```
Level: National Data;
Level: National Data;
Row: NAICS Codes,
Unit: Million barrels.
```

| NAICS Code(a) | Subsector and Industry | Total Amount of LPG Consumed as a Fuel | Total Amount of Unswitchable LPG Fuel Use | Reasons that Made LPG Unswitchable |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Equipment is No Capable of Usincad Another Fuel | Switching Adversely Affects the Products | Unavailable Alternative Fuel Supply |  | Long-Term Contract in Place(c) | Unavailable Storage for ernative Fuels(d | Another Reason | Combinations of Columns F, G, $\mathrm{H}, \mathrm{I}, \mathrm{J}$, and K | Don't Know |
| Total United States |  |  |  |  |  |  |  |  |  |  |  |  |
| 311 | Food | 850 | 549 | 351 | Q | 96 | 8 | 1 | * | 0 |  | 92 |
| 3112 | Grain and Oilseed Milling | Q | Q | Q |  | 0 | Q | 1 | 0 | 0 | 0 | , |
| 311221 | Wet Corn Milling | 3 | 2 | 1 | * | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 31131 | Sugar Manufacturing | 10 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3114 | Fruit and Vegetable Preserving and Specialty Foo | 147 | 92 | 66 |  | 1 | 2 | 0 | 0 | 0 |  | 22 |
| 3115 | Dairy Products | 28 | 21 | Q | 0 | 0 | * | * | 0 | 0 |  | Q |
| 3116 | Animal Slaughtering and Processing | 239 | 147 | 32 | * | 67 | Q | 0 | 0 | 0 | 0 | Q |
| 312 | Beverage and Tobacco Products | 251 | 177 | 129 | Q | Q | 0 | 0 | * | 0 | 1 | Q |
| 3121 | Beverages | 244 | 171 | 124 | Q | Q | 0 | 0 | * | 0 | 1 | 1 Q |
| 3122 | Tobacco | 7 | 6 | 6 | 0 | * | 0 | 0 | 0 | 0 |  | , |
| 313 | Textile Mills | 72 | 52 | 51 | Q | 0 | 0 | 0 | 0 | 0 | 0 | - Q |
| 314 | Textile Product Mills | 167 | Q | Q | * | 0 | 1 | 0 | 0 | 0 |  |  |
| 315 | Apparel | 6 | Q | + | 0 | 0 | 0 | 0 | 0 | 0 |  | Q Q |
| 316 | Leather and Allied Products | 14 | 5 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |  | 0 |
| 321 | Wood Products | 1,368 | 732 | 513 | 12 | 66 | 4 | Q | * | 0 | Q | 130 |
| 321113 | Sawmills | 113 | 62 | 51 | 0 | * | * | Q | 0 | 0 |  | 5 |
| 3212 | Veneer, Plywood, and Engineered Woods | 850 | 416 | 284 | Q | 64 | Q | 0 | 0 | 0 | 0 | - Q |
| 3219 | Other Wood Products | 346 | 200 | 163 | Q | 2 | Q | Q | * | 0 | Q | Q 23 |
| 322 | Paper | 1,339 | 1,007 | 848 | Q | 0 | 8 | 0 | Q | 0 | Q | Q 42 |
| 322110 | Pulp Mills | 29 | 28 | 28 | 0 | 0 | * | 0 | 0 | 0 | 0 |  |
| 322121 | Paper Mills, except Newsprint | 182 | 149 | 133 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 10 |
| 322122 | Newsprint Mills | 47 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 322130 | Paperboard Mills | 117 | 97 | 91 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 323 | Printing and Related Support | 183 | 104 | 87 | * | Q | 0 | 0 | Q | 0 | 0 | - Q |
| 324 | Petroleum and Coal Products | 7,424 | 4,267 | 1,314 | 975 | 143 | 0 | 0 | 823 | 0 |  | 1,012 |
| 324110 | Petroleum Refineries | 7,307 | 4,179 | 1,227 | 975 | 143 | 0 | 0 | 823 | 0 |  | 1,012 |
| 324199 | Other Petroleum and Coal Products | 2 | * | * * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 325 | Chemicals | 1,907 | 1,717 | 1,220 | * | 4 | 256 | 195 | * | 0 | Q | 12 |
| 325110 | Petrochemicals | 1 | 1 | * | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  |
| 325120 | Industrial Gases | Q | Q | Q | 0 | * | 0 | * | 0 | 0 | 0 |  |
| 325181 | Alkalies and Chlorine | 2 |  | 2 | 0 | * | * | 0 | 0 | 0 | 0 | 0 |
| 325182 | Carbon Black | * | * | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 325188 | Other Basic Inorganic Chemicals | 26 | 18 | 12 | 0 | 1 | Q | * | 0 | 0 | 0 | Q Q |
| 325192 | Cyclic Crudes and Intermediates | * | * | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 325193 | Ethyl Alcohol | 10 | 2 | 2 | 0 | 0 | * | 0 | 0 | 0 | 0 |  |
| 325199 | Other Basic Organic Chemicals | 76 | 11 | 10 | 0 | 0 | 0 | * | 0 | 0 |  | * 1 |
| 325211 | Plastics Materials and Resins | 1,520 | 1,496 | 1,046 | 0 | 0 | 252 | 194 | 0 | 0 | 0 | 0 |
| 325212 | Synthetic Rubber | , | 8 | 8 | 0 | 0 | 0 | 0 | * | 0 |  |  |
| 325222 | Noncellulosic Organic Fibers | 9 | 7 | 7 | 0 | 0 | * | 0 | 0 | 0 | 0 | 0 |
| 325311 | Nitrogenous Fertilizers | 9 | 9 | 1 | 0 | * | 0 | 0 | 0 | 0 | 7 | 7 |
| 325312 | Phosphatic Fertilizers | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3254 | Pharmaceuticals and Medicines | 49 | Q | Q | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 |
| 325412 | Pharmaceutical Preparation | 44 | Q | Q | 0 | 0 | 0 | * | 0 | 0 | 0 | 00 |
| 325992 | Photographic Film, Paper, Plate, and Chemicals | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 326 | Plastics and Rubber Products | 1,316 | 898 | 325 | 0 | Q | Q | Q | 0 | 0 | Q | Q Q |
| 327 | Nonmetallic Mineral Products | 1,327 | 1,095 | Q | * | 16 | Q | 0 | 5 | 0 | Q | Q Q |
| 327211 | Flat Glass | 11 | 8 | 8 | 0 | * | 0 | 0 | 0 | 0 |  | 0 * |
| 327212 | Other Pressed and Blown Glass and Glassware | 92 | Q | Q | 0 | 13 | 0 | 0 | 0 | 0 | Q | Q 3 |
| 327213 | Glass Containers | 31 | 29 | 27 | 0 | 0 | 0 | 0 | 1 | 0 |  | * 0 |
| 327215 | Glass Products from Purchased Glass | 68 | 37 | 35 | * | 0 | 1 | 0 | 0 | 0 |  | 1 |
| 327310 | Cements | 12 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |  | * * |
| 327410 | Lime |  |  | 2 | 0 | 0 | * | 0 | 3 | 0 | 0 | 0 |
| 327420 | Gypsum | 70 | 61 | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 327993 | Mineral Wool | 27 | 22 | 16 | * | 2 | * | 0 | 1 | 0 | 0 | 03 |
| 331 | Primary Metals | 979 | 596 | 344 | 4 | 2 | 12 | 2 | 4 | 0 | 3 | 3225 |

NAICS
Code(a)

| Code(a) | Subsector and Industry |
| :--- | :--- |
| 331111 | Iron and Steel Mills |
| 331112 | Electrometalllurgical Ferroalloy Products |
| 3312 | Steel Products from Purchased Steel |
| 3313 | Alumina and Aluminum |
| 331314 | Secondary Smelting and Alloying of Aluminum |
| 331315 | Aluminum Sheet, Plate and Foiils |
| 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 | Furriture and Related Products |
| 339 | Miscellaneous |
|  | Total |


|  |  | Reasons that Made LPG Unswitchable |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Amount of LPG Consumed as a Fuel | Total Amount of Unswitchable LPG Fuel Use | Equipment is No Capable of Usinctad Another Fuel | Switching dversely Affect the Products | Unavailable ts Alternative Fuel Supply | Environmenta lyestrictions(b | Long-Term <br> a Contract <br> b in Place(c) |  | Unavailable Storage for ernative Fuels |  | nother Reason | Combinations of Columns F, G, $\mathrm{H}, \mathrm{I}, \mathrm{J}$, and K | Don't Know |
| 43 | 28 | 23 |  | * * | 1 | 10 | 0 |  | 0 | 0 | 1 | 3 |
| 1 | 1 | 1 |  | 0 0 | 00 | 0 | 0 |  | 0 | 0 | 0 | * |
| 69 | 50 | 38 |  | 2 | 4 | 4 Q |  |  | * | 0 | 0 | 5 |
| 266 | 66 | 54 | Q | Q | 3 | 3 |  |  | * | 0 |  | 8 |
| 13 | 10 | 6 |  | $0 \quad 0$ | 0 | 0 | 0 |  | 0 | 0 | 0 | - 4 |
| 27 | 26 | 21 |  | $0 \quad 0$ | 0 | 2 | * |  | * | 0 | * | * 3 |
| 214 | 23 | 20 | Q | Q 0 | $0 \quad 1$ | 10 | 0 |  | 0 | 0 | 0 | 1 |
| 335 | 284 | 100 |  | 00 | 0 Q | Q 0 | 0 |  | 1 | 0 | 2 | 179 |
| 265 | 167 | 129 |  | $1 \quad 1$ | 12 | 21 | 1 |  | 2 | 0 | 1 | 31 |
| 95 | 69 | 65 |  | * 0 | 02 | 20 | 0 |  | * | 0 | 0 | 2 |
| 47 | 16 | 13 |  | 1 1 | 1 | * 0 | 0 |  | 0 | 0 | 1 | * |
| 49 | 29 | 13 |  | $0 \quad 0$ | 0 | 1 | 1 |  | * | 0 | 0 | 15 |
| 1,178 | 729 | 360 | Q | Q * | * Q | Q Q |  |  | Q | 0 | 0 | Q |
| 725 | 581 | 535 | Q | Q 0 | 0 0 | 0 | 0 |  | 0 | 0 | Q | Q |
| Q | 9 | 7 |  | 0 0 | 0 0 | 0 | 0 |  | * | 0 | 0 | Q |
| Q | Q | Q |  | $0 \quad 0$ | 0 0 | 0 | 0 |  | * | 0 | 0 | * |
| 229 | 133 | 96 | Q | Q Q | Q Q | Q 0 | 0 |  | 0 | - | 0 | Q |
| 1,008 | 626 | 536 | 12 | 2 Q | Q 6 | 6 Q | Q |  | * | 0 | 12 | 43 |
| 63 | 14 | 13 |  | * 0 | 0 | 0 | 0 |  | * | 0 | 1 | * |
| 10 | 5 | 4 |  | 0 0 | 0 | 0 | 0 |  | * | 0 | 0 | 1 |
| 116 | 85 | 58 | 12 | 20 | 0 | 40 | 0 |  | 0 | 0 | 5 | 7 |
| 12 | 11 | 2 |  | 0 0 | 0 3 | 30 | 0 |  | 0 | 0 | 1 | 6 |
| 140 | 91 | 68 |  | $0 \quad 0$ | 0 | $0 \quad \mathrm{Q}$ |  |  | 0 | 0 | 0 | 16 |
| 152 | 51 | 28 |  | * Q | Q 0 | 0 Q | , |  | 0 | 0 | 0 | 8 |

estabishments using the North American Industry Classification System (NAICS).
(b) The environmental resrictions related to air quality that limit the amount of
he usable alternative fuel that could be used instead
(c) Long-term contracts are typically with a utility or third-party supplier
such as an energy broker and requires the purchase of a fuel for an extended
mount of time.
environmental impact of storage tanks.
NF=No applicable RSE row/column facto
*Estimate less than 0.5
$\mathrm{W}=$ Withheld to avoid disclosing data for individual establishments.
$\mathrm{Q}=$ Withheld beca
$\mathrm{NA}=$ 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 components because of independent rounding. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

