

## **APPENDIX**



# I

## Aggregate Series

*Note:* the following series are always expressed in kcal (kilocalories),  
kj (kilojoules), Toe (tons of oil equivalent) and Pj (petajoules).

1 kcal = 4,1868 kj  
1 Toe = 10,000,000 kcal  
1 Pj = 23,895 Toe



## 1. Energy consumption in Italy 1861-2000 (Toe)

|      | 1               | 2         | 3         | 4      | 5      | 6               | 7                      |            |
|------|-----------------|-----------|-----------|--------|--------|-----------------|------------------------|------------|
|      | Food<br>for men | Firewood  | Animals   | Wind   | Water  | Fossil<br>fuels | Primary<br>Electricity | TOTAL      |
| 1861 | 2,370,917       | 5,694,864 | 2,069,359 | 27,584 | 82,875 | 834,009         |                        | 11,079,609 |
| 1862 | 2,393,836       | 5,738,715 | 1,989,171 | 27,607 | 83,395 | 739,776         |                        | 10,972,500 |
| 1863 | 2,462,591       | 5,782,903 | 1,929,575 | 28,306 | 83,919 | 750,114         |                        | 11,037,407 |
| 1864 | 2,578,307       | 5,827,431 | 1,883,172 | 24,791 | 84,449 | 728,935         |                        | 11,127,085 |
| 1865 | 2,478,188       | 5,872,302 | 1,866,486 | 28,184 | 84,983 | 743,492         |                        | 11,073,636 |
| 1866 | 2,329,851       | 5,917,519 | 1,870,202 | 29,766 | 76,487 | 736,988         |                        | 10,960,813 |
| 1867 | 2,329,197       | 5,333,003 | 1,852,809 | 33,740 | 76,974 | 762,537         |                        | 10,388,261 |
| 1868 | 2,371,795       | 5,374,067 | 1,895,099 | 30,533 | 77,466 | 779,359         |                        | 10,528,321 |
| 1869 | 2,484,260       | 5,415,448 | 1,955,557 | 32,777 | 77,963 | 774,036         |                        | 10,740,041 |
| 1870 | 2,496,338       | 5,457,147 | 2,044,097 | 34,668 | 78,355 | 795,280         |                        | 10,905,885 |
| 1871 | 2,478,242       | 5,499,167 | 2,041,734 | 35,152 | 76,594 | 668,266         |                        | 10,799,154 |
| 1872 | 2,540,107       | 5,307,170 | 2,103,566 | 35,205 | 76,985 | 805,104         |                        | 10,868,138 |
| 1873 | 2,530,348       | 5,362,428 | 2,155,778 | 35,427 | 77,382 | 767,446         |                        | 10,928,809 |
| 1874 | 2,583,998       | 5,488,686 | 2,194,851 | 34,713 | 77,784 | 853,542         |                        | 11,233,574 |
| 1875 | 2,657,962       | 5,715,066 | 2,208,254 | 35,050 | 78,191 | 872,198         |                        | 11,566,721 |
| 1876 | 2,646,974       | 5,798,106 | 2,222,394 | 36,232 | 78,604 | 1,144,024       |                        | 11,926,334 |
| 1877 | 2,633,576       | 5,584,589 | 2,227,995 | 35,933 | 83,764 | 1,054,159       |                        | 11,620,015 |
| 1878 | 2,695,432       | 5,498,359 | 2,234,398 | 34,518 | 84,075 | 1,078,355       |                        | 11,625,137 |
| 1879 | 2,790,578       | 5,707,657 | 2,250,111 | 33,344 | 84,394 | 1,247,619       |                        | 12,113,704 |
| 1880 | 2,772,974       | 5,777,629 | 2,280,398 | 32,912 | 84,721 | 1,399,140       |                        | 12,347,773 |
| 1881 | 2,764,590       | 5,682,653 | 2,305,452 | 31,698 | 85,056 | 1,627,135       |                        | 12,496,583 |
| 1882 | 2,808,574       | 5,619,781 | 2,361,628 | 31,840 | 85,398 | 1,760,606       |                        | 12,667,826 |
| 1883 | 2,853,892       | 5,690,267 | 2,417,047 | 31,023 | 85,909 | 1,893,035       |                        | 12,971,173 |
| 1884 | 2,874,451       | 5,675,244 | 2,467,904 | 30,452 | 86,426 | 2,087,216       |                        | 13,221,693 |
| 1885 | 2,937,906       | 5,614,224 | 2,513,855 | 29,751 | 86,949 | 2,369,773       |                        | 13,552,458 |
| 1886 | 3,010,932       | 5,539,519 | 2,550,016 | 28,865 | 87,478 | 2,338,406       |                        | 13,555,215 |
| 1887 | 3,090,173       | 5,524,084 | 2,565,284 | 26,562 | 88,012 | 2,843,354       | 23                     | 14,137,492 |
| 1888 | 3,035,517       | 5,530,258 | 2,563,299 | 25,460 | 83,541 | 3,047,181       | 57                     | 14,285,312 |
| 1889 | 3,088,297       | 5,438,368 | 2,545,215 | 23,551 | 78,969 | 3,144,485       | 103                    | 14,318,988 |
| 1890 | 3,057,225       | 5,382,185 | 2,509,112 | 23,248 | 74,731 | 3,428,090       | 114                    | 14,474,705 |
| 1891 | 3,007,084       | 5,309,434 | 2,526,660 | 23,036 | 70,804 | 3,086,887       | 149                    | 14,024,054 |
| 1892 | 3,110,898       | 5,344,832 | 2,541,421 | 22,557 | 67,164 | 3,067,149       | 343                    | 14,154,363 |
| 1893 | 3,163,330       | 5,178,545 | 2,561,258 | 21,951 | 63,790 | 2,968,561       | 915                    | 13,958,351 |
| 1894 | 3,140,109       | 5,230,613 | 2,584,973 | 21,425 | 60,663 | 3,698,038       | 1,144                  | 14,736,964 |
| 1895 | 3,214,085       | 5,182,353 | 2,620,782 | 20,944 | 57,762 | 3,401,398       | 2,230                  | 14,499,554 |
| 1896 | 3,293,507       | 5,120,716 | 2,639,408 | 20,068 | 55,073 | 3,226,443       | 2,516                  | 14,357,730 |
| 1897 | 3,202,980       | 5,098,078 | 2,665,094 | 20,017 | 52,579 | 3,364,375       | 5,033                  | 14,408,155 |
| 1898 | 3,354,913       | 5,023,784 | 2,681,975 | 20,544 | 50,266 | 3,494,121       | 7,549                  | 14,633,152 |
| 1899 | 3,352,432       | 4,975,730 | 2,684,052 | 21,262 | 48,119 | 3,830,486       | 10,294                 | 14,922,376 |
| 1900 | 3,318,812       | 4,957,928 | 2,679,139 | 21,612 | 46,128 | 3,918,432       | 12,582                 | 14,954,633 |
| 1901 | 3,472,734       | 5,020,697 | 2,694,903 | 21,807 | 44,280 | 3,832,147       | 18,301                 | 15,104,869 |
| 1902 | 3,548,168       | 4,800,800 | 2,708,995 | 21,671 | 42,565 | 4,256,804       | 25,164                 | 15,404,165 |
| 1903 | 3,585,277       | 4,609,920 | 2,734,559 | 22,115 | 40,972 | 4,343,658       | 34,314                 | 15,370,814 |
| 1904 | 3,545,479       | 4,494,878 | 2,769,621 | 21,708 | 41,392 | 4,620,203       | 40,033                 | 15,533,314 |
| 1905 | 3,620,471       | 4,348,863 | 2,801,882 | 20,781 | 40,418 | 5,033,933       | 45,752                 | 15,912,099 |
| 1906 | 3,717,984       | 4,270,762 | 2,881,649 | 19,557 | 39,474 | 6,008,644       | 62,909                 | 17,000,979 |
| 1907 | 3,617,581       | 4,263,353 | 2,959,930 | 18,456 | 38,560 | 6,502,775       | 91,504                 | 17,492,159 |
| 1908 | 3,580,046       | 4,338,881 | 3,029,210 | 17,989 | 37,674 | 6,649,933       | 111,521                | 17,765,254 |
| 1909 | 3,664,458       | 4,446,103 | 3,165,482 | 17,417 | 36,816 | 7,336,709       | 125,818                | 18,792,804 |
| 1910 | 3,839,307       | 4,417,497 | 3,197,544 | 17,233 | 35,984 | 7,357,207       | 142,975                | 19,007,746 |

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|      | 1               | 2         | 3         | 4      | 5      | 6               | 7                      | TOTAL      |
|------|-----------------|-----------|-----------|--------|--------|-----------------|------------------------|------------|
|      | Food<br>for men | Firewood  | Animals   | Wind   | Water  | Fossil<br>fuels | Primary<br>Electricity |            |
| 1911 | 3,817,581       | 4,336,721 | 3,235,905 | 16,603 | 45,071 | 7,603,667       | 171,570                | 19,227,117 |
| 1912 | 3,942,010       | 4,311,819 | 3,273,705 | 15,395 | 44,006 | 7,963,385       | 200,165                | 19,750,485 |
| 1913 | 4,062,147       | 4,348,142 | 3,285,761 | 14,770 | 42,978 | 8,560,819       | 228,760                | 20,543,377 |
| 1914 | 3,795,063       | 4,686,776 | 3,293,676 | 14,535 | 41,984 | 7,689,478       | 265,934                | 19,787,446 |
| 1915 | 3,764,734       | 5,750,726 | 3,183,958 | 13,646 | 41,025 | 6,743,655       | 300,248                | 19,797,992 |
| 1916 | 3,783,953       | 5,732,266 | 3,099,922 | 10,575 | 40,098 | 6,729,608       | 370,248                | 19,766,669 |
| 1917 | 3,655,621       | 5,714,160 | 3,068,812 | 9,083  | 39,203 | 4,645,286       | 434,072                | 17,566,237 |
| 1918 | 3,905,883       | 5,693,215 | 3,110,216 | 8,355  | 38,337 | 5,459,564       | 471,360                | 18,686,931 |
| 1919 | 4,028,665       | 5,536,769 | 3,068,442 | 8,161  | 35,898 | 5,114,279       | 435,102                | 18,227,314 |
| 1920 | 3,522,841       | 5,237,383 | 3,203,210 | 8,316  | 35,124 | 4,938,191       | 517,798                | 17,462,862 |
| 1921 | 3,869,147       | 5,330,835 | 3,408,324 | 8,216  | 34,376 | 5,895,745       | 488,288                | 19,034,932 |
| 1922 | 3,895,067       | 5,334,233 | 3,455,130 | 8,050  | 33,653 | 6,839,892       | 503,272                | 20,069,207 |
| 1923 | 4,014,752       | 5,471,522 | 3,466,137 | 7,899  | 32,954 | 7,146,498       | 615,936                | 20,755,699 |
| 1924 | 4,011,265       | 5,373,313 | 3,453,850 | 7,858  | 32,278 | 8,938,858       | 705,381                | 22,522,805 |
| 1925 | 4,230,736       | 5,471,862 | 3,446,433 | 7,361  | 31,625 | 8,614,946       | 789,336                | 22,592,300 |
| 1926 | 4,385,988       | 5,500,747 | 3,401,504 | 7,122  | 30,992 | 9,917,932       | 945,351                | 24,189,636 |
| 1927 | 4,346,379       | 5,416,471 | 3,329,824 | 7,063  | 30,380 | 11,238,234      | 992,361                | 25,360,712 |
| 1928 | 4,194,846       | 5,198,303 | 3,276,939 | 6,760  | 30,229 | 10,266,939      | 1,105,826              | 24,079,841 |
| 1929 | 4,361,908       | 5,168,059 | 3,181,034 | 6,605  | 30,102 | 11,923,108      | 1,175,140              | 25,845,955 |
| 1930 | 4,310,961       | 4,796,630 | 3,106,057 | 6,396  | 29,999 | 11,039,150      | 1,205,680              | 24,494,872 |
| 1931 | 4,090,604       | 4,531,566 | 3,080,456 | 6,240  | 29,920 | 9,663,302       | 1,190,238              | 22,592,326 |
| 1932 | 4,081,064       | 4,396,656 | 3,050,874 | 6,248  | 29,864 | 8,005,784       | 1,198,588              | 20,769,078 |
| 1933 | 4,249,069       | 4,251,551 | 2,999,166 | 6,060  | 29,831 | 8,831,482       | 1,321,432              | 21,688,591 |
| 1934 | 3,963,170       | 4,215,529 | 2,966,103 | 6,048  | 29,820 | 11,280,171      | 1,435,355              | 23,896,195 |
| 1935 | 4,017,818       | 4,163,876 | 2,917,393 | 5,880  | 29,831 | 12,828,180      | 1,569,294              | 25,532,272 |
| 1936 | 4,073,615       | 3,881,481 | 2,866,012 | 5,761  | 29,863 | 9,088,669       | 1,551,908              | 21,497,309 |
| 1937 | 4,382,306       | 4,159,118 | 2,843,774 | 5,586  | 29,916 | 12,599,735      | 1,736,288              | 25,756,724 |
| 1938 | 4,421,731       | 4,362,673 | 2,864,536 | 5,469  | 29,586 | 12,240,330      | 1,718,788              | 25,643,114 |
| 1939 | 4,348,836       | 4,428,599 | 2,858,256 | 5,539  | 29,268 | 12,134,425      | 2,025,327              | 25,830,249 |
| 1940 | 4,316,188       | 4,721,189 | 3,052,115 | 5,442  | 28,962 | 13,401,570      | 2,137,305              | 27,662,770 |
| 1941 | 4,175,768       | 6,411,818 | 3,019,555 | 4,784  | 28,668 | 10,810,350      | 2,304,757              | 26,755,701 |
| 1942 | 3,950,769       | 7,647,422 | 3,010,169 | 4,637  | 28,385 | 10,456,870      | 2,237,959              | 27,336,210 |
| 1943 | 3,558,445       | 6,862,766 | 2,689,731 | 4,053  | 28,112 | 7,850,139       | 2,046,716              | 23,039,962 |
| 1944 | 3,150,178       | 4,667,157 | 2,366,554 | 3,144  | 27,850 | 3,033,016       | 1,509,587              | 14,757,486 |
| 1945 | 2,956,918       | 4,477,874 | 2,313,094 | 2,909  | 27,598 | 2,528,140       | 1,415,453              | 13,721,987 |
| 1946 | 3,024,413       | 5,167,039 | 2,396,568 | 3,693  | 27,356 | 6,162,800       | 1,933,594              | 18,715,463 |
| 1947 | 3,645,318       | 5,159,130 | 2,690,493 | 3,995  | 27,536 | 11,056,015      | 2,255,345              | 24,837,831 |
| 1948 | 4,113,355       | 4,932,810 | 3,086,525 | 3,860  | 27,308 | 10,394,605      | 2,506,981              | 25,065,443 |
| 1949 | 4,235,287       | 4,632,315 | 3,189,056 | 3,868  | 27,088 | 12,187,978      | 2,125,066              | 26,400,658 |
| 1950 | 4,277,729       | 4,591,950 | 3,234,553 | 3,819  | 26,878 | 13,065,480      | 2,632,113              | 27,832,521 |
| 1951 | 3,979,553       | 4,588,083 | 3,079,140 | 3,812  | 15,153 | 15,936,145      | 3,188,571              | 30,790,458 |
| 1952 | 4,138,980       | 4,584,220 | 2,986,153 | 3,784  | 8,550  | 16,466,531      | 3,309,471              | 31,497,688 |
| 1953 | 4,289,188       | 4,580,359 | 2,889,793 | 3,675  | 4,828  | 18,481,409      | 3,388,965              | 33,638,217 |
| 1954 | 4,330,492       | 4,576,502 | 2,798,601 | 3,494  | 2,729  | 21,318,880      | 3,518,901              | 36,549,599 |
| 1955 | 4,374,090       | 4,572,648 | 2,641,666 | 3,377  | 1,544  | 22,707,200      | 3,737,367              | 38,037,891 |
| 1956 | 4,433,442       | 4,568,798 | 2,429,564 | 3,141  | 874    | 23,331,400      | 3,808,625              | 38,575,845 |
| 1957 | 4,490,936       | 4,564,950 | 2,353,615 | 3,061  | 495    | 26,860,895      | 3,902,646              | 42,176,597 |
| 1958 | 4,570,185       | 4,561,106 | 2,264,482 | 3,038  | 281    | 24,884,000      | 4,348,728              | 40,631,820 |
| 1959 | 4,638,766       | 4,557,265 | 2,182,554 | 2,947  | 160    | 30,477,560      | 4,651,377              | 46,510,628 |
| 1960 | 4,838,576       | 4,553,427 | 2,100,692 | 2,811  | 91     | 34,557,990      | 4,879,361              | 50,932,948 |

(*segue*)

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|      | 1               | 2         | 3         | 4     | 5     | 6               | 7                      |             |
|------|-----------------|-----------|-----------|-------|-------|-----------------|------------------------|-------------|
|      | Food<br>for men | Firewood  | Animals   | Wind  | Water | Fossil<br>fuels | Primary<br>Electricity | TOTAL       |
| 1961 | 4,975,202       | 4,549,593 | 2,006,478 | 2,729 | 52    | 39,962,085      | 4,509,974              | 56,006,112  |
| 1962 | 5,132,447       | 4,545,761 | 1,915,834 | 2,708 | 29    | 46,432,235      | 4,351,361              | 62,380,376  |
| 1963 | 5,289,546       | 4,541,933 | 1,836,600 | 2,644 | 17    | 51,501,905      | 5,089,831              | 68,262,475  |
| 1964 | 5,368,677       | 4,538,109 | 1,781,883 | 2,588 | 10    | 57,172,370      | 4,592,883              | 73,456,518  |
| 1965 | 5,445,549       | 4,534,287 | 1,597,298 | 2,610 | 5     | 64,036,910      | 5,015,649              | 80,632,309  |
| 1966 | 5,591,043       | 4,530,469 | 1,453,328 | 2,597 | 3     | 68,653,980      | 5,242,355              | 85,473,775  |
| 1967 | 5,755,473       | 4,526,654 | 1,313,540 | 2,582 | 2     | 76,320,825      | 5,137,019              | 93,056,095  |
| 1968 | 5,940,100       | 4,522,842 | 1,190,922 | 2,582 | 1     | 85,749,360      | 5,161,577              | 102,567,384 |
| 1969 | 6,065,219       | 4,519,033 | 1,082,605 | 2,568 | 1     | 92,939,805      | 4,964,909              | 109,574,139 |
| 1970 | 6,259,775       | 4,515,227 | 966,031   | 2,577 |       | 106,266,880     | 5,192,326              | 123,202,817 |
| 1971 | 6,397,962       | 4,511,425 | 869,102   | 2,565 |       | 110,784,175     | 4,841,509              | 127,406,739 |
| 1972 | 6,491,809       | 4,507,626 | 792,452   | 2,509 |       | 121,100,000     | 4,985,002              | 137,879,398 |
| 1973 | 6,678,755       | 4,503,830 | 727,606   | 2,355 |       | 129,800,000     | 4,630,126              | 146,342,672 |
| 1974 | 6,741,722       | 4,500,037 | 666,023   | 2,199 |       | 128,600,000     | 4,825,475              | 145,335,457 |
| 1975 | 6,788,080       | 4,496,248 | 616,814   | 2,188 |       | 121,700,000     | 5,220,131              | 138,823,461 |
| 1976 | 6,826,009       | 4,492,461 | 540,742   | 2,047 |       | 131,800,000     | 4,907,674              | 148,568,933 |
| 1977 | 6,850,304       | 4,488,678 | 474,718   | 1,953 |       | 127,100,000     | 6,229,756              | 145,145,410 |
| 1978 | 6,872,615       | 4,484,898 | 416,556   | 1,867 |       | 131,700,000     | 5,729,662              | 149,205,599 |
| 1979 | 6,891,951       | 4,481,122 | 365,680   | 1,735 |       | 136,300,000     | 5,960,225              | 154,000,714 |
| 1980 | 6,898,769       | 4,477,348 | 320,818   | 1,497 |       | 134,170,000     | 5,933,942              | 151,802,374 |
| 1981 | 6,913,271       | 4,473,578 | 281,522   | 1,429 |       | 131,099,000     | 6,163,794              | 148,932,594 |
| 1982 | 6,940,664       | 4,469,810 | 246,636   | 1,375 |       | 126,610,000     | 6,167,143              | 144,435,628 |
| 1983 | 6,969,545       | 4,466,046 | 216,580   | 1,291 |       | 125,500,000     | 6,473,917              | 143,627,378 |
| 1984 | 6,983,923       | 4,462,285 | 180,871   | 1,212 |       | 126,760,000     | 7,717,655              | 146,105,948 |
| 1985 | 7,003,012       | 4,458,528 |           | 1,140 |       | 129,050,000     | 7,912,294              | 148,424,974 |
| 1986 | 7,092,629       | 4,454,773 |           | 1,072 |       | 130,490,000     | 7,931,981              | 149,970,456 |
| 1987 | 7,106,263       | 4,451,022 |           | 1,010 |       | 137,880,000     | 6,991,059              | 156,429,354 |
| 1988 | 7,119,898       | 4,447,273 |           | 951   |       | 140,330,000     | 7,903,770              | 159,801,893 |
| 1989 | 7,130,310       | 4,443,528 |           | 897   |       | 145,820,000     | 7,546,865              | 164,941,600 |
| 1990 | 7,157,703       | 4,439,786 |           | 847   |       | 147,410,000     | 7,403,575              | 166,411,911 |
| 1991 | 7,035,115       | 4,436,047 |           | 799   |       | 148,330,000     | 8,511,128              | 168,313,090 |
| 1992 | 7,060,277       | 4,432,312 |           | 755   |       | 149,580,000     | 8,579,931              | 169,653,276 |
| 1993 | 7,082,341       | 4,428,579 |           | 714   |       | 147,310,000     | 8,888,227              | 167,709,862 |
| 1994 | 7,098,578       | 4,424,850 |           | 675   |       | 144,200,000     | 9,006,857              | 164,730,961 |
| 1995 | 7,098,578       | 4,421,124 |           | 639   |       | 153,000,000     | 8,400,920              | 172,921,262 |
| 1996 | 7,122,377       | 4,417,401 |           | 605   |       | 152,000,000     | 8,956,828              | 172,497,211 |
| 1997 | 7,135,020       | 4,413,681 |           | 573   |       | 154,400,000     | 9,073,631              | 175,022,906 |
| 1998 | 7,141,218       | 4,409,964 |           | 543   |       | 158,500,000     | 9,391,771              | 179,443,496 |
| 1999 | 7,149,523       | 4,406,250 |           | 515   |       | 160,600,000     | 10,005,827             | 182,162,115 |
| 2000 | 7,169,851       | 4,406,250 |           | 489   |       | 162,600,000     | 10,200,871             | 184,377,461 |

**2. The structure of energy consumption 1861-2000 (percentages)**

|      | 1               | 2        | 3       | 4    | 5     | 6               | 7                      |
|------|-----------------|----------|---------|------|-------|-----------------|------------------------|
|      | Food<br>for men | Firewood | Animals | Wind | Water | Fossil<br>fuels | Primary<br>Electricity |
| 1861 | 21.40           | 51.40    | 18.68   | 0.25 | 0.75  | 7.53            |                        |
| 1862 | 21.82           | 52.30    | 18.13   | 0.25 | 0.76  | 6.74            |                        |
| 1863 | 22.31           | 52.39    | 17.48   | 0.26 | 0.76  | 6.80            |                        |
| 1864 | 23.17           | 52.37    | 16.92   | 0.22 | 0.76  | 6.55            |                        |
| 1865 | 22.38           | 53.03    | 16.86   | 0.25 | 0.77  | 6.71            |                        |
| 1866 | 21.26           | 53.99    | 17.06   | 0.27 | 0.70  | 6.72            |                        |
| 1867 | 22.42           | 51.34    | 17.84   | 0.32 | 0.74  | 7.34            |                        |
| 1868 | 22.53           | 51.04    | 18.00   | 0.29 | 0.74  | 7.40            |                        |
| 1869 | 23.13           | 50.42    | 18.21   | 0.31 | 0.73  | 7.21            |                        |
| 1870 | 22.89           | 50.04    | 18.74   | 0.32 | 0.72  | 7.29            |                        |
| 1871 | 22.95           | 50.92    | 18.91   | 0.33 | 0.71  | 6.19            |                        |
| 1872 | 23.37           | 48.83    | 19.36   | 0.32 | 0.71  | 7.41            |                        |
| 1873 | 23.15           | 49.07    | 19.73   | 0.32 | 0.71  | 7.02            |                        |
| 1874 | 23.00           | 48.86    | 19.54   | 0.31 | 0.69  | 7.60            |                        |
| 1875 | 22.98           | 49.41    | 19.09   | 0.30 | 0.68  | 7.54            |                        |
| 1876 | 22.19           | 48.62    | 18.63   | 0.30 | 0.66  | 9.59            |                        |
| 1877 | 22.66           | 48.06    | 19.17   | 0.31 | 0.72  | 9.07            |                        |
| 1878 | 23.19           | 47.30    | 19.22   | 0.30 | 0.72  | 9.28            |                        |
| 1879 | 23.04           | 47.12    | 18.57   | 0.28 | 0.70  | 10.30           |                        |
| 1880 | 22.46           | 46.79    | 18.47   | 0.27 | 0.69  | 11.33           |                        |
| 1881 | 22.12           | 45.47    | 18.45   | 0.25 | 0.68  | 13.02           |                        |
| 1882 | 22.17           | 44.36    | 18.64   | 0.25 | 0.67  | 13.90           |                        |
| 1883 | 22.00           | 43.87    | 18.63   | 0.24 | 0.66  | 14.59           | 0.00                   |
| 1884 | 21.74           | 42.92    | 18.67   | 0.23 | 0.65  | 15.79           | 0.00                   |
| 1885 | 21.68           | 41.43    | 18.55   | 0.22 | 0.64  | 17.49           | 0.00                   |
| 1886 | 22.21           | 40.87    | 18.81   | 0.21 | 0.65  | 17.25           | 0.00                   |
| 1887 | 21.86           | 39.07    | 18.15   | 0.19 | 0.62  | 20.11           | 0.00                   |
| 1888 | 21.25           | 38.71    | 17.94   | 0.18 | 0.58  | 21.33           | 0.00                   |
| 1889 | 21.57           | 37.98    | 17.78   | 0.16 | 0.55  | 21.96           | 0.00                   |
| 1890 | 21.12           | 37.18    | 17.33   | 0.16 | 0.52  | 23.68           | 0.00                   |
| 1891 | 21.44           | 37.86    | 18.02   | 0.16 | 0.50  | 22.01           | 0.00                   |
| 1892 | 21.98           | 37.76    | 17.96   | 0.16 | 0.47  | 21.67           | 0.00                   |
| 1893 | 22.66           | 37.10    | 18.35   | 0.16 | 0.46  | 21.27           | 0.01                   |
| 1894 | 21.31           | 35.49    | 17.54   | 0.15 | 0.41  | 25.09           | 0.01                   |
| 1895 | 22.17           | 35.74    | 18.07   | 0.14 | 0.40  | 23.46           | 0.02                   |
| 1896 | 22.94           | 35.67    | 18.38   | 0.14 | 0.38  | 22.47           | 0.02                   |
| 1897 | 22.23           | 35.38    | 18.50   | 0.14 | 0.36  | 23.35           | 0.03                   |
| 1898 | 22.93           | 34.33    | 18.33   | 0.14 | 0.34  | 23.88           | 0.05                   |
| 1899 | 22.47           | 33.34    | 17.99   | 0.14 | 0.32  | 25.67           | 0.07                   |
| 1900 | 22.19           | 33.15    | 17.92   | 0.14 | 0.31  | 26.20           | 0.08                   |
| 1901 | 22.99           | 33.24    | 17.84   | 0.14 | 0.29  | 25.37           | 0.12                   |
| 1902 | 23.03           | 31.17    | 17.59   | 0.14 | 0.28  | 27.63           | 0.16                   |
| 1903 | 23.33           | 29.99    | 17.79   | 0.14 | 0.27  | 28.26           | 0.22                   |
| 1904 | 22.83           | 28.94    | 17.83   | 0.14 | 0.27  | 29.74           | 0.26                   |
| 1905 | 22.75           | 27.33    | 17.61   | 0.13 | 0.25  | 31.64           | 0.29                   |
| 1906 | 21.87           | 25.12    | 16.95   | 0.12 | 0.23  | 35.34           | 0.37                   |
| 1907 | 20.68           | 24.37    | 16.92   | 0.11 | 0.22  | 37.18           | 0.52                   |
| 1908 | 20.15           | 24.42    | 17.05   | 0.10 | 0.21  | 37.43           | 0.63                   |
| 1909 | 19.50           | 23.66    | 16.84   | 0.09 | 0.20  | 39.04           | 0.67                   |
| 1910 | 20.20           | 23.24    | 16.82   | 0.09 | 0.19  | 38.71           | 0.75                   |

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|      | 1               | 2        | 3       | 4    | 5     | 6               | 7                      |
|------|-----------------|----------|---------|------|-------|-----------------|------------------------|
|      | Food<br>for men | Firewood | Animals | Wind | Water | Fossil<br>fuels | Primary<br>Electricity |
| 1911 | 19.86           | 22.56    | 16.83   | 0.09 | 0.23  | 39.55           | 0.89                   |
| 1912 | 19.96           | 21.83    | 16.58   | 0.08 | 0.22  | 40.32           | 1.01                   |
| 1913 | 19.77           | 21.17    | 15.99   | 0.07 | 0.21  | 41.67           | 1.11                   |
| 1914 | 19.18           | 23.69    | 16.65   | 0.07 | 0.21  | 38.86           | 1.34                   |
| 1915 | 19.02           | 29.05    | 16.08   | 0.07 | 0.21  | 34.06           | 1.52                   |
| 1916 | 19.14           | 29.00    | 15.68   | 0.05 | 0.20  | 34.05           | 1.87                   |
| 1917 | 20.81           | 32.53    | 17.47   | 0.05 | 0.22  | 26.44           | 2.47                   |
| 1918 | 20.90           | 30.47    | 16.64   | 0.04 | 0.21  | 29.22           | 2.52                   |
| 1919 | 22.10           | 30.38    | 16.83   | 0.04 | 0.20  | 28.06           | 2.39                   |
| 1920 | 20.17           | 29.99    | 18.34   | 0.05 | 0.20  | 28.28           | 2.97                   |
| 1921 | 20.33           | 28.01    | 17.91   | 0.04 | 0.18  | 30.97           | 2.57                   |
| 1922 | 19.41           | 26.58    | 17.22   | 0.04 | 0.17  | 34.08           | 2.51                   |
| 1923 | 19.34           | 26.36    | 16.70   | 0.04 | 0.16  | 34.43           | 2.97                   |
| 1924 | 17.81           | 23.86    | 15.33   | 0.03 | 0.14  | 39.69           | 3.13                   |
| 1925 | 18.73           | 24.22    | 15.25   | 0.03 | 0.14  | 38.13           | 3.49                   |
| 1926 | 18.13           | 22.74    | 14.06   | 0.03 | 0.13  | 41.00           | 3.91                   |
| 1927 | 17.14           | 21.36    | 13.13   | 0.03 | 0.12  | 44.31           | 3.91                   |
| 1928 | 17.42           | 21.59    | 13.61   | 0.03 | 0.13  | 42.64           | 4.59                   |
| 1929 | 16.88           | 20.00    | 12.31   | 0.03 | 0.12  | 46.13           | 4.55                   |
| 1930 | 17.60           | 19.58    | 12.68   | 0.03 | 0.12  | 45.07           | 4.92                   |
| 1931 | 18.11           | 20.06    | 13.63   | 0.03 | 0.13  | 42.77           | 5.27                   |
| 1932 | 19.65           | 21.17    | 14.69   | 0.03 | 0.14  | 38.55           | 5.77                   |
| 1933 | 19.59           | 19.60    | 13.83   | 0.03 | 0.14  | 40.72           | 6.09                   |
| 1934 | 16.58           | 17.64    | 12.41   | 0.03 | 0.12  | 47.20           | 6.01                   |
| 1935 | 15.74           | 16.31    | 11.43   | 0.02 | 0.12  | 50.24           | 6.15                   |
| 1936 | 18.95           | 18.06    | 13.33   | 0.03 | 0.14  | 42.28           | 7.22                   |
| 1937 | 17.01           | 16.15    | 11.04   | 0.02 | 0.12  | 48.92           | 6.74                   |
| 1938 | 17.24           | 17.01    | 11.17   | 0.02 | 0.12  | 47.73           | 6.70                   |
| 1939 | 16.84           | 17.15    | 11.07   | 0.02 | 0.11  | 46.98           | 7.84                   |
| 1940 | 15.60           | 17.07    | 11.03   | 0.02 | 0.10  | 48.45           | 7.73                   |
| 1941 | 15.61           | 23.96    | 11.29   | 0.02 | 0.11  | 40.40           | 8.61                   |
| 1942 | 14.45           | 27.98    | 11.01   | 0.02 | 0.10  | 38.25           | 8.19                   |
| 1943 | 15.44           | 29.79    | 11.67   | 0.02 | 0.12  | 34.07           | 8.88                   |
| 1944 | 21.35           | 31.63    | 16.04   | 0.02 | 0.19  | 20.55           | 10.23                  |
| 1945 | 21.55           | 32.63    | 16.86   | 0.02 | 0.20  | 18.42           | 10.32                  |
| 1946 | 16.16           | 27.61    | 12.81   | 0.02 | 0.15  | 32.93           | 10.33                  |
| 1947 | 14.68           | 20.77    | 10.83   | 0.02 | 0.11  | 44.51           | 9.08                   |
| 1948 | 16.41           | 19.68    | 12.31   | 0.02 | 0.11  | 41.47           | 10.00                  |
| 1949 | 16.04           | 17.55    | 12.08   | 0.01 | 0.10  | 46.17           | 8.05                   |
| 1950 | 15.37           | 16.50    | 11.62   | 0.01 | 0.10  | 46.94           | 9.46                   |
| 1951 | 12.92           | 14.90    | 10.00   | 0.01 | 0.05  | 51.76           | 10.36                  |
| 1952 | 13.14           | 14.55    | 9.48    | 0.01 | 0.03  | 52.28           | 10.51                  |
| 1953 | 12.75           | 13.62    | 8.59    | 0.01 | 0.01  | 54.94           | 10.07                  |
| 1954 | 11.85           | 12.52    | 7.66    | 0.01 | 0.01  | 58.33           | 9.63                   |
| 1955 | 11.50           | 12.02    | 6.94    | 0.01 | 0.00  | 59.70           | 9.83                   |
| 1956 | 11.49           | 11.84    | 6.30    | 0.01 | 0.00  | 60.48           | 9.87                   |
| 1957 | 10.65           | 10.82    | 5.58    | 0.01 | 0.00  | 63.69           | 9.25                   |
| 1958 | 11.25           | 11.23    | 5.57    | 0.01 | 0.00  | 61.24           | 10.70                  |
| 1959 | 9.97            | 9.80     | 4.69    | 0.01 | 0.00  | 65.53           | 10.00                  |
| 1960 | 9.50            | 8.94     | 4.12    | 0.01 | 0.00  | 67.85           | 9.58                   |

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|      | 1               | 2        | 3       | 4    | 5     | 6               | 7                      |
|------|-----------------|----------|---------|------|-------|-----------------|------------------------|
|      | Food<br>for men | Firewood | Animals | Wind | Water | Fossil<br>fuels | Primary<br>Electricity |
| 1961 | 8.88            | 8.12     | 3.58    | 0.00 | 0.00  | 71.35           | 8.05                   |
| 1962 | 8.23            | 7.29     | 3.07    | 0.00 | 0.00  | 74.43           | 6.98                   |
| 1963 | 7.75            | 6.65     | 2.69    | 0.00 | 0.00  | 75.45           | 7.46                   |
| 1964 | 7.31            | 6.18     | 2.43    | 0.00 | 0.00  | 77.83           | 6.25                   |
| 1965 | 6.75            | 5.62     | 1.98    | 0.00 | 0.00  | 79.42           | 6.22                   |
| 1966 | 6.54            | 5.30     | 1.70    | 0.00 | 0.00  | 80.32           | 6.13                   |
| 1967 | 6.18            | 4.86     | 1.41    | 0.00 | 0.00  | 82.02           | 5.52                   |
| 1968 | 5.79            | 4.41     | 1.16    | 0.00 | 0.00  | 83.60           | 5.03                   |
| 1969 | 5.54            | 4.12     | 0.99    | 0.00 | 0.00  | 84.82           | 4.53                   |
| 1970 | 5.08            | 3.66     | 0.78    | 0.00 | 0.00  | 86.25           | 4.21                   |
| 1971 | 5.02            | 3.54     | 0.68    | 0.00 | 0.00  | 86.95           | 3.80                   |
| 1972 | 4.71            | 3.27     | 0.57    | 0.00 | 0.00  | 87.83           | 3.62                   |
| 1973 | 4.56            | 3.08     | 0.50    | 0.00 | 0.00  | 88.70           | 3.16                   |
| 1974 | 4.64            | 3.10     | 0.46    | 0.00 | 0.00  | 88.48           | 3.32                   |
| 1975 | 4.89            | 3.24     | 0.44    | 0.00 | 0.00  | 87.67           | 3.76                   |
| 1976 | 4.59            | 3.02     | 0.36    | 0.00 | 0.00  | 88.71           | 3.30                   |
| 1977 | 4.72            | 3.09     | 0.33    | 0.00 | 0.00  | 87.57           | 4.29                   |
| 1978 | 4.61            | 3.01     | 0.28    | 0.00 | 0.00  | 88.27           | 3.84                   |
| 1979 | 4.48            | 2.91     | 0.24    | 0.00 | 0.00  | 88.51           | 3.87                   |
| 1980 | 4.54            | 2.95     | 0.21    | 0.00 | 0.00  | 88.38           | 3.91                   |
| 1981 | 4.64            | 3.00     | 0.19    | 0.00 | 0.00  | 88.03           | 4.14                   |
| 1982 | 4.81            | 3.09     | 0.17    | 0.00 | 0.00  | 87.66           | 4.27                   |
| 1983 | 4.85            | 3.11     | 0.15    | 0.00 | 0.00  | 87.38           | 4.51                   |
| 1984 | 4.78            | 3.05     | 0.12    | 0.00 | 0.00  | 86.76           | 5.28                   |
| 1985 | 4.72            | 3.00     | 0.00    | 0.00 | 0.00  | 86.95           | 5.33                   |
| 1986 | 4.73            | 2.97     | 0.00    | 0.00 | 0.00  | 87.01           | 5.29                   |
| 1987 | 4.54            | 2.85     | 0.00    | 0.00 | 0.00  | 88.14           | 4.47                   |
| 1988 | 4.46            | 2.78     | 0.00    | 0.00 | 0.00  | 87.81           | 4.95                   |
| 1989 | 4.32            | 2.69     | 0.00    | 0.00 | 0.00  | 88.41           | 4.58                   |
| 1990 | 4.30            | 2.67     | 0.00    | 0.00 | 0.00  | 88.58           | 4.45                   |
| 1991 | 4.18            | 2.64     | 0.00    | 0.00 | 0.00  | 88.13           | 5.06                   |
| 1992 | 4.16            | 2.61     | 0.00    | 0.00 | 0.00  | 88.17           | 5.06                   |
| 1993 | 4.22            | 2.64     | 0.00    | 0.00 | 0.00  | 87.84           | 5.30                   |
| 1994 | 4.31            | 2.69     | 0.00    | 0.00 | 0.00  | 87.54           | 5.47                   |
| 1995 | 4.11            | 2.56     | 0.00    | 0.00 | 0.00  | 88.48           | 4.86                   |
| 1996 | 4.13            | 2.56     | 0.00    | 0.00 | 0.00  | 88.12           | 5.19                   |
| 1997 | 4.08            | 2.52     | 0.00    | 0.00 | 0.00  | 88.22           | 5.18                   |
| 1998 | 3.98            | 2.46     | 0.00    | 0.00 | 0.00  | 88.33           | 5.23                   |
| 1999 | 3.92            | 2.42     | 0.00    | 0.00 | 0.00  | 88.16           | 5.49                   |
| 2000 | 3.89            | 2.39     | 0.00    | 0.00 | 0.00  | 88.19           | 5.53                   |

## 3. Per capita energy consumption 1861-2000

(in Toe per year, kcal per year, kjoules per year, kcal per day, kjoules per day)

|      | Population | Per c.                        | Per c.                         | Per c.                       | Per c.                        | Per c.                      |
|------|------------|-------------------------------|--------------------------------|------------------------------|-------------------------------|-----------------------------|
|      | (000)      | consumption<br>(Toe per year) | consumption<br>(kcal per year) | consumption<br>(kj per year) | consumption<br>(kcal per day) | consumption<br>(kj per day) |
| 1861 | 25,756     | 0.43                          | 4,301,758                      | 18,010,602                   | 11,786                        | 49,344                      |
| 1862 | 25,933     | 0.42                          | 4,231,096                      | 17,714,751                   | 11,592                        | 48,534                      |
| 1863 | 26,110     | 0.42                          | 4,227,272                      | 17,698,741                   | 11,582                        | 48,490                      |
| 1864 | 26,289     | 0.42                          | 4,232,601                      | 17,721,054                   | 11,596                        | 48,551                      |
| 1865 | 26,470     | 0.42                          | 4,183,467                      | 17,515,338                   | 11,462                        | 47,987                      |
| 1866 | 26,652     | 0.41                          | 4,112,567                      | 17,218,495                   | 11,267                        | 47,174                      |
| 1867 | 26,835     | 0.39                          | 3,871,161                      | 16,207,777                   | 10,606                        | 44,405                      |
| 1868 | 27,019     | 0.39                          | 3,896,636                      | 16,314,436                   | 10,676                        | 44,697                      |
| 1869 | 27,203     | 0.39                          | 3,948,109                      | 16,529,942                   | 10,817                        | 45,288                      |
| 1870 | 27,390     | 0.40                          | 3,981,703                      | 16,670,595                   | 10,909                        | 45,673                      |
| 1871 | 27,578     | 0.39                          | 3,915,858                      | 16,394,915                   | 10,728                        | 44,918                      |
| 1872 | 27,748     | 0.39                          | 3,916,728                      | 16,398,559                   | 10,731                        | 44,928                      |
| 1873 | 27,886     | 0.39                          | 3,919,102                      | 16,408,497                   | 10,737                        | 44,955                      |
| 1874 | 27,982     | 0.40                          | 4,014,572                      | 16,808,209                   | 10,999                        | 46,050                      |
| 1875 | 28,258     | 0.41                          | 4,093,255                      | 17,137,641                   | 11,214                        | 46,952                      |
| 1876 | 28,428     | 0.42                          | 4,195,277                      | 17,564,787                   | 11,494                        | 48,123                      |
| 1877 | 28,598     | 0.41                          | 4,063,226                      | 17,011,916                   | 11,132                        | 46,608                      |
| 1878 | 28,768     | 0.40                          | 4,040,996                      | 16,918,841                   | 11,071                        | 46,353                      |
| 1879 | 28,938     | 0.42                          | 4,186,089                      | 17,526,318                   | 11,469                        | 48,017                      |
| 1880 | 29,108     | 0.42                          | 4,242,055                      | 17,760,635                   | 11,622                        | 48,659                      |
| 1881 | 29,278     | 0.43                          | 4,268,250                      | 17,870,311                   | 11,694                        | 48,960                      |
| 1882 | 29,493     | 0.43                          | 4,295,198                      | 17,983,133                   | 11,768                        | 49,269                      |
| 1883 | 29,707     | 0.44                          | 4,366,369                      | 18,281,115                   | 11,963                        | 50,085                      |
| 1884 | 29,921     | 0.44                          | 4,418,867                      | 18,500,913                   | 12,106                        | 50,687                      |
| 1885 | 30,135     | 0.45                          | 4,497,248                      | 18,829,079                   | 12,321                        | 51,587                      |
| 1886 | 30,350     | 0.45                          | 4,466,298                      | 18,699,498                   | 12,236                        | 51,232                      |
| 1887 | 30,564     | 0.46                          | 4,625,537                      | 19,366,199                   | 12,673                        | 53,058                      |
| 1888 | 30,779     | 0.46                          | 4,641,253                      | 19,431,998                   | 12,716                        | 53,238                      |
| 1889 | 30,993     | 0.46                          | 4,620,072                      | 19,343,316                   | 12,658                        | 52,995                      |
| 1890 | 31,207     | 0.46                          | 4,638,288                      | 19,419,583                   | 12,708                        | 53,204                      |
| 1891 | 31,421     | 0.45                          | 4,463,274                      | 18,686,837                   | 12,228                        | 51,197                      |
| 1892 | 31,637     | 0.45                          | 4,473,990                      | 18,731,703                   | 12,258                        | 51,320                      |
| 1893 | 31,851     | 0.44                          | 4,382,390                      | 18,348,191                   | 12,007                        | 50,269                      |
| 1894 | 32,065     | 0.46                          | 4,595,966                      | 19,242,389                   | 12,592                        | 52,719                      |
| 1895 | 32,279     | 0.45                          | 4,491,946                      | 18,806,881                   | 12,307                        | 51,526                      |
| 1896 | 32,493     | 0.44                          | 4,418,715                      | 18,500,275                   | 12,106                        | 50,686                      |
| 1897 | 32,707     | 0.44                          | 4,405,221                      | 18,443,778                   | 12,069                        | 50,531                      |
| 1898 | 32,921     | 0.44                          | 4,444,929                      | 18,610,030                   | 12,178                        | 50,986                      |
| 1899 | 33,134     | 0.45                          | 4,503,645                      | 18,855,859                   | 12,339                        | 51,660                      |
| 1900 | 33,343     | 0.45                          | 4,485,089                      | 18,778,172                   | 12,288                        | 51,447                      |
| 1901 | 33,513     | 0.45                          | 4,507,167                      | 18,870,607                   | 12,348                        | 51,700                      |
| 1902 | 33,695     | 0.46                          | 4,571,647                      | 19,140,572                   | 12,525                        | 52,440                      |
| 1903 | 33,813     | 0.45                          | 4,545,830                      | 19,032,480                   | 12,454                        | 52,144                      |
| 1904 | 34,071     | 0.46                          | 4,559,101                      | 19,088,045                   | 12,491                        | 52,296                      |
| 1905 | 34,192     | 0.47                          | 4,653,749                      | 19,484,317                   | 12,750                        | 53,382                      |
| 1906 | 34,355     | 0.49                          | 4,948,618                      | 20,718,876                   | 13,558                        | 56,764                      |
| 1907 | 34,594     | 0.51                          | 5,056,414                      | 21,170,194                   | 13,853                        | 58,001                      |
| 1908 | 34,930     | 0.51                          | 5,085,959                      | 21,293,892                   | 13,934                        | 58,339                      |
| 1909 | 35,202     | 0.53                          | 5,338,561                      | 22,351,489                   | 14,626                        | 61,237                      |
| 1910 | 35,560     | 0.53                          | 5,345,260                      | 22,379,537                   | 14,645                        | 61,314                      |

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(*segue*)

|      | Population<br>(000) | Per c.<br>consumption<br>(Toe per year) | Per c.<br>consumption<br>(kcal per year) | Per c.<br>consumption<br>(kj per year) | Per c.<br>consumption<br>(kcal per day) | Per c.<br>consumption<br>(kj per day) |
|------|---------------------|---|--|--|---|---------------------------------------|
| 1911 | 35,905              | 0.54                                    | 5,354,997                                | 22,420,302                             | 14,671                                  | 61,425                                |
| 1912 | 36,181              | 0.55                                    | 5,458,800                                | 22,854,904                             | 14,956                                  | 62,616                                |
| 1913 | 36,275              | 0.57                                    | 5,663,233                                | 23,710,823                             | 15,516                                  | 64,961                                |
| 1914 | 37,241              | 0.53                                    | 5,313,350                                | 22,245,933                             | 14,557                                  | 60,948                                |
| 1915 | 37,726              | 0.52                                    | 5,247,837                                | 21,971,646                             | 14,378                                  | 60,196                                |
| 1916 | 37,713              | 0.52                                    | 5,241,341                                | 21,944,446                             | 14,360                                  | 60,122                                |
| 1917 | 37,463              | 0.47                                    | 4,688,956                                | 19,631,722                             | 12,846                                  | 53,786                                |
| 1918 | 36,849              | 0.51                                    | 5,071,218                                | 21,232,175                             | 13,894                                  | 58,170                                |
| 1919 | 36,890              | 0.49                                    | 4,940,991                                | 20,686,940                             | 13,537                                  | 56,677                                |
| 1920 | 37,122              | 0.47                                    | 4,704,181                                | 19,695,467                             | 12,888                                  | 53,960                                |
| 1921 | 37,452              | 0.51                                    | 5,082,487                                | 21,279,358                             | 13,925                                  | 58,300                                |
| 1922 | 37,796              | 0.53                                    | 5,309,876                                | 22,231,388                             | 14,548                                  | 60,908                                |
| 1923 | 38,063              | 0.55                                    | 5,452,986                                | 22,830,560                             | 14,940                                  | 62,549                                |
| 1924 | 38,351              | 0.59                                    | 5,872,808                                | 24,588,272                             | 16,090                                  | 67,365                                |
| 1925 | 38,715              | 0.58                                    | 5,835,542                                | 24,432,246                             | 15,988                                  | 66,938                                |
| 1926 | 39,044              | 0.62                                    | 6,195,481                                | 25,939,240                             | 16,974                                  | 71,066                                |
| 1927 | 39,414              | 0.64                                    | 6,434,443                                | 26,939,724                             | 17,629                                  | 73,807                                |
| 1928 | 39,801              | 0.61                                    | 6,050,059                                | 25,330,388                             | 16,576                                  | 69,398                                |
| 1929 | 40,113              | 0.64                                    | 6,443,286                                | 26,976,751                             | 17,653                                  | 73,909                                |
| 1930 | 40,473              | 0.61                                    | 6,052,151                                | 25,339,148                             | 16,581                                  | 69,422                                |
| 1931 | 40,814              | 0.55                                    | 5,535,435                                | 23,175,761                             | 15,166                                  | 63,495                                |
| 1932 | 41,152              | 0.50                                    | 5,046,918                                | 21,130,437                             | 13,827                                  | 57,892                                |
| 1933 | 41,494              | 0.52                                    | 5,226,922                                | 21,884,078                             | 14,320                                  | 59,956                                |
| 1934 | 41,842              | 0.57                                    | 5,711,055                                | 23,911,044                             | 15,647                                  | 65,510                                |
| 1935 | 42,194              | 0.61                                    | 6,051,162                                | 25,335,004                             | 16,579                                  | 69,411                                |
| 1936 | 42,503              | 0.51                                    | 5,057,833                                | 21,176,136                             | 13,857                                  | 58,017                                |
| 1937 | 42,797              | 0.60                                    | 6,018,348                                | 25,197,619                             | 16,489                                  | 69,035                                |
| 1938 | 43,154              | 0.59                                    | 5,942,233                                | 24,878,943                             | 16,280                                  | 68,161                                |
| 1939 | 43,633              | 0.59                                    | 5,919,888                                | 24,785,388                             | 16,219                                  | 67,905                                |
| 1940 | 44,047              | 0.63                                    | 6,280,285                                | 26,294,296                             | 17,206                                  | 72,039                                |
| 1941 | 44,357              | 0.60                                    | 6,031,900                                | 25,254,361                             | 16,526                                  | 69,190                                |
| 1942 | 44,580              | 0.61                                    | 6,131,945                                | 25,673,227                             | 16,800                                  | 70,338                                |
| 1943 | 44,762              | 0.51                                    | 5,147,214                                | 21,550,358                             | 14,102                                  | 59,042                                |
| 1944 | 44,890              | 0.33                                    | 3,287,477                                | 13,764,010                             | 9,007                                   | 37,710                                |
| 1945 | 45,076              | 0.30                                    | 3,044,189                                | 12,745,411                             | 8,340                                   | 34,919                                |
| 1946 | 45,497              | 0.41                                    | 4,113,560                                | 17,222,652                             | 11,270                                  | 47,185                                |
| 1947 | 45,830              | 0.54                                    | 5,419,557                                | 22,690,602                             | 14,848                                  | 62,166                                |
| 1948 | 46,177              | 0.54                                    | 5,428,123                                | 22,726,465                             | 14,872                                  | 62,264                                |
| 1949 | 46,437              | 0.57                                    | 5,685,263                                | 23,803,061                             | 15,576                                  | 65,214                                |
| 1950 | 46,768              | 0.60                                    | 5,951,189                                | 24,916,439                             | 16,305                                  | 68,264                                |
| 1951 | 47,223              | 0.65                                    | 6,520,225                                | 27,298,877                             | 17,864                                  | 74,791                                |
| 1952 | 47,411              | 0.66                                    | 6,643,540                                | 27,815,174                             | 18,201                                  | 76,206                                |
| 1952 | 47,411              | 0.66                                    | 6,643,540                                | 27,815,174                             | 18,201                                  | 76,206                                |
| 1953 | 47,655              | 0.71                                    | 7,058,696                                | 29,553,350                             | 19,339                                  | 80,968                                |
| 1954 | 47,940              | 0.76                                    | 7,624,030                                | 31,920,288                             | 20,888                                  | 87,453                                |
| 1955 | 48,185              | 0.79                                    | 7,894,135                                | 33,051,165                             | 21,628                                  | 90,551                                |
| 1956 | 48,732              | 0.79                                    | 7,915,917                                | 33,142,359                             | 21,687                                  | 90,801                                |
| 1957 | 48,589              | 0.87                                    | 8,680,277                                | 36,342,583                             | 23,782                                  | 99,569                                |
| 1958 | 48,885              | 0.83                                    | 8,311,715                                | 34,799,490                             | 22,772                                  | 95,341                                |
| 1959 | 48,604              | 0.96                                    | 9,569,301                                | 40,064,747                             | 26,217                                  | 109,766                               |
| 1960 | 48,967              | 1.04                                    | 10,401,484                               | 43,548,934                             | 28,497                                  | 119,312                               |

(*segue*)

(segue)

|      | Population | Per c.<br>consumption | Per c.<br>consumption | Per c.<br>consumption | Per c.<br>consumption | Per c.<br>consumption |
|------|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|      | (000)      | (Toe per year)        | (kcal per year)       | (kj per year)         | (kcal per day)        | (kj per day)          |
| 1961 | 49,156     | 1.14                  | 11,393,545            | 47,702,496            | 31,215                | 130,692               |
| 1962 | 49,563     | 1.26                  | 12,586,077            | 52,695,389            | 34,482                | 144,371               |
| 1963 | 49,936     | 1.37                  | 13,669,993            | 57,233,525            | 37,452                | 156,804               |
| 1964 | 50,439     | 1.46                  | 14,563,437            | 60,974,197            | 39,900                | 167,053               |
| 1965 | 50,840     | 1.59                  | 15,860,014            | 66,402,705            | 43,452                | 181,925               |
| 1966 | 51,227     | 1.67                  | 16,685,298            | 69,858,004            | 45,713                | 191,392               |
| 1967 | 51,664     | 1.80                  | 18,011,787            | 75,411,749            | 49,347                | 206,608               |
| 1968 | 52,042     | 1.97                  | 19,708,578            | 82,515,876            | 53,996                | 226,071               |
| 1969 | 52,376     | 2.09                  | 20,920,677            | 87,590,692            | 57,317                | 239,974               |
| 1970 | 52,771     | 2.33                  | 23,346,690            | 97,747,921            | 63,964                | 267,803               |
| 1971 | 53,124     | 2.40                  | 23,982,896            | 100,411,591           | 65,707                | 275,100               |
| 1972 | 53,499     | 2.58                  | 25,772,332            | 107,903,599           | 70,609                | 295,626               |
| 1973 | 53,882     | 2.72                  | 27,159,844            | 113,712,835           | 74,411                | 311,542               |
| 1974 | 54,390     | 2.67                  | 26,720,989            | 111,875,435           | 73,208                | 306,508               |
| 1975 | 54,764     | 2.53                  | 25,349,401            | 106,132,873           | 69,450                | 290,775               |
| 1976 | 55,070     | 2.70                  | 26,978,197            | 112,952,317           | 73,913                | 309,458               |
| 1977 | 55,266     | 2.63                  | 26,263,057            | 109,958,166           | 71,954                | 301,255               |
| 1978 | 55,446     | 2.69                  | 26,910,074            | 112,667,100           | 73,726                | 308,677               |
| 1979 | 55,602     | 2.77                  | 27,696,974            | 115,961,690           | 75,882                | 317,703               |
| 1980 | 55,657     | 2.73                  | 27,274,624            | 114,193,395           | 74,725                | 312,859               |
| 1981 | 55,774     | 2.67                  | 26,702,871            | 111,799,581           | 73,159                | 306,300               |
| 1982 | 55,995     | 2.58                  | 25,794,380            | 107,995,908           | 70,670                | 295,879               |
| 1983 | 56,228     | 2.55                  | 25,543,747            | 106,946,558           | 69,983                | 293,004               |
| 1984 | 56,344     | 2.59                  | 25,931,057            | 108,568,150           | 71,044                | 297,447               |
| 1985 | 56,498     | 2.63                  | 26,270,837            | 109,990,739           | 71,975                | 301,344               |
| 1986 | 57,221     | 2.62                  | 26,208,989            | 109,731,795           | 71,805                | 300,635               |
| 1987 | 57,331     | 2.73                  | 27,285,300            | 114,238,094           | 74,754                | 312,981               |
| 1988 | 57,441     | 2.78                  | 27,820,179            | 116,477,527           | 76,220                | 319,117               |
| 1989 | 57,525     | 2.87                  | 28,673,029            | 120,048,239           | 78,556                | 328,899               |
| 1990 | 57,746     | 2.88                  | 28,817,911            | 120,654,832           | 78,953                | 330,561               |
| 1991 | 56,757     | 2.97                  | 29,655,036            | 124,159,706           | 81,247                | 340,164               |
| 1992 | 56,960     | 2.98                  | 29,784,634            | 124,702,306           | 81,602                | 341,650               |
| 1993 | 57,138     | 2.94                  | 29,351,721            | 122,889,784           | 80,416                | 336,684               |
| 1994 | 57,269     | 2.88                  | 28,764,421            | 120,430,877           | 78,807                | 329,948               |
| 1995 | 57,269     | 3.02                  | 30,194,566            | 126,418,610           | 82,725                | 346,352               |
| 1996 | 57,461     | 3.00                  | 30,019,876            | 125,687,218           | 82,246                | 344,349               |
| 1997 | 57,563     | 3.04                  | 30,405,452            | 127,301,548           | 83,303                | 348,771               |
| 1998 | 57,613     | 3.11                  | 31,146,355            | 130,403,560           | 85,332                | 357,270               |
| 1999 | 57,680     | 3.16                  | 31,581,504            | 132,225,441           | 86,525                | 362,261               |
| 2000 | 57,844     | 3.19                  | 31,874,950            | 133,454,041           | 87,329                | 365,628               |



**II**

**The energy carriers**





## 1. Food for men (Appendix I, 1, col. 1)

|      | Population<br>(present)<br>(x000) | Food<br>per c. kcal<br>per day | Food<br>Per c. kjoules<br>per day | Total<br>Toe<br>per year | Total<br>Petajoules<br>Per year |
|------|-----------------------------------|--------------------------------|-----------------------------------|--------------------------|---------------------------------|
| 1861 | 25,756                            | 2,522                          | 10,559                            | 2,370,917                | 99                              |
| 1862 | 25,933                            | 2,529                          | 10,588                            | 2,393,836                | 100                             |
| 1863 | 26,110                            | 2,584                          | 10,819                            | 2,462,591                | 103                             |
| 1864 | 26,289                            | 2,687                          | 11,250                            | 2,578,307                | 108                             |
| 1865 | 26,470                            | 2,565                          | 10,739                            | 2,478,188                | 104                             |
| 1866 | 26,652                            | 2,395                          | 10,027                            | 2,329,851                | 98                              |
| 1867 | 26,835                            | 2,378                          | 9,956                             | 2,329,197                | 97                              |
| 1868 | 27,019                            | 2,405                          | 10,069                            | 2,371,795                | 99                              |
| 1869 | 27,203                            | 2,502                          | 10,475                            | 2,484,260                | 104                             |
| 1870 | 27,390                            | 2,497                          | 10,454                            | 2,496,338                | 104                             |
| 1871 | 27,578                            | 2,462                          | 10,308                            | 2,478,242                | 104                             |
| 1872 | 27,748                            | 2,508                          | 10,500                            | 2,540,107                | 106                             |
| 1873 | 27,886                            | 2,486                          | 10,408                            | 2,530,348                | 106                             |
| 1874 | 27,982                            | 2,530                          | 10,593                            | 2,583,998                | 108                             |
| 1875 | 28,258                            | 2,577                          | 10,789                            | 2,657,962                | 111                             |
| 1876 | 28,428                            | 2,551                          | 10,681                            | 2,646,974                | 111                             |
| 1877 | 28,598                            | 2,523                          | 10,563                            | 2,633,576                | 110                             |
| 1878 | 28,768                            | 2,567                          | 10,748                            | 2,695,432                | 113                             |
| 1879 | 28,938                            | 2,642                          | 11,062                            | 2,790,578                | 117                             |
| 1880 | 29,108                            | 2,610                          | 10,928                            | 2,772,974                | 116                             |
| 1881 | 29,278                            | 2,587                          | 10,831                            | 2,764,590                | 116                             |
| 1882 | 29,493                            | 2,609                          | 10,923                            | 2,808,574                | 118                             |
| 1883 | 29,707                            | 2,632                          | 11,020                            | 2,853,892                | 119                             |
| 1884 | 29,921                            | 2,632                          | 11,020                            | 2,874,451                | 120                             |
| 1885 | 30,135                            | 2,671                          | 11,183                            | 2,937,906                | 123                             |
| 1886 | 30,350                            | 2,718                          | 11,380                            | 3,010,932                | 126                             |
| 1887 | 30,564                            | 2,770                          | 11,597                            | 3,090,173                | 129                             |
| 1888 | 30,779                            | 2,702                          | 11,313                            | 3,035,517                | 127                             |
| 1889 | 30,993                            | 2,730                          | 11,430                            | 3,088,297                | 129                             |
| 1890 | 31,207                            | 2,684                          | 11,237                            | 3,057,225                | 128                             |
| 1891 | 31,421                            | 2,622                          | 10,978                            | 3,007,084                | 126                             |
| 1892 | 31,637                            | 2,694                          | 11,279                            | 3,110,898                | 130                             |
| 1893 | 31,851                            | 2,721                          | 11,392                            | 3,163,330                | 132                             |
| 1894 | 32,065                            | 2,683                          | 11,233                            | 3,140,109                | 131                             |
| 1895 | 32,279                            | 2,728                          | 11,422                            | 3,214,085                | 135                             |
| 1896 | 32,493                            | 2,777                          | 11,627                            | 3,293,507                | 138                             |
| 1897 | 32,707                            | 2,683                          | 11,233                            | 3,202,980                | 134                             |
| 1898 | 32,921                            | 2,792                          | 11,690                            | 3,354,913                | 140                             |
| 1899 | 33,134                            | 2,772                          | 11,606                            | 3,352,432                | 140                             |
| 1900 | 33,343                            | 2,727                          | 11,417                            | 3,318,812                | 139                             |
| 1901 | 33,513                            | 2,839                          | 11,886                            | 3,472,734                | 145                             |
| 1902 | 33,695                            | 2,885                          | 12,079                            | 3,548,168                | 148                             |
| 1903 | 33,813                            | 2,905                          | 12,163                            | 3,585,277                | 150                             |
| 1904 | 34,071                            | 2,851                          | 11,937                            | 3,545,479                | 148                             |
| 1905 | 34,192                            | 2,901                          | 12,146                            | 3,620,471                | 152                             |
| 1906 | 34,355                            | 2,965                          | 12,414                            | 3,717,984                | 156                             |
| 1907 | 34,594                            | 2,865                          | 11,995                            | 3,617,581                | 151                             |
| 1908 | 34,930                            | 2,808                          | 11,757                            | 3,580,046                | 150                             |
| 1909 | 35,202                            | 2,852                          | 11,941                            | 3,664,458                | 153                             |
| 1910 | 35,560                            | 2,958                          | 12,385                            | 3,839,307                | 161                             |

(segue)

*(segue)*

|      | <b>Population</b><br>(present)<br>(x000) | <b>Food</b><br>per c. kcal<br>per day | <b>Food</b><br>Per c. kjoules<br>per day | <b>Total</b><br>Toe<br>per year | <b>Total</b><br>Petajoules<br>Per year |
|------|--|---------------------------------------|--|---------------------------------|--|
| 1911 | 35,905                                   | 2,913                                 | 12,196                                   | 3,817,581                       | 160                                    |
| 1912 | 36,181                                   | 2,985                                 | 12,498                                   | 3,942,010                       | 165                                    |
| 1913 | 36,275                                   | 3,068                                 | 12,845                                   | 4,062,147                       | 170                                    |
| 1914 | 37,241                                   | 2,792                                 | 11,689                                   | 3,795,063                       | 159                                    |
| 1915 | 37,726                                   | 2,734                                 | 11,447                                   | 3,764,734                       | 158                                    |
| 1916 | 37,713                                   | 2,749                                 | 11,509                                   | 3,783,953                       | 158                                    |
| 1917 | 37,463                                   | 2,673                                 | 11,193                                   | 3,655,621                       | 153                                    |
| 1918 | 36,849                                   | 2,904                                 | 12,159                                   | 3,905,883                       | 163                                    |
| 1919 | 36,890                                   | 2,992                                 | 12,527                                   | 4,028,665                       | 169                                    |
| 1920 | 37,122                                   | 2,600                                 | 10,886                                   | 3,522,841                       | 147                                    |
| 1921 | 37,452                                   | 2,830                                 | 11,850                                   | 3,869,147                       | 162                                    |
| 1922 | 37,796                                   | 2,823                                 | 11,821                                   | 3,895,067                       | 163                                    |
| 1923 | 38,063                                   | 2,890                                 | 12,099                                   | 4,014,752                       | 168                                    |
| 1924 | 38,351                                   | 2,866                                 | 11,998                                   | 4,011,265                       | 168                                    |
| 1925 | 38,715                                   | 2,994                                 | 12,535                                   | 4,230,736                       | 177                                    |
| 1926 | 39,044                                   | 3,078                                 | 12,886                                   | 4,385,988                       | 184                                    |
| 1927 | 39,414                                   | 3,021                                 | 12,649                                   | 4,346,379                       | 182                                    |
| 1928 | 39,801                                   | 2,888                                 | 12,090                                   | 4,194,846                       | 176                                    |
| 1929 | 40,113                                   | 2,979                                 | 12,473                                   | 4,361,908                       | 183                                    |
| 1930 | 40,473                                   | 2,918                                 | 12,218                                   | 4,310,961                       | 180                                    |
| 1931 | 40,814                                   | 2,746                                 | 11,497                                   | 4,090,604                       | 171                                    |
| 1932 | 41,152                                   | 2,717                                 | 11,376                                   | 4,081,064                       | 171                                    |
| 1933 | 41,494                                   | 2,806                                 | 11,746                                   | 4,249,069                       | 178                                    |
| 1934 | 41,842                                   | 2,595                                 | 10,865                                   | 3,963,170                       | 166                                    |
| 1935 | 42,194                                   | 2,609                                 | 10,923                                   | 4,017,818                       | 168                                    |
| 1936 | 42,503                                   | 2,626                                 | 10,994                                   | 4,073,615                       | 170                                    |
| 1937 | 42,797                                   | 2,805                                 | 11,746                                   | 4,382,306                       | 183                                    |
| 1938 | 43,154                                   | 2,807                                 | 11,753                                   | 4,421,731                       | 185                                    |
| 1939 | 43,633                                   | 2,731                                 | 11,433                                   | 4,348,836                       | 182                                    |
| 1940 | 44,047                                   | 2,685                                 | 11,240                                   | 4,316,188                       | 181                                    |
| 1941 | 44,357                                   | 2,579                                 | 10,799                                   | 4,175,768                       | 175                                    |
| 1942 | 44,580                                   | 2,428                                 | 10,166                                   | 3,950,769                       | 165                                    |
| 1943 | 44,762                                   | 2,178                                 | 9,119                                    | 3,558,445                       | 149                                    |
| 1944 | 44,890                                   | 1,923                                 | 8,050                                    | 3,150,178                       | 132                                    |
| 1945 | 45,076                                   | 1,797                                 | 7,525                                    | 2,956,918                       | 124                                    |
| 1946 | 45,497                                   | 1,821                                 | 7,625                                    | 3,024,413                       | 127                                    |
| 1947 | 45,830                                   | 2,179                                 | 9,124                                    | 3,645,318                       | 153                                    |
| 1948 | 46,177                                   | 2,440                                 | 10,218                                   | 4,113,355                       | 172                                    |
| 1949 | 46,437                                   | 2,499                                 | 10,462                                   | 4,235,287                       | 177                                    |
| 1950 | 46,768                                   | 2,506                                 | 10,492                                   | 4,277,729                       | 179                                    |
| 1951 | 47,223                                   | 2,309                                 | 9,667                                    | 3,979,553                       | 167                                    |
| 1952 | 47,411                                   | 2,392                                 | 10,014                                   | 4,138,980                       | 173                                    |
| 1953 | 47,655                                   | 2,466                                 | 10,324                                   | 4,289,188                       | 180                                    |
| 1954 | 47,940                                   | 2,475                                 | 10,362                                   | 4,330,492                       | 181                                    |
| 1955 | 48,185                                   | 2,487                                 | 10,413                                   | 4,374,090                       | 183                                    |
| 1956 | 48,732                                   | 2,492                                 | 10,436                                   | 4,433,442                       | 186                                    |
| 1957 | 48,589                                   | 2,532                                 | 10,602                                   | 4,490,936                       | 188                                    |
| 1958 | 48,885                                   | 2,561                                 | 10,724                                   | 4,570,185                       | 191                                    |
| 1959 | 48,604                                   | 2,615                                 | 10,948                                   | 4,638,766                       | 194                                    |
| 1960 | 48,967                                   | 2,707                                 | 11,335                                   | 4,838,576                       | 202                                    |

*(segue)*

*(segue)*

|      | <b>Population</b><br>(present)<br>(x000) | <b>Food</b><br>per c. kcal<br>per day | <b>Food</b><br>Per c. kjoules<br>per day | <b>Total</b><br>Toe<br>per year | <b>Total</b><br>Petajoules<br>Per year |
|------|--|---------------------------------------|--|---------------------------------|--|
| 1961 | 49,156                                   | 2,773                                 | 11,610                                   | 4,975,202                       | 208                                    |
| 1962 | 49,563                                   | 2,837                                 | 11,878                                   | 5,132,447                       | 215                                    |
| 1963 | 49,936                                   | 2,902                                 | 12,150                                   | 5,289,546                       | 221                                    |
| 1964 | 50,439                                   | 2,916                                 | 12,209                                   | 5,368,677                       | 225                                    |
| 1965 | 50,840                                   | 2,935                                 | 12,286                                   | 5,445,549                       | 228                                    |
| 1966 | 51,227                                   | 2,990                                 | 12,519                                   | 5,591,043                       | 234                                    |
| 1967 | 51,664                                   | 3,052                                 | 12,779                                   | 5,755,473                       | 241                                    |
| 1968 | 52,042                                   | 3,127                                 | 13,093                                   | 5,940,100                       | 249                                    |
| 1969 | 52,376                                   | 3,173                                 | 13,283                                   | 6,065,219                       | 254                                    |
| 1970 | 52,771                                   | 3,250                                 | 13,607                                   | 6,259,775                       | 262                                    |
| 1971 | 53,124                                   | 3,300                                 | 13,815                                   | 6,397,962                       | 268                                    |
| 1972 | 53,499                                   | 3,325                                 | 13,919                                   | 6,491,809                       | 272                                    |
| 1973 | 53,882                                   | 3,396                                 | 14,218                                   | 6,678,755                       | 280                                    |
| 1974 | 54,390                                   | 3,396                                 | 14,218                                   | 6,741,722                       | 282                                    |
| 1975 | 54,764                                   | 3,396                                 | 14,218                                   | 6,788,080                       | 284                                    |
| 1976 | 55,070                                   | 3,396                                 | 14,218                                   | 6,826,009                       | 286                                    |
| 1977 | 55,266                                   | 3,396                                 | 14,218                                   | 6,850,304                       | 287                                    |
| 1978 | 55,446                                   | 3,396                                 | 14,218                                   | 6,872,615                       | 288                                    |
| 1979 | 55,602                                   | 3,396                                 | 14,218                                   | 6,891,951                       | 288                                    |
| 1980 | 55,657                                   | 3,396                                 | 14,218                                   | 6,898,769                       | 289                                    |
| 1981 | 55,774                                   | 3,396                                 | 14,218                                   | 6,913,271                       | 289                                    |
| 1982 | 55,995                                   | 3,396                                 | 14,218                                   | 6,940,664                       | 290                                    |
| 1983 | 56,228                                   | 3,396                                 | 14,218                                   | 6,969,545                       | 292                                    |
| 1984 | 56,344                                   | 3,396                                 | 14,218                                   | 6,983,923                       | 292                                    |
| 1985 | 56,498                                   | 3,396                                 | 14,218                                   | 7,003,012                       | 293                                    |
| 1986 | 57,221                                   | 3,396                                 | 14,218                                   | 7,092,629                       | 297                                    |
| 1987 | 57,331                                   | 3,396                                 | 14,218                                   | 7,106,263                       | 297                                    |
| 1988 | 57,441                                   | 3,396                                 | 14,218                                   | 7,119,898                       | 298                                    |
| 1989 | 57,525                                   | 3,396                                 | 14,218                                   | 7,130,310                       | 298                                    |
| 1990 | 57,746                                   | 3,396                                 | 14,218                                   | 7,157,703                       | 300                                    |
| 1991 | 56,757                                   | 3,396                                 | 14,218                                   | 7,035,115                       | 294                                    |
| 1992 | 56,960                                   | 3,396                                 | 14,218                                   | 7,060,277                       | 295                                    |
| 1993 | 57,138                                   | 3,396                                 | 14,218                                   | 7,082,341                       | 296                                    |
| 1994 | 57,269                                   | 3,396                                 | 14,218                                   | 7,098,578                       | 297                                    |
| 1995 | 57,269                                   | 3,396                                 | 14,218                                   | 7,098,578                       | 297                                    |
| 1996 | 57,461                                   | 3,396                                 | 14,218                                   | 7,122,377                       | 298                                    |
| 1997 | 57,563                                   | 3,396                                 | 14,218                                   | 7,135,020                       | 299                                    |
| 1998 | 57,613                                   | 3,396                                 | 14,218                                   | 7,141,218                       | 299                                    |
| 1999 | 57,680                                   | 3,396                                 | 14,218                                   | 7,149,523                       | 299                                    |
| 2000 | 57,844                                   | 3,396                                 | 14,218                                   | 7,169,851                       | 300                                    |

**2. Firewood (Appendix I, 1, col. 2)**

|      | Tons       | Cubic<br>Meters | Toe       | Petajoules |
|------|------------|-----------------|-----------|------------|
| 1861 | 18,982,880 | 30,372,609      | 5,694,864 | 238        |
| 1862 | 19,129,049 | 30,606,478      | 5,738,715 | 240        |
| 1863 | 19,276,342 | 30,842,148      | 5,782,903 | 242        |
| 1864 | 19,424,770 | 31,079,632      | 5,827,431 | 244        |
| 1865 | 19,574,341 | 31,318,945      | 5,872,302 | 246        |
| 1866 | 19,725,063 | 31,560,101      | 5,917,519 | 248        |
| 1867 | 17,776,677 | 28,442,684      | 5,333,003 | 223        |
| 1868 | 17,913,558 | 28,661,692      | 5,374,067 | 225        |
| 1869 | 18,051,492 | 28,882,387      | 5,415,448 | 227        |
| 1870 | 18,190,489 | 29,104,782      | 5,457,147 | 228        |
| 1871 | 18,330,555 | 29,328,889      | 5,499,167 | 230        |
| 1872 | 17,690,568 | 28,304,909      | 5,307,170 | 222        |
| 1873 | 17,874,759 | 28,599,614      | 5,362,428 | 224        |
| 1874 | 18,295,620 | 29,272,992      | 5,488,686 | 230        |
| 1875 | 19,050,220 | 30,480,352      | 5,715,066 | 239        |
| 1876 | 19,327,021 | 30,923,234      | 5,798,106 | 243        |
| 1877 | 18,615,296 | 29,784,474      | 5,584,589 | 234        |
| 1878 | 18,327,862 | 29,324,579      | 5,498,359 | 230        |
| 1879 | 19,025,524 | 30,440,838      | 5,707,657 | 239        |
| 1880 | 19,258,764 | 30,814,022      | 5,777,629 | 242        |
| 1881 | 18,942,175 | 30,307,480      | 5,682,653 | 238        |
| 1882 | 18,732,602 | 29,972,163      | 5,619,781 | 235        |
| 1883 | 18,967,557 | 30,348,091      | 5,690,267 | 238        |
| 1884 | 18,917,479 | 30,267,966      | 5,675,244 | 237        |
| 1885 | 18,714,080 | 29,942,528      | 5,614,224 | 235        |
| 1886 | 18,465,062 | 29,544,099      | 5,539,519 | 232        |
| 1887 | 18,413,612 | 29,461,779      | 5,524,084 | 231        |
| 1888 | 18,434,192 | 29,494,707      | 5,530,258 | 231        |
| 1889 | 18,127,893 | 29,004,629      | 5,438,368 | 228        |
| 1890 | 17,940,615 | 28,704,984      | 5,382,185 | 225        |
| 1891 | 17,698,114 | 28,316,982      | 5,309,434 | 222        |
| 1892 | 17,816,106 | 28,505,770      | 5,344,832 | 224        |
| 1893 | 17,261,818 | 27,618,909      | 5,178,545 | 217        |
| 1894 | 17,435,376 | 27,896,602      | 5,230,613 | 219        |
| 1895 | 17,274,509 | 27,639,214      | 5,182,353 | 217        |
| 1896 | 17,069,052 | 27,310,483      | 5,120,716 | 214        |
| 1897 | 16,993,592 | 27,189,747      | 5,098,078 | 213        |
| 1898 | 16,745,946 | 26,793,514      | 5,023,784 | 210        |
| 1899 | 16,585,765 | 26,537,224      | 4,975,730 | 208        |
| 1900 | 16,526,426 | 26,442,282      | 4,957,928 | 207        |
| 1901 | 16,735,656 | 26,777,050      | 5,020,697 | 210        |
| 1902 | 16,002,665 | 25,604,264      | 4,800,800 | 201        |
| 1903 | 15,366,400 | 24,586,240      | 4,609,920 | 193        |
| 1904 | 14,982,926 | 23,972,682      | 4,494,878 | 188        |
| 1905 | 14,496,209 | 23,193,934      | 4,348,863 | 182        |
| 1906 | 14,235,872 | 22,777,395      | 4,270,762 | 179        |
| 1907 | 14,211,176 | 22,737,882      | 4,263,353 | 178        |
| 1908 | 14,462,938 | 23,140,701      | 4,338,881 | 182        |
| 1909 | 14,820,344 | 23,712,550      | 4,446,103 | 186        |
| 1910 | 14,724,990 | 23,559,984      | 4,417,497 | 185        |

*(segue)*

(*segue*)

|      | Tons       | Cubic<br>meters | Toe       | Petajoules |
|------|------------|-----------------|-----------|------------|
| 1911 | 14,455,735 | 23,129,176      | 4,336,721 | 181        |
| 1912 | 14,372,729 | 22,996,366      | 4,311,819 | 180        |
| 1913 | 14,493,808 | 23,190,093      | 4,348,142 | 182        |
| 1914 | 15,622,587 | 24,996,139      | 4,686,776 | 196        |
| 1915 | 19,169,087 | 30,670,539      | 5,750,726 | 241        |
| 1916 | 19,107,552 | 30,572,084      | 5,732,266 | 240        |
| 1917 | 19,047,202 | 30,475,523      | 5,714,160 | 239        |
| 1918 | 18,977,384 | 30,363,814      | 5,693,215 | 238        |
| 1919 | 18,455,896 | 29,529,433      | 5,536,769 | 232        |
| 1920 | 17,457,943 | 27,932,709      | 5,237,383 | 219        |
| 1921 | 17,769,449 | 28,431,119      | 5,330,835 | 223        |
| 1922 | 17,780,777 | 28,449,243      | 5,334,233 | 223        |
| 1923 | 18,238,408 | 29,181,452      | 5,471,522 | 229        |
| 1924 | 17,911,043 | 28,657,669      | 5,373,313 | 225        |
| 1925 | 18,239,541 | 29,183,265      | 5,471,862 | 229        |
| 1926 | 18,335,824 | 29,337,319      | 5,500,747 | 230        |
| 1927 | 18,054,902 | 28,887,844      | 5,416,471 | 227        |
| 1928 | 17,327,677 | 27,724,283      | 5,198,303 | 217        |
| 1929 | 17,226,862 | 27,562,979      | 5,168,059 | 216        |
| 1930 | 15,988,766 | 25,582,026      | 4,796,630 | 201        |
| 1931 | 15,105,221 | 24,168,354      | 4,531,566 | 190        |
| 1932 | 14,655,520 | 23,448,831      | 4,396,656 | 184        |
| 1933 | 14,171,835 | 22,674,936      | 4,251,551 | 178        |
| 1934 | 14,051,764 | 22,482,822      | 4,215,529 | 176        |
| 1935 | 13,879,586 | 22,207,337      | 4,163,876 | 174        |
| 1936 | 12,938,271 | 20,701,233      | 3,881,481 | 162        |
| 1937 | 13,863,727 | 22,181,964      | 4,159,118 | 174        |
| 1938 | 14,542,245 | 23,267,591      | 4,362,673 | 183        |
| 1939 | 14,761,998 | 23,619,197      | 4,428,599 | 185        |
| 1940 | 15,737,296 | 25,179,673      | 4,721,189 | 198        |
| 1941 | 21,372,727 | 34,196,363      | 6,411,818 | 268        |
| 1942 | 25,491,406 | 40,786,250      | 7,647,422 | 320        |
| 1943 | 22,875,886 | 36,601,418      | 6,862,766 | 287        |
| 1944 | 15,557,189 | 24,891,502      | 4,667,157 | 195        |
| 1945 | 14,926,247 | 23,881,995      | 4,477,874 | 187        |
| 1946 | 17,223,464 | 27,557,542      | 5,167,039 | 216        |
| 1947 | 17,197,100 | 27,515,360      | 5,159,130 | 216        |
| 1948 | 16,442,700 | 26,308,320      | 4,932,810 | 206        |
| 1949 | 15,441,050 | 24,705,680      | 4,632,315 | 194        |
| 1950 | 15,306,500 | 24,490,400      | 4,591,950 | 192        |
| 1951 | 15,293,610 | 24,469,776      | 4,588,083 | 192        |
| 1952 | 15,280,731 | 24,449,170      | 4,584,220 | 192        |
| 1953 | 15,267,863 | 24,428,581      | 4,580,359 | 192        |
| 1954 | 15,255,006 | 24,408,010      | 4,576,502 | 191        |
| 1955 | 15,242,160 | 24,387,455      | 4,572,648 | 191        |
| 1956 | 15,229,324 | 24,366,919      | 4,568,798 | 191        |
| 1957 | 15,216,499 | 24,346,399      | 4,564,950 | 191        |
| 1958 | 15,203,685 | 24,325,897      | 4,561,106 | 191        |
| 1959 | 15,190,882 | 24,305,412      | 4,557,265 | 191        |
| 1960 | 15,178,090 | 24,284,944      | 4,553,427 | 191        |

(*segue*)

110 *Appendix II*  
(*segue*)

|      | Tons       | Cubic<br>meters | Toe       | Petajoules |
|------|------------|-----------------|-----------|------------|
| 1961 | 15,165,308 | 24,264,493      | 4,549,593 | 190        |
| 1962 | 15,152,537 | 24,244,060      | 4,545,761 | 190        |
| 1963 | 15,139,777 | 24,223,644      | 4,541,933 | 190        |
| 1964 | 15,127,028 | 24,203,245      | 4,538,109 | 190        |
| 1965 | 15,114,289 | 24,182,863      | 4,534,287 | 190        |
| 1966 | 15,101,561 | 24,162,498      | 4,530,469 | 190        |
| 1967 | 15,088,844 | 24,142,151      | 4,526,654 | 189        |
| 1968 | 15,076,138 | 24,121,820      | 4,522,842 | 189        |
| 1969 | 15,063,442 | 24,101,507      | 4,519,033 | 189        |
| 1970 | 15,050,757 | 24,081,211      | 4,515,227 | 189        |
| 1971 | 15,038,082 | 24,060,932      | 4,511,425 | 189        |
| 1972 | 15,025,419 | 24,040,670      | 4,507,626 | 189        |
| 1973 | 15,012,766 | 24,020,425      | 4,503,830 | 188        |
| 1974 | 15,000,123 | 24,000,197      | 4,500,037 | 188        |
| 1975 | 14,987,492 | 23,979,986      | 4,496,248 | 188        |
| 1976 | 14,974,870 | 23,959,793      | 4,492,461 | 188        |
| 1977 | 14,962,260 | 23,939,616      | 4,488,678 | 188        |
| 1978 | 14,949,660 | 23,919,456      | 4,484,898 | 188        |
| 1979 | 14,937,071 | 23,899,313      | 4,481,122 | 187        |
| 1980 | 14,924,492 | 23,879,187      | 4,477,348 | 187        |
| 1981 | 14,911,924 | 23,859,079      | 4,473,578 | 187        |
| 1982 | 14,899,367 | 23,838,987      | 4,469,810 | 187        |
| 1983 | 14,886,820 | 23,818,912      | 4,466,046 | 187        |
| 1984 | 14,874,283 | 23,798,853      | 4,462,285 | 187        |
| 1985 | 14,861,758 | 23,778,812      | 4,458,528 | 187        |
| 1986 | 14,849,242 | 23,758,788      | 4,454,773 | 186        |
| 1987 | 14,836,738 | 23,738,780      | 4,451,022 | 186        |
| 1988 | 14,824,243 | 23,718,790      | 4,447,273 | 186        |
| 1989 | 14,811,760 | 23,698,816      | 4,443,528 | 186        |
| 1990 | 14,799,287 | 23,678,859      | 4,439,786 | 186        |
| 1991 | 14,786,824 | 23,658,919      | 4,436,047 | 186        |
| 1992 | 14,774,372 | 23,638,995      | 4,432,312 | 185        |
| 1993 | 14,761,930 | 23,619,088      | 4,428,579 | 185        |
| 1994 | 14,749,499 | 23,599,199      | 4,424,850 | 185        |
| 1995 | 14,737,078 | 23,579,325      | 4,421,124 | 185        |
| 1996 | 14,724,668 | 23,559,469      | 4,417,401 | 185        |
| 1997 | 14,712,268 | 23,539,629      | 4,413,681 | 185        |
| 1998 | 14,699,879 | 23,519,806      | 4,409,964 | 185        |
| 1999 | 14,687,500 | 23,500,000      | 4,406,250 | 184        |
| 2000 | 14,687,500 | 23,500,000      | 4,406,250 | 184        |

## 3. Animals (Appendix I, 1, col. 3)

|      | Number<br>Bovine<br>an.<br>(000) | Number<br>Bovine<br>an.<br>Working | Number<br>Horses<br>(000) | Number<br>Horses<br>Working | Consumption<br>Work. Bov.<br>Toe per year | Consumption<br>Work.Horses<br>Toe per year | Total<br>Toe | Total<br>Petajoules |
|------|----------------------------------|------------------------------------|---------------------------|-----------------------------|---|--|--------------|---------------------|
| 1861 | 4,657                            | 1,351                              | 1,476                     | 1,181                       | 1,035,237                                 | 1,034,122                                  | 2,069,359    | 87                  |
| 1862 | 4,717                            | 1,368                              | 1,342                     | 1,074                       | 1,048,617                                 | 940,555                                    | 1,989,171    | 83                  |
| 1863 | 4,775                            | 1,385                              | 1,239                     | 991                         | 1,061,433                                 | 868,142                                    | 1,929,575    | 81                  |
| 1864 | 4,793                            | 1,390                              | 1,167                     | 933                         | 1,065,476                                 | 817,697                                    | 1,883,172    | 79                  |
| 1865 | 4,846                            | 1,405                              | 1,126                     | 901                         | 1,077,266                                 | 789,220                                    | 1,866,486    | 78                  |
| 1866 | 4,896                            | 1,420                              | 1,116                     | 893                         | 1,088,304                                 | 781,897                                    | 1,870,202    | 78                  |
| 1867 | 4,673                            | 1,355                              | 1,162                     | 929                         | 1,038,674                                 | 814,135                                    | 1,852,809    | 78                  |
| 1868 | 4,700                            | 1,363                              | 1,213                     | 971                         | 1,044,831                                 | 850,268                                    | 1,895,099    | 79                  |
| 1869 | 4,710                            | 1,366                              | 1,297                     | 1,037                       | 1,046,862                                 | 908,695                                    | 1,955,557    | 82                  |
| 1870 | 4,745                            | 1,376                              | 1,412                     | 1,129                       | 1,054,680                                 | 989,417                                    | 2,044,097    | 86                  |
| 1871 | 4,576                            | 1,327                              | 1,462                     | 1,170                       | 1,017,205                                 | 1,024,528                                  | 2,041,734    | 85                  |
| 1872 | 4,616                            | 1,339                              | 1,538                     | 1,230                       | 1,026,007                                 | 1,077,559                                  | 2,103,566    | 88                  |
| 1873 | 4,668                            | 1,354                              | 1,595                     | 1,276                       | 1,037,709                                 | 1,118,069                                  | 2,155,778    | 90                  |
| 1874 | 4,722                            | 1,369                              | 1,634                     | 1,307                       | 1,049,530                                 | 1,145,321                                  | 2,194,851    | 92                  |
| 1875 | 4,712                            | 1,367                              | 1,656                     | 1,325                       | 1,047,465                                 | 1,160,788                                  | 2,208,254    | 92                  |
| 1876 | 4,766                            | 1,382                              | 1,660                     | 1,328                       | 1,059,396                                 | 1,162,998                                  | 2,222,394    | 93                  |
| 1877 | 4,838                            | 1,403                              | 1,645                     | 1,316                       | 1,075,308                                 | 1,152,686                                  | 2,227,995    | 93                  |
| 1878 | 4,876                            | 1,414                              | 1,642                     | 1,313                       | 1,083,922                                 | 1,150,477                                  | 2,234,398    | 94                  |
| 1879 | 4,927                            | 1,429                              | 1,648                     | 1,318                       | 1,095,215                                 | 1,154,896                                  | 2,250,111    | 94                  |
| 1880 | 5,007                            | 1,452                              | 1,666                     | 1,333                       | 1,112,981                                 | 1,167,417                                  | 2,280,398    | 95                  |
| 1881 | 5,027                            | 1,458                              | 1,695                     | 1,356                       | 1,117,412                                 | 1,188,040                                  | 2,305,452    | 96                  |
| 1882 | 5,078                            | 1,472                              | 1,759                     | 1,407                       | 1,128,659                                 | 1,232,969                                  | 2,361,628    | 99                  |
| 1883 | 5,168                            | 1,499                              | 1,810                     | 1,448                       | 1,148,724                                 | 1,268,323                                  | 2,417,047    | 101                 |
| 1884 | 5,281                            | 1,531                              | 1,847                     | 1,477                       | 1,173,802                                 | 1,294,102                                  | 2,467,904    | 103                 |
| 1885 | 5,418                            | 1,571                              | 1,869                     | 1,495                       | 1,204,286                                 | 1,309,570                                  | 2,513,855    | 105                 |
| 1886 | 5,557                            | 1,612                              | 1,876                     | 1,501                       | 1,235,291                                 | 1,314,725                                  | 2,550,016    | 107                 |
| 1887 | 5,646                            | 1,637                              | 1,870                     | 1,496                       | 1,254,978                                 | 1,310,306                                  | 2,565,284    | 107                 |
| 1888 | 5,703                            | 1,654                              | 1,849                     | 1,479                       | 1,267,724                                 | 1,295,575                                  | 2,563,299    | 107                 |
| 1889 | 5,731                            | 1,662                              | 1,814                     | 1,451                       | 1,273,946                                 | 1,271,269                                  | 2,545,215    | 107                 |
| 1890 | 5,724                            | 1,660                              | 1,765                     | 1,412                       | 1,272,460                                 | 1,236,652                                  | 2,509,112    | 105                 |
| 1891 | 5,750                            | 1,668                              | 1,781                     | 1,425                       | 1,278,223                                 | 1,248,437                                  | 2,526,660    | 106                 |
| 1892 | 5,764                            | 1,671                              | 1,798                     | 1,439                       | 1,281,200                                 | 1,260,221                                  | 2,541,421    | 106                 |
| 1893 | 5,807                            | 1,684                              | 1,813                     | 1,450                       | 1,290,725                                 | 1,270,533                                  | 2,561,258    | 107                 |
| 1894 | 5,867                            | 1,701                              | 1,828                     | 1,462                       | 1,304,128                                 | 1,280,844                                  | 2,584,973    | 108                 |
| 1895 | 5,985                            | 1,736                              | 1,841                     | 1,473                       | 1,330,363                                 | 1,290,419                                  | 2,620,782    | 110                 |
| 1896 | 6,029                            | 1,748                              | 1,854                     | 1,483                       | 1,340,150                                 | 1,299,258                                  | 2,639,408    | 110                 |
| 1897 | 6,108                            | 1,771                              | 1,866                     | 1,492                       | 1,357,734                                 | 1,307,360                                  | 2,665,094    | 112                 |
| 1898 | 6,148                            | 1,783                              | 1,877                     | 1,502                       | 1,366,513                                 | 1,315,462                                  | 2,681,975    | 112                 |
| 1899 | 6,127                            | 1,777                              | 1,887                     | 1,509                       | 1,361,961                                 | 1,322,091                                  | 2,684,052    | 112                 |
| 1900 | 6,075                            | 1,762                              | 1,896                     | 1,517                       | 1,350,419                                 | 1,328,720                                  | 2,679,139    | 112                 |
| 1901 | 6,067                            | 1,759                              | 1,921                     | 1,537                       | 1,348,506                                 | 1,346,397                                  | 2,694,903    | 113                 |
| 1902 | 6,057                            | 1,757                              | 1,944                     | 1,555                       | 1,346,394                                 | 1,362,600                                  | 2,708,995    | 113                 |
| 1903 | 6,106                            | 1,771                              | 1,965                     | 1,572                       | 1,357,227                                 | 1,377,331                                  | 2,734,559    | 114                 |
| 1904 | 6,204                            | 1,799                              | 1,984                     | 1,587                       | 1,379,032                                 | 1,390,589                                  | 2,769,621    | 116                 |
| 1905 | 6,296                            | 1,826                              | 2,001                     | 1,601                       | 1,399,508                                 | 1,402,374                                  | 2,801,882    | 117                 |

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|      | Number<br>Bovine<br>an.<br>(000) | Number<br>Bovine<br>an.<br>Working | Number<br>Horses<br>(000) | Number<br>Horses<br>Working | Consumption<br>Work. Bov.<br>Toe per year | Consumption<br>Work.Horses<br>Toe per year | Total<br>Toe | Total<br>Petajoules |
|------|----------------------------------|------------------------------------|---------------------------|-----------------------------|---|--|--------------|---------------------|
| 1906 | 6,360                            | 1,844                              | 2,095                     | 1,676                       | 1,413,723                                 | 1,467,926                                  | 2,881,649    | 121                 |
| 1907 | 6,447                            | 1,870                              | 2,179                     | 1,743                       | 1,433,081                                 | 1,526,849                                  | 2,959,930    | 124                 |
| 1908 | 6,530                            | 1,894                              | 2,251                     | 1,801                       | 1,451,540                                 | 1,577,670                                  | 3,029,210    | 127                 |
| 1909 | 6,944                            | 2,014                              | 2,314                     | 1,851                       | 1,543,619                                 | 1,621,863                                  | 3,165,482    | 132                 |
| 1910 | 6,926                            | 2,009                              | 2,366                     | 1,893                       | 1,539,591                                 | 1,657,953                                  | 3,197,544    | 134                 |
| 1911 | 6,966                            | 2,020                              | 2,408                     | 1,926                       | 1,548,490                                 | 1,687,415                                  | 3,235,905    | 135                 |
| 1912 | 7,037                            | 2,041                              | 2,439                     | 1,951                       | 1,564,194                                 | 1,709,511                                  | 3,273,705    | 137                 |
| 1913 | 7,028                            | 2,038                              | 2,459                     | 1,967                       | 1,562,256                                 | 1,723,505                                  | 3,285,761    | 138                 |
| 1914 | 7,031                            | 2,039                              | 2,470                     | 1,976                       | 1,562,806                                 | 1,730,871                                  | 3,293,676    | 138                 |
| 1915 | 7,064                            | 2,049                              | 2,303                     | 1,842                       | 1,570,197                                 | 1,613,761                                  | 3,183,958    | 133                 |
| 1916 | 7,024                            | 2,037                              | 2,196                     | 1,756                       | 1,561,288                                 | 1,538,634                                  | 3,099,922    | 130                 |
| 1917 | 7,033                            | 2,040                              | 2,148                     | 1,719                       | 1,563,322                                 | 1,505,489                                  | 3,068,812    | 128                 |
| 1918 | 7,179                            | 2,082                              | 2,161                     | 1,729                       | 1,595,888                                 | 1,514,328                                  | 3,110,216    | 130                 |
| 1919 | 7,299                            | 2,117                              | 2,063                     | 1,651                       | 1,622,429                                 | 1,446,013                                  | 3,068,442    | 128                 |
| 1920 | 7,516                            | 2,180                              | 2,187                     | 1,749                       | 1,670,776                                 | 1,532,434                                  | 3,203,210    | 134                 |
| 1921 | 7,876                            | 2,284                              | 2,365                     | 1,892                       | 1,750,682                                 | 1,657,641                                  | 3,408,324    | 143                 |
| 1922 | 8,062                            | 2,338                              | 2,373                     | 1,898                       | 1,792,045                                 | 1,663,085                                  | 3,455,130    | 145                 |
| 1923 | 8,062                            | 2,338                              | 2,389                     | 1,911                       | 1,792,164                                 | 1,673,973                                  | 3,466,137    | 145                 |
| 1924 | 7,937                            | 2,302                              | 2,411                     | 1,929                       | 1,764,227                                 | 1,689,624                                  | 3,453,850    | 145                 |
| 1925 | 7,812                            | 2,265                              | 2,440                     | 1,952                       | 1,736,395                                 | 1,710,038                                  | 3,446,433    | 144                 |
| 1926 | 7,496                            | 2,174                              | 2,476                     | 1,981                       | 1,666,288                                 | 1,735,216                                  | 3,401,504    | 142                 |
| 1927 | 7,238                            | 2,099                              | 2,456                     | 1,965                       | 1,608,898                                 | 1,720,926                                  | 3,329,824    | 139                 |
| 1928 | 7,141                            | 2,071                              | 2,411                     | 1,929                       | 1,587,315                                 | 1,689,624                                  | 3,276,939    | 137                 |
| 1929 | 6,930                            | 2,010                              | 2,341                     | 1,873                       | 1,540,404                                 | 1,640,630                                  | 3,181,034    | 133                 |
| 1930 | 6,893                            | 1,999                              | 2,246                     | 1,797                       | 1,532,114                                 | 1,573,943                                  | 3,106,057    | 130                 |
| 1931 | 6,937                            | 2,012                              | 2,195                     | 1,756                       | 1,541,898                                 | 1,538,558                                  | 3,080,456    | 129                 |
| 1932 | 6,954                            | 2,017                              | 2,148                     | 1,718                       | 1,545,659                                 | 1,505,215                                  | 3,050,874    | 128                 |
| 1933 | 6,865                            | 1,991                              | 2,102                     | 1,682                       | 1,525,934                                 | 1,473,232                                  | 2,999,166    | 126                 |
| 1934 | 6,848                            | 1,986                              | 2,060                     | 1,648                       | 1,522,131                                 | 1,443,972                                  | 2,966,103    | 124                 |
| 1935 | 6,754                            | 1,959                              | 2,021                     | 1,617                       | 1,501,321                                 | 1,416,072                                  | 2,917,393    | 122                 |
| 1936 | 6,639                            | 1,925                              | 1,984                     | 1,587                       | 1,475,798                                 | 1,390,214                                  | 2,866,012    | 120                 |
| 1937 | 6,610                            | 1,917                              | 1,961                     | 1,569                       | 1,469,211                                 | 1,374,563                                  | 2,843,774    | 119                 |
| 1938 | 6,706                            | 1,945                              | 1,960                     | 1,568                       | 1,490,654                                 | 1,373,883                                  | 2,864,536    | 120                 |
| 1939 | 6,730                            | 1,952                              | 1,944                     | 1,555                       | 1,495,941                                 | 1,362,315                                  | 2,858,256    | 120                 |
| 1940 | 8,003                            | 2,321                              | 1,817                     | 1,453                       | 1,778,943                                 | 1,273,172                                  | 3,052,115    | 128                 |
| 1941 | 8,254                            | 2,394                              | 1,691                     | 1,352                       | 1,834,845                                 | 1,184,710                                  | 3,019,555    | 126                 |
| 1942 | 8,142                            | 2,361                              | 1,713                     | 1,370                       | 1,809,808                                 | 1,200,361                                  | 3,010,169    | 126                 |
| 1943 | 7,114                            | 2,063                              | 1,582                     | 1,265                       | 1,581,235                                 | 1,108,497                                  | 2,689,731    | 113                 |
| 1944 | 6,067                            | 1,759                              | 1,453                     | 1,162                       | 1,348,560                                 | 1,017,993                                  | 2,366,554    | 99                  |
| 1945 | 5,885                            | 1,707                              | 1,434                     | 1,147                       | 1,308,147                                 | 1,004,947                                  | 2,313,094    | 97                  |
| 1946 | 6,229                            | 1,806                              | 1,444                     | 1,155                       | 1,384,613                                 | 1,011,955                                  | 2,396,568    | 100                 |
| 1947 | 7,277                            | 2,110                              | 1,531                     | 1,225                       | 1,617,568                                 | 1,072,925                                  | 2,690,493    | 113                 |
| 1948 | 7,848                            | 2,276                              | 1,915                     | 1,532                       | 1,744,493                                 | 1,342,032                                  | 3,086,525    | 129                 |
| 1949 | 8,180                            | 2,372                              | 1,956                     | 1,565                       | 1,818,291                                 | 1,370,765                                  | 3,189,056    | 133                 |
| 1950 | 8,350                            | 2,422                              | 1,967                     | 1,574                       | 1,856,080                                 | 1,378,474                                  | 3,234,553    | 135                 |
| 1951 | 8,395                            | 1,259                              | 1,935                     | 1,548                       | 1,723,092                                 | 1,356,048                                  | 3,079,140    | 129                 |
| 1952 | 8,708                            | 1,306                              | 1,892                     | 1,514                       | 1,660,239                                 | 1,325,914                                  | 2,986,153    | 125                 |
| 1953 | 9,008                            | 1,351                              | 1,842                     | 1,474                       | 1,598,919                                 | 1,290,874                                  | 2,889,793    | 121                 |
| 1954 | 8,831                            | 1,325                              | 1,795                     | 1,436                       | 1,540,665                                 | 1,257,936                                  | 2,798,601    | 117                 |

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|      | Number                 | Number                   | Number          | Number            | Consumption                | Consumption                 | Total     | Total |
|------|------------------------|--------------------------|-----------------|-------------------|----------------------------|-----------------------------|-----------|-------|
|      | Bovine<br>an.<br>(000) | Bovine<br>an.<br>Working | Horses<br>(000) | Horses<br>Working | Work. Bov.<br>Toe per year | Work.Horses<br>Toe per year |           |       |
| 1955 | 8,686                  | 1,303                    | 1,652           | 1,322             | 1,483,944                  | 1,157,722                   | 2,641,666 | 111   |
| 1956 | 8,495                  | 1,274                    | 1,427           | 1,142             | 1,429,523                  | 1,000,042                   | 2,429,564 | 102   |
| 1957 | 8,665                  | 1,300                    | 1,393           | 1,114             | 1,377,401                  | 976,214                     | 2,353,615 | 98    |
| 1958 | 9,078                  | 1,362                    | 1,338           | 1,070             | 1,326,812                  | 937,670                     | 2,264,482 | 95    |
| 1959 | 9,417                  | 1,413                    | 1,290           | 1,032             | 1,278,522                  | 904,032                     | 2,182,554 | 91    |
| 1960 | 9,845                  | 1,477                    | 1,241           | 993               | 1,230,999                  | 869,693                     | 2,100,692 | 88    |
| 1961 | 9,551                  | 1,433                    | 1,170           | 936               | 1,186,542                  | 819,936                     | 2,006,478 | 84    |
| 1962 | 9,189                  | 1,378                    | 1,103           | 882               | 1,142,852                  | 772,982                     | 1,915,834 | 80    |
| 1963 | 8,649                  | 1,297                    | 1,049           | 839               | 1,101,461                  | 735,139                     | 1,836,600 | 77    |
| 1964 | 9,226                  | 1,384                    | 1,029           | 823               | 1,060,759                  | 721,123                     | 1,781,883 | 75    |
| 1965 | 9,429                  | 471                      | 958             | 766               | 925,932                    | 671,366                     | 1,597,298 | 67    |
| 1966 | 9,546                  | 477                      | 921             | 737               | 807,891                    | 645,437                     | 1,453,328 | 61    |
| 1967 | 9,583                  | 479                      | 867             | 694               | 705,947                    | 607,594                     | 1,313,540 | 55    |
| 1968 | 10,070                 | 504                      | 820             | 656               | 616,266                    | 574,656                     | 1,190,922 | 50    |
| 1969 | 9,612                  | 481                      | 777             | 622               | 538,083                    | 544,522                     | 1,082,605 | 45    |
| 1970 | 8,776                  | 439                      | 708             | 566               | 469,865                    | 496,166                     | 966,031   | 40    |
| 1971 | 8,669                  | 433                      | 655             | 524               | 410,078                    | 459,024                     | 869,102   | 36    |
| 1972 | 8,805                  | 440                      | 620             | 496               | 357,956                    | 434,496                     | 792,452   | 33    |
| 1973 | 8,487                  | 424                      | 592             | 474               | 312,732                    | 414,874                     | 727,606   | 30    |
| 1974 | 8,243                  | 561                      | 412             | 449               | 272,874                    | 393,149                     | 666,023   | 28    |
| 1975 | 8,529                  | 540                      | 426             | 432               | 238,382                    | 378,432                     | 616,814   | 26    |
| 1976 | 8,813                  | 475                      | 354             | 380               | 207,722                    | 333,020                     | 540,742   | 23    |
| 1977 | 8,568                  | 418                      | 294             | 335               | 181,661                    | 293,058                     | 474,718   | 20    |
| 1978 | 8,724                  | 368                      | 244             | 294               | 158,666                    | 257,891                     | 416,556   | 17    |
| 1979 | 8,008                  | 324                      | 202             | 259               | 138,737                    | 226,944                     | 365,680   | 15    |
| 1980 | 8,836                  | 285                      | 168             | 228               | 121,107                    | 199,711                     | 320,818   | 13    |
| 1981 | 8,904                  | 251                      | 139             | 201               | 105,777                    | 175,745                     | 281,522   | 12    |
| 1982 | 9,127                  | 221                      | 116             | 177               | 91,980                     | 154,656                     | 246,636   | 10    |
| 1983 | 9,221                  | 194                      | 96              | 155               | 80,483                     | 136,097                     | 216,580   | 9     |
| 1984 | 9,206                  | 171                      | 80              | 137               | 61,106                     | 119,766                     | 180,871   | 8     |

**4. Wind (Appendix I, 1, col. 4)**

|      | Tonnage<br>Sailships | Tonnage<br>Sailboats | Tonnage<br>Total | Power<br>(CV) | Toe    | Petajoules |
|------|----------------------|----------------------|------------------|---------------|--------|------------|
| 1861 | 946,601              | 54,677               | 1,001,277        | 119,200       | 27,584 | 1,15       |
| 1862 | 946,601              | 55,509               | 1,002,109        | 119,299       | 27,607 | 1,16       |
| 1863 | 971,114              | 56,354               | 1,027,468        | 122,318       | 28,306 | 1,18       |
| 1864 | 842,666              | 57,212               | 899,878          | 107,128       | 24,791 | 1,04       |
| 1865 | 964,974              | 58,084               | 1,023,058        | 121,793       | 28,184 | 1,18       |
| 1866 | 1,021,531            | 58,969               | 1,080,500        | 128,631       | 29,766 | 1,25       |
| 1867 | 1,164,872            | 59,867               | 1,224,739        | 145,802       | 33,740 | 1,41       |
| 1868 | 1,057,470            | 50,856               | 1,108,326        | 131,944       | 30,533 | 1,28       |
| 1869 | 1,138,165            | 51,630               | 1,189,795        | 141,642       | 32,777 | 1,37       |
| 1870 | 1,205,479            | 52,954               | 1,258,433        | 149,813       | 34,668 | 1,45       |
| 1871 | 1,222,512            | 53,489               | 1,276,001        | 151,905       | 35,152 | 1,47       |
| 1872 | 1,221,283            | 56,616               | 1,277,899        | 152,131       | 35,205 | 1,47       |
| 1873 | 1,227,375            | 58,613               | 1,285,988        | 153,094       | 35,427 | 1,48       |
| 1874 | 1,204,808            | 55,248               | 1,260,056        | 150,007       | 34,713 | 1,45       |
| 1875 | 1,214,244            | 58,052               | 1,272,296        | 151,464       | 35,050 | 1,47       |
| 1876 | 1,255,200            | 60,006               | 1,315,206        | 156,572       | 36,232 | 1,52       |
| 1877 | 1,242,460            | 61,871               | 1,304,331        | 155,278       | 35,933 | 1,50       |
| 1878 | 1,188,582            | 64,377               | 1,252,959        | 149,162       | 34,518 | 1,44       |
| 1879 | 1,147,966            | 62,407               | 1,210,373        | 144,092       | 33,344 | 1,40       |
| 1880 | 1,134,240            | 60,436               | 1,194,676        | 142,223       | 32,912 | 1,38       |
| 1881 | 1,101,292            | 49,327               | 1,150,618        | 136,978       | 31,698 | 1,33       |
| 1882 | 1,088,901            | 66,853               | 1,155,754        | 137,590       | 31,840 | 1,33       |
| 1883 | 1,065,034            | 61,073               | 1,126,107        | 134,060       | 31,023 | 1,30       |
| 1884 | 1,043,906            | 61,469               | 1,105,375        | 131,592       | 30,452 | 1,27       |
| 1885 | 1,019,447            | 60,494               | 1,079,941        | 128,564       | 29,751 | 1,25       |
| 1886 | 985,659              | 62,127               | 1,047,787        | 124,736       | 28,865 | 1,21       |
| 1887 | 900,968              | 63,206               | 964,174          | 114,783       | 26,562 | 1,11       |
| 1888 | 858,458              | 65,704               | 924,162          | 110,019       | 25,460 | 1,07       |
| 1889 | 789,937              | 64,940               | 854,877          | 101,771       | 23,551 | 0,99       |
| 1890 | 780,003              | 63,885               | 843,888          | 100,463       | 23,248 | 0,97       |
| 1891 | 769,749              | 66,443               | 836,192          | 99,547        | 23,036 | 0,96       |
| 1892 | 750,080              | 68,711               | 818,791          | 97,475        | 22,557 | 0,94       |
| 1893 | 723,570              | 73,229               | 796,799          | 94,857        | 21,951 | 0,92       |
| 1894 | 703,074              | 74,631               | 777,706          | 92,584        | 21,425 | 0,90       |
| 1895 | 683,350              | 76,896               | 760,246          | 90,505        | 20,944 | 0,88       |
| 1896 | 648,891              | 79,553               | 728,444          | 86,720        | 20,068 | 0,84       |
| 1897 | 647,997              | 78,607               | 726,604          | 86,500        | 20,017 | 0,84       |
| 1898 | 661,300              | 84,444               | 745,744          | 88,779        | 20,544 | 0,86       |
| 1899 | 686,616              | 85,189               | 771,804          | 91,881        | 21,262 | 0,89       |
| 1900 | 698,842              | 85,663               | 784,505          | 93,393        | 21,612 | 0,90       |
| 1901 | 707,505              | 84,062               | 791,567          | 94,234        | 21,807 | 0,91       |
| 1902 | 701,596              | 85,030               | 786,626          | 93,646        | 21,671 | 0,91       |
| 1903 | 718,594              | 84,152               | 802,746          | 95,565        | 22,115 | 0,93       |
| 1904 | 701,537              | 86,430               | 787,966          | 93,806        | 21,708 | 0,91       |
| 1905 | 665,640              | 88,678               | 754,318          | 89,800        | 20,781 | 0,87       |
| 1906 | 619,010              | 90,901               | 709,910          | 84,513        | 19,557 | 0,82       |
| 1907 | 576,469              | 93,482               | 669,951          | 79,756        | 18,456 | 0,77       |
| 1908 | 557,589              | 95,387               | 652,975          | 77,735        | 17,989 | 0,75       |
| 1909 | 541,127              | 91,106               | 632,234          | 75,266        | 17,417 | 0,73       |
| 1910 | 532,209              | 93,323               | 625,531          | 74,468        | 17,233 | 0,72       |

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|      | Tonnage<br>Sailships | Tonnage<br>Sailboats | Tonnage<br>Total | Power<br>(CV) | Toe    | Petajoules |
|------|----------------------|----------------------|------------------|---------------|--------|------------|
| 1911 | 505,519              | 97,147               | 602,666          | 71,746        | 16,603 | 0,69       |
| 1912 | 461,047              | 97,765               | 558,812          | 66,525        | 15,395 | 0,64       |
| 1913 | 437,834              | 98,295               | 536,130          | 63,825        | 14,770 | 0,62       |
| 1914 | 429,220              | 98,395               | 527,615          | 62,811        | 14,535 | 0,61       |
| 1915 | 408,682              | 86,645               | 495,327          | 58,968        | 13,646 | 0,57       |
| 1916 | 321,976              | 61,891               | 383,867          | 45,698        | 10,575 | 0,44       |
| 1917 | 268,753              | 60,962               | 329,715          | 39,252        | 9,083  | 0,38       |
| 1918 | 255,315              | 47,949               | 303,264          | 36,103        | 8,355  | 0,35       |
| 1919 | 242,549              | 53,695               | 296,244          | 35,267        | 8,161  | 0,34       |
| 1920 | 230,422              | 71,427               | 301,849          | 35,934        | 8,316  | 0,35       |
| 1921 | 218,901              | 79,337               | 298,238          | 35,504        | 8,216  | 0,34       |
| 1922 | 207,956              | 84,244               | 292,200          | 34,786        | 8,050  | 0,34       |
| 1923 | 197,558              | 89,154               | 286,712          | 34,132        | 7,899  | 0,33       |
| 1924 | 191,182              | 94,066               | 285,248          | 33,958        | 7,858  | 0,33       |
| 1925 | 168,255              | 98,957               | 267,212          | 31,811        | 7,361  | 0,31       |
| 1926 | 154,809              | 103,697              | 258,506          | 30,775        | 7,122  | 0,30       |
| 1927 | 151,793              | 104,593              | 256,386          | 30,522        | 7,063  | 0,30       |
| 1928 | 143,952              | 101,413              | 245,365          | 29,210        | 6,760  | 0,28       |
| 1929 | 135,383              | 104,385              | 239,768          | 28,544        | 6,605  | 0,28       |
| 1930 | 127,583              | 104,569              | 232,152          | 27,637        | 6,396  | 0,27       |
| 1931 | 120,741              | 105,784              | 226,525          | 26,967        | 6,240  | 0,26       |
| 1932 | 119,837              | 106,968              | 226,805          | 27,001        | 6,248  | 0,26       |
| 1933 | 115,820              | 104,154              | 219,974          | 26,187        | 6,060  | 0,25       |
| 1934 | 112,249              | 107,303              | 219,552          | 26,137        | 6,048  | 0,25       |
| 1935 | 108,531              | 104,921              | 213,452          | 25,411        | 5,880  | 0,25       |
| 1936 | 103,576              | 105,540              | 209,116          | 24,895        | 5,761  | 0,24       |
| 1937 | 101,606              | 101,153              | 202,759          | 24,138        | 5,586  | 0,23       |
| 1938 | 98,699               | 99,830               | 198,529          | 23,634        | 5,469  | 0,23       |
| 1939 | 99,352               | 101,696              | 201,048          | 23,934        | 5,539  | 0,23       |
| 1940 | 99,283               | 98,269               | 197,552          | 23,518        | 5,442  | 0,23       |
| 1941 | 95,055               | 78,615               | 173,670          | 20,675        | 4,784  | 0,20       |
| 1942 | 91,263               | 77,043               | 168,306          | 20,036        | 4,637  | 0,19       |
| 1943 | 73,923               | 73,191               | 147,114          | 17,514        | 4,053  | 0,17       |
| 1944 | 59,877               | 54,239               | 114,116          | 13,585        | 3,144  | 0,13       |
| 1945 | 48,426               | 57,163               | 105,589          | 12,570        | 2,909  | 0,12       |
| 1946 | 72,850               | 61,192               | 134,042          | 15,957        | 3,693  | 0,15       |
| 1947 | 79,492               | 65,513               | 145,005          | 17,263        | 3,995  | 0,17       |
| 1948 | 81,114               | 59,008               | 140,122          | 16,681        | 3,860  | 0,16       |
| 1949 | 81,494               | 58,906               | 140,400          | 16,714        | 3,868  | 0,16       |
| 1950 | 76,983               | 61,655               | 138,638          | 16,505        | 3,819  | 0,16       |
| 1951 | 78,672               | 59,704               | 138,376          | 16,473        | 3,812  | 0,16       |
| 1952 | 79,296               | 58,071               | 137,367          | 16,353        | 3,784  | 0,16       |
| 1953 | 76,423               | 56,989               | 133,412          | 15,882        | 3,675  | 0,15       |
| 1954 | 71,823               | 55,013               | 126,836          | 15,100        | 3,494  | 0,15       |
| 1955 | 70,284               | 52,301               | 122,585          | 14,593        | 3,377  | 0,14       |
| 1956 | 66,808               | 47,215               | 114,023          | 13,574        | 3,141  | 0,13       |
| 1957 | 66,170               | 44,938               | 111,108          | 13,227        | 3,061  | 0,13       |
| 1958 | 64,634               | 45,659               | 110,293          | 13,130        | 3,038  | 0,13       |
| 1959 | 62,295               | 44,672               | 106,967          | 12,734        | 2,947  | 0,12       |
| 1960 | 60,238               | 41,782               | 102,020          | 12,145        | 2,811  | 0,12       |

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|      | Tonnage<br>Sailships | Tonnage<br>Sailboats | Tonnage<br>Total | Power<br>(CV) | Toe   | Petajoules |
|------|----------------------|----------------------|------------------|---------------|-------|------------|
| 1961 | 58,798               | 40,255               | 99,053           | 11,792        | 2,729 | 0,11       |
| 1962 | 58,302               | 39,999               | 98,301           | 11,703        | 2,708 | 0,11       |
| 1963 | 56,630               | 39,330               | 95,960           | 11,424        | 2,644 | 0,11       |
| 1964 | 55,514               | 38,414               | 93,928           | 11,182        | 2,588 | 0,11       |
| 1965 | 57,397               | 37,361               | 94,758           | 11,281        | 2,610 | 0,11       |
| 1966 | 57,654               | 36,609               | 94,263           | 11,222        | 2,597 | 0,11       |
| 1967 | 57,788               | 35,952               | 93,740           | 11,160        | 2,582 | 0,11       |
| 1968 | 56,958               | 36,762               | 93,720           | 11,157        | 2,582 | 0,11       |
| 1969 | 57,287               | 35,925               | 93,212           | 11,097        | 2,568 | 0,11       |
| 1970 | 58,447               | 35,103               | 93,550           | 11,137        | 2,577 | 0,11       |
| 1971 | 58,163               | 34,950               | 93,113           | 11,085        | 2,565 | 0,11       |
| 1972 | 57,945               | 33,135               | 91,080           | 10,843        | 2,509 | 0,11       |
| 1973 | 53,328               | 32,147               | 85,475           | 10,176        | 2,355 | 0,10       |
| 1974 | 48,925               | 30,893               | 79,818           | 9,502         | 2,199 | 0,09       |
| 1975 | 48,387               | 31,035               | 79,422           | 9,455         | 2,188 | 0,09       |
| 1976 | 46,255               | 28,036               | 74,291           | 8,844         | 2,047 | 0,09       |
| 1977 | 44,216               | 26,693               | 70,909           | 8,442         | 1,953 | 0,08       |
| 1978 | 42,268               | 25,491               | 67,759           | 8,066         | 1,867 | 0,08       |
| 1979 | 40,405               | 22,582               | 62,987           | 7,498         | 1,735 | 0,07       |
| 1980 | 38,624               | 15,732               | 54,356           | 6,471         | 1,497 | 0,06       |
| 1981 | 36,922               | 14,957               | 51,879           | 6,176         | 1,429 | 0,06       |
| 1982 | 35,295               | 14,612               | 49,907           | 5,941         | 1,375 | 0,06       |
| 1983 | 33,739               | 13,105               | 46,844           | 5,577         | 1,291 | 0,05       |
| 1984 | 32,253               | 11,754               | 44,006           | 5,239         | 1,212 | 0,05       |
| 1985 | 30,831               | 10,541               | 41,373           | 4,925         | 1,140 | 0,05       |
| 1986 | 29,472               | 9,454                | 38,927           | 4,634         | 1,072 | 0,04       |
| 1987 | 28,174               | 8,479                | 36,653           | 4,363         | 1,010 | 0,04       |
| 1988 | 26,932               | 7,605                | 34,537           | 4,112         | 951   | 0,04       |
| 1989 | 25,745               | 6,820                | 32,566           | 3,877         | 897   | 0,04       |
| 1990 | 24,610               | 6,117                | 30,728           | 3,658         | 847   | 0,04       |
| 1991 | 23,526               | 5,486                | 29,012           | 3,454         | 799   | 0,03       |
| 1992 | 22,489               | 4,920                | 27,410           | 3,263         | 755   | 0,03       |
| 1993 | 21,498               | 4,413                | 25,911           | 3,085         | 714   | 0,03       |
| 1994 | 20,551               | 3,958                | 24,508           | 2,918         | 675   | 0,03       |
| 1995 | 19,645               | 3,550                | 23,195           | 2,761         | 639   | 0,03       |
| 1996 | 18,779               | 3,184                | 21,963           | 2,615         | 605   | 0,03       |
| 1997 | 17,952               | 2,855                | 20,807           | 2,477         | 573   | 0,02       |
| 1998 | 17,160               | 2,561                | 19,721           | 2,348         | 543   | 0,02       |
| 1999 | 16,404               | 2,297                | 18,701           | 2,226         | 515   | 0,02       |
| 2000 | 15,681               | 2,060                | 17,741           | 2,112         | 489   | 0,02       |

## 5. Water (Appendix I, 1, col. 5)

|      | Mills<br>% | Others<br>% | Toe    | Petajoules |
|------|------------|-------------|--------|------------|
| 1861 | 35         | 65          | 82,875 | 3.47       |
| 1862 | 35         | 65          | 83,395 | 3.49       |
| 1863 | 35         | 65          | 83,919 | 3.51       |
| 1864 | 35         | 65          | 84,449 | 3.53       |
| 1865 | 34         | 66          | 84,983 | 3.56       |
| 1866 | 34         | 66          | 76,487 | 3.20       |
| 1867 | 34         | 66          | 76,974 | 3.22       |
| 1868 | 34         | 66          | 77,466 | 3.24       |
| 1869 | 34         | 66          | 77,963 | 3.26       |
| 1870 | 33         | 67          | 78,355 | 3.28       |
| 1871 | 33         | 67          | 76,594 | 3.21       |
| 1872 | 33         | 67          | 76,985 | 3.22       |
| 1873 | 32         | 68          | 77,382 | 3.24       |
| 1874 | 32         | 68          | 77,784 | 3.26       |
| 1875 | 32         | 68          | 78,191 | 3.27       |
| 1876 | 31         | 69          | 78,604 | 3.29       |
| 1877 | 31         | 69          | 83,764 | 3.51       |
| 1878 | 31         | 69          | 84,075 | 3.52       |
| 1879 | 30         | 70          | 84,394 | 3.53       |
| 1880 | 30         | 70          | 84,721 | 3.55       |
| 1881 | 29         | 71          | 85,056 | 3.56       |
| 1882 | 29         | 71          | 85,398 | 3.57       |
| 1883 | 29         | 71          | 85,909 | 3.60       |
| 1884 | 29         | 71          | 86,426 | 3.62       |
| 1885 | 28         | 72          | 86,949 | 3.64       |
| 1886 | 28         | 72          | 87,478 | 3.66       |
| 1887 | 28         | 72          | 88,012 | 3.68       |
| 1888 | 28         | 72          | 83,541 | 3.50       |
| 1889 | 29         | 71          | 78,969 | 3.30       |
| 1890 | 31         | 69          | 74,731 | 3.13       |
| 1891 | 32         | 68          | 70,804 | 2.96       |
| 1892 | 34         | 66          | 67,164 | 2.81       |
| 1893 | 36         | 64          | 63,790 | 2.67       |
| 1894 | 37         | 63          | 60,663 | 2.54       |
| 1895 | 39         | 61          | 57,762 | 2.42       |
| 1896 | 41         | 59          | 55,073 | 2.30       |
| 1897 | 43         | 57          | 52,579 | 2.20       |
| 1898 | 44         | 56          | 50,266 | 2.10       |
| 1899 | 46         | 54          | 48,119 | 2.01       |
| 1900 | 48         | 52          | 46,128 | 1.93       |
| 1901 | 50         | 50          | 44,280 | 1.85       |
| 1902 | 52         | 48          | 42,565 | 1.78       |
| 1903 | 54         | 46          | 40,972 | 1.71       |
| 1904 | 53         | 47          | 41,392 | 1.73       |
| 1905 | 53         | 47          | 40,418 | 1.69       |
| 1906 | 54         | 46          | 39,474 | 1.65       |
| 1907 | 55         | 45          | 38,560 | 1.61       |
| 1908 | 55         | 45          | 37,674 | 1.58       |
| 1909 | 56         | 44          | 36,816 | 1.54       |
| 1910 | 57         | 43          | 35,984 | 1.51       |

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|      | <b>Mills</b> | <b>Others</b> | <b>Toe</b> | <b>Petajoules</b> |
|------|--------------|---------------|------------|-------------------|
|      | <b>%</b>     | <b>%</b>      |            |                   |
| 1911 | 45           | 55            | 45,071     | 1.89              |
| 1912 | 46           | 54            | 44,006     | 1.84              |
| 1913 | 46           | 54            | 42,978     | 1.80              |
| 1914 | 47           | 53            | 41,984     | 1.76              |
| 1915 | 48           | 52            | 41,025     | 1.72              |
| 1916 | 49           | 51            | 40,098     | 1.68              |
| 1917 | 50           | 50            | 39,203     | 1.64              |
| 1918 | 51           | 49            | 38,337     | 1.60              |
| 1919 | 51           | 49            | 35,898     | 1.50              |
| 1920 | 52           | 48            | 35,124     | 1.47              |
| 1921 | 53           | 47            | 34,376     | 1.44              |
| 1922 | 54           | 46            | 33,653     | 1.41              |
| 1923 | 55           | 45            | 32,954     | 1.38              |
| 1924 | 55           | 45            | 32,278     | 1.35              |
| 1925 | 56           | 44            | 31,625     | 1.32              |
| 1926 | 57           | 43            | 30,992     | 1.30              |
| 1927 | 58           | 42            | 30,380     | 1.27              |
| 1928 | 59           | 41            | 30,229     | 1.27              |
| 1929 | 61           | 39            | 30,102     | 1.26              |
| 1930 | 62           | 38            | 29,999     | 1.26              |
| 1931 | 63           | 37            | 29,920     | 1.25              |
| 1932 | 65           | 35            | 29,864     | 1.25              |
| 1933 | 66           | 34            | 29,831     | 1.25              |
| 1934 | 67           | 33            | 29,820     | 1.25              |
| 1935 | 68           | 32            | 29,831     | 1.25              |
| 1936 | 70           | 30            | 29,863     | 1.25              |
| 1937 | 71           | 29            | 29,916     | 1.25              |
| 1938 | 72           | 28            | 29,586     | 1.24              |
| 1939 | 72           | 28            | 29,268     | 1.22              |
| 1940 | 73           | 27            | 28,962     | 1.21              |
| 1941 | 74           | 26            | 28,668     | 1.20              |
| 1942 | 75           | 25            | 28,385     | 1.19              |
| 1943 | 75           | 25            | 28,112     | 1.18              |
| 1944 | 76           | 24            | 27,850     | 1.17              |
| 1945 | 77           | 23            | 27,598     | 1.15              |
| 1946 | 78           | 22            | 27,356     | 1.14              |
| 1947 | 78           | 22            | 27,536     | 1.15              |
| 1948 | 79           | 21            | 27,308     | 1.14              |
| 1949 | 79           | 21            | 27,088     | 1.13              |
| 1950 | 80           | 20            | 26,878     | 1.12              |
| 1951 | 79           | 21            | 15,153     | 0.63              |
| 1952 | 78           | 22            | 8,550      | 0.36              |
| 1953 | 77           | 23            | 4,828      | 0.20              |
| 1954 | 75           | 25            | 2,729      | 0.11              |
| 1955 | 74           | 26            | 1,544      | 0.06              |
| 1956 | 73           | 27            | 874        | 0.04              |
| 1957 | 71           | 29            | 495        | 0.02              |
| 1958 | 70           | 30            | 281        | 0.01              |
| 1959 | 68           | 32            | 160        | 0.01              |
| 1960 | 67           | 33            | 91         | 0.00              |

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|             | <b>Mills</b> | <b>Others</b> | <b>Toe</b> | <b>Petajoules</b> |
|-------------|--------------|---------------|------------|-------------------|
|             | <b>%</b>     | <b>%</b>      |            |                   |
| <b>1961</b> | 65           | 35            | 52         | 0.00              |
| <b>1962</b> | 64           | 36            | 29         | 0.00              |
| <b>1963</b> | 62           | 38            | 17         | 0.00              |
| <b>1964</b> | 60           | 40            | 10         | 0.00              |
| <b>1965</b> | 59           | 41            | 5          | 0.00              |
| <b>1966</b> | 57           | 43            | 3          | 0.00              |
| <b>1967</b> | 55           | 45            | 2          | 0.00              |
| <b>1968</b> | 53           | 47            | 1          | 0.00              |
| <b>1969</b> | 52           | 48            | 1          | 0.00              |
| <b>1970</b> | 50           | 50            | 0          | 0.00              |

**6. Fossil fuels (App. I, 1, col. 6)**

|      | Coal      |         | Oil     |         | Gas   |         | Totals    |            |
|------|-----------|---------|---------|---------|-------|---------|-----------|------------|
|      | Toe       | Pjoules | Toe     | Pjoules | Toe   | Pjoules | Toe       | Petajoules |
| 1861 | 834,009   | 35      |         |         |       |         | 834,009   | 35         |
| 1862 | 739,776   | 31      |         |         |       |         | 739,776   | 31         |
| 1863 | 750,114   | 31      |         |         |       |         | 750,114   | 31         |
| 1864 | 727,342   | 30      | 1,593   |         |       |         | 728,935   | 31         |
| 1865 | 733,934   | 31      | 9,559   |         |       |         | 743,492   | 31         |
| 1866 | 723,447   | 30      | 13,541  | 1       |       |         | 736,988   | 31         |
| 1867 | 742,623   | 31      | 19,914  | 1       |       |         | 762,537   | 32         |
| 1868 | 741,125   | 31      | 38,234  | 2       |       |         | 779,359   | 33         |
| 1869 | 742,173   | 31      | 31,862  | 1       |       |         | 774,036   | 32         |
| 1870 | 753,859   | 32      | 41,421  | 2       |       |         | 795,280   | 33         |
| 1871 | 622,650   | 26      | 45,616  | 2       |       |         | 668,266   | 28         |
| 1872 | 760,538   | 32      | 44,566  | 2       |       |         | 805,104   | 34         |
| 1873 | 731,348   | 31      | 36,097  | 2       |       |         | 767,446   | 32         |
| 1874 | 806,826   | 34      | 46,717  | 2       |       |         | 853,542   | 36         |
| 1875 | 824,401   | 35      | 47,797  | 2       |       |         | 872,198   | 37         |
| 1876 | 1,096,978 | 46      | 47,046  | 2       |       |         | 1,144,024 | 48         |
| 1877 | 1,000,754 | 42      | 53,405  | 2       |       |         | 1,054,159 | 44         |
| 1878 | 1,034,283 | 43      | 44,072  | 2       |       |         | 1,078,355 | 45         |
| 1879 | 1,184,675 | 50      | 62,944  | 3       |       |         | 1,247,619 | 52         |
| 1880 | 1,337,358 | 56      | 61,781  | 3       |       |         | 1,399,140 | 59         |
| 1881 | 1,563,337 | 65      | 63,798  | 3       |       |         | 1,627,135 | 68         |
| 1882 | 1,694,688 | 71      | 65,918  | 3       |       |         | 1,760,606 | 74         |
| 1883 | 1,820,758 | 76      | 72,277  | 3       |       |         | 1,893,035 | 79         |
| 1884 | 2,008,374 | 84      | 78,842  | 3       |       |         | 2,087,216 | 87         |
| 1885 | 2,270,896 | 95      | 98,877  | 4       |       |         | 2,369,773 | 99         |
| 1886 | 2,262,949 | 95      | 75,457  | 3       |       |         | 2,338,406 | 98         |
| 1887 | 2,763,658 | 116     | 79,696  | 3       |       |         | 2,843,354 | 119        |
| 1888 | 2,972,784 | 124     | 74,397  | 3       |       |         | 3,047,181 | 128        |
| 1889 | 3,069,029 | 128     | 75,457  | 3       |       |         | 3,144,485 | 132        |
| 1890 | 3,352,427 | 140     | 75,662  | 3       |       |         | 3,428,090 | 143        |
| 1891 | 3,008,487 | 126     | 78,400  | 3       |       |         | 3,086,887 | 129        |
| 1892 | 2,984,571 | 125     | 82,577  | 3       |       |         | 3,067,149 | 128        |
| 1893 | 2,885,984 | 121     | 82,577  | 3       |       |         | 2,968,561 | 124        |
| 1894 | 3,616,520 | 151     | 81,517  | 3       |       |         | 3,698,038 | 155        |
| 1895 | 3,324,151 | 139     | 77,247  | 3       |       |         | 3,401,398 | 142        |
| 1896 | 3,148,912 | 132     | 77,278  | 3       | 253   | 0.01    | 3,226,443 | 135        |
| 1897 | 3,288,933 | 138     | 75,189  | 3       | 253   | 0.01    | 3,364,375 | 141        |
| 1898 | 3,416,390 | 143     | 77,309  | 3       | 422   | 0.02    | 3,494,121 | 146        |
| 1899 | 3,752,503 | 157     | 77,309  | 3       | 675   | 0.03    | 3,830,486 | 160        |
| 1900 | 3,837,822 | 161     | 79,429  | 3       | 1,181 | 0.05    | 3,918,432 | 164        |
| 1901 | 3,755,777 | 157     | 75,189  | 3       | 1,181 | 0.05    | 3,832,147 | 160        |
| 1902 | 4,179,321 | 175     | 76,218  | 3       | 1,266 | 0.05    | 4,256,804 | 178        |
| 1903 | 4,267,588 | 179     | 74,129  | 3       | 1,941 | 0.08    | 4,343,658 | 182        |
| 1904 | 4,540,762 | 190     | 77,247  | 3       | 2,194 | 0.09    | 4,620,203 | 193        |
| 1905 | 4,948,730 | 207     | 82,588  | 3       | 2,616 | 0.11    | 5,033,933 | 211        |
| 1906 | 5,922,337 | 248     | 81,497  | 3       | 4,810 | 0.20    | 6,008,644 | 251        |
| 1907 | 6,399,552 | 268     | 98,414  | 4       | 4,810 | 0.20    | 6,502,775 | 272        |
| 1908 | 6,526,871 | 273     | 117,409 | 5       | 5,653 | 0.24    | 6,649,933 | 278        |
| 1909 | 7,196,564 | 301     | 133,142 | 6       | 7,003 | 0.29    | 7,336,709 | 307        |
| 1910 | 7,213,552 | 302     | 136,229 | 6       | 7,425 | 0.31    | 7,357,207 | 308        |

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|      | Coal       |         | Oil        |         | Gas       |         | Totals     | Total      |
|------|------------|---------|------------|---------|-----------|---------|------------|------------|
|      | Toe        | Pjoules | Toe        | Pjoules | Toe       | Pjoules | Toe        | Petajoules |
| 1911 | 7,394,574  | 309     | 201,499    | 8       | 7,594     | 0.32    | 7,603,667  | 318        |
| 1912 | 7,735,733  | 324     | 221,914    | 9       | 5,738     | 0.24    | 7,963,385  | 333        |
| 1913 | 8,310,762  | 348     | 244,995    | 10      | 5,063     | 0.21    | 8,560,819  | 358        |
| 1914 | 7,472,516  | 313     | 211,984    | 9       | 4,978     | 0.21    | 7,689,478  | 322        |
| 1915 | 6,498,943  | 272     | 239,819    | 10      | 4,894     | 0.20    | 6,743,655  | 282        |
| 1916 | 6,444,303  | 270     | 280,495    | 12      | 4,810     | 0.20    | 6,729,608  | 282        |
| 1917 | 4,325,829  | 181     | 313,804    | 13      | 5,653     | 0.24    | 4,645,286  | 194        |
| 1918 | 5,071,082  | 212     | 382,829    | 16      | 5,653     | 0.24    | 5,459,564  | 228        |
| 1919 | 4,800,097  | 201     | 307,074    | 13      | 7,108     | 0.30    | 5,114,279  | 214        |
| 1920 | 4,588,623  | 192     | 343,430    | 14      | 6,139     | 0.26    | 4,938,191  | 207        |
| 1921 | 5,582,832  | 234     | 306,532    | 13      | 6,381     | 0.27    | 5,895,745  | 247        |
| 1922 | 6,454,535  | 270     | 379,855    | 16      | 5,412     | 0.23    | 6,839,802  | 286        |
| 1923 | 6,674,754  | 279     | 466,171    | 20      | 5,573     | 0.23    | 7,146,498  | 299        |
| 1924 | 8,311,035  | 348     | 622,412    | 26      | 5,412     | 0.23    | 8,938,858  | 374        |
| 1925 | 7,911,055  | 331     | 698,237    | 29      | 5,654     | 0.24    | 8,614,946  | 361        |
| 1926 | 9,180,305  | 384     | 732,781    | 31      | 4,846     | 0.20    | 9,917,932  | 415        |
| 1927 | 10,392,901 | 435     | 840,648    | 35      | 4,685     | 0.20    | 11,238,234 | 470        |
| 1928 | 9,355,067  | 392     | 906,702    | 38      | 5,169     | 0.22    | 10,266,939 | 430        |
| 1929 | 10,790,840 | 452     | 1,126,613  | 47      | 5,654     | 0.24    | 11,923,108 | 499        |
| 1930 | 9,633,965  | 403     | 1,398,158  | 59      | 7,027     | 0.29    | 11,039,150 | 462        |
| 1931 | 8,237,050  | 345     | 1,416,479  | 59      | 9,773     | 0.41    | 9,663,302  | 404        |
| 1932 | 6,555,324  | 274     | 1,440,040  | 60      | 10,419    | 0.44    | 8,005,784  | 335        |
| 1933 | 7,174,657  | 300     | 1,645,679  | 69      | 11,146    | 0.47    | 8,831,482  | 370        |
| 1934 | 9,516,972  | 398     | 1,751,084  | 73      | 12,116    | 0.51    | 11,280,171 | 472        |
| 1935 | 10,948,162 | 458     | 1,870,003  | 78      | 10,015    | 0.42    | 12,828,180 | 537        |
| 1936 | 7,370,061  | 308     | 1,708,108  | 71      | 10,500    | 0.44    | 9,088,669  | 380        |
| 1937 | 10,238,489 | 428     | 2,348,969  | 98      | 12,277    | 0.51    | 12,599,735 | 527        |
| 1938 | 9,816,450  | 411     | 2,410,068  | 101     | 13,812    | 0.58    | 12,240,330 | 512        |
| 1939 | 9,545,949  | 399     | 2,572,160  | 108     | 16,316    | 0.68    | 12,134,425 | 508        |
| 1940 | 11,676,159 | 489     | 1,702,957  | 71      | 22,454    | 0.94    | 13,401,570 | 561        |
| 1941 | 10,164,827 | 425     | 611,439    | 26      | 34,085    | 1.43    | 10,810,350 | 452        |
| 1942 | 9,741,875  | 408     | 670,815    | 28      | 44,181    | 1.85    | 10,456,870 | 438        |
| 1943 | 7,308,300  | 306     | 497,415    | 21      | 44,424    | 1.86    | 7,850,139  | 329        |
| 1944 | 2,966,601  | 124     | 26,595     | 1       | 39,820    | 1.67    | 3,033,016  | 127        |
| 1945 | 2,472,628  | 103     | 21,670     | 1       | 33,843    | 1.42    | 2,528,140  | 106        |
| 1946 | 4,979,106  | 208     | 1,132,001  | 47      | 51,693    | 2.16    | 6,162,800  | 258        |
| 1947 | 7,461,225  | 312     | 3,518,120  | 147     | 76,670    | 3.21    | 11,056,015 | 463        |
| 1948 | 7,233,279  | 303     | 3,065,550  | 128     | 95,776    | 4.01    | 10,394,605 | 435        |
| 1949 | 7,787,520  | 326     | 4,195,950  | 176     | 204,508   | 8.56    | 12,187,978 | 510        |
| 1950 | 7,514,958  | 315     | 5,132,650  | 215     | 417,872   | 17.49   | 13,065,480 | 547        |
| 1951 | 8,317,609  | 348     | 6,826,170  | 286     | 792,366   | 33.16   | 15,936,145 | 667        |
| 1952 | 7,733,849  | 324     | 7,557,950  | 316     | 1,174,732 | 49.16   | 16,466,531 | 689        |
| 1953 | 7,724,561  | 323     | 8,872,570  | 371     | 1,884,278 | 78.86   | 18,481,409 | 773        |
| 1954 | 8,196,178  | 343     | 10,676,970 | 447     | 2,445,732 | 102.35  | 21,318,880 | 892        |
| 1955 | 8,364,990  | 350     | 11,368,070 | 476     | 2,974,140 | 124.47  | 22,707,200 | 950        |
| 1956 | 8,279,000  | 346     | 11,390,400 | 477     | 3,662,000 | 153.25  | 23,331,400 | 976        |
| 1957 | 8,931,955  | 374     | 13,838,780 | 579     | 4,090,160 | 171.17  | 26,860,895 | 1,124      |
| 1958 | 7,158,000  | 300     | 13,482,000 | 564     | 4,244,000 | 177.61  | 24,884,000 | 1,041      |
| 1959 | 7,542,210  | 316     | 17,918,590 | 750     | 5,016,760 | 209.95  | 30,477,560 | 1,275      |
| 1960 | 8,138,430  | 341     | 21,133,020 | 884     | 5,286,540 | 221.24  | 34,557,990 | 1,446      |

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|      | Coal<br>Toe | Coal<br>Pjoules | Oil<br>Toe  | Oil<br>Pjoules | Gas<br>Toe | Gas<br>Pjoules | Totals<br>Toe | Total<br>Petajoules |
|------|-------------|-----------------|-------------|----------------|------------|----------------|---------------|---------------------|
| 1961 | 8,665,325   | 363             | 25,669,100  | 1,074          | 5,627,660  | 235.52         | 39,962,085    | 1,672               |
| 1962 | 9,286,495   | 389             | 31,282,740  | 1,309          | 5,863,000  | 245.37         | 46,432,235    | 1,943               |
| 1963 | 9,277,605   | 388             | 36,264,540  | 1,518          | 5,959,760  | 249.42         | 51,501,905    | 2,155               |
| 1964 | 8,271,940   | 346             | 42,639,730  | 1,784          | 6,260,700  | 262.01         | 57,172,370    | 2,393               |
| 1965 | 9,650,720   | 404             | 47,899,990  | 2,005          | 6,486,200  | 271.45         | 64,036,910    | 2,680               |
| 1966 | 9,091,770   | 380             | 52,647,150  | 2,203          | 6,915,060  | 289.40         | 68,653,980    | 2,873               |
| 1967 | 10,057,355  | 421             | 58,714,550  | 2,457          | 7,548,920  | 315.92         | 76,320,825    | 3,194               |
| 1968 | 9,576,230   | 401             | 67,369,610  | 2,819          | 8,803,520  | 368.43         | 85,749,360    | 3,589               |
| 1969 | 10,053,225  | 421             | 73,077,330  | 3,058          | 9,809,250  | 410.52         | 92,939,805    | 3,890               |
| 1970 | 9,756,720   | 408             | 85,880,860  | 3,594          | 10,629,300 | 444.84         | 106,266,880   | 4,447               |
| 1971 | 9,404,075   | 394             | 90,488,450  | 3,787          | 10,891,650 | 455.82         | 110,784,175   | 4,636               |
| 1972 | 9,900,000   | 414             | 98,600,000  | 4,126          | 12,600,000 | 527.31         | 121,100,000   | 5,068               |
| 1973 | 10,200,000  | 427             | 105,300,000 | 4,407          | 14,300,000 | 598.46         | 129,800,000   | 5,432               |
| 1974 | 10,900,000  | 456             | 101,700,000 | 4,256          | 16,000,000 | 669.60         | 128,600,000   | 5,382               |
| 1975 | 9,800,000   | 410             | 93,600,000  | 3,917          | 18,300,000 | 765.86         | 121,700,000   | 5,093               |
| 1976 | 10,200,000  | 427             | 99,500,000  | 4,164          | 22,100,000 | 924.89         | 131,800,000   | 5,516               |
| 1977 | 10,000,000  | 419             | 95,400,000  | 3,992          | 21,700,000 | 908.15         | 127,100,000   | 5,319               |
| 1978 | 10,000,000  | 419             | 99,200,000  | 4,152          | 22,500,000 | 941.63         | 131,700,000   | 5,512               |
| 1979 | 11,300,000  | 473             | 102,100,000 | 4,273          | 22,900,000 | 958.37         | 136,300,000   | 5,704               |
| 1980 | 12,540,000  | 525             | 98,830,000  | 4,136          | 22,800,000 | 954.18         | 134,170,000   | 5,615               |
| 1981 | 13,550,000  | 567             | 95,459,000  | 3,995          | 22,090,000 | 924.47         | 131,099,000   | 5,486               |
| 1982 | 14,130,000  | 591             | 90,450,000  | 3,785          | 22,030,000 | 921.96         | 126,610,000   | 5,299               |
| 1983 | 13,240,000  | 554             | 89,670,000  | 3,753          | 22,590,000 | 945.39         | 125,500,000   | 5,252               |
| 1984 | 15,070,000  | 631             | 85,110,000  | 3,562          | 26,580,000 | 1,112.37       | 126,760,000   | 5,305               |
| 1985 | 16,140,000  | 675             | 85,640,000  | 3,584          | 27,270,000 | 1,141.25       | 129,050,000   | 5,401               |
| 1986 | 15,300,000  | 640             | 86,310,000  | 3,612          | 28,880,000 | 1,208.63       | 130,490,000   | 5,461               |
| 1987 | 15,850,000  | 663             | 89,890,000  | 3,762          | 32,140,000 | 1,345.06       | 137,880,000   | 5,770               |
| 1988 | 15,100,000  | 632             | 91,080,000  | 3,812          | 34,150,000 | 1,429.18       | 140,330,000   | 5,873               |
| 1989 | 14,980,000  | 627             | 93,970,000  | 3,933          | 36,870,000 | 1,543.01       | 145,820,000   | 6,103               |
| 1990 | 15,800,000  | 661             | 92,540,000  | 3,873          | 39,070,000 | 1,635.08       | 147,410,000   | 6,169               |
| 1991 | 15,060,000  | 630             | 91,750,000  | 3,840          | 41,520,000 | 1,737.61       | 148,330,000   | 6,208               |
| 1992 | 13,550,000  | 567             | 94,910,000  | 3,972          | 41,120,000 | 1,720.87       | 149,580,000   | 6,260               |
| 1993 | 11,970,000  | 501             | 93,240,000  | 3,902          | 42,100,000 | 1,761.89       | 147,310,000   | 6,165               |
| 1994 | 11,400,000  | 477             | 92,100,000  | 3,854          | 40,700,000 | 1,703.30       | 144,200,000   | 6,035               |
| 1995 | 12,500,000  | 523             | 95,700,000  | 4,005          | 44,800,000 | 1,874.88       | 153,000,000   | 6,403               |
| 1996 | 11,300,000  | 473             | 94,300,000  | 3,946          | 46,400,000 | 1,941.84       | 152,000,000   | 6,361               |
| 1997 | 11,700,000  | 490             | 94,900,000  | 3,972          | 47,800,000 | 2,000.43       | 154,400,000   | 6,462               |
| 1998 | 12,100,000  | 506             | 94,900,000  | 3,972          | 51,500,000 | 2,155.28       | 158,500,000   | 6,633               |
| 1999 | 12,200,000  | 511             | 92,400,000  | 3,867          | 56,000,000 | 2,343.60       | 160,600,000   | 6,721               |
| 2000 | 12,900,000  | 540             | 91,300,000  | 3,821          | 58,400,000 | 2,444.04       | 162,600,000   | 6,805               |

## 7. Primary electricity (Appendix I, 1, col. 7)

|      | Hydro               | Geo                 | Nuclear             | Aeolic<br>Photov.   | Import              | Total<br>(without<br>thermoel.)<br>TOE | Total<br>(without<br>thermoel.)<br>Petajoules | Thermo<br>KWh 10 <sup>6</sup> |
|------|---------------------|---------------------|---------------------|---------------------|---------------------|--|---|-------------------------------|
|      | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> |  |   | KWh 10 <sup>6</sup>           |
| 1883 |                     |                     |                     |                     |                     |  |   | 1                             |
| 1884 |                     |                     |                     |                     |                     |  |   | 2                             |
| 1885 |                     |                     |                     |                     |                     |  |   | 3                             |
| 1886 |                     |                     |                     |                     |                     |  |   | 3                             |
| 1887 | 0.2                 |                     |                     |                     |                     | 23                                     | 0.001   | 3                             |
| 1888 | 1                   |                     |                     |                     |                     | 57                                     | 0.002   | 5                             |
| 1889 | 1                   |                     |                     |                     |                     | 103                                    | 0.004   | 5                             |
| 1890 | 1                   |                     |                     |                     |                     | 114                                    | 0.005   | 7                             |
| 1891 | 1                   |                     |                     |                     |                     | 149                                    | 0.006   | 14                            |
| 1892 | 3                   |                     |                     |                     |                     | 343                                    | 0.014   | 19                            |
| 1893 | 8                   |                     |                     |                     |                     | 915                                    | 0.038   | 20                            |
| 1894 | 10                  |                     |                     |                     |                     | 1,144                                  | 0.048   | 23                            |
| 1895 | 20                  |                     |                     |                     |                     | 2,230                                  | 0.093   | 26                            |
| 1896 | 22                  |                     |                     |                     |                     | 2,516                                  | 0.105   | 28                            |
| 1897 | 44                  |                     |                     |                     |                     | 5,033                                  | 0.211   | 31                            |
| 1898 | 66                  |                     |                     |                     |                     | 7,549                                  | 0.316   | 34                            |
| 1899 | 90                  |                     |                     |                     |                     | 10,294                                 | 0.431   | 50                            |
| 1900 | 110                 |                     |                     |                     |                     | 12,582                                 | 0.527   | 50                            |
| 1901 | 160                 |                     |                     |                     |                     | 18,301                                 | 0.766   | 60                            |
| 1902 | 220                 |                     |                     |                     |                     | 25,164                                 | 1.053   | 80                            |
| 1903 | 300                 |                     |                     |                     |                     | 34,314                                 | 1.436   | 100                           |
| 1904 | 350                 |                     |                     |                     |                     | 40,033                                 | 1.675   | 100                           |
| 1905 | 400                 |                     |                     |                     |                     | 45,752                                 | 1.915   | 150                           |
| 1906 | 550                 |                     |                     |                     |                     | 62,909                                 | 2.633   | 150                           |
| 1907 | 800                 |                     |                     |                     |                     | 91,504                                 | 3.829   | 150                           |
| 1908 | 975                 |                     |                     |                     |                     | 111,521                                | 4.667   | 175                           |
| 1909 | 1,100               |                     |                     |                     |                     | 125,818                                | 5.265   | 200                           |
| 1910 | 1,250               |                     |                     |                     |                     | 142,975                                | 5.984   | 250                           |
| 1911 | 1,500               |                     |                     |                     |                     | 171,570                                | 7.180   | 300                           |
| 1912 | 1,750               |                     |                     |                     |                     | 200,165                                | 8.377   | 250                           |
| 1913 | 2,000               |                     |                     |                     |                     | 228,760                                | 9.574   | 200                           |
| 1914 | 2,325               |                     |                     |                     |                     | 265,934                                | 11.129  | 250                           |
| 1915 | 2,625               |                     |                     |                     |                     | 300,248                                | 12.565  | 300                           |
| 1916 | 3,225               | 12                  |                     |                     |                     | 370,248                                | 15.495  | 188                           |
| 1917 | 3,775               | 20                  |                     |                     |                     | 434,072                                | 18.166  | 205                           |
| 1918 | 4,100               | 21                  |                     |                     |                     | 471,360                                | 19.726  | 179                           |
| 1919 | 3,790               | 14                  |                     |                     |                     | 435,102                                | 18.209  | 196                           |
| 1920 | 4,520               | 7                   |                     |                     |                     | 517,798                                | 21.670  | 163                           |
| 1921 | 4,250               | 19                  |                     |                     |                     | 488,288                                | 20.435  | 271                           |
| 1922 | 4,380               | 20                  |                     |                     |                     | 503,272                                | 21.062  | 330                           |
| 1923 | 5,360               | 25                  |                     |                     |                     | 615,936                                | 25.777  | 225                           |
| 1924 | 6,140               | 27                  |                     |                     |                     | 705,381                                | 29.520  | 283                           |
| 1925 | 6,870               | 31                  |                     |                     |                     | 789,336                                | 33.034  | 359                           |

(segue)

124 *Appendix II**(segue)*

|      | Hydro               | Geo                 | Nuclear             | Aeolic<br>Photov.   | Import              | Total<br>(without<br>thermoel.)<br>TOE | Total<br>(without<br>thermoel.)<br>Petajoules | Thermo<br>KWh 10 <sup>6</sup> |
|------|---------------------|---------------------|---------------------|---------------------|---------------------|--|---|-------------------------------|
|      | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> |  |   | KWh 10 <sup>6</sup>           |
| 1926 | 8,000               | 42                  |                     |                     | 223                 | 945,351                                | 39.563  | 348                           |
| 1927 | 8,430               | 51                  |                     |                     | 195                 | 992,361                                | 41.530  | 259                           |
| 1928 | 9,380               | 59                  |                     |                     | 229                 | 1,105,826                              | 46.279  | 191                           |
| 1929 | 9,970               | 60                  |                     |                     | 244                 | 1,175,140                              | 49.180  | 350                           |
| 1930 | 10,320              | 57                  |                     |                     | 164                 | 1,205,680                              | 50.458  | 293                           |
| 1931 | 10,180              | 53                  |                     |                     | 173                 | 1,190,238                              | 49.811  | 237                           |
| 1932 | 10,260              | 50                  |                     |                     | 169                 | 1,198,588                              | 50.161  | 280                           |
| 1933 | 11,300              | 76                  |                     |                     | 177                 | 1,321,432                              | 55.302  | 274                           |
| 1934 | 12,270              | 73                  |                     |                     | 206                 | 1,435,355                              | 60.070  | 257                           |
| 1935 | 13,420              | 82                  |                     |                     | 218                 | 1,569,294                              | 65.675  | 298                           |
| 1936 | 13,261              | 93                  |                     |                     | 214                 | 1,551,908                              | 64.947  | 294                           |
| 1937 | 14,861              | 125                 |                     |                     | 194                 | 1,736,288                              | 72.664  | 444                           |
| 1938 | 14,580              | 203                 |                     |                     | 244                 | 1,718,788                              | 71.931  | 761                           |
| 1939 | 17,006              | 488                 |                     |                     | 213                 | 2,025,327                              | 84.760  | 923                           |
| 1940 | 17,898              | 536                 |                     |                     | 252                 | 2,137,305                              | 89.446  | 996                           |
| 1941 | 19,270              | 649                 |                     |                     | 231                 | 2,304,757                              | 96.454  | 842                           |
| 1942 | 18,426              | 893                 |                     |                     | 247                 | 2,237,959                              | 93.659  | 914                           |
| 1943 | 16,794              | 909                 |                     |                     | 191                 | 2,046,716                              | 85.655  | 544                           |
| 1944 | 12,888              | 279                 |                     |                     | 31                  | 1,509,587                              | 63.176  | 378                           |
| 1945 | 12,276              | 92                  |                     |                     | 7                   | 1,415,453                              | 59.237  | 280                           |
| 1946 | 16,590              | 239                 |                     |                     | 76                  | 1,933,594                              | 80.921  | 656                           |
| 1947 | 18,904              | 672                 |                     |                     | 142                 | 2,255,345                              | 94.386  | 998                           |
| 1948 | 20,853              | 877                 |                     |                     | 188                 | 2,506,981                              | 104.917                                       | 964                           |
| 1949 | 17,383              | 1,056               |                     |                     | 140                 | 2,125,066                              | 88.934  | 2,343                         |
| 1950 | 21,605              | 1,278               |                     |                     | 129                 | 2,632,113                              | 110.154                                       | 1,798                         |
| 1951 | 26,354              | 1,585               |                     |                     | -62                 | 3,188,571                              | 133.442                                       | 1,284                         |
| 1952 | 27,105              | 1,839               |                     |                     | -10                 | 3,309,471                              | 138.501                                       | 1,899                         |
| 1953 | 27,797              | 1,880               |                     |                     | -48                 | 3,388,965                              | 141.828                                       | 2,942                         |
| 1954 | 29,217              | 1,881               |                     |                     | -333                | 3,518,901                              | 147.266                                       | 4,476                         |
| 1955 | 30,800              | 1,859               |                     |                     | 16                  | 3,737,367                              | 156.409                                       | 5,465                         |
| 1956 | 31,318              | 1,779               |                     |                     | 201                 | 3,808,625                              | 159.391                                       | 7,495                         |
| 1957 | 31,848              | 1,812               |                     |                     | 460                 | 3,902,646                              | 163.326                                       | 9,066                         |
| 1958 | 35,953              | 1,930               |                     |                     | 137                 | 4,348,728                              | 181.994                                       | 7,609                         |
| 1959 | 38,398              | 2,079               |                     |                     | 189                 | 4,651,377                              | 194.660                                       | 8,873                         |
| 1960 | 46,106              | 2,104               |                     |                     | -128                | 4,879,361                              | 204.201                                       | 8,030                         |
| 1961 | 41,982              | 2,292               |                     |                     | 168                 | 4,509,974                              | 188.742                                       | 16,291                        |
| 1962 | 39,264              | 2,346               |                     |                     | 1,269               | 4,351,361                              | 182.104                                       | 23,249                        |
| 1963 | 46,107              | 2,427               | 323                 |                     | 1,299               | 5,089,831                              | 213.009                                       | 22,478                        |
| 1964 | 39,328              | 2,527               | 2,402               |                     | 1,002               | 4,592,883                              | 192.212                                       | 32,482                        |
| 1965 | 43,008              | 2,576               | 3,510               |                     | 331                 | 5,015,649                              | 209.905                                       | 33,874                        |
| 1966 | 44,321              | 2,633               | 3,863               |                     | 842                 | 5,242,355                              | 219.393                                       | 39,176                        |
| 1967 | 42,949              | 2,610               | 3,152               |                     | 1,910               | 5,137,019                              | 214.984                                       | 48,118                        |
| 1968 | 43,477              | 2,694               | 2,576               |                     | 2,116               | 5,161,577                              | 216.012                                       | 55,264                        |
| 1969 | 42,001              | 2,765               | 1,679               |                     | 2,480               | 4,964,909                              | 207.781                                       | 64,002                        |
| 1970 | 41,300              | 2,725               | 3,176               |                     | 3,965               | 5,192,326                              | 217.299                                       | 70,222                        |

*(segue)*

*(segue)*

|      | Hydro               | Geo                 | Nuclear             | Aeolic<br>Photov.   | Import              | Total<br>(without<br>thermoel.)<br>TOE | Total<br>(without<br>thermoel.)<br>Petajoules | Thermo<br>KWh 10 <sup>6</sup> |
|------|---------------------|---------------------|---------------------|---------------------|---------------------|--|---|-------------------------------|
|      | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> | KWh 10 <sup>6</sup> |  |   |                               |
| 1971 | 40,019              | 2,664               | 3,365               |                     | 1,661               | 4,841,509                              | 202.617                                       | 78.812                        |
| 1972 | 42,715              | 2,582               | 3,626               |                     | 200                 | 4,985,002                              | 208.622                                       | 86.338                        |
| 1973 | 39,125              | 2,480               | 3,142               |                     | 879                 | 4,630,126                              | 193.771                                       | 100.771                       |
| 1974 | 39,346              | 2,502               | 3,410               |                     | 2,293               | 4,825,475                              | 201.946                                       | 103.647                       |
| 1975 | 42,576              | 2,483               | 3,800               |                     | 2,581               | 5,220,131                              | 218.462                                       | 98.474                        |
| 1976 | 40,943              | 2,523               | 3,807               |                     | 1,088               | 4,907,674                              | 205.386                                       | 116.277                       |
| 1977 | 52,726              | 2,501               | 3,385               |                     | 2,777               | 6,229,756                              | 260.715                                       | 107.933                       |
| 1978 | 47,413              | 2,494               | 4,428               |                     | 2,126               | 5,729,662                              | 239.786                                       | 120.706                       |
| 1979 | 48,212              | 2,500               | 2,628               |                     | 5,393               | 5,960,225                              | 249.435                                       | 127.924                       |
| 1980 | 47,511              | 2,672               | 2,208               |                     | 6,083               | 5,933,942                              | 248.335                                       | 133.350                       |
| 1981 | 45,736              | 2,664               | 2,707               |                     | 9,632               | 6,163,794                              | 257.955                                       | 130.549                       |
| 1982 | 44,080              | 2,737               | 6,804               |                     | 7,151               | 6,167,143                              | 258.095                                       | 130.823                       |
| 1983 | 44,216              | 2,714               | 5,783               |                     | 11,082              | 6,473,917                              | 270.933                                       | 130.167                       |
| 1984 | 45,434              | 2,840               | 6,887               |                     | 20,890              | 7,717,655                              | 322.984                                       | 127.508                       |
| 1985 | 44,595              | 2,681               | 7,024               |                     | 23,669              | 7,912,294                              | 331.130                                       | 131.440                       |
| 1986 | 44,531              | 2,760               | 8,758               |                     | 22,114              | 7,931,981                              | 331.953                                       | 136.281                       |
| 1987 | 42,585              | 2,986               | 174                 |                     | 23,146              | 6,991,059                              | 292.576                                       | 155.627                       |
| 1988 | 43,547              | 3,082               |                     |                     | 31,256              | 7,903,770                              | 330.773                                       | 156.932                       |
| 1989 | 37,484              | 3,155               |                     |                     | 33,729              | 7,546,865                              | 315.836                                       | 170.111                       |
| 1990 | 35,079              | 3,222               |                     |                     | 34,655              | 7,403,575                              | 309.840                                       | 178.590                       |
| 1991 | 45,606              | 3,182               |                     |                     | 35,082              | 8,511,128                              | 356.191                                       | 173.253                       |
| 1992 | 45,786              | 3,459               |                     | 3                   | 35,300              | 8,579,931                              | 359.070                                       | 176.995                       |
| 1993 | 44,482              | 3,667               |                     | 5                   | 39,432              | 8,888,227                              | 371.972                                       | 174.634                       |
| 1994 | 47,731              | 3,417               |                     | 8                   | 37,599              | 9,006,857                              | 376.937                                       | 180.648                       |
| 1995 | 41,907              | 3,436               |                     | 14                  | 37,427              | 8,400,920                              | 351.579                                       | 196.123                       |
| 1996 | 47,072              | 3,762               |                     | 39                  | 37,389              | 8,956,828                              | 374.843                                       | 193.551                       |
| 1997 | 46,552              | 3,905               |                     | 124                 | 38,832              | 9,073,631                              | 379.731                                       | 200.881                       |
| 1998 | 47,365              | 4,214               |                     | 237                 | 40,732              | 9,391,771                              | 393.046                                       | 207.970                       |
| 1999 | 51,777              | 4,403               |                     | 409                 | 42,010              | 10,005,827                             | 418.744                                       | 209.068                       |
| 2000 | 50,900              | 4,705               |                     | 569                 | 44,347              | 10,200,871                             | 426.906                                       | 220.455                       |

Note: data on thermo-electricity are not included in our total of primary energy in Appendix I.



### III

## Product and Energy Intensity





### Note on the GDP series

The standard reconstruction of Italian National Accounting was published in 1957 by the Italian National Institute of Statistics (ISTAT).<sup>1</sup> It covered quite a long period, from Italy's unification in 1861 to 1956. It has long been the foundation of all discussions on the beginnings and evolution of Italian economy. Still, lack of information on the criteria used by the statisticians who collated these data has hindered historians from exploiting their full potential. Since its publication, this statistical basis of Italian national accounting has undergone several revisions. These revisions, however, only introduced marginal improvements.<sup>2</sup> At the end of the 1980s, a completely new reconstruction of Italian national accounting, based on direct information, was promoted by the Banca d'Italia.<sup>3</sup> The scholars involved in this still ongoing work include Giovanni Federico for agriculture, Stefano Fenoaltea for the industry, and Vera Zamagni for services. Other collaborators are statisticians like Guido Rey and Ornello Vitali, and historians like Carlo Bardini and Patrizia Battilani. At the moment, 4 volumes have been published, devoted, respectively, to 4 benchmark years: 1891, 1911, 1938 and 1951.<sup>4</sup> The revision for these 4 years has highlighted some weaknesses in ISTAT's reconstruction. Compared to the ISTAT series, the new results for the 4 benchmark years are higher, respectively, by 1.9, 10.7, 1.1 and 15.4 percent. Some important changes have been introduced in the relative weight of the 3 sectors. Other major results of this revision have been presented in a congress specifically devoted to this work in progress held at Brescia in 2003. The proceedings have been published in an issue of the *Rivista di Storia Economica*,<sup>5</sup> and in essays by Federico and Fenoaltea in a volume of the *Storia economica d'Italia*, edited by P. Ciocca and G. Toniolo.<sup>6</sup> In the latter publication, S. Fenoaltea provides a complete revision of industrial production in the 1861-1913 period,<sup>7</sup> and G. Federico does the same for agriculture, for the same period, basing his time series on the main 10 agricultural products.<sup>8</sup> Neither Fenoaltea nor Federico's time series are final, although those for the industry are in a more advanced state of completion than those for agriculture. As to the tertiary sector, all we have is the reconstruction for the 4 benchmark years. Still, the two series for agriculture and industry provide enough information to allow us to reconsider Italian economic growth in its most controversial period, i.e., the beginning of Modern Growth in the second half of the 19<sup>th</sup> century. The new provisional results show a more continuous

<sup>1</sup> ISTAT (1957). On the evolution of national statistics in Italy see the fine essay by Carreras (1999).

<sup>2</sup> See the very useful history of national accounting in Italy by Carreras (1999).

<sup>3</sup> On this revision in progress and its first results see now especially Toniolo (2003) and Rey (2003).

<sup>4</sup> *I conti economici*.

<sup>5</sup> 3 (2003).

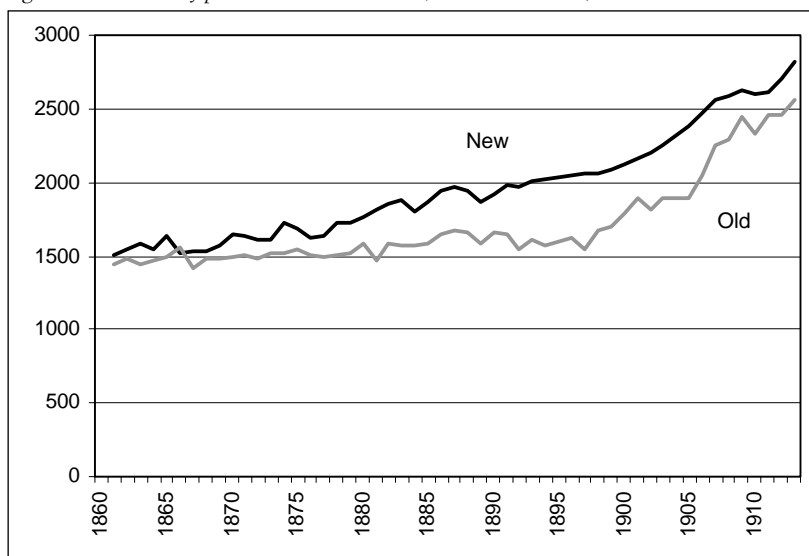
<sup>6</sup> Vol. 3 (2003).

<sup>7</sup> Fenoaltea (2003 b).

<sup>8</sup> Federico (2003 b).

upward trend from the Unification onward, particularly during the 1880s, precisely the years when the ISTAT series indicate a period of crisis (Figure). For the later period, the ongoing revision shows a slower growth between the two wars. In the ISTAT series, per capita product was almost stable until 1896. The series supported the view of Italian Modern Growth as a sudden take off from pre-industrial stability. The new emerging profile indicates, on the contrary, a gradual rise. This rising trend can actually be traced backward at least as early as 1820, as the recent GDP reconstruction for the previous period shows.<sup>9</sup>

Figure. *Two series of per c. GDP 1861-1913 (1990 int. Dollars)*



Today, we can no longer use the standard ISTAT series, particularly for the 1861-1913 period, because of their evident weakness. On the other hand, we cannot yet rely on the revised series, since they are still incomplete. We know, however, how research on energy consumption needs reliable data on the GDP. This is the reason for the new, open reconstruction I provide here, which incorporates the most recent results. Here is the documentary basis of my series, within present borders and at 1911 prices (at factor cost):

Recently S. Fenoaltea (2005a and 2005b) tried to build a comprehensive series covering the period 1861-1913 and to fill the still existing gap of the tertiary sector. I adopted the series by Fenoaltea with some changes: current borders instead of 1911 borders and at factor cost. The rest of the series is that of Maddison (2003), controlled on: Maddison (1991) Ercolani (1969), Rossi, Sorgato, Toniolo (1993), ISTAT (1976 and 1986).

<sup>9</sup> Malanima (2003).

The distribution in three sectors is the standard one:

**First sector:** Agriculture, Forestry and Fishing;

**Second sector:** Mining, Manufacturing, Construction, Electricity together with Gas and Water;

**Third sector:** Transport and Communication, Trade, Finance and Insurance, Miscellaneous services, Housing, Public Administration.

The series is also presented in International 1990 Geary-Khamis dollars to allow comparisons with other countries.

Here as elsewhere, I have estimated per capita GDP by dividing the GDP by the present population, rather than the official, resident population. What we are interested in is the availability of goods and services produced in Italy by the population actually living there.

**1. Gross Domestic Product 1861-2003** (1911 prices; thousands lire; present territory)

|      | Agriculture | Industry  | Services  | GDP<br>Total | Agriculture<br>% | Industry<br>% | Services<br>% |
|------|-------------|-----------|-----------|--------------|------------------|---------------|---------------|
| 1861 | 4,618,152   | 1,613,472 | 3,324,699 | 9,556,323    | 48.3             | 16.9          | 34.8          |
| 1862 | 4,753,980   | 1,639,197 | 3,382,323 | 9,775,500    | 48.6             | 16.8          | 34.6          |
| 1863 | 4,906,272   | 1,665,951 | 3,452,295 | 10,024,518   | 48.9             | 16.6          | 34.4          |
| 1864 | 4,794,111   | 1,674,183 | 3,467,730 | 9,936,024    | 48.2             | 16.8          | 34.9          |
| 1865 | 5,122,362   | 1,713,285 | 3,554,166 | 10,389,813   | 49.3             | 16.5          | 34.2          |
| 1866 | 5,274,654   | 1,680,357 | 3,620,022 | 10,575,033   | 49.9             | 15.9          | 34.2          |
| 1867 | 5,066,796   | 1,660,806 | 3,632,370 | 10,359,972   | 48.9             | 16.0          | 35.1          |
| 1868 | 5,154,261   | 1,647,429 | 3,694,110 | 10,495,800   | 49.1             | 15.7          | 35.2          |
| 1869 | 5,306,553   | 1,678,299 | 3,773,343 | 10,758,195   | 49.3             | 15.6          | 35.1          |
| 1870 | 5,634,804   | 1,724,604 | 3,878,301 | 11,237,709   | 50.1             | 15.3          | 34.5          |
| 1871 | 5,482,512   | 1,756,503 | 3,925,635 | 11,164,650   | 49.1             | 15.7          | 35.2          |
| 1872 | 5,338,452   | 1,816,185 | 3,977,085 | 11,131,722   | 48.0             | 16.3          | 35.7          |
| 1873 | 5,258,190   | 1,893,360 | 4,044,999 | 11,196,549   | 47.0             | 16.9          | 36.1          |
| 1874 | 5,746,965   | 1,925,259 | 4,128,348 | 11,800,572   | 48.7             | 16.3          | 35.0          |
| 1875 | 5,642,007   | 1,886,157 | 4,163,334 | 11,691,498   | 48.3             | 16.1          | 35.6          |
| 1876 | 5,370,351   | 1,904,679 | 4,199,349 | 11,474,379   | 46.8             | 16.6          | 36.6          |
| 1877 | 5,450,613   | 1,931,433 | 4,264,176 | 11,646,222   | 46.8             | 16.6          | 36.6          |
| 1878 | 5,834,430   | 1,968,477 | 4,352,670 | 12,155,577   | 48.0             | 16.2          | 35.8          |
| 1879 | 5,827,227   | 1,979,796 | 4,404,120 | 12,211,143   | 47.7             | 16.2          | 36.1          |
| 1880 | 5,963,055   | 2,062,116 | 4,516,281 | 12,541,452   | 47.5             | 16.4          | 36.0          |
| 1881 | 6,083,448   | 2,171,190 | 4,615,065 | 12,869,703   | 47.3             | 16.9          | 35.9          |
| 1882 | 6,194,580   | 2,273,061 | 4,701,501 | 13,169,142   | 47.0             | 17.3          | 35.7          |
| 1883 | 6,251,175   | 2,361,555 | 4,792,053 | 13,404,783   | 46.6             | 17.6          | 35.7          |
| 1884 | 5,891,025   | 2,434,614 | 4,824,981 | 13,150,620   | 44.8             | 18.5          | 36.7          |
| 1885 | 6,066,984   | 2,524,137 | 4,890,837 | 13,481,958   | 45.0             | 18.7          | 36.3          |
| 1886 | 6,395,235   | 2,622,921 | 5,000,940 | 14,019,096   | 45.6             | 18.7          | 35.7          |
| 1887 | 6,475,497   | 2,698,038 | 5,053,419 | 14,226,954   | 45.5             | 19.0          | 35.5          |
| 1888 | 6,363,336   | 2,721,705 | 5,128,536 | 14,213,577   | 44.8             | 19.1          | 36.1          |
| 1889 | 6,075,216   | 2,679,516 | 5,139,855 | 13,894,587   | 43.7             | 19.3          | 37.0          |
| 1890 | 6,331,437   | 2,685,690 | 5,208,798 | 14,225,925   | 44.5             | 18.9          | 36.6          |
| 1891 | 6,666,891   | 2,654,820 | 5,261,277 | 14,582,988   | 45.7             | 18.2          | 36.1          |
| 1892 | 6,643,224   | 2,614,689 | 5,282,886 | 14,540,799   | 45.7             | 18.0          | 36.3          |
| 1893 | 6,851,082   | 2,645,559 | 5,369,322 | 14,865,963   | 46.1             | 17.8          | 36.1          |
| 1894 | 6,851,082   | 2,704,212 | 5,416,656 | 14,971,950   | 45.8             | 18.1          | 36.2          |
| 1895 | 6,971,475   | 2,710,386 | 5,465,019 | 15,146,880   | 46.0             | 17.9          | 36.1          |
| 1896 | 7,035,273   | 2,747,430 | 5,537,049 | 15,319,752   | 45.9             | 17.9          | 36.1          |
| 1897 | 7,019,838   | 2,819,460 | 5,630,688 | 15,469,986   | 45.4             | 18.2          | 36.4          |
| 1898 | 7,003,374   | 2,904,867 | 5,705,805 | 15,614,046   | 44.9             | 18.6          | 36.5          |
| 1899 | 6,971,475   | 3,037,608 | 5,798,415 | 15,807,498   | 44.1             | 19.2          | 36.7          |
| 1900 | 7,163,898   | 3,094,203 | 5,915,721 | 16,173,822   | 44.3             | 19.1          | 36.6          |
| 1901 | 7,267,827   | 3,178,581 | 6,028,911 | 16,475,319   | 44.1             | 19.3          | 36.6          |
| 1902 | 7,355,292   | 3,298,974 | 6,174,000 | 16,828,266   | 43.7             | 19.6          | 36.7          |
| 1903 | 7,483,917   | 3,433,773 | 6,318,060 | 17,235,750   | 43.4             | 19.9          | 36.7          |
| 1904 | 7,700,007   | 3,572,688 | 6,468,294 | 17,740,989   | 43.4             | 20.1          | 36.5          |
| 1905 | 7,812,168   | 3,784,662 | 6,556,788 | 18,153,618   | 43.0             | 20.8          | 36.1          |
| 1906 | 7,939,764   | 4,060,434 | 6,768,762 | 18,768,960   | 42.3             | 21.6          | 36.1          |
| 1907 | 8,204,217   | 4,309,452 | 6,926,199 | 19,439,868   | 42.2             | 22.2          | 35.6          |
| 1908 | 8,147,622   | 4,572,876 | 7,119,651 | 19,840,149   | 41.1             | 23.0          | 35.9          |
| 1909 | 8,115,723   | 4,802,343 | 7,321,335 | 20,239,401   | 40.1             | 23.7          | 36.2          |
| 1910 | 7,907,865   | 5,013,288 | 7,503,468 | 20,424,621   | 38.7             | 24.5          | 36.7          |

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|      | Agriculture | Industry   | Services   | GDP<br>Total | Agriculture<br>% | Industry<br>% | Services<br>% |
|------|-------------|------------|------------|--------------|------------------|---------------|---------------|
| 1911 | 8,003,562   | 5,097,666  | 7,738,080  | 20,839,308   | 38.4             | 24.5          | 37.1          |
| 1912 | 8,284,479   | 5,360,061  | 7,982,982  | 21,627,522   | 38.3             | 24.8          | 36.9          |
| 1913 | 8,836,023   | 5,392,989  | 8,275,218  | 22,504,230   | 39.3             | 24.0          | 36.8          |
| 1914 | 8,202,459   | 5,203,793  | 9,827,662  | 23,233,915   | 35.3             | 22.4          | 42.3          |
| 1915 | 7,401,217   | 6,251,284  | 12,355,188 | 26,007,690   | 28.5             | 24.0          | 47.5          |
| 1916 | 7,881,163   | 6,273,107  | 14,888,437 | 29,042,707   | 27.1             | 21.6          | 51.3          |
| 1917 | 7,796,301   | 5,550,960  | 16,991,844 | 30,339,106   | 25.7             | 18.3          | 56.0          |
| 1918 | 7,941,209   | 5,300,279  | 17,423,038 | 30,664,525   | 25.9             | 17.3          | 56.8          |
| 1919 | 7,556,333   | 5,427,747  | 12,764,046 | 25,748,126   | 29.3             | 21.1          | 49.6          |
| 1920 | 8,149,451   | 5,457,227  | 9,953,712  | 23,560,391   | 34.6             | 23.2          | 42.2          |
| 1921 | 7,981,608   | 5,045,975  | 10,200,148 | 23,227,731   | 34.4             | 21.7          | 43.9          |
| 1922 | 8,452,582   | 5,703,443  | 10,240,130 | 24,396,155   | 34.6             | 23.4          | 42.0          |
| 1923 | 9,247,471   | 6,280,656  | 10,272,996 | 25,801,122   | 35.8             | 24.3          | 39.8          |
| 1924 | 8,798,380   | 6,927,651  | 10,289,131 | 26,015,162   | 33.8             | 26.6          | 39.6          |
| 1925 | 9,372,801   | 7,866,241  | 10,504,731 | 27,743,773   | 33.8             | 28.4          | 37.9          |
| 1926 | 9,821,110   | 8,358,398  | 9,847,926  | 28,027,433   | 35.0             | 29.8          | 35.1          |
| 1927 | 8,495,206   | 7,768,359  | 11,178,551 | 27,442,116   | 31.0             | 28.3          | 40.7          |
| 1928 | 9,239,682   | 8,523,880  | 11,686,079 | 29,449,642   | 31.4             | 28.9          | 39.7          |
| 1929 | 10,439,568  | 9,620,669  | 10,378,019 | 30,438,256   | 34.3             | 31.6          | 34.1          |
| 1930 | 8,533,720   | 8,621,064  | 11,819,012 | 28,973,795   | 29.5             | 29.8          | 40.8          |
| 1931 | 8,862,761   | 7,874,551  | 12,070,066 | 28,807,377   | 30.8             | 27.3          | 41.9          |
| 1932 | 9,707,534   | 7,847,542  | 12,207,678 | 29,762,755   | 32.6             | 26.4          | 41.0          |
| 1933 | 8,747,113   | 8,365,286  | 12,470,151 | 29,582,550   | 29.6             | 28.3          | 42.2          |
| 1934 | 8,255,984   | 8,387,204  | 13,064,281 | 29,707,470   | 27.8             | 28.2          | 44.0          |
| 1935 | 8,997,816   | 9,176,966  | 14,411,898 | 32,586,680   | 27.6             | 28.2          | 44.2          |
| 1936 | 9,138,537   | 10,117,665 | 13,381,428 | 32,637,630   | 28.0             | 31.0          | 41.0          |
| 1937 | 9,757,382   | 10,802,816 | 14,287,595 | 34,847,793   | 28.0             | 31.0          | 41.0          |
| 1938 | 9,829,882   | 10,883,084 | 14,393,756 | 35,106,722   | 28.0             | 31.0          | 41.0          |
| 1939 | 10,323,403  | 11,955,406 | 15,412,029 | 37,690,838   | 27.4             | 31.7          | 40.9          |
| 1940 | 9,866,082   | 12,304,706 | 15,704,772 | 37,875,559   | 26.0             | 32.5          | 41.5          |
| 1941 | 9,676,388   | 11,861,719 | 15,809,617 | 37,347,724   | 25.9             | 31.8          | 42.3          |
| 1942 | 9,150,310   | 11,139,507 | 16,556,643 | 36,846,460   | 24.8             | 30.2          | 44.9          |
| 1943 | 9,297,419   | 10,175,921 | 17,523,547 | 36,996,888   | 25.1             | 27.5          | 47.4          |
| 1944 | 8,242,904   | 5,783,364  | 13,098,668 | 27,124,936   | 30.4             | 21.3          | 48.3          |
| 1945 | 7,367,539   | 4,153,592  | 9,733,494  | 21,254,625   | 34.7             | 19.5          | 45.8          |
| 1946 | 8,154,965   | 8,280,001  | 11,492,065 | 27,927,031   | 29.2             | 29.6          | 41.2          |
| 1947 | 8,732,759   | 10,486,027 | 13,612,464 | 32,831,249   | 26.6             | 31.9          | 41.5          |
| 1948 | 9,087,579   | 11,117,890 | 14,494,366 | 34,699,835   | 26.2             | 32.0          | 41.8          |
| 1949 | 9,299,124   | 13,390,739 | 14,506,634 | 37,196,497   | 25.0             | 36.0          | 39.0          |
| 1950 | 10,045,224  | 14,465,123 | 15,670,550 | 40,180,898   | 25.0             | 36.0          | 39.0          |
| 1951 | 10,826,487  | 15,590,142 | 16,889,320 | 43,305,950   | 25.0             | 36.0          | 39.0          |
| 1952 | 9,995,544   | 16,736,724 | 19,758,633 | 46,490,901   | 21.5             | 36.0          | 42.5          |
| 1953 | 11,156,316  | 17,630,963 | 21,017,702 | 49,804,980   | 22.4             | 35.4          | 42.2          |
| 1954 | 10,831,422  | 18,941,907 | 22,552,381 | 52,325,710   | 20.7             | 36.2          | 43.1          |
| 1955 | 11,165,867  | 19,899,564 | 24,211,136 | 55,276,567   | 20.2             | 36.0          | 43.8          |
| 1956 | 11,153,651  | 20,796,912 | 26,141,370 | 58,091,934   | 19.2             | 35.8          | 45.0          |
| 1957 | 10,920,587  | 22,146,218 | 27,942,060 | 61,008,864   | 17.9             | 36.3          | 45.8          |
| 1958 | 11,892,327  | 23,077,542 | 29,312,979 | 64,282,848   | 18.5             | 35.9          | 45.6          |
| 1959 | 11,324,394  | 24,671,002 | 31,411,712 | 67,407,108   | 16.8             | 36.6          | 46.6          |
| 1960 | 10,518,361  | 26,935,533 | 33,616,114 | 71,070,008   | 14.8             | 37.9          | 47.3          |

(segue)

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(segue)

|      | Agriculture | Industry   | Services    | GDP<br>Total | Agriculture<br>% | Industry<br>% | Services<br>% |
|------|-------------|------------|-------------|--------------|------------------|---------------|---------------|
| 1961 | 11,835,752  | 29,435,670 | 35,584,113  | 76,855,535   | 15.4             | 38.3          | 46.3          |
| 1962 | 12,451,838  | 31,876,704 | 38,683,709  | 83,012,250   | 15.0             | 38.4          | 46.6          |
| 1963 | 13,217,730  | 36,990,627 | 44,883,228  | 95,091,585   | 13.9             | 38.9          | 47.2          |
| 1964 | 12,414,630  | 35,576,255 | 44,655,611  | 92,646,496   | 13.4             | 38.4          | 48.2          |
| 1965 | 12,604,081  | 35,537,821 | 46,625,621  | 94,767,523   | 13.3             | 37.5          | 49.2          |
| 1966 | 12,676,146  | 37,429,564 | 49,706,461  | 99,812,172   | 12.7             | 37.5          | 49.8          |
| 1967 | 13,608,451  | 40,611,046 | 52,933,659  | 107,153,157  | 12.7             | 37.9          | 49.4          |
| 1968 | 12,903,621  | 44,872,052 | 58,473,166  | 116,248,840  | 11.1             | 38.6          | 50.3          |
| 1969 | 13,643,958  | 48,184,069 | 61,090,516  | 122,918,543  | 11.1             | 39.2          | 49.7          |
| 1970 | 11,953,503  | 51,085,499 | 62,787,350  | 125,826,352  | 9.5              | 40.6          | 49.9          |
| 1971 | 11,540,880  | 50,266,945 | 66,424,178  | 128,232,003  | 9.0              | 39.2          | 51.8          |
| 1972 | 10,695,063  | 51,494,750 | 69,848,006  | 132,037,819  | 8.1              | 39.0          | 52.9          |
| 1973 | 12,510,800  | 56,931,167 | 71,128,816  | 140,570,782  | 8.9              | 40.5          | 50.6          |
| 1974 | 12,086,280  | 62,789,698 | 72,517,680  | 147,393,658  | 8.2              | 42.6          | 49.2          |
| 1975 | 12,411,763  | 59,316,679 | 72,594,379  | 144,322,821  | 8.6              | 41.1          | 50.3          |
| 1976 | 12,305,317  | 65,371,995 | 76,139,147  | 153,816,459  | 8.0              | 42.5          | 49.5          |
| 1977 | 12,656,078  | 66,286,208 | 79,258,688  | 158,200,974  | 8.0              | 41.9          | 50.1          |
| 1978 | 13,128,232  | 68,102,702 | 82,871,963  | 164,102,897  | 8.0              | 41.5          | 50.5          |
| 1979 | 13,534,020  | 72,354,955 | 87,624,106  | 173,513,082  | 7.8              | 41.7          | 50.5          |
| 1980 | 12,927,058  | 75,048,756 | 91,566,664  | 179,542,479  | 7.2              | 41.8          | 51.0          |
| 1981 | 12,101,389  | 72,247,099 | 96,269,259  | 180,617,748  | 6.7              | 40.0          | 53.3          |
| 1982 | 11,833,105  | 71,908,871 | 98,305,798  | 182,047,775  | 6.5              | 39.5          | 54.0          |
| 1983 | 12,745,869  | 71,302,975 | 100,673,889 | 184,722,733  | 6.9              | 38.6          | 54.5          |
| 1984 | 11,947,179  | 72,441,627 | 105,248,960 | 189,637,766  | 6.3              | 38.2          | 55.5          |
| 1985 | 11,332,133  | 73,268,100 | 110,781,368 | 195,381,601  | 5.8              | 37.5          | 56.7          |
| 1986 | 9,893,858   | 68,583,954 | 125,019,334 | 203,497,146  | 4.9              | 33.7          | 61.4          |
| 1987 | 10,020,688  | 68,973,485 | 124,894,170 | 203,888,343  | 4.9              | 33.8          | 61.3          |
| 1988 | 9,987,697   | 75,345,781 | 133,418,681 | 218,752,159  | 4.6              | 34.4          | 61.0          |
| 1989 | 10,061,124  | 77,672,440 | 137,632,774 | 225,366,337  | 4.5              | 34.5          | 61.1          |
| 1990 | 9,636,315   | 79,269,475 | 142,199,795 | 231,105,585  | 4.2              | 34.3          | 61.5          |
| 1991 | 10,361,401  | 78,178,403 | 141,754,596 | 230,294,400  | 4.5              | 33.9          | 61.6          |
| 1992 | 10,487,159  | 78,501,396 | 143,498,992 | 232,487,547  | 4.5              | 33.8          | 61.7          |
| 1993 | 10,267,435  | 77,639,768 | 142,489,291 | 230,396,494  | 4.5              | 33.7          | 61.8          |
| 1994 | 10,581,123  | 76,403,024 | 148,408,454 | 235,392,602  | 4.5              | 32.5          | 63.0          |
| 1995 | 10,741,757  | 79,520,203 | 151,607,662 | 241,869,622  | 4.4              | 32.9          | 62.7          |
| 1996 | 10,802,214  | 81,735,107 | 152,426,913 | 244,964,234  | 4.4              | 33.4          | 62.2          |
| 1997 | 11,007,908  | 82,022,697 | 156,732,187 | 249,762,791  | 4.4              | 32.8          | 62.8          |
| 1998 | 11,129,832  | 83,425,972 | 159,720,771 | 254,276,574  | 4.4              | 32.8          | 62.8          |
| 1999 | 11,756,338  | 84,544,692 | 162,148,561 | 258,449,591  | 4.5              | 32.7          | 62.7          |
| 2000 | 11,453,352  | 85,093,051 | 169,392,947 | 265,939,350  | 4.3              | 32.0          | 63.7          |

**2. Per capita Product 1861-2000** (1911 and 1951 prices; lire and 1990 International PPP \$)

|      | <b>GDP</b>       | <b>GDP</b>      | <b>Per capita</b> | <b>Per capita</b>   | <b>Per capita</b> |
|------|------------------|-----------------|-------------------|---------------------|-------------------|
|      | <b>1911 lire</b> | <b>Index</b>    | <b>GDP</b>        | <b>GDP</b>          | <b>GDP</b>        |
|      | <b>000</b>       | <b>1911=100</b> | <b>1911 lire</b>  | <b>1990</b>         | <b>Index</b>      |
|      |                  |                 |                   | <b>Int. dollars</b> | <b>1911=100</b>   |
| 1861 | 9,556,323        | 45.9            | 371               | 1,660               | 63.9              |
| 1862 | 9,775,500        | 46.9            | 377               | 1,687               | 64.9              |
| 1863 | 10,024,518       | 48.1            | 384               | 1,718               | 66.1              |
| 1864 | 9,936,024        | 47.7            | 378               | 1,691               | 65.1              |
| 1865 | 10,389,813       | 49.9            | 393               | 1,757               | 67.6              |
| 1866 | 10,575,033       | 50.7            | 397               | 1,776               | 68.4              |
| 1867 | 10,359,972       | 49.7            | 386               | 1,728               | 66.5              |
| 1868 | 10,495,800       | 50.4            | 388               | 1,738               | 66.9              |
| 1869 | 10,758,195       | 51.6            | 395               | 1,770               | 68.1              |
| 1870 | 11,237,709       | 53.9            | 410               | 1,836               | 70.7              |
| 1871 | 11,164,650       | 53.6            | 405               | 1,812               | 69.8              |
| 1872 | 11,131,722       | 53.4            | 401               | 1,795               | 69.1              |
| 1873 | 11,196,549       | 53.7            | 402               | 1,797               | 69.2              |
| 1874 | 11,800,572       | 56.6            | 422               | 1,887               | 72.7              |
| 1875 | 11,691,498       | 56.1            | 414               | 1,852               | 71.3              |
| 1876 | 11,474,379       | 55.1            | 404               | 1,806               | 69.5              |
| 1877 | 11,646,222       | 55.9            | 407               | 1,822               | 70.2              |
| 1878 | 12,155,577       | 58.3            | 423               | 1,891               | 72.8              |
| 1879 | 12,211,143       | 58.6            | 422               | 1,888               | 72.7              |
| 1880 | 12,541,452       | 60.2            | 431               | 1,928               | 74.2              |
| 1881 | 12,869,703       | 61.8            | 440               | 1,967               | 75.7              |
| 1882 | 13,169,142       | 63.2            | 447               | 1,998               | 76.9              |
| 1883 | 13,404,783       | 64.3            | 451               | 2,019               | 77.7              |
| 1884 | 13,150,620       | 63.1            | 440               | 1,967               | 75.7              |
| 1885 | 13,481,958       | 64.7            | 447               | 2,002               | 77.1              |
| 1886 | 14,019,096       | 67.3            | 462               | 2,067               | 79.6              |
| 1887 | 14,226,954       | 68.3            | 465               | 2,083               | 80.2              |
| 1888 | 14,213,577       | 68.2            | 462               | 2,067               | 79.6              |
| 1889 | 13,894,587       | 66.7            | 448               | 2,006               | 77.2              |
| 1890 | 14,225,925       | 68.3            | 456               | 2,040               | 78.5              |
| 1891 | 14,582,988       | 70.0            | 464               | 2,077               | 80.0              |
| 1892 | 14,540,799       | 69.8            | 460               | 2,057               | 79.2              |
| 1893 | 14,865,963       | 71.3            | 467               | 2,089               | 80.4              |
| 1894 | 14,971,950       | 71.8            | 467               | 2,090               | 80.4              |
| 1895 | 15,146,880       | 72.7            | 469               | 2,100               | 80.8              |
| 1896 | 15,319,752       | 73.5            | 471               | 2,110               | 81.2              |
| 1897 | 15,469,986       | 74.2            | 473               | 2,117               | 81.5              |
| 1898 | 15,614,046       | 74.9            | 474               | 2,122               | 81.7              |
| 1899 | 15,807,498       | 75.9            | 477               | 2,135               | 82.2              |
| 1900 | 16,173,822       | 77.6            | 485               | 2,171               | 83.6              |
| 1901 | 16,475,319       | 79.1            | 492               | 2,200               | 84.7              |
| 1902 | 16,828,266       | 80.8            | 499               | 2,235               | 86.0              |
| 1903 | 17,235,750       | 82.7            | 510               | 2,281               | 87.8              |
| 1904 | 17,740,989       | 85.1            | 521               | 2,330               | 89.7              |
| 1905 | 18,153,618       | 87.1            | 531               | 2,376               | 91.5              |

*(segue)*

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|      | <b>GDP</b>       | <b>GDP</b>      | <b>Per capita</b> | <b>Per capita</b>   | <b>Per capita</b> |
|------|------------------|-----------------|-------------------|---------------------|-------------------|
|      | <b>1911 lire</b> | <b>Index</b>    | <b>GDP</b>        | <b>GDP</b>          | <b>GDP</b>        |
|      | <b>000</b>       | <b>1911=100</b> | <b>1911 lire</b>  | <b>1990</b>         | <b>Index</b>      |
|      |                  |                 |                   | <b>Int. dollars</b> | <b>1911=100</b>   |
| 1906 | 18,768,960       | 90.1            | 546               | 2,445               | 94.1              |
| 1907 | 19,439,868       | 93.3            | 562               | 2,515               | 96.8              |
| 1908 | 19,840,149       | 95.2            | 568               | 2,542               | 97.9              |
| 1909 | 20,239,401       | 97.1            | 575               | 2,573               | 99.1              |
| 1910 | 20,424,621       | 98.0            | 574               | 2,570               | 99.0              |
| 1911 | 20,839,308       | 100.0           | 580               | 2,597               | 100.0             |
| 1912 | 21,627,522       | 103.8           | 598               | 2,675               | 103.0             |
| 1913 | 22,504,230       | 108.0           | 620               | 2,776               | 106.9             |
| 1914 | 23,233,915       | 111.5           | 624               | 2,792               | 107.5             |
| 1915 | 26,007,690       | 124.8           | 689               | 3,085               | 118.8             |
| 1916 | 29,042,707       | 139.4           | 770               | 3,446               | 132.7             |
| 1917 | 30,339,106       | 145.6           | 810               | 3,624               | 139.5             |
| 1918 | 30,664,525       | 147.1           | 832               | 3,724               | 143.4             |
| 1919 | 25,748,126       | 123.6           | 698               | 3,123               | 120.3             |
| 1920 | 23,560,391       | 113.1           | 635               | 2,840               | 109.4             |
| 1921 | 23,227,731       | 111.5           | 620               | 2,775               | 106.9             |
| 1922 | 24,396,155       | 117.1           | 645               | 2,889               | 111.2             |
| 1923 | 25,801,122       | 123.8           | 678               | 3,033               | 116.8             |
| 1924 | 26,015,162       | 124.8           | 678               | 3,036               | 116.9             |
| 1925 | 27,743,773       | 133.1           | 717               | 3,207               | 123.5             |
| 1926 | 28,027,433       | 134.5           | 718               | 3,212               | 123.7             |
| 1927 | 27,442,116       | 131.7           | 696               | 3,116               | 120.0             |
| 1928 | 29,449,642       | 141.3           | 740               | 3,311               | 127.5             |
| 1929 | 30,438,256       | 146.1           | 759               | 3,396               | 130.7             |
| 1930 | 28,973,795       | 139.0           | 716               | 3,204               | 123.3             |
| 1931 | 28,807,377       | 138.2           | 706               | 3,159               | 121.6             |
| 1932 | 29,762,755       | 142.8           | 723               | 3,237               | 124.6             |
| 1933 | 29,582,550       | 142.0           | 713               | 3,190               | 122.8             |
| 1934 | 29,707,470       | 142.6           | 710               | 3,177               | 122.3             |
| 1935 | 32,586,680       | 156.4           | 772               | 3,456               | 133.1             |
| 1936 | 32,637,630       | 156.6           | 768               | 3,436               | 132.3             |
| 1937 | 34,847,793       | 167.2           | 814               | 3,644               | 140.3             |
| 1938 | 35,106,722       | 168.5           | 814               | 3,641               | 140.2             |
| 1939 | 37,690,838       | 180.9           | 864               | 3,866               | 148.8             |
| 1940 | 37,875,559       | 181.8           | 860               | 3,848               | 148.2             |
| 1941 | 37,347,724       | 179.2           | 842               | 3,768               | 145.1             |
| 1942 | 36,846,460       | 176.8           | 827               | 3,699               | 142.4             |
| 1943 | 36,996,888       | 177.5           | 827               | 3,699               | 142.4             |
| 1944 | 27,124,936       | 130.2           | 604               | 2,704               | 104.1             |
| 1945 | 21,254,625       | 102.0           | 472               | 2,110               | 81.2              |
| 1946 | 27,927,031       | 134.0           | 614               | 2,747               | 105.8             |
| 1947 | 32,831,249       | 157.5           | 716               | 3,206               | 123.4             |
| 1948 | 34,699,835       | 166.5           | 751               | 3,363               | 129.5             |
| 1949 | 37,196,497       | 178.5           | 801               | 3,585               | 138.0             |
| 1950 | 40,180,898       | 192.8           | 859               | 3,845               | 148.0             |
| 1951 | 43,305,950       | 207.8           | 917               | 4,104               | 158.0             |
| 1952 | 46,490,901       | 223.1           | 981               | 4,388               | 169.0             |
| 1953 | 49,804,980       | 239.0           | 1,045             | 4,677               | 180.1             |
| 1954 | 52,325,710       | 251.1           | 1,091             | 4,884               | 188.1             |
| 1955 | 55,276,567       | 265.3           | 1,147             | 5,134               | 197.7             |

*(segue)*



(segue)

|      | <b>GDP</b>       | <b>GDP</b>      | <b>Per capita</b> | <b>Per capita</b>   | <b>Per capita</b> |
|------|------------------|-----------------|-------------------|---------------------|-------------------|
|      | <b>1911 lire</b> | <b>Index</b>    | <b>GDP</b>        | <b>GDP</b>          | <b>GDP</b>        |
|      | <b>000</b>       | <b>1911=100</b> | <b>1911 lire</b>  | <b>1990</b>         | <b>Index</b>      |
|      |                  |                 |                   | <b>Int. dollars</b> | <b>1911=100</b>   |
| 1956 | 58,091,934       | 278.8           | 1,192             | 5,335               | 205.4             |
| 1957 | 61,008,864       | 292.8           | 1,256             | 5,619               | 216.3             |
| 1958 | 64,282,848       | 308.5           | 1,315             | 5,885               | 226.6             |
| 1959 | 67,407,108       | 323.5           | 1,387             | 6,206               | 238.9             |
| 1960 | 71,070,008       | 341.0           | 1,451             | 6,495               | 250.1             |
| 1961 | 76,855,535       | 368.8           | 1,564             | 6,997               | 269.4             |
| 1962 | 83,012,250       | 398.3           | 1,675             | 7,495               | 288.6             |
| 1963 | 95,091,585       | 456.3           | 1,904             | 8,522               | 328.1             |
| 1964 | 92,646,496       | 444.6           | 1,837             | 8,220               | 316.5             |
| 1965 | 94,767,523       | 454.8           | 1,864             | 8,342               | 321.2             |
| 1966 | 99,812,172       | 479.0           | 1,948             | 8,719               | 335.7             |
| 1967 | 107,153,157      | 514.2           | 2,074             | 9,281               | 357.3             |
| 1968 | 116,248,840      | 557.8           | 2,234             | 9,996               | 384.9             |
| 1969 | 122,918,543      | 589.8           | 2,347             | 10,502              | 404.3             |
| 1970 | 125,826,352      | 603.8           | 2,384             | 10,670              | 410.8             |
| 1971 | 128,232,003      | 615.3           | 2,414             | 10,802              | 415.9             |
| 1972 | 132,037,819      | 633.6           | 2,468             | 11,045              | 425.2             |
| 1973 | 140,570,782      | 674.5           | 2,609             | 11,675              | 449.5             |
| 1974 | 147,393,658      | 707.3           | 2,710             | 12,127              | 466.9             |
| 1975 | 144,322,821      | 692.6           | 2,635             | 11,793              | 454.1             |
| 1976 | 153,816,459      | 738.1           | 2,793             | 12,499              | 481.2             |
| 1977 | 158,200,974      | 759.1           | 2,863             | 12,810              | 493.2             |
| 1978 | 164,102,897      | 787.5           | 2,960             | 13,245              | 509.9             |
| 1979 | 173,513,082      | 832.6           | 3,121             | 13,965              | 537.7             |
| 1980 | 179,542,479      | 861.6           | 3,226             | 14,436              | 555.8             |
| 1981 | 180,617,748      | 866.7           | 3,238             | 14,492              | 558.0             |
| 1982 | 182,047,775      | 873.6           | 3,251             | 14,549              | 560.2             |
| 1983 | 184,722,733      | 886.4           | 3,285             | 14,702              | 566.0             |
| 1984 | 189,637,766      | 910.0           | 3,366             | 15,062              | 579.9             |
| 1985 | 195,381,601      | 937.6           | 3,458             | 15,476              | 595.8             |
| 1986 | 203,497,146      | 976.5           | 3,556             | 15,915              | 612.7             |
| 1987 | 203,888,343      | 978.4           | 3,556             | 15,915              | 612.7             |
| 1988 | 218,752,159      | 1049.7          | 3,808             | 17,042              | 656.1             |
| 1989 | 225,366,337      | 1081.4          | 3,918             | 17,532              | 675.0             |
| 1990 | 231,105,585      | 1109.0          | 4,002             | 17,910              | 689.5             |
| 1991 | 230,294,400      | 1105.1          | 4,058             | 18,158              | 699.1             |
| 1992 | 232,487,547      | 1115.6          | 4,082             | 18,265              | 703.2             |
| 1993 | 230,396,494      | 1105.6          | 4,032             | 18,045              | 694.7             |
| 1994 | 235,392,602      | 1129.6          | 4,110             | 18,394              | 708.2             |
| 1995 | 241,869,622      | 1160.6          | 4,223             | 18,900              | 727.7             |
| 1996 | 244,964,234      | 1175.5          | 4,263             | 19,078              | 734.5             |
| 1997 | 249,762,791      | 1198.5          | 4,339             | 19,417              | 747.6             |
| 1998 | 254,276,574      | 1220.2          | 4,414             | 19,751              | 760.4             |
| 1999 | 258,449,591      | 1240.2          | 4,481             | 20,052              | 772.0             |
| 2000 | 265,939,350      | 1276.1          | 4,598             | 20,574              | 792.1             |

**3. Product and Energy Intensity 1861-2000 (GDP in 1911 prices)**

|      | Energy<br>Consumption<br>(Toe) | GDP<br>1911 lire<br>(000) | Energy<br>Intensity<br>(kcal/lira) | Energy<br>Intensity<br>(kj/lira) | Productivity<br>of energy<br>(lire/toe) |
|------|--------------------------------|---------------------------|------------------------------------|----------------------------------|---|
| 1861 | 11,079,609                     | 9,556,323                 | 11,594                             | 48,542                           | 863                                     |
| 1862 | 10,972,500                     | 9,775,500                 | 11,224                             | 46,995                           | 891                                     |
| 1863 | 11,037,407                     | 10,024,518                | 11,010                             | 46,098                           | 908                                     |
| 1864 | 11,127,085                     | 9,936,024                 | 11,199                             | 46,887                           | 893                                     |
| 1865 | 11,073,636                     | 10,389,813                | 10,658                             | 44,624                           | 938                                     |
| 1866 | 10,960,813                     | 10,575,033                | 10,365                             | 43,395                           | 965                                     |
| 1867 | 10,388,261                     | 10,359,972                | 10,027                             | 41,982                           | 997                                     |
| 1868 | 10,528,321                     | 10,495,800                | 10,031                             | 41,998                           | 997                                     |
| 1869 | 10,740,041                     | 10,758,195                | 9,983                              | 41,797                           | 1,002                                   |
| 1870 | 10,905,885                     | 11,237,709                | 9,705                              | 40,632                           | 1,030                                   |
| 1871 | 10,799,154                     | 11,164,650                | 9,673                              | 40,497                           | 1,034                                   |
| 1872 | 10,868,138                     | 11,131,722                | 9,763                              | 40,877                           | 1,024                                   |
| 1873 | 10,928,809                     | 11,196,549                | 9,761                              | 40,867                           | 1,024                                   |
| 1874 | 11,233,574                     | 11,800,572                | 9,520                              | 39,856                           | 1,050                                   |
| 1875 | 11,566,721                     | 11,691,498                | 9,893                              | 41,421                           | 1,011                                   |
| 1876 | 11,926,334                     | 11,474,379                | 10,394                             | 43,517                           | 962                                     |
| 1877 | 11,620,015                     | 11,646,222                | 9,977                              | 41,774                           | 1,002                                   |
| 1878 | 11,625,137                     | 12,155,577                | 9,564                              | 40,041                           | 1,046                                   |
| 1879 | 12,113,704                     | 12,211,143                | 9,920                              | 41,534                           | 1,008                                   |
| 1880 | 12,347,773                     | 12,541,452                | 9,846                              | 41,221                           | 1,016                                   |
| 1881 | 12,496,583                     | 12,869,703                | 9,710                              | 40,654                           | 1,030                                   |
| 1882 | 12,667,826                     | 13,169,142                | 9,619                              | 40,274                           | 1,040                                   |
| 1883 | 12,971,173                     | 13,404,783                | 9,677                              | 40,514                           | 1,033                                   |
| 1884 | 13,221,693                     | 13,150,620                | 10,054                             | 42,094                           | 995                                     |
| 1885 | 13,552,458                     | 13,481,958                | 10,052                             | 42,087                           | 995                                     |
| 1886 | 13,555,215                     | 14,019,096                | 9,669                              | 40,483                           | 1,034                                   |
| 1887 | 14,137,492                     | 14,226,954                | 9,937                              | 41,605                           | 1,006                                   |
| 1888 | 14,285,312                     | 14,213,577                | 10,050                             | 42,079                           | 995                                     |
| 1889 | 14,318,988                     | 13,894,587                | 10,305                             | 43,147                           | 970                                     |
| 1890 | 14,474,705                     | 14,225,925                | 10,175                             | 42,600                           | 983                                     |
| 1891 | 14,024,054                     | 14,582,988                | 9,617                              | 40,263                           | 1,040                                   |
| 1892 | 14,154,363                     | 14,540,799                | 9,734                              | 40,755                           | 1,027                                   |
| 1893 | 13,958,351                     | 14,865,963                | 9,389                              | 39,312                           | 1,065                                   |
| 1894 | 14,736,964                     | 14,971,950                | 9,843                              | 41,211                           | 1,016                                   |
| 1895 | 14,499,554                     | 15,146,880                | 9,573                              | 40,079                           | 1,045                                   |
| 1896 | 14,357,730                     | 15,319,752                | 9,372                              | 39,239                           | 1,067                                   |
| 1897 | 14,408,155                     | 15,469,986                | 9,314                              | 38,994                           | 1,074                                   |
| 1898 | 14,633,152                     | 15,614,046                | 9,372                              | 39,238                           | 1,067                                   |
| 1899 | 14,922,376                     | 15,807,498                | 9,440                              | 39,524                           | 1,059                                   |
| 1900 | 14,954,633                     | 16,173,822                | 9,246                              | 38,712                           | 1,082                                   |
| 1901 | 15,104,869                     | 16,475,319                | 9,168                              | 38,385                           | 1,091                                   |
| 1902 | 15,404,165                     | 16,828,266                | 9,154                              | 38,325                           | 1,092                                   |
| 1903 | 15,370,814                     | 17,235,750                | 8,918                              | 37,338                           | 1,121                                   |
| 1904 | 15,533,314                     | 17,740,989                | 8,756                              | 36,658                           | 1,142                                   |
| 1905 | 15,912,099                     | 18,153,618                | 8,765                              | 36,698                           | 1,141                                   |
| 1906 | 17,000,979                     | 18,768,960                | 9,058                              | 37,924                           | 1,104                                   |
| 1907 | 17,492,159                     | 19,439,868                | 8,998                              | 37,673                           | 1,111                                   |
| 1908 | 17,765,254                     | 19,840,149                | 8,954                              | 37,489                           | 1,117                                   |
| 1909 | 18,792,804                     | 20,239,401                | 9,285                              | 38,876                           | 1,077                                   |
| 1910 | 19,007,746                     | 20,424,621                | 9,306                              | 38,964                           | 1,075                                   |

*(segue)*

*(segue)*

|      | Energy<br>Consumption<br>(Toe) | GDP<br>1911 lire<br>(000) | Energy<br>Intensity<br>(kcal/lira) | Energy<br>Intensity<br>(kj/lira) | Productivity<br>of energy<br>(lire/toe) |
|------|--------------------------------|---------------------------|------------------------------------|----------------------------------|---|
| 1911 | 19,227,117                     | 20,839,308                | 9,226                              | 38,629                           | 1,084                                   |
| 1912 | 19,750,485                     | 21,627,522                | 9,132                              | 38,234                           | 1,095                                   |
| 1913 | 20,543,377                     | 22,504,230                | 9,129                              | 38,220                           | 1,095                                   |
| 1914 | 19,787,446                     | 23,233,915                | 8,517                              | 35,657                           | 1,174                                   |
| 1915 | 19,797,992                     | 26,007,690                | 7,612                              | 31,871                           | 1,314                                   |
| 1916 | 19,766,669                     | 29,042,707                | 6,806                              | 28,496                           | 1,469                                   |
| 1917 | 17,566,237                     | 30,339,106                | 5,790                              | 24,241                           | 1,727                                   |
| 1918 | 18,686,931                     | 30,664,525                | 6,094                              | 25,514                           | 1,641                                   |
| 1919 | 18,227,314                     | 25,748,126                | 7,079                              | 29,639                           | 1,413                                   |
| 1920 | 17,462,862                     | 23,560,391                | 7,412                              | 31,032                           | 1,349                                   |
| 1921 | 19,034,932                     | 23,227,731                | 8,195                              | 34,310                           | 1,220                                   |
| 1922 | 20,069,207                     | 24,396,155                | 8,226                              | 34,442                           | 1,216                                   |
| 1923 | 20,755,699                     | 25,801,122                | 8,044                              | 33,681                           | 1,243                                   |
| 1924 | 22,522,805                     | 26,015,162                | 8,658                              | 36,248                           | 1,155                                   |
| 1925 | 22,592,300                     | 27,743,773                | 8,143                              | 34,094                           | 1,228                                   |
| 1926 | 24,189,636                     | 28,027,433                | 8,631                              | 36,135                           | 1,159                                   |
| 1927 | 25,360,712                     | 27,442,116                | 9,242                              | 38,692                           | 1,082                                   |
| 1928 | 24,079,841                     | 29,449,642                | 8,177                              | 34,234                           | 1,223                                   |
| 1929 | 25,845,955                     | 30,438,256                | 8,491                              | 35,551                           | 1,178                                   |
| 1930 | 24,494,872                     | 28,973,795                | 8,454                              | 35,396                           | 1,183                                   |
| 1931 | 22,592,326                     | 28,807,377                | 7,843                              | 32,835                           | 1,275                                   |
| 1932 | 20,769,078                     | 29,762,755                | 6,978                              | 29,216                           | 1,433                                   |
| 1933 | 21,688,591                     | 29,582,550                | 7,332                              | 30,696                           | 1,364                                   |
| 1934 | 23,896,195                     | 29,707,470                | 8,044                              | 33,678                           | 1,243                                   |
| 1935 | 25,532,272                     | 32,586,680                | 7,835                              | 32,804                           | 1,276                                   |
| 1936 | 21,497,309                     | 32,637,630                | 6,587                              | 27,577                           | 1,518                                   |
| 1937 | 25,756,724                     | 34,847,793                | 7,391                              | 30,946                           | 1,353                                   |
| 1938 | 25,643,114                     | 35,106,722                | 7,304                              | 30,582                           | 1,369                                   |
| 1939 | 25,830,249                     | 37,690,838                | 6,853                              | 28,693                           | 1,459                                   |
| 1940 | 27,662,770                     | 37,875,559                | 7,304                              | 30,579                           | 1,369                                   |
| 1941 | 26,755,701                     | 37,347,724                | 7,164                              | 29,994                           | 1,396                                   |
| 1942 | 27,336,210                     | 36,846,460                | 7,419                              | 31,062                           | 1,348                                   |
| 1943 | 23,039,962                     | 36,996,888                | 6,228                              | 26,073                           | 1,606                                   |
| 1944 | 14,757,486                     | 27,124,936                | 5,441                              | 22,779                           | 1,838                                   |
| 1945 | 13,721,987                     | 21,254,625                | 6,456                              | 27,030                           | 1,549                                   |
| 1946 | 18,715,463                     | 27,927,031                | 6,702                              | 28,058                           | 1,492                                   |
| 1947 | 24,837,831                     | 32,831,249                | 7,565                              | 31,674                           | 1,322                                   |
| 1948 | 25,065,443                     | 34,699,835                | 7,224                              | 30,243                           | 1,384                                   |
| 1949 | 26,400,658                     | 37,196,497                | 7,098                              | 29,716                           | 1,409                                   |
| 1950 | 27,832,521                     | 40,180,898                | 6,927                              | 29,001                           | 1,444                                   |
| 1951 | 30,790,458                     | 43,305,950                | 7,110                              | 29,768                           | 1,406                                   |
| 1952 | 31,497,688                     | 46,490,901                | 6,775                              | 28,366                           | 1,476                                   |
| 1953 | 33,638,217                     | 49,804,980                | 6,754                              | 28,278                           | 1,481                                   |
| 1954 | 36,549,599                     | 52,325,710                | 6,985                              | 29,245                           | 1,432                                   |
| 1955 | 38,037,891                     | 55,276,567                | 6,881                              | 28,811                           | 1,453                                   |
| 1956 | 38,575,845                     | 58,091,934                | 6,640                              | 27,802                           | 1,506                                   |
| 1957 | 42,176,597                     | 61,008,864                | 6,913                              | 28,944                           | 1,447                                   |
| 1958 | 40,631,820                     | 64,282,848                | 6,321                              | 26,464                           | 1,582                                   |
| 1959 | 46,510,628                     | 67,407,108                | 6,900                              | 28,889                           | 1,449                                   |
| 1960 | 50,932,948                     | 71,070,008                | 7,167                              | 30,005                           | 1,395                                   |

*(segue)*

|      | Energy<br>Consumption<br>(Toe) | GDP<br>1911 lire<br>(000) | Energy<br>Intensity<br>(kcal/lira) | Energy<br>Intensity<br>(kj/lira) | Productivity<br>of energy<br>(lire/toe) |
|------|--------------------------------|---------------------------|------------------------------------|----------------------------------|---|
| 1961 | 56,006,112                     | 76,855,535                | 7,287                              | 30,510                           | 1,372                                   |
| 1962 | 62,380,376                     | 83,012,250                | 7,515                              | 31,462                           | 1,331                                   |
| 1963 | 68,262,475                     | 95,091,585                | 7,179                              | 30,055                           | 1,393                                   |
| 1964 | 73,456,518                     | 92,646,496                | 7,929                              | 33,196                           | 1,261                                   |
| 1965 | 80,632,309                     | 94,767,523                | 8,508                              | 35,623                           | 1,175                                   |
| 1966 | 85,473,775                     | 99,812,172                | 8,563                              | 35,854                           | 1,168                                   |
| 1967 | 93,056,095                     | 107,153,157               | 8,684                              | 36,360                           | 1,151                                   |
| 1968 | 102,567,384                    | 116,248,840               | 8,823                              | 36,941                           | 1,133                                   |
| 1969 | 109,574,139                    | 122,918,543               | 8,914                              | 37,323                           | 1,122                                   |
| 1970 | 123,202,817                    | 125,826,352               | 9,791                              | 40,995                           | 1,021                                   |
| 1971 | 127,406,739                    | 128,232,003               | 9,936                              | 41,599                           | 1,006                                   |
| 1972 | 137,879,398                    | 132,037,819               | 10,442                             | 43,720                           | 958                                     |
| 1973 | 146,342,672                    | 140,570,782               | 10,411                             | 43,587                           | 961                                     |
| 1974 | 145,335,457                    | 147,393,658               | 9,860                              | 41,283                           | 1,014                                   |
| 1975 | 138,823,461                    | 144,322,821               | 9,619                              | 40,273                           | 1,040                                   |
| 1976 | 148,568,933                    | 153,816,459               | 9,659                              | 40,440                           | 1,035                                   |
| 1977 | 145,145,410                    | 158,200,974               | 9,175                              | 38,413                           | 1,090                                   |
| 1978 | 149,205,599                    | 164,102,897               | 9,092                              | 38,067                           | 1,100                                   |
| 1979 | 154,000,714                    | 173,513,082               | 8,875                              | 37,160                           | 1,127                                   |
| 1980 | 151,802,374                    | 179,542,479               | 8,455                              | 35,399                           | 1,183                                   |
| 1981 | 148,932,594                    | 180,617,748               | 8,246                              | 34,523                           | 1,213                                   |
| 1982 | 144,435,628                    | 182,047,775               | 7,934                              | 33,218                           | 1,260                                   |
| 1983 | 143,627,378                    | 184,722,733               | 7,775                              | 32,554                           | 1,286                                   |
| 1984 | 146,105,948                    | 189,637,766               | 7,704                              | 32,257                           | 1,298                                   |
| 1985 | 148,424,974                    | 195,381,601               | 7,597                              | 31,806                           | 1,316                                   |
| 1986 | 149,970,456                    | 203,497,146               | 7,370                              | 30,855                           | 1,357                                   |
| 1987 | 156,429,354                    | 203,888,343               | 7,672                              | 32,122                           | 1,303                                   |
| 1988 | 159,801,893                    | 218,752,159               | 7,305                              | 30,585                           | 1,369                                   |
| 1989 | 164,941,600                    | 225,366,337               | 7,319                              | 30,642                           | 1,366                                   |
| 1990 | 166,411,911                    | 231,105,585               | 7,201                              | 30,148                           | 1,389                                   |
| 1991 | 168,313,090                    | 230,294,400               | 7,309                              | 30,600                           | 1,368                                   |
| 1992 | 169,653,276                    | 232,487,547               | 7,297                              | 30,552                           | 1,370                                   |
| 1993 | 167,709,862                    | 230,396,494               | 7,279                              | 30,476                           | 1,374                                   |
| 1994 | 164,730,961                    | 235,392,602               | 6,998                              | 29,300                           | 1,429                                   |
| 1995 | 172,921,262                    | 241,869,622               | 7,149                              | 29,933                           | 1,399                                   |
| 1996 | 172,497,211                    | 244,964,234               | 7,042                              | 29,482                           | 1,420                                   |
| 1997 | 175,022,906                    | 249,762,791               | 7,008                              | 29,339                           | 1,427                                   |
| 1998 | 179,443,496                    | 254,276,574               | 7,057                              | 29,546                           | 1,417                                   |
| 1999 | 182,162,115                    | 258,449,591               | 7,048                              | 29,510                           | 1,419                                   |
| 2000 | 184,377,461                    | 265,939,350               | 6,933                              | 29,027                           | 1,442                                   |

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