

**Table HC5-7a. Appliances by Four Most Populated States,  
Million U.S. Households, 1997**

| Appliance Types<br>and Characteristics                                  | Total | Four Most Populated States |            |       |         | RSE<br>Row<br>Factors |
|---|-------|----------------------------|------------|-------|---------|-----------------------|
|   |       | New York                   | California | Texas | Florida |                       |
|   |       | 0.4                        | 1.3        | 1.2   | 1.2     |                       |
| <b>Total</b> .....  | 101.5 | 6.8                        | 11.5       | 7.0   | 5.9     | NF                    |
| <b>Households With Electric<br/>Air-Conditioning Equipment</b> .....    | 73.6  | 4.3                        | 4.8        | 6.4   | 5.7     | 3.5                   |
| Central Equipment Not Used .....  | 0.3   | Q                          | 0.1        | (*)   | 0.1     | 29.3                  |
| Room Air Conditioners Not Used .....                                    | 0.7   | Q                          | Q          | Q     | 0.1     | 36.9                  |
| <b>Households Using Electric<br/>Air-Conditioning<sup>1</sup></b> ..... | 72.6  | 4.2                        | 4.6        | 6.3   | 5.6     | 3.3                   |
| <b>Type of Electric Air-Conditioning Used</b>                           |       |                            |            |       |         |                       |
| Central Air-Conditioning <sup>2</sup> .....                             | 47.5  | 1.3                        | 3.2        | 4.8   | 4.9     | 5.4                   |
| Without a Heat Pump .....   | 36.9  | 1.2                        | 2.9        | 4.1   | 2.5     | 10.6                  |
| With a Heat Pump .....  | 10.6  | 0.1                        | 0.3        | 0.7   | 2.4     | 21.2                  |
| Room Air-Conditioning .....   | 25.2  | 3.0                        | 1.4        | 1.6   | 0.7     | 10.7                  |
| 1 Unit .....  | 14.9  | 1.6                        | 1.3        | 0.7   | 0.5     | 12.5                  |
| 2 Units .....   | 7.2   | 1.0                        | 0.1        | 0.5   | 0.1     | 17.8                  |
| 3 or More Units .....   | 3.0   | 0.5                        | Q          | 0.4   | 0.1     | 25.7                  |
| <b>Clothes Washer</b> .....   | 78.5  | 4.5                        | 7.0        | 5.1   | 4.9     | 4.3                   |
| <b>Clothes Dryer</b> .....  | 72.2  | 3.7                        | 6.6        | 4.8   | 4.4     | 4.1                   |
| Electric .....  | 55.9  | 2.6                        | 3.5        | 3.8   | 4.2     | 6.2                   |
| Natural Gas .....   | 15.4  | 1.1                        | 3.0        | 1.0   | 0.2     | 15.4                  |
| LPG .....   | 0.8   | (*)                        | Q          | Q     | Q       | 34.2                  |
| <b>Dishwasher</b> .....   | 50.9  | 3.1                        | 5.5        | 3.8   | 3.4     | 6.1                   |
| <b>Ceiling Fans</b> .....   | 61.0  | 3.4                        | 4.7        | 5.2   | 4.4     | 3.6                   |
| 1 .....   | 23.6  | 2.0                        | 2.4        | 1.0   | 0.7     | 7.2                   |
| 2 .....   | 14.0  | 0.6                        | 1.1        | 1.3   | 0.9     | 11.4                  |
| 3 or more .....   | 23.4  | 0.8                        | 1.2        | 2.9   | 2.8     | 8.2                   |
| <b>Freezer</b> .....  | 33.7  | 1.4                        | 1.7        | 2.1   | 1.5     | 8.2                   |
| 1 .....   | 30.7  | 1.3                        | 1.6        | 1.9   | 1.4     | 9.0                   |
| 2 or more .....   | 3.0   | Q                          | Q          | 0.2   | 0.1     | 23.0                  |
| <b>Most-Used Freezer<br/>Defrost Method</b>                             |       |                            |            |       |         |                       |
| Frost-Free .....  | 10.7  | 0.5                        | 0.6        | 0.7   | 0.6     | 15.6                  |
| Manual .....  | 23.0  | 1.0                        | 1.0        | 1.4   | 0.9     | 7.7                   |
| <b>Type of Freezer</b>  |       |                            |            |       |         |                       |
| Upright .....   | 16.5  | 0.9                        | 1.4        | 0.9   | 1.0     | 8.1                   |
| Chest .....   | 17.1  | 0.5                        | 0.3        | 1.2   | 0.4     | 17.0                  |
| <b>Age of Freezer</b>   |       |                            |            |       |         |                       |
| Less than 2 Years .....   | 2.4   | Q                          | 0.1        | 0.2   | Q       | 26.9                  |
| 2 to 4 Years .....  | 4.2   | 0.1                        | 0.2        | 0.3   | 0.2     | 28.5                  |
| 5 to 9 Years .....  | 7.5   | 0.3                        | 0.5        | 0.5   | 0.3     | 13.2                  |
| 10 to 19 Years .....  | 12.3  | 0.5                        | 0.6        | 0.8   | 0.6     | 13.5                  |
| 20 Years or More .....  | 6.7   | 0.4                        | 0.3        | 0.2   | Q       | 24.7                  |
| Don't Know .....  | 0.5   | Q                          | Q          | Q     | Q       | 46.6                  |

See footnotes at end of table.

**Table HC5-7a. Appliances by Four Most Populated States,  
Million U.S. Households, 1997 (Continued)**

| Appliance Types<br>and Characteristics | Total      | Four Most Populated States |            |            |            | RSE<br>Row<br>Factors |
|--|------------|----------------------------|------------|------------|------------|-----------------------|
|  |            | New York                   | California | Texas      | Florida    |                       |
|  |            | 0.4                        | 1.3        | 1.2        | 1.2        |                       |
| <b>RSE Column Factor:</b>              | <b>0.4</b> | <b>1.3</b>                 | <b>1.2</b> | <b>1.2</b> | <b>1.4</b> |                       |
| <b>Freezer Size</b>                    |            |                            |            |            |            |                       |
| Very Small (Less than 11 cf) .....     | 2.7        | 0.1                        | 0.1        | 0.2        | 0.1        | 32.0                  |
| Small (11-14 cf) .....                 | 6.7        | 0.2                        | 0.3        | 0.4        | 0.2        | 22.3                  |
| Medium (15-18 cf) .....                | 13.5       | 0.5                        | 0.7        | 0.8        | 0.6        | 12.5                  |
| Large (19-22 cf) .....                 | 9.0        | 0.5                        | 0.4        | 0.5        | 0.5        | 14.9                  |
| Very Large (23 or More cf) .....       | 1.7        | 0.1                        | 0.2        | Q          | Q          | 21.4                  |
| <b>Heaters (other)</b>                 |            |                            |            |            |            |                       |
| Hot Tub or Spa .....                   | 4.0        | 0.2                        | 0.8        | 0.4        | 0.5        | 23.0                  |
| Electric .....                         | 2.7        | 0.2                        | 0.4        | 0.2        | 0.2        | 28.3                  |
| Natural Gas .....                      | 1.2        | Q                          | 0.3        | Q          | Q          | 34.6                  |
| LPG/Other .....                        | 0.1        | Q                          | Q          | Q          | Q          | NF                    |
| Portable Space .....                   | 14.1       | 0.8                        | 1.3        | 1.0        | 0.6        | 11.2                  |
| Electric .....                         | 12.3       | 0.7                        | 1.3        | 1.0        | 0.5        | 10.6                  |
| Kerosene .....                         | 2.1        | Q                          | Q          | Q          | Q          | 24.5                  |
| Swimming Pool .....                    | 1.1        | Q                          | 0.2        | 0.1        | Q          | 31.8                  |
| Natural Gas .....                      | 0.7        | (*)                        | 0.2        | 0.1        | Q          | 33.1                  |
| Electric/LPG/Other .....               | 0.4        | Q                          | Q          | Q          | Q          | 70.4                  |
| Waterbed Heaters .....                 | 8.4        | 0.4                        | 0.4        | 0.6        | 0.6        | 17.5                  |
| 1 .....                                | 6.9        | 0.4                        | Q          | 0.5        | 0.4        | 20.4                  |
| 2 or More .....                        | 1.5        | Q                          | 0.1        | 0.1        | 0.1        | 18.1                  |
| Waterbed Heaters                       |            |                            |            |            |            |                       |
| Used All Year .....                    | 7.4        | 0.3                        | 0.4        | 0.5        | 0.6        | 19.8                  |
| 1 .....                                | 6.4        | 0.3                        | Q          | 0.4        | 0.5        | 20.1                  |
| 2 or More .....                        | 1.0        | Q                          | 0.1        | 0.1        | 0.1        | 23.6                  |
| <b>Oven</b> .....                      | 100.3      | 6.8                        | 11.2       | 6.9        | 5.8        | NF                    |
| Electric .....                         | 62.3       | 2.4                        | 4.9        | 4.2        | 5.3        | 3.9                   |
| Natural Gas .....                      | 33.7       | 3.9                        | 6.1        | 2.5        | 0.3        | 6.9                   |
| LPG .....                              | 4.2        | 0.5                        | 0.3        | 0.2        | 0.2        | 23.3                  |
| Other .....                            | Q          | Q                          | Q          | Q          | Q          | NF                    |
| <b>Self-Cleaning Oven</b> .....        | 44.7       | 3.0                        | 4.2        | 2.9        | 2.8        | 6.6                   |
| Continuous .....                       | 10.1       | 0.7                        | 1.0        | 0.8        | 0.5        | 12.7                  |
| Manual Start .....                     | 34.6       | 2.2                        | 3.2        | 2.1        | 2.3        | 7.6                   |
| <b>Pumps (Electric)</b> .....          | 20.1       | 1.3                        | 1.3        | 0.9        | 2.1        | 10.7                  |
| Hot Tub or Spa .....                   | 4.0        | 0.2                        | 0.8        | 0.4        | 0.5        | 22.5                  |
| Swimming Pool .....                    | 5.5        | 0.6                        | 0.5        | 0.3        | 0.9        | 15.6                  |
| Well Water .....                       | 14.3       | 0.7                        | 0.4        | 0.4        | 1.7        | 22.6                  |
| <b>Range</b> .....                     | 100.7      | 6.8                        | 11.3       | 6.9        | 5.9        | NF                    |
| Electric .....                         | 61.1       | 2.4                        | 4.5        | 3.9        | 5.3        | 4.2                   |
| Natural Gas .....                      | 35.2       | 4.0                        | 6.5        | 2.7        | 0.3        | 6.8                   |
| LPG .....                              | 4.4        | 0.5                        | 0.3        | 0.3        | 0.2        | 24.6                  |
| Other .....                            | Q          | Q                          | Q          | Q          | Q          | NF                    |
| <b>Refrigerators</b> .....             | 101.3      | 6.8                        | 11.4       | 7.0        | 5.9        | NF                    |
| 1 .....                                | 85.9       | 6.1                        | 9.7        | 5.9        | 5.3        | 1.7                   |
| 2 or More .....                        | 15.4       | 0.8                        | 1.8        | 1.0        | 0.7        | 10.8                  |

See footnotes at end of table.

**Table HC5-7a. Appliances by Four Most Populated States,  
Million U.S. Households, 1997 (Continued)**

| Appliance Types<br>and Characteristics    | Total      | Four Most Populated States |            |            |            | RSE<br>Row<br>Factors |
|---|------------|----------------------------|------------|------------|------------|-----------------------|
|   |            | New York                   | California | Texas      | Florida    |                       |
|   |            |                            |            |            |            |                       |
| RSE Column Factor:                        | <b>0.4</b> | <b>1.3</b>                 | <b>1.2</b> | <b>1.2</b> | <b>1.4</b> |                       |
| <b>Most-Used Refrigerator</b>             |            |                            |            |            |            |                       |
| <b>Defrost Method</b>                     |            |                            |            |            |            |                       |
| Frost-Free .....                          | 88.1       | 5.7                        | 9.6        | 6.3        | 5.5        | 1.3                   |
| Manual .....                              | 13.3       | 1.1                        | 1.8        | 0.6        | 0.4        | 10.8                  |
| <b>Type of Refrigerator</b>               |            |                            |            |            |            |                       |
| 2-Doors (top and bottom) .....            | 69.0       | 4.9                        | 6.3        | 4.4        | 3.8        | 4.5                   |
| 2-Doors (side-by-side) .....              | 20.7       | 1.0                        | 3.4        | 1.8        | 1.4        | 11.2                  |
| Regular (single door) .....               | 10.8       | 0.8                        | 1.7        | 0.6        | 0.7        | 14.4                  |
| Half-Size/Other .....                     | 0.7        | (*)                        | 0.1        | Q          | Q          | 34.3                  |
| <b>Age of Refrigerator</b>                |            |                            |            |            |            |                       |
| Less than 2 Years .....                   | 13.4       | 0.9                        | 1.6        | 1.0        | 0.7        | 11.6                  |
| 2 to 4 Years .....                        | 21.4       | 1.6                        | 2.1        | 1.7        | 1.0        | 9.0                   |
| 5 to 9 Years .....                        | 30.3       | 1.8                        | 3.8        | 2.1        | 2.0        | 7.4                   |
| 10 to 19 Years .....                      | 24.1       | 1.6                        | 2.8        | 1.4        | 1.5        | 6.2                   |
| 20 Years or More .....                    | 7.1        | 0.5                        | 0.7        | 0.4        | 0.2        | 15.5                  |
| Don't Know .....                          | 5.0        | 0.4                        | 0.5        | 0.3        | 0.5        | 18.3                  |
| <b>Size of Refrigerator</b>               |            |                            |            |            |            |                       |
| Very Small (Less than 11 cf) .....        | 0.9        | Q                          | 0.1        | Q          | Q          | 34.5                  |
| Small (11-14 cf) .....                    | 7.7        | 0.7                        | 1.3        | 0.5        | 0.7        | 10.7                  |
| Medium (15-18 cf) .....                   | 45.7       | 3.2                        | 4.0        | 2.8        | 2.2        | 5.2                   |
| Large (19-22 cf) .....                    | 45.5       | 2.8                        | 5.7        | 3.5        | 3.0        | 5.7                   |
| Very Large (23 or More cf) .....          | 1.5        | Q                          | 0.2        | 0.1        | Q          | 26.1                  |
| <b>Through-the-Door Ice/Water Service</b> |            |                            |            |            |            |                       |
| Yes .....                                 | 13.2       | 0.6                        | 2.0        | 1.3        | 1.1        | 14.7                  |
| No .....                                  | 88.3       | 6.3                        | 9.5        | 5.7        | 4.9        | 2.7                   |
| <b>Color Television Sets</b>              |            |                            |            |            |            |                       |
| 1 .....                                   | 100.2      | 6.8                        | 11.3       | 6.8        | 5.8        | NF                    |
| 2 .....                                   | 32.3       | 2.1                        | 4.0        | 2.1        | 1.5        | 7.5                   |
| 3 .....                                   | 37.9       | 2.7                        | 4.4        | 2.6        | 2.4        | 4.5                   |
| 4 .....                                   | 19.4       | 1.3                        | 2.1        | 1.3        | 1.1        | 8.4                   |
| 5 or More .....                           | 7.8        | 0.5                        | 0.6        | 0.5        | 0.7        | 16.6                  |
| 5 or More .....                           | 2.8        | 0.1                        | 0.2        | 0.2        | 0.1        | 24.1                  |
| <b>Video Cassette Recorders (VCR's)</b>   |            |                            |            |            |            |                       |
| 1 .....                                   | 88.9       | 5.9                        | 10.3       | 6.0        | 4.8        | 1.7                   |
| 2 .....                                   | 56.3       | 4.1                        | 6.7        | 3.5        | 2.7        | 4.2                   |
| 3 or More .....                           | 25.2       | 1.3                        | 2.8        | 1.9        | 1.7        | 7.9                   |
| 3 or More .....                           | 7.3        | 0.5                        | 0.7        | 0.6        | 0.5        | 15.6                  |
| <b>Water Heaters</b>                      |            |                            |            |            |            |                       |
| 101.5                                     | 6.8        | 11.5                       | 7.0        | 5.9        | NF         |                       |
| Electric .....                            | 39.6       | 1.0                        | 1.8        | 2.4        | 4.7        | 10.8                  |
| For One Housing Unit .....                | 37.8       | 0.9                        | 1.6        | 2.1        | 4.6        | 11.3                  |
| For Two or More Units .....               | 1.8        | Q                          | 0.2        | 0.3        | 0.1        | 27.8                  |
| Natural Gas .....                         | 52.6       | 3.3                        | 9.3        | 4.3        | 0.9        | 8.0                   |
| For One Housing Unit .....                | 46.5       | 2.4                        | 7.9        | 4.1        | 0.8        | 9.6                   |
| For Two or More Units .....               | 6.2        | 0.9                        | 1.4        | Q          | 0.2        | 16.8                  |
| Fuel Oil .....                            | 5.1        | 2.2                        | Q          | Q          | Q          | 15.5                  |
| For One Housing Unit .....                | 3.1        | 0.9                        | Q          | Q          | Q          | 23.9                  |
| For Two or More Units .....               | 2.0        | 1.3                        | Q          | Q          | Q          | 14.4                  |
| LPG .....                                 | 3.2        | 0.2                        | 0.3        | 0.3        | 0.1        | 24.5                  |
| Other .....                               | 0.7        | Q                          | Q          | Q          | Q          | 57.2                  |
| No Water Heater .....                     | 0.2        | (*)                        | (*)        | Q          | Q          | 41.2                  |

See footnotes at end of table.

**Table HC5-7a. Appliances by Four Most Populated States,  
Million U.S. Households, 1997 (Continued)**

| Appliance Types<br>and Characteristics           | Total | Four Most Populated States |            |       |         | RSE<br>Row<br>Factors |
|--|-------|----------------------------|------------|-------|---------|-----------------------|
|  |       | New York                   | California | Texas | Florida |                       |
|  |       | 0.4                        | 1.3        | 1.2   | 1.2     |                       |
| RSE Column Factor:                               | 0.4   | 1.3                        | 1.2        | 1.2   | 1.4     |                       |
| <b>Water Heater (for one housing unit) .....</b> | 91.1  | 4.4                        | 9.8        | 6.5   | 5.7     | 2.0                   |
| Age  |       |                            |            |       |         |                       |
| Less than 2 Years .....                          | 11.2  | 0.6                        | 0.9        | 0.8   | 0.4     | 15.4                  |
| 2 to 4 Years .....                               | 17.0  | 0.9                        | 1.4        | 1.9   | 1.0     | 10.7                  |
| 5 to 9 Years .....                               | 25.3  | 1.1                        | 2.7        | 1.9   | 2.0     | 7.8                   |
| 10 to 19 Years .....                             | 20.2  | 0.8                        | 2.4        | 1.1   | 1.2     | 11.0                  |
| 20 Years or More .....                           | 7.1   | 0.2                        | 1.3        | 0.3   | 0.3     | 17.2                  |
| Don't Know .....                                 | 7.1   | 0.2                        | 0.8        | 0.5   | 0.7     | 13.6                  |
| No Separate Heater .....                         | 3.0   | 0.6                        | 0.3        | Q     | Q       | 24.5                  |
| No Water Heater .....                            | 0.2   | (*)                        | (*)        | Q     | Q       | 41.2                  |
| Water Heaters for                                |       |                            |            |       |         |                       |
| Two or More Units .....                          | 10.3  | 2.4                        | 1.6        | 0.5   | 0.2     | 15.9                  |
| Size   |       |                            |            |       |         |                       |
| Small .....                                      | 15.5  | 0.5                        | 1.5        | 1.3   | 1.5     | 11.3                  |
| Medium .....                                     | 47.1  | 2.1                        | 4.7        | 3.6   | 2.8     | 6.5                   |
| Large .....                                      | 21.7  | 1.0                        | 3.0        | 1.4   | 1.0     | 9.5                   |
| Don't Know .....                                 | 3.8   | 0.2                        | 0.5        | 0.2   | Q       | 24.8                  |
| No Separate Heater .....                         | 3.0   | 0.6                        | 0.3        | Q     | Q       | 24.5                  |
| No Water Heater .....                            | 0.2   | (*)                        | (*)        | Q     | Q       | 41.2                  |
| Water Heaters for                                |       |                            |            |       |         |                       |
| Two or More Units .....                          | 10.3  | 2.4                        | 1.6        | 0.5   | 0.2     | 15.9                  |
| <b>Other Appliances</b>                          |       |                            |            |       |         |                       |
| Heated Aquarium .....                            | 3.9   | 0.3                        | 0.5        | 0.1   | 0.2     | 17.2                  |
| Microwave Oven .....                             | 84.2  | 5.2                        | 9.4        | 5.6   | 5.0     | 2.1                   |
| Outdoor Gas Light <sup>2</sup> .....             | 0.7   | Q                          | Q          | 0.1   | Q       | 27.9                  |
| Rechargeable Tools/<br>or Appliances .....       | 44.4  | 2.7                        | 5.0        | 3.2   | 2.5     | 5.1                   |
| Stereo Equipment .....                           | 69.8  | 4.7                        | 8.4        | 5.1   | 4.3     | 2.0                   |

<sup>1</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>2</sup> Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

(\*) = Value rounds to zero in the units displayed.

cf = Cubic feet.

NF = No applicable RSE row factor.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1997 Residential Energy Consumption Survey.