

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

**Table 10.12 Capability to Switch HGL (excluding natural gasoline) to Alternative Energy Sources, 2018;**

Level: National Data and Regional Data;

Row: NAICS Codes

Column: Energy Sources;

Unit: Thousand Barrels.

NAICS Code(a)	Subsector and Industry	HGL (excluding natural gasoline)				Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)	
<b>Total United States</b>												
311	Food	2	*	1	*	*	*	0	0	0	*	
3112	Grain and Oilseed Milling	*	*	*	*	*	*	0	0	0	0	
311221	Wet Corn Milling	*	*	*	*	*	0	0	0	0	0	
31131	Sugar Manufacturing	*	*	*	*	0	0	0	0	0	0	
3114	Fruit and Vegetable Preserving and Specialty Food	*	*	*	*	*	*	0	0	0	0	
3115	Dairy Product	*	*	*	*	*	*	0	0	0	*	
3116	Animal Slaughtering and Processing	*	*	*	*	*	*	0	0	0	0	
312	Beverage and Tobacco Products	*	*	*	*	*	*	0	0	0	0	
3121	Beverages	*	*	*	*	*	*	0	0	0	0	
3122	Tobacco	*	*	*	*	*	0	0	0	0	0	
313	Textile Mills	*	*	*	*	*	*	0	0	0	0	
314	Textile Product Mills	*	*	*	0	*	*	0	0	0	0	
315	Apparel	*	*	*	*	0	0	0	*	0	0	
316	Leather and Allied Products	*	*	*	0	*	*	0	0	0	*	
321	Wood Products	1	*	1	*	*	*	*	*	0	*	
321113	Sawmills	*	*	*	*	*	*	*	*	0	*	
3212	Veneer, Plywood, and Engineered Woods	*	*	*	*	*	*	0	*	0	*	
321219	Reconstituted Wood Products	*	0	*	0	0	0	0	0	0	0	
3219	Other Wood Products	*	*	*	*	*	*	0	0	0	*	
322	Paper	1	*	1	*	*	*	0	0	0	0	
322110	Pulp Mills	*	0	*	0	0	0	0	0	0	0	
322121	Paper Mills, except Newsprint	*	*	*	*	*	0	0	0	0	0	
322122	Newsprint Mills	*	0	*	0	0	0	0	0	0	0	
322130	Paperboard Mills	*	*	*	*	*	*	0	0	0	0	
323	Printing and Related Support	*	*	*	*	*	0	0	0	0	*	
324	Petroleum and Coal Products	5	2	3	*	1	*	*	0	0	*	
324110	Petroleum Refineries	4	1	3	0	1	0	0	0	0	0	
324121	Asphalt Paving Mixture and Block	1	*	1	*	*	*	*	0	0	*	
324122	Asphalt Shingle and Coating Materials	*	*	*	*	*	0	0	0	0	*	

324191	Petroleum Lubricating Oil and Grease Products	*	0	*	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	*	*	*	*	0	*	0	0	0	0
325	Chemicals	2	*	2	*	*	*	*	0	0	*
325110	Petrochemicals	*	*	*	0	*	0	0	0	0	0
325120	Industrial Gases	*	*	*	*	*	0	0	0	0	0
325180	Other Basic Inorganic Chemicals	*	*	*	*	*	*	0	0	0	0
325193	Ethyl Alcohol	*	*	*	0	*	0	0	0	0	*
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	*	*	*	*	*	0	0	0	0	0
325199	Other Basic Organic Chemicals	*	*	*	*	*	*	0	0	0	*
325211	Plastics Materials and Resins	D	*	D	*	*	*	0	0	0	*
325212	Synthetic Rubber	*	*	*	*	*	*	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	*	*	*	*	*	*	*	0	0	0
325311	Nitrogenous Fertilizers	*	0	*	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	*	*	*	0	*	0	*	0	0	0
3254	Pharmaceuticals and Medicines	*	*	*	*	*	*	*	0	0	0
325412	Pharmaceutical Preparation	*	*	*	*	*	*	*	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	*	0	0	0	0	0	0	0
326	Plastics and Rubber Products	1	*	1	*	*	*	*	0	0	0
327	Nonmetallic Mineral Products	1	*	1	*	*	*	*	0	0	*
327120	Clay Building Material and Refractories	*	*	*	*	*	*	*	0	0	*
327211	Flat Glass	*	*	*	*	*	*	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	*	*	*	0	0	0	0	0	0
327213	Glass Containers	*	*	*	*	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	*	*	*	0	*	0	0	0	0
327310	Cements	*	*	*	*	0	*	0	0	0	0
327410	Lime	*	0	*	0	0	0	0	0	0	0
327420	Gypsum	*	0	*	0	0	0	0	0	0	0
327993	Mineral Wool	*	*	*	*	*	0	0	0	0	*
331	Primary Metals	1	*	1	*	*	*	*	0	0	*
331110	Iron and Steel Mills and Ferroalloys	*	*	*	*	*	*	*	0	0	0
3312	Steel Products from Purchased Steel	*	*	*	*	*	*	*	0	0	0
3313	Alumina and Aluminum	*	*	*	*	*	*	*	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	*	*	*	*	*	*	*	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	*	0	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	*	*	*	*	0	*	0	0	0	0
3314	Nonferrous Metals, except Aluminum	*	*	*	*	*	*	*	0	0	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	*	*	*	*	*	*	*	0	0	*
3315	Foundries	*	*	*	*	*	*	*	0	0	*
331511	Iron Foundries	*	*	*	*	*	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	*	*	*	*	0	*	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	*	*	*	*	*	0	0	0	*
332	Fabricated Metal Products	1	*	1	*	*	*	*	0	0	0
333	Machinery	1	*	1	*	*	0	0	0	0	*
334	Computer and Electronic Products	*	*	*	*	*	*	*	0	0	*

334413	Semiconductors and Related Devices	*	*	*	*	*	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	*	*	*	*	0	*	0	0	0	*
336	Transportation Equipment	1	*	1	*	*	*	0	0	0	*
336111	Automobiles	*	*	*	*	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	*	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	*	*	*	*	0	0	0	0	*
336411	Aircraft	*	0	*	0	0	0	0	0	0	0
337	Furniture and Related Products	*	*	*	*	*	*	0	0	0	*
339	Miscellaneous	*	*	*	*	*	0	*	*	0	*
	Total	17	3	14	*	2	*	*	*	0	*

**Northeast Census Region**

311	Food	*	*	*	*	*	*	0	0	0	0
3112	Grain and Oilseed Milling	*	0	*	0	0	0	0	0	0	0
311221	Wet Corn Milling	*	0	*	0	0	0	0	0	0	0
31131	Sugar Manufacturing	*	0	*	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	*	*	*	*	0	0	0	0	0
3115	Dairy Product	*	*	*	*	*	*	0	0	0	0
3116	Animal Slaughtering and Processing	*	*	*	0	*	0	0	0	0	0
312	Beverage and Tobacco Products	*	*	*	*	*	*	0	0	0	0
3121	Beverages	*	*	*	*	*	*	0	0	0	0
3122	Tobacco	*	*	*	0	*	0	0	0	0	0
313	Textile Mills	*	*	*	*	0	*	0	0	0	0
314	Textile Product Mills	*	0	*	0	0	0	0	0	0	0
315	Apparel	*	*	*	0	0	0	0	*	0	0
316	Leather and Allied Products	*	0	*	0	0	0	0	0	0	0
321	Wood Products	*	*	*	*	*	*	*	0	0	0
321113	Sawmills	*	*	*	*	*	*	*	0	0	0
3212	Veneer, Plywood, and Engineered Woods	*	0	*	0	0	0	0	0	0	0
321219	Reconstituted Wood Products	*	0	*	0	0	0	0	0	0	0
3219	Other Wood Products	*	*	*	*	0	0	0	0	0	0
322	Paper	*	*	*	*	0	0	0	0	0	0
322110	Pulp Mills	*	0	*	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	*	0	0	0	0	0	0	0
322122	Newsprint Mills	0	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	*	0	*	0	0	0	0	0	0	0
323	Printing and Related Support	*	0	*	0	0	0	0	0	0	0
324	Petroleum and Coal Products	*	*	*	0	*	*	*	0	0	0
324110	Petroleum Refineries	*	*	0	0	*	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	*	*	*	0	*	*	*	0	0	0
324122	Asphalt Shingle and Coating Materials	*	0	*	0	0	0	0	0	0	0
324191	Petroleum Lubricating Oil and Grease Products	*	0	*	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	*	0	*	0	0	0	0	0	0	0
325	Chemicals	*	*	*	*	*	0	*	0	0	*

325110	Petrochemicals	*	*	*	0	*	0	0	0	0	0
325120	Industrial Gases	*	0	*	0	0	0	0	0	0	0
325180	Other Basic Inorganic Chemicals	*	*	*	*	*	0	0	0	0	0
325193	Ethyl Alcohol	*	*	*	0	0	0	0	0	0	*
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	*	0	*	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	*	*	*	*	*	0	0	0	0	0
325212	Synthetic Rubber	*	0	*	0	0	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	*	0	*	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	*	0	*	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	*	*	*	0	*	0	*	0	0	0
3254	Pharmaceuticals and Medicines	*	*	*	*	0	0	0	0	0	0
325412	Pharmaceutical Preparation	*	0	*	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	*	0	0	0	0	0	0	0
326	Plastics and Rubber Products	*	*	*	*	0	0	0	0	0	0
327	Nonmetallic Mineral Products	*	*	*	*	*	*	0	0	0	*
327120	Clay Building Material and Refractories	*	*	*	*	0	*	0	0	0	0
327211	Flat Glass	*	0	*	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	0	*	0	0	0	0	0	0	0
327213	Glass Containers	*	0	*	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	0	*	0	0	0	0	0	0	0
327310	Cements	*	*	*	*	0	0	0	0	0	0
327410	Lime	0	0	0	0	0	0	0	0	0	0
327420	Gypsum	*	0	*	0	0	0	0	0	0	0
327993	Mineral Wool	*	*	*	0	*	0	0	0	0	*
331	Primary Metals	*	*	*	*	*	*	0	0	0	0
331110	Iron and Steel Mills and Ferroalloys	*	*	*	*	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	*	*	*	*	*	0	0	0	0	0
3313	Alumina and Aluminum	*	0	*	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	*	0	*	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	*	0	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	*	0	*	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	*	*	*	*	*	0	0	0	0	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	*	0	*	0	0	0	0	0	0	0
3315	Foundries	*	*	*	*	0	*	0	0	0	0
331511	Iron Foundries	*	0	*	0	0	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	*	*	*	*	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	*	*	0	0	*	0	0	0	0
332	Fabricated Metal Products	*	0	*	0	0	0	0	0	0	0
333	Machinery	*	*	*	*	0	0	0	0	0	0
334	Computer and Electronic Products	*	0	*	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	*	0	*	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	*	0	*	0	0	0	0	0	0	0
336	Transportation Equipment	*	0	*	0	0	0	0	0	0	0

336111	Automobiles	0	0	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	0	*	0	0	0	0	0	0	0
336411	Aircraft	*	0	*	0	0	0	0	0	0	0
337	Furniture and Related Products	*	0	*	0	0	0	0	0	0	0
339	Miscellaneous	*	*	*	0	0	0	*	0	0	0
	Total	2	*	2	*	*	*	*	*	0	*

**Midwest Census Region**

311	Food	*	*	*	*	*	*	0	0	0	*
3112	Grain and Oilseed Milling	*	*	*	*	*	*	0	0	0	0
311221	Wet Corn Milling	*	*	*	0	*	0	0	0	0	0
31131	Sugar Manufacturing	*	0	*	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	*	*	*	0	0	0	0	0	0
3115	Dairy Product	*	*	*	*	*	*	0	0	0	*
3116	Animal Slaughtering and Processing	*	*	*	0	*	0	0	0	0	0
312	Beverage and Tobacco Products	*	0	*	0	0	0	0	0	0	0
3121	Beverages	*	0	*	0	0	0	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	*	0	*	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	*	0	*	0	0	0	0	0	0	0
321	Wood Products	*	*	*	*	*	*	0	*	0	*
321113	Sawmills	*	*	*	*	*	*	0	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	*	*	*	*	0	0	*	0	0
321219	Reconstituted Wood Products	*	0	*	0	0	0	0	0	0	0
3219	Other Wood Products	*	0	*	0	0	0	0	0	0	0
322	Paper	*	*	*	*	*	0	0	0	0	0
322110	Pulp Mills	*	0	*	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	*	*	*	0	0	0	0	0	0
322122	Newsprint Mills	0	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	*	*	*	*	0	0	0	0	0	0
323	Printing and Related Support	*	*	*	*	0	0	0	0	0	0
324	Petroleum and Coal Products	1	1	1	*	1	*	0	0	0	*
324110	Petroleum Refineries	1	1	1	0	1	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	*	*	*	*	0	*	0	0	0	*
324122	Asphalt Shingle and Coating Materials	*	*	*	*	*	0	0	0	0	*
324191	Petroleum Lubricating Oil and Grease Products	*	0	*	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	*	*	*	0	0	*	0	0	0	0
325	Chemicals	D	*	D	*	*	*	*	0	0	0
325110	Petrochemicals	*	0	*	0	0	0	0	0	0	0
325120	Industrial Gases	*	*	*	*	*	0	0	0	0	0
325180	Other Basic Inorganic Chemicals	*	*	*	*	0	0	0	0	0	0

325193	Ethyl Alcohol	*	*	*	0	*	0	0	0	0	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	*	*	*	0	*	0	0	0	0	0
325199	Other Basic Organic Chemicals	*	*	*	*	*	*	0	0	0	0
325211	Plastics Materials and Resins	*	*	*	*	*	*	0	0	0	0
325212	Synthetic Rubber	*	0	*	0	0	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	*	0	*	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	*	0	*	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	*	*	*	0	*	0	0	0	0	0
3254	Pharmaceuticals and Medicines	*	*	*	*	0	0	0	0	0	0
325412	Pharmaceutical Preparation	*	0	*	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	*	0	0	0	0	0	0	0
326	Plastics and Rubber Products	*	*	*	*	0	0	0	0	0	0
327	Nonmetallic Mineral Products	*	*	*	*	*	*	0	0	0	*
327120	Clay Building Material and Refractories	*	*	*	*	*	*	0	0	0	*
327211	Flat Glass	*	0	*	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	0	*	0	0	0	0	0	0	0
327213	Glass Containers	*	0	*	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	*	*	*	0	*	0	0	0	0
327310	Cements	*	0	*	0	0	0	0	0	0	0
327410	Lime	*	0	*	0	0	0	0	0	0	0
327420	Gypsum	*	0	*	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	0	0	0	0	0	0	0
331	Primary Metals	*	*	*	*	*	*	0	0	0	*
331110	Iron and Steel Mills and Ferroalloys	*	*	*	*	*	*	0	0	0	0
3312	Steel Products from Purchased Steel	*	*	*	*	0	*	0	0	0	0
3313	Alumina and Aluminum	*	*	*	*	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	*	*	*	*	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	*	0	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	*	0	*	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	*	*	*	*	*	*	0	0	0	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	*	*	*	*	*	*	0	0	0	0
3315	Foundries	*	*	*	*	*	*	0	0	0	*
331511	Iron Foundries	*	*	*	*	*	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	*	*	*	*	0	*	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	*	*	*	*	0	0	0	0	*
332	Fabricated Metal Products	*	*	*	*	*	*	*	0	0	0
333	Machinery	1	*	1	*	*	0	0	0	0	0
334	Computer and Electronic Products	*	*	*	*	*	*	0	0	0	*
334413	Semiconductors and Related Devices	*	*	*	0	*	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	*	*	*	*	0	0	0	0	0	*
336	Transportation Equipment	D	*	D	*	*	*	0	0	0	0
336111	Automobiles	*	*	*	*	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	*	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	*	*	0	*	0	0	0	0	0

336411	Aircraft	*	0	*	0	0	0	0	0	0	0
337	Furniture and Related Products	*	*	*	*	*	*	0	0	0	*
339	Miscellaneous	*	*	*	*	0	0	0	*	0	0
	Total	5	1	4	*	1	*	*	*	0	*

**South Census Region**

311	Food	1	*	*	*	*	*	0	0	0	0
3112	Grain and Oilseed Milling	*	*	*	*	0	*	0	0	0	0
311221	Wet Corn Milling	*	0	*	0	0	0	0	0	0	0
31131	Sugar Manufacturing	*	*	*	*	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	*	*	*	0	0	0	0	0	0
3115	Dairy Product	*	*	*	0	*	0	0	0	0	0
3116	Animal Slaughtering and Processing	*	*	*	*	*	*	0	0	0	0
312	Beverage and Tobacco Products	*	*	*	*	*	0	0	0	0	0
3121	Beverages	*	*	*	*	*	0	0	0	0	0
3122	Tobacco	*	*	*	*	*	0	0	0	0	0
313	Textile Mills	*	*	*	*	*	*	0	0	0	0
314	Textile Product Mills	*	*	*	0	*	*	0	0	0	0
315	Apparel	*	*	*	*	0	0	0	0	0	0
316	Leather and Allied Products	*	0	*	0	0	0	0	0	0	0
321	Wood Products	*	*	*	*	*	*	0	*	0	*
321113	Sawmills	*	*	*	*	*	*	0	*	0	*
3212	Veneer, Plywood, and Engineered Woods	*	*	*	*	0	*	0	0	0	0
321219	Reconstituted Wood Products	*	0	*	0	0	0	0	0	0	0
3219	Other Wood Products	*	*	*	*	0	*	0	0	0	0
322	Paper	*	*	*	0	*	0	0	0	0	0
322110	Pulp Mills	*	0	*	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	*	*	0	*	0	0	0	0	0
322122	Newsprint Mills	*	0	*	0	0	0	0	0	0	0
322130	Paperboard Mills	*	0	*	0	0	0	0	0	0	0
323	Printing and Related Support	*	*	*	*	0	0	0	0	0	0
324	Petroleum and Coal Products	1	*	1	*	*	*	*	0	0	*
324110	Petroleum Refineries	1	*	*	0	*	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	*	*	*	0	0	*	*	0	0	0
324122	Asphalt Shingle and Coating Materials	*	*	*	*	*	0	0	0	0	*
324191	Petroleum Lubricating Oil and Grease Products	*	0	*	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	*	0	*	0	0	0	0	0	0	0
325	Chemicals	D	*	D	*	*	*	*	0	0	*
325110	Petrochemicals	*	0	*	0	0	0	0	0	0	0
325120	Industrial Gases	*	*	*	*	0	0	0	0	0	0
325180	Other Basic Inorganic Chemicals	*	*	*	0	0	*	0	0	0	0
325193	Ethyl Alcohol	*	0	*	0	0	0	0	0	0	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	*	*	*	*	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	*	*	*	0	*	0	0	0	0	0

325211	Plastics Materials and Resins	D	*	D	*	*	*	0	0	0	*
325212	Synthetic Rubber	*	*	*	*	*	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	*	*	*	*	*	*	*	0	0	0
325311	Nitrogenous Fertilizers	*	0	*	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	*	0	*	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	*	*	*	0	*	*	*	0	0	0
325412	Pharmaceutical Preparation	*	*	*	0	*	*	*	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	*	0	0	0	0	0	0	0
326	Plastics and Rubber Products	*	*	*	*	*	*	*	0	0	0
327	Nonmetallic Mineral Products	*	*	*	*	*	*	0	0	0	0
327120	Clay Building Material and Refractories	*	*	*	*	0	*	0	0	0	0
327211	Flat Glass	*	*	*	*	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	*	*	*	0	0	0	0	0	0
327213	Glass Containers	*	*	*	*	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	*	*	*	0	*	0	0	0	0
327310	Cements	*	0	*	0	0	0	0	0	0	0
327410	Lime	*	0	*	0	0	0	0	0	0	0
327420	Gypsum	*	0	*	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	0	0	0	0	0	0	0
331	Primary Metals	*	*	*	*	*	*	*	0	0	*
331110	Iron and Steel Mills and Ferroalloys	*	*	*	*	*	*	*	0	0	0
3312	Steel Products from Purchased Steel	*	0	*	0	0	0	0	0	0	0
3313	Alumina and Aluminum	*	*	*	*	*	*	*	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	*	*	*	*	*	*	*	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	*	0	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	*	*	*	*	0	*	0	0	0	0
3314	Nonferrous Metals, except Aluminum	*	*	*	*	*	0	0	0	0	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	*	*	*	*	*	0	0	0	0	*
3315	Foundries	*	*	*	0	*	0	0	0	0	0
331511	Iron Foundries	*	*	*	0	*	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	*	0	*	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	*	0	0	0	0	0	0	0
332	Fabricated Metal Products	*	0	*	0	0	0	0	0	0	0
333	Machinery	*	*	*	*	0	0	0	0	0	*
334	Computer and Electronic Products	*	*	*	0	*	0	0	0	0	0
334413	Semiconductors and Related Devices	*	*	*	0	*	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	*	*	*	0	0	*	0	0	0	0
336	Transportation Equipment	D	*	D	*	*	*	0	0	0	*
336111	Automobiles	*	0	*	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	*	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	*	*	*	*	0	0	0	0	*
336411	Aircraft	*	0	*	0	0	0	0	0	0	0
337	Furniture and Related Products	*	*	*	*	*	0	0	0	0	0
339	Miscellaneous	*	*	*	0	*	0	0	0	0	*



Total		5	1	5	*	*	*	*	*	0	*
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**West Census Region**

311	Food	1	*	Q	*	*	*	0	0	0	*
3112	Grain and Oilseed Milling	*	*	*	*	*	0	0	0	0	0
311221	Wet Corn Milling	*	*	*	*	0	0	0	0	0	0
31131	Sugar Manufacturing	*	*	*	*	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	*	*	*	0	*	0	0	0	0
3115	Dairy Product	*	*	*	*	*	*	0	0	0	0
3116	Animal Slaughtering and Processing	*	0	*	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	*	*	*	*	*	*	0	0	0	0
3121	Beverages	*	*	*	*	*	*	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	*	0	*	0	0	0	0	0	0	0
314	Textile Product Mills	*	0	*	0	0	0	0	0	0	0
315	Apparel	*	*	0	*	0	0	0	0	0	0
316	Leather and Allied Products	*	*	*	0	*	*	0	0	0	*
321	Wood Products	*	*	*	*	*	*	*	0	0	*
321113	Sawmills	*	*	*	*	*	*	*	0	0	0
3212	Veneer, Plywood, and Engineered Woods	*	*	*	0	*	*	0	0	0	*
321219	Reconstituted Wood Products	*	0	*	0	0	0	0	0	0	0
3219	Other Wood Products	*	*	*	*	*	0	0	0	0	*
322	Paper	*	*	*	*	*	*	0	0	0	0
322110	Pulp Mills	0	0	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	*	0	0	0	0	0	0	0
322122	Newsprint Mills	*	0	*	0	0	0	0	0	0	0
322130	Paperboard Mills	*	*	*	*	*	*	0	0	0	0
323	Printing and Related Support	*	*	*	*	*	0	0	0	0	*
324	Petroleum and Coal Products	3	1	2	*	1	*	0	0	0	*
324110	Petroleum Refineries	2	1	1	0	1	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	*	*	*	0	0	*	0	0	0	*
324122	Asphalt Shingle and Coating Materials	*	0	*	0	0	0	0	0	0	0
324191	Petroleum Lubricating Oil and Grease Products	*	0	*	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	*	*	*	*	0	*	0	0	0	0
325	Chemicals	*	*	*	*	0	*	*	0	0	*
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	*	0	*	0	0	0	0	0	0	0
325180	Other Basic Inorganic Chemicals	*	*	*	0	0	*	0	0	0	0
325193	Ethyl Alcohol	*	0	*	0	0	0	0	0	0	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	*	0	*	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	*	*	*	*	0	*	0	0	0	*
325211	Plastics Materials and Resins	*	0	*	0	0	0	0	0	0	0
325212	Synthetic Rubber	*	0	*	0	0	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	*	0	*	0	0	0	0	0	0	0

325311	Nitrogenous Fertilizers	*	0	*	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	*	*	*	0	0	0	*	0	0	0
3254	Pharmaceuticals and Medicines	*	*	*	*	0	0	0	0	0	0
325412	Pharmaceutical Preparation	*	*	*	*	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	*	0	0	0	0	0	0	0
326	Plastics and Rubber Products	*	0	*	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	*	*	*	*	*	*	0	0	0	*
327120	Clay Building Material and Refractories	*	*	*	*	*	*	0	0	0	0
327211	Flat Glass	*	*	*	0	*	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	0	*	0	0	0	0	0	0	0
327213	Glass Containers	*	0	*	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	*	*	*	0	0	0	0	0	0
327310	Cements	*	*	*	0	0	*	0	0	0	0
327410	Lime	*	0	*	0	0	0	0	0	0	0
327420	Gypsum	*	0	*	0	0	0	0	0	0	0

327993	Mineral Wool	*	*	*	*	0	0	0	0	0	0
331	Primary Metals	*	*	*	*	*	*	0	0	0	0
331110	Iron and Steel Mills and Ferroalloys	*	0	*	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	*	*	*	*	*	*	0	0	0	0
3313	Alumina and Aluminum	*	0	*	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	*	0	*	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	*	0	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	*	0	*	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	*	*	*	*	0	0	0	0	0	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	*	0	*	0	0	0	0	0	0	0
3315	Foundries	*	*	*	*	*	*	0	0	0	0
331511	Iron Foundries	*	*	*	*	0	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	*	0	*	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	*	0	0	0	0	0	0	0
332	Fabricated Metal Products	*	*	*	*	0	0	0	0	0	0
333	Machinery	*	*	*	*	0	0	0	0	0	0
334	Computer and Electronic Products	*	*	*	*	0	0	0	0	0	0
334413	Semiconductors and Related Devices	*	*	*	*	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	*	0	*	0	0	0	0	0	0	0
336	Transportation Equipment	*	*	*	*	0	0	0	0	0	0
336111	Automobiles	*	*	*	*	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	*	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	*	*	*	0	0	0	0	0	0
336411	Aircraft	*	0	*	0	0	0	0	0	0	0
337	Furniture and Related Products	*	0	*	0	0	0	0	0	0	0
339	Miscellaneous	*	*	*	0	0	0	0	0	0	*
	Total	4	1	3	*	1	*	*	0	0	*

**Economic Characteristic (f)**

**Value of Shipments and Receipts  
(million dollars)**

Under 20	4	*	4	*	*	*	*	*	0	0
20-49	3	*	2	*	*	*	*	0	0	0
50-99	1	*	1	*	*	*	*	0	0	0
100-249	2	*	2	*	*	*	*	0	0	0
250-499	1	*	1	*	*	*	0	0	0	0
500 and Over	6	2	4	*	2	*	0	0	0	0
Total	17	3	14	*	2	*	*	*	0	0

**Employment Size**

Under 50	4	*	4	*	*	*	*	*	0	*
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50-99	2	*	2	*	*	*	*	*	0	*
100-249	3	*	3	*	*	*	*	0	0	*
250-499	3	1	2	*	1	*	*	*	0	*
500-999	3	*	2	*	*	*	0	0	0	*
1000 and Over	1	1	1	*	*	*	0	0	0	0
Total	17	3	14	*	2	*	*	*	0	*

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

(b) *Alternative Energy Sources* consist of those energy sources that could have been substituted for HGL (excluding natural gasoline) during 2018. The quantities are expressed in thousands of barrels, and therefore represent the quantity of HGL (excluding natural gasoline) that could have been displaced by the given alternative type of energy.

(c) *Total Consumed* represents those quantities (Total Inputs) of HGL (excluding natural gasoline) that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

(d) *Electricity Receipts* represents those quantities of electricity generated off the manufacturing establishment site and available at the site for consumption. It includes those quantities for which payment was made, quantities transferred in, quantities purchased and paid for by a central purchasing entity, and quantities for which payment was made in kind. It does not include electricity generated onsite. *Electricity Receipts* has not been adjusted to account for any quantities that might have been resold or transferred out. The estimates include those quantities that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

(e) *Other* includes all other types of energy not already identified that respondents indicated could have been consumed in place of HGL (excluding natural gasoline).

(f) *Value of Shipments and Receipts* and *Employment Size* categories were supplied by the Bureau of the Census.

\* 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.

Sources: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2018 Manufacturing Energy Consumption Survey*, and the Bureau of the Census, data files for the *2018 Annual Survey of Manufactures*.

*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) and (Approval ID: CBDRB-FY21-312).*

Released: February 2021

Next MECS will be fielded in 2022.

**RSE Table 10.12 Relative Standard Errors for Table 10.12;**

Unit: Percents.

NAICS Code(a)	Subsector and Industry	HGL (excluding natural gasoline)				Alternative Energy Sources(b)					
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)
<b>Total United States</b>											
311	Food	18.4	14.0	22.8	10.4	27.7	1.6	X	X	X	49.6
3112	Grain and Oilseed Milling	15.0	0.0	16.8	0.0	0.0	0.0	X	X	X	X
311221	Wet Corn Milling	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
31131	Sugar Manufacturing	0.0	0.0	0.0	0.0	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	5.8	2.0	7.3	38.8	73.3	0.0	X	X	X	X
3115	Dairy Product	12.9	17.1	19.5	0.0	29.1	0.0	X	X	X	0.3
3116	Animal Slaughtering and Processing	22.0	78.1	22.4	75.1	70.0	75.1	X	X	X	X
312	Beverage and Tobacco Products	11.3	40.9	11.5	43.7	35.0	87.0	X	X	X	X
3121	Beverages	12.9	42.9	13.2	44.0	41.2	87.0	X	X	X	X
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
313	Textile Mills	25.7	50.0	7.5	3.1	50.9	53.9	X	X	X	X
314	Textile Product Mills	29.1	36.6	35.0	X	36.6	0.0	X	X	X	X
315	Apparel	42.3	98.1	37.9	4.5	X	X	X	99.4	X	X
316	Leather and Allied Products	31.1	78.7	31.4	X	85.2	0.0	X	X	X	0.0
321	Wood Products	5.6	19.1	5.8	30.8	35.3	12.3	0.0	27.9	X	81.4
321113	Sawmills	8.6	1.8	9.7	16.8	14.9	0.0	0.0	84.0	X	71.1
3212	Veneer, Plywood, and Engineered Woods	3.1	25.0	3.1	53.3	18.3	72.1	X	0.0	X	96.9
321219	Reconstituted Wood Products	5.9	X	5.9	X	X	X	X	X	X	X
3219	Other Wood Products	14.7	48.5	15.1	43.1	54.5	54.2	X	X	X	97.5
322	Paper	11.1	47.2	11.7	72.4	74.3	0.0	X	X	X	X
322110	Pulp Mills	0.0	X	0.0	X	X	X	X	X	X	X
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
322122	Newsprint Mills	0.0	X	0.0	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X
323	Printing and Related Support	21.4	55.8	22.3	55.8	91.1	X	X	X	X	91.1
324	Petroleum and Coal Products	5.6	2.6	8.3	90.6	0.0	2.8	62.5	X	X	0.0
324110	Petroleum Refineries	0.0	0.0	0.0	X	0.0	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	36.8	25.7	47.2	94.9	0.0	2.8	62.5	X	X	0.0
324122	Asphalt Shingle and Coating Materials	2.6	1.4	2.6	2.6	0.0	X	X	X	X	0.0
324191	Petroleum Lubricating Oil and Grease Products	19.5	X	19.5	X	X	X	X	X	X	X
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	0.0	X	0.0	X	X	X	X
325	Chemicals	13.9	59.7	13.1	37.2	56.9	11.1	97.3	X	X	57.0
325110	Petrochemicals	0.0	0.0	0.0	X	0.0	X	X	X	X	X

325120	Industrial Gases	70.3	65.2	75.7	59.8	65.0	X	X	X	X	X
325180	Other Basic Inorganic Chemicals	9.2	25.1	9.2	38.4	77.3	39.1	X	X	X	X
325193	Ethyl Alcohol	8.6	26.0	8.9	X	26.4	X	X	X	X	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
325199	Other Basic Organic Chemicals	8.3	34.8	8.3	42.3	27.7	31.2	X	X	X	0.0
325211	Plastics Materials and Resins	D	38.2	D	56.2	14.9	24.0	X	X	X	76.8
325212	Synthetic Rubber	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X
325311	Nitrogenous Fertilizers	86.5	X	86.5	X	X	X	X	X	X	X
325312	Phosphatic Fertilizers	0.0	0.0	0.0	X	0.0	X	0.0	X	X	X
3254	Pharmaceuticals and Medicines	25.5	2.3	26.6	46.2	0.0	0.0	0.0	X	X	X
325412	Pharmaceutical Preparation	30.1	0.3	31.6	53.2	0.0	0.0	0.0	X	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	1.5	X	1.5	X	X	X	X	X	X	X
326	Plastics and Rubber Products	17.3	59.5	15.6	69.9	94.5	89.9	89.9	X	X	X
327	Nonmetallic Mineral Products	27.5	52.8	29.3	68.9	62.7	70.3	X	X	X	95.8
327120	Clay Building Material and Refractories	5.5	23.0	5.8	22.9	6.4	68.0	X	X	X	0.0
327211	Flat Glass	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	27.7	0.0	28.5	0.0	X	X	X	X	X	X
327213	Glass Containers	0.0	0.0	0.0	0.0	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	1.9	12.9	1.9	0.0	X	54.5	X	X	X	X
327310	Cements	1.1	11.3	1.2	0.0	X	30.1	X	X	X	X
327410	Lime	0.0	X	0.0	X	X	X	X	X	X	X
327420	Gypsum	1.4	X	1.4	X	X	X	X	X	X	X
327993	Mineral Wool	6.3	0.0	6.5	0.0	0.0	X	X	X	X	0.0
331	Primary Metals	2.2	11.8	2.3	30.7	19.7	12.1	9.7	X	X	0.0
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X
3312	Steel Products from Purchased Steel	15.4	44.7	16.6	52.6	62.0	64.2	X	X	X	X
3313	Alumina and Aluminum	1.0	22.8	1.0	20.6	35.2	28.5	9.7	X	X	X
331314	Secondary Smelting and Alloying of Aluminum	1.1	25.5	1.1	0.3	35.2	35.2	9.7	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	X	0.0	X	X	X	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	2.3	38.1	2.3	67.4	X	43.5	X	X	X	X
3314	Nonferrous Metals, except Aluminum	1.9	37.0	1.7	42.4	46.8	3.7	X	X	X	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	3.1	0.0	3.3	0.0	0.0	0.0	X	X	X	0.0
3315	Foundries	1.8	1.5	2.0	21.4	5.5	0.4	X	X	X	0.0
331511	Iron Foundries	4.5	26.7	4.4	13.2	73.2	X	X	X	X	X
331523	Nonferrous Metal Die-Casting Foundries	1.4	62.0	1.4	73.2	X	67.4	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	2.9	0.0	4.9	0.0	0.0	0.0	X	X	X	0.0
332	Fabricated Metal Products	18.3	48.6	19.2	54.7	58.7	96.9	99.2	X	X	X
333	Machinery	28.0	47.4	28.3	66.3	86.2	X	X	X	X	70.4
334	Computer and Electronic Products	48.0	89.7	30.1	94.9	3.8	98.4	X	X	X	98.4
334413	Semiconductors and Related Devices	13.2	52.1	1.2	0.0	3.8	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	24.5	93.9	25.4	95.4	X	73.3	X	X	X	83.7
336	Transportation Equipment	13.5	48.6	14.1	48.8	56.6	77.5	X	X	X	48.2
336111	Automobiles	0.0	0.0	0.0	0.0	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	X	0.0	X	X	X	X	X	X	X

3364	Aerospace Product and Parts	18.5	33.2	18.5	46.1	56.6	X	X	X	X	48.2
336411	Aircraft	52.7	X	52.7	X	X	X	X	X	X	X
337	Furniture and Related Products	24.6	40.4	25.6	58.2	49.0	93.5	X	X	X	74.9
339	Miscellaneous	45.0	67.8	52.9	99.0	69.8	X	99.0	99.0	X	69.2
	Total	3.9	6.4	4.5	22.4	3.6	17.5	54.5	80.5	X	30.4

**Northeast Census Region**

311	Food	15.0	20.9	19.5	15.2	58.6	3.5	X	X	X	X
3112	Grain and Oilseed Milling	0.0	X	0.0	X	X	X	X	X	X	X
311221	Wet Corn Milling	0.0	X	0.0	X	X	X	X	X	X	X
31131	Sugar Manufacturing	0.0	X	0.0	X	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	14.9	72.7	15.4	0.0	73.3	X	X	X	X	X
3115	Dairy Product	10.2	0.0	37.0	0.0	0.0	0.0	X	X	X	X
3116	Animal Slaughtering and Processing	35.1	93.5	35.5	X	93.5	X	X	X	X	X
312	Beverage and Tobacco Products	29.5	2.3	30.1	2.5	2.3	95.1	X	X	X	X
3121	Beverages	29.7	2.5	30.3	2.5	2.5	95.1	X	X	X	X
3122	Tobacco	0.0	0.0	0.0	X	0.0	X	X	X	X	X
313	Textile Mills	3.7	0.5	5.6	13.4	X	0.0	X	X	X	X
314	Textile Product Mills	54.9	X	54.9	X	X	X	X	X	X	X
315	Apparel	68.3	99.4	69.2	X	X	X	X	99.4	X	X
316	Leather and Allied Products	9.1	X	9.1	X	X	X	X	X	X	X
321	Wood Products	3.1	7.6	3.1	42.2	12.0	0.0	0.0	X	X	X
321113	Sawmills	7.1	2.3	10.3	20.2	12.0	0.0	0.0	X	X	X
3212	Veneer, Plywood, and Engineered Woods	9.3	X	9.3	X	X	X	X	X	X	X
321219	Reconstituted Wood Products	0.0	X	0.0	X	X	X	X	X	X	X
3219	Other Wood Products	29.1	64.7	29.8	64.7	X	X	X	X	X	X
322	Paper	30.1	73.6	30.6	60.0	X	X	X	X	X	X
322110	Pulp Mills	0.0	X	0.0	X	X	X	X	X	X	X
322121	Paper Mills, except Newsprint	0.0	X	0.0	X	X	X	X	X	X	X
322122	Newsprint Mills	X	X	X	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	X	0.0	X	X	X	X	X	X	X
323	Printing and Related Support	61.4	X	61.4	X	X	X	X	X	X	X
324	Petroleum and Coal Products	1.3	1.5	0.8	X	0.0	5.6	5.8	X	X	X
324110	Petroleum Refineries	0.0	0.0	X	X	0.0	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	5.0	5.5	4.2	X	0.0	5.6	5.8	X	X	X
324122	Asphalt Shingle and Coating Materials	0.0	X	0.0	X	X	X	X	X	X	X
324191	Petroleum Lubricating Oil and Grease Products	4.3	X	4.3	X	X	X	X	X	X	X
324199	Other Petroleum and Coal Products	0.0	X	0.0	X	X	X	X	X	X	X
325	Chemicals	18.3	7.5	18.5	51.5	6.1	X	0.0	X	X	0.0
325110	Petrochemicals	0.0	0.0	0.0	X	0.0	X	X	X	X	X
325120	Industrial Gases	85.5	X	85.5	X	X	X	X	X	X	X
325180	Other Basic Inorganic Chemicals	16.7	77.3	17.5	77.3	77.3	X	X	X	X	X
325193	Ethyl Alcohol	0.0	0.0	0.0	X	X	X	X	X	X	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	X	X	X	X	X	X	X	X	X
325199	Other Basic Organic Chemicals	19.5	X	19.5	X	X	X	X	X	X	X

325211	Plastics Materials and Resins	8.1	0.4	8.6	22.5	0.0	X	X	X	X	X
325212	Synthetic Rubber	0.0	X	0.0	X	X	X	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	X	0.0	X	X	X	X	X	X	X
325311	Nitrogenous Fertilizers	0.0	X	0.0	X	X	X	X	X	X	X
325312	Phosphatic Fertilizers	0.0	0.0	0.0	X	0.0	X	0.0	X	X	X
3254	Pharmaceuticals and Medicines	46.2	77.9	46.4	77.9	X	X	X	X	X	X
325412	Pharmaceutical Preparation	50.1	X	50.1	X	X	X	X	X	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	X	0.0	X	X	X	X	X	X	X
326	Plastics and Rubber Products	63.8	98.3	47.7	98.3	X	X	X	X	X	X
327	Nonmetallic Mineral Products	30.3	94.5	31.2	17.1	98.9	0.0	X	X	X	0.0
327120	Clay Building Material and Refractories	8.2	17.3	9.2	17.6	X	0.0	X	X	X	X
327211	Flat Glass	0.0	X	0.0	X	X	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	65.7	X	65.7	X	X	X	X	X	X	X
327213	Glass Containers	0.0	X	0.0	X	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	2.9	X	2.9	X	X	X	X	X	X	X
327310	Cements	0.0	0.0	0.0	0.0	X	X	X	X	X	X
327410	Lime	X	X	X	X	X	X	X	X	X	X
327420	Gypsum	0.0	X	0.0	X	X	X	X	X	X	X
327993	Mineral Wool	0.0	0.0	0.0	X	0.0	X	X	X	X	0.0
331	Primary Metals	5.8	5.0	6.1	29.4	32.4	0.0	X	X	X	X
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	X	X	X	X	X	X
3312	Steel Products from Purchased Steel	38.9	51.0	39.4	67.4	63.3	X	X	X	X	X
3313	Alumina and Aluminum	0.0	X	0.0	X	X	X	X	X	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	X	0.0	X	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	X	0.0	X	X	X	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	0.0	X	0.0	X	X	X	X	X	X	X
3314	Nonferrous Metals, except Aluminum	12.4	36.3	12.7	44.5	24.1	X	X	X	X	X
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	X	0.0	X	X	X	X	X	X	X
3315	Foundries	2.8	3.4	3.1	73.9	X	0.0	X	X	X	X
331511	Iron Foundries	1.2	X	1.2	X	X	X	X	X	X	X
331523	Nonferrous Metal Die-Casting Foundries	1.2	73.9	0.8	73.9	X	X	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	6.6	0.0	9.7	X	X	0.0	X	X	X	X
332	Fabricated Metal Products	60.9	X	60.9	X	X	X	X	X	X	X
333	Machinery	38.8	99.0	38.8	99.0	X	X	X	X	X	X
334	Computer and Electronic Products	51.8	X	51.8	X	X	X	X	X	X	X
334413	Semiconductors and Related Devices	0.0	X	0.0	X	X	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	41.9	X	41.9	X	X	X	X	X	X	X
336	Transportation Equipment	12.4	X	12.4	X	X	X	X	X	X	X
336111	Automobiles	X	X	X	X	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	X	X	X	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	2.3	X	2.3	X	X	X	X	X	X	X
336411	Aircraft	0.0	X	0.0	X	X	X	X	X	X	X
337	Furniture and Related Products	53.4	X	53.4	X	X	X	X	X	X	X
339	Miscellaneous	56.4	99.0	66.9	X	X	X	99.0	X	X	X
	Total	8.7	25.3	9.1	77.3	28.3	1.8	65.4	99.4	X	0.0



**Midwest Census Region**

311	Food	30.7	12.2	31.3	15.9	12.3	0.0	X	X	X	79.7
3112	Grain and Oilseed Milling	22.0	0.0	27.6	0.0	0.0	0.0	X	X	X	X
311221	Wet Corn Milling	0.0	0.0	0.0	X	0.0	X	X	X	X	X
31131	Sugar Manufacturing	0.0	X	0.0	X	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	7.4	0.0	7.4	0.0	X	X	X	X	X	X
3115	Dairy Product	50.2	26.4	52.4	0.0	25.6	0.0	X	X	X	0.3
3116	Animal Slaughtering and Processing	16.6	97.1	16.8	X	97.1	X	X	X	X	X
312	Beverage and Tobacco Products	26.7	X	26.7	X	X	X	X	X	X	X
3121	Beverages	26.7	X	26.7	X	X	X	X	X	X	X
3122	Tobacco	X	X	X	X	X	X	X	X	X	X
313	Textile Mills	33.0	X	33.0	X	X	X	X	X	X	X
314	Textile Product Mills	X	X	X	X	X	X	X	X	X	X
315	Apparel	X	X	X	X	X	X	X	X	X	X
316	Leather and Allied Products	48.1	X	48.1	X	X	X	X	X	X	X
321	Wood Products	18.5	21.3	18.6	17.1	21.9	0.0	X	0.0	X	70.6
321113	Sawmills	20.8	43.5	20.8	70.6	70.6	0.0	X	X	X	70.6
3212	Veneer, Plywood, and Engineered Woods	10.5	0.0	10.5	0.0	0.0	X	X	0.0	X	X
321219	Reconstituted Wood Products	7.2	X	7.2	X	X	X	X	X	X	X
3219	Other Wood Products	25.6	X	25.6	X	X	X	X	X	X	X
322	Paper	21.7	62.7	23.0	68.6	98.9	X	X	X	X	X
322110	Pulp Mills	0.0	X	0.0	X	X	X	X	X	X	X
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	X	X	X	X	X	X
322122	Newsprint Mills	X	X	X	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	X	X	X	X	X	X
323	Printing and Related Support	35.9	71.1	38.2	71.1	X	X	X	X	X	X
324	Petroleum and Coal Products	1.2	2.5	0.2	92.0	0.0	0.0	X	X	X	0.0
324110	Petroleum Refineries	0.0	0.0	0.0	X	0.0	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	30.3	28.9	54.1	94.9	X	0.0	X	X	X	0.0
324122	Asphalt Shingle and Coating Materials	1.8	3.5	1.8	3.5	0.0	X	X	X	X	0.0
324191	Petroleum Lubricating Oil and Grease Products	9.3	X	9.3	X	X	X	X	X	X	X
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	X	X	0.0	X	X	X	X
325	Chemicals	D	85.2	D	56.9	12.2	12.5	98.1	X	X	X
325110	Petrochemicals	0.0	X	0.0	X	X	X	X	X	X	X
325120	Industrial Gases	25.8	65.0	27.4	65.0	65.0	X	X	X	X	X
325180	Other Basic Inorganic Chemicals	4.6	0.0	4.7	0.0	X	X	X	X	X	X
325193	Ethyl Alcohol	14.6	26.4	17.7	X	26.4	X	X	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0	X	0.0	X	X	X	X	X
325199	Other Basic Organic Chemicals	10.6	22.7	10.9	22.7	69.0	69.0	X	X	X	X
325211	Plastics Materials and Resins	8.1	58.2	8.1	58.2	93.1	12.6	X	X	X	X
325212	Synthetic Rubber	0.0	X	0.0	X	X	X	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	X	0.0	X	X	X	X	X	X	X
325311	Nitrogenous Fertilizers	39.4	X	39.4	X	X	X	X	X	X	X
325312	Phosphatic Fertilizers	0.0	0.0	0.0	X	0.0	X	X	X	X	X

3254	Pharmaceuticals and Medicines	37.8	0.0	37.8	0.0	X	X	X	X	X	X
325412	Pharmaceutical Preparation	40.1	X	40.1	X	X	X	X	X	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	X	0.0	X	X	X	X	X	X	X
326	Plastics and Rubber Products	25.8	59.9	27.7	59.9	X	X	X	X	X	X
327	Nonmetallic Mineral Products	33.0	4.9	33.5	0.0	6.9	3.8	X	X	X	0.0
327120	Clay Building Material and Refractories	13.8	3.4	15.9	0.0	6.9	0.0	X	X	X	0.0
327211	Flat Glass	0.0	X	0.0	X	X	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	8.6	X	8.6	X	X	X	X	X	X	X
327213	Glass Containers	0.0	X	0.0	X	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	8.5	43.6	8.7	0.0	X	49.8	X	X	X	X
327310	Cements	0.0	X	0.0	X	X	X	X	X	X	X
327410	Lime	0.0	X	0.0	X	X	X	X	X	X	X
327420	Gypsum	1.5	X	1.5	X	X	X	X	X	X	X
327993	Mineral Wool	3.2	X	3.2	X	X	X	X	X	X	X
331	Primary Metals	2.1	18.1	2.0	48.3	5.2	55.9	X	X	X	0.0
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X
3312	Steel Products from Purchased Steel	17.8	46.6	20.1	54.2	X	73.8	X	X	X	X
3313	Alumina and Aluminum	3.8	0.0	3.8	0.0	X	X	X	X	X	X
331314	Secondary Smelting and Alloying of Aluminum	6.8	0.0	7.0	0.0	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	X	0.0	X	X	X	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	4.6	X	4.6	X	X	X	X	X	X	X
3314	Nonferrous Metals, except Aluminum	0.6	5.6	0.6	4.4	7.1	3.7	X	X	X	X
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X
3315	Foundries	2.2	1.5	2.4	9.2	6.0	67.4	X	X	X	0.0
331511	Iron Foundries	5.6	36.6	5.6	36.6	53.0	X	X	X	X	X
331523	Nonferrous Metal Die-Casting Foundries	2.5	46.9	2.5	62.6	X	67.4	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	0.8	0.0	1.8	0.0	0.0	X	X	X	X	0.0
332	Fabricated Metal Products	21.5	49.2	23.6	55.4	58.7	96.9	99.2	X	X	X
333	Machinery	41.3	93.2	41.7	99.0	86.2	X	X	X	X	X
334	Computer and Electronic Products	87.3	90.8	70.0	95.1	65.3	98.4	X	X	X	98.4
334413	Semiconductors and Related Devices	53.0	65.3	0.0	X	65.3	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	33.4	95.4	35.4	95.4	X	X	X	X	X	83.7
336	Transportation Equipment	D	72.4	D	72.8	80.5	99.0	X	X	X	X
336111	Automobiles	0.0	0.0	0.0	0.0	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	X	0.0	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	47.6	80.5	47.6	X	80.5	X	X	X	X	X
336411	Aircraft	81.1	X	81.1	X	X	X	X	X	X	X
337	Furniture and Related Products	31.9	58.6	34.4	73.8	74.9	93.5	X	X	X	74.9
339	Miscellaneous	72.8	98.1	45.8	99.0	X	X	X	99.0	X	X
	Total	7.0	12.0	7.9	26.4	2.4	17.5	90.7	98.8	X	4.3

**South Census Region**

311	Food	17.7	7.3	21.7	14.7	0.1	65.8	X	X	X	X
3112	Grain and Oilseed Milling	35.1	0.0	41.3	0.0	X	0.0	X	X	X	X
311221	Wet Corn Milling	0.0	X	0.0	X	X	X	X	X	X	X

31131	Sugar Manufacturing	0.0	0.0	0.0	0.0	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	17.6	0.0	17.6	0.0	X	X	X	X	X	X
3115	Dairy Product	0.4	0.0	21.3	X	0.0	X	X	X	X	X
3116	Animal Slaughtering and Processing	28.7	86.4	29.4	75.1	92.2	75.1	X	X	X	X
312	Beverage and Tobacco Products	10.0	62.1	10.1	65.4	73.7	X	X	X	X	X
3121	Beverages	17.1	65.9	17.9	65.9	97.2	X	X	X	X	X
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
313	Textile Mills	50.3	71.6	20.4	3.1	50.9	79.1	X	X	X	X
314	Textile Product Mills	34.0	36.6	42.9	X	36.6	0.0	X	X	X	X
315	Apparel	45.1	0.0	45.4	0.0	X	X	X	X	X	X
316	Leather and Allied Products	45.9	X	45.9	X	X	X	X	X	X	X
321	Wood Products	15.5	52.1	15.6	47.7	84.0	58.3	X	84.0	X	83.9
321113	Sawmills	19.3	49.3	19.4	33.0	84.0	0.0	X	84.0	X	83.9
3212	Veneer, Plywood, and Engineered Woods	3.3	59.7	3.0	54.5	X	91.2	X	X	X	X
321219	Reconstituted Wood Products	9.3	X	9.3	X	X	X	X	X	X	X
3219	Other Wood Products	27.8	54.2	27.9	54.2	X	54.2	X	X	X	X
322	Paper	14.2	77.9	14.3	X	77.9	X	X	X	X	X
322110	Pulp Mills	0.0	X	0.0	X	X	X	X	X	X	X
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	X	0.0	X	X	X	X	X
322122	Newsprint Mills	0.0	X	0.0	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	X	0.0	X	X	X	X	X	X	X
323	Printing and Related Support	28.0	99.0	28.1	99.0	X	X	X	X	X	X
324	Petroleum and Coal Products	9.1	23.6	9.6	0.0	0.0	5.5	80.1	X	X	0.0
324110	Petroleum Refineries	0.0	0.0	0.0	X	0.0	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	34.5	40.8	56.2	X	X	5.5	80.1	X	X	X
324122	Asphalt Shingle and Coating Materials	7.7	0.0	8.0	0.0	0.0	X	X	X	X	0.0
324191	Petroleum Lubricating Oil and Grease Products	22.3	X	22.3	X	X	X	X	X	X	X
324199	Other Petroleum and Coal Products	0.0	X	0.0	X	X	X	X	X	X	X
325	Chemicals	D	44.8	D	50.7	68.8	15.1	0.0	X	X	76.8
325110	Petrochemicals	0.0	X	0.0	X	X	X	X	X	X	X
325120	Industrial Gases	66.4	72.5	2.9	72.5	X	X	X	X	X	X
325180	Other Basic Inorganic Chemicals	10.6	0.0	10.6	X	X	0.0	X	X	X	X
325193	Ethyl Alcohol	0.0	X	0.0	X	X	X	X	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0	0.0	X	X	X	X	X	X
325199	Other Basic Organic Chemicals	10.2	17.5	10.2	X	17.5	X	X	X	X	X
325211	Plastics Materials and Resins	D	45.9	D	95.3	76.8	53.0	X	X	X	76.8
325212	Synthetic Rubber	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X
325311	Nitrogenous Fertilizers	52.1	X	52.1	X	X	X	X	X	X	X
325312	Phosphatic Fertilizers	0.0	X	0.0	X	X	X	X	X	X	X
3254	Pharmaceuticals and Medicines	1.4	0.0	1.8	X	0.0	0.0	0.0	X	X	X
325412	Pharmaceutical Preparation	2.0	0.0	3.4	X	0.0	0.0	0.0	X	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	1.6	X	1.6	X	X	X	X	X	X	X
326	Plastics and Rubber Products	22.7	68.1	23.2	86.5	94.5	89.9	89.9	X	X	X
327	Nonmetallic Mineral Products	28.6	26.3	29.1	22.6	90.5	81.2	X	X	X	X

327120	Clay Building Material and Refractories	7.2	89.4	7.0	89.4	X	89.4	X	X	X	X
327211	Flat Glass	0.0	0.0	0.0	0.0	X	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	33.2	0.0	35.6	0.0	X	X	X	X	X	X
327213	Glass Containers	0.0	0.0	0.0	0.0	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	1.7	14.6	1.7	0.0	X	63.0	X	X	X	X
327310	Cements	0.0	X	0.0	X	X	X	X	X	X	X
327410	Lime	0.0	X	0.0	X	X	X	X	X	X	X
327420	Gypsum	2.2	X	2.2	X	X	X	X	X	X	X
327993	Mineral Wool	12.5	X	12.5	X	X	X	X	X	X	X
331	Primary Metals	6.8	24.2	7.1	49.8	28.8	19.0	9.7	X	X	0.0
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X
3312	Steel Products from Purchased Steel	42.7	X	42.7	X	X	X	X	X	X	X
3313	Alumina and Aluminum	0.9	26.3	0.9	56.7	35.2	28.5	9.7	X	X	X
331314	Secondary Smelting and Alloying of Aluminum	1.0	34.5	1.0	4.0	35.2	35.2	9.7	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	X	0.0	X	X	X	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	2.7	38.1	2.7	67.4	X	43.5	X	X	X	X
3314	Nonferrous Metals, except Aluminum	9.0	47.0	3.9	53.2	50.7	X	X	X	X	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	0.0	0.0	0.0	X	X	X	X	0.0
3315	Foundries	4.2	81.7	4.1	X	81.7	X	X	X	X	X
331511	Iron Foundries	7.6	81.7	7.3	X	81.7	X	X	X	X	X
331523	Nonferrous Metal Die-Casting Foundries	1.9	X	1.9	X	X	X	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	20.9	X	20.9	X	X	X	X	X	X	X
332	Fabricated Metal Products	31.0	X	31.0	X	X	X	X	X	X	X
333	Machinery	41.2	61.7	43.3	96.5	X	X	X	X	X	70.4
334	Computer and Electronic Products	40.2	0.0	41.8	X	0.0	X	X	X	X	X
334413	Semiconductors and Related Devices	0.0	0.0	0.0	X	0.0	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	28.3	73.3	28.4	X	X	73.3	X	X	X	X
336	Transportation Equipment	D	66.4	D	66.5	58.5	80.8	X	X	X	48.2
336111	Automobiles	0.0	X	0.0	X	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	X	0.0	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	15.8	40.4	16.1	81.1	58.5	X	X	X	X	48.2
336411	Aircraft	26.1	X	26.1	X	X	X	X	X	X	X
337	Furniture and Related Products	24.7	53.7	26.5	93.6	63.2	X	X	X	X	X
339	Miscellaneous	67.6	60.5	68.1	X	69.8	X	X	X	X	77.9
	Total	6.1	17.4	6.5	30.0	14.3	48.6	76.9	84.0	X	56.9

**West Census Region**

311	Food	44.8	29.6	57.3	15.3	85.7	0.0	X	X	X	0.0
3112	Grain and Oilseed Milling	43.1	0.0	46.1	0.0	0.0	X	X	X	X	X
311221	Wet Corn Milling	0.0	0.0	0.0	0.0	X	X	X	X	X	X
31131	Sugar Manufacturing	0.0	0.0	0.0	0.0	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	7.4	1.5	14.2	39.7	X	0.0	X	X	X	X
3115	Dairy Product	27.1	50.7	2.0	0.0	87.3	0.0	X	X	X	X
3116	Animal Slaughtering and Processing	59.3	X	59.3	X	X	X	X	X	X	X
312	Beverage and Tobacco Products	20.7	51.2	20.9	55.9	97.4	97.4	X	X	X	X

3121	Beverages	20.7	51.2	20.9	55.9	97.4	97.4	X	X	X	X
3122	Tobacco	X	X	X	X	X	X	X	X	X	X
313	Textile Mills	73.6	X	73.6	X	X	X	X	X	X	X
314	Textile Product Mills	92.2	X	92.2	X	X	X	X	X	X	X
315	Apparel	32.2	32.2	X	32.2	X	X	X	X	X	X
316	Leather and Allied Products	33.4	78.7	3.6	X	85.2	0.0	X	X	X	0.0
321	Wood Products	10.8	29.2	11.6	54.6	36.1	79.4	0.0	X	X	85.3
321113	Sawmills	18.5	1.0	20.7	41.8	0.0	0.0	0.0	X	X	X
3212	Veneer, Plywood, and Engineered Woods	6.1	26.4	6.5	X	18.5	95.7	X	X	X	96.9
321219	Reconstituted Wood Products	7.7	X	7.7	X	X	X	X	X	X	X
3219	Other Wood Products	25.2	53.9	27.9	55.7	54.5	X	X	X	X	97.5
322	Paper	26.4	93.9	23.4	97.8	0.0	0.0	X	X	X	X
322110	Pulp Mills	X	X	X	X	X	X	X	X	X	X
322121	Paper Mills, except Newsprint	0.0	X	0.0	X	X	X	X	X	X	X
322122	Newsprint Mills	0.0	X	0.0	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X
323	Printing and Related Support	44.5	80.4	50.3	80.4	91.1	X	X	X	X	91.1
324	Petroleum and Coal Products	10.0	0.0	14.2	0.0	0.0	0.0	X	X	X	0.0
324110	Petroleum Refineries	0.0	0.0	0.0	X	0.0	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	56.5	0.0	56.5	X	X	0.0	X	X	X	0.0
324122	Asphalt Shingle and Coating Materials	1.5	X	1.5	X	X	X	X	X	X	X
324191	Petroleum Lubricating Oil and Grease Products	0.0	X	0.0	X	X	X	X	X	X	X
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	0.0	X	0.0	X	X	X	X
325	Chemicals	51.7	27.9	51.9	46.8	X	46.5	0.0	X	X	0.0
325110	Petrochemicals	X	X	X	X	X	X	X	X	X	X
325120	Industrial Gases	95.1	X	95.1	X	X	X	X	X	X	X
325180	Other Basic Inorganic Chemicals	12.3	60.1	11.4	X	X	60.1	X	X	X	X
325193	Ethyl Alcohol	0.0	X	0.0	X	X	X	X	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	X	0.0	X	X	X	X	X	X	X
325199	Other Basic Organic Chemicals	14.2	68.0	15.3	68.0	X	0.0	X	X	X	0.0
325211	Plastics Materials and Resins	4.7	X	4.7	X	X	X	X	X	X	X
325212	Synthetic Rubber	0.0	X	0.0	X	X	X	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	X	0.0	X	X	X	X	X	X	X
325311	Nitrogenous Fertilizers	88.6	X	88.6	X	X	X	X	X	X	X
325312	Phosphatic Fertilizers	0.0	0.0	0.0	X	X	X	0.0	X	X	X
3254	Pharmaceuticals and Medicines	41.8	10.7	42.0	1.3	X	X	X	X	X	X
325412	Pharmaceutical Preparation	46.1	53.2	46.2	53.2	X	X	X	X	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	X	0.0	X	X	X	X	X	X	X
326	Plastics and Rubber Products	40.8	X	40.8	X	X	X	X	X	X	X
327	Nonmetallic Mineral Products	65.5	74.6	71.3	84.6	85.6	96.2	X	X	X	99.0
327120	Clay Building Material and Refractories	3.9	0.0	4.1	0.0	0.0	0.0	X	X	X	X
327211	Flat Glass	0.0	0.0	0.0	X	0.0	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	12.0	X	12.0	X	X	X	X	X	X	X
327213	Glass Containers	0.0	X	0.0	X	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	3.7	0.0	3.8	0.0	X	X	X	X	X	X

327310	Cements	23.8	30.1	25.0	X	X	30.1	X	X	X	X
327410	Lime	0.0	X	0.0	X	X	X	X	X	X	X
327420	Gypsum	0.1	X	0.1	X	X	X	X	X	X	X
327993	Mineral Wool	4.1	0.0	5.7	0.0	X	X	X	X	X	X
331	Primary Metals	3.6	4.1	3.7	0.7	4.1	0.0	X	X	X	X
331110	Iron and Steel Mills and Ferroalloys	0.0	X	0.0	X	X	X	X	X	X	X
3312	Steel Products from Purchased Steel	1.5	0.0	1.5	0.0	0.0	0.0	X	X	X	X
3313	Alumina and Aluminum	3.6	X	3.6	X	X	X	X	X	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	X	0.0	X	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	X	0.0	X	X	X	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	5.6	X	5.6	X	X	X	X	X	X	X
3314	Nonferrous Metals, except Aluminum	4.6	0.0	4.8	0.0	X	X	X	X	X	X
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	23.5	X	23.5	X	X	X	X	X	X	X
3315	Foundries	11.8	8.8	12.1	1.5	4.1	0.0	X	X	X	X
331511	Iron Foundries	49.5	0.0	50.6	0.0	X	X	X	X	X	X
331523	Nonferrous Metal Die-Casting Foundries	9.8	X	9.8	X	X	X	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	0.4	X	0.4	X	X	X	X	X	X	X
332	Fabricated Metal Products	43.2	87.9	43.5	87.9	X	X	X	X	X	X
333	Machinery	50.8	84.9	54.4	73.7	X	X	X	X	X	X
334	Computer and Electronic Products	68.8	0.0	69.2	0.0	X	X	X	X	X	X
334413	Semiconductors and Related Devices	5.3	0.0	5.5	0.0	X	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	80.5	X	80.5	X	X	X	X	X	X	X
336	Transportation Equipment	37.6	0.8	40.5	0.8	X	X	X	X	X	X
336111	Automobiles	0.0	0.0	0.0	0.0	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	X	0.0	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	6.9	55.8	6.9	55.8	X	X	X	X	X	X
336411	Aircraft	12.1	X	12.1	X	X	X	X	X	X	X
337	Furniture and Related Products	52.5	X	52.5	X	X	X	X	X	X	X
339	Miscellaneous	48.6	99.0	49.4	X	X	X	X	X	X	99.0
	<b>Total</b>	<b>9.8</b>	<b>5.0</b>	<b>12.6</b>	<b>34.1</b>	<b>5.2</b>	<b>2.1</b>	<b>0.0</b>	<b>X</b>	<b>X</b>	<b>80.3</b>

#### Economic Characteristic (f)

#### Value of Shipments and Receipts (million dollars)

Under 20	9.2	17.7	10.0	31.5	39.3	3.2	61.1	80.6	X	X
20-49	17.1	31.9	19.3	62.9	63.6	52.6	99.0	X	X	X
50-99	12.4	43.4	9.6	30.9	45.6	14.0	90.1	X	X	X
100-249	7.6	16.6	8.0	33.9	17.8	8.9	0.7	0.0	X	X
250-499	9.8	30.1	10.3	38.1	9.3	21.7	X	X	X	X
500 and Over	2.6	2.4	3.6	43.3	0.1	0.2	X	X	X	X
<b>Total</b>	<b>3.9</b>	<b>6.4</b>	<b>4.5</b>	<b>22.4</b>	<b>3.6</b>	<b>17.5</b>	<b>54.5</b>	<b>80.5</b>	<b>X</b>	<b>X</b>

Employment Size											
Under 50	10.4	27.3	11.1	60.2	53.4	3.3	61.1	99.1	X	5.8	
50-99	17.4	17.0	20.2	29.9	24.0	4.6	9.7	99.0	X	83.8	
100-249	8.1	32.1	7.3	33.3	32.1	48.4	80.0	X	X	79.7	
250-499	6.1	1.6	8.4	39.0	1.0	84.4	91.7	0.0	X	86.8	
500-999	3.5	12.5	3.3	37.5	1.3	1.1	X	X	X	74.4	
1000 and Over	5.4	4.4	8.1	65.5	0.2	0.1	X	X	X	X	
Total	3.9	6.4	4.5	22.4	3.6	17.5	54.5	80.5	X	30.4	

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

(b) *Alternative Energy Sources* consist of those energy sources that could have been substituted for HGL (excluding natural gasoline) during 2018. The quantities are expressed in thousands of barrels, and therefore represent the quantity of HGL (excluding natural gasoline) that could have been displaced by the given alternative type of energy.

(c) *Total Consumed* represents those quantities (Total Inputs) of HGL (excluding natural gasoline) that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

(d) *Electricity Receipts* represents those quantities of electricity generated off the manufacturing establishment site and available at the site for consumption. It includes those quantities for which payment was made, quantities transferred in, quantities purchased and paid for by a central purchasing entity, and quantities for which payment was made in kind. It does not include electricity generated onsite. *Electricity Receipts* has not been adjusted to account for any quantities that might have been resold or transferred out. The estimates include those quantities that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

(e) *Other* includes all other types of energy not already identified that respondents indicated could have been consumed in place of HGL (excluding natural gasoline).

(f) *Value of Shipments and Receipts* and *Employment Size* categories were supplied by the Bureau of the Census.

\* 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.

Sources: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2018 Manufacturing Energy Consumption Survey*, and the Bureau of the Census, data files for the *2018 Annual Survey of Manufactures*.

*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) and (Approval ID: CBDRB-FY21-312).*