

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

Table 7.9 Expenditures for Purchased Energy Sources, 2018;

Level: National and Regional Data;
 Row: NAICS Codes; Column: Energy Sources;
 Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	HGL (excluding gasoline)(d)	Coal	Coke and Breeze	Other(e)
Total United States										
311	Food	10,596	7,005	1	D	2,843	107	112	D	253
3112	Grain and Oilseed Milling	1,700	900	*	20	586	3	48	0	142
311221	Wet Corn Milling	695	323	0	14	220	1	31	0	106
31131	Sugar Manufacturing	311	87	1	D	127	1	63	D	D
3114	Fruit and Vegetable Preserving and Specialty Food	1,252	821	*	7	405	16	0	0	4
3115	Dairy Product	1,299	899	*	8	365	17	0	0	9
3116	Animal Slaughtering and Processing	3,021	2,313	0	59	611	20	0	0	18
312	Beverage and Tobacco Products	1,631	1,316	*	8	269	28	1	0	9
3121	Beverages	1,548	1,260	*	7	247	24	1	0	9
3122	Tobacco	83	56	*	*	22	4	0	0	*
313	Textile Mills	805	657	*	5	111	17	7	0	8
314	Textile Product Mills	269	197	0	1	63	7	1	0	*
315	Apparel	86	72	0	*	12	2	*	0	*
316	Leather and Allied Products	32	23	0	1	7	1	0	0	*
321	Wood Products	2,646	1,758	4	221	299	78	*	0	286
321113	Sawmills	933	675	*	93	72	6	0	0	87
3212	Veneer, Plywood, and Engineered Woods	703	452	1	17	127	12	*	0	93
321219	Reconstituted Wood Products	420	261	1	4	81	3	0	0	71
3219	Other Wood Products	899	591	*	Q	84	29	*	0	100
322	Paper	6,969	3,378	97	70	2,282	50	226	0	866
322110	Pulp Mills	396	124	28	12	174	1	3	0	53
322121	Paper Mills, except Newsprint	2,316	999	40	24	867	11	152	0	224
322122	Newsprint Mills	337	219	0	1	18	1	0	0	99
322130	Paperboard Mills	2,500	992	28	30	892	7	65	0	485
323	Printing and Related Support	1,094	947	0	1	133	12	0	0	*
324	Petroleum and Coal Products	18,120	2,968	8	D	4,182	50	D	0	9,969
324110	Petroleum Refineries	8,607	2,596	0	0	3,823	*	0	0	2,189
324121	Asphalt Paving Mixture and Block	5,347	163	7	124	189	40	*	0	4,823
324122	Asphalt Shingle and Coating Materials	2,574	79	*	2	62	4	0	0	2,427
324191	Petroleum Lubricating Oil and Grease Products	178	90	0	Q	73	6	0	0	5
324199	Other Petroleum and Coal Products	1,415	40	0	D	35	*	D	0	524
325	Chemicals	59,887	8,933	523	152	11,420	32,709	432	15	5,703
325110	Petrochemicals	17,471	341	0	12	986	14,821	0	0	1,310
325120	Industrial Gases	2,066	1,202	0	1	791	Q	0	0	71
325180	Other Basic Inorganic Chemicals	3,862	1,350	520	4	925	479	91	15	477
325193	Ethyl Alcohol	2,067	682	0	5	1,213	26	81	0	58
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	1,906	148	0	4	439	1,131	24	0	160
325199	Other Basic Organic Chemicals	11,384	1,067	*	Q	2,101	5,270	180	0	2,692
325211	Plastics Materials and Resins	14,240	1,252	0	17	1,584	10,805	14	0	568
325212	Synthetic Rubber	328	100	0	*	70	94	6	0	59
325220	Artificial and Synthetic Fibers and Filaments	254	156	0	1	95	1	*	0	*
325311	Nitrogenous Fertilizers	D	285	0	6	2,119	Q	0	0	D
325312	Phosphatic Fertilizers	242	124	2	D	D	1	D	0	D
3254	Pharmaceuticals and Medicines	1,309	908	0	10	328	5	0	0	57
325412	Pharmaceutical Preparation	757	517	0	8	182	4	0	0	46
325992	Photographic Film, Paper, Plate, and Chemicals	D	65	0	*	13	*	0	0	D
326	Plastics and Rubber Products	4,376	3,848	0	Q	432	56	0	0	4
327	Nonmetallic Mineral Products	5,905	2,603	*	402	1,396	51	775	30	648
327120	Clay Building Material and Refractories	305	131	0	5	139	3	14	9	4
327211	Flat Glass	238	84	0	*	149	*	*	0	5
327212	Other Pressed and Blown Glass and Glassware	214	122	0	*	88	2	0	0	1
327213	Glass Containers	396	232	0	1	163	1	0	0	*
327215	Glass Products from Purchased Glass	326	278	0	1	43	2	0	0	2
327310	Cements	1,438	640	0	28	202	*	381	7	179
327410	Lime	504	96	0	16	65	*	247	4	76
327420	Gypsum	345	115	0	Q	206	4	0	0	*
327993	Mineral Wool	296	198	0	1	86	2	3	6	*
331	Primary Metals	13,282	6,034	3	106	2,432	52	1,679	2,695	280
331110	Iron and Steel Mills and Ferroalloys	8,568	2,783	3	73	1,521	5	1,623	2,459	101
3312	Steel Products from Purchased Steel	610	455	0	8	100	8	4	21	16
3313	Alumina and Aluminum	1,854	1,261	0	13	441	8	0	0	131
331314	Secondary Smelting and Alloying of Aluminum	166	90	0	4	70	2	0	0	*
331315	Aluminum Sheet, Plate and Foils	475	284	0	5	183	1	0	0	2
331318	Other Aluminum Rolling, Drawing and Extruding	223	144	0	2	73	4	0	0	*
3314	Nonferrous Metals, except Aluminum	1,049	732	0	7	169	17	51	43	31
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	503	369	0	4	58	1	51	2	19
3315	Foundries	1,200	804	*	5	201	15	2	173	1
331511	Iron Foundries	611	368	0	3	60	5	2	173	*
331523	Nonferrous Metal Die-Casting Foundries	226	158	*	*	64	4	0	0	*
331524	Aluminum Foundries, except Die-Casting	95	65	0	1	27	3	0	0	*
332	Fabricated Metal Products	4,042	3,243	0	Q	623	82	Q	0	66
333	Machinery	2,875	2,412	*	44	338	68	*	0	12
334	Computer and Electronic Products	2,023	1,801	*	Q	198	2	0	0	17
334413	Semiconductors and Related Devices	819	739	0	1	68	*	0	0	11
335	Electrical Equip., Appliances, and Components	1,274	848	0	1	186	14	0	0	225
336	Transportation Equipment	5,143	4,014	29	107	792	46	0	3	152
336111	Automobiles	407	280	0	3	91	2	0	0	31

336112	Light Trucks and Utility Vehicles	401	279	0	4	99	1	0	0	18
3364	Aerospace Product and Parts	1,078	850	0	7	146	8	0	0	68
336411	Aircraft	330	267	0	1	35	1	0	0	25
337	Furniture and Related Products	584	468	0	Q	92	14	*	0	5
339	Miscellaneous	1,056	879	0	Q	133	29	Q	0	7
	Total	142,695	53,405	666	D	28,246	33,474	D	D	18,510

Northeast Census Region

311	Food	1,019	699	*	Q	261	19	0	0	2
3112	Grain and Oilseed Milling	42	30	0	*	11	1	0	0	0
311221	Wet Corn Milling	4	2	0	0	1	1	0	0	0
31131	Sugar Manufacturing	9	1	0	1	7	*	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	125	75	*	2	45	2	0	0	*
3115	Dairy Product	184	122	*	2	53	6	0	0	1
3116	Animal Slaughtering and Processing	121	82	0	1	34	4	0	0	*
312	Beverage and Tobacco Products	193	149	*	4	36	3	0	0	*
3121	Beverages	187	146	0	4	33	3	0	0	*
3122	Tobacco	6	3	*	*	4	*	0	0	*
313	Textile Mills	85	51	0	Q	25	8	0	0	*
314	Textile Product Mills	34	24	0	*	7	Q	1	0	*
315	Apparel	24	18	0	0	4	Q	*	0	0
316	Leather and Allied Products	9	6	0	1	2	*	0	0	0
321	Wood Products	244	138	1	22	19	36	*	0	29
321113	Sawmills	61	40	*	11	1	1	0	0	7
3212	Veneer, Plywood, and Engineered Woods	35	21	*	1	6	1	*	0	5
321219	Reconstituted Wood Products	25	14	*	*	6	*	0	0	4
3219	Other Wood Products	114	75	*	8	11	5	*	0	Q
322	Paper	948	395	36	6	383	15	34	0	79
322110	Pulp Mills	D	D	5	1	D	*	0	0	D
322121	Paper Mills, except Newsprint	472	141	31	3	218	5	30	0	44
322122	Newsprint Mills	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	D	D	*	1	D	1	0	0	D
323	Printing and Related Support	191	167	0	Q	21	Q	0	0	*
324	Petroleum and Coal Products	1,640	175	1	D	196	2	0	0	D
324110	Petroleum Refineries	D	120	0	0	133	0	0	0	D
324121	Asphalt Paving Mixture and Block	1,050	36	1	31	45	1	0	0	936
324122	Asphalt Shingle and Coating Materials	273	9	0	*	9	1	0	0	254
324191	Petroleum Lubricating Oil and Grease Products	D	5	0	*	2	*	0	0	D
324199	Other Petroleum and Coal Products	D	6	0	D	7	*	0	0	*
325	Chemicals	1,459	803	*	12	485	9	30	0	118
325110	Petrochemicals	3	2	0	*	1	*	0	0	*
325120	Industrial Gases	160	123	0	0	11	Q	0	0	25
325180	Other Basic Inorganic Chemicals	103	65	0	*	25	*	0	0	13
325193	Ethyl Alcohol	30	8	0	*	22	*	0	0	*
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	27	8	0	0	19	0	0	0	*
325199	Other Basic Organic Chemicals	318	95	*	1	169	*	30	0	21
325211	Plastics Materials and Resins	116	74	0	Q	23	1	0	0	17
325212	Synthetic Rubber	5	2	0	*	1	2	0	0	*
325220	Artificial and Synthetic Fibers and Filaments	5	4	0	*	1	*	0	0	*
325311	Nitrogenous Fertilizers	10	3	0	3	4	*	0	0	*
325312	Phosphatic Fertilizers	*	*	0	*	0	*	0	0	0
3254	Pharmaceuticals and Medicines	378	251	0	7	114	3	0	0	5
325412	Pharmaceutical Preparation	200	146	0	6	46	2	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	D	31	0	*	5	*	0	0	D
326	Plastics and Rubber Products	480	406	0	Q	61	Q	0	0	*
327	Nonmetallic Mineral Products	722	269	0	70	222	9	22	0	130
327120	Clay Building Material and Refractories	39	15	0	1	13	*	9	0	1
327211	Flat Glass	22	7	0	0	16	*	0	0	0
327212	Other Pressed and Blown Glass and Glassware	46	27	0	*	17	Q	0	0	1
327213	Glass Containers	55	30	0	*	25	*	0	0	*
327215	Glass Products from Purchased Glass	41	28	0	*	12	1	0	0	*
327310	Cements	120	45	0	1	56	*	7	0	11
327410	Lime	20	4	0	*	9	0	6	0	0
327420	Gypsum	39	14	0	1	24	1	0	0	0
327993	Mineral Wool	18	8	0	*	10	*	0	0	0
331	Primary Metals	1,812	710	0	10	293	9	757	10	23
331110	Iron and Steel Mills and Ferroalloys	1,274	339	0	8	154	1	756	1	16
3312	Steel Products from Purchased Steel	51	35	0	*	10	1	*	*	5
3313	Alumina and Aluminum	222	145	0	1	75	1	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	3	2	0	*	2	*	0	0	0
331315	Aluminum Sheet, Plate and Foils	54	32	0	1	22	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	34	17	0	1	16	*	0	0	*
3314	Nonferrous Metals, except Aluminum	155	110	0	*	32	3	0	7	2
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	10	9	0	0	1	*	0	0	0
3315	Foundries	110	82	0	1	22	4	*	1	*
331511	Iron Foundries	41	32	0	*	6	1	*	1	*
331523	Nonferrous Metal Die-Casting Foundries	14	9	0	0	4	1	0	0	*
331524	Aluminum Foundries, except Die-Casting	12	8	0	*	3	1	0	0	*
332	Fabricated Metal Products	752	572	0	D	138	Q	0	0	D
333	Machinery	271	211	*	Q	36	19	*	0	Q
334	Computer and Electronic Products	510	435	*	Q	63	*	0	0	8
334413	Semiconductors and Related Devices	106	88	0	1	15	*	0	0	3
335	Electrical Equip., Appliances, and Components	174	130	0	*	32	1	0	0	Q
336	Transportation Equipment	465	357	Q	4	95	2	0	0	3
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	152	106	0	1	42	1	0	0	2
336411	Aircraft	31	25	0	*	5	*	0	0	*
337	Furniture and Related Products	87	64	0	Q	15	5	0	0	Q
339	Miscellaneous	257	195	0	Q	40	Q	0	0	*

Total		11,378	5,976	44	225	2,433	188	845	10	1,657
Midwest Census Region										
311	Food	3,913	2,403	*	D	1,193	25	101	D	131
3112	Grain and Oilseed Milling	1,261	619	0	18	457	1	47	0	119
311221	Wet Corn Milling	635	297	0	13	201	*	29	0	94
31131	Sugar Manufacturing	157	45	*	D	33	*	54	D	D
3114	Fruit and Vegetable Preserving and Specialty Food	399	314	0	1	81	3	0	0	1
3115	Dairy Product	476	333	0	1	136	3	0	0	3
3116	Animal Slaughtering and Processing	825	577	0	17	226	1	0	0	3
312	Beverage and Tobacco Products	169	119	*	*	48	2	0	0	*
3121	Beverages	169	119	*	*	48	2	0	0	*
3122	Tobacco	*	*	0	0	*	0	0	0	0
313	Textile Mills	32	26	0	*	5	1	0	0	*
314	Textile Product Mills	13	10	0	0	Q	0	0	0	0
315	Apparel	7	7	0	0	Q	0	0	0	0
316	Leather and Allied Products	15	10	0	*	4	1	0	0	*
321	Wood Products	413	273	*	Q	51	9	0	0	3
321113	Sawmills	58	46	*	7	4	1	0	0	*
3212	Veneer, Plywood, and Engineered Woods	80	61	0	1	17	1	0	0	*
321219	Reconstituted Wood Products	51	37	0	1	13	*	0	0	*
3219	Other Wood Products	261	162	0	Q	28	7	0	0	3
322	Paper	1,620	914	1	8	419	12	56	0	211
322110	Pulp Mills	18	14	0	*	4	*	0	0	*
322121	Paper Mills, except Newsprint	597	290	1	6	192	1	49	0	58
322122	Newsprint Mills	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	437	173	*	2	104	1	4	0	153
323	Printing and Related Support	400	335	0	*	62	3	0	0	*
324	Petroleum and Coal Products	4,152	654	1	D	514	5	D	0	D
324110	Petroleum Refineries	D	565	0	0	437	*	0	0	D
324121	Asphalt Paving Mixture and Block	1,507	31	*	34	42	3	0	0	1,397
324122	Asphalt Shingle and Coating Materials	774	23	*	1	18	1	0	0	731
324191	Petroleum Lubricating Oil and Grease Products	25	16	0	*	8	*	0	0	*
324199	Other Petroleum and Coal Products	D	19	0	D	10	*	D	0	D
325	Chemicals	5,570	2,375	78	12	2,346	388	90	0	281
325110	Petrochemicals	1	*	0	*	1	*	0	0	0
325120	Industrial Gases	371	342	0	0	19	*	0	0	10
325180	Other Basic Inorganic Chemicals	409	193	78	D	89	*	0	0	D
325193	Ethyl Alcohol	1,883	617	0	5	1,102	26	81	0	52
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	50	18	0	1	8	*	6	0	16
325199	Other Basic Organic Chemicals	494	218	0	2	181	25	Q	0	68
325211	Plastics Materials and Resins	662	206	0	1	129	D	2	0	D
325212	Synthetic Rubber	21	14	0	*	5	*	0	0	2
325220	Artificial and Synthetic Fibers and Filaments	7	6	0	0	1	*	0	0	0
325311	Nitrogenous Fertilizers	D	102	0	*	427	*	0	0	D
325312	Phosphatic Fertilizers	1	1	0	*	*	*	0	0	0
3254	Pharmaceuticals and Medicines	377	237	0	*	120	*	0	0	18
325412	Pharmaceutical Preparation	249	144	0	*	90	*	0	0	14
325992	Photographic Film, Paper, Plate, and Chemicals	5	5	0	*	*	*	0	0	*
326	Plastics and Rubber Products	1,995	1,797	0	Q	183	14	0	0	*
327	Nonmetallic Mineral Products	1,556	780	0	114	345	6	195	15	101
327120	Clay Building Material and Refractories	69	25	0	1	27	1	4	9	Q
327211	Flat Glass	81	27	0	*	52	*	0	0	2
327212	Other Pressed and Blown Glass and Glassware	64	33	0	*	29	1	0	0	*
327213	Glass Containers	101	60	0	*	41	0	0	0	*
327215	Glass Products from Purchased Glass	138	125	0	*	13	*	0	0	*
327310	Cements	339	184	0	6	21	*	83	1	44
327410	Lime	227	34	0	3	34	*	107	1	47
327420	Gypsum	58	22	0	2	34	*	0	0	*
327993	Mineral Wool	122	86	0	*	31	*	0	4	*
331	Primary Metals	7,044	2,356	3	46	1,215	24	683	2,595	121
331110	Iron and Steel Mills and Ferroalloys	5,189	1,057	3	36	899	2	678	2,450	63
3312	Steel Products from Purchased Steel	202	141	0	2	50	3	3	0	4
3313	Alumina and Aluminum	553	400	0	4	106	2	0	0	41
331314	Secondary Smelting and Alloying of Aluminum	57	24	0	2	31	1	0	0	*
331315	Aluminum Sheet, Plate and Foils	141	94	0	1	45	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	77	53	0	*	21	2	0	0	*
3314	Nonferrous Metals, except Aluminum	340	263	0	2	45	10	0	8	12
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	175	151	0	1	13	*	0	2	9
3315	Foundries	759	495	*	2	116	7	1	137	*
331511	Iron Foundries	419	240	0	2	37	2	1	137	*
331523	Nonferrous Metal Die-Casting Foundries	145	105	*	*	37	2	0	0	*
331524	Aluminum Foundries, except Die-Casting	52	36	0	*	15	1	0	0	*
332	Fabricated Metal Products	1,894	1,550	0	D	272	28	0	0	D
333	Machinery	1,169	898	0	30	199	33	0	0	Q
334	Computer and Electronic Products	289	263	0	*	22	Q	0	0	3
334413	Semiconductors and Related Devices	88	80	0	*	5	*	0	0	3
335	Electrical Equip., Appliances, and Components	399	314	0	*	72	Q	0	0	Q
336	Transportation Equipment	2,561	2,001	0	17	429	18	0	3	94
336111	Automobiles	233	148	0	1	64	1	0	0	19
336112	Light Trucks and Utility Vehicles	230	152	0	2	62	*	0	0	14
3364	Aerospace Product and Parts	272	200	0	1	33	3	0	0	36
336411	Aircraft	52	39	0	*	10	Q	0	0	1
337	Furniture and Related Products	220	168	0	Q	45	3	0	0	*
339	Miscellaneous	367	311	0	*	48	Q	Q	0	4
Total		33,798	17,563	84	D	7,476	584	D	D	D
South Census Region										
311	Food	2,471	1,665	*	52	690	23	3	0	38
3112	Grain and Oilseed Milling	288	172	*	2	90	1	2	0	22

311221	Wet Corn Milling	42	20	0	1	9	*	2	0	11
31131	Sugar Manufacturing	66	21	*	3	40	*	1	0	*
3114	Fruit and Vegetable Preserving and Specialty Food	211	133	0	2	71	4	0	0	1
3115	Dairy Product	221	168	0	4	47	1	0	0	Q
3116	Animal Slaughtering and Processing	1,010	692	0	36	254	14	0	0	13
312	Beverage and Tobacco Products	742	609	*	2	115	8	1	0	7
3121	Beverages	666	556	0	1	96	4	1	0	7
3122	Tobacco	76	53	*	*	19	4	0	0	*
313	Textile Mills	650	551	*	3	73	8	7	0	7
314	Textile Product Mills	187	139	0	1	42	5	0	0	*
315	Apparel	46	39	0	*	6	1	0	0	*
316	Leather and Allied Products	6	5	0	0	*	*	0	0	*
321	Wood Products	1,400	974	1	83	171	20	0	0	151
321113	Sawmills	628	463	*	46	53	2	0	0	63
3212	Veneer, Plywood, and Engineered Woods	381	251	1	8	77	5	0	0	39
321219	Reconstituted Wood Products	253	160	1	2	52	2	0	0	36
3219	Other Wood Products	346	234	0	21	35	12	0	0	44
322	Paper	3,433	1,471	43	51	1,271	15	137	0	445
322110	Pulp Mills	D	D	D	11	D	1	3	0	D
322121	Paper Mills, except Newsprint	961	409	8	14	356	4	73	0	97
322122	Newsprint Mills	D	79	0	1	15	*	0	0	D
322130	Paperboard Mills	D	D	D	25	D	4	61	0	D
323	Printing and Related Support	360	312	0	*	43	6	0	0	*
324	Petroleum and Coal Products	8,736	1,473	3	59	2,192	17	D	0	D
324110	Petroleum Refineries	D	1,305	0	0	2,028	0	0	0	D
324121	Asphalt Paving Mixture and Block	1,767	58	3	51	62	11	*	0	1,582
324122	Asphalt Shingle and Coating Materials	1,188	31	0	1	25	1	0	0	1,129
324191	Petroleum Lubricating Oil and Grease Products	D	66	0	Q	60	5	0	0	D
324199	Other Petroleum and Coal Products	D	13	0	4	16	*	D	0	D
325	Chemicals	51,466	4,824	444	125	8,255	32,302	218	15	5,283
325110	Petrochemicals	17,466	339	0	12	984	14,821	0	0	1,310
325120	Industrial Gases	1,186	460	0	1	691	*	0	0	35
325180	Other Basic Inorganic Chemicals	2,990	907	442	2	733	478	*	15	412
325193	Ethyl Alcohol	71	23	0	*	48	*	0	0	*
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	1,815	121	0	2	405	1,131	15	0	141
325199	Other Basic Organic Chemicals	10,513	715	0	Q	1,735	5,245	148	0	2,600
325211	Plastics Materials and Resins	13,430	946	0	15	1,428	D	12	0	D
325212	Synthetic Rubber	300	81	0	*	63	92	6	0	57
325220	Artificial and Synthetic Fibers and Filaments	240	145	0	1	93	*	*	0	*
325311	Nitrogenous Fertilizers	1,783	139	0	2	1,640	*	0	0	1
325312	Phosphatic Fertilizers	D	94	2	D	D	*	D	0	D
3254	Pharmaceuticals and Medicines	334	230	0	3	67	1	0	0	33
325412	Pharmaceutical Preparation	198	132	0	2	32	1	0	0	31
325992	Photographic Film, Paper, Plate, and Chemicals	21	16	0	*	4	*	0	0	*
326	Plastics and Rubber Products	1,548	1,326	0	Q	161	26	0	0	4
327	Nonmetallic Mineral Products	2,156	999	*	104	590	13	311	9	129
327120	Clay Building Material and Refractories	178	81	0	4	90	1	0	0	2
327211	Flat Glass	102	38	0	*	62	*	*	0	2
327212	Other Pressed and Blown Glass and Glassware	95	55	0	*	38	1	0	0	*
327213	Glass Containers	125	68	0	*	57	*	0	0	*
327215	Glass Products from Purchased Glass	106	89	0	*	13	1	0	0	2
327310	Cements	675	264	0	16	88	*	202	4	100
327410	Lime	203	45	0	10	20	*	106	2	20
327420	Gypsum	168	57	0	5	104	2	0	0	*
327993	Mineral Wool	100	60	0	*	33	1	3	2	*
331	Primary Metals	3,525	2,325	0	43	746	13	232	78	89
331110	Iron and Steel Mills and Ferroalloys	1,822	1,189	0	26	396	2	180	8	20
3312	Steel Products from Purchased Steel	326	252	0	5	38	3	0	20	7
3313	Alumina and Aluminum	799	515	0	7	226	4	0	0	47
331314	Secondary Smelting and Alloying of Aluminum	53	17	0	2	33	2	0	0	*
331315	Aluminum Sheet, Plate and Foils	249	141	0	3	102	1	0	0	2
331318	Other Aluminum Rolling, Drawing and Extruding	79	49	0	*	27	2	0	0	*
3314	Nonferrous Metals, except Aluminum	357	214	0	3	46	3	51	27	14
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	183	113	0	3	7	*	51	0	9
3315	Foundries	222	155	0	2	40	2	*	23	*
331511	Iron Foundries	120	84	0	1	12	1	0	23	*
331523	Nonferrous Metal Die-Casting Foundries	45	28	0	*	16	1	0	0	*
331524	Aluminum Foundries, except Die-Casting	18	12	0	*	6	*	0	0	*
332	Fabricated Metal Products	831	654	0	1	146	25	Q	0	Q
333	Machinery	1,245	Q	0	Q	82	9	0	0	Q
334	Computer and Electronic Products	497	440	0	*	52	*	0	0	3
334413	Semiconductors and Related Devices	239	220	0	*	16	*	0	0	3
335	Electrical Equip., Appliances, and Components	553	274	0	1	71	3	0	0	205
336	Transportation Equipment	1,650	1,265	25	79	213	23	0	0	45
336111	Automobiles	143	107	0	*	23	*	0	0	12
336112	Light Trucks and Utility Vehicles	170	127	0	2	37	1	0	0	4
3364	Aerospace Product and Parts	334	284	0	1	27	2	0	0	20
336411	Aircraft	166	142	0	*	7	*	0	0	16
337	Furniture and Related Products	209	172	0	1	27	5	*	0	Q
339	Miscellaneous	282	235	0	*	36	Q	0	0	Q
	Total	81,994	20,895	516	646	14,982	32,533	D	102	D

West Census Region

311	Food	3,193	2,239	0	124	700	40	8	2	Q
3112	Grain and Oilseed Milling	109	79	0	*	28	1	0	0	*
311221	Wet Corn Milling	14	5	0	0	9	*	0	0	*
31131	Sugar Manufacturing	79	20	0	*	46	*	8	2	3
3114	Fruit and Vegetable Preserving and Specialty Food	517	299	0	2	207	7	0	0	2
3115	Dairy Product	418	275	0	1	129	8	0	0	4
3116	Animal Slaughtering and Processing	Q	Q	0	6	97	Q	0	0	Q

312	Beverage and Tobacco Products	527	440	0	1	70	14	0	0	2
3121	Beverages	527	439	0	1	70	14	0	0	2
3122	Tobacco	*	*	0	0	0	0	0	0	0
313	Textile Mills	38	29	0	0	8	*	0	0	1
314	Textile Product Mills	35	24	0	0	Q	*	0	0	0
315	Apparel	9	8	0	0	*	*	0	0	0
316	Leather and Allied Products	2	2	0	0	*	*	0	0	*
321	Wood Products	588	374	2	40	57	13	0	0	103
321113	Sawmills	186	126	0	28	14	2	0	0	16
3212	Veneer, Plywood, and Engineered Woods	207	119	0	7	28	5	0	0	49
321219	Reconstituted Wood Products	91	49	0	1	10	*	0	0	31
3219	Other Wood Products	178	120	0	5	10	6	0	0	Q
322	Paper	967	598	16	5	210	7	0	0	130
322110	Pulp Mills	D	6	D	0	0	0	0	0	D
322121	Paper Mills, except Newsprint	286	159	0	1	100	1	0	0	25
322122	Newsprint Mills	D	140	0	*	3	1	0	0	D
322130	Paperboard Mills	239	135	D	3	69	1	0	0	D
323	Printing and Related Support	143	134	0	*	8	1	0	0	*
324	Petroleum and Coal Products	3,592	666	Q	8	1,281	Q	0	0	1,608
324110	Petroleum Refineries	2,219	606	0	0	1,225	0	0	0	388
324121	Asphalt Paving Mixture and Block	1,023	38	Q	8	40	Q	0	0	908
324122	Asphalt Shingle and Coating Materials	339	16	0	*	11	1	0	0	312
324191	Petroleum Lubricating Oil and Grease Products	6	3	0	0	3	*	0	0	*
324199	Other Petroleum and Coal Products	5	3	0	*	2	*	0	0	*
325	Chemicals	1,392	931	0	2	334	11	93	0	21
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	349	278	0	0	71	*	0	0	*
325180	Other Basic Inorganic Chemicals	360	185	0	D	77	*	91	0	D
325193	Ethyl Alcohol	82	34	0	*	41	*	0	0	7
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	14	1	0	*	7	*	2	0	3
325199	Other Basic Organic Chemicals	59	38	0	*	17	*	0	0	3
325211	Plastics Materials and Resins	32	27	0	*	5	*	0	0	*
325212	Synthetic Rubber	3	2	0	0	*	*	0	0	*
325220	Artificial and Synthetic Fibers and Filaments	1	1	0	0	*	*	0	0	0
325311	Nitrogenous Fertilizers	93	40	0	*	48	Q	0	0	*
325312	Phosphatic Fertilizers	D	30	0	D	29	*	0	0	*
3254	Pharmaceuticals and Medicines	220	191	0	*	28	1	0	0	*
325412	Pharmaceutical Preparation	110	95	0	*	14	1	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	D	13	0	*	3	*	0	0	D
326	Plastics and Rubber Products	352	319	0	*	Q	5	0	0	Q
327	Nonmetallic Mineral Products	1,470	554	0	115	238	Q	247	Q	Q
327120	Clay Building Material and Refractories	19	10	0	*	9	*	0	0	*
327211	Flat Glass	33	13	0	*	19	*	0	0	1
327212	Other Pressed and Blown Glass and Glassware	10	7	0	*	3	*	0	0	*
327213	Glass Containers	115	75	0	*	39	*	0	0	*
327215	Glass Products from Purchased Glass	41	35	0	*	5	*	0	0	1
327310	Cements	304	147	0	5	37	*	88	2	24
327410	Lime	53	13	0	2	1	*	28	*	9
327420	Gypsum	80	23	0	Q	43	1	0	0	*
327993	Mineral Wool	56	44	0	*	11	*	0	0	*
331	Primary Metals	901	643	0	7	178	6	8	12	48
331110	Iron and Steel Mills and Ferroalloys	283	198	0	3	72	*	8	0	3
3312	Steel Products from Purchased Steel	31	27	0	*	2	2	0	0	*
3313	Alumina and Aluminum	281	201	0	2	35	1	0	0	42
331314	Secondary Smelting and Alloying of Aluminum	53	47	0	1	5	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	31	17	0	*	13	*	0	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	33	24	0	*	8	1	0	0	*
3314	Nonferrous Metals, except Aluminum	197	145	0	1	46	1	0	0	3
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	134	96	0	1	37	*	0	0	1
3315	Foundries	109	72	0	*	23	2	0	12	*
331511	Iron Foundries	30	13	0	*	5	*	0	12	*
331523	Nonferrous Metal Die-Casting Foundries	22	15	0	*	7	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	12	9	0	*	3	*	0	0	*
332	Fabricated Metal Products	565	467	0	Q	68	11	0	0	Q
333	Machinery	189	160	0	Q	22	6	0	0	*
334	Computer and Electronic Products	727	663	0	*	61	*	0	0	3
334413	Semiconductors and Related Devices	385	351	0	*	32	*	0	0	2
335	Electrical Equip., Appliances, and Components	148	130	0	*	Q	Q	0	0	Q
336	Transportation Equipment	466	390	0	6	56	4	0	0	10
336111	Automobiles	30	24	0	2	4	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	*	0	0	*	*	0	0	0
3364	Aerospace Product and Parts	321	260	0	5	44	3	0	0	10
336411	Aircraft	81	60	0	1	12	*	0	0	8
337	Furniture and Related Products	69	63	0	0	5	1	0	0	*
339	Miscellaneous	150	139	0	*	9	*	0	0	Q
	Total	15,525	8,971	22	312	3,354	168	356	20	2,322

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

(b) *Distillate Fuel Oil* includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

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

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

(e) *Other energy sources* include such combustible energy sources as wood waste, hydrogen, and waste oils and tars.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

Notes: Totals may not equal sum of components because of independent rounding. *Purchases* exclude quantities that are transferred in from other establishments of the same company, quantities purchased by a central purchasing office offsite, and quantities for which payment is made in-kind.

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

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

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

RSE Table 7.9 Relative Standard Errors for Table 7.9;
 Unit: Percents.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	HGL (excluding natural gasoline)(d)	Coal	Coke and Breeze	Other(e)
Total United States										
311	Food	7.5	10.4	0.6	D	4.1	18.9	0.0	D	18.2
3112	Grain and Oilseed Milling	2.5	1.7	16.7	8.0	6.0	10.8	0.0	X	2.6
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	D	0.0	0.0	0.0	D	D
3114	Fruit and Vegetable Preserving and Specialty Food	4.9	7.1	0.0	10.6	3.0	6.4	X	X	6.2
3115	Dairy Product	2.9	3.5	0.0	20.2	2.5	17.3	X	X	20.5
3116	Animal Slaughtering and Processing	23.3	29.3	X	13.5	5.5	20.6	X	X	24.2
312	Beverage and Tobacco Products	12.4	15.1	0.0	23.9	10.2	10.8	0.0	X	6.5
3121	Beverages	13.1	15.8	0.0	25.4	11.2	12.5	0.0	X	6.5
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
313	Textile Mills	5.1	5.4	88.0	19.0	11.4	19.9	15.4	X	5.0
314	Textile Product Mills	9.9	9.0	X	26.5	16.8	32.1	0.0	X	82.9
315	Apparel	11.4	12.4	X	51.8	14.1	42.7	99.4	X	98.2
316	Leather and Allied Products	5.8	4.6	X	4.2	17.6	28.8	X	X	15.6
321	Wood Products	3.7	2.8	0.5	26.7	8.4	5.4	65.8	X	11.2
321113	Sawmills	6.7	5.6	4.7	3.9	31.8	7.6	X	X	1.8
3212	Veneer, Plywood, and Engineered Woods	1.0	1.3	0.0	3.9	1.4	3.9	80.4	X	0.4
321219	Reconstituted Wood Products	0.9	1.2	0.0	3.8	1.0	4.4	X	X	0.1
3219	Other Wood Products	8.4	5.2	85.9	62.0	11.7	14.1	76.9	X	31.9
322	Paper	1.1	1.6	0.0	0.8	1.5	11.3	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	7.2	7.4	X	43.0	9.5	17.8	X	X	54.8
324	Petroleum and Coal Products	1.5	0.7	24.7	D	0.4	28.7	D	X	2.5
324110	Petroleum Refineries	0.0	0.0	X	X	0.0	0.0	X	X	0.0
324121	Asphalt Paving Mixture and Block	5.1	6.7	25.9	16.2	3.6	35.4	19.9	X	5.1
324122	Asphalt Shingle and Coating Materials	1.7	1.4	0.0	1.1	0.9	3.8	X	X	1.8
324199	Other Petroleum and Coal Products	18.0	18.0	X	57.5	19.1	33.2	X	X	16.6
325	Chemicals	0.0	0.0	X	D	0.0	0.0	D	X	0.0
325110	Petrochemicals	2.1	1.7	0.1	27.9	1.8	3.5	6.8	0.0	2.3
325110	Petrochemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325120	Industrial Gases	3.1	3.2	X	0.0	6.3	68.0	X	X	15.3
325180	Other Basic Inorganic Chemicals	4.0	2.7	0.1	4.2	12.7	0.1	0.0	0.0	6.4
325193	Ethyl Alcohol	1.2	1.8	X	2.7	1.4	8.8	0.0	X	4.7
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
325199	Other Basic Organic Chemicals	5.5	6.7	0.0	57.8	4.9	10.3	0.4	X	2.9
325211	Plastics Materials and Resins	7.2	2.8	X	2.6	1.2	9.4	0.0	X	5.2
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	D	10.9	X	2.9	3.2	59.6	X	X	D
325312	Phosphatic Fertilizers	0.0	0.0	0.0	D	D	0.0	D	X	D
3254	Pharmaceuticals and Medicines	4.0	3.7	X	2.9	9.7	21.5	X	X	24.0
325412	Pharmaceutical Preparation	4.9	2.2	X	3.5	17.1	27.5	X	X	29.6
325992	Photographic Film, Paper, Plate, and Chemicals	D	0.4	X	0.2	0.4	3.8	X	X	D
326	Plastics and Rubber Products	6.7	7.1	X	74.6	13.6	18.1	X	X	14.3
327	Nonmetallic Mineral Products	5.3	3.1	97.3	16.7	2.5	30.0	13.4	10.6	32.1
327120	Clay Building Material and Refractories	2.4	4.4	X	3.3	2.1	7.4	0.0	0.0	32.3
327211	Flat Glass	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
327212	Other Pressed and Blown Glass and Glassware	0.7	0.8	X	1.6	0.8	20.7	X	X	1.2
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	1.4	X	27.3	1.2	2.9	X	X	0.2
327310	Cements	0.3	0.2	X	0.2	1.1	1.7	0.2	9.8	0.1
327410	Lime	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	3.4	2.6	X	51.0	0.6	2.2	X	X	0.0
327993	Mineral Wool	0.7	0.7	X	0.0	0.9	9.3	0.0	0.0	0.1
331	Primary Metals	0.6	1.3	0.6	0.8	0.2	2.4	0.1	0.2	1.2
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	13.8	17.6	X	9.6	4.1	14.7	0.0	0.0	19.4
3313	Alumina and Aluminum	0.2	0.2	X	0.6	0.4	1.7	X	X	0.1
331314	Secondary Smelting and Alloying of Aluminum	1.6	1.1	X	2.2	2.6	3.6	X	X	3.6
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	1.1	1.3	X	0.4	0.6	2.4	X	X	6.1
3314	Nonferrous Metals, except Aluminum	1.1	1.2	X	5.1	1.9	2.7	0.0	10.3	3.7
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.9	0.9	X	0.0	2.4	4.4	0.0	0.0	0.1
3315	Foundries	0.9	1.0	89.7	1.8	1.1	2.0	0.3	0.7	3.4
331511	Iron Foundries	1.4	1.9	X	1.2	2.1	4.2	0.0	0.7	5.9
331523	Nonferrous Metal Die-Casting Foundries	1.8	1.7	89.7	4.6	2.5	1.8	X	X	4.3
331524	Aluminum Foundries, except Die-Casting	1.6	2.0	X	1.8	1.5	3.6	X	X	2.8
332	Fabricated Metal Products	9.0	9.1	X	53.7	14.2	19.3	70.6	X	38.5
333	Machinery	21.5	25.3	99.0	26.8	12.4	20.8	99.0	X	45.4
334	Computer and Electronic Products	6.7	6.8	0.0	51.5	14.3	34.1	X	X	19.7
334413	Semiconductors and Related Devices	3.7	3.9	X	1.0	3.8	11.7	X	X	5.6
335	Electrical Equip., Appliances, and Components	9.4	8.4	X	23.7	17.2	35.8	X	X	30.7
336	Transportation Equipment	8.8	9.8	8.2	29.4	9.0	11.6	X	30.3	7.0
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	4.4	5.4	X	3.3	2.4	7.9	X	X	2.4

336411	Aircraft	12.7	15.6	X	5.5	1.6	43.3	X	X	0.1
337	Furniture and Related Products	7.9	8.0	X	57.0	12.2	20.7	75.8	X	50.0
339	Miscellaneous	9.1	9.1	X	59.3	14.2	41.2	99.0	X	29.0
	Total	1.3	2.2	0.5	D	1.0	3.4	D	D	2.0

Northeast Census Region

311	Food	11.6	13.1	0.0	74.5	11.4	18.0	X	X	18.2
3112	Grain and Oilseed Milling	3.2	4.4	X	65.7	1.0	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	6.4	8.0	0.0	19.3	8.9	15.3	X	X	11.3
3115	Dairy Product	5.0	6.1	0.0	14.7	5.4	12.8	X	X	23.0
3116	Animal Slaughtering and Processing	2.8	2.8	X	2.7	2.6	27.3	X	X	25.1
312	Beverage and Tobacco Products	5.7	6.4	0.0	41.4	5.7	26.7	X	X	0.0
3121	Beverages	5.9	6.5	X	41.7	6.3	27.0	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	7.4	8.3	X	57.0	13.0	6.2	X	X	83.5
314	Textile Product Mills	25.9	29.6	X	79.4	33.3	58.0	0.0	X	89.8
315	Apparel	25.2	25.4	X	X	34.1	71.2	99.4	X	X
316	Leather and Allied Products	7.9	9.4	X	2.3	12.0	9.8	X	X	X
321	Wood Products	7.9	8.6	0.6	15.1	14.8	6.6	65.8	X	33.3
321113	Sawmills	1.9	2.4	0.0	3.2	17.0	9.1	X	X	1.3
3212	Veneer, Plywood, and Engineered Woods	1.5	1.6	0.0	6.9	1.9	14.0	80.4	X	5.4
321219	Reconstituted Wood Products	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
3219	Other Wood Products	16.8	15.9	85.9	43.9	25.9	45.7	76.9	X	59.5
322	Paper	5.8	8.3	0.0	8.3	7.4	31.6	0.0	X	0.1
322110	Pulp Mills	D	D	0.0	0.0	D	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	D	D	0.0	0.0	D	0.0	X	X	D
323	Printing and Related Support	21.2	21.6	X	53.7	29.4	59.5	X	X	98.9
324	Petroleum and Coal Products	4.1	1.2	4.0	D	1.6	1.9	X	X	D
324110	Petroleum Refineries	D	0.0	X	X	0.0	X	X	X	D
324121	Asphalt Paving Mixture and Block	6.4	5.7	4.0	16.1	6.9	4.5	X	X	6.7
324122	Asphalt Shingle and Coating Materials	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
		D	11.4	X	25.4	1.7	2.3	X	X	D
324199	Other Petroleum and Coal Products	D	0.0	X	D	0.0	0.0	X	X	0.0
325	Chemicals	5.5	5.4	0.0	3.3	8.3	15.8	0.0	X	10.3
325110	Petrochemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325120	Industrial Gases	7.7	2.1	X	X	23.8	86.2	X	X	42.8
325180	Other Basic Inorganic Chemicals	5.8	3.9	X	4.2	13.6	20.7	X	X	12.5
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	X	0.0	X	X	X	0.0
325199	Other Basic Organic Chemicals	0.5	1.0	0.0	0.0	0.5	14.8	0.0	X	0.0
325211	Plastics Materials and Resins	1.5	2.1	X	52.6	2.3	10.6	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	3.6	5.2	X	4.4	1.2	41.1	X	X	0.1
325412	Pharmaceutical Preparation	3.5	4.2	X	4.8	2.1	45.5	X	X	0.5
325992	Photographic Film, Paper, Plate, and Chemicals	D	0.0	X	0.0	0.0	0.0	X	X	D
326	Plastics and Rubber Products	25.5	26.4	X	88.1	43.8	67.0	X	X	65.3
327	Nonmetallic Mineral Products	12.5	12.4	X	49.8	6.1	31.9	0.0	X	43.4
327120	Clay Building Material and Refractories	2.4	4.0	X	0.1	3.2	8.1	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	1.8	1.5	X	2.9	2.0	54.1	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	1.3	1.5	X	54.2	1.3	6.2	X	X	0.3
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	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	0.3	0.7	X	0.6	0.4	4.3	0.0	4.4	7.3
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	5.5	3.4	X	7.7	3.8	31.7	0.0	0.0	34.6
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	3.0	3.8	X	0.0	2.9	8.6	X	0.0	9.6
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	X	X	0.0	0.0	X	X	X
3315	Foundries	2.0	2.3	X	9.7	1.9	3.7	0.0	47.7	23.2
331511	Iron Foundries	1.6	1.2	X	6.7	1.6	1.4	0.0	47.7	51.9
331523	Nonferrous Metal Die-Casting Foundries	9.2	13.1	X	X	2.6	3.5	X	X	0.0
331524	Aluminum Foundries, except Die-Casting	2.4	2.9	X	8.2	0.8	7.0	X	X	6.4
332	Fabricated Metal Products	25.1	25.0	X	D	39.0	63.3	X	X	D
333	Machinery	18.6	19.6	99.0	50.2	23.2	37.2	99.0	X	60.7
334	Computer and Electronic Products	12.9	12.8	0.0	64.3	20.2	51.8	X	X	39.7
334413	Semiconductors and Related Devices	2.5	2.6	X	0.6	2.4	0.0	X	X	13.9
335	Electrical Equip., Appliances, and Components	24.0	24.0	X	41.0	29.5	41.6	X	X	50.2
336	Transportation Equipment	34.8	41.4	61.5	22.6	16.9	12.2	X	X	11.1
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	3.5	4.8	X	0.1	1.0	3.0	X	X	0.1
336411	Aircraft	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
337	Furniture and Related Products	23.7	24.0	X	71.2	33.0	50.0	X	X	70.8
339	Miscellaneous	25.6	26.9	X	67.0	32.5	62.9	X	X	75.1
	Total	3.2	4.6	5.3	20.4	3.7	10.8	0.1	4.4	5.3

3114	Fruit and Vegetable Preserving and Specialty Food	4.6	5.4	X	17.2	4.8	16.8	X	X	26.0
3115	Dairy Product	12.5	14.1	X	42.5	8.5	1.6	X	X	60.4
3116	Animal Slaughtering and Processing	4.0	4.6	X	16.8	4.6	28.1	X	X	31.6
312	Beverage and Tobacco Products	25.8	30.9	0.0	7.3	23.5	9.0	0.0	X	1.2
3121	Beverages	28.7	33.8	X	9.7	28.1	16.8	0.0	X	1.2
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
313	Textile Mills	6.2	6.4	88.0	5.2	16.7	40.2	15.4	X	5.6
314	Textile Product Mills	11.8	10.7	X	27.1	18.1	40.2	X	X	87.8
315	Apparel	18.4	20.7	X	51.8	12.5	41.4	X	X	98.2
316	Leather and Allied Products	10.3	10.3	X	X	5.9	46.8	X	X	0.0
321	Wood Products	5.3	4.6	2.0	8.4	14.4	14.7	X	X	11.2
321113	Sawmills	10.0	8.1	83.8	7.7	43.2	16.6	X	X	2.5
3212	Veneer, Plywood, and Engineered Woods	1.3	1.5	0.0	5.0	1.8	3.1	X	X	0.3
321219	Reconstituted Wood Products	1.4	1.7	0.0	7.1	1.5	6.7	X	X	0.1
3219	Other Wood Products	11.2	10.3	X	28.0	25.8	25.1	X	X	38.1
322	Paper	1.8	3.2	0.0	0.1	1.5	12.0	0.0	X	0.1
322110	Pulp Mills	D	D	D	0.0	D	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	D	0.0	X	0.0	0.0	0.0	X	X	D
322130	Paperboard Mills	D	D	D	0.0	D	0.0	0.0	X	D
323	Printing and Related Support	15.3	15.5	X	47.1	19.7	29.1	X	X	85.1
324	Petroleum and Coal Products	1.9	1.3	20.0	33.3	0.7	25.4	D	X	D
324110	Petroleum Refineries	D	0.0	X	X	0.0	X	X	X	D
324121	Asphalt Paving Mixture and Block	9.1	17.8	20.0	38.1	9.0	36.4	19.9	X	8.1
324122	Asphalt Shingle and Coating Materials	3.0	2.2	X	1.4	1.9	9.8	X	X	3.1
324199	Other Petroleum and Coal Products	D	24.5	X	70.1	23.4	38.0	X	X	D
325	Chemicals	2.4	2.6	0.1	34.0	2.1	3.6	13.5	0.0	2.5
325110	Petrochemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325120	Industrial Gases	5.0	7.1	X	0.0	7.2	54.7	X	X	0.1
325180	Other Basic Inorganic Chemicals	5.2	3.9	0.1	7.1	15.9	0.1	0.0	0.0	7.4
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	0.0	X	0.0
325199	Other Basic Organic Chemicals	6.0	9.3	X	60.2	5.4	10.4	0.0	X	3.0
325211	Plastics Materials and Resins	7.6	3.6	X	2.2	1.2	D	0.0	X	D
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	5.4	20.8	X	6.5	4.1	49.0	X	X	23.0
325312	Phosphatic Fertilizers	D	0.0	0.0	D	D	0.0	D	X	D
3254	Pharmaceuticals and Medicines	4.7	2.6	X	0.3	2.3	1.9	X	X	40.8
325412	Pharmaceutical Preparation	7.5	2.9	X	0.5	4.0	2.4	X	X	43.3
325992	Photographic Film, Paper, Plate, and Chemicals	1.2	1.4	X	22.9	1.3	5.2	X	X	0.0
326	Plastics and Rubber Products	14.3	15.1	X	81.0	20.9	23.3	X	X	3.2
327	Nonmetallic Mineral Products	2.6	3.6	97.3	21.9	2.4	26.5	0.2	4.7	1.1
327120	Clay Building Material and Refractories	3.9	6.9	X	4.6	3.1	12.2	X	X	26.8
327211	Flat Glass	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
327212	Other Pressed and Blown Glass and Glassware	1.0	0.8	X	0.0	1.4	28.1	X	X	3.9
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	2.4	X	28.6	1.4	2.1	X	X	0.1
327310	Cements	0.6	0.5	X	0.0	2.5	0.0	0.4	10.2	0.0
327410	Lime	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	2.1	4.6	X	1.8	1.1	3.7	X	X	0.0
327993	Mineral Wool	0.8	1.1	X	0.0	0.3	16.3	0.0	0.0	0.6
331	Primary Metals	2.4	3.4	X	1.7	0.6	8.3	0.0	5.6	2.9
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	25.7	31.7	X	14.6	9.8	40.4	X	0.0	32.1
3313	Alumina and Aluminum	0.3	0.2	X	1.0	0.7	2.2	X	X	0.1
331314	Secondary Smelting and Alloying of Aluminum	3.8	3.1	X	4.3	4.6	4.5	X	X	4.4
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	1.0	1.4	X	1.4	0.4	3.0	X	X	0.0
3314	Nonferrous Metals, except Aluminum	2.1	2.2	X	0.0	4.3	13.4	0.0	16.4	8.1
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
3315	Foundries	1.1	1.2	X	3.7	2.3	4.6	0.0	0.0	6.2
331511	Iron Foundries	1.5	1.9	X	1.6	1.8	8.7	X	0.0	0.0
331523	Nonferrous Metal Die-Casting Foundries	2.9	2.0	X	0.0	5.7	1.6	X	X	1.6
331524	Aluminum Foundries, except Die-Casting	1.4	1.7	X	0.0	0.3	23.2	X	X	0.0
332	Fabricated Metal Products	19.3	19.4	X	45.0	32.7	33.4	70.6	X	56.0
333	Machinery	48.6	52.7	X	68.3	27.9	34.7	X	X	77.4
334	Computer and Electronic Products	22.2	22.7	X	1.6	46.2	51.0	X	X	13.2
334413	Semiconductors and Related Devices	4.2	4.4	X	0.0	0.0	0.0	X	X	13.8
335	Electrical Equip., Appliances, and Components	15.3	13.9	X	38.2	16.4	27.5	X	X	33.4
336	Transportation Equipment	10.3	10.3	1.7	39.2	17.2	20.0	X	X	8.8
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	13.6	15.6	X	29.1	11.9	10.6	X	X	8.1
336411	Aircraft	24.9	29.0	X	0.0	4.2	18.8	X	X	0.0
337	Furniture and Related Products	16.5	15.9	X	44.7	28.8	25.7	75.8	X	62.2
339	Miscellaneous	17.5	17.0	X	68.6	30.0	62.1	X	X	89.8
	Total	1.8	3.5	0.2	10.3	1.4	3.5	D	4.3	D

West Census Region

311	Food	24.1	31.7	X	35.3	11.7	41.6	0.0	0.0	55.6
3112	Grain and Oilseed Milling	4.9	6.8	X	0.0	4.5	30.2	X	X	7.1
311221	Wet Corn Milling	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	4.4	6.2	X	26.8	4.2	9.6	X	X	4.3
3115	Dairy Product	2.9	3.0	X	36.6	4.1	34.7	X	X	40.7
3116	Animal Slaughtering and Processing	65.9	70.3	X	13.0	27.1	53.8	X	X	85.5
312	Beverage and Tobacco Products	12.3	14.5	X	28.4	5.6	19.2	X	X	29.3
3121	Beverages	12.3	14.5	X	28.4	5.6	19.2	X	X	29.3

3122	Tobacco	0.0	0.0	X	X	X	X	X	X	X
313	Textile Mills	11.3	14.3	X	X	10.3	72.5	X	X	0.0
314	Textile Product Mills	48.7	44.4	X	X	68.0	86.6	X	X	X
315	Apparel	25.7	26.6	X	X	32.9	32.2	X	X	X
316	Leather and Allied Products	7.4	7.5	X	X	15.9	15.8	X	X	0.0
321	Wood Products	5.9	5.1	0.0	3.6	4.4	10.6	X	X	25.1
321113	Sawmills	1.6	2.2	X	1.4	2.3	15.0	X	X	0.3
3212	Veneer, Plywood, and Engineered Woods	2.3	3.6	X	7.7	3.7	8.3	X	X	0.4
321219	Reconstituted Wood Products	1.7	2.9	X	0.0	0.1	12.3	X	X	0.1
3219	Other Wood Products	19.1	15.4	X	27.5	19.4	21.6	X	X	68.6
322	Paper	4.9	6.8	0.0	6.1	4.1	26.0	X	X	0.0
322110	Pulp Mills	D	0.0	D	X	X	X	X	X	D
322121	Paper Mills, except Newsprint	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
322122	Newsprint Mills	D	0.0	X	0.0	0.0	0.0	X	X	D
322130	Paperboard Mills	0.0	0.0	D	0.0	0.0	0.0	X	X	D
323	Printing and Related Support	23.6	24.2	X	99.0	29.3	47.2	X	X	72.3
324	Petroleum and Coal Products	3.7	0.4	58.7	9.5	0.1	51.1	X	X	7.4
324110	Petroleum Refineries	0.0	0.0	X	X	0.0	X	X	X	0.0
324121	Asphalt Paving Mixture and Block	12.9	7.2	58.7	10.0	4.3	52.3	X	X	13.0
324122	Asphalt Shingle and Coating Materials	1.3	2.9	X	20.9	0.8	1.7	X	X	1.3
		0.0	0.0	X	X	0.0	0.0	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	4.5	6.0	X	1.9	2.5	39.8	0.0	X	5.5
325110	Petrochemicals	X	X	X	X	X	X	X	X	X
325120	Industrial Gases	4.9	6.2	X	X	0.2	95.1	X	X	0.0
325180	Other Basic Inorganic Chemicals	1.4	1.6	X	D	2.6	10.7	0.0	X	D
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	0.0	X	0.0
325199	Other Basic Organic Chemicals	6.4	7.2	X	3.4	5.9	15.7	X	X	0.1
325211	Plastics Materials and Resins	1.1	1.2	X	11.4	3.8	7.1	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	22.1	27.5	X	15.0	13.5	60.2	X	X	0.0
325312	Phosphatic Fertilizers	D	0.0	X	D	0.0	0.0	X	X	0.0
3254	Pharmaceuticals and Medicines	6.7	7.0	X	13.5	6.5	38.6	X	X	90.5
325412	Pharmaceutical Preparation	8.5	8.6	X	16.0	9.6	45.9	X	X	50.3
325992	Photographic Film, Paper, Plate, and Chemicals	D	0.1	X	0.0	0.4	0.0	X	X	D
326	Plastics and Rubber Products	26.1	26.8	X	99.0	59.4	34.4	X	X	91.7
327	Nonmetallic Mineral Products	20.4	10.5	X	30.9	11.5	64.3	41.9	53.3	69.7
327120	Clay Building Material and Refractories	1.9	2.8	X	4.0	1.5	5.6	X	X	42.3
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	6.7	10.5	X	84.4	3.7	13.6	X	X	7.1
327213	Glass Containers	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
327215	Glass Products from Purchased Glass	1.7	1.8	X	0.0	2.7	3.1	X	X	0.6
327310	Cements	0.5	0.5	X	1.3	0.3	23.1	0.6	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	14.0	5.7	X	78.1	0.1	0.1	X	X	0.0
327993	Mineral Wool	2.2	1.2	X	0.0	6.4	7.2	X	X	0.0
331	Primary Metals	0.8	0.9	X	4.4	1.1	2.9	0.0	0.0	0.1
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	6.6	7.2	X	7.7	15.1	1.2	X	X	26.6
3313	Alumina and Aluminum	0.3	0.4	X	0.0	0.6	3.5	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	2.9	3.1	X	0.0	2.5	5.5	X	X	0.0
3314	Nonferrous Metals, except Aluminum	3.5	3.6	X	22.8	4.2	7.6	X	X	0.1
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	3.5	3.5	X	0.0	3.9	23.1	X	X	0.3
3315	Foundries	1.7	2.0	X	5.1	1.9	8.0	X	0.0	1.2
331511	Iron Foundries	0.7	1.0	X	0.0	0.8	29.4	X	0.0	0.0
331523	Nonferrous Metal Die-Casting Foundries	2.9	2.3	X	0.0	4.4	9.3	X	X	0.0
331524	Aluminum Foundries, except Die-Casting	5.3	4.5	X	64.2	8.7	0.6	X	X	0.0
332	Fabricated Metal Products	24.0	23.7	X	72.6	36.5	38.4	X	X	81.7
333	Machinery	23.9	24.0	X	74.9	40.0	49.2	X	X	62.3
334	Computer and Electronic Products	8.6	8.7	X	11.8	14.2	57.3	X	X	14.3
334413	Semiconductors and Related Devices	6.9	7.1	X	4.3	7.8	7.9	X	X	2.7
335	Electrical Equip., Appliances, and Components	31.7	29.0	X	96.8	51.3	77.9	X	X	95.6
336	Transportation Equipment	10.4	11.7	X	1.8	6.8	21.4	X	X	0.8
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	3.4	4.0	X	1.5	1.9	3.4	X	X	0.5
336411	Aircraft	8.5	10.7	X	7.4	3.7	16.9	X	X	0.1
337	Furniture and Related Products	23.5	23.7	X	X	39.9	47.4	X	X	99.0
339	Miscellaneous	22.4	22.7	X	76.0	31.0	44.6	X	X	91.7
	Total	5.6	8.3	8.3	18.1	2.8	16.0	29.1	15.8	10.3

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

(b) *Distillate Fuel Oil* includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

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

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

(e) *Other energy sources* include such combustible energy sources as wood waste, hydrogen, and waste oils and tars.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

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

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. *Purchases* exclude quantities that are transferred in from other establishments of the same company, quantities purchased by a central purchasing office offsite, and quantities for which payment is made in-kind.

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: CPDPP EV21 212)

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