

Released: February 2021
 Next MECS will be fielded in 2022.

Table 3.2 Fuel Consumption, 2018;

Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

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	1,144	314	*	14	669	7	47	1	91
3112	Grain and Oilseed Milling	246	50	*	1	149	*	19	0	27
311221	Wet Corn Milling	111	21	0	*	61	*	10	0	18
31131	Sugar Manufacturing	106	4	*	*	33	*	29	1	39
3114	Fruit and Vegetable Preserving and Specialty Food	129	34	*	*	92	1	0	0	2
3115	Dairy Product	122	39	*	1	79	2	0	0	1
3116	Animal Slaughtering and Processing	278	108	*	3	149	2	0	0	16
312	Beverage and Tobacco Products	118	49	*	*	54	1	*	0	Q
3121	Beverages	111	46	*	*	50	1	*	0	Q
3122	Tobacco	7	3	*	*	4	*	0	0	*
313	Textile Mills	64	37	*	*	23	1	1	0	1
314	Textile Product Mills	22	10	0	*	11	*	*	0	*
315	Apparel	4	2	0	*	2	*	*	0	*
316	Leather and Allied Products	2	1	0	*	1	*	0	0	*
321	Wood Products	387	71	*	11	67	4	*	0	233
321113	Sawmills	161	25	*	5	18	*	0	0	114
3212	Veneer, Plywood, and Engineered Woods	139	23	*	1	32	1	*	0	83
321219	Reconstituted Wood Products	78	15	*	*	20	*	0	0	42
3219	Other Wood Products	78	22	*	Q	15	1	*	0	35
322	Paper	2,039	174	9	4	572	3	54	0	1,223
322110	Pulp Mills	292	5	3	1	40	*	*	0	242
322121	Paper Mills, except Newsprint	696	53	3	2	224	1	39	0	375
322122	Newsprint Mills	35	17	0	*	5	*	0	0	12
322130	Paperboard Mills	897	56	3	2	235	*	13	0	588
323	Printing and Related Support	59	34	*	*	24	1	0	0	*
324	Petroleum and Coal Products	3,517	178	3	14	1,077	19	*	0	2,226
324110	Petroleum Refineries	3,375	165	2	5	994	16	0	0	2,192
324121	Asphalt Paving Mixture and Block	64	5	1	8	41	3	*	0	6
324122	Asphalt Shingle and Coating Materials	18	3	0	*	14	*	0	0	*
324191	Petroleum Lubricating Oil and Grease Products	25	5	0	*	19	*	0	0	1
324199	Other Petroleum and Coal Products	35	*	0	*	8	*	0	0	27

325	Chemicals	3,813	501	3	6	2,344	7	113	2	838
325110	Petrochemicals	569	24	0	1	304	1	0	0	240
325120	Industrial Gases	161	74	0	*	83	*	0	0	4
325180	Other Basic Inorganic Chemicals	425	101	0	*	218	*	33	2	70
325193	Ethyl Alcohol	453	37	0	*	359	*	44	0	13
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	88	11	0	*	51	*	0	0	26
325199	Other Basic Organic Chemicals	742	65	2	1	401	*	30	0	243
325211	Plastics Materials and Resins	668	58	0	D	418	D	D	0	186
325212	Synthetic Rubber	35	5	0	*	19	*	2	0	9
325220	Artificial and Synthetic Fibers and Filaments	33	9	0	*	23	*	*	0	*
325311	Nitrogenous Fertilizers	233	18	0	*	213	*	0	0	2
325312	Phosphatic Fertilizers	33	D	*	D	24	*	D	0	*
3254	Pharmaceuticals and Medicines	114	36	0	1	62	*	*	0	16
325412	Pharmaceutical Preparation	66	21	0	*	30	*	*	0	14
325992	Photographic Film, Paper, Plate, and Chemicals	8	3	*	*	3	*	0	0	2
326	Plastics and Rubber Products	256	168	*	Q	83	3	0	0	*
327	Nonmetallic Mineral Products	821	129	*	20	348	2	189	6	125
327120	Clay Building Material and Refractories	47	6	0	*	36	*	3	0	1
327211	Flat Glass	47	5	0	*	41	*	0	0	1
327212	Other Pressed and Blown Glass and Glassware	31	7	0	*	22	*	0	0	1
327213	Glass Containers	54	12	0	*	42	*	0	0	*
327215	Glass Products from Purchased Glass	21	13	0	*	8	*	0	0	*
327310	Cements	296	39	0	1	58	*	106	2	90
327410	Lime	106	5	0	1	18	*	63	2	17
327420	Gypsum	59	5	0	1	52	*	0	0	*
327993	Mineral Wool	33	11	0	*	22	*	*	*	*
331	Primary Metals	1,588	385	*	6	639	3	26	328	200
331110	Iron and Steel Mills and Ferroalloys	1,141	190	*	4	411	*	26	312	197
3312	Steel Products from Purchased Steel	51	24	0	*	25	*	*	1	1
3313	Alumina and Aluminum	207	90	0	1	116	1	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	21	3	0	*	18	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	73	18	0	*	54	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	24	7	0	*	17	*	0	0	*
3314	Nonferrous Metals, except Aluminum	95	45	0	*	42	1	0	5	2
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	44	27	0	*	16	*	0	*	1
3315	Foundries	92	37	*	*	44	1	*	10	*
331511	Iron Foundries	40	18	0	*	12	*	*	10	*
331523	Nonferrous Metal Die-Casting Foundries	22	7	*	*	15	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	9	3	0	*	6	*	0	0	*
332	Fabricated Metal Products	254	124	0	Q	124	3	*	0	2
333	Machinery	146	80	*	2	59	3	*	0	1
334	Computer and Electronic Products	107	76	*	*	30	*	0	0	*
334413	Semiconductors and Related Devices	53	40	*	*	14	*	0	0	*

335	Electrical Equip., Appliances, and Components	77	38	*	*	37	1	0	0	Q
336	Transportation Equipment	345	172	2	4	157	3	0	*	7
336111	Automobiles	34	14	0	*	18	*	0	0	2
336112	Light Trucks and Utility Vehicles	41	14	0	*	25	*	0	0	1
3364	Aerospace Product and Parts	64	33	*	*	27	*	0	0	4
336411	Aircraft	17	9	0	*	6	*	0	0	2
337	Furniture and Related Products	37	16	0	*	15	1	*	0	5
339	Miscellaneous	61	33	0	*	25	1	*	0	1
	Total	14,859	2,591	17	86	6,362	64	432	337	4,970

Northeast Census Region

311	Food	81	27	*	Q	48	1	0	0	*
3112	Grain and Oilseed Milling	4	2	0	*	2	*	0	0	0
311221	Wet Corn Milling	*	*	0	0	*	*	0	0	0
31131	Sugar Manufacturing	2	*	0	*	2	*	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	12	3	*	*	9	*	0	0	*
3115	Dairy Product	17	5	*	*	11	*	0	0	*
3116	Animal Slaughtering and Processing	11	4	0	*	7	*	0	0	*
312	Beverage and Tobacco Products	13	6	*	*	7	*	0	0	*
3121	Beverages	12	6	*	*	6	*	0	0	*
3122	Tobacco	1	*	*	*	1	*	0	0	*
313	Textile Mills	6	2	0	*	4	1	0	0	*
314	Textile Product Mills	2	1	0	*	1	*	*	0	*
315	Apparel	1	1	0	0	1	*	*	0	0
316	Leather and Allied Products	1	*	0	*	*	*	0	0	0
321	Wood Products	52	5	*	1	5	1	*	0	39
321113	Sawmills	8	1	*	1	*	*	0	0	6
3212	Veneer, Plywood, and Engineered Woods	29	1	*	*	2	*	*	0	27
321219	Reconstituted Wood Products	17	1	*	*	2	*	0	0	15
3219	Other Wood Products	13	3	*	*	3	*	*	0	Q
322	Paper	191	15	3	*	77	1	8	0	87
322110	Pulp Mills	D	1	*	*	4	*	0	0	D
322121	Paper Mills, except Newsprint	118	3	2	*	49	*	7	0	55
322122	Newsprint Mills	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	23	5	*	*	15	*	0	0	3
323	Printing and Related Support	9	5	*	*	3	*	0	0	*
324	Petroleum and Coal Products	159	9	*	2	42	*	0	0	105
324110	Petroleum Refineries	136	7	*	*	30	*	0	0	99
324121	Asphalt Paving Mixture and Block	15	1	*	2	9	*	0	0	3
324122	Asphalt Shingle and Coating Materials	2	*	0	*	2	*	0	0	*
324191	Petroleum Lubricating Oil and Grease Products	1	*	0	*	1	*	0	0	*
324199	Other Petroleum and Coal Products	5	*	0	*	2	*	0	0	3
325	Chemicals	151	38	*	1	95	*	5	0	12

325110	Petrochemicals	*	*	0	*	*	*	0	0	*
325120	Industrial Gases	12	9	0	0	1	*	0	0	1
325180	Other Basic Inorganic Chemicals	13	6	0	*	6	*	0	0	2
325193	Ethyl Alcohol	7	1	0	*	7	*	0	0	*
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	3	*	0	0	2	0	0	0	*
325199	Other Basic Organic Chemicals	37	5	*	*	25	*	5	0	2
325211	Plastics Materials and Resins	10	3	0	*	5	*	0	0	2
325212	Synthetic Rubber	*	*	0	*	*	*	0	0	*
325220	Artificial and Synthetic Fibers and Filaments	*	*	0	*	*	*	0	0	*
325311	Nitrogenous Fertilizers	1	*	0	*	*	*	0	0	*
325312	Phosphatic Fertilizers	*	*	0	*	0	*	0	0	0
3254	Pharmaceuticals and Medicines	32	8	0	*	23	*	0	0	1
325412	Pharmaceutical Preparation	13	5	0	*	8	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	4	1	*	*	1	*	0	0	2
326	Plastics and Rubber Products	28	16	0	*	11	Q	0	0	*
327	Nonmetallic Mineral Products	81	13	0	4	52	*	5	0	7
327120	Clay Building Material and Refractories	6	1	0	*	3	*	2	0	*
327211	Flat Glass	4	*	0	0	4	*	0	0	0
327212	Other Pressed and Blown Glass and Glassware	5	1	0	*	4	*	0	0	*
327213	Glass Containers	7	2	0	*	6	*	0	0	*
327215	Glass Products from Purchased Glass	3	1	0	*	2	*	0	0	*
327310	Cements	24	3	0	*	15	*	2	0	4
327410	Lime	5	*	0	*	3	0	2	0	*
327420	Gypsum	6	*	0	*	6	*	0	0	0
327993	Mineral Wool	3	*	0	*	3	*	0	0	0
331	Primary Metals	204	37	0	1	72	*	*	31	62
331110	Iron and Steel Mills and Ferroalloys	158	22	0	*	44	*	*	30	62
3312	Steel Products from Purchased Steel	4	2	0	*	2	*	*	*	*
3313	Alumina and Aluminum	20	5	0	*	15	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	1	*	0	*	*	*	0	0	0
331315	Aluminum Sheet, Plate and Foils	9	2	0	*	7	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	5	1	0	*	4	*	0	0	*
3314	Nonferrous Metals, except Aluminum	14	5	0	*	7	*	0	1	1
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	1	*	0	0	*	*	0	0	0
3315	Foundries	8	3	0	*	4	*	*	*	*
331511	Iron Foundries	3	2	0	*	1	*	*	*	*
331523	Nonferrous Metal Die-Casting Foundries	1	*	0	0	1	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	*	0	*	*	*	0	0	*
332	Fabricated Metal Products	46	21	0	*	24	Q	0	0	*
333	Machinery	14	8	*	*	5	1	*	0	*
334	Computer and Electronic Products	23	15	*	*	8	*	0	0	*
334413	Semiconductors and Related Devices	6	3	*	*	2	*	0	0	*
335	Electrical Equip., Appliances, and Components	12	5	0	*	7	*	0	0	*

336	Transportation Equipment	34	Q	*	*	17	*	0	0	*
336111	Automobiles	*	*	0	0	*	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	*	0	0	*	0	0	0	0
3364	Aerospace Product and Parts	9	3	*	*	6	*	0	0	*
336411	Aircraft	1	1	0	*	1	*	0	0	*
337	Furniture and Related Products	5	2	0	*	2	*	0	0	*
339	Miscellaneous	17	7	0	*	9	*	0	0	*
	Total	1,130	250	4	15	490	9	19	31	313

Midwest Census Region

311	Food	485	113	*	2	304	1	42	1	22
3112	Grain and Oilseed Milling	188	36	*	1	116	*	18	0	17
311221	Wet Corn Milling	99	19	0	*	57	*	10	0	13
31131	Sugar Manufacturing	35	2	*	*	8	*	23	1	*
3114	Fruit and Vegetable Preserving and Specialty Food	33	12	0	*	19	*	0	0	*
3115	Dairy Product	47	15	*	*	31	*	0	0	*
3116	Animal Slaughtering and Processing	90	26	*	1	61	*	0	0	2
312	Beverage and Tobacco Products	29	5	*	*	12	*	0	0	Q
3121	Beverages	29	5	*	*	12	*	0	0	Q
3122	Tobacco	*	*	0	0	*	0	0	0	0
313	Textile Mills	2	1	0	*	1	*	0	0	*
314	Textile Product Mills	1	*	0	0	*	0	0	0	0
315	Apparel	*	*	0	0	*	0	0	0	0
316	Leather and Allied Products	1	*	0	*	1	*	0	0	*
321	Wood Products	38	10	*	Q	10	1	0	0	13
321113	Sawmills	6	2	*	*	1	*	0	0	4
3212	Veneer, Plywood, and Engineered Woods	12	3	0	*	4	*	0	0	6
321219	Reconstituted Wood Products	8	2	0	*	3	*	0	0	3
3219	Other Wood Products	19	6	0	Q	5	*	0	0	4
322	Paper	274	46	*	*	110	1	13	0	103
322110	Pulp Mills	2	1	0	*	1	*	0	0	*
322121	Paper Mills, except Newsprint	172	18	*	*	54	*	12	0	88
322122	Newsprint Mills	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	54	9	*	*	29	*	1	0	16
323	Printing and Related Support	26	13	0	*	13	*	0	0	*
324	Petroleum and Coal Products	518	36	*	3	136	5	0	0	338
324110	Petroleum Refineries	484	33	0	1	117	5	0	0	328
324121	Asphalt Paving Mixture and Block	13	1	*	2	10	*	0	0	*
324122	Asphalt Shingle and Coating Materials	5	1	0	*	4	*	0	0	*
324191	Petroleum Lubricating Oil and Grease Products	3	1	0	*	2	*	0	0	*
324199	Other Petroleum and Coal Products	12	*	0	*	2	*	0	0	10
325	Chemicals	804	131	*	1	559	D	D	0	66
325110	Petrochemicals	*	*	0	*	*	*	0	0	0

325120	Industrial Gases	23	22	0	0	*	*	0	0	0
325180	Other Basic Inorganic Chemicals	40	13	0	*	21	*	0	0	6
325193	Ethyl Alcohol	417	33	0	*	327	*	44	0	13
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	7	1	0	*	2	*	0	0	3
325199	Other Basic Organic Chemicals	69	14	0	*	41	*	Q	0	14
325211	Plastics Materials and Resins	58	D	0	*	32	*	D	0	14
325212	Synthetic Rubber	2	1	0	*	1	*	0	0	*
325220	Artificial and Synthetic Fibers and Filaments	1	*	0	0	*	*	0	0	0
325311	Nitrogenous Fertilizers	53	6	0	*	45	*	0	0	1
325312	Phosphatic Fertilizers	*	*	0	*	*	*	0	0	0
3254	Pharmaceuticals and Medicines	35	11	0	*	21	*	*	0	2
325412	Pharmaceutical Preparation	24	7	0	*	14	*	*	0	2
325992	Photographic Film, Paper, Plate, and Chemicals	*	*	0	*	*	*	0	0	*
326	Plastics and Rubber Products	110	74	0	*	35	1	0	0	*
327	Nonmetallic Mineral Products	237	39	0	5	89	*	58	1	44
327120	Clay Building Material and Refractories	9	1	0	*	8	*	1	0	*
327211	Flat Glass	16	2	0	*	14	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	10	2	0	*	8	*	0	0	*
327213	Glass Containers	15	3	0	*	12	*	0	0	*
327215	Glass Products from Purchased Glass	8	6	0	*	2	*	0	0	*
327310	Cements	76	11	0	*	6	*	30	*	29
327410	Lime	46	2	0	*	10	*	27	1	7
327420	Gypsum	10	1	0	*	9	*	0	0	*
327993	Mineral Wool	13	4	0	*	8	*	0	*	*
331	Primary Metals	922	142	*	D	334	2	D	290	128
331110	Iron and Steel Mills and Ferroalloys	756	68	*	D	253	*	D	282	128
3312	Steel Products from Purchased Steel	21	8	0	*	13	*	0	0	*
3313	Alumina and Aluminum	59	29	0	*	29	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	9	1	0	*	8	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	19	5	0	*	13	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	8	2	0	*	5	*	0	0	*
3314	Nonferrous Metals, except Aluminum	28	14	0	*	12	1	0	1	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	12	8	0	*	3	*	0	*	*
3315	Foundries	58	22	*	*	27	*	*	8	*
331511	Iron Foundries	27	11	0	*	8	*	*	8	*
331523	Nonferrous Metal Die-Casting Foundries	14	5	*	*	9	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	5	2	0	*	4	*	0	0	*
332	Fabricated Metal Products	124	63	0	Q	58	1	0	0	*
333	Machinery	73	33	0	1	36	2	0	0	*
334	Computer and Electronic Products	14	11	0	*	4	*	0	0	*
334413	Semiconductors and Related Devices	5	4	0	*	1	*	0	0	*
335	Electrical Equip., Appliances, and Components	27	13	*	*	13	1	0	0	*
336	Transportation Equipment	182	85	0	D	90	D	0	*	5

336111	Automobiles	21	7	0	*	13	*	0	0	1
336112	Light Trucks and Utility Vehicles	25	8	0	*	16	*	0	0	1
3364	Aerospace Product and Parts	18	8	0	*	8	*	0	0	2
336411	Aircraft	4	2	0	*	2	*	0	0	*
337	Furniture and Related Products	18	6	0	*	9	*	0	0	Q
339	Miscellaneous	22	11	0	*	9	*	*	0	1
	Total	3,907	834	1	21	1,823	18	182	293	736

South Census Region

311	Food	308	80	*	3	162	2	1	0	61
3112	Grain and Oilseed Milling	44	10	*	*	25	*	*	0	10
311221	Wet Corn Milling	9	1	0	*	2	*	*	0	5
31131	Sugar Manufacturing	48	1	*	*	10	*	*	0	37
3114	Fruit and Vegetable Preserving and Specialty Food	23	6	0	*	16	*	0	0	*
3115	Dairy Product	19	8	0	*	10	*	0	0	*
3116	Animal Slaughtering and Processing	111	33	0	2	60	1	0	0	14
312	Beverage and Tobacco Products	52	26	*	*	24	*	*	0	1
3121	Beverages	46	24	0	*	20	*	*	0	1
3122	Tobacco	6	3	*	*	4	*	0	0	*
313	Textile Mills	53	33	*	*	16	Q	1	0	1
314	Textile Product Mills	17	8	0	*	9	*	0	0	*
315	Apparel	3	2	0	*	1	*	0	0	*
316	Leather and Allied Products	*	*	0	0	*	*	0	0	*
321	Wood Products	217	43	0	4	40	1	0	0	128
321113	Sawmills	101	19	0	2	14	*	0	0	65
3212	Veneer, Plywood, and Engineered Woods	70	14	0	*	19	*	0	0	37
321219	Reconstituted Wood Products	42	9	0	*	13	*	0	0	20
3219	Other Wood Products	41	9	0	1	6	1	0	0	24
322	Paper	1,413	84	4	3	331	1	33	0	957
322110	Pulp Mills	D	3	2	1	35	*	*	0	D
322121	Paper Mills, except Newsprint	352	25	1	1	93	*	20	0	213
322122	Newsprint Mills	23	7	0	*	4	*	0	0	12
322130	Paperboard Mills	743	34	1	1	175	*	13	0	519
323	Printing and Related Support	21	13	0	*	7	*	0	0	*
324	Petroleum and Coal Products	1,975	103	*	6	643	3	*	0	1,221
324110	Petroleum Refineries	1,913	96	0	2	603	2	0	0	1,210
324121	Asphalt Paving Mixture and Block	22	2	*	3	15	1	*	0	1
324122	Asphalt Shingle and Coating Materials	8	2	0	*	6	*	0	0	*
324191	Petroleum Lubricating Oil and Grease Products	21	4	0	*	16	*	0	0	1
324199	Other Petroleum and Coal Products	13	-1	0	*	3	*	0	0	10
325	Chemicals	2,715	290	2	5	1,629	D	D	2	753
325110	Petrochemicals	568	24	0	1	303	1	0	0	240
325120	Industrial Gases	103	D	0	*	D	*	0	0	3

325180	Other Basic Inorganic Chemicals	304	72	0	*	173	*	0	2	Q
325193	Ethyl Alcohol	15	1	0	*	14	*	0	0	*
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	76	9	0	*	44	*	0	0	22
325199	Other Basic Organic Chemicals	628	43	2	1	331	*	24	0	226
325211	Plastics Materials and Resins	598	D	0	D	380	D	D	0	170
325212	Synthetic Rubber	32	4	0	*	18	*	2	0	9
325220	Artificial and Synthetic Fibers and Filaments	32	9	0	*	23	*	*	0	*
325311	Nitrogenous Fertilizers	173	10	0	*	162	*	0	0	1
325312	Phosphatic Fertilizers	D	D	*	D	D	*	D	0	*
3254	Pharmaceuticals and Medicines	38	11	0	*	14	*	0	0	13
325412	Pharmaceutical Preparation	25	6	0	*	6	*	0	0	12
325992	Photographic Film, Paper, Plate, and Chemicals	2	1	0	*	1	*	0	0	*
326	Plastics and Rubber Products	102	66	*	Q	33	2	0	0	*
327	Nonmetallic Mineral Products	342	56	*	5	157	1	73	3	46
327120	Clay Building Material and Refractories	30	4	0	*	24	*	0	0	1
327211	Flat Glass	21	2	0	*	17	*	0	0	1
327212	Other Pressed and Blown Glass and Glassware	15	4	0	*	10	*	0	0	1
327213	Glass Containers	19	4	0	*	15	*	0	0	*
327215	Glass Products from Purchased Glass	8	5	0	*	3	*	0	0	*
327310	Cements	132	18	0	1	27	*	48	2	36
327410	Lime	40	2	0	1	5	*	25	1	6
327420	Gypsum	31	3	0	*	28	*	0	0	*
327993	Mineral Wool	13	4	0	*	9	*	*	*	*
331	Primary Metals	377	165	0	D	190	1	D	6	9
331110	Iron and Steel Mills and Ferroalloys	199	89	0	D	97	*	D	1	8
3312	Steel Products from Purchased Steel	25	13	0	*	9	*	0	1	*
3313	Alumina and Aluminum	104	39	0	*	64	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	10	1	0	*	9	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	40	10	0	*	30	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	9	2	0	*	6	*	0	0	*
3314	Nonferrous Metals, except Aluminum	30	15	0	*	10	*	0	3	1
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	13	10	0	*	1	*	0	0	1
3315	Foundries	19	8	0	*	9	*	0	1	*
331511	Iron Foundries	8	5	0	*	2	*	0	1	*
331523	Nonferrous Metal Die-Casting Foundries	5	1	0	*	4	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	2	1	0	*	1	*	0	0	*
332	Fabricated Metal Products	57	25	0	*	30	1	*	0	*
333	Machinery	51	36	0	Q	15	*	0	0	*
334	Computer and Electronic Products	31	24	0	*	7	*	0	0	*
334413	Semiconductors and Related Devices	18	14	0	*	4	*	0	0	*
335	Electrical Equip., Appliances, and Components	32	15	0	*	15	*	0	0	Q
336	Transportation Equipment	104	57	2	D	40	D	0	0	2
336111	Automobiles	12	6	0	*	5	*	0	0	*

336112	Light Trucks and Utility Vehicles	16	7	0	*	9	*	0	0	*
3364	Aerospace Product and Parts	17	12	0	*	5	*	0	0	1
336411	Aircraft	7	5	0	*	1	*	0	0	1
337	Furniture and Related Products	12	6	0	*	4	*	*	0	Q
339	Miscellaneous	17	10	0	*	6	Q	0	0	*
	Total	7,897	1,143	8	32	3,358	20	141	11	3,183

West Census Region

311	Food	271	94	0	6	155	2	5	*	8
3112	Grain and Oilseed Milling	10	3	0	*	7	*	0	0	*
311221	Wet Corn Milling	2	*	0	*	2	*	0	0	*
31131	Sugar Manufacturing	21	1	0	*	13	*	5	*	2
3114	Fruit and Vegetable Preserving and Specialty Food	61	12	0	*	47	*	0	0	1
3115	Dairy Product	39	11	0	*	26	1	0	0	1
3116	Animal Slaughtering and Processing	Q	Q	0	*	21	*	0	0	*
312	Beverage and Tobacco Products	24	12	0	*	11	1	0	0	*
3121	Beverages	24	12	0	*	11	1	0	0	*
3122	Tobacco	*	*	0	0	0	0	0	0	0
313	Textile Mills	2	1	0	0	1	*	0	0	*
314	Textile Product Mills	Q	1	0	0	Q	*	0	0	0
315	Apparel	*	*	0	0	*	*	0	0	0
316	Leather and Allied Products	*	*	0	0	*	*	0	0	*
321	Wood Products	80	12	0	2	13	1	0	0	52
321113	Sawmills	46	2	0	1	3	*	0	0	39
3212	Veneer, Plywood, and Engineered Woods	27	6	0	*	7	*	0	0	13
321219	Reconstituted Wood Products	10	3	0	*	3	*	0	0	4
3219	Other Wood Products	6	3	0	*	2	*	0	0	*
322	Paper	160	28	1	*	54	*	0	0	76
322110	Pulp Mills	7	*	*	0	0	0	0	0	6
322121	Paper Mills, except Newsprint	54	7	0	*	28	*	0	0	19
322122	Newsprint Mills	11	10	0	*	1	*	0	0	*
322130	Paperboard Mills	76	7	1	*	17	*	0	0	51
323	Printing and Related Support	4	3	0	*	1	*	0	0	*
324	Petroleum and Coal Products	865	30	3	3	256	11	0	0	562
324110	Petroleum Refineries	842	29	2	3	244	9	0	0	556
324121	Asphalt Paving Mixture and Block	14	1	*	*	8	Q	0	0	2
324122	Asphalt Shingle and Coating Materials	3	*	0	*	2	*	0	0	*
324191	Petroleum Lubricating Oil and Grease Products	1	*	0	0	1	*	0	0	0
324199	Other Petroleum and Coal Products	5	*	0	*	*	*	0	0	4
325	Chemicals	143	41	0	*	61	*	33	0	8
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	23	D	0	0	D	*	0	0	0
325180	Other Basic Inorganic Chemicals	67	11	0	*	18	*	33	0	5

325193	Ethyl Alcohol	14	1	0	*	11	*	0	0	1
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	2	*	0	*	2	*	0	0	*
325199	Other Basic Organic Chemicals	7	3	0	*	4	*	0	0	1
325211	Plastics Materials and Resins	2	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	6	2	0	*	5	*	0	0	*
325312	Phosphatic Fertilizers	D	D	0	*	D	*	0	0	*
3254	Pharmaceuticals and Medicines	9	5	0	*	4	*	0	0	*
325412	Pharmaceutical Preparation	5	3	0	*	2	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	2	1	0	*	1	*	0	0	*
326	Plastics and Rubber Products	17	11	0	*	Q	*	0	0	*
327	Nonmetallic Mineral Products	161	21	0	6	50	Q	53	Q	28
327120	Clay Building Material and Refractories	2	*	0	*	2	*	0	0	*
327211	Flat Glass	6	1	0	*	5	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	1	*	0	*	1	*	0	0	*
327213	Glass Containers	12	3	0	*	9	*	0	0	*
327215	Glass Products from Purchased Glass	2	1	0	*	*	*	0	0	*
327310	Cements	64	8	0	*	9	*	25	*	21
327410	Lime	14	1	0	*	*	*	9	*	3
327420	Gypsum	11	1	0	Q	10	*	0	0	*
327993	Mineral Wool	4	2	0	*	2	*	0	0	*
331	Primary Metals	85	41	0	*	42	*	0	1	*
331110	Iron and Steel Mills and Ferroalloys	28	11	0	*	17	*	0	0	*
3312	Steel Products from Purchased Steel	1	1	0	*	*	*	0	0	*
3313	Alumina and Aluminum	24	16	0	*	9	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	2	1	0	*	1	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	5	2	0	*	4	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	3	1	0	*	2	*	0	0	*
3314	Nonferrous Metals, except Aluminum	23	11	0	*	13	*	0	0	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	19	8	0	*	11	*	0	0	*
3315	Foundries	8	3	0	*	4	*	0	1	*
331511	Iron Foundries	2	*	0	*	1	*	0	1	*
331523	Nonferrous Metal Die-Casting Foundries	2	1	0	*	1	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	*	0	*	1	*	0	0	*
332	Fabricated Metal Products	27	15	0	*	11	*	0	0	Q
333	Machinery	8	4	0	*	3	*	0	0	*
334	Computer and Electronic Products	38	27	0	*	12	*	0	0	*
334413	Semiconductors and Related Devices	25	18	0	*	7	*	0	0	*
335	Electrical Equip., Appliances, and Components	7	5	0	*	Q	*	0	0	*
336	Transportation Equipment	25	14	0	*	10	*	0	0	1
336111	Automobiles	1	1	0	*	*	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	*	0	0	*	*	0	0	0

3364	Aerospace Product and Parts	19	10	0	*	8	*	0	0	1
336411	Aircraft	5	2	0	*	2	*	0	0	1
337	Furniture and Related Products	3	2	0	0	1	*	0	0	*
339	Miscellaneous	5	3	0	*	1	*	0	0	*
	Total	1,925	365	4	18	691	17	90	3	737

(a) The Bureau of the Census classifies establishments using the 2017 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 percent.

NA=Not available.

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.

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

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).

Released: February 2021
 Next MECS will be fielded in 2022.

RSE Table 3.2 Relative Standard Errors for Table 3.2;

Unit: Percents.

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	5.0	11.4	2.2	29.3	4.5	18.4	0.0	0.0	7.2
3112	Grain and Oilseed Milling	2.4	1.9	15.8	15.6	3.6	15.0	0.0	X	3.2
311221	Wet Corn Milling	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	3.2	6.1	0.0	6.9	3.2	5.8	X	X	2.5
3115	Dairy Product	2.2	3.3	28.5	32.4	2.3	12.9	X	X	19.9
3116	Animal Slaughtering and Processing	14.8	31.0	0.0	13.8	6.2	22.0	X	X	32.9
312	Beverage and Tobacco Products	12.0	15.5	0.0	29.3	8.5	11.3	0.0	X	84.3
3121	Beverages	12.8	16.3	0.0	31.3	9.2	12.9	0.0	X	84.3
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
313	Textile Mills	6.4	6.1	78.4	21.0	12.7	25.7	16.2	X	3.9
314	Textile Product Mills	9.7	7.9	X	28.1	13.5	29.1	0.0	X	76.5
315	Apparel	10.1	11.3	X	51.8	14.3	42.3	99.4	X	98.2
316	Leather and Allied Products	7.7	5.1	X	4.0	11.6	31.1	X	X	21.5
321	Wood Products	4.0	3.0	3.5	31.5	10.2	5.6	63.3	X	5.0
321113	Sawmills	5.2	7.0	3.6	3.6	36.2	8.6	X	X	1.3
3212	Veneer, Plywood, and Engineered Woods	1.0	1.2	0.0	3.2	1.2	3.1	80.4	X	1.5
321219	Reconstituted Wood Products	0.5	1.5	0.0	2.7	0.9	5.9	X	X	0.1
3219	Other Wood Products	16.3	5.7	85.9	65.7	14.9	14.7	75.3	X	33.2
322	Paper	0.4	1.4	0.0	0.7	1.0	11.1	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
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322122	Newsprint 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	7.7	7.8	50.9	43.0	10.0	21.4	X	X	59.2
324	Petroleum and Coal Products	0.2	0.5	9.1	8.9	0.3	5.6	19.9	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	5.4	8.7	30.1	15.2	3.9	36.8	19.9	X	17.6
324122	Asphalt Shingle and Coating Materials	1.1	1.7	X	0.9	1.1	2.6	X	X	0.1
324191	Petroleum Lubricating Oil and Grease Products	16.8	19.1	X	51.2	17.4	19.5	X	X	0.2
324199	Other Petroleum and Coal Products	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325	Chemicals	1.6	1.5	8.3	2.2	1.7	13.9	0.4	0.0	4.3
325110	Petrochemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0

325120	Industrial Gases	1.9	3.8	X	0.0	1.9	70.3	X	X	5.3
325180	Other Basic Inorganic Chemicals	9.1	2.0	X	3.2	4.0	9.2	0.0	0.0	42.7
325193	Ethyl Alcohol	1.3	1.9	X	2.8	1.5	8.6	0.0	X	3.7
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	Other Basic Organic Chemicals	4.1	5.9	0.0	9.2	6.0	8.3	1.6	X	6.3
325211	Plastics Materials and Resins	1.3	3.4	X	D	1.1	D	D	X	3.5
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	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
325311	Nitrogenous Fertilizers	3.8	12.5	X	2.7	3.2	86.5	X	X	0.7
325312	Phosphatic Fertilizers	0.0	D	0.0	D	0.0	0.0	D	X	0.0
3254	Pharmaceuticals and Medicines	6.0	2.9	X	2.6	5.2	25.5	0.0	X	36.1
325412	Pharmaceutical Preparation	9.7	1.7	X	2.9	9.6	30.1	0.0	X	39.9
325992	Photographic Film, Paper, Plate, and Chemicals	0.2	0.3	0.0	0.1	0.4	1.5	X	X	0.0
326	Plastics and Rubber Products	7.8	7.7	72.4	64.9	14.3	17.3	X	X	35.2
327	Nonmetallic Mineral Products	2.9	2.5	97.3	16.7	1.7	27.5	7.5	18.7	2.7
327120	Clay Building Material and Refractories	2.0	3.6	X	2.2	2.2	5.5	0.0	X	24.8
327211	Flat Glass	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327212	Other Pressed and Blown Glass and Glassware	0.6	0.8	X	0.7	0.7	27.7	X	X	0.1
327213	Glass Containers	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327215	Glass Products from Purchased Glass	1.0	1.4	X	26.8	1.1	1.9	X	X	0.2
327310	Cements	0.4	0.3	X	0.3	1.2	1.1	0.3	11.3	0.1
327410	Lime	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	1.0	2.0	X	47.3	0.5	1.4	X	X	0.0
327993	Mineral Wool	0.7	0.4	X	0.1	1.0	6.3	0.0	0.0	0.1
331	Primary Metals	0.3	1.1	0.3	0.9	0.2	2.2	0.1	0.2	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	9.7	17.6	X	11.1	3.9	15.4	0.0	0.0	40.5
3313	Alumina and Aluminum	0.2	0.1	X	0.7	0.4	1.0	X	X	0.1
331314	Secondary Smelting and Alloying of Aluminum	2.1	1.5	X	2.8	2.3	1.1	X	X	2.8
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	0.6	1.2	X	0.3	0.4	2.3	X	X	0.8
3314	Nonferrous Metals, except Aluminum	1.0	0.9	X	5.2	1.3	1.9	X	11.1	0.8
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.8	0.6	X	0.2	1.3	3.1	X	0.0	0.1
3315	Foundries	0.9	0.9	89.7	1.6	0.9	1.8	0.9	4.2	1.9
331511	Iron Foundries	1.7	1.5	X	0.8	2.0	4.5	0.0	4.2	4.4
331523	Nonferrous Metal Die-Casting Foundries	1.3	1.2	89.7	5.6	1.6	1.4	X	X	0.5
331524	Aluminum Foundries, except Die-Casting	1.0	1.1	X	1.6	1.3	2.9	X	X	3.3
332	Fabricated Metal Products	11.4	10.0	X	69.1	16.1	18.3	70.3	X	47.4
333	Machinery	11.9	17.2	99.0	29.7	13.0	28.0	99.0	X	48.5
334	Computer and Electronic Products	6.0	6.7	0.0	57.2	10.4	48.0	X	X	35.1
334413	Semiconductors and Related Devices	3.3	3.3	0.0	1.2	3.6	13.2	X	X	6.0
335	Electrical Equip., Appliances, and Components	10.7	8.8	47.2	23.6	15.1	24.5	X	X	51.4
336	Transportation Equipment	7.9	9.2	10.2	26.4	8.5	13.5	X	30.3	6.9
336111	Automobiles	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0

336112	Light Trucks and Utility Vehicles	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
3364	Aerospace Product and Parts	3.0	4.2	0.0	3.9	2.8	18.5	X	X	0.9
336411	Aircraft	5.6	10.0	X	8.0	1.6	52.7	X	X	0.1
337	Furniture and Related Products	11.3	8.6	X	60.4	12.4	24.6	75.8	X	49.1
339	Miscellaneous	12.2	11.1	X	59.8	17.6	45.0	99.0	X	6.7
	Total	0.7	1.8	2.5	7.9	0.9	3.9	3.3	0.4	0.8

Northeast Census Region

311	Food	10.1	11.7	0.0	88.2	9.9	15.0	X	X	6.1
3112	Grain and Oilseed Milling	2.3	5.2	X	71.1	0.9	0.0	X	X	X
311221	Wet Corn Milling	0.0	0.0	X	X	0.0	0.0	X	X	X
31131	Sugar Manufacturing	0.0	0.0	X	0.0	0.0	0.0	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	10.5	6.5	0.0	16.0	13.5	14.9	X	X	8.9
3115	Dairy Product	5.2	4.8	0.0	14.6	6.6	10.2	X	X	16.4
3116	Animal Slaughtering and Processing	2.5	3.0	X	2.3	2.2	35.1	X	X	0.2
312	Beverage and Tobacco Products	5.0	7.1	0.0	50.3	4.3	29.5	X	X	0.0
3121	Beverages	5.3	7.2	0.0	50.9	4.7	29.7	X	X	0.0
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
313	Textile Mills	8.5	6.2	X	59.3	13.1	3.7	X	X	83.5
314	Textile Product Mills	31.0	32.0	X	62.8	41.4	54.9	0.0	X	84.7
315	Apparel	27.8	30.5	X	X	36.6	68.3	99.4	X	X
316	Leather and Allied Products	11.0	8.7	X	2.4	15.1	9.1	X	X	X
321	Wood Products	8.3	8.5	1.1	18.6	18.6	3.1	63.3	X	10.2
321113	Sawmills	1.2	1.9	0.0	4.0	9.7	7.1	X	X	1.4
3212	Veneer, Plywood, and Engineered Woods	0.1	1.4	0.0	7.1	1.2	9.3	80.4	X	0.1
321219	Reconstituted Wood Products	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
3219	Other Wood Products	33.6	15.4	85.9	44.2	33.2	29.1	75.3	X	60.0
322	Paper	2.4	9.0	0.0	8.1	4.5	30.1	0.0	X	0.1
322110	Pulp Mills	D	0.0	0.0	0.0	0.0	0.0	X	X	D
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322122	Newsprint Mills	X	X	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
323	Printing and Related Support	21.1	21.9	50.9	53.9	28.9	61.4	X	X	98.9
324	Petroleum and Coal Products	0.5	0.6	3.5	15.4	1.2	1.3	X	X	0.5
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	5.7	5.9	3.7	17.0	5.7	5.0	X	X	18.2
324122	Asphalt Shingle and Coating Materials	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
324191	Petroleum Lubricating Oil and Grease Products	5.0	3.8	X	58.7	1.6	4.3	X	X	0.0
324199	Other Petroleum and Coal Products	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325	Chemicals	8.9	4.4	0.0	3.0	13.0	18.3	0.0	X	9.2
325110	Petrochemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325120	Industrial Gases	9.0	11.4	X	X	5.8	85.5	X	X	21.6
325180	Other Basic Inorganic Chemicals	8.8	1.8	X	5.1	17.8	16.7	X	X	4.3
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	X	0.0	X	X	X	0.0
325199	Other Basic Organic Chemicals	0.4	0.7	0.0	0.0	0.5	19.5	0.0	X	0.0
325211	Plastics Materials and Resins	1.3	1.9	X	55.5	2.4	8.1	X	X	0.0
325212	Synthetic Rubber	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	X	0.0	0.0	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	X	0.0	X	X	X
3254	Pharmaceuticals and Medicines	1.3	2.8	X	3.6	1.2	46.2	X	X	0.0
325412	Pharmaceutical Preparation	2.3	4.0	X	3.8	1.7	50.1	X	X	0.0
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
326	Plastics and Rubber Products	30.9	32.0	X	87.7	46.5	63.8	X	X	81.4
327	Nonmetallic Mineral Products	5.7	14.7	X	47.5	3.1	30.3	0.0	X	33.1
327120	Clay Building Material and Refractories	3.5	4.1	X	0.1	5.9	8.2	0.0	X	0.1
327211	Flat Glass	0.0	0.0	X	X	0.0	0.0	X	X	X
327212	Other Pressed and Blown Glass and Glassware	1.5	1.6	X	2.7	1.8	65.7	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	0.7	1.3	X	53.7	0.7	2.9	X	X	0.1
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	0.0
327420	Gypsum	0.0	0.0	X	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	X
331	Primary Metals	0.2	0.6	X	0.4	0.3	5.8	0.0	0.1	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	3.5	7.9	X	6.6	2.5	38.9	0.0	0.0	0.5
3313	Alumina and Aluminum	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	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	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
3314	Nonferrous Metals, except Aluminum	1.7	2.9	X	0.0	2.2	12.4	X	0.0	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	X	X	0.0	0.0	X	X	X
3315	Foundries	1.8	2.1	X	6.2	1.9	2.8	0.0	49.2	40.6
331511	Iron Foundries	1.4	1.1	X	2.1	1.4	1.2	0.0	49.2	66.1
331523	Nonferrous Metal Die-Casting Foundries	5.9	12.4	X	X	3.2	1.2	X	X	0.0
331524	Aluminum Foundries, except Die-Casting	1.7	3.1	X	19.0	1.2	6.6	X	X	5.6
332	Fabricated Metal Products	34.1	26.9	X	59.5	46.8	60.9	X	X	61.7
333	Machinery	19.6	21.1	99.0	54.9	25.3	38.8	99.0	X	60.6
334	Computer and Electronic Products	13.1	12.3	0.0	67.0	18.8	51.8	X	X	47.0
334413	Semiconductors and Related Devices	2.0	2.2	0.0	0.6	2.3	0.0	X	X	0.0
335	Electrical Equip., Appliances, and Components	29.5	25.1	X	42.8	38.2	41.9	X	X	51.2
336	Transportation Equipment	37.0	53.8	60.3	22.6	23.8	12.4	X	X	8.9
336111	Automobiles	0.0	0.0	X	X	0.0	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	0.0	X	X	0.0	X	X	X	X
3364	Aerospace Product and Parts	1.9	5.2	0.0	0.1	1.1	2.3	X	X	0.0
336411	Aircraft	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0

337	Furniture and Related Products	26.2	25.0	X	98.9	37.0	53.4	X	X	73.3
339	Miscellaneous	35.6	36.7	X	67.3	41.5	56.4	X	X	93.8
	Total	2.6	5.2	5.3	28.8	4.0	8.7	0.3	0.1	1.5

Midwest Census Region

311	Food	4.7	4.2	5.7	16.5	6.6	30.7	0.0	0.0	9.5
3112	Grain and Oilseed Milling	3.0	1.9	48.4	18.3	4.5	22.0	0.0	X	0.8
311221	Wet Corn Milling	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	9.6	15.6	X	15.4	9.6	7.4	X	X	9.0
3115	Dairy Product	3.5	4.5	67.2	20.5	4.0	50.2	X	X	2.7
3116	Animal Slaughtering and Processing	6.5	3.5	0.0	28.7	8.9	16.6	X	X	1.9
312	Beverage and Tobacco Products	38.3	4.7	0.0	6.2	6.2	26.7	X	X	96.9
3121	Beverages	38.3	4.7	0.0	6.2	6.2	26.7	X	X	96.9
3122	Tobacco	0.0	0.0	X	X	0.0	X	X	X	X
313	Textile Mills	10.0	12.7	X	94.8	13.1	33.0	X	X	1.4
314	Textile Product Mills	46.2	41.4	X	X	57.4	X	X	X	X
315	Apparel	41.5	40.9	X	X	61.2	X	X	X	X
316	Leather and Allied Products	12.6	7.8	X	28.3	17.2	48.1	X	X	23.1
321	Wood Products	11.0	6.9	86.3	84.6	6.2	18.5	X	X	14.6
321113	Sawmills	3.3	9.7	86.3	6.0	4.7	20.8	X	X	3.5
3212	Veneer, Plywood, and Engineered Woods	9.8	1.1	X	2.1	2.2	10.5	X	X	20.6
321219	Reconstituted Wood Products	0.4	0.8	X	0.0	0.5	7.2	X	X	0.3
3219	Other Wood Products	21.7	11.6	X	95.8	12.3	25.6	X	X	40.8
322	Paper	2.1	4.6	0.0	0.2	3.9	21.7	0.0	X	0.1
322110	Pulp Mills	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322122	Newsprint Mills	X	X	X	X	X	X	X	X	X
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	12.7	12.5	X	18.7	14.7	35.9	X	X	49.7
324	Petroleum and Coal Products	0.1	0.1	0.0	3.0	0.3	1.2	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	3.0	2.6	0.0	4.2	3.8	30.3	X	X	52.3
324122	Asphalt Shingle and Coating Materials	1.3	3.4	X	0.0	1.3	1.8	X	X	0.0
324191	Petroleum Lubricating Oil and Grease Products	3.3	3.6	X	0.2	3.8	9.3	X	X	76.5
324199	Other Petroleum and Coal Products	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325	Chemicals	3.9	2.6	76.1	4.4	4.9	D	D	X	13.3
325110	Petrochemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	X
325120	Industrial Gases	3.2	3.2	X	X	3.5	25.8	X	X	X
325180	Other Basic Inorganic Chemicals	1.2	0.7	X	7.0	1.9	4.6	X	X	2.1
325193	Ethyl Alcohol	1.4	2.1	X	2.9	1.6	14.6	0.0	X	3.9
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	Other Basic Organic Chemicals	13.3	5.5	X	10.0	20.6	10.6	87.5	X	0.2
325211	Plastics Materials and Resins	3.6	D	X	10.9	6.1	8.1	D	X	1.1

325212	Synthetic Rubber	0.0	0.0	X	0.0	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	0.1	0.1	X	2.5	0.1	39.4	X	X	0.0
325312	Phosphatic Fertilizers	0.0	0.0	X	0.0	0.0	0.0	X	X	X
3254	Pharmaceuticals and Medicines	10.6	8.4	X	13.7	15.0	37.8	0.0	X	0.1
325412	Pharmaceutical Preparation	12.5	1.9	X	16.5	20.1	40.1	0.0	X	0.1
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
326	Plastics and Rubber Products	13.6	12.8	X	59.1	24.1	25.8	X	X	62.3
327	Nonmetallic Mineral Products	1.9	4.0	X	38.4	2.6	33.0	0.0	0.0	1.8
327120	Clay Building Material and Refractories	2.9	3.6	X	5.0	3.4	13.8	0.0	X	10.7
327211	Flat Glass	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327212	Other Pressed and Blown Glass and Glassware	0.9	0.9	X	0.8	1.0	8.6	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	2.1	2.6	X	0.5	3.2	8.5	X	X	0.0
327310	Cements	0.1	0.1	X	0.1	0.1	0.0	0.0	0.0	0.1
327410	Lime	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	0.3	2.2	X	0.0	0.2	1.5	X	X	0.0
327993	Mineral Wool	0.5	0.7	X	0.0	0.5	3.2	X	0.0	0.0
331	Primary Metals	0.1	0.2	0.3	D	0.2	2.1	D	0.1	0.1
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	D	0.0	0.0	D	0.0	0.0
3312	Steel Products from Purchased Steel	2.6	1.8	X	5.3	3.7	17.8	X	X	1.8
3313	Alumina and Aluminum	0.5	0.2	X	1.1	0.8	3.8	X	X	0.4
331314	Secondary Smelting and Alloying of Aluminum	2.6	3.3	X	2.6	2.7	6.8	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	1.7	2.5	X	0.4	1.2	4.6	X	X	1.2
3314	Nonferrous Metals, except Aluminum	1.6	0.9	X	13.0	3.1	0.6	X	0.0	2.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	X	0.0	0.0	0.0	X	0.0	0.0
3315	Foundries	1.3	1.3	89.7	1.4	1.4	2.2	3.4	5.2	1.7
331511	Iron Foundries	2.4	2.2	X	1.3	3.1	5.6	0.0	5.2	3.7
331523	Nonferrous Metal Die-Casting Foundries	2.0	1.5	89.7	7.0	2.4	2.5	X	X	0.6
331524	Aluminum Foundries, except Die-Casting	1.4	1.5	X	0.0	1.8	0.8	X	X	0.0
332	Fabricated Metal Products	15.7	15.6	X	80.2	21.5	21.5	X	X	56.0
333	Machinery	14.2	13.9	X	35.2	17.9	41.3	X	X	63.3
334	Computer and Electronic Products	15.3	16.0	X	17.8	23.4	87.3	X	X	3.7
334413	Semiconductors and Related Devices	11.7	11.5	X	6.6	12.2	53.0	X	X	0.0
335	Electrical Equip., Appliances, and Components	26.2	21.7	47.2	44.6	35.2	33.4	X	X	78.5
336	Transportation Equipment	13.0	15.4	X	D	13.1	D	X	30.3	10.0
336111	Automobiles	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
3364	Aerospace Product and Parts	2.0	2.5	X	0.0	2.5	47.6	X	X	0.3
336411	Aircraft	1.6	1.6	X	0.0	1.3	81.1	X	X	0.0
337	Furniture and Related Products	19.7	15.5	X	88.7	16.5	31.9	X	X	72.4
339	Miscellaneous	15.2	15.4	X	30.7	20.0	72.8	99.0	X	0.1
	Total	1.4	2.5	29.3	20.0	2.2	7.0	0.3	0.1	2.0

South Census Region

311	Food	4.9	5.8	1.4	14.7	6.3	17.7	0.0	X	9.0
3112	Grain and Oilseed Milling	2.6	6.1	16.7	1.6	1.9	35.1	0.0	X	9.0
311221	Wet Corn Milling	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	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	4.3	5.6	X	3.7	4.9	17.6	X	X	1.6
3115	Dairy Product	9.0	12.5	X	53.5	7.2	0.4	X	X	61.4
3116	Animal Slaughtering and Processing	6.0	4.2	X	18.4	4.8	28.7	X	X	37.9
312	Beverage and Tobacco Products	16.9	28.4	0.0	5.4	18.7	10.0	0.0	X	1.7
3121	Beverages	19.3	31.5	X	6.9	22.1	17.1	0.0	X	1.7
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
313	Textile Mills	7.6	6.7	78.4	6.2	17.2	50.3	16.2	X	4.2
314	Textile Product Mills	11.5	9.4	X	31.5	15.6	34.0	X	X	87.8
315	Apparel	12.5	15.6	X	51.8	11.7	45.1	X	X	98.2
316	Leather and Allied Products	9.8	12.6	X	X	4.8	45.9	X	X	0.0
321	Wood Products	6.6	4.6	X	8.2	17.1	15.5	X	X	8.5
321113	Sawmills	8.3	8.8	X	6.9	46.5	19.3	X	X	2.2
3212	Veneer, Plywood, and Engineered Woods	0.8	1.7	X	3.4	1.4	3.3	X	X	0.7
321219	Reconstituted Wood Products	1.0	2.3	X	5.1	1.5	9.3	X	X	0.1
3219	Other Wood Products	28.1	11.0	X	27.2	34.5	27.8	X	X	44.4
322	Paper	0.4	2.6	0.0	0.1	1.2	14.2	0.0	X	0.1
322110	Pulp Mills	D	0.0	0.0	0.0	0.0	0.0	0.0	X	D
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322122	Newsprint 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	15.3	16.0	X	46.1	19.7	28.0	X	X	87.9
324	Petroleum and Coal Products	0.3	0.9	20.3	21.0	0.6	9.1	19.9	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	13.6	20.4	20.3	34.2	9.7	34.5	19.9	X	3.7
324122	Asphalt Shingle and Coating Materials	2.3	2.8	X	1.2	2.3	7.7	X	X	11.6
324191	Petroleum Lubricating Oil and Grease Products	20.3	23.6	X	72.2	20.9	22.3	X	X	0.1
324199	Other Petroleum and Coal Products	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325	Chemicals	1.9	2.3	0.0	2.8	1.7	D	D	0.0	4.6
325110	Petrochemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325120	Industrial Gases	2.7	D	X	0.0	D	66.4	X	X	0.1
325180	Other Basic Inorganic Chemicals	12.7	2.9	X	5.2	5.0	10.6	X	0.0	52.2
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	Other Basic Organic Chemicals	4.7	8.6	0.0	10.6	6.8	10.2	0.0	X	6.8
325211	Plastics Materials and Resins	1.4	D	X	D	1.1	D	D	X	3.8
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	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
325311	Nitrogenous Fertilizers	5.2	22.4	X	5.7	4.1	52.1	X	X	2.0

325312	Phosphatic Fertilizers	D	D	0.0	D	D	0.0	D	X	0.0
3254	Pharmaceuticals and Medicines	14.9	2.0	X	0.7	2.0	1.4	X	X	44.2
325412	Pharmaceutical Preparation	22.8	2.5	X	1.0	3.6	2.0	X	X	45.2
325992	Photographic Film, Paper, Plate, and Chemicals	0.9	0.9	X	7.0	1.4	1.6	X	X	0.0
326	Plastics and Rubber Products	14.5	15.0	72.4	72.4	21.8	22.7	X	X	41.5
327	Nonmetallic Mineral Products	1.4	2.7	97.3	20.9	2.1	28.6	0.3	7.6	2.2
327120	Clay Building Material and Refractories	2.9	5.3	X	3.1	3.0	7.2	X	X	27.4
327211	Flat Glass	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327212	Other Pressed and Blown Glass and Glassware	0.9	1.0	X	0.0	1.2	33.2	X	X	0.1
327213	Glass Containers	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327215	Glass Products from Purchased Glass	1.2	1.8	X	35.2	0.9	1.7	X	X	0.1
327310	Cements	0.8	0.7	X	0.0	2.6	0.0	0.4	12.3	0.0
327410	Lime	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	1.0	3.3	X	1.7	0.9	2.2	X	X	0.0
327993	Mineral Wool	0.3	0.7	X	0.1	0.2	12.5	0.0	0.0	0.1
331	Primary Metals	1.3	2.5	X	D	0.5	6.8	D	9.7	2.3
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	X	D	0.0	0.0	D	0.0	0.0
3312	Steel Products from Purchased Steel	20.1	30.7	X	20.0	9.2	42.7	X	0.0	47.7
3313	Alumina and Aluminum	0.4	0.1	X	1.3	0.6	0.9	X	X	0.1
331314	Secondary Smelting and Alloying of Aluminum	3.9	2.5	X	6.3	4.2	1.0	X	X	3.7
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	0.5	1.4	X	1.3	0.4	2.7	X	X	0.0
3314	Nonferrous Metals, except Aluminum	2.2	1.6	X	0.0	2.4	9.0	X	19.5	1.4
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	0.9	1.4	X	3.4	0.8	4.2	X	0.0	3.9
331511	Iron Foundries	1.6	2.3	X	1.5	1.5	7.6	X	0.0	0.0
331523	Nonferrous Metal Die-Casting Foundries	1.4	1.3	X	0.0	1.6	1.9	X	X	0.2
331524	Aluminum Foundries, except Die-Casting	0.7	2.2	X	0.0	0.1	20.9	X	X	0.0
332	Fabricated Metal Products	26.3	21.4	X	46.7	35.9	31.0	70.3	X	76.1
333	Machinery	28.5	37.3	X	75.6	29.2	41.2	X	X	69.3
334	Computer and Electronic Products	16.7	19.2	X	2.0	33.3	40.2	X	X	44.5
334413	Semiconductors and Related Devices	2.3	2.9	X	0.0	0.0	0.0	X	X	71.1
335	Electrical Equip., Appliances, and Components	14.0	13.7	X	36.9	16.9	28.3	X	X	58.8
336	Transportation Equipment	10.5	9.4	3.5	D	15.7	D	X	X	6.7
336111	Automobiles	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
3364	Aerospace Product and Parts	10.7	11.3	X	26.2	15.4	15.8	X	X	3.4
336411	Aircraft	13.3	19.9	X	0.0	5.4	26.1	X	X	0.0
337	Furniture and Related Products	20.0	16.9	X	42.9	30.3	24.7	75.8	X	58.6
339	Miscellaneous	20.8	18.2	X	56.7	33.7	67.6	X	X	68.3
	Total	0.8	2.0	1.0	6.6	1.0	6.1	0.2	5.8	1.2

West Census Region

311	Food	18.8	37.2	X	28.1	13.4	44.8	0.0	0.0	39.9
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3112	Grain and Oilseed Milling	4.6	7.5	X	0.0	6.1	43.1	X	X	7.3
311221	Wet Corn Milling	0.0	0.0	X	0.0	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	3.5	5.0	X	17.5	3.9	7.4	X	X	2.9
3115	Dairy Product	2.6	2.9	X	35.2	2.8	27.1	X	X	39.4
3116	Animal Slaughtering and Processing	60.3	73.8	X	11.2	32.7	59.3	X	X	17.5
312	Beverage and Tobacco Products	6.2	10.3	X	25.4	5.5	20.7	X	X	25.0
3121	Beverages	6.2	10.3	X	25.4	5.5	20.7	X	X	25.0
3122	Tobacco	0.0	0.0	X	X	X	X	X	X	X
313	Textile Mills	9.8	15.7	X	X	12.5	73.6	X	X	0.0
314	Textile Product Mills	50.3	42.1	X	X	57.0	92.2	X	X	X
315	Apparel	23.1	25.5	X	X	31.1	32.2	X	X	X
316	Leather and Allied Products	9.6	7.6	X	X	21.7	33.4	X	X	0.0
321	Wood Products	1.3	4.7	X	3.5	4.4	10.8	X	X	0.3
321113	Sawmills	0.5	6.2	X	1.5	1.4	18.5	X	X	0.4
3212	Veneer, Plywood, and Engineered Woods	1.2	2.7	X	6.7	3.2	6.1	X	X	0.5
321219	Reconstituted Wood Products	0.3	1.0	X	0.0	0.1	7.7	X	X	0.1
3219	Other Wood Products	14.6	15.0	X	27.4	20.8	25.2	X	X	58.3
322	Paper	1.3	3.6	0.0	4.4	2.5	26.4	X	X	0.0
322110	Pulp Mills	0.0	0.0	0.0	X	X	X	X	X	0.0
322121	Paper Mills, except Newsprint	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
322122	Newsprint 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	X	X	0.0
323	Printing and Related Support	23.3	23.8	X	99.0	31.9	44.5	X	X	91.1
324	Petroleum and Coal Products	0.2	0.3	10.6	1.3	0.1	10.0	X	X	0.2
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	10.6	10.4	58.9	10.6	4.4	56.5	X	X	37.8
324122	Asphalt Shingle and Coating Materials	0.9	3.1	X	19.9	0.5	1.5	X	X	3.4
324191	Petroleum Lubricating Oil and Grease Products	0.0	0.0	X	X	0.0	0.0	X	X	X
324199	Other Petroleum and Coal Products	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325	Chemicals	2.3	4.7	X	1.4	1.6	51.7	0.0	X	21.1
325110	Petrochemicals	X	X	X	X	X	X	X	X	X
325120	Industrial Gases	2.7	D	X	X	D	95.1	X	X	X
325180	Other Basic Inorganic Chemicals	2.9	1.3	X	2.2	2.1	12.3	0.0	X	30.5
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	Other Basic Organic Chemicals	3.4	4.2	X	4.3	4.0	14.2	X	X	0.1
325211	Plastics Materials and Resins	1.6	0.8	X	15.9	2.9	4.7	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	14.0	8.6	X	7.9	14.5	88.6	X	X	0.0
325312	Phosphatic Fertilizers	D	D	X	0.0	D	0.0	X	X	0.0
3254	Pharmaceuticals and Medicines	6.4	6.5	X	15.0	7.0	41.8	X	X	96.2
325412	Pharmaceutical Preparation	9.2	8.3	X	17.9	11.9	46.1	X	X	50.5

325992	Photographic Film, Paper, Plate, and Chemicals	0.1	0.1	X	0.0	0.1	0.0	X	X	0.0
326	Plastics and Rubber Products	32.1	32.6	X	99.0	62.0	40.8	X	X	96.5
327	Nonmetallic Mineral Products	14.0	8.9	X	32.0	8.8	65.5	27.1	59.9	7.7
327120	Clay Building Material and Refractories	1.3	2.0	X	3.0	1.3	3.9	X	X	53.9
327211	Flat Glass	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327212	Other Pressed and Blown Glass and Glassware	2.7	11.1	X	84.4	2.1	12.0	X	X	8.7
327213	Glass Containers	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327215	Glass Products from Purchased Glass	2.4	1.8	X	0.0	6.0	3.7	X	X	18.3
327310	Cements	0.4	0.7	X	1.7	0.1	23.8	0.7	30.1	0.1
327410	Lime	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	4.6	2.5	X	78.4	0.1	0.1	X	X	0.0
327993	Mineral Wool	5.3	1.3	X	0.0	8.3	4.1	X	X	0.0
331	Primary Metals	0.6	0.6	X	3.7	0.8	3.6	X	0.0	0.1
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
3312	Steel Products from Purchased Steel	6.6	7.8	X	1.9	16.0	1.5	X	X	15.8
3313	Alumina and Aluminum	0.3	0.2	X	0.0	0.4	3.6	X	X	0.0
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	X	0.0	0.0	0.0	X	X	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	2.5	4.4	X	0.0	1.7	5.6	X	X	0.0
3314	Nonferrous Metals, except Aluminum	2.1	2.1	X	21.9	2.5	4.6	X	X	0.1
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	1.9	1.9	X	0.9	1.9	23.5	X	X	0.3
3315	Foundries	1.4	1.8	X	5.3	1.6	11.8	X	0.0	0.0
331511	Iron Foundries	0.7	0.5	X	0.0	0.3	49.5	X	0.0	0.0
331523	Nonferrous Metal Die-Casting Foundries	3.1	1.3	X	0.0	4.1	9.8	X	X	0.0
331524	Aluminum Foundries, except Die-Casting	5.0	2.5	X	64.2	6.7	0.4	X	X	0.0
332	Fabricated Metal Products	30.0	27.9	X	70.3	37.4	43.2	X	X	84.2
333	Machinery	29.4	23.7	X	73.8	43.3	50.8	X	X	90.1
334	Computer and Electronic Products	7.5	6.7	X	10.4	12.2	68.8	X	X	14.7
334413	Semiconductors and Related Devices	6.4	6.3	X	5.2	7.1	5.3	X	X	0.0
335	Electrical Equip., Appliances, and Components	29.1	22.5	X	96.8	53.3	80.5	X	X	94.0
336	Transportation Equipment	7.5	11.1	X	1.4	5.4	37.6	X	X	0.2
336111	Automobiles	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	X	X	0.0	0.0	X	X	X
3364	Aerospace Product and Parts	1.7	2.4	X	1.8	1.8	6.9	X	X	0.2
336411	Aircraft	4.1	6.7	X	14.1	2.7	12.1	X	X	0.1
337	Furniture and Related Products	28.4	26.7	X	X	44.0	52.5	X	X	99.0
339	Miscellaneous	22.7	23.5	X	74.5	32.6	48.6	X	X	93.5
	Total	2.9	9.8	7.0	14.0	3.2	9.8	15.8	42.9	0.6

(a) The Bureau of the Census classifies establishments using the 2017 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

(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 percent.

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

NA=Not available.

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.

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

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).