.0	0.0	77.0	24.9
327410	Lime	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327993	Mineral Wool	32.7	26.9	X	0.0	34.9	79.4	X	0.0	0.0
331	Primary Metals	0.2	0.3	0.0	0.3	0.2	6.3	0.0	0.4	0.1
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	2.9	1.7	X	4.3	4.1	15.6	X	X	1.1
3313	Alumina and Aluminum Production and Processing	0.4	0.2	X	0.0	0.3	29.5	X	X	0.1
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	D	D	X	0.0	1.7	42.6	X	X	0.1

3314	Nonferrous Metal (except Aluminum) Production and Processing	4.7	1.7	X	11.6	3.1	7.2	X	49.0	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
3315	Foundries	2.0	1.8	X	3.4	1.7	9.8	X	9.7	3.2
331511	Iron Foundries	3.6	3.2	X	0.5	1.7	3.3	X	9.7	14.3
331523	Nonferrous Metal Die-Casting Foundries	3.4	3.3	X	0.0	3.7	25.7	X	X	0.3
331524	Aluminum Foundries, except Die-Casting	4.0	5.1	X	0.0	3.9	38.5	X	X	0.0
332	Fabricated Metal Products	16.4	13.9	X	62.3	20.9	37.3	X	X	61.9
333	Machinery	16.3	17.7	X	63.9	17.3	32.3	X	X	37.7
334	Computer and Electronic Products	47.5	55.2	X	31.5	27.7	47.1	X	X	21.8
334413	Semiconductors and Related Devices	2.8	2.2	X	0.0	4.0	0.1	X	X	0.0
335	Electrical Equip., Appliances, and Components	24.4	22.8	X	90.4	28.8	38.6	X	X	54.3
336	Transportation Equipment	8.8	10.6	X	16.0	10.0	41.7	X	X	3.0
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0.1	0.1	X	0.0	0.1	0.0	X	X	0.0
3364	Aerospace Product and Parts	4.2	7.9	X	5.9	1.6	5.6	X	X	4.3
336411	Aircraft	4.0	4.4	X	13.1	3.8	7.9	X	X	31.0
337	Furniture and Related Products	19.7	20.1	X	61.7	24.5	40.4	X	X	52.4
339	Miscellaneous	28.3	31.2	X	63.2	31.9	50.5	X	X	71.3
	Total	2.3	5.3	9.7	11.4	3.3	15.4	0.2	0.4	5.4

South Census Region

311	Food	3.6	4.6	0.0	18.3	5.6	22.6	0.0	X	0.2
3112	Grain and Oilseed Milling	3.9	10.9	0.0	8.5	3.8	10.8	0.0	X	0.0
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
31131	Sugar Manufacturing	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	3.4	5.0	X	2.2	3.3	19.8	X	X	13.1
3115	Dairy Product Manufacturing	3.1	11.3	X	17.0	1.5	36.2	X	X	62.7
3116	Animal Slaughtering and Processing	5.4	3.5	X	6.0	7.6	33.1	X	X	25.2
312	Beverage and Tobacco Products	52.6	34.8	X	12.3	60.3	9.7	0.0	X	27.7
3121	Beverages	54.2	38.4	X	18.2	61.6	14.1	0.0	X	29.3
3122	Tobacco	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
313	Textile Mills	7.7	7.2	X	35.6	13.1	23.9	42.2	X	0.1
314	Textile Product Mills	13.4	16.3	X	54.8	15.2	57.7	X	X	96.3
315	Apparel	12.2	14.0	X	96.8	15.4	39.4	X	X	0.0
316	Leather and Allied Products	5.5	8.0	X	48.1	3.7	24.2	X	X	25.6
321	Wood Products	3.7	11.1	X	11.1	12.5	22.1	X	X	0.9
321113	Sawmills	1.0	2.8	X	6.4	6.6	17.2	X	X	0.4
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0.7	3.1	X	23.9	0.7	11.1	X	X	0.7
321219	Reconstituted Wood Products	0.8	4.8	X	0.0	0.1	37.6	X	X	0.0
3219	Other Wood Products	29.3	39.5	X	47.6	51.3	26.3	X	X	17.8
322	Paper	0.6	4.8	0.0	0.5	1.7	30.1	0.0	X	0.1
322110	Pulp Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322120	Paper Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
323	Printing and Related Support	21.1	19.9	X	97.9	32.7	37.4	X	X	X
324	Petroleum and Coal Products	0.1	0.1	23.3	4.8	0.3	0.1	X	X	0.1
324110	Petroleum Refineries	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
324121	Asphalt Paving Mixture and Block	7.5	3.8	23.3	12.0	6.9	5.6	X	X	23.3
324122	Asphalt Shingle and Coating Materials	1.1	1.9	X	0.0	1.0	4.1	X	X	0.0

324191	Petroleum Lubricating Oil and Grease Manufacturing	13.3	2.7	X	1.3	15.3	5.7	X	X	0.5
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325	Chemicals	1.9	2.4	X	2.3	2.7	1.3	0.0	X	0.9
325110	Petrochemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325120	Industrial Gases	1.6	6.3	X	8.6	0.1	92.0	X	X	12.5
325180	Other Basic Inorganic Chemical Manufacturing	2.7	3.9	X	32.0	3.4	31.2	X	X	2.6
325193	Ethyl Alcohol	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325199	All Other Basic Organic Chemical Manufacturing	3.3	3.2	X	13.6	5.0	17.9	0.0	X	3.2
325211	Plastics Materials and Resins	1.4	11.2	X	3.8	1.4	3.8	X	X	1.6
325212	Synthetic Rubber	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.8	2.3	X	0.0	0.1	0.0	X	X	0.0
325311	Nitrogenous Fertilizers	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325312	Phosphatic Fertilizers	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
3254	Pharmaceuticals and Medicines	3.9	5.7	X	1.0	2.8	0.8	X	X	0.1
325412	Pharmaceutical Preparation	2.8	3.6	X	0.1	2.7	0.0	X	X	0.0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
326	Plastics and Rubber Products	18.1	19.9	X	47.1	24.0	50.5	X	X	76.5
327	Nonmetallic Mineral Products	12.6	48.8	X	37.7	3.5	11.8	3.7	12.7	0.8
327120	Clay Building Material and Refractories	4.9	3.3	X	2.6	5.5	2.2	X	X	11.4
327211	Flat Glass	0.4	2.2	X	0.0	0.1	0.0	X	X	0.0
327212	Other Pressed and Blown Glass and Glassware	0.4	0.4	X	0.0	0.2	50.7	X	X	73.0
327213	Glass Containers	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327215	Glass Products from Purchased Glass	3.2	4.1	X	0.0	3.3	49.8	X	X	0.0
327310	Cements	2.7	3.3	X	4.2	3.9	2.2	5.2	20.5	0.8
327410	Lime	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	5.7	6.9	X	7.6	5.6	10.8	X	X	0.0
327993	Mineral Wool	0.5	1.6	X	0.0	0.0	0.2	0.0	0.0	0.0
331	Primary Metals	0.4	0.4	0.0	20.7	0.3	2.4	0.0	0.7	0.3
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	6.1	8.2	X	39.1	3.4	10.4	X	X	46.1
3313	Alumina and Aluminum Production and Processing	0.2	0.3	X	0.0	0.2	2.0	X	X	0.0
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
331315	Aluminum Sheet, Plate and Foils	0.5	1.1	X	0.0	0.3	1.4	X	X	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	D	D	X	0.0	0.8	4.4	X	X	0.0
3314	Nonferrous Metal (except Aluminum) Production and Processing	1.2	1.7	X	0.2	1.6	6.7	X	0.0	52.2
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.7	0.2	X	0.0	2.3	19.4	X	X	0.0
3315	Foundries	2.3	2.1	X	3.2	3.3	4.4	X	2.1	0.7
331511	Iron Foundries	2.6	3.7	X	4.1	2.6	5.0	X	2.1	0.0
331523	Nonferrous Metal Die-Casting Foundries	5.6	3.2	X	38.0	6.8	7.8	X	X	28.4
331524	Aluminum Foundries, except Die-Casting	14.8	6.3	X	0.0	21.9	12.6	X	X	X
332	Fabricated Metal Products	50.2	42.7	X	58.4	55.4	36.0	X	X	95.6
333	Machinery	19.1	19.2	X	49.4	26.5	67.7	X	X	69.3
334	Computer and Electronic Products	9.7	9.0	X	54.5	13.6	51.7	X	X	0.0
334413	Semiconductors and Related Devices	1.1	1.4	X	0.0	0.0	0.0	X	X	0.0
335	Electrical Equip., Appliances, and Components	17.5	16.6	X	31.9	21.3	44.1	X	X	69.0
336	Transportation Equipment	10.5	11.6	96.5	7.8	14.5	28.0	X	X	4.0
336110	Automobile and Light Duty Motor Vehicle Manufacturing	1.4	2.0	X	0.0	1.2	0.0	X	X	0.1

3364	Aerospace Product and Parts	12.9	13.6	X	8.6	12.1	36.8	X	X	2.7
336411	Aircraft	1.8	2.3	X	3.3	1.0	53.0	X	X	26.5
337	Furniture and Related Products	53.3	71.0	X	35.8	29.2	41.2	84.0	X	30.0
339	Miscellaneous	22.8	23.1	X	86.2	35.6	57.1	X	X	51.0
	Total	2.0	5.4	4.9	10.5	3.7	4.2	2.1	5.2	0.2

West Census Region

311	Food	4.5	7.7	41.7	41.7	4.1	11.7	0.0	0.0	16.7
3112	Grain and Oilseed Milling	4.4	8.3	41.7	35.3	5.9	39.6	X	X	0.2
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	X	X	0.0	0.0	X	X	0.0
31131	Sugar Manufacturing	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	5.3	6.0	X	32.1	5.7	18.5	X	X	24.5
3115	Dairy Product Manufacturing	6.7	7.9	X	61.3	6.8	0.8	X	X	47.7
3116	Animal Slaughtering and Processing	5.0	7.6	X	3.5	4.8	63.9	X	X	0.1
312	Beverage and Tobacco Products	14.4	6.2	X	48.7	22.3	17.8	X	X	30.6
3121	Beverages	14.4	6.2	X	48.7	22.3	17.8	X	X	30.6
3122	Tobacco	0.0	0.0	X	X	0.0	X	X	X	X
313	Textile Mills	21.4	37.7	X	X	5.9	5.5	X	X	0.0
314	Textile Product Mills	34.8	49.9	X	X	37.7	98.8	X	X	X
315	Apparel	30.2	32.1	X	X	49.5	X	X	X	X
316	Leather and Allied Products	38.8	20.5	X	X	70.7	0.0	X	X	X
321	Wood Products	5.6	5.5	X	11.4	10.7	16.9	X	X	7.3
321113	Sawmills	7.0	4.7	X	5.7	23.7	17.8	X	X	8.4
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	9.0	7.8	X	49.5	4.9	16.6	X	X	13.9
321219	Reconstituted Wood Products	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
3219	Other Wood Products	25.7	22.7	X	44.7	34.4	34.0	X	X	46.0
322	Paper	2.0	5.6	0.0	2.0	5.3	34.6	0.0	X	0.0
322110	Pulp Mills	0.0	0.0	0.0	0.0	0.0	X	X	X	0.0
322120	Paper Mills	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
323	Printing and Related Support	31.2	27.7	X	X	41.3	46.7	X	X	X
324	Petroleum and Coal Products	0.1	0.2	23.7	10.6	0.1	0.4	0.0	X	0.1
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
324121	Asphalt Paving Mixture and Block	4.1	3.3	43.1	24.0	5.1	12.7	X	X	14.6
324122	Asphalt Shingle and Coating Materials	1.8	1.0	X	0.0	2.2	0.8	X	X	61.4
324191	Petroleum Lubricating Oil and Grease Manufacturing	0.0	0.0	X	X	0.0	0.0	X	X	X
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	X	X	0.0	0.0	0.0	X	X
325	Chemicals	1.4	3.2	X	23.4	1.6	7.0	0.0	X	0.7
325110	Petrochemicals	0.0	0.0	X	X	X	X	X	X	X
325120	Industrial Gases	1.4	2.7	X	X	0.2	69.1	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	1.0	1.5	X	74.0	2.7	38.0	0.0	X	1.0
325193	Ethyl Alcohol	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325199	All Other Basic Organic Chemical Manufacturing	0.7	2.0	X	55.5	0.7	0.3	X	X	1.8
325211	Plastics Materials and Resins	34.7	39.4	X	13.8	31.6	20.5	X	X	0.1
325212	Synthetic Rubber	0.0	0.0	X	X	0.0	0.0	X	X	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	X	X	0.0	0.0	X	X	X
325311	Nitrogenous Fertilizers	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0

325312	Phosphatic Fertilizers	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
3254	Pharmaceuticals and Medicines	6.6	9.9	X	1.9	5.1	5.4	X	X	0.0
325412	Pharmaceutical Preparation	10.1	15.2	X	6.5	7.0	49.0	X	X	X
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
326	Plastics and Rubber Products	31.0	31.4	X	X	68.5	66.3	X	X	99.0
327	Nonmetallic Mineral Products	37.1	34.8	X	38.9	24.2	47.7	29.9	0.0	67.2
327120	Clay Building Material and Refractories	2.5	4.1	X	8.0	2.6	9.2	X	X	30.1
327211	Flat Glass	0.0	0.0	X	X	0.0	0.0	X	X	X
327212	Other Pressed and Blown Glass and Glassware	3.5	14.6	X	0.0	0.3	7.8	X	X	X
327213	Glass Containers	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327215	Glass Products from Purchased Glass	2.8	5.0	X	X	1.5	21.0	X	X	21.4
327310	Cements	23.1	23.6	X	0.0	2.2	0.0	34.1	0.0	0.0
327410	Lime	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	0.5	2.9	X	5.2	0.4	0.0	X	X	0.0
327993	Mineral Wool	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
331	Primary Metals	2.2	1.3	X	4.2	2.8	3.0	0.0	0.0	4.4
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
3312	Steel Products from Purchased Steel	18.2	14.6	X	3.3	20.7	38.4	X	X	4.9
3313	Alumina and Aluminum Production and Processing	0.5	0.6	X	0.0	0.5	0.6	X	X	0.0
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	X	0.0	0.0	0.0	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	X	0.0	0.0	0.0	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	1.5	2.1	X	0.0	1.4	1.3	X	X	0.0
3314	Nonferrous Metal (except Aluminum) Production and Processing	1.2	0.3	X	10.6	1.8	0.4	X	X	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.1	0.2	X	0.0	0.1	0.1	X	X	0.0
3315	Foundries	1.9	1.6	X	9.1	2.5	1.5	X	0.0	0.1
331511	Iron Foundries	0.6	0.9	X	0.0	1.0	1.6	X	0.0	0.0
331523	Nonferrous Metal Die-Casting Foundries	6.5	5.5	X	42.1	7.0	8.1	X	X	9.5
331524	Aluminum Foundries, except Die-Casting	2.2	3.3	X	X	1.9	0.6	X	X	0.0
332	Fabricated Metal Products	22.1	24.7	X	61.7	31.4	37.7	X	X	89.4
333	Machinery	30.5	32.3	X	92.0	40.8	58.6	X	X	89.5
334	Computer and Electronic Products	11.0	9.6	X	42.5	19.3	7.2	X	X	68.6
334413	Semiconductors and Related Devices	6.4	5.1	X	51.2	14.7	15.3	X	X	73.0
335	Electrical Equip., Appliances, and Components	41.0	36.8	X	67.3	57.6	98.4	X	X	91.0
336	Transportation Equipment	6.1	6.8	X	38.3	6.3	43.7	X	X	11.1
336110	Automobile and Light Duty Motor Vehicle Manufacturing	10.3	14.5	X	91.1	3.4	27.9	X	X	0.0
3364	Aerospace Product and Parts	4.9	5.0	X	4.2	5.8	19.5	X	X	7.8
336411	Aircraft	13.6	14.9	X	5.6	12.9	33.5	X	X	47.0
337	Furniture and Related Products	33.6	30.1	X	X	45.4	49.0	X	X	94.3
339	Miscellaneous	22.7	21.9	X	55.7	28.1	50.6	X	X	62.2
	Total	5.4	5.3	4.4	21.1	2.8	5.1	19.6	0.0	8.4

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2022 Manufacturing Energy Consumption Survey*

Notes: Totals may not equal sum of components because of independent rounding. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy or were extracted from captive (onsite) mines or wells. During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed for the production of heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the *Fuel Consumption* estimates will be inflated.

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

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

^b *Net electricity* is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

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

^d *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.

^e 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).

^f *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.

* 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).