$\qquad$

| NAICS Code(a) | Subsector and Industry | Residual Fuel Oil |  |  | Alternative Energy Sources(b) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { Total } \\ \text { Consumed(c) } \end{gathered}$ | Switchable | $\begin{gathered} \text { Not } \\ \text { Switchable } \end{gathered}$ | Electricity Receipts(d) | $\begin{aligned} & \text { Natural } \\ & \text { Gas } \end{aligned}$ | Distillate Fuel Oil | Coal | LPG | Coal Coke and Breeze | Other(e) |
| Total United States |  |  |  |  |  |  |  |  |  |  |  |
| 311 | Food | 4,124 | 2,134 | 454 | 0 | 1,896 | 284 | 0 | Q | 0 | Q |
| 3112 | Grain and Oilseed Milling | 260 | 186 | 45 | 0 | 186 | 0 | 0 | 0 | 0 | 0 |
| 311221 | Wet Corn Milling | 27 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31131 | Sugar Manufacturing | 1,359 | 162 | 48 | 0 | 162 | 16 | 0 | 0 | 0 | 0 |
| 3114 | Fruit and Vegetable Preserving and Specialty Foods | 393 | 249 | 27 | 0 | 152 | 134 | 0 | Q | 0 | 0 |
| 3115 | Dairy Products | 209 | Q | Q | 0 | Q | Q | 0 | Q | 0 | 0 |
| 3116 | Animal Slaughtering and Processing | 539 | 324 | 172 | 0 | 274 | 0 | 0 | 0 | 0 | Q |
| 312 | Beverage and Tobacco Products | 431 | 325 | 107 | 0 | 325 | 58 | 0 | 0 | 0 | 0 |
| 3121 | Beverages | 290 | 232 | 58 | 0 | 232 | 0 | 0 | 0 | 0 | 0 |
| 3122 | Tobacco | 141 | 93 | 49 | 0 | 93 | 58 | 0 | 0 | 0 | 0 |
| 313 | Textile Mills | 396 | 164 | 228 | 0 | 164 | 0 | 0 | 0 | 0 | 0 |
| 314 | Textile Product Mills | Q | 36 | Q | 0 | 35 | Q | 0 | 0 | 0 | 0 |
| 315 | Apparel | Q | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 316 | Leather and Allied Products | 42 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 321 | Wood Products | 604 | 427 | 117 | 0 | 355 | 427 | 0 | 0 | 0 | Q |
| 321113 | Sawmills | 58 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3212 | Veneer, Plywood, and Engineered Woods | 64 | 0 | 59 | 0 | - | 0 | 0 | 0 | 0 | 0 |
| 3219 | Other Wood Products | Q | Q | 0 | 0 | 0 | Q | 0 | 0 | 0 | Q |
| 322 | Paper | 14,528 | 4,748 | 8,539 | 851 | 3,507 | 692 | 660 | 64 | 0 | 97 |
| 322110 | Pulp Mills | 1,796 | 238 | 1,131 | 0 | 228 | 10 | 0 | 2 | 0 | 14 |
| 322121 | Paper Mills, except Newsprint | 7,521 | 2,134 | 5,290 | 850 | 1,371 | 156 | 200 | 62 | 0 | 42 |
| 322122 | Newsprint Mills | 373 | 0 | 307 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 322130 | Paperboard Mills | 4,555 | 2,304 | 1,779 | 1 | 1,836 | 526 | 460 | 0 | 0 | 42 |
| 323 | Printing and Related Support | Q | 0 | Q | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 324 | Petroleum and Coal Products | 9,198 | 2,121 | 903 | 0 | 429 | 1,542 | 0 | 404 | 0 | 19 |
| 324110 | Petroleum Refineries | 8,292 | 1,244 | 903 | 0 | 429 | 665 | 0 | 404 | 0 | 19 |
| 324199 | Other Petroleum and Coal Products | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 325 | Chemicals | 3,733 | 2,015 | 1,468 | 0 | 1,799 | 403 | 16 | 0 | 0 | 0 |
| 325110 | Petrochemicals | 732 | 138 | 593 | 0 | 138 | 0 | 0 | 0 | 0 | 0 |
| 325120 | Industrial Gases | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 325181 | Alkalies and Chlorine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 325182 | Carbon Black | 72 | 72 | 0 | 0 | 72 | 0 | 0 | 0 | 0 | 0 |
| 325188 | Other Basic Inorganic Chemicals | 1,406 | 777 | 622 | 0 | 777 | 0 | 0 | 0 | 0 | 0 |
| 325192 | Cyclic Crudes and Intermediates | 93 | 85 | 8 | 0 | 0 | 85 | 0 | 0 | 0 | 0 |
| 325193 | Ethyl Alcohol | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 325199 | Other Basic Organic Chemicals | 254 | 162 | 59 | 0 | 110 | 65 | 0 | 0 | 0 | 0 |
| 325211 | Plastics Materials and Resins | 58 | 58 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 0 |
| 325212 | Synthetic Rubber | 5 | 5 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 |
| 325222 | Noncellulosic Organic Fibers | 434 | 434 | 0 | 0 | 357 | 231 | 16 | 0 | 0 | 0 |
| 325311 | Nitrogenous Fertilizers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 325312 | Phosphatic Fertilizers | 39 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3254 | Pharmaceuticals and Medicines | 173 | 41 | 128 | 0 | 41 | 20 | 0 | 0 | 0 | 0 |
| 325412 | Pharmaceutical Preparation | 173 | 41 | 128 | 0 | 41 | 20 | 0 | 0 | 0 | 0 |
| 325992 | Photographic Film, Paper, Plate, and Chemicals | 21 | 3 | 18 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 326 | Plastics and Rubber Products | 1,414 | 885 | Q | 0 | 665 | Q | 0 | 0 | 0 | 0 |
| 327 | Nonmetallic Mineral Products | 513 | 384 | 129 | * | 130 | 219 | 5 | * | 35 | 0 |
| 327211 | Flat Glass | 218 | 218 | 0 | 0 | 0 | 218 | 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 | 156 | 58 | 98 | * | 23 | 0 | 5 | * | 35 | 0 |
| 327410 | Lime | 60 | 60 | 0 | 0 | 58 | 2 | 0 | 0 | 0 | 0 |
| 327420 | Gypsum | * | 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 | 3,097 | 510 | 545 | 0 | 510 | 0 | 0 | 0 | 0 | 0 |

$\qquad$
Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006; Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;

|  |  | Residual Fuel Oil |  |  | Alternative Energy Sources(b) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS Code(a) | Subsector and Industry | Total Consumed(c) | Switchable | $\begin{gathered} \text { Not } \\ \text { Switchable } \end{gathered}$ | Electricity Receipts(d) | $\begin{aligned} & \text { Natural } \\ & \text { Gas } \end{aligned}$ | Distillate Fuel Oil | Coal | LPG | Coal Coke and Breeze | Other(e) |
| 331111 | Iron and Steel Mills | 3,042 | 478 | 539 | 0 | 478 | 0 | 0 | 0 | 0 | 0 |
| 331112 | Electrometallurgical Ferroalloy Products | 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 | 43 | 26 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 |
| 331314 | Secondary Smelting and Alloying of Aluminum | 18 | 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 |
| 331316 | Aluminum Extruded Products | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 3314 | Nonferrous Metals, except Aluminum | 10 | 6 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 3315 | Foundries | Q | 0 | Q | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 331511 | Iron Foundries | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 331521 | Aluminum Die-Casting Foundries | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 331524 | Aluminum Foundries, except Die-Casting | Q | 0 | Q | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 332 | Fabricated Metal Products | Q | 0 | Q | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 333 | Machinery | Q | Q | 0 | 0 | Q | 0 | 0 | 0 | 0 | 0 |
| 334 | Computer and Electronic Products | 58 | 45 | Q | 0 | 45 | Q | 0 | 0 | 0 | 0 |
| 334413 | Semiconductors and Related Devices | 4 | 0 | 4 | 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 | 1,038 | 427 | 194 | 0 | 427 | 0 | 0 | 0 | 0 | 0 |
| 336111 | Automobiles | 27 | 7 | 20 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 336112 | Light Trucks and Utility Vehicles | 6 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 3364 | Aerospace Product and Parts | 490 | 348 | 106 | 0 | 348 | 0 | 0 | 0 | 0 | 0 |
| 336411 | Aircraft | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 337 | Furniture and Related Products | Q | Q | * | 0 | 0 | Q | 0 | 0 | 0 | 0 |
| 339 | Miscellaneous | Q | Q | * | 0 | Q | Q | 0 | 0 | 0 | 0 |
|  | Total | 39,925 | 14,750 | 13,283 | 851 | 10,660 | 4,057 | 681 | 645 | 35 | 239 |

## Northeast Census Region

| 311 | Food |
| :--- | :--- |
| 3112 | Grain and Oilseed Milling |
| 311221 | Wet Corn Milling |
| 31131 | Sugar Manufacturing |
| 3114 | Fruit and Vegetable Preserving and Specialty Foods |
| 3115 | Dairy Products |
| 3116 | Animal Slaughtering and Processing |
| 312 | Beverage and Tobacco Products |
| 3121 | Beverages |
| 3122 | Tobacco |
| 313 | Textile Mills |
| 314 | Textile Product Mills |
| 315 | Apparel |
| 316 | Leather and Allied Products |
| 321 | Wood Products |
| 321113 | Sawmills |
| 3212 | Veneer, Plywood, and Engineered Woods |
| 3219 | Other Wood Products |
| 322 | Paper |
| 322110 | Pulp Mills |
| 322121 | Paper Mills, except Newsprint |
| 322122 | Newsprint Mills |
| 322130 | Paperbard Mills |
| 323 | Printing and Related Support |
| 324 | Petroleum and Coal Products |
| 324110 | Petroloem Refineries |
| 324199 | Other Petroleum and Coal Products |
| 325 | Chemicals |
| 325110 | Petrochemicals |
| 325120 | Industrial Gases |
| 325181 | Alkalies and Chlorine |
| 325182 | Carbon Black |


| 520 | 387 |  |
| ---: | ---: | ---: |
| 29 | 0 | 66 |
| 27 | 0 | 29 |
| 0 | 0 | 27 |
| 138 | 138 | 0 |
| 71 | $Q$ | 0 |
| 0 | 0 | $Q$ |
| 155 | 74 | 0 |
| 86 | 54 | 81 |
| 69 | 20 | 32 |
| 318 | $Q$ | 48 |
| 0 | 0 | 220 |
| 0 | 0 | 0 |
| 42 | 0 | 0 |
| $Q$ | 0 | 19 |
| $Q$ | 0 | $Q$ |
| 0 | 0 | $Q$ |
| 0 | 0 | 0 |
| 0 | 1,200 | 2,868 |
| 4,317 | 0 | 270 |
| 270 | 968 | 2,157 |
| 3,195 | 0 | 307 |
| 307 | 227 | 102 |
| 329 | 0 | $Q$ |
| $Q$ | $Q$ | 436 |
| 1,804 | 236 | 436 |
| 1,090 | 0 | 0 |
| 0 | 1,044 | 292 |
| 1,551 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |

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178
0
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134
$Q$
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131
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131
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48
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52
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|  |  |
| :--- | :--- |
|  |  |
| Nalcs |  |
| Code(a) | Subsector and Industry |
| 325188 | Other Basic Inorganic Chemicals |
| 325192 | Cyclic Crutes and Intermediates |
| 325193 | Ethyl Alcohol |
| 325199 | Other Basic Organic Chemicals |
| 325211 | Plastics Materials and Resins |
| 325212 | Synthetic Rubber |
| 325222 | Noncellulosic Organic Fibers |
| 325311 | Nitrogenous Fertilizers |
| 325312 | Phosphatic Fertilizers |
| 3254 | Pharmaceuticals and Medicines |
| 325412 | Pharmaceutical Preparation |
| 325992 | Plotographic Film, Paper, Plate, and Chemicals |
| 326 | Plastics and Rubber Products |
| 327 | Nonmetallic Mineral Products |
| 327211 | Flat Glass |
| 327212 | Other Pressed and Blown Glass and Glassware |
| 327213 | Glass Containers |
| 327215 | Glass Products from Purchased Glass |
| 327310 | Cements |
| 327410 | Lime |
| 327420 | Gypsum |
| 327993 | Mineral Wool |
| 331 | Primary Metals |
| 331111 | Iron and Steel Mills |
| 331112 | Electrometallurgical Ferroalloy Products |
| 3312 | Steel Products from Purchased Steel |
| 3313 | Alumina and Aluminum |
| 331314 | Secondary Smelting and Alloying of Aluminum |
| 331315 | Aluminum Sheet, Plate and Foils |
| 331316 | Aluminum Extruded Products |
| 3314 | Nonferrous Metals, except Aluminum |
| 3315 | Foundries |
| 331511 | Iron Foundries |
| 331521 | Aluminum Die-Casting Foundries |
| 331524 | Aluminum Foundries, except Die-Casting |
| 332 | Fabricated Metal Products |
| 333 | Machinery |
| 334 | Computer and Electronic Products |
| 334413 | Semiconductors and Related Devices |
| 335 | Electrical Equip., Appliances, and Components |
| 336 | Transportation Equipment |
| 336111 | Automobiles |
| 336112 | Light Trucks and Utility Vehicles |
| 3364 | Aerospace Product and Parts |
| 336411 | Aircraft |
| 337 | Furniture and Related Products |
| 339 | Miscellaneous |
|  | Total |
|  |  |
|  |  |


| Residual Fuel Oil |  |  | Alternative Energy Sources(b) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Consumed(c) | Switchable | Not Switchable | Electricity Receipts(d) | Natural Gas | Distillate Fuel Oil | Coal | LPG | Coal Coke and Breeze | Other(e) |
| 826 | 697 | 122 | 0 | 697 | 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 |
| 77 | 53 | 24 | 0 | 1 | 52 | 0 | 0 | 0 | 0 |
| 19 | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 9 | 0 | 0 | 9 | 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 |
| 152 | Q | 128 | 0 | Q | 0 | 0 | 0 | 0 | 0 |
| 152 | Q | 128 | 0 | Q | 0 | 0 | 0 | 0 | 0 |
| 21 | 3 | 18 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| Q | Q | Q | 0 | Q | 0 | 0 | 0 | 0 | 0 |
| 214 | Q | 129 | 0 | Q | 2 | 0 | 0 | 35 | 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 |
| 133 | 35 | 98 | 0 | 0 | 0 | 0 | 0 | 35 | 0 |
| 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 | 32 | 5 | 0 | 32 | 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 |
| 43 | 26 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 10 | 6 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| Q | 0 | Q | 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 |
| Q | 0 | Q | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Q | Q | 0 | 0 | Q | 0 | 0 | 0 | 0 | 0 |
| 58 | 45 | Q | 0 | 45 | Q | 0 | 0 | 0 | 0 |
| 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 410 | 305 | 105 | 0 | 305 | 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 |
| 410 | 305 | 105 | 0 | 305 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Q | Q | * | 0 | 0 | Q | 0 | 0 | 0 | 0 |
| Q | Q | * | 0 | 0 | Q | 0 | 0 | 0 | 0 |
| 10,195 | $4,878$ | $4,321$ | 724 | 3,115 | 1,298 | 62 | 249 | 35 |  |


| 311 | Food |
| :--- | :--- |
| 3112 | Grain and Oilseed Milling |
| 311221 | Wet Corn Milling |
| 31131 | Sugar Manufacturing |
| 3114 | Fruit and Vegetable Preserving and Specialty Foods |
| 3115 | Dairy Products |
| 316 | Animal Slaughtering and Processing |
| 312 | Beverage and Tobacco Products |
| 3121 | Beverages |

1,813
175
0
210
117
$Q$
301
117
117
$Q$
159
0
162
0
$Q$
205
117
117
177
16
0
48
0
16
$Q$
0
0
0
0
0
0
0
0
0
0
0
$\begin{array}{rr}Q & Q \\ 159 & 0 \\ 0 & 0 \\ 162 & 16 \\ 0 & 0 \\ 0 & Q \\ 205 & 0 \\ 117 & 0 \\ 117 & 0\end{array}$
$\begin{array}{rl}\mathbf{Q} & 0 \\ 0 & 0 \\ 0 & 0 \\ 16 & 0 \\ 0 & 0 \\ Q & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0\end{array}$


|  |  |
| :--- | :--- |
|  |  |
|  |  |
| NAICs |  |
| Code(a) | Subsector and Industry |
| 3122 | Tobacco |
| 313 | Textile Mills |
| 314 | Textile Product Mills |
| 315 | Apparel |
| 316 | Leather and Allied Products |
| 321 | Wood Products |
| 321113 | Sawmills |
| 3212 | Vener, Plywood, and Engineered Woods |
| 3219 | Other Wood Products |
| 322 | Paper |
| 322110 | Pulp Mills |
| 322121 | Paper Mills, except Newsprint |
| 322122 | Newsprint Mills |
| 322130 | Paperboard Mills |
| 323 | Printing and Related Support |
| 324 | Petroleum and Coal Products |
| 324110 | Petroleum Refineries |
| 324199 | Other Petroleum and Coal Products |
| 325 | Chemicals |
| 325110 | Petrochemicals |
| 325120 | Industrial Gases |
| 325181 | Alkalies and Chlorine |
| 325182 | Carbon Black |
| 325188 | Other Basic Inorganic Chemicals |
| 325192 | Cyclic Crudes and Intermediates |
| 325193 | Etthl Alcohol |
| 325199 | Other Basic Organic Chemicals |
| 325211 | Plastics Materials and Resins |
| 325212 | Synthetic Rubber |
| 325222 | Noncellulosic Organic Fibers |
| 325311 | Nitrogenous Fertilizers |
| 325312 | Phosphatic Fertilizers |
| 3254 | Pharmaceuticals and Medicines |
| 325412 | Pharmaceutical Preparation |
| 325992 | Photographic Film, Paper, Plate, and Chemicals |
| 326 | Plastics and Rubber Products |
| 327 | Nonmetallic Mineral Products |
| 327211 | Flat Glass |
| 327212 | Other Pressed and Blown Glass and Glassware |
| 327213 | Glass Containers |
| 327215 | Glass Products from Purchased Glass |
| 327310 | Cements |
| 327410 | Lime |
| 327420 | Gypsum |
| 327993 | Mineral Wool |
| 331 | Primary Metals |
| 331111 | Iron and Steel Mills |
| 331112 | Electrometallurgical Ferroalloy Products |
| 3312 | Steel Products from Purchased Steel |
| 33313 | Alumina and Aluminum |
| 331314 | Secondary Smelting and Alloying of Aluminum |
| 331315 | Aluminum Sheet, Plate and Foils |
| 331316 | Aluminum Extruded Products |
| 3314 | Nonferrous Metals, except Aluminum |
| 3315 | Foundries |
| 331511 | Iron Foundries |
| 331521 | Aluminum Die-Casting Foundries |
| 331524 | Aluminum Foundries, except Die-Casting |
| 332 | Fabricated Metal Products |
| 333 | Machinery |
| 334 | Computer and Electronic Products |
| 334413 | Semiconductors and Related Devices |
|  |  |


| Residual Fuel Oil |  |  | Alternative Energy Sources(b) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Consumed(c) | Switchable | Not Switchable | Electricity Receipts(d) | Natural Gas | Distillate Fuel Oil | Coal | LPG | Coal Coke and Breeze | Other(e) |
| 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 |
| 59 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 959 | 516 | 443 | 126 | 490 | 25 | 126 | 0 | 0 | 26 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 732 | 327 | 405 | 126 | 301 | 25 | 126 | 0 | 0 | 26 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 161 | 123 | 38 | 0 | 123 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 252 | 129 | 94 | 0 | 129 | 0 | 0 | 0 | 0 | 0 |
| 223 | 129 | 94 | 0 | 129 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 105 | 0 | 0 | 20 | 85 | 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 |
| 20 | 20 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 |
| 85 | 85 | 0 | 0 | 0 | 85 | 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 | 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 | 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 |
| 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 |
| 2,465 | 0 | 530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2,465 | 0 | 530 | 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 |
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| 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 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


|  |  | Residual Fuel Oil |  |  | Alternative Energy Sources(b) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS Code(a) | Subsector and Industry | $\begin{gathered} \text { Total } \\ \text { Consumed(c) } \end{gathered}$ | Switchable | $\begin{gathered} \text { Not } \\ \text { Switchable } \end{gathered}$ | Electricity Receipts(d) | Natural Gas | Distillate Fuel Oil | Coal | LPG |  | Coal Coke and Breeze | Other(e) |
| 335 | Electrical Equip., Appliances, and Components | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 |
| 336 | Transportation Equipment | Q | Q | Q | 0 | Q | 0 | 0 |  | 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 | 0 | 0 |
| 3364 | Aerospace Product and Parts | 43 | 43 | 0 | 0 | 43 | 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 | Q | Q | 0 | 0 | Q | 0 | 0 |  | 0 | 0 | 0 |
|  | Total | 5,950 | 2,467 | 1,370 | 126 | 2,266 | 217 | 126 |  | Q | 0 | 26 |

## South Census Region

| 311 | Food |
| :---: | :---: |
| 3112 | Grain and Oilseed Milling |
| 311221 | Wet Corn Milling |
| 31131 | Sugar Manufacturing |
| 3114 | Fruit and Vegetable Preserving and Specialty Foods |
| 3115 | Dairy Products |
| 3116 | Animal Slaughtering and Processing |
| 312 | Beverage and Tobacco Products |
| 3121 | Beverages |
| 3122 | Tobacco |
| 313 | Textile Mills |
| 314 | Textile Product Mills |
| 315 | Apparel |
| 316 | Leather and Allied Products |
| 321 | Wood Products |
| 321113 | Sawmills |
| 3212 | Veneer, Plywood, and Engineered Woods |
| 3219 | Other Wood Products |
| 322 | Paper |
| 322110 | Pulp Mills |
| 322121 | Paper Mills, except Newsprint |
| 322122 | Newsprint Mills |
| 322130 | Paperboard Mills |
| 323 | Printing and Related Support |
| 324 | Petroleum and Coal Products |
| 324110 | Petroleum Refineries |
| 324199 | Other Petroleum and Coal Products |
| 325 | Chemicals |
| 325110 | Petrochemicals |
| 325120 | Industrial Gases |
| 325181 | Alkalies and Chlorine |
| 325182 | Carbon Black |
| 325188 | Other Basic Inorganic Chemicals |
| 325192 | Cyclic Crudes and Intermediates |
| 325193 | Ethyl Alcohol |
| 325199 | Other Basic Organic Chemicals |
| 325211 | Plastics Materials and Resins |
| 325212 | Synthetic Rubber |
| 325222 | Noncellulosic Organic Fibers |
| 325311 | Nitrogenous Fertilizers |
| 325312 | Phosphatic Fertilizers |
| 3254 | Pharmaceuticals and Medicines |
| 325412 | Pharmaceutical Preparation |
| 325992 | Photographic Film, Paper, Plate, and Chemicals |
| 326 | Plastics and Rubber Products |
| 327 | Nonmetallic Mineral Products |
| 327211 | Flat Glass |
| 327212 | Other Pressed and Blown Glass and Glassware |
| 327213 | Glass Containers |



West Census Region

| 311 | Food |
| :--- | :--- |
| 3112 | Grain and Oilseed Milling |
| 311221 | Wet Corn Milling |
| 31131 | Sugar Manufacturing |
| 3114 | Fruit and Vegetable Preserving and Specialty Foods |
| 3115 | Dairy Products |
| 3116 | Animal Slaughtering and Processing |
| 312 | Beverage and Tobacco Products |
| 3121 | Beverages |
| 3122 | Tobacco |
| 313 | Textile Mills |
| 314 | Textile Product Mills |
| 315 | Apparel |
| 316 | Leather and Allied Products |
| 321 | Wood Products |
| 321113 | Sawmills |
| 3221 | Veneer, Plywood, and Engineered Woods |
| 3219 | Other Wood Products |
| 322 | Paper |
| 322110 | Pulp Mills |
| 322121 | Paper Mills, except Newsprint |
| 322122 | Newsprint Mills |
| 322130 | Paperboard Mills |
| 323 | Printing and Related Support |
| 324 | Petroleum and Coal Products |

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```
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Source
Unit: Thousand Barrels.
```

| NAICS Code(a) | Subsector and Industry | Residual Fuel Oil |  |  | Alternative Energy Sources(b) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total Consumed(c) | Switchable | Not Switchable | Electricity Receipts(d) | Natural Gas | Distillate Fuel Oil | Coal |  | LPG | Coal Coke and Breeze | Other(e) |
| 324110 | Petroleum Refineries | 1,055 | 666 | 285 | 0 | 65 | 403 |  | 0 | 217 | 0 | 19 |
| 324199 | Other Petroleum and Coal Products | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 325 | Chemicals | 26 | 0 | 26 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 325110 | Petrochemicals | 0 | 0 | 0 | 0 | 0 | , |  | 0 | 0 | 0 | 0 |
| 325120 | Industrial Gases | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 325181 | Alkalies and Chlorine | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 325182 | Carbon Black | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 325188 | Other Basic Inorganic Chemicals | 26 | 0 | 26 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 325192 | Cyclic Crudes and Intermediates | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 325193 | Ethyl Alcohol | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 325199 | Other Basic Organic Chemicals | 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 |
| 325222 | Noncellulosic Organic Fibers | 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, and Chemicals | 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 | 276 | 276 | 0 | 0 | 58 | 218 |  | 0 | 0 | 0 | 0 |
| 327211 | Flat Glass | 218 | 218 | 0 | 0 | 0 | 218 |  | 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 | 58 | 58 | 0 | 0 | 58 | 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 |
| 331111 | Iron and Steel Mills | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 331112 | Electrometallurgical Ferroalloy Products | 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 | 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 |
| 331316 | Aluminum Extruded Products | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 3314 | Nonferrous Metals, except Aluminum | 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 |
| 331521 | Aluminum 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 |
| 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 | 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 | 2,894 | 1,848 | 800 | 0 | 865 | 1,138 |  | 0 | 305 | 0 | 35 |

Economic Characteristic (f)

| Residual Fuel Oil |  |  | Alternative Energy Sources(b) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Total } \\ \text { Consumed(c) } \end{gathered}$ | Switchable | $\begin{gathered} \text { Not } \\ \text { Switchable } \end{gathered}$ | Electricity Receipts(d) | Natural Gas | Distillate <br> Fuel Oil | Coal | LPG |  | Other(e) |


| Value of Shipments and Receipts (million dollars) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Under 20 | 3,619 | 2,568 | 946 | * | 1,682 | 1,203 | 0 | * | 0 | Q |
| 20-49 | 2,090 | 968 | 887 | * | 569 | 408 | * | Q | 35 | 0 |
| 50-99 | 3,470 | 1,963 | 1,198 | 0 | 1,524 | 477 | 5 | 0 | 0 | 2 |
| 100-249 | 4,031 | 1,201 | 2,427 | 62 | 862 | 395 | 62 | 64 | 0 | 45 |
| 250-499 | 8,364 | 2,697 | 3,992 | 0 | 2,227 | 602 | 482 | 0 | 0 | 0 |
| 500 and Over | 18,351 | 5,353 | 3,833 | 789 | 3,796 | 971 | 132 | 404 | 0 | 70 |
| Total | 39,925 | 14,750 | 13,283 | 851 | 10,660 | 4,057 | 681 | 645 | 35 | 239 |
| Employment Size |  |  |  |  |  |  |  |  |  |  |
| Under 50 | 1,552 | 1,176 | 105 | * | 296 | 928 | 0 | Q | 0 | Q |
| 50-99 | 2,953 | 1,868 | 1,070 | 0 | 1,681 | 481 | * | 0 | 35 | Q |
| 100-249 | 5,984 | 3,286 | 2,086 | * | 2,109 | 1,078 | 5 | 286 | 0 | 16 |
| 250-499 | 7,029 | 2,169 | 3,131 | 1 | 1,554 | 641 | 17 | 19 | 0 | 51 |
| 500-999 | 9,139 | 3,663 | 4,599 | 724 | 2,473 | 851 | 532 | 249 | 0 | 0 |
| 1000 and Over | 13,269 | 2,588 | 2,292 | 126 | 2,548 | 77 | 126 | 0 | 0 | 50 |
| Total | 39,925 | 14,750 | 13,283 | 851 | 10,660 | 4,057 | 681 | 645 | 35 | 239 |

(a) The Bureau of the Census classifies establishments using the North American dustry Classification System (NAICS)
(b) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for residual fuel oil during 2006. The quantities are 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' represents those quantities of electricity
onsumption. 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
ansferred out. The estimates include those quantities that were ascertained
wwitching status was not ascertained.
(e) 'Other' includes all other types of energy not already identified that
espondents indicated could have been consumed in place of residual fuel oil. (f) Value of Shipments and Receipts and Employment Size categories were upplied by the Bureau of the Census.
NF=No applicable RSE ro

* Estimate less than 0.5 .
$\mathrm{W}=$ Withheld to avoid disclosing data for individual establishments.
$\mathrm{Q}=$ Withheld because Relative Standard Error is greater than 50 percent.
$\mathrm{NA}=\mathrm{Not}$ available.
Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of omponents because of independent rounding

竍 data files for the '2006 Annual Survey of Manufacturers.'
$\qquad$
RSE Table 10.4 Relative Standard Errors for Table 10.4; Unit: Percents.

| NAICS Code(a) | Subsector and Industry | Residual Fuel Oil |  |  | Alternative Energy Sources(b) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { Total } \\ \text { Consumed(c) } \end{gathered}$ | Switchable | $\begin{gathered} \text { Not } \\ \text { Switchable } \end{gathered}$ | Electricity Receipts(d) | Natural | Distillate <br> Fuel Oil | Coal | LPG | Coal Coke and Breeze | Other(e) |
| Total United States |  |  |  |  |  |  |  |  |  |  |  |
| 311 | Food | 21.5 | 40.8 | 24.6 | $x$ | 45.6 | 33.8 | X | 58.0 | X | 95.1 |
| 3112 | Grain and Oilseed Milling | 19.1 | 23.8 | 16.1 | x | 23.8 | 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 | 0.0 | 0.0 | x | 0.0 | 0.0 | x | x | x | x |
| 3114 | Fruit and Vegetable Preserving and Specialty Foods | 14.7 | 23.1 | 0.0 | x | 38.0 | 14.7 | x | 62.9 | x | x |
| 3115 | Dairy Products | 45.7 | 71.4 | 51.1 | x | 57.7 | 88.4 | x | 95.9 | x | x |
| 3116 | Animal Slaughtering and Processing | 23.1 | 28.1 | 48.5 | x | 28.5 | x | x | x | x | 95.1 |
| 312 | Beverage and Tobacco Products | 0.4 | 0.6 | 0.0 | x | 0.6 | 0.0 | x | x | X | X |
| 3121 | Beverages | 0.6 | 0.8 | 0.0 | x | 0.8 | x | x | x | x | x |
| 3122 | Tobacco | 0.0 | 0.0 | 0.0 | x | 0.0 | 0.0 | x | x | x | x |
| 313 | Textile Mills | 37.5 | 45.4 | 45.8 | x | 45.4 | x | x | x | x | x |
| 314 | Textile Product Mills | 60.2 | 28.9 | 83.6 | x | 29.9 | 78.4 | x | x | x | x |
| 315 | Apparel | 84.0 | X | X | x | x | X | x | x | x | x |
| 316 | Leather and Allied Products | 0.0 | x | 0.0 | x | x | x | x | x | x | x |
| 321 | Wood Products | 13.0 | 16.6 | 28.5 | x | 0.0 | 16.6 | x | x | x | 97.6 |
| 321113 | Sawmills | 34.9 | x | 34.9 | x | x | x | x | x | x | x |
| 3212 | Veneer, Plywood, and Engineered Woods | 41.6 | x | 44.9 | x | x | x | x | x | x | x |
| 3219 | Other Wood Products | 97.4 | 97.6 | X | X | x | 97.6 | X | X | X | 97.6 |
| 322 | Paper | 0.5 | 0.1 | 0.3 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | X | 0.0 |
| 322110 | Pulp Mills | 0.0 | 0.0 | 0.0 | x | 0.0 | 0.0 | x | 0.0 | x | 0.0 |
| 322121 | Paper Mills, except Newsprint | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | x | 0.0 |
| 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 | 0.0 | x | x | 0.0 |
| 323 | Printing and Related Support | 98.1 | x | 98.1 | x | x | x | x | x | x | x |
| 324 | Petroleum and Coal Products | 5.6 | 24.1 | 0.0 | x | 0.0 | 33.2 | x | 0.0 | x | 0.0 |
| 324110 | Petroleum Refineries | 0.0 | 0.0 | 0.0 | x | 0.0 | 0.0 | x | 0.0 | x | 0.0 |
| 324199 | Other Petroleum and Coal Products | x | x | X | x | x | x | x | x | x | x |
| 325 | Chemicals | 8.8 | 10.2 | 13.5 | x | 11.5 | 2.3 | 0.0 | x | x | x |
| 325110 | Petrochemicals | 0.0 | 0.0 | 0.0 | x | 0.0 | $\times$ | x | x | x | x |
| 325120 | Industrial Gases | x | x | X | x | x | x | x | x | x | x |
| 325181 | Alkalies and Chlorine | x | x | x | x | x | x | x | x | x | x |
| 325182 | Carbon Black | 0.0 | 0.0 | x | x | 0.0 | x | x | x | x | $x$ |
| 325188 | Other Basic Inorganic Chemicals | 14.3 | 4.8 | 31.8 | x | 4.8 | x | x | x | x | x |
| 325192 | Cyclic Crudes and Intermediates | 0.0 | 0.0 | 0.0 | x | x | 0.0 | x | x | x | x |
| 325193 | Ethyl Alcohol | x | x | x | x | x | x | x | x | x | x |
| 325199 | Other Basic Organic Chemicals | 10.0 | 5.7 | 10.8 | x | 8.4 | 14.3 | x | x | x | x |
| 325211 | Plastics Materials and Resins | 0.0 | 0.0 | X | x | 0.0 | x | x | x | x | x |
| 325212 | Synthetic Rubber | 0.0 | 0.0 | X | x | 0.0 | 0.0 | x | X | x | x |
| 325222 | Noncellulosic Organic Fibers | 0.0 | 0.0 | x | x | 0.0 | 0.0 | 0.0 | x | x | x |
| 325311 | Nitrogenous Fertilizers | x | x | X | 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 | 9.4 | 39.1 | 0.0 | x | 39.1 | 0.0 | x | x | x | x |
| 325412 | Pharmaceutical Preparation | 9.4 | 39.1 | 0.0 | X | 39.1 | 0.0 | X | X | x | X |
| 325992 | Photographic Film, Paper, Plate, and Chemicals | 0.0 | 0.0 | 0.0 | x | 0.0 | x | x | x | x | x |
| 326 | Plastics and Rubber Products | 33.5 | 38.6 | 77.7 | x | 40.1 | 83.6 | x | x | x | x |
| 327 | Nonmetallic Mineral Products | 10.7 | 12.2 | 22.5 | 85.6 | 36.1 | 0.0 | 0.0 | 85.6 | 0.0 | x |
| 327211 | Flat Glass | 0.0 | 0.0 | X | x | x | 0.0 | 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 | 0.1 | 0.2 | 0.0 | 85.6 | 0.5 | x | 0.0 | 85.6 | 0.0 | x |
| 327410 | Lime | 0.0 | 0.0 | X | x | 0.0 | 0.0 | x | x | x | $x$ |
| 327420 | Gypsum | 0.0 | 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 | 0.1 | 0.0 | 0.3 | x | 0.0 | x | x | x | x | x |
| 331111 | Iron and Steel Mills | 0.0 | 0.0 | 0.0 | x | 0.0 | x | x | x | x | x |
| 331112 | Electrometallurgical Ferroalloy Products | x | X | X | x | x | X | X | x | X | x |
| 3312 | Steel Products from Purchased Steel | x | X | X | X | X | X | X | X | X | X |
| 3313 | Alumina and Aluminum | 0.0 | 0.0 | X | x | 0.0 | x | x | x | x | x |
| 331314 | Secondary Smelting and Alloying of Aluminum | 0.0 | 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 |
| 331316 | Aluminum Extruded Products | 0.0 | 0.0 | X | x | 0.0 | x | x | x | x | x |
| 3314 | Nonferrous Metals, except Aluminum | 0.0 | 0.0 | 0.0 | x | 0.0 | x | x | x | x | x |
| 3315 | Foundries | 92.5 | x | 95.2 | x | $x$ | x | x | x | x | x |


| 331511 | Iron Foundries | 0.0 | $x$ | x | x | $x$ | $x$ | x | $x$ | x | x |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 331521 | Aluminum Die-Casting Foundries | x | x | x | x | x | x | x | x | x | x |
| 331524 | Aluminum Foundries, except Die-Casting | 95.2 | x | 95.2 | x | x | x | x | x | x | x |
| 332 | Fabricated Metal Products | 68.1 | x | 68.3 | x | x | x | x | x | x | x |
| 333 | Machinery | 97.4 | 97.4 | X | X | 97.4 | X | x | X | X | x |
| 334 | Computer and Electronic Products | 41.1 | 40.3 | 51.8 | X | 40.3 | 75.7 | x | X | X | X |
| 334413 | Semiconductors and Related Devices | 0.0 | x | 0.0 | x | $\times$ | x | x | x | x | x |
| 335 | Electrical Equip., Appliances, and Components | x | X | X | X | X | x | x | X | x | x |
| 336 | Transportation Equipment | 8.7 | 14.4 | 34.0 | x | 14.4 | x | x | x | $\times$ | x |
| 336111 | Automobiles | 0.0 | 0.0 | 0.0 | X | 0.0 | x | x | X | X | x |
| 336112 | Light Trucks and Utility Vehicles | 0.0 | 0.0 | x | X | 0.0 | x | x | x | X | x |
| 3364 | Aerospace Product and Parts | 0.1 | 0.0 | 0.6 | x | 0.0 | x | x | $\times$ | x | x |
| 336411 | Aircraft | 0.0 | x | 0.0 | x | x | x | x | x | x | x |
| 337 | Furniture and Related Products | 98.6 | 98.8 | 98.8 | x | x | 98.8 | x | x | x | x |
| 339 | Miscellaneous | 94.3 | 94.4 | 99.2 | x | 82.7 | 97.4 | x | X | x | X |
|  | Total | 3.1 | 7.8 | 3.2 | 0.1 | 9.4 | 14.3 | 0.0 | 15.9 | 0.0 | 35.6 |
| Northeast Census Region |  |  |  |  |  |  |  |  |  |  |  |
| 311 | Food | 20.5 | 24.3 | 41.1 | x | 32.5 | 22.9 | 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 | x | x | x | x | X | x | x | x | x | x |
| 3114 | Fruit and Vegetable Preserving and Specialty Foods | 14.4 | 14.4 | X | X | 50.0 | 14.7 | x | X | X | X |
| 3115 | Dairy Products | 47.1 | 57.7 | 73.8 | X | 57.7 | 64.4 | x | X | X | X |
| 3116 | Animal Slaughtering and Processing | x | x | x | x | X | x | x | X | x | x |
| 312 | Beverage and Tobacco Products | 1.2 | 2.4 | 0.0 | x | 2.4 | x | x | x | x | x |
| 3121 | Beverages | 2.1 | 3.3 | 0.0 | x | 3.3 | x | x | x | x | x |
| 3122 | Tobacco | 0.0 | 0.0 | 0.0 | X | 0.0 | x | x | X | X | x |
| 313 | Textile Mills | 45.7 | 70.0 | 47.2 | X | 70.0 | 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 | 0.0 | x | 0.0 | x | x | x | x | x | x | x |
| 321 | Wood Products | 57.8 | X | 66.1 | X | X | x | x | X | X | X |
| 321113 | Sawmills | 66.1 | x | 66.1 | x | x | x | x | x | x | x |
| 3212 | Veneer, Plywood, and Engineered Woods | X | x | x | x | X | x | x | X | x | X |
| 3219 | Other Wood Products | x | x | x | x | X | x | x | x | x | x |
| 322 | Paper | 1.8 | 0.4 | 0.8 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 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 | 0.0 | 0.0 | 0.0 | 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 | x | 0.0 | x | x | x | x | x |
| 323 | Printing and Related Support | 98.1 | X | 98.1 | x | X | x | x | X | X | x |
| 324 | Petroleum and Coal Products | 27.1 | 51.5 | 0.0 | X | 0.0 | 64.1 | x | 0.0 | X | X |
| 324110 | Petroleum Refineries | 0.0 | 0.0 | 0.0 | x | 0.0 | 0.0 | x | 0.0 | x | x |
| 324199 | Other Petroleum and Coal Products | x | x | x | x | x | x | x | x | x | x |
| 325 | Chemicals | 16.7 | 19.4 | 2.1 | x | 20.4 | 0.0 | x | x | x | x |
| 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 |
| 325181 | Alkalies and Chlorine | x | x | x | x | x | x | x | x | x | x |
| 325182 | Carbon Black | x | x | x | x | x | x | x | x | x | x |
| 325188 | Other Basic Inorganic Chemicals | 0.0 | 0.0 | 0.0 | x | 0.0 | x | x | $\times$ | x | $\times$ |
| 325192 | Cyclic Crudes and Intermediates | X | x | x | X | X | x | X | X | X | X |
| 325193 | Ethyl Alcohol | X | X | X | X | X | X | X | X | X | X |
| 325199 | Other Basic Organic Chemicals | 8.1 | 0.0 | 26.2 | x | 0.0 | 0.0 | x | x | x | x |
| 325211 | Plastics Materials and Resins | 0.0 | 0.0 | x | x | 0.0 | x | x | x | x | x |
| 325212 | Synthetic Rubber | x | x | x | x | x | x | x | x | x | x |
| 325222 | Noncellulosic Organic Fibers | 0.0 | 0.0 | X | X | 0.0 | x | X | X | X | X |
| 325311 | Nitrogenous Fertilizers | X | x | x | X | X | X | X | X | X | X |
| 325312 | Phosphatic Fertilizers | x | X | x | X | x | X | x | X | X | x |
| 3254 | Pharmaceuticals and Medicines | 10.6 | 76.9 | 0.0 | x | 76.9 | x | x | x | x | x |
| 325412 | Pharmaceutical Preparation | 10.7 | 76.9 | 0.0 | x | 76.9 | x | x | x | x | $\times$ |
| 325992 | Photographic Film, Paper, Plate, and Chemicals | 0.0 | 0.0 | 0.0 | x | 0.0 | x | X | X | x | x |
| 326 | Plastics and Rubber Products | 74.4 | 92.9 | 97.4 | X | 92.9 | x | X | X | X | X |
| 327 | Nonmetallic Mineral Products | 25.8 | 55.5 | 22.5 | x | 97.4 | 0.0 | x | x | 0.0 | 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 | 0.0 | 0.0 | 0.0 | X | X | X | x | X | 0.0 | X |
| 327410 | Lime | 0.0 | 0.0 | x | x | x | 0.0 | x | x | x | x |
| 327420 | Gypsum | 0.0 | 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 | 3.2 | 0.0 | 33.0 | x | 0.0 | x | $\times$ | x | x | x |
| 331111 | Iron and Steel Mills | x | x | x | x | X | x | x | X | x | x |
| 331112 | Electrometallurgical Ferroalloy Products | x | x | x | x | X | x | x | X | x | x |
| 3312 | Steel Products from Purchased Steel | x | x | x | x | x | x | x | x | x | x |
| 3313 | Alumina and Aluminum | 0.0 | 0.0 | x | x | 0.0 | x | x | X | x | x |


| 331314 | Secondary Smelting and Alloying of Aluminum |
| :---: | :--- |
| 331315 | Aluminum Sheet, Plate and Foils |
| 331316 | Aluminum Extruded Products |
| 3314 | Nonferrous Metals, except Aluminum |
| 3315 | Foundries |
| 331511 | lron Foundries |
| 331521 | Aluminum Die-Casting Foundries |
| 331524 | Aluminum Foundries, except Die-Casting |
| 332 | Fabricated Metal Products |
| 333 | Machinery |
| 334 | Computer and Electronic Products |
| 334413 | Semiconductors and Related Devices |
| 335 | Electrical Equip., Appliances, and Components |
| 336 | Transportation Equipment |
| 336111 | Autombilies |
| 336112 | Light Trucks and Utility Vehicles |
| 3364 | Aerospace Product and Parts |
| 336411 | Aurraft |
| 337 | Furniture and Related Products |
| 339 | Miscellaneous |
|  | Total |


| 0.0 | $X$ | $X$ |
| ---: | ---: | ---: |
| $X$ | $X$ | $X$ |
| 0.0 | 0.0 | $X$ |
| 0.0 | 0.0 | 0.0 |
| 92.5 | $X$ | 95.2 |
| 0.0 | $X$ | $X$ |
| $X$ | $X$ | $X$ |
| 95.2 | $X$ | 95.2 |
| 0.0 | $X$ | 0.0 |
| 97.4 | 97.4 | $X$ |
| 41.1 | 40.3 | 51.8 |
| 0.0 | $X$ | 0.0 |
| $X$ | $X$ | $X$ |
| 0.2 | 0.0 | 0.7 |
| $X$ | $X$ | $X$ |
| $X$ | $X$ | $X$ |
| 0.2 | 0.0 | 0.6 |
| $X$ | $X$ | $X$ |
| 98.6 | 98.8 | 98.8 |
| 97.4 | 97.4 | 99.2 |
| 7.0 | 13.8 | 2.9 |

> X
x
x
X
X
X
x
x
X
X
75.7
X
X
X
x
X
X
X
98.8
97.4
38.8




Midwest Census Region

| 311 | Food |
| :---: | :---: |
| 3112 | Grain and Oilseed Milling |
| 311221 | Wet Corn Milling |
| 31131 | Sugar Manufacturing |
| 3114 | Fruit and Vegetable Preserving and Specialty Foods |
| 3115 | Dairy Products |
| 3116 | Animal Slaughtering and Processing |
| 312 | Beverage and Tobacco Products |
| 3121 | Beverages |
| 3122 | Tobacco |
| 313 | Textile Mills |
| 314 | Textile Product Mills |
| 315 | Apparel |
| 316 | Leather and Allied Products |
| 321 | Wood Products |
| 321113 | Sawmills |
| 3212 | Veneer, Plywood, and Engineered Woods |
| 3219 | Other Wood Products |
| 322 | Paper |
| 322110 | Pulp Mills |
| 322121 | Paper Mills, except Newsprint |
| 322122 | Newsprint Mills |
| 322130 | Paperboard Mills |
| 323 | Printing and Related Support |
| 324 | Petroleum and Coal Products |
| 324110 | Petroleum Refineries |
| 324199 | Other Petroleum and Coal Products |
| 325 | Chemicals |
| 325110 | Petrochemicals |
| 325120 | Industrial Gases |
| 325181 | Alkalies and Chlorine |
| 325182 | Carbon Black |
| 325188 | Other Basic Inorganic Chemicals |
| 325192 | Cyclic Crudes and Intermediates |
| 325193 | Ethyl Alcohol |
| 325199 | Other Basic Organic Chemicals |
| 325211 | Plastics Materials and Resins |
| 325212 | Synthetic Rubber |
| 325222 | Noncellulosic Organic Fibers |
| 325311 | Nitrogenous Fertilizers |
| 325312 | Phosphatic Fertilizers |
| 3254 | Pharmaceuticals and Medicines |
| 325412 | Pharmaceutical Preparation |
| 325992 | Photographic Film, Paper, Plate, and Chemicals |
| 326 | Plastics and Rubber Products |
| 327 | Nonmetallic Mineral Products |
| 327211 | Flat Glass |
| 327212 | Other Pressed and Blown Glass and Glassware |
| 327213 | Glass Containers |
| 327215 | Glass Products from Purchased Glass |
| 327310 | Cements |
| 327410 | Lime |
| 327420 | Gypsum |
| 327993 | Mineral Wool |


| 331 | Primary Metals |
| :--- | :--- |
| 331111 | Iron and Steel Mills |
| 331112 | Electrometallurgical Ferroalloy Products |
| 3312 | Steel Products from Purchased Steel |
| 3313 | Alumina and Aluminum |
| 331314 | Secondary Smelting and Alloying of Aluminum |
| 331315 | Aluminum Sheet, Plate and Foils |
| 331316 | Aluminum Extruded Products |
| 3314 | Nonferrous Metals, except Aluminum |
| 3315 | Foundries |
| 331511 | Iron Foundries |
| 331521 | Aluminum Die-Casting Foundries |
| 331524 | Aluminum Foundries, except Die-Casting |
| 332 | Fabricated Metal Products |
| 333 | Machinery |
| 334 | Computer and Electronic Products |
| 334413 | Semiconductors and Related Devices |
| 335 | Electrical Equip., Appliances, and Components |
| 336 | Transportation Equipment |
| 336111 | Automobiles |
| 336112 | Light Trucks and Utility Vehicles |
| 3364 | Aerospace Product and Parts |
| 336411 | Aurraft |
| 337 | Furniture and Related Products |
| 339 | Miscellaneous |
|  | Total |


| 0.0 | $x$ | 0.0 |
| :---: | :---: | :---: |
| 0.0 | x | 0.0 |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | X | x |
| X | X | X |
| x | x | $\times$ |
| x | x | x |
| x | x | x |
| x | X | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| 50.9 | 56.4 | 97.3 |
| 0.0 | x | 0.0 |
| x | x | x |
| 0.0 | 0.0 | x |
| x | x | x |
| x | x | x |
| 82.7 | 82.7 | x |
| 14.6 | 35.0 | 7.7 |


| $x$ | $x$ | $x$ |
| :---: | :---: | :---: |
| x | x | x |
| x | x | x |
| x | x | $x$ |
| x | x | x |
| x | x | x |
| x | x | x |
| x | $\times$ | $x$ |
| x | X | X |
| x | x | x |
| x | x | x |
| x | x | $x$ |
| x | $\times$ | $x$ |
| x | x | $x$ |
| x | x | x |
| X | X | X |
| x | x | x |
| x | x | x |
| x | 56.4 | x |
| x | x | $x$ |
| x | x | x |
| x | 0.0 | x |
| x | x | x |
| x | x | x |
| x | 82.7 | x |
| 0.0 | 37.9 | 40.2 |


$X$
0.0
X
95.9
$X$
0.0
South Census Regio
Food
Grain and Oilseed Milling
Wet Corn Milling
Sugar Manufacturing
Fruit and Vegetable Preserving and Specialty Foods
Dairy Products
Animal Slaughtering and Processing
Beverage and Tobacco Products
Beverages
Tobacco
Textile Mills
Textile Product Mills
Apparel
Leather and Allied Products
Wood Products
Sawwills
Veneer, Plywood, and Engineered Woods
Other Wood Products
Paper
Pulp Mills
Paper Mills, except Newsprint
Newsprint Mills
Paperboard Mills
Printing and Related Support
Petroleum and Coal Products
Petroleum Refineries
Other Petroleum and Coal Products
Chemicals
Petrochemicals
Industrial Gases
Alkalies and Chlorine
Carbon Black
Other Basic Inorganic Chemicals
Cyclic Crudes and Intermediates
Ethyl Alcohol
Other Basic Organic Chemicals
Plastics Materials and Resins
Synthetic Rubber
Noncellulosic Organic Fibers
Nitrogenous Fertrilizers
Phosphatic Fertiizers
Pharmaceuticals and Medicines
Pharmaceutical Preparation
Photographic Film, Paper, Plate, and Chemicals
Plastics and Rubber Products
Nonmetallic Mineral Products
Flat Glass
Other Pressed and Blown Glass and Glassware
Glass Containers
$\begin{array}{r}56.7 \\ 24.3 \\ \mathrm{X} \\ \mathrm{X} \\ \mathrm{X} \\ \mathrm{X} \\ 78.1 \\ 0.0 \\ 0.0 \\ 0.0 \\ 45.4 \\ 29.9 \\ \mathrm{X} \\ \mathrm{x} \\ \mathrm{X} \\ \mathrm{X} \\ \mathrm{X} \\ \mathrm{X} \\ 0.0 \\ 0.0 \\ 0.0 \\ \mathrm{X} \\ 0.0 \\ \mathrm{X} \\ 0.0 \\ 0.0 \\ \mathrm{X} \\ 4.9 \\ 0.0 \\ \mathrm{X} \\ \mathrm{X} \\ \hline 0.0 \\ 62.8 \\ \mathrm{X} \\ \mathrm{X} \\ \hline 8.5 \\ 0.0 \\ 0.0 \\ 0.0 \\ \mathrm{X} \\ \mathrm{X} \\ \hline 0.0 \\ 0.0 \\ \mathrm{X} \\ 44.4 \\ 0.5 \\ \mathrm{X} \\ \mathrm{x} \\ \mathrm{X} \\ \hline\end{array}$




| 327215 | Glass Products from Purchased Glass |
| :---: | :--- |
| 327310 | Cements |
| 327410 | Lime |
| 327420 | Gypsum |
| 327993 | Mineral Wool |
| 331 | Primary Metals |
| 331111 | Iron and Steel Mills |
| 331112 | Electrometallurgical Ferroalloy Products |
| 3312 | Steel Products from Purchased Steel |
| 3313 | Alumina and Aluminum |
| 331314 | Secondary Smelting and Alloying of Aluminum |
| 331315 | Aluminum Sheet, Plate and Foils |
| 331316 | Aluminum Extruded Products |
| 3314 | Nonferrous Metals, except Aluminum |
| 3315 | Foundries |
| 331511 | Iron Foundries |
| 331521 | Aluminum Die-Casting Foundries |
| 33524 | Aluminum Foundries, except Die-Casting |
| 332 | Fabricated Metal Products |
| 333 | Machinery |
| 334 | Computer and Electronic Products |
| 334413 | Semiconductors and Related Devices |
| 335 | Electrical Equip., Appliances, and Components |
| 336 | Transportation Equipment |
| 336111 | Automobiles |
| 336112 | Light Trucks and Utility Vehicles |
| 3364 | Aerospace Product and Parts |
| 336411 | Aircraft |
| 337 | Furniture and Related Products |
| 339 | Miscellaneous |
|  | Total |



| x | $x$ |
| :---: | :---: |
| 0.5 | x |
| x | x |
| x | x |
| x | x |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| x | X |
| X | X |
| x | x |
| x | x |
| x | X |
| X | X |
| x | x |
| x | x |
| x | X |
| X | X |
| x | x |
| x | 99.0 |
| x | x |
| x | X |
| x | X |
| x | x |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| 0.0 | X |
| x | 0.0 |
| x | 0.0 |
| x | x |
| $\times$ | x |
| 6.1 | 5.8 |


| x | $x$ | $x$ |
| :---: | :---: | :---: |
| 85.6 | 0.5 | $x$ |
| x | x | x |
| x | x | x |
| X | X | X |
| X | 0.0 | x |
| x | 0.0 | x |
| x | x | x |
| x | x | $x$ |
| X | X | x |
| x | x | x |
| X | X | X |
| x | x | x |
| x | X | X |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| X | X | X |
| x | x | x |
| X | x | X |
| x | x | x |
| X | 0.0 | X |
| X | 0.0 | X |
| X | 0.0 | X |
| x | x | x |
| x | x | x |
| X | X | X |
| X | X | X |
| 16.2 | 5.6 | 16.0 |




| 311 | Food |
| :--- | :--- |
| 3112 | Grain and Oilseed Milling |
| 311221 | Wet Corn Milling |
| 31131 | Sugar Manufacturing |
| 3114 | Fruit and Vegetable Preserving and Specialty Foods |
| 3115 | Dairy Products |
| 3116 | Animal ISaughtering and Processing |
| 312 | Beverage and Tobacco Products |
| 3121 | Beverages |
| 3122 | Tobacco |
| 313 | Textile Mills |
| 314 | Textile Product Mills |
| 315 | Apparel |
| 316 | Leather and Allied Products |
| 321 | Wood Products |
| 321113 | Sawmills |
| 3212 | Veneer, Plywood, and Engineered Woods |
| 3219 | Other Wood Products |
| 322 | Paper |
| 322110 | Pulp Mills |
| 322121 | Paper Mills, except Newsprint |
| 322122 | Newsprint Mills |
| 322130 | Paperboard Mills |
| 323 | Printing and Related Support |
| 324 | Petroleum and Coal Products |
| 324110 | Petroleum Refineries |
| 324199 | Other Petroleum and Coal Products |
| 325 | Chemicals |
| 325110 | Petrochemicals |
| 325120 | Industrial Gases |
| 325181 | Alkalies and Chlorine |
| 325182 | Carbon Black |
| 325188 | Other Basic Inorganic Chemicals |
| 325192 | Cyclic Crudes and Intermediates |
| 325193 | Ethyl Alcohol |
| 325199 | Other Basic Organic Chemicals |
| 325211 | Plastics Materials and Resins |
| 325212 | Synthetic Rubber |
| 325222 | Noncellulosic Organic Fibers |
| 325311 | Nitrogenous Fertilizers |
| 325312 | Phosphatic Fertilizers |
| 3254 | Pharmaceutitcals and Medicines |
| 325412 | Pharmaceutital I Preparation |
| 325992 | Photographic Film, Paper, Plate, and Chemicals |
|  |  |

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$\times \times \times \times \times \times \times \times \times \times \times \times \times \times \times \times \times \circ \stackrel{\sim}{\circ} \stackrel{\sim}{\circ} \times \times \times \times \times \times \times \times \times \stackrel{\circ}{\circ} \times \times \times \times \times \times \times \times \times \times \times \times \times \times$
$\times \stackrel{9}{0}$

| 326 | Plastics and Rubber Products |
| :---: | :---: |
| 327 | Nonmetallic Mineral Products |
| 327211 | Flat Glass |
| 327212 | Other Pressed and Blown Glass and Glassware |
| 327213 | Glass Containers |
| 327215 | Glass Products from Purchased Glass |
| 327310 | Cements |
| 327410 | Lime |
| 327420 | Gypsum |
| 327993 | Mineral Wool |
| 331 | Primary Metals |
| 331111 | Iron and Steel Mills |
| 331112 | Electrometallurgical Ferroalloy Products |
| 3312 | Steel Products from Purchased Steel |
| 3313 | Alumina and Aluminum |
| 331314 | Secondary Smelting and Alloying of Aluminum |
| 331315 | Aluminum Sheet, Plate and Foils |
| 331316 | Aluminum Extruded Products |
| 3314 | Nonferrous Metals, except Aluminum |
| 3315 | Foundries |
| 331511 | Iron Foundries |
| 331521 | Aluminum Die-Casting Foundries |
| 331524 | Aluminum Foundries, except Die-Casting |
| 332 | Fabricated Metal Products |
| 333 | Machinery |
| 334 | Computer and Electronic Products |
| 334413 | Semiconductors and Related Devices |
| 335 | Electrical Equip., Appliances, and Components |
| 336 | Transportation Equipment |
| 336111 | Automobiles |
| 336112 | Light Trucks and Utility Vehicles |
| 3364 | Aerospace Product and Parts |
| 336411 | Aircraft |
| 337 | Furniture and Related Products |
| 339 | Miscellaneous |
|  | Total |


| x | x | $x$ |
| :---: | :---: | :---: |
| 0.0 | 0.0 | x |
| 0.0 | 0.0 | x |
| x | x | x |
| x | X | x |
| x | X | X |
| x | x | x |
| 0.0 | 0.0 | x |
| X | X | x |
| x | x | x |
| x | X | X |
| X | X | X |
| x | X | X |
| x | x | X |
| x | X | x |
| x | X | X |
| x | x | $x$ |
| X | X | X |
| X | X | x |
| x | x | $x$ |
| x | X | x |
| X | X | X |
| X | X | X |
| X | X | X |
| x | x | x |
| x | X | $x$ |
| x | x | $x$ |
| x | x | $x$ |
| X | X | x |
| x | x | x |
| x | X | x |
| X | X | X |
| x | X | x |
| x | x | x |
| x | x | x |
| 5.6 | 8.7 | 0.0 |


| $x$ | $x$ | x |
| :---: | :---: | :---: |
| $x$ | 0.0 | 0.0 |
| x | x | 0.0 |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | 0.0 | x |
| x | x | x |
| X | X | x |
| X | X | x |
| X | X | X |
| X | X | x |
| X | X | x |
| x | x | x |
| x | x | x |
| X | X | x |
| x | x | x |
| X | X | x |
| X | x | x |
| x | x | x |
| X | x | x |
| X | X | x |
| X | X | x |
| x | x | x |
| X | X | x |
| x | x | x |
| x | x | x |
| X | X | x |
| X | X | x |
| X | x | x |
| x | x | x |
| X | X | x |
| X | X | x |
| X | X | X |
| X | 6.3 | 13.4 |


| $x$ | $x$ |
| :---: | :---: |
| 0.0 | x |
| 0.0 | x |
| x | x |
| x | X |
| x | X |
| x | x |
| x | X |
| x | x |
| x | X |
| x | X |
| X | X |
| X | X |
| x | x |
| x | X |
| x | X |
| X | X |
| x | X |
| x | x |
| x | x |
| x | X |
| x | x |
| X | X |
| X | x |
| x | x |
| x | X |
| X | X |
| X | X |
| X | X |
| x | x |
| X | X |
| x | x |
| x | x |
| X | x |
| x | x |
| 13.4 | x |


| x | $x$ | $x$ |
| :---: | :---: | :---: |
| x | x | $x$ |
| x | X | x |
| x | x | $x$ |
| x | x | $x$ |
| x | x | x |
| x | x | x |
| x | x | $x$ |
| x | x | x |
| x | x | x |
| x | x | $x$ |
| x | x | $x$ |
| x | x | x |
| x | x | $x$ |
| x | x | x |
| x | x | $x$ |
| x | x | $x$ |
| x | x | $x$ |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| 17.8 | x | 0.0 |

## Economic Characteristic (f)

Value of Shipments and Receipts
(million dollars)
Under 20
$20-49$
$50-99$
36.4
21.0
21.0
25.2
14.4
14.4
2.9
84.1
0.0
48.7
13.4
13.4
10.9
37.3
46.9
37.3
44.9
4

X
0.0
84.1
53.4
$\times$
$x$
0.0
$\times$
64.2
$x$
0.0

X
0.0

| 100-249 | 7.9 | 3.5 | 12.9 | 0.0 | 4.9 | 0.3 | 0.0 | 0.0 | x | 0.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 250-499 | 2.3 | 7.3 | 0.0 | x | 8.8 | 3.1 | 0.0 | x | x | x |
| 500 and Over | 2.3 | 7.7 | 0.2 | 0.0 | 10.8 | 1.5 | 0.0 | 0.0 | x | 0.0 |
| Total | 3.1 | 7.8 | 3.2 | 0.1 | 9.4 | 14.3 | 0.0 | 15.9 | 0.0 | 35.6 |
| Employment Size |  |  |  |  |  |  |  |  |  |  |
| Under 50 | 30.5 | 39.3 | 17.7 | 84.1 | 30.0 | 49.0 | x | 87.0 | x | 89.9 |
| 50-99 | 28.7 | 43.7 | 21.3 | x | 48.4 | 9.3 | 0.0 | x | 0.0 | 88.2 |
| 100-249 | 6.0 | 8.8 | 6.5 | 0.0 | 4.4 | 25.4 | 0.0 | 18.1 | x | 0.0 |
| 250-499 | 5.1 | 7.7 | 10.2 | 0.0 | 10.8 | 0.7 | 0.0 | 0.0 | $x$ | 0.0 |
| 500-999 | 0.8 | 2.0 | 0.3 | 0.0 | 3.0 | 2.2 | 0.0 | 0.0 | x | X |
| 1000 and Over | 3.5 | 17.3 | 1.2 | 0.0 | 17.6 | 19.1 | 0.0 | x | x | 0.0 |
| Total | 3.1 | 7.8 | 3.2 | 0.1 | 9.4 | 14.3 | 0.0 | 15.9 | 0.0 | 35.6 |

## (a) The Bureau of the Census classifies establishments using the North American

 Industry Classification System (NAICS)(b) 'Alternative Energy Sources' consist of those energy sources that could
have been substiuted for residual fuel oil during 2006. The quantities are
expressed in thousands of barrels, and therefore represent the quantity of
of energy.
(c) 'Total Consumed' represents those quantities (Total Inputs) of residual fuel oil that ere ascertained switchable or not switchable, plus an additional quantity for (d) 'Ele switching status was not ascertained.
enerated off the manufacturing establishment site and available at the site for
onsumption. It includes those quantities for which payment was made,
uantities transferred in, quantitites purchased and paid for by a central
ot include electricity qenerated onsite. 'Electricity Receipts' has not been adjusted to account for any quantities that might have been resold or
ansferred out. The estimates include those quantities that were ascertained
witchable or not switchable, plus an additional quantity for which the
witching 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 NF=No applicable RSE row/column fac

* Estimate less than 0.5.
$\mathrm{W}=$ Withheld to avoid disclosing data for individual establishments. $\mathrm{Q}=$ Withheld because Relative Standard Error is greater than 50 percent. $\mathrm{NA}=$ Not available.
$\mathrm{X}=$ Not defined because RSE corresponds to a value of zero
Notes. To obtain the RSE percentage for any table cell, multiply the cell's orresponding RSE column and RSE row factors. Totals may not equal sum omponents because of independent rounding.
Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing nergy Consum '200 Anne Census, data files for the '2006 Annual Survey of Manufacturers.

