Released: August 2025

Next MECS will be fielded in 2027

## Table 10.4 Capability to switch residual fuel oil to alternative energy sources, 2022

Level: National and regional data

Row: NAICS codes Column: Energy sources Unit: Thousand barrels

		R	esidual fuel oil				Alterna	tive ener	gy sources <sup>b</sup>	Coal coke	
NAICS code <sup>a</sup>	Subsector and industry	Total consumed <sup>c</sup>	Switchable	Not switchable	<u>.</u>	Natural gas	Distillate fuel oil	Coal	HGL (excluding natural gasoline)	Coal coke and breeze	Other <sup>e</sup>
		Total United Sta	ates								
311	Food	*	*	*	*	*	0	0	*	0	0
3112	Grain and Oilseed Milling	*	*	0	*	*	0	0	*	0	0
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	*	0	*	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	0	*	0	0	0	0	0	0	0
3115	Dairy Product Manufacturing	*	*	*	0	*	0	0	0	0	0
3116	Animal Slaughtering and Processing	*	0	*	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0	0	0	0	0
3121	Beverages	0	0	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	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	0	0
321	Wood Products	*	0	*	0	0	0	0	0	0	0
321113	Sawmills	*	0	*	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	*	0	*	0	0	0	0	0	0	0
321219	Reconstituted Wood Products	*	0	*	0	0	0	0	0	0	0
3219	Other Wood Products	0	0	0	0	0	0	0	0	0	0
322	Paper	1	*	1	*	*	0	0	0	0	*
322110	Pulp Mills	*	0	*	0	0	0	0	0	0	0
322120	Paper Mills	*	*	*	*	*	0	0	0	0	*
322130	Paperboard Mills	*	*	*	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
324121	Asphalt Paving Mixture and Block	*	*	*	0	*	*	0	*	0	0
324122	Asphalt Shingle and Coating Materials	0	0	0	0	0	0	0	0	0	0
324191	Petroleum Lubricating Oil and Grease Manufacturing	0	0	0	0	0	0	0	0	0	0
324199	All Other Petroleum and Coal Products Manufacturing	0	0	0	0	0	0	0	0	0	0
325	Chemicals	*	*	0	0	*	*	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	0	0
325180	Other Basic Inorganic Chemical Manufacturing	0	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0	0

336 Trans 336110 Aut 3364 Aero 336411 Airo 337 Furni	puter and Electronic Products miconductors and Related Devices rical Equip., Appliances, and Components sportation Equipment tomobile and Light Duty Motor Vehicle Manufacturing ospace Product and Parts craft iture and Related Products ellaneous	*     *     0     *     0     0     0     0     0     0     2  Northeast Census Regi	0 0 0 0 0 0	*	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0
336 Trans 336110 Aut 3364 Aero 336411 Airo 337 Furni 339 Misco	niconductors and Related Devices rical Equip., Appliances, and Components sportation Equipment tomobile and Light Duty Motor Vehicle Manufacturing ospace Product and Parts craft iture and Related Products ellaneous	* 0 0 0 0 0 0	0 0 0 0 0 0	* 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0
336 Trans 336110 Aut 3364 Aero 336411 Airo 337 Furni	niconductors and Related Devices rical Equip., Appliances, and Components sportation Equipment tomobile and Light Duty Motor Vehicle Manufacturing pspace Product and Parts craft iture and Related Products	* 0 0 0 0 0	0 0 0 0 0	* 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0	0 0 0 0 0 0
336 Trans 336110 Aut 3364 Aero 336411 Airo	niconductors and Related Devices rical Equip., Appliances, and Components sportation Equipment tomobile and Light Duty Motor Vehicle Manufacturing ospace Product and Parts craft	* 0 * 0 0 0	0 0 0 0	* 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
336 Trans 336110 Aut 3364 Aero	niconductors and Related Devices rical Equip., Appliances, and Components sportation Equipment tomobile and Light Duty Motor Vehicle Manufacturing ospace Product and Parts	* 0 0 0	0 0 0 0	* 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
336 Trans 336110 Aut	miconductors and Related Devices rical Equip., Appliances, and Components sportation Equipment tomobile and Light Duty Motor Vehicle Manufacturing	*	0 0 0	* 0	0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0
336 Trans	riconductors and Related Devices rical Equip., Appliances, and Components sportation Equipment	*	0 0	*	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
	niconductors and Related Devices rrical Equip., Appliances, and Components	*	0	* * 0 *	0 0	0 0	0	0	0	0 0	0
225 51 .	miconductors and Related Devices	*	0	*	0	0	0	0	0	0	0
334413 Sen	'			*							
		Ψ	•		•	_			•		
	hinery	0	0	0	0	0	0	0	0	0	0
	icated Metal Products		0		0	0	0	0	0	0	0
	minum Foundries, except Die-Casting	0 *	0	0	0	0	0	0	0	0	0
	nferrous Metal Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0
	n Foundries	0	0	0	0	0	0	0	0	0	0
	ndries	0	0	0	0	0	0	0	0	0	0
	nferrous Metal (except Aluminum) Smelting and Refining	0	0	0	0	0	0	0	0	0	0
	ferrous Metal (except Aluminum) Production and Processing	0	0	0	0	0	0	0	0	0	0
	ner Aluminum Rolling, Drawing and Extruding	0	0	<u>0</u>	0	0	0	0	0	0	0
	minum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0
	condary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0	0
	nina and Aluminum Production and Processing	0	0	0	0	0	0	0	0	0	0
	el Products from Purchased Steel	0	0	0	0	0	0	0	0	0	0
	n and Steel Mills and Ferroalloys	*	0	*	0	0	0	0	0	0	0
	ary Metals	*	0	*	0	0	0	0	0	0	0
	neral Wool	0	0	0	0	0	0	0	0	0	0
	osum	*	0	*	0	0	0	0	0	0	0
327410 Lim		0	0	0	0	0	0	0	0	0	0
	ments	0	0	0	0	0	0	0	0	0	0
	iss Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0
	iss Containers	0	0	0	0	0	0	0	0	0	0
	ner Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0	0
	t Glass	0	0	0	0	0	0	0	0	0	0
	y Building Material and Refractories	0	0	0	0	0	0	0	0	0	0
	metallic Mineral Products	*	0	*	0	0	0	0	0	0	0
	ics and Rubber Products	*	*	*	0	*	0	0	0	0	0
325992 Pho	otographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0	0	0	0	0	0	0	0	0	0
325412 Pha	armaceutical Preparation	0	0	0	0	0	0	0	0	0	0
3254 Phar	rmaceuticals and Medicines	0	0	0	0	0	0	0	0	0	0
325312 Pho	osphatic Fertilizers	*	*	0	0	*	0	0	0	0	*
325311 Niti	rogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325220 Arti	ificial and Synthetic Fibers and Filaments	0	0	0	0	0	0	0	0	0	0
325212 Syn	nthetic Rubber	0	0	0	0	0	0	0	0	0	0
325211 Plas	stics Materials and Resins	0	0	0	0	0	0	0	0	0	0
325199 All	Other Basic Organic Chemical Manufacturing	*	*	0	0	*	*	0	0	0	0

Food

3112	Grain and Oilseed Milling	0	0	0	0	0	0	0	0	0	0
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	0	0	0	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	0	*	0	0	0	0	0	0	0
3115	Dairy Product Manufacturing	*	*	0	0	*	0	0	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0	0	0	0	0
3121	Beverages	0	0	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	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	0	0
321	Wood Products	*	0	*	0	0	0	0	0	0	0
321113	Sawmills	*	0	*	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	*	0	*	0	0	0	0	0	0	0
321219	Reconstituted Wood Products	*	0	*	0	0	0	0	0	0	0
3219	Other Wood Products	0	0	0	0	0	0	0	0	0	0
322	Paper	*	*	*	*	*	0	0	0	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0	0	0
322120	Paper Mills	*	*	*	*	*	0	0	0	0	*
322130	Paperboard Mills	0	0	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	0	0	0	0
324110	Petroleum Refineries	*	0	*	0	0	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	*	0	*	0	0	0	0	0	0	0
324122	Asphalt Shingle and Coating Materials	0	0	0	0	0	0	0	0	0	0
324191	Petroleum Lubricating Oil and Grease Manufacturing	0	0	0	0	0	0	0	0	0	0
324199	All Other Petroleum and Coal Products Manufacturing	0	0	0	0	0	0	0	0	0	0
325	Chemicals	*	*	0	0	*	*	0	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	0	0
325180	Other Basic Inorganic Chemical Manufacturing	0	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	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	0	0
325199	All Other Basic Organic Chemical Manufacturing	*	*	0	0	*	*	0	0	0	0
325211	Plastics Materials and Resins	0	0	0	0	0	0	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0	0	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	*	*	0	0	*	0	0	0	0	0
327	Nonmetallic Mineral Products	*	0	*	0	0	0	0	0	0	0
327120	Clay Building Material and Refractories	0	0	0	0	0	0	0	0	0	0
327211	Flat Glass	0	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0	0

327213	Glass Containers	0	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0
327310	Cements	0	0	0	0	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	0	0	0	0	0
331	Primary Metals	0	0	0	0	0	0	0	0	0	0
331110	Iron and Steel Mills and Ferroalloys	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum Production and Processing	0	0	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	0	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metal (except Aluminum) Production and Processing	0	0	0	0	0	0	0	0	0	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0	0	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	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	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	0	0
336	Transportation Equipment	0	0	0	0	0	0	0	0	0	0
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0	0	0
333	Total	1	*	*	*	*	*	0	0	0	*
	1000										
		Midwest Census Regio	on								
311	Food	*	*	*	0	*	0	0	0	0	0
3112	Grain and Oilseed Milling	*	*	0	0	*	0	0	0	0	0
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	*	0	*	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0	0	0	0
3115	Dairy Product Manufacturing	*	0	*	0	0	0	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	0	0	0	0	0	0
3121	Beverages	0	0	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	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	0	0
321	Wood Products	0	0	0	0	0	0	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0	0	0
			<del>-</del>	<del>-</del>							

3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0	0	0	0	0	0	0	0	0	0
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0	0	0
3219	Other Wood Products	0	0	0	0	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	0	0
322120	Paper Mills	*	0	*	0	0	0	0	0	0	0
322130	Paperboard Mills	*	*	0	0	*	0	0	0	0	0
323	Printing and Related Support	0	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	*	*	0	0	*	0	0	0	0	0
324110	Petroleum Refineries	0	0	0	0	0	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	*	*	0	0	*	0	0	0	0	0
324122	Asphalt Shingle and Coating Materials	0	0	0	0	0	0	0	0	0	0
324191	Petroleum Lubricating Oil and Grease Manufacturing	0	0	0	0	0	0	0	0	0	0
324199	All Other Petroleum and Coal Products Manufacturing	0	0	0	0	0	0	0	0	0	0
325	Chemicals	*	*	0	0	*	0	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	0	0
325180	Other Basic Inorganic Chemical Manufacturing	0	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	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	0	0
325199	All Other Basic Organic Chemical Manufacturing	0	0	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	0	0	0	0	0	0	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	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	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0	0	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	0	0	0	0	0	0	0
327120	Clay Building Material and Refractories	0	0	0	0	0	0	0	0	0	0
327211	Flat Glass	0	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0
327310	Cements	0	0	0	0	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	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0
331	Primary Metals	*	0	*	0	0	0	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	0	0	0	0	0	0
3313	Alumina and Aluminum Production and Processing	0	0	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	0	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metal (except Aluminum) Production and Processing	0	0	0	0	0	0	0	0	0	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0	0	0	0	0	0	0	0	0	0

3315	Foundries	0	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	0	0	0	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	0	0	0	0	0	0	0	0	0	0
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0	0	0
	Total	*	*	*	0	*	0	0	0	0	*
		South Census Region									
311	Food	*	*	0	0	*	0	0	0	0	0
3112	Grain and Oilseed Milling	*	*	0	0	*	0	0	0	0	0
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	0	0	0	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0	0	0	0
3115	Dairy Product Manufacturing	0	0	0	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0	0	0	0	0
3121	Beverages	0	0	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	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	0	0
321	Wood Products	0	0	0	0	0	0	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0	0	0	0	0	0	0	0	0	0
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0	0	0
3219	Other Wood Products	0	0	0	0	0	0	0	0	0	0
322	Paper	1	*	*	0	*	0	0	0	0	*
322110	Pulp Mills	*	0	*	0	0	0	0	0	0	0
322120	Paper Mills	*	0	*	0	0	0	0	0	0	0
322130	Paperboard Mills	*	*	*	0	*	0	0	0	0	*
323	Printing and Related Support	0	0	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	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	0	0
324191	Petroleum Lubricating Oil and Grease Manufacturing	0	0	0	0	0	0	0	0	0	0
324199	All Other Petroleum and Coal Products Manufacturing	0	0	0	0	0	0	0	0	0	0
325	Chemicals	0	0	0	0	0	0	0	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	0	0
325180	Other Basic Inorganic Chemical Manufacturing	0	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	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	0	0
325199	All Other Basic Organic Chemical Manufacturing	0	0	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	0	0	0	0	0	0	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0	0	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	0	0	0	0	0	0	0	0	0	0
327120	Clay Building Material and Refractories	0	0	0	0	0	0	0	0	0	0
327211	Flat Glass	0	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0
327310	Cements	0	0	0	0	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	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0
331	Primary Metals	*	0	*	0	0	0	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	0	0	0	0	0	0
3313	Alumina and Aluminum Production and Processing	0	0	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	0	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metal (except Aluminum) Production and Processing	0	0	0	0	0	0	0	0	0	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0	0	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	0	0	0	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	*	0	*	0	0	0	0	0	0	0
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0	0	0

	Total	1	*	1	0	*	*	0	*	0	*
		West Census Region									
311	Food	*	*	0	*	0	0	0	*	0	0
3112	Grain and Oilseed Milling	*	*	0	*	0	0	0	*	0	0
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	0	0	0	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0	0	0	0
3115	Dairy Product Manufacturing	0	0	0	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0	0	0	0	0
3121	Beverages	0	0	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	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	0	0
321	Wood Products	0	0	0	0	0	0	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0	0	0	0	0	0	0	0	0	0
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0	0	0
3219	Other Wood Products	0	0	0	0	0	0	0	0	0	0
322	Paper	*	*	*	0	*	0	0	0	0	0
322110	Pulp Mills	*	0	*	0	0	0	0	0	0	0
322120	Paper Mills	0	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	*	*	*	0	*	0	0	0	0	0
323	Printing and Related Support	0	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	*	*	*	0	*	0	0	*	0	0
324110	Petroleum Refineries	*	*	0	0	*	0	0	*	0	0
324121	Asphalt Paving Mixture and Block	*	0	*	0	0	0	0	0	0	0
324122	Asphalt Shingle and Coating Materials	0	0	0	0	0	0	0	0	0	0
324191	Petroleum Lubricating Oil and Grease Manufacturing	0	0	0	0	0	0	0	0	0	0
324199	All Other Petroleum and Coal Products Manufacturing	0	0	0	0	0	0	0	0	0	0
325	Chemicals	0	0	0	0	0	0	0	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	0	0
325180	Other Basic Inorganic Chemical Manufacturing	0	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	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	0	0
325199	All Other Basic Organic Chemical Manufacturing	0	0	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	0	0	0	0	0	0	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0	0	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0	0	0

327	Nonmetallic Mineral Products	0	0	0	0	0	0	0	0	0	0
327120	Clay Building Material and Refractories	0	0	0	0	0	0	0	0	0	0
327211	Flat Glass	0	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0
327310	Cements	0	0	0	0	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	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0
331	Primary Metals	0	0	0	0	0	0	0	0	0	0
331110	Iron and Steel Mills and Ferroalloys	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum Production and Processing	0	0	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	0	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metal (except Aluminum) Production and Processing	0	0	0	0	0	0	0	0	0	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0	0	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	0	0	0	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	0	0	0	0	0	0	0	0	0	0
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0	0	0
	Total	*	*	*	*	*	0	0	*	0	0
	Economic characteristic <sup>f</sup>										
	Value of shipments and receipts										
	(million dollars)										
	Under 20	*	*	*	0	*	*	0	*	0	0
	20-49	*	*	*	*	*	*	0	*	0	0
	50-99	*	*	*	0	*	0	0	*	0	0
	100-249	1	*	*	0	*	0	0	0	0	*
	250-499	*	*	*	0	*	*	0	0	0	0
	500 and Over	1	*	1	*	*	0	0	0	0	*
	Total	2	*	2	*	*	*	0	*	0	*

Employment size										
Under 50	*	*	*	0	*	*	0	*	0	0
50-99	*	*	*	0	*	0	0	0	0	0
100-249	*	*	*	*	*	*	0	*	0	*
250-499	1	*	*	0	*	0	0	0	0	*
500-999	1	*	1	*	*	0	0	0	0	*
1000 and Over	*	0	*	0	0	0	0	0	0	0
Total	2	*	2	*	*	*	0	*	0	*

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, 2022 Manufacturing Energy Consumption Survey, and the Bureau of the Census, data files for the 2022 Economic Census, Manufacturing – Industry Series

Note: Totals may not equal sum of components because of independent rounding.

- <sup>a</sup> The Bureau of the Census classifies establishments using the 2022 North American Industry Classification System (NAICS).
- <sup>b</sup> Alternative energy sources consist of those energy sources that could have been substituted for residual fuel oil during 2022. The quantities are expressed in thousands of barrels and therefore represent the quantity of residual fuel oil that could have been displaced by the given alternative type of energy.
- c Total consumed represents those quantities (total inputs) of residual fuel oil that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.
- d Electricity receipts represent 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 have 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 residual fuel oil.
- 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 (RSE) is greater than 50%.

NA=Not available.

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

## RSE Table 10.4 Relative standard errors for table 10.4

Unit: Percentage

		Re	sidual fuel oil				Alterna	tive ene	rgy sources <sup>b</sup>	Coal coke and	
NAICS code <sup>a</sup>	Subsector and industry	Total consumed <sup>c</sup>	Switchable	Not switchable	Electricity receipts <sup>d</sup>	Natural gas	Distillate fuel oil	Coal	HGL (excluding natural gasoline)		Other <sup>e</sup>
		Total United Sta	tes								
311	Food	40.5	12.5	43.5	41.7	13.1	Х	Х	41.7	Х	X
3112	Grain and Oilseed Milling	15.6	15.6	Х	41.7	16.7	Х	Х	41.7	Х	Х
311221	Wet Corn Milling and Starch Manufacturing	X	X	Х	Х	Х	Х	Х	X	Х	Х
31131	Sugar Manufacturing	0.0	Х	0.0	X	Х	Х	Х	Х	Х	Х
3114	Fruit and Vegetable Preserving and Specialty Food	0.0	X	0.0	Х	Х	Х	Х	X	Х	Х
3115	Dairy Product Manufacturing	74.0	19.6	79.2	X	19.6	Х	Х	Х	Х	Х
3116	Animal Slaughtering and Processing	0.0	Х	0.0	Х	Х	Х	Х	X	Х	Х
312	Beverage and Tobacco Products	X	Х	X	Х	Х	X	Х	Х	Х	Х
3121	Beverages	X	Х	X	Х	Х	X	Х	X	Х	Х
3122	Tobacco	X	X	X	Х	Х	X	Х	X	Х	Х
313	Textile Mills	X	Х	Х	Х	Х	Х	Х	X	Х	Х
314	Textile Product Mills	X	X	X	X	Х	X	Х	X	Х	Х
315	Apparel	X	Х	Х	Х	Х	Х	Х	Х	Х	Х
316	Leather and Allied Products	X	Х	X	Х	Х	Х	Х	X	Х	Х
321	Wood Products	37.3	X	37.3	Х	Х	Х	Х	X	Х	X
321113	Sawmills	38.7	X	38.7	Х	Х	X	Х	X	Х	X
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0.0	X	0.0	Х	Х	Х	X	X	Х	Х
321219	Reconstituted Wood Products	0.0	X	0.0	Х	Х	Х	Х	X	Х	Х
3219	Other Wood Products	X	X	Х	Х	Х	X	Х	X	Х	X
322	Paper	0.9	0.0	1.1	0.0	0.0	Х	Х	X	Х	0.0
322110	Pulp Mills	0.0	X	0.0	X	X	X	X	X	Х	Х
322120	Paper Mills	0.0	0.0	0.0	0.0	0.0	X	X	X	Х	0.0
322130	Paperboard Mills	0.0	0.0	0.0	X	0.0	X	X	X	Х	0.0
323	Printing and Related Support	99.0	X	99.0	X	Х	X	X	X	Х	Х
324	Petroleum and Coal Products	15.9	13.9	20.1	X	13.9	23.3	X	14.1	X	X
324110	Petroleum Refineries	0.0	0.0	0.0	X	0.0	Х	X	0.0	Х	X
324121	Asphalt Paving Mixture and Block	17.7	22.7	20.5	X	22.7	23.3	X	23.3	X	X
324122	Asphalt Shingle and Coating Materials	X	X	Х	X	X	Х	X	X	Х	X
324191	Petroleum Lubricating Oil and Grease Manufacturing	X	X	X	X	X	X	X	X	X	X
324199	All Other Petroleum and Coal Products Manufacturing	X	X	X	X	Х	X	X	X	Х	X
325	Chemicals	0.0	0.0	X	X	0.0	0.0	X	X	X	0.0
325110	Petrochemicals	X	X	X	X	X	X	X	X	X	X
325120	Industrial Gases	X	X	X	X	X	X	X	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	X	X	X	X	X	X	X	X	X	X
325193	Ethyl Alcohol	X	X	X	X	X	X	X	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	X	X	X	X	X	X	X	X	X

325199	All Other Basic Organic Chemical Manufacturing	0.0	0.0	X	X	0.0	0.0	Χ	X	Χ	Х
325211	Plastics Materials and Resins	Х	X	X	Х	Х	Х	Х	Х	Х	>
325212	Synthetic Rubber	Х	X	X	Х	Х	Х	Х	Х	Х	)
325220	Artificial and Synthetic Fibers and Filaments	Х	X	X	Х	Х	Х	Х	Х	Х	×
325311	Nitrogenous Fertilizers	Х	X	X	Х	Х	Х	Х	Х	Х	· · · · · · · · · · · · · · · · · · ·
325312	Phosphatic Fertilizers	0.0	0.0	X	Х	0.0	Х	Χ	Х	Χ	0.0
3254	Pharmaceuticals and Medicines	Х	X	X	Х	Х	Х	Х	Х	Χ	· · · · · · · · · · · · · · · · · · ·
325412	Pharmaceutical Preparation	Х	X	Х	Х	Х	Х	Х	Х	Χ	Х
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	Х	X	X	Х	Х	Х	Х	Х	Χ	Х
326	Plastics and Rubber Products	90.7	92.1	99.0	Х	92.1	Х	Х	Х	X	Х
327	Nonmetallic Mineral Products	0.0	X	0.0	Х	Х	Х	Х	X	X	Х
327120	Clay Building Material and Refractories	X	X	X	Х	Х	Х	Х	X	X	X
327211	Flat Glass	X	Х	X	X	X	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	X	X	X	X	X	X	X	X	X	· · · · · ·
327213	Glass Containers	X	Х	X	X	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	X	X	X	X	X	X	X	X	X	·/
327310	Cements	X	X	X	X	X	X	X	X	X	··
327410	Lime	X	X	X	X	X	X	X	X	X	·/
327420	Gypsum	0.0	X	0.0	X	X	X	X	X	X	×
327993	Mineral Wool	X	X	X	X	X	X	X	X	X	··
331	Primary Metals	0.0	X	0.0	X	X	X	X	X	X	·>
331110	Iron and Steel Mills and Ferroalloys	0.0	X	0.0	X	X	X	X	X	X	X
331110	Steel Products from Purchased Steel	X	X	X	X	X	X	X	X	X	·×
3313	Alumina and Aluminum Production and Processing	X	X	X	X	X	X	X	X	X	·>
331314	Secondary Smelting and Alloying of Aluminum	X	X	X	X	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	X	X	X	X	X	X	X	X	^ X	^
331318	Other Aluminum Rolling, Drawing and Extruding	X	X	X	X	X	X	X	X	X	X
3314	Nonferrous Metal (except Aluminum) Production and Processing	X	X	X	X	X	X	X	X	^ X	^
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	X	X	X	X	X	X	X	X	X	^
331410	Foundries	^ X	X	X	^	X	X	X	X	^X	^ X
331511	Iron Foundries	X	X	X	^ X	^ X	X	^ X	X	^X	^ X
331523	Nonferrous Metal Die-Casting Foundries	^ X	X	X	^	^ X		^ X	X	^X	^
331524				^	^		X	^ X		^X	^ X
331524 332	Aluminum Foundries, except Die-Casting Fabricated Metal Products	X 99.5	X	99.5	X	X X	X	X	X X	X	<sup>2</sup>
333		39.5 X	X	99.5 X	^	^ X	x	^ X	X	^ X	
333 334	Machinery										X
	Computer and Electronic Products	0.0	X	0.0	X	X	X	X	X	X	
334413	Semiconductors and Related Devices	0.0	X	0.0	X	X	X	X	X	X	· · · · · ·
335	Electrical Equip., Appliances, and Components	X	X	X	X	X	X	X	X	X	·>
336	Transportation Equipment	96.5	X	96.5	X	X	X	X	X	X	X
336110	Automobile and Light Duty Motor Vehicle Manufacturing	X	X	X	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	X	X	X	X	X	X	X	X	X	·>
336411	Aircraft	X	X	X	X	X	X	X	X	X	X
337	Furniture and Related Products	X	X	X	X	X	X	X	X	X	X
339	Miscellaneous	X	X	X	X	X	X	X	X	X	· · · · · ›
	Total	3.5	9.6	3.7	0.2	9.7	20.3	X	14.1	X	0.0
		Northoast Carana Ba	aion								
		Northeast Census Re	giUII								

3112	Grain and Oilseed Milling	X	Х	Х	Х	Х	Х	Χ	)	<	Х	Х
311221	Wet Corn Milling and Starch Manufacturing	Х	Х	X	Х	Х	X	Х	)	<b>(</b>	Х	Х
31131	Sugar Manufacturing	Х	Х	X	X	Х	X	X	)	<	Х	Χ
3114	Fruit and Vegetable Preserving and Specialty Food	0.0	Х	0.0	X	Х	X	Х	)	<	Х	Х
3115	Dairy Product Manufacturing	19.6	19.6	X	X	19.6	X	X	)	<	Х	Χ
3116	Animal Slaughtering and Processing	Х	X	X	Х	Х	X	X	)	<	Х	X
312	Beverage and Tobacco Products	Х	X	Х	X	Х	Х	X	)	<b>(</b>	Х	X
3121	Beverages	Х	X	Х	X	Х	X	X	)	<	X	Χ
3122	Tobacco	Х	X	Х	X	Х	Х	X	)	<b>(</b>	Х	X
313	Textile Mills	Х	X	Х	X	Х	Х	X	)	<b>(</b>	Х	X
314	Textile Product Mills	Х	X	Х	X	Х	Х	X	)	<b>(</b>	Х	X
315	Apparel	Х	Х	X	X	X	X	X	)	ζ	X	X
316	Leather and Allied Products	Х	X	Х	X	Х	Х	X	)	<b>(</b>	Х	X
321	Wood Products	37.3	X	37.3	X	Х	X	X		ζ	X	X
321113	Sawmills	38.7	Х	38.7	X	Х	X	X	)	<b>(</b>	Х	X
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0.0	X	0.0	X	Х	Х	X		<b>(</b>	Х	X
321219	Reconstituted Wood Products	0.0	X	0.0	X	Х	Х	X	)	<b>(</b>	Х	X
3219	Other Wood Products	Х	X	X	X	X	X	X	)	ζ	X	X
322	Paper	2.5	0.0	3.1	0.0	0.0	Х	X	)	<b>(</b>	Х	0.0
322110	Pulp Mills	Х	X	X	X	X	X	X		ζ	X	X
322120	Paper Mills	0.0	0.0	0.0	0.0	0.0	Х	X	)	<b>(</b>	Х	0.0
322130	Paperboard Mills	Х	X	X	X	X	X	X		ζ	X	X
323	Printing and Related Support	99.0	X	99.0	X	Х	Х	X	)	<b>(</b>	Х	X
324	Petroleum and Coal Products	29.5	X	29.5	X	Х	Х	X	)	<b>(</b>	Х	X
324110	Petroleum Refineries	0.0	X	0.0	X	Х	X	X	)	<	Х	Χ
324121	Asphalt Paving Mixture and Block	31.9	Х	31.9	Х	Х	X	Х	)	<	Х	Х
324122	Asphalt Shingle and Coating Materials	Х	X	X	Х	Х	X	X	)	<	Х	X
324191	Petroleum Lubricating Oil and Grease Manufacturing	Х	Х	X	X	Х	X	X	)	<	Х	Χ
324199	All Other Petroleum and Coal Products Manufacturing	Х	X	Х	X	Х	X	X	)	<b>(</b>	Х	Χ
325	Chemicals	0.0	0.0	Х	X	0.0	0.0	X	)	<b>(</b>	Х	X
325110	Petrochemicals	Х	X	X	Х	Х	X	X	)	<	Х	X
325120	Industrial Gases	Х	Х	X	X	Х	X	X	)	<	Х	Χ
325180	Other Basic Inorganic Chemical Manufacturing	Х	X	X	Х	Х	X	X	)	<	Х	X
325193	Ethyl Alcohol	Х	Х	X	X	Х	X	X	)	<	Х	Χ
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	Х	X	Х	X	Х	X	X	)	<b>(</b>	Х	X
325199	All Other Basic Organic Chemical Manufacturing	0.0	0.0	X	X	0.0	0.0	X	)	<	Х	Χ
325211	Plastics Materials and Resins	Х	X	Х	X	Х	X	X	)	<b>(</b>	Х	X
325212	Synthetic Rubber	Х	X	X	X	Х	X	X	)	<b>(</b>	Х	Χ
325220	Artificial and Synthetic Fibers and Filaments	Х	X	Х	X	Х	X	X	)	<b>(</b>	Х	X
325311	Nitrogenous Fertilizers	Х	X	Х	X	Х	X	X	)	<b>(</b>	Х	Χ
325312	Phosphatic Fertilizers	Х	X	Х	X	Х	X	X	)	<b>(</b>	Х	X
3254	Pharmaceuticals and Medicines	Х	X	Х	X	Х	X	X	)	<b>(</b>	Х	Χ
325412	Pharmaceutical Preparation	X	Х	Х	X	Х	Х	X	)	<b>(</b>	Х	X
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	X	Х	Х	X	Х	Х	X	)	ζ	X	X
326	Plastics and Rubber Products	92.1	92.1	X	X	92.1	Х	X		<b>(</b>	X	X
327	Nonmetallic Mineral Products	0.0	Х	0.0	X	Х	Х	X		ζ	X	X
327120	Clay Building Material and Refractories	X	Х	Х	X	Х	Х	X		<	Х	Х
327211	Flat Glass	Х	Х	X	Х	Х	X	Х	)	<b>(</b>	Х	Х

327212	Other Pressed and Blown Glass and Glassware	X	X	Х	Х	Х	Х	Х	Х	Х	X
327213	Glass Containers	Х	X	X	Х	Х	Х	Х	X	Х	Х
327215	Glass Products from Purchased Glass	Х	Х	X	Х	Х	Х	Х	X	Х	Χ
327310	Cements	Х	Х	Х	Х	Х	Х	Х	Х	Х	X
327410	Lime	X	Х	X	Х	Х	Х	Х	X	Х	X
327420	Gypsum	0.0	Х	0.0	Х	Х	Х	Х	Х	Х	X
327993	Mineral Wool	Х	Х	Х	Х	Х	Х	Х	Х	Х	X
331	Primary Metals	Х	Х	Х	Х	Х	Х	Х	Х	Х	X
331110	Iron and Steel Mills and Ferroalloys	Х	Х	Х	Х	Х	Х	Х	Х	Х	X
3312	Steel Products from Purchased Steel	Х	Х	X	Х	Х	Х	Х	Х	Х	Х
3313	Alumina and Aluminum Production and Processing	Х	Х	X	Х	Х	Х	Х	X	Х	Χ
331314	Secondary Smelting and Alloying of Aluminum	Х	X	X	Х	Х	Х	Х	X	Х	Х
331315	Aluminum Sheet, Plate and Foils	Х	Х	X	Х	Х	Х	Х	X	Х	Х
331318	Other Aluminum Rolling, Drawing and Extruding	Х	X	X	Х	Х	Х	Х	X	Х	Х
3314	Nonferrous Metal (except Aluminum) Production and Processing	X	X	X	Х	Х	Х	Х	X	Х	Χ
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	X	X	X	Х	Х	Х	Х	X	Х	X
3315	Foundries	Х	Х	X	Х	Х	Χ	Х	Х	Х	Χ
331511	Iron Foundries	X	X	X	Х	Х	Х	Х	X	Х	Х
331523	Nonferrous Metal Die-Casting Foundries	Х	X	X	Х	Х	Х	Х	X	Х	Х
331524	Aluminum Foundries, except Die-Casting	X	X	X	Х	Х	Х	Х	X	Х	Х
332	Fabricated Metal Products	99.5	Х	99.5	Х	Х	Χ	Х	Х	Х	X
333	Machinery	Х	Х	X	Х	Х	Χ	Х	X	Х	X
334	Computer and Electronic Products	0.0	Х	0.0	Х	Х	Χ	Х	Х	Х	X
334413	Semiconductors and Related Devices	0.0	X	0.0	Х	Х	Х	Х	X	Х	X
335	Electrical Equip., Appliances, and Components	Х	X	X	Х	Х	Х	Χ	X	Х	X
336	Transportation Equipment	X	X	X	Х	Х	Х	Х	X	Х	X
336110	Automobile and Light Duty Motor Vehicle Manufacturing	Х	Х	X	Х	Х	Χ	Х	X	Х	Х
3364	Aerospace Product and Parts	X	X	X	Х	Х	Х	Х	X	Х	X
336411	Aircraft	Х	Х	X	Х	Х	Х	Х	Х	Х	X
337	Furniture and Related Products	Х	Х	X	Х	Х	Χ	Х	X	Х	X
339	Miscellaneous	Х	X	X	Х	Х	Х	Х	Х	Х	X
	Total	8.5	31.6	5.4	0.0	32.5	0.0	Х	X	X	0.0
		Midwest Census Re	gion								
311	Food	51.3	65.8	51.8	Х	65.8	Х	Х	X	Х	X
3112	Grain and Oilseed Milling	65.8	65.8	X	Х	65.8	Х	Х	X	Х	X
311221	Wet Corn Milling and Starch Manufacturing	Х	X	X	X	X	X	Х	X	X	X
31131	Sugar Manufacturing	0.0	Х	0.0	Х	Х	Χ	Х	Х	Х	X
3114	Fruit and Vegetable Preserving and Specialty Food	Х	X	X	X	X	X	Х	X	Х	X
3115	Dairy Product Manufacturing	79.2	X	79.2	X	X	Х	Х	X	Х	Х
3116	Animal Slaughtering and Processing	0.0	X	0.0	Х	Х	Х	Х	X	Х	X
312	Beverage and Tobacco Products	X	X	X	X	X	X	Х	Х	X	X
3121	Beverages	X	X	X	Х	Х	Х	Х	X	Х	X
3122	Tobacco	X	X	X	X	X	X	X	X	X	X
313	Textile Mills	X	X	X	X	X	X	X	X	X	X
314	Textile Product Mills	X	X	X	X	X	Х	X	X	X	X
315	Apparel	X	X	X	X	X	X	X	X	X	X
316	Leather and Allied Products	X	X	X	X	X	X	X	X	X	X

321	Wood Products	Х	Х	Χ	X	Х	Х	Х	X	Х	Х
321113	Sawmills	Х	X	X	Х	Х	Х	Х	Х	Х	Х
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	X	X	X	Х	Х	Х	Х	Х	Х	Χ
321219	Reconstituted Wood Products	X	Х	X	Х	Х	Х	Х	Х	Х	Х
3219	Other Wood Products	X	X	X	Х	Х	Х	Х	Х	Х	Χ
322	Paper	0.0	0.0	0.0	Х	0.0	Х	Х	Х	Х	Х
322110	Pulp Mills	Х	X	X	X	Х	Х	Х	X	Х	X
322120	Paper Mills	0.0	X	0.0	Χ	Х	Х	Х	Х	Х	Χ
322130	Paperboard Mills	0.0	0.0	X	X	0.0	Х	Х	X	Х	X
323	Printing and Related Support	X	X	X	X	X	X	Х	X	X	Х
324	Petroleum and Coal Products	0.0	0.0	X	Х	0.0	X	Х	X	Х	Х
324110	Petroleum Refineries	X	Х	X	X	X	Х	Х	X	Х	Х
324121	Asphalt Paving Mixture and Block	0.0	0.0	X	X	0.0	X	Х	Х	X	X
324122	Asphalt Shingle and Coating Materials	X	X	X	X	X	X	Х	X	X	X
324191	Petroleum Lubricating Oil and Grease Manufacturing	Х	Х	X	X	X	X	Х	Х	X	X
324199	All Other Petroleum and Coal Products Manufacturing	X	X	X	X	Х	Х	Х	X	Х	X
325	Chemicals	0.0	0.0	X	X	0.0	X	X	X	X	0.0
325110	Petrochemicals	X	X	X	X	X	X	X	X	X	Х
325120	Industrial Gases	X	X	X	X	X	X	X	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	X	X	X	X	X	X	X	X	X	X
325193	Ethyl Alcohol	X	X	X	X	X	X	X	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	X	X	X	X	X	X	X	X	X
325199	All Other Basic Organic Chemical Manufacturing	X	X	X	X	X	X	X	X	X	X
325211	Plastics Materials and Resins	X	X	X	X	X	X	X	X	X	X
325212	Synthetic Rubber	X	X	X	X	X	X	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	X	X	X	X	X	X	X	X	X	X
325311	Nitrogenous Fertilizers	X	X	X	X	X	X	X	X	X	X
325311	Phosphatic Fertilizers	0.0	0.0	X	X	0.0	X	X	X	X	0.0
3254	Pharmaceuticals and Medicines	X	X	X	X	X	X	X	X	X	X
325412	Pharmaceutical Preparation	X	X	X	X	X	X	X	X	X	X
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	X	X	X	X	X	X	X	X	X	X
326	Plastics and Rubber Products	99.0	X	99.0	X	X	X	X	X	X	X
327	Nonmetallic Mineral Products	X	X	X	X	X	X	X	X	X	X
327120	Clay Building Material and Refractories	X	X	X	X	X	X	X	X	X	X
327211	Flat Glass	X	X	X	X	X	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	X	X	X	X	X	X	X	X	X	X
327213	Glass Containers	X	X	X	X	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	X	X	X	X	X	X	X	X	X	X
327310	Cements	X	X	X	X	X	X	X	X	X	X
327410	Lime	X	X	X	X	X	X	X	X	X	X
327420	Gypsum	X	X	X	X	X	X	X	X	X	X
327993	Mineral Wool	X	X	X	X	X	X	X	X	X	X
331	Primary Metals	0.0	X	0.0	X	X	X	^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	V.0	^ X	X	^ X	^ X	X	X	X	^ X	^
3313	Alumina and Aluminum Production and Processing	X	X	X	^ X	^	X	X	X	^X	^
331314	Secondary Smelting and Alloying of Aluminum	X	X	X	X	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	X	^ X	X	^X	^X	X	X	X	^ X	^. X
221212	Aluminum Sheet, Fidde dhu Folis	^	^	^	^	^	^	^	<b>^</b>	^	^

331318	Other Aluminum Rolling, Drawing and Extruding	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
3314	Nonferrous Metal (except Aluminum) Production and Processing	X	Х	Х	Х	Х	Х	Х	Х	Х	Х
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	X	Х	Х	Х	Х	Х	Х	X	Χ	Х
3315	Foundries	X	Х	Х	Х	Х	Х	Х	X	Χ	Х
331511	Iron Foundries	X	Х	Х	Х	Х	Х	Х	X	Χ	Х
331523	Nonferrous Metal Die-Casting Foundries	Х	X	Х	Х	Х	Х	Х	X	Χ	Х
331524	Aluminum Foundries, except Die-Casting	X	X	Х	Х	Х	Х	Х	X	Χ	Х
332	Fabricated Metal Products	X	Х	Х	Х	Х	X	Х	X	Х	Х
333	Machinery	X	Х	Х	Х	Х	X	Х	X	Х	Х
334	Computer and Electronic Products	X	X	Х	Х	Х	Х	Х	X	Χ	Х
334413	Semiconductors and Related Devices	X	X	Х	Х	Х	Х	Х	X	Χ	Х
335	Electrical Equip., Appliances, and Components	X	X	X	Х	Х	Х	Х	X	Χ	Х
336	Transportation Equipment	Х	Х	Х	Х	Х	Х	Х	X	Χ	X
336110	Automobile and Light Duty Motor Vehicle Manufacturing	X	Х	Х	Х	X	Х	Х	X	X	Х
3364	Aerospace Product and Parts	X	Х	X	Х	Х	Х	Х	X	Χ	Х
336411	Aircraft	X	X	X	X	Х	Х	Х	X	Χ	Х
337	Furniture and Related Products	X	X	X	Х	X	Х	Х	X	Χ	X
339	Miscellaneous	X	X	X	Х	X	Х	Х	X	Χ	X
	Total	9.7	0.2	23.5	Х	0.2	Х	Х	X	Χ	0.0
		South Census Re	gion								
311	Food	0.0	0.0	X	X	0.0	X	Х	X	Х	Х
3112	Grain and Oilseed Milling	0.0	0.0	X	Х	0.0	X	Х	X	Χ	Х
311221	Wet Corn Milling and Starch Manufacturing	X	X	X	X	Х	X	Х	X	Х	Х
31131	Sugar Manufacturing	X	X	X	Х	Х	X	Х	X	Χ	Х
3114	Fruit and Vegetable Preserving and Specialty Food	X	X	X	X	Х	X	Х	X	Х	Х
3115	Dairy Product Manufacturing	X	X	Х	Х	Х	Х	Х	X	Х	Х
3116	Animal Slaughtering and Processing	X	X	X	X	Х	X	Х	X	Х	Х
312	Beverage and Tobacco Products	X	X	Х	Х	Х	Х	Х	X	Х	Х
3121	Beverages	X	X	X	X	Х	X	Х	X	Х	Х
3122	Tobacco	X	X	Х	Х	Х	Х	Х	X	Х	X
313	Textile Mills	X	X	X	X	Х	X	Х	X	Χ	Х
314	Textile Product Mills	X	X	Х	Х	Х	Х	Х	X	Х	Х
315	Apparel	X	Х	Х	Х	Х	Х	Х	X	Х	Х
316	Leather and Allied Products	X	X	Х	Х	Х	X	Х	X	Х	X
321	Wood Products	X	X	X	Х	Х	X	Х	X	Χ	X
321113	Sawmills	X	X	Х	Х	Х	Х	Х	X	Χ	Х
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	X	Х	Х	Х	Х	Х	Х	X	Х	Х
321219	Reconstituted Wood Products	X	X	Х	Х	Х	X	Х	X	Х	Х
3219	Other Wood Products	X	Х	Х	Х	Х	Х	Х	Х	Х	Х
322	Paper	0.0	0.0	0.0	Х	0.0	Х	Х	Х	Х	0.0
322110	Pulp Mills	0.0	Х	0.0	Х	Х	Х	Х	Х	Χ	Х
322120	Paper Mills	0.0	Х	0.0	Х	Х	Х	Х	Х	Χ	Х
322130	Paperboard Mills	0.0	0.0	0.0	Х	0.0	Х	Х	Х	Χ	0.0
323	Printing and Related Support	X	X	X	Х	Х	Х	Х	X	Χ	Х
324	Petroleum and Coal Products	23.3	23.2	29.3	Х	23.2	23.3	Х	23.3	Χ	Х
324110	Petroleum Refineries	X	X	X	Х	Х	Х	Х	X	Χ	Х
324121	Asphalt Paving Mixture and Block	23.3	23.2	29.3	Х	23.2	23.3	Х	23.3	Χ	Х

324122	Asphalt Shingle and Coating Materials	X	Х	Χ	Х	Х	Х	Χ	Х	Х	Х
324191	Petroleum Lubricating Oil and Grease Manufacturing	X	Х	X	Х	Х	Х	Χ	X	Χ	X
324199	All Other Petroleum and Coal Products Manufacturing	Х	Х	X	Х	Х	Х	Χ	X	Χ	X
325	Chemicals	Х	Х	Х	X	Х	Х	Χ	X	Χ	X
325110	Petrochemicals	X	Х	X	X	Χ	X	Χ	X	Χ	X
325120	Industrial Gases	X	Х	X	Х	Х	Х	Χ	X	Χ	X
325180	Other Basic Inorganic Chemical Manufacturing	X	Χ	X	Х	Х	Х	Χ	X	Χ	X
325193	Ethyl Alcohol	X	Х	X	Х	Х	Х	Χ	X	Χ	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	Х	X	X	Χ	X	Χ	X	Χ	X
325199	All Other Basic Organic Chemical Manufacturing	X	Χ	Х	X	Χ	X	Χ	X	Χ	X
325211	Plastics Materials and Resins	X	Х	X	X	Χ	X	Χ	X	Χ	X
325212	Synthetic Rubber	X	Χ	X	Х	Х	Х	Χ	X	Χ	X
325220	Artificial and Synthetic Fibers and Filaments	X	Χ	X	Х	Х	Х	Χ	X	Χ	X
325311	Nitrogenous Fertilizers	X	Χ	X	Х	Х	Х	Χ	X	Χ	X
325312	Phosphatic Fertilizers	X	Х	X	Х	Х	Х	Χ	X	Χ	X
3254	Pharmaceuticals and Medicines	X	Χ	Х	X	Χ	X	Χ	X	Χ	X
325412	Pharmaceutical Preparation	X	Χ	Х	Х	Х	Х	Χ	X	Χ	X
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	X	X	X	X	X	X	X	X	X	X
326	Plastics and Rubber Products	X	Χ	Х	Χ	Х	Х	Χ	X	Χ	X
327	Nonmetallic Mineral Products	X	X	X	X	X	X	X	X	X	X
327120	Clay Building Material and Refractories	Х	Х	Х	Χ	Х	Х	Χ	Х	Χ	X
327211	Flat Glass	X	Χ	Х	X	Χ	X	Χ	X	Χ	X
327212	Other Pressed and Blown Glass and Glassware	X	Χ	Х	Χ	Х	Х	Χ	X	Χ	X
327213	Glass Containers	X	Χ	Х	X	Χ	X	Χ	X	Χ	X
327215	Glass Products from Purchased Glass	X	Χ	Х	X	Χ	X	Χ	X	Χ	X
327310	Cements	Х	Х	X	Х	Х	Х	Χ	X	Χ	X
327410	Lime	X	Х	X	Х	Х	Х	Χ	X	Χ	X
327420	Gypsum	X	Х	X	X	Χ	X	Χ	X	Χ	X
327993	Mineral Wool	X	Х	X	Х	Х	Х	Χ	X	Χ	X
331	Primary Metals	0.0	Х	0.0	X	Χ	X	Χ	X	Χ	X
331110	Iron and Steel Mills and Ferroalloys	0.0	Х	0.0	Х	Х	Х	Χ	X	Χ	X
3312	Steel Products from Purchased Steel	X	Х	X	X	Χ	X	Χ	X	Χ	X
3313	Alumina and Aluminum Production and Processing	X	Х	X	Х	Х	Х	Χ	X	Χ	X
331314	Secondary Smelting and Alloying of Aluminum	X	Х	X	X	Χ	X	Χ	X	Χ	X
331315	Aluminum Sheet, Plate and Foils	X	Χ	Х	Х	Х	Х	Χ	X	Χ	X
331318	Other Aluminum Rolling, Drawing and Extruding	X	Х	X	X	Χ	X	Χ	X	Χ	X
3314	Nonferrous Metal (except Aluminum) Production and Processing	X	Χ	Х	Х	Х	Х	Χ	X	Χ	X
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	X	Χ	Х	X	Х	Х	Χ	X	Χ	X
3315	Foundries	X	Χ	Х	Х	Х	Х	Χ	X	Χ	X
331511	Iron Foundries	X	Χ	Х	X	Χ	X	Χ	X	Χ	X
331523	Nonferrous Metal Die-Casting Foundries	X	Χ	Х	Х	Х	Х	Χ	X	Χ	X
331524	Aluminum Foundries, except Die-Casting	X	Χ	X	Х	Х	Х	Χ	X	Χ	X
332	Fabricated Metal Products	X	X	X	X	X	Х	X	X	X	X
333	Machinery	X	X	X	X	X	Х	X	X	X	X
334	Computer and Electronic Products	X	X	X	X	X	Х	X	X	X	Χ
334413	Semiconductors and Related Devices	X	X	X	X	X	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	X	X	X	X	X	X	X	X	X	X
336	Transportation Equipment	96.5	Х	96.5	X	Χ	Х	Х	X	Х	X

336110	Automobile and Light Duty Motor Vehicle Manufacturing	X	Х	Х	Х	Х	Х	Х	X	Х	Х
3364	Aerospace Product and Parts	X	Х	X	Х	Х	Х	Х	Х	Х	Х
336411	Aircraft	X	Х	Х	Х	Х	Х	Х	Х	Х	Х
337	Furniture and Related Products	X	Х	Х	X	X	Х	Χ	Х	Х	Х
339	Miscellaneous	X	X	X	X	Х	Х	X	X	Х	Х
	Total	4.9	8.0	5.5	X	8.2	23.3	Χ	23.3	Х	0.0
		West Census Region									
311	Food	41.7	41.7	X	41.7	X	X	X	41.7	X	X
3112	Grain and Oilseed Milling	41.7	41.7	X	41.7	X	X	X	41.7	X	X
311221	Wet Corn Milling and Starch Manufacturing	X	X	X	X	X	X	X	X	X	X
31131	Sugar Manufacturing	X	X	X	X	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	X	X	X	X	X	X	X	X	X	X
3115	Dairy Product Manufacturing	X	X	X	X	X	X	X	X	X	X
3116	Animal Slaughtering and Processing	X	X	X	X	X	X	X	X	X	X
312	Beverage and Tobacco Products	X	X	X	X	X	X	X	X	X	X
3121	Beverages	X	X	X	X	X	X	X	X	X	X
3122	Tobacco	X	X	X	X	X	X	X	X	X	X
313	Textile Mills	X	X	X	X	X	X	Χ	X	Х	X
314	Textile Product Mills	X	X	X	X	X	X	Χ	X	Х	X
315	Apparel	X	X	X	X	X	Х	X	X	X	Х
316	Leather and Allied Products	X	X	X	X	X	Х	X	X	X	Х
321	Wood Products	X	X	X	X	X	Х	X	X	Х	X
321113	Sawmills	X	X	X	X	X	Х	X	X	Х	X
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	X	X	X	Х	Х	Х	Χ	X	Х	X
321219	Reconstituted Wood Products	X	X	X	X	Х	Х	Χ	X	Х	Х
3219	Other Wood Products	X	X	X	X	Х	Х	Х	X	Х	Х
322	Paper	0.0	0.0	0.0	Х	0.0	Х	Χ	X	Х	Х
322110	Pulp Mills	0.0	X	0.0	X	Х	Х	Χ	X	Х	Х
322120	Paper Mills	X	X	X	X	Х	Х	X	X	Х	Х
322130	Paperboard Mills	0.0	0.0	0.0	Х	0.0	Х	Χ	Х	Х	Х
323	Printing and Related Support	X	X	X	X	Х	Х	X	X	Х	Х
324	Petroleum and Coal Products	23.7	0.0	43.1	Х	0.0	Х	Χ	0.0	Х	Х
324110	Petroleum Refineries	0.0	0.0	Х	Х	0.0	Х	Χ	0.0	Х	Х
324121	Asphalt Paving Mixture and Block	43.1	Х	43.1	Х	Х	Х	Х	X	Х	Х
324122	Asphalt Shingle and Coating Materials	X	X	X	X	Х	Х	Х	X	Х	Х
324191	Petroleum Lubricating Oil and Grease Manufacturing	X	Х	Х	Х	Х	Х	Х	Х	Х	Х
324199	All Other Petroleum and Coal Products Manufacturing	X	Х	Х	X	Х	Х	Х	Х	Х	Х
325	Chemicals	X	Х	X	Х	Х	Х	Х	Х	Х	Х
325110	Petrochemicals	X	Х	Х	X	Х	Х	Х	Х	Х	Х
325120	Industrial Gases	X	Х	Х	Х	Х	Х	Χ	Х	Х	Х
325180	Other Basic Inorganic Chemical Manufacturing	X	Х	X	Х	Х	Х	Х	Х	Х	Х
325193	Ethyl Alcohol	X	Х	X	X	X	Х	Х	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	X	X	X	X	Х	X	X	X	X
325199	All Other Basic Organic Chemical Manufacturing	X	X	X	X	X	Х	X	X	X	X
325211	Plastics Materials and Resins	X	Х	X	X	Х	X	X	X	Х	X
325212	Synthetic Rubber	X	X	X	X	X	X	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	X	Х	X	X	Х	Х	X	X	Х	X

325311	Nitrogenous Fertilizers	X	Х	Х	X	Х	X	Х	X	Х	Х
325312	Phosphatic Fertilizers	Х	Х	Х	Х	Х	X	Х	X	Х	Х
3254	Pharmaceuticals and Medicines	Х	Х	Х	Х	Х	Х	Х	X	Х	Х
325412	Pharmaceutical Preparation	Х	Х	Х	Х	Х	Х	Х	X	Х	Х
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
326	Plastics and Rubber Products	Х	Х	Х	Х	Х	Х	Х	X	Х	Х
327	Nonmetallic Mineral Products	Х	Х	Х	Х	Х	Х	Х	X	Х	Х
327120	Clay Building Material and Refractories	Х	Х	Х	Х	Х	X	Х	X	Х	Х
327211	Flat Glass	X	Х	Х	Х	Х	X	Х	X	X	Х
327212	Other Pressed and Blown Glass and Glassware	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
327213	Glass Containers	X	Х	X	Х	Х	X	Х	X	X	Х
327215	Glass Products from Purchased Glass	X	Х	X	Х	Х	X	Х	Х	Χ	Х
327310	Cements	Х	Х	Х	X	Х	X	Х	X	Χ	Х
327410	Lime	X	Х	X	Х	Х	X	Х	Х	Χ	Х
327420	Gypsum	Х	Х	Х	X	Х	X	Х	X	Χ	Х
327993	Mineral Wool	X	Х	X	Х	X	X	Х	X	Х	Х
331	Primary Metals	Х	Х	Х	X	Х	X	Х	X	Χ	Х
331110	Iron and Steel Mills and Ferroalloys	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
3312	Steel Products from Purchased Steel	Х	Х	Х	X	Х	X	Х	X	Χ	Х
3313	Alumina and Aluminum Production and Processing	X	Х	X	Х	Х	X	Х	Х	Χ	Х
331314	Secondary Smelting and Alloying of Aluminum	Х	Х	Х	X	Х	X	Х	X	Χ	Х
331315	Aluminum Sheet, Plate and Foils	X	Х	X	Х	X	X	Х	X	Х	Х
331318	Other Aluminum Rolling, Drawing and Extruding	X	Х	X	Х	X	X	Х	X	Х	Х
3314	Nonferrous Metal (except Aluminum) Production and Processing	X	Х	X	Х	X	X	Х	X	Х	Х
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	X	Х	X	Х	X	X	Х	X	Х	Х
3315	Foundries	X	X	X	X	Х	Х	Х	X	Х	Х
331511	Iron Foundries	X	Х	X	Х	X	X	Х	X	Х	Х
331523	Nonferrous Metal Die-Casting Foundries	X	X	X	X	X	Х	Х	X	Х	Х
331524	Aluminum Foundries, except Die-Casting	X	Х	X	Х	X	X	Х	X	Х	Х
332	Fabricated Metal Products	X	X	X	X	X	Х	Х	X	Х	Х
333	Machinery	X	X	X	X	X	X	Х	X	Х	Х
334	Computer and Electronic Products	X	X	X	X	X	X	X	X	Χ	Х
334413	Semiconductors and Related Devices	X	X	X	X	X	X	Х	X	Х	Х
335	Electrical Equip., Appliances, and Components	X	X	X	X	Х	X	X	X	Χ	Х
336	Transportation Equipment	X	X	X	X	X	Х	Х	X	Х	Х
336110	Automobile and Light Duty Motor Vehicle Manufacturing	X	X	X	X	Х	X	Х	X	Χ	Х
3364	Aerospace Product and Parts	X	X	X	X	X	X	X	X	Χ	Х
336411	Aircraft	X	X	X	X	X	X	Х	X	Х	Х
337	Furniture and Related Products	X	Х	Х	X	X	X	Х	X	Х	Х
339	Miscellaneous	X	X	Х	Х	X	X	Х	X	X	Х
	Total	4.4	0.1	7.0	41.7	0.0	Х	Χ	0.3	X	Χ

Eco	nomic characteristic <sup>f</sup>
Va	ue of shipments and receipts
(m	lion dollars)

Under 20	17.2	22.9	19.4	X	22.9	23.1	Х	23.1	Х	Х
20-49	56.5	83.0	71.9	41.7	85.3	85.7	Χ	83.4	Χ	X
50-99	22.7	0.7	61.1	Х	0.7	Х	Χ	0.0	Х	Х
100-249	8.0	21.2	0.0	Х	21.6	Х	Χ	X	Х	0.0
250-499	6.2	1.9	6.3	Х	1.9	0.0	Χ	X	X	Χ
500 and Over	0.0	0.0	0.0	0.0	0.0	X	Χ	X	Χ	0.0
Total	3.5	9.6	3.7	0.2	9.7	20.3	Х	14.1	Χ	0.0
Employment size										
Employment size										
Under 50			18.8	X		23.3	X	14.1	X	X
50-99	0.0	0.0	0.0	X	0.0	X	Х	Х	Х	Х
100-249	7.7	1.9	8.4	41.7	2.7	0.0	Χ	41.7	Χ	0.0
250-499	7.9	15.7	0.0	Х	15.8	Х	Χ	X	Х	0.0
500-999	2.6	0.0	2.8	0.0	0.0	Х	Х	Х	Χ	0.0
1000 and Over	0.0	X	0.0	X	X	X	Χ	Х	Χ	Χ
Total	3.5	9.6	3.7	0.2	9.7	20.3	Х	14.1	Х	0.0

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, 2022 Manufacturing Energy Consumption Survey, and the Bureau of the Census, data files for the 2022 Economic Census, Manufacturing – Industry Series

Note: Totals may not equal sum of components because of independent rounding.

D=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

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

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

<sup>&</sup>lt;sup>a</sup> The Bureau of the Census classifies establishments using the 2022 North American Industry Classification System (NAICS).

<sup>&</sup>lt;sup>b</sup> Alternative energy sources consist of those energy sources that could have been substituted for residual fuel oil during 2022. The quantities are expressed in thousands of barrels and therefore represent the quantity of residual fuel oil that could have been displaced by the given alternative type of energy.

<sup>&</sup>lt;sup>c</sup> Total consumed represents those quantities (total inputs) of residual fuel oil that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

<sup>&</sup>lt;sup>d</sup> Electricity receipts represent 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 have 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 residual fuel oil.

f Value of shipments and receipts and employment size categories were supplied by the Bureau of the Census.

<sup>\*</sup> Estimate less than 0.5.