# International Smoking Statistics 

Web Edition

## A collection of worldwide historical data

## Sweden

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## Preface

International Smoking Statistics is a collection of smoking data covering most of Europe and various other economically developed countries. The second edition (published by Wolfson Institute of Preventive Medicine and OUP, 2002, www.oup.co.uk/isbn/0-19-850856-5) included data for 30 countries up to 1995. Since 2006, work has been ongoing to make individual country updates available online. Please register at www.pnlee.co.uk if you wish to be informed when updates are posted.

The methods used in the web edition are essentially unchanged from those of the second edition, although some minor changes are included in the online Methods chapter. Readers are strongly recommended to consult the Methods chapter.

The two main types of data presented are sales data and survey data. We give the results of the original authors as closely as possible, whilst presenting them in a uniform format.

Sales data give the total national consumption of tobacco. Data on sales of cigarettes and of all tobacco products are presented, usually from about 1920. Estimates of the consumption of hand-rolled cigarettes are included where possible, as are data on the types of manufactured cigarettes sold. The Tobacco Research Council provided most of the sales data until 1973, while later sales data were obtained from government and industry sources.

Survey data provide information on the prevalence and amount of smoking according to age and sex. These were obtained from a wide variety of surveys. Some survey data are available for the early part of the $20^{\text {th }}$ century, but for most countries they are available only from the 1950s or 1960s onwards.

In additional tables we calculate further statistics by combining sales and survey data using certain standardized assumptions. The figures are intended to provide an easily interpretable summary of the data presented in the tables, and the commentary has deliberately been kept to a minimum.

## Downloads

Updates currently available to download from www.pnlee.co.uk include:
Methods, including
Appendix I: Estimated size of adult population;
Appendix II: Comparisons of manufactured and hand-rolled
cigarettes and differences in the way they are smoked;
Appendix III: Consumption category estimation;
Comparisons between countries;
Updated country chapters (see Methods for current list);
Tables from each updated chapter, in Excel format, including extended versions of Tables 4 and 6 and Figure 3 for chapters issued since January 2011;

Supplement 1: Estimation of sex-specific smoking statistics by standardized age groups and time periods. [The web edition comprises a brief Update

Note, together with tables (in Excel format only) for the countries with a chapter in the web edition. The original Supplement 1 to the second edition (an extended version of Appendix IV to the second edition) is also available and gives a full description and tables for the other countries].

Also available from the same source are:
Supplement 2 to the second edition: Estimating past smoking habits by an indirect method. An investigation into a method based on recall, with application to Great Britain. [This supplement is an extended version of Appendix V to the second edition];
IMASS, a comprehensive Excel database system, based on WHO mortality data and smoking statistics from Supplement 1. The IMASS system includes powerful routines for creating graphs and tables.

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We would also like to thank the many government and research organizations and individuals who supplied much of the information included.
We thank Yvonne Cooper, Pauline Wassell and Diana Morris for maintenance of our references database.

We are indebted to G. F. Todd, past director of the Tobacco Research Council, who, shortly before he died in 1988, had prepared a draft report from which the first edition of International Smoking Statistics developed.
Professor Nicholas Wald was an editor of earlier editions, and we thank him for his support and encouragement.
We alone bear the responsibility for the analysis and interpretation of the data presented.

## Introduction

## Sales data

See Tables 1-3 and Notes on sources of sales data.
From 1920 until 1945 the consumption of manufactured cigarettes per adult was about 1 cigarette per day. Consumption rose steadily until the mid-1970s when it levelled around 5 cigarettes per day. From the mid-1980s it has declined to around 2.5 cigarettes per day in the mid-2000s. Between 1950 and 1980, our estimates for hand-rolled cigarettes suggest that consumption, always much lower than that of manufactured cigarettes, was about 0.2 to 0.3 cigarettes per adult per day; there may have been some rise in consumption in the 1980s and 1990s, but this is uncertain as cross-border sales of hand-rolling tobacco to Norway were high at that period.

Smokeless tobacco has long been used in Sweden. Initially it was dry snuff taken nasally. During the $19^{\text {th }}$ century, there was a change to snus, or moist snuff, which consists of very finely ground tobacco with high moisture content, of which a 'pinch' is placed between the cheek and the gum (Ramström (1990)). More recently, portion-packed snus has become available (Axéll (1993)). In 1920 the consumption of snus per adult exceeded 4 g per day. Consumption fell to 1 g per day in the late 1960 s , then increased to 2.5 g per day in the mid-2000s.
The consumption of all tobacco products (including snus) per adult was between 4 and 5 g per day from the mid-1920s to the mid-1940s, then between 5 and 6 g until the early 1990s, and again between 4 and 5 g since then. In the 1920s, the largest proportion of tobacco used was snus, while consumption of manufactured cigarettes accounted for less than $10 \%$. The proportion of manufactured cigarettes increased to over $60 \%$ in the 1960s and 1970s, but decreased again to $35 \%$ by 2006. The proportion of tobacco used as snus correspondingly decreased to below $20 \%$, then increased to over $50 \%$ since the late 1990s. The proportion used as pipe and hand-rolling tobacco has been slowly decreasing, from a peak over $20 \%$ in the 1940s to below $10 \%$ since the late 1970s. Consumption of cigars and cigarillos declined from $9 \%$ in the 1920 s to $1 \%$ from the 1980s.

## Survey data

See Tables 4-11 and Notes on sources of survey data.
In the late nineteenth century, smoking was largely restricted to men. (Haglund (1988), Hyllienmark (1983)).

In surveys from 1946-1963 (sources 6, 11 and 24), the prevalence of regular smoking among men aged 15 years and over was about $30 \%$ for cigarette smoking and $50 \%$ for any smoking; estimates of the additional prevalence of occasional smoking varied considerably. Over the same period, the prevalence of regular smoking among women increased from $9 \%$ to $20 \%$.

Survey data are available annually from industry sources (sources 1 and 2) from 1969 to the early 1980s, but differences in the age range and smoking frequency reported by the two sources lead to an apparent difference in prevalence for females (aged 15 years and over) of about 5\% (Table 8); for males, one cannot distinguish how much of the difference of $15-20 \%$ is due to these differences and how much to the difference in prevalence between cigarette smokers and smokers
of all products. Other series of national survey data are also available, notably the Statistics Sweden Survey of Living Conditions (ULF) (source 8-9) since 1977, the National Smoking and Health Association (NTS) (source 14-15) for 1976-1987, and the National Institute of Public Health (source 22) more recently.

The prevalence of cigarette smoking among men aged 15 years and over fell from about $40 \%$ in the late 1960s to $23 \%$ in the late-1980s. Over the same period the prevalence of regular smoking fell from about $55 \%$ to $26 \%$; implying that the additional percentage smoking other products probably fell from 15 to $3 \%$. The prevalence of regular smoking continued to decrease, to $13 \%$ or $11 \%$ (sources 8 , 22) in the most recent surveys. There may have been a small increase in the additional prevalence of occasional smoking from about $8 \%$ in the 1970 s to $11 \%$ in the 2000s. The prevalence of smoking among women was $30 \%$ (source 1 ) or $35 \%$ (source 2 ) by the mid-1970s, but then fell to about $15 \%$ for regular smoking and $25 \%$ for all smoking by the mid-2000s; virtually no women smoke products other than cigarettes. From the 1990s, the estimated prevalence of smoking was similar or slightly higher among women than among men.
Data on adult smoking by age are available since 1963. In that year, more men than women smoked at all ages. Since the 1970s most surveys have shown that the prevalence was higher among women than men at younger ages, about equal among the middle age groups, and lower for women at the older ages. The ages at which this direction of difference occurred has gradually moved upwards - in the early 1970s more women than men smoked up to about age 30, in the mid-1980s up to about age 40 , and by the late 1990s up to about age 60 . The prevalence of smoking decreased among both young men and young women, but this was more marked for young men, prevalence always being quite low among older women.

Annual national school-based data on smoking by adolescents have been available since 1971 (source 7), and there have also been occasional national postal surveys (source 28). More girls than boys aged 15 and over smoked throughout, while there was little difference in the prevalence between the sexes at age 13 .

Comparison between survey and sales data is only rarely possible. It suggests that the ULF survey (source 9) increasingly under-reported consumption, by $15 \%$ in 1980 , by about $25 \%$ for $1983-1996$ and by $30 \%$ in 2004 . Other surveys varied between a $35 \%$ understatement (source 6 in 1963, and source 21 in 2002) and virtually none (source 21 in 1995). In 1963, the estimated number of cigarettes smoked per person per day (sales-adjusted) was 5.2 for men and 2.6 for women. For men, it was estimated to be about 6 for men from 1969 to 1980, then decreased to below 3 by the mid-2000s. For women, it increased to about 4 for 1975 to 1990, then also decreased to below 3 by the mid-2000s.

In the 1950s, snus use was predominantly restricted to older men, but it spread rapidly among younger men from 1969 onwards (sources 26, 27). The prevalence of regular snus use among men age 15 and over rose from about $12 \%$ in the 1950 s to $20 \%$ in the mid-1980s, and has remained around that level. Among women, it rose from negligible levels to about $3 \%$ during the 2000s. A further $5 \%$ of men and $3 \%$ of women use snus occasionally.

No data on the use of any tobacco product (i.e. smoking and/or snus use) are available until the 1980s. For women, they differ little from the smoking data. The prevalence of regular use of any tobacco among men aged 15 and over decreased from $46 \%$ in 1980 to about $30 \%$ in the mid-2000s. The Notes on sources of survey data show some data on joint usage (smoking only, snus only or both).

Table 1.1 Total annual sales of tobacco products, 1920-1973

| Year | Manufactured cigarettes |  | Cigars |  | Cigarillos |  | Smoking tobacco tonnes | Chewing tobacco tonnes | Snuff tonnes | All tobacco products tonnes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | tonnes | millions | tonnes | millions | tonnes | millions |  |  |  |  |
| 1920 | 820 | 1559 | 540 | 89 | 320 | 118 | 770 | 360 | 6530 | 9340 |
| 1921 | 730 | 1345 | 360 | 58 | 320 | 117 | 820 | 320 | 6080 | 8620 |
| 1922 | 640 | 1123 | 360 | 62 | 320 | 118 | 910 | 270 | 5670 | 8160 |
| 1923 | 590 | 1058 | 230 | 40 | 360 | 120 | 950 | 270 | 5490 | 7890 |
| 1924 | 640 | 1089 | 230 | 39 | 360 | 128 | 1000 | 230 | 5350 | 7800 |
| 1925 | 640 | 1085 | 270 | 39 | 410 | 137 | 1040 | 230 | 5310 | 7890 |
| 1926 | 680 | 1204 | 270 | 41 | 410 | 141 | 1040 | 230 | 5260 | 7890 |
| 1927 | 730 | 1284 | 270 | 40 | 410 | 141 | 1000 | 180 | 5130 | 7710 |
| 1928 | 860 | 1446 | 270 | 39 | 410 | 146 | 1000 | 180 | 4990 | 7710 |
| 1929 | 950 | 1640 | 270 | 37 | 450 | 160 | 1000 | 180 | 4850 | 7710 |
| 1930 | 1090 | 1864 | 230 | 36 | 500 | 174 | 950 | 140 | 4850 | 7760 |
| 1931 | 1270 | 1999 | 230 | 32 | 500 | 171 | 910 | 140 | 4850 | 7890 |
| 1932 | 1360 | 2012 | 180 | 31 | 500 | 171 | 1000 | 140 | 4850 | 8030 |
| 1933 | 1320 | 1894 | 180 | 29 | 450 | 170 | 1000 | 140 | 4760 | 7850 |
| 1934 | 1500 | 1878 | 180 | 29 | 450 | 174 | 1000 | 90 | 4580 | 7800 |
| 1935 | 1630 | 1843 | 180 | 27 | 500 | 179 | 1000 | 90 | 4490 | 7890 |
| 1936 | 1770 | 1806 | 180 | 26 | 500 | 187 | 1040 | 90 | 4400 | 7980 |
| 1937 | 1910 | 1822 | 180 | 26 | 500 | 193 | 1040 | 90 | 4400 | 8120 |
| 1938 | 2040 | 1889 | 140 | 25 | 540 | 196 | 1090 | 90 | 4350 | 8260 |
| 1939 | 2180 | 1976 | 140 | 23 | 540 | 197 | 1090 | 90 | 4260 | 8300 |
| 1940 | 2400 | 2126 | 140 | 20 | 450 | 176 | 1360 | 90 | 3900 | 8350 |
| 1941 | 2310 | 2191 | 140 | 25 | 450 | 204 | 1540 | 90 | 3860 | 8390 |
| 1942 | 1500 | 2235 | 140 | 24 | 410 | 171 | 1680 | 50 | 3400 | 7170 |
| 1943 | 1680 | 2237 | 180 | 34 | 360 | 158 | 1680 | 50 | 3270 | 7210 |
| 1944 | 2360 | 2307 | 180 | 30 | 410 | 160 | 2000 | 50 | 3490 | 8480 |
| 1945 | 2810 | 2468 | 180 | 28 | 410 | 154 | 1950 | 50 | 3490 | 8890 |
| 1946 | 3720 | 3141 | 180 | 30 | 410 | 157 | 1720 | 50 | 3490 | 9570 |
| 1947 | 4310 | 3670 | 180 | 27 | 360 | 146 | 1540 | 50 | 3450 | 9890 |
| 1948 | 4490 | 3809 | 140 | 26 | 360 | 144 | 1630 | 50 | 3360 | 10020 |
| 1949 | 4670 | 3984 | 140 | 23 | 320 | 134 | 1540 | 50 | 3220 | 9930 |
| 1950 | 4850 | 4352 | 140 | 23 | 320 | 133 | 1500 | 50 | 3130 | 9980 |
| 1951 | 4850 | 4416 | 140 | 20 | 230 | 104 | 1410 | 50 | 2900 | 9570 |
| 1952 | 5530 | 5121 | 140 | 21 | 270 | 114 | 1500 | 50 | 2950 | 10430 |
| 1953 | 5580 | 5248 | 140 | 20 | 270 | 115 | 1500 | 50 | 2900 | 10430 |
| 1954 | 5530 | 5289 | 140 | 23 | 270 | 129 | 1500 | 50 | 2900 | 10390 |
| 1955 | 5760 | 5548 | 140 | 23 | 270 | 135 | 1450 | 50 | 2860 | 10520 |
| 1956 | 5940 | 5714 | 140 | 21 | 270 | 130 | 1360 | 50 | 2770 | 10520 |
| 1957 | 6080 | 5903 | 140 | 21 | 270 | 134 | 1320 | 50 | 2720 | 10570 |
| 1958 | 6210 | 6066 | 90 | 20 | 270 | 137 | 1450 | 50 | 2680 | 10750 |
| 1959 | 6530 | 6240 | 90 | 19 | 270 | 142 | 1500 | 50 | 2630 | 11070 |
| 1960 | 7080 | 6740 | 140 | 21 | 360 | 197 | 1590 | 50 | 2680 | 11880 |
| 1961 | 7530 | 7216 | 90 | 29 | 360 | 188 | 1540 | 50 | 2590 | 12160 |
| 1962 | 7760 | 7498 | 90 | 29 | 360 | 195 | 1540 | 50 | 2540 | 12340 |
| 1963 | 7980 | 7860 | 450 | 223 |  |  | 1540 | 0 | 2540 | 12520 |
| 1964 | 7940 | 7810 | 640 | 310 | Include | d w ith | 1720 | 0 | 2540 | 12840 |
| 1965 | 8160 | 8300 | 590 | 311 | cigar | s for | 1720 | 0 | 2490 | 12970 |
| 1966 | 8620 | 8700 | 590 | 318 | 1963 t | to 1973 | 1720 | 0 | 2490 | 13430 |
| 1967 | 8350 | 8927 | 680 | 331 |  |  | 1720 | 0 | 2400 | 13150 |
| 1968 | 8620 | 9679 | 680 | 333 |  |  | 1680 | 0 | 2360 | 13340 |
| 1969 | 8660 | 10147 | 640 | 334 |  |  | 1590 | 0 | 2400 | 13290 |
| 1970 | 8350 | 10269 | 640 | 326 |  |  | 1590 | 0 | 2490 | 13060 |
| 1971 | 7760 | 9957 | 540 | 282 |  |  | 1540 | 0 | 2630 | 12470 |
| 1972 | 8710 | 11243 | 500 | 254 |  |  | 1410 | 0 | 2680 | 13290 |
| 1973 | 7080 | 9265 | 450 | 249 |  |  | 1450 | 0 | 2720 | 11700 |

[^1]Table 1.2 Total annual sales of tobacco products, 1974-2006

| Year | Manufactured cigarettes |  | Cigars \& cigarillos |  |  |  | Smoking \& chewing tobacco |  | Snuff tobacco tonnes | All tobacco products ${ }^{2}$ tonnes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | tonnes | $\begin{array}{r} \text { cigars } \\ \text { millions } \end{array}$ | cigarillos millions |  |  | cross-border ${ }^{1}$ |  |  |
|  | tonnes | millions |  |  |  |  | tonnes | tonnes |  |  |
| 1974 | 7196 | 11070 | 474 | 8 |  | 243 | 1369 | 46 | 2812 | 11805 |
| 1975 | 7587 | 11674 | 465 | 8 |  | 242 | 1301 | 50 | 2943 | 12246 |
| 1976 | 7792 | 11988 | 443 | 7 |  | 234 | 1252 | 54 | 3189 | 12622 |
| 1977 | 7382 | 11357 | 378 | 6 |  | 201 | 1174 | 56 | 3361 | 12239 |
| 1978 | 7623 | 11727 | 325 | 5 |  | 174 | 1134 | 64 | 3442 | 12460 |
| 1979 | 7782 | 11973 | 301 | 5 |  | 162 | 1105 | 68 | 3550 | 12670 |
| 1980 | 7741 | 11909 | 280 | 5 |  | 150 | 1146 | 74 | 3665 | 12758 |
| 1981 | 7464 | 11483 | 249 | 4 |  | 138 | 1147 | 84 | 3760 | 12536 |
| 1982 | 7840 | 12062 | 236 | 4 |  | 133 | 1337 | 200 | 3930 | 13143 |
| 1983 | 7514 | 11560 | 200 | 4 |  | 121 | 1534 | 350 | 4029 | 12927 |
| 1984 | 7476 | 11502 | 192 | 4 |  | 116 | 1768 | 350 | 4332 | 13418 |
| 1985 | 7249 | 11152 | 175 | 3 |  | 108 | 1700 | 280 | 4560 | 13404 |
| 1986 | 7287 | 11211 | 169 | 3 |  | 105 | 1604 | 350 | 4673 | 13383 |
| 1987 | 7219 | 11106 | 156 | 3 |  | 99 | 1499 | 336 | 4695 | 13233 |
| 1988 | 7278 | 11197 | 143 | 3 |  | 91 | 1437 | 318 | 4594 | 13134 |
| 1989 | 7116 | 10948 | 150 | 3 |  | 100 | 1430 | 308 | 4606 | 12994 |
| 1990 | 6899 | 10610 | 183 | 3 |  | 131 | 1409 | 237 | 4632 | 12886 |
| 1991 | 6852 | 10541 | 184 | 3 |  | 137 | 1372 | 204 | 4836 | 13040 |
| 1992 | 7128 | 10966 | 174 | 3 |  | 132 | 1468 | 272 | 5007 | 13505 |
| 1993 | 5670 | 8723 | 144 | 2 |  | 109 | 1318 | 160 | 5034 | 12006 |
| 1994 | 5662 | 8710 | 129 |  | 100 |  | 1332 | 189 | 5238 | 12172 |
| 1995 | 5280 | 8123 | 117 |  | 90 |  | 1303 | 194 | 5407 | 11913 |
| 1996 | 5381 | 8278 | 111 |  | 83 |  | 1314 | 205 | 5637 | 12238 |
| 1997 | 3900 | 5999 | 96 |  | 73 |  | 1139 | 150 | 5328 | 10313 |
| 1998 | 3730 | 5738 | 92 |  | 71 |  | 1131 |  | 5350 | 10303 |
| 1999 | 4471 | 6878 | 78 |  | 60 |  | 948 |  | 5690 | 11187 |
| 2000 | 4594 | 7067 | 79 |  | 61 |  | 934 |  | 6229 | 11836 |
| 2001 | 4739 | 7290 | 78 |  | 60 |  | 906 |  | 6462 | 12185 |
| 2002 | 4861 | 7478 | 69 |  | 53 |  | 896 |  | 6752 | 12578 |
| 2003 | 4696 | 7224 | 60 |  | 46 |  | 837 |  | 6762 | 12355 |
| 2004 | 4485 | 6900 | 59 |  | 46 |  | 914 |  | 6725 | 12183 |
| 2005 | 4499 | 6922 | 59 |  | 45 |  | 971 |  | 6561 | 12090 |
| 2006 | 4353 | 6697 | 62 |  | 48 |  | 805 |  | 7186 | 12406 |

[^2]Table 1.3 Percentage of sales of tobacco in different forms (by weight), selected years

| Year | Manufactured <br> cigarettes | Cigars and Pipe and hand- <br> cigarillos | Chewing <br> rolling <br> tobacco | Snuff |  |
| ---: | ---: | ---: | ---: | ---: | ---: |
|  | $\%$ | $\%$ | 13.2 | 2.9 | 67.3 |
| 1925 | 8.1 | 8.6 | 12.7 | 1.1 | 56.9 |
| 1935 | 20.7 | 8.6 | 21.9 | 0.6 | 39.3 |
| 1945 | 31.6 | 6.6 | 13.8 | 0.5 | 27.2 |
| 1955 | 54.8 | 3.9 | 13.3 |  | 0.0 |
| 1965 | 62.9 | 4.5 |  | 10.2 |  |
| 1975 | 62.0 | 3.8 | 9.5 | 24.0 |  |
| 1985 | 54.1 | 1.3 | 9.1 | 34.0 |  |
| 1995 | 44.3 | 1.0 | 8.0 | 45.4 |  |
| 2005 | 37.2 | 0.5 |  | 54.3 |  |

Source: calculated from Tables 1.1 \& 1.2, excluding cross-border sales 1975, 1985 and 1995

Figure 1 Percentage of sales of tobacco in different forms (by weight), selected years


[^3]Table 2 Sales of cigarettes (including estimated number of hand-rolled cigarettes) and of all tobacco products.
Annual total and average per adult (age 15 years and over) per day

| Year | Manufactured cigarettes |  | Hand-rolled cigarettes | Total cigarettes |  | All tobacco products |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total annual millions | Numberl adult/day | Total annual Numberl millions adult/day | Total annua millions | Numberl adult/day | Total annual tonnes | Grams/ adult/day |
| 1920 | 1559 | 1.0 |  |  |  | 9340 | 6.1 |
| 1921 | 1345 | 0.9 |  |  |  | 8620 | 5.6 |
| 1922 | 1123 | 0.7 |  |  |  | 8160 | 5.2 |
| 1923 | 1058 | 0.7 |  |  |  | 7890 | 5.0 |
| 1924 | 1089 | 0.7 |  |  |  | 7800 | 4.9 |
| 1925 | 1085 | 0.7 |  |  |  | 7890 | 4.9 |
| 1926 | 1204 | 0.7 |  |  |  | 7890 | 4.9 |
| 1927 | 1284 | 0.8 |  |  |  | 7710 | 4.7 |
| 1928 | 1446 | 0.9 |  |  |  | 7710 | 4.7 |
| 1929 | 1640 | 1.0 |  |  |  | 7710 | 4.6 |
| 1930 | 1864 | 1.1 |  |  |  | 7760 | 4.6 |
| 1931 | 1999 | 1.2 |  |  |  | 7890 | 4.6 |
| 1932 | 2012 | 1.2 |  |  |  | 8030 | 4.7 |
| 1933 | 1894 | 1.1 |  |  |  | 7850 | 4.5 |
| 1934 | 1878 | 1.1 |  |  |  | 7800 | 4.4 |
| 1935 | 1843 | 1.0 |  |  |  | 7890 | 4.4 |
| 1936 | 1806 | 1.0 |  |  |  | 7980 | 4.4 |
| 1937 | 1822 | 1.0 |  |  |  | 8120 | 4.5 |
| 1938 | 1889 | 1.0 |  |  |  | 8260 | 4.5 |
| 1939 | 1976 | 1.1 |  |  |  | 8300 | 4.5 |
| 1940 | 2126 | 1.1 |  |  |  | 8350 | 4.5 |
| 1941 | 2191 | 1.2 |  |  |  | 8390 | 4.5 |
| 1942 | 2235 | 1.2 |  |  |  | 7170 | 3.8 |
| 1943 | 2237 | 1.2 |  |  |  | 7210 | 3.8 |
| 1944 | 2307 | 1.2 |  |  |  | 8480 | 4.5 |
| 1945 | 2468 | 1.3 |  |  |  | 8890 | 4.7 |
| 1946 | 3141 | 1.6 |  |  |  | 9570 | 5.0 |
| 1947 | 3670 | 1.9 |  |  |  | 9890 | 5.1 |
| 1948 | 3809 | 2.0 |  |  |  | 10020 | 5.1 |
| 1949 | 3984 | 2.0 |  |  |  | 9930 | 5.1 |
| 1950 | 4352 | 2.2 | 6750.3 | 5027 | 2.6 | 9980 | 5.1 |
| 1951 | 4416 | 2.2 | 6350.3 | 5051 | 2.6 | 9570 | 4.8 |
| 1952 | 5121 | 2.6 | 6750.3 | 5796 | 2.9 | 10430 | 5.3 |
| 1953 | 5248 | 2.6 | $675 \quad 0.3$ | 5923 | 3.0 | 10430 | 5.2 |
| 1954 | 5289 | 2.6 | 6750.3 | 5964 | 3.0 | 10390 | 5.2 |
| 1955 | 5548 | 2.7 | 653 0.3 | 6201 | 3.1 | 10520 | 5.2 |
| 1956 | 5714 | 2.8 | 6120.3 | 6326 | 3.1 | 10520 | 5.2 |
| 1957 | 5903 | 2.9 | $594 \quad 0.3$ | 6497 | 3.2 | 10570 | 5.1 |
| 1958 | 6066 | 2.9 | 653 0.3 | 6719 | 3.2 | 10750 | 5.2 |
| 1959 | 6240 | 3.0 | $675 \quad 0.3$ | 6915 | 3.3 | 11070 | 5.3 |
| 1960 | 6740 | 3.2 | 7160.3 | 7456 | 3.5 | 11880 | 5.6 |
| 1961 | 7216 | 3.4 | 693 0.3 | 7909 | 3.7 | 12160 | 5.7 |
| 1962 | 7498 | 3.5 | 693 0.3 | 8191 | 3.8 | 12340 | 5.7 |
| 1963 | 7860 | 3.6 | 693 0.3 | 8553 | 3.9 | 12520 | 5.7 |
| 1964 | 7810 | 3.5 | 7740.4 | 8584 | 3.9 | 12840 | 5.8 |
| 1965 | 8300 | 3.7 | 7740.3 | 9074 | 4.1 | 12970 | 5.8 |
| 1966 | 8700 | 3.9 | 774 | 9474 | 4.2 | 13430 | 6.0 |
| 1967 | 8927 | 3.9 | 7740.3 | 9701 | 4.3 | 13150 | 5.8 |
| 1968 | 9679 | 4.2 | 756 0.3 | 10435 | 4.6 | 13340 | 5.8 |
| 1969 | 10147 | 4.4 | 7160.3 | 10863 | 4.7 | 13290 | 5.8 |
| 1970 | 10269 | 4.4 | 7160.3 | 10985 | 4.7 | 13060 | 5.6 |
| 1971 | 9957 | 4.3 | 6930.3 | 10650 | 4.5 | 12470 | 5.3 |
| 1972 | 11243 | 4.8 | 635 0.3 | 11878 | 5.1 | 13290 | 5.7 |
| 1973 | 9265 | 3.9 | 653 0.3 | 9918 | 4.2 | 11700 | 5.0 |
| 1974 | 11070 | 4.7 | $589 \quad 0.2$ | 11659 | 4.9 | 11805 | 5.0 |
| 1975 | 11674 | 4.9 | 557 0.2 | 12231 | 5.2 | 12246 | 5.2 |
| 1976 | 11988 | 5.0 | 533 0.2 | 12521 | 5.3 | 12622 | 5.3 |
| 1977 | 11357 | 4.7 | 4960.2 | 11853 | 5.0 | 12239 | 5.1 |
| 1978 | 11727 | 4.9 | 4750.2 | 12202 | 5.1 | 12460 | 5.2 |
| 1979 | 11973 | 4.9 | $459 \quad 0.2$ | 12432 | 5.1 | 12670 | 5.2 |

Table 2 (continued)

| Year | Manufactured cigarettes |  | Hand-rolled cigarettes |  | Total cigarettes |  | All tobacco products |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total annual millions | Numberl adult/day | Total annual millions | Numberl adult/day | Total annual millions | Numberl adult/day | Total annual tonnes | Gramsl adult/day |
| 1980 | 11909 | 4.9 | 474 | 0.2 | 12383 | 5.1 | 12758 | 5.2 |
| 1981 | 11483 | 4.7 | 448 | 0.2 | 11931 | 4.9 | 12536 | 5.1 |
| 1982 | 12062 | 4.9 | 535 | 0.2 | 12597 | 5.1 | 13143 | 5.3 |
| 1983 | 11560 | 4.7 | 615 | 0.2 | 12175 | 4.9 | 12927 | 5.2 |
| 1984 | 11502 | 4.6 | 893 | 0.4 | 12395 | 5.0 | 13418 | 5.4 |
| 1985 | 11152 | 4.5 | 966 | 0.4 | 12118 | 4.9 | 13404 | 5.4 |
| 1986 | 11211 | 4.5 | 865 | 0.3 | 12076 | 4.8 | 13383 | 5.3 |
| 1987 | 11106 | 4.4 | 813 | 0.3 | 11919 | 4.7 | 13233 | 5.3 |
| 1988 | 11197 | 4.4 | 794 | 0.3 | 11991 | 4.7 | 13134 | 5.2 |
| 1989 | 10948 | 4.3 | 819 | 0.3 | 11767 | 4.6 | 12994 | 5.1 |
| 1990 | 10610 | 4.1 | 926 | 0.4 | 11536 | 4.5 | 12886 | 5.0 |
| 1991 | 10541 | 4.1 | 924 | 0.4 | 11465 | 4.5 | 13040 | 5.1 |
| 1992 | 10966 | 4.2 | 946 | 0.4 | 11912 | 4.6 | 13505 | 5.2 |
| 1993 | 8723 | 3.4 | 916 | 0.4 | 9639 | 3.7 | 12006 | 4.6 |
| 1994 | 8710 | 3.3 | 904 | 0.3 | 9614 | 3.7 | 12172 | 4.7 |
| 1995 | 8123 | 3.1 | 878 | 0.3 | 9001 | 3.4 | 11913 | 4.6 |
| 1996 | 8278 | 3.2 | 878 | 0.3 | 9156 | 3.5 | 12238 | 4.7 |
| 1997 | 5999 | 2.3 | 782 | 0.3 | 6781 | 2.6 | 10313 | 3.9 |
| 1998 | 5738 | 2.2 | 775 | 0.3 | 6513 | 2.5 | 10303 | 3.9 |
| 1999 | 6878 | 2.6 | 629 | 0.2 | 7507 | 2.9 | 11187 | 4.2 |
| 2000 | 7067 | 2.7 | 618 | 0.2 | 7685 | 2.9 | 11836 | 4.5 |
| 2001 | 7290 | 2.7 | 595 | 0.2 | 7885 | 3.0 | 12185 | 4.6 |
| 2002 | 7478 | 2.8 | 587 | 0.2 | 8065 | 3.0 | 12578 | 4.7 |
| 2003 | 7224 | 2.7 | 540 | 0.2 | 7764 | 2.9 | 12355 | 4.6 |
| 2004 | 6900 | 2.6 | 602 | 0.2 | 7502 | 2.8 | 12183 | 4.5 |
| 2005 | 6922 | 2.5 | 647 | 0.2 | 7569 | 2.8 | 12090 | 4.4 |
| 2006 | 6697 | 2.4 | 514 | 0.2 | 7211 | 2.6 | 12406 | 4.5 |

[^4]Figure 2 Sales of (i) manufactured and total ${ }^{1}$ cigarettes and (ii) all tobacco products Average per adult (aged 15 years and over) per day



[^5]Table 3 Manufactured cigarettes: percentage of total sales as filter cigarettes; sales-weighted average machine yields per cigarette of tar (SWAT) and nicotine (SWAN)

| Year | Filter |  | SWAT | SWAN |
| :---: | :---: | :---: | :---: | :---: |
|  | consumption | production |  |  |
|  | \% | \% | mg/cig | mg/cig |
| 1960 | 10.3 |  |  |  |
| 1961 | 12.8 |  |  |  |
| 1962 | 17.0 |  |  |  |
| 1963 | 21.0 |  |  |  |
| 1964 | 29.0 |  | 31 | 1.8 |
| 1965 |  |  | 29 | 1.75 |
| 1966 | 48.1 |  | 27 | 1.7 |
| 1967 | 54.5 |  | 28 | 2.0 |
| 1968 | 62.0 |  | 26 | 1.75 |
| 1969 | 67.0 |  | 25 | 1.7 |
| 1970 | 70.0 |  | 23 | 1.6 |
| 1971 | 74.9 |  | 23 | 1.6 |
| 1972 | 77.8 |  | 22 | 1.55 |
| 1973 | 80.4 |  | 21 | 1.55 |
| 1974 | 82.3 |  | 22 | 1.6 |
| 1975 | 82.0 |  | 21.4 |  |
| 1976 | 85.4 |  | 20.8 |  |
| 1977 | 87.6 |  | 18.7 |  |
| 1978 |  |  | 17.0 |  |
| 1979 | 89.0 |  | 15.7 |  |
| 1980 | 90.0 |  | 15.1 |  |
| 1981 | 91.0 |  |  |  |
| 1982 |  | 91.0 |  |  |
| 1983 |  | 91.8 |  |  |
| 1984 |  | 92.3 |  |  |
| 1985 |  | 92.5 |  |  |
| 1986 |  | 93.6 |  |  |
| 1987 |  | 94.0 |  |  |
| 1988 |  | 94.3 |  |  |
| 1989 |  | 95.5 |  |  |
| 1990 |  | 95.8 |  |  |
| 1991 |  | 95.9 |  |  |
| 1992 |  | 96.5 |  |  |
| 1993 |  | 96.1 |  |  |
| 1994 |  | 97.3 |  |  |
| 1995 |  | 97.6 |  |  |
| 1996 |  | 100.0 |  |  |
| 1997 |  | 100.0 |  |  |
| 1998 |  | 100.0 |  |  |
| 1999 |  | 100.0 |  |  |
| 2000 |  | 100.0 |  |  |
| 2001 |  | 100.0 |  |  |
| 2002 |  | 100.0 |  |  |
| 2003 |  | 100.0 |  |  |
| 2004 |  | 100.0 |  |  |

[^6]Table 4M Prevalence of smoking, males: selected surveys by age (continues on p. 18)


Table 4F Prevalence of smoking, females: selected surveys by age (continues on $p$. 19)


Table 4M (continued from p.16, continues on p. 20) Prevalence of smoking, males


Table 4F (continued from p.17, continues on p. 21) Prevalence of smoking, females


Table 4M (continued from p. 16, continues on p. 24) Prevalence of smoking, males

|  | Age Groups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $12 \quad 13$ | 14 | 15 | 16 | 17 | 18 | 19 | $\begin{gathered} 20 \\ - \\ 24 \end{gathered}$ | 25 - 29 | 30 - 34 | 35 - 39 | 40 - 44 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | 75 - 79 | 80+ |  |
| 847 U * |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 847 U R |  |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $84 \quad 7 \mathrm{U}$ U |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8488 U R |  |  |  |  | 14 | 4 |  | 28 | 37 | 40 | 37 | 40 | 34 | 38 | 37 | 42 | 29 | 27 | 23 | 22 | 33 |
| 8415 A R |  |  |  |  |  | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 28 |
| 8415 A A |  |  |  |  |  | 37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 37 |
| 857 U * |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 857 U R |  |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 857 l U U | 1 |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 858 U R |  |  |  |  | 16 | 6 |  | 29 | 23 | 35 | 36 | 36 | 36 | 38 | 36 | 27 | 24 | 26 | 25 | 16 | 30 |
| 8515 UCR |  |  |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 |
| 8515 A R |  |  |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 27 |
| 8515 A A |  |  |  |  |  | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 37 |
| 8516 UC R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 32 |
| 8516 UC A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 35 |
| 8516 A A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
| 867 U * |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 867 U R |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 867 U U U |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 868 U R |  |  |  |  | 13 | 3 |  | 21 | 27 | 34 | 36 | 37 | 35 | 30 | 33 | 39 | 20 | 26 | 24 | 15 | 29 |
| 8615 UC R |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 23 |
| 8615 A R |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 |
| 8615 A A |  |  |  |  |  | 39 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 35 |
| 8617 UC R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 23 |
| 8617 UC A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 |
| 8617 A A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 36 |
| 8619 U * | 1 |  | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8619 U R | 4 |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8619 U A | 6 |  | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 87 7 U * |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 877 U R |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 87 7 U U | 3 |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8788 U R |  |  |  |  | 13 | 3 |  | 19 | 26 | 36 | 34 | 33 | 38 | 35 | 35 | 31 | 27 | 29 | 21 | 25 | 29 |
| 8715 UC R |  |  |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 23 |
| 8715 A R |  |  |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 27 |
| 8715 A A |  |  |  |  |  | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 37 |
| 8728 UC * | 0 |  | 3 |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |
| 8728 UC R | 2 |  | 10 |  | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 13 |
| 887 U * |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 887 U R |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 887 U U U |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8888 U |  |  |  |  | 12 | 2 |  | 21 | 23 | 32 | 33 | 39 | 35 | 28 | 33 | 27 | 23 | 31 | 16 | 22 | 28 |
| 889 U R |  |  |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 27 |
| 889 U A |  |  |  |  |  | 34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 36 |
| 897 U * |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 897 U R |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 897 U U U | 10 |  |  | 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 898 U R |  |  |  |  | 12 | 2 |  | 18 | 23 | 31 | 31 | 30 | 34 | 30 | 23 | 30 | 19 | 22 | 19 | 23 | 26 |
| 8919 U * | 3 |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8919 U R | 5 |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8919 U A | 10 |  | 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 4F (continued from p. 17, continues on p. 23) Prevalence of smoking, females

|  | Age Groups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{\|c} \text { All } \\ \text { ages } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $12 \quad 13$ | 14 | 15 | 16 | 17 | 18 | 19 | $\begin{gathered} 20 \\ - \\ 24 \end{gathered}$ | $\begin{gathered} 25 \\ - \\ 29 \end{gathered}$ | $\begin{gathered} \hline 30 \\ - \\ 34 \end{gathered}$ | $\begin{gathered} 35 \\ - \\ 39 \end{gathered}$ | $\begin{gathered} 40 \\ - \\ 44 \end{gathered}$ | $\begin{gathered} 45 \\ - \\ 49 \end{gathered}$ | $\begin{gathered} 50 \\ - \\ 54 \end{gathered}$ | $\begin{gathered} 55 \\ - \\ 59 \end{gathered}$ | $\begin{gathered} \hline 60 \\ - \\ 64 \end{gathered}$ | $\begin{gathered} \hline 65 \\ - \\ 69 \end{gathered}$ | $\begin{gathered} 70 \\ - \\ 74 \end{gathered}$ | $\begin{gathered} \hline 75 \\ - \\ 79 \\ \hline \end{gathered}$ | 80+ |  |
| 847 U * |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 847 U R |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $84 \quad 7 \mathrm{U}$ U U |  |  |  | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 848 U ¢ |  |  |  |  | 22 |  |  | 37 | 37 | 38 | 35 | 36 | 35 | 28 | 28 | 26 | 17 | 11 | 6 | 3 | 28 |
| 8415 A R |  |  |  |  |  | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 29 |
| 8415 A A |  |  |  |  |  | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 37 |
| 857 U * |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 857 U R |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 857 U U | 1 |  |  | 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 858 U ( R |  |  |  |  | 21 | 1 |  | 38 | 40 | 36 | 37 | 35 | 36 | 28 | 23 | 21 | 14 | 12 | 8 | 3 | 27 |
| 8515 UC R |  |  |  |  |  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 27 |
| 8515 A R |  |  |  |  |  | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 29 |
| 8515 A A |  |  |  |  |  | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 36 |
| 8516 UC R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 34 |
| 8516 UC A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 39 |
| 8516 A A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 39 |
| 867 U * |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 867 U R |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 867 U U |  |  |  | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 868 U R |  |  |  |  | 21 | 1 |  | 31 | 38 | 40 | 35 | 37 | 28 | 28 | 20 | 20 | 20 | 12 | 9 | 4 | 27 |
| 8615 UC R |  |  |  |  |  | 33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 29 |
| 8615 A R |  |  |  |  |  | 33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 28 |
| 8615 A A |  |  |  |  |  | 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 36 |
| 8617 UC R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 26 |
| 8617 UC A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 |
| 8617 A A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 33 |
| 8619 U * | 2 |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8619 U R | 5 |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8619 U A | 6 |  | 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 87 7 U * |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 87 7 U R |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $87 \quad 7 \mathrm{U}$ U | 3 |  |  | 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8788 U R |  |  |  |  | 18 | 8 |  | 33 | 37 | 36 | 34 | 32 | 33 | 26 | 28 | 24 | 13 | 12 | 8 | 5 | 26 |
| 8715 UC R |  |  |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 27 |
| 8715 A R |  |  |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 27 |
| 8715 A A |  |  |  |  |  | 41 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 34 |
| 87 28 UC * | 0 |  | 8 |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9 |
| 8728 UC R | 3 |  | 21 |  | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 |
| 887 U * |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 887 U R |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $88 \quad 7 \mathrm{U}$ U U |  |  |  | 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $8888 \cup \mathrm{R}$ |  |  |  |  | 20 | 0 |  | 35 | 37 | 37 | 33 | 35 | 32 | 24 | 27 | 22 | 14 | 11 | 7 | 6 | 26 |
| 889 U |  |  |  |  |  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 26 |
| 88 9 U A |  |  |  |  |  | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 33 |
| 897 U * |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 897 U R |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $89 \quad 7 \mathrm{U}$ U U | 8 |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 898 U R |  |  |  |  | 21 | 1 |  | 30 | 33 | 34 | 33 | 39 | 34 | 25 | 27 | 18 | 17 | 15 | 8 | 5 | 26 |
| 8919 U * | 3 |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8919 U R | 5 |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8919 U A | 9 |  | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 4M (continued from p.20, continues on p. 24) Prevalence of smoking, males

|  | Age Groups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $12 \quad 13$ | $14 \quad 15$ | 16 | 17 | 18 | 19 | 20 - 24 | $\begin{gathered} 25 \\ - \\ 29 \end{gathered}$ | $\begin{gathered} 30 \\ - \\ 34 \end{gathered}$ | $\begin{gathered} 35 \\ - \\ 39 \end{gathered}$ | $\begin{gathered} 40 \\ - \\ 44 \\ \hline \end{gathered}$ | $\begin{gathered} 45 \\ - \\ 49 \end{gathered}$ | $\begin{gathered} 50 \\ - \\ 54 \end{gathered}$ | $\begin{gathered} 55 \\ - \\ 59 \end{gathered}$ | $\begin{gathered} 60 \\ - \\ 64 \\ \hline \end{gathered}$ | $\begin{gathered} 65 \\ - \\ 69 \end{gathered}$ | $\begin{gathered} 70 \\ - \\ 74 \\ \hline \end{gathered}$ | $\begin{gathered} 75 \\ - \\ 79 \end{gathered}$ | 80+ |  |
| 907 U * |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 907 U R |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 907 U U |  |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 908 U R |  |  |  | 11 |  |  | 16 | 20 | 32 | 28 | 34 | 35 | 32 | 32 | 25 | 26 | 23 | 17 | 10 | 26 |
| 9016 UCR |  |  |  |  |  |  |  |  | 4 |  |  |  |  |  |  |  |  |  |  | 31 |
| 9016 UC A |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  | 35 |
| 9016 A A |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  | 38 |
| 9017 UCR |  |  |  |  |  |  |  |  | 7 |  |  |  |  |  |  |  |  |  |  | 25 |
| 9017 UC A |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  | 31 |
| 9017 A A |  |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  |  |  |  | 32 |
| 917 U * |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 917 U R |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 917 l U U | 4 |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 918 U R |  |  |  | 13 |  |  | 21 | 22 | 28 | 36 | 33 | 36 | 31 | 26 | 20 | 28 | 22 | 9 | 16 | 26 |
| 927 U * |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 927 U R |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 927 U U U |  |  | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 928 U ¢ |  |  |  | 12 |  |  | 15 | 21 | 28 | 28 | 36 | 33 | 34 | 30 | 23 | 22 | 25 | 14 | 22 | 25 |
| 9218 A R |  |  |  |  |  |  |  |  |  | 29! |  |  |  |  |  |  |  |  |  |  |
| 9218 A A |  |  |  |  |  |  |  |  |  | 32! |  |  |  |  |  |  |  |  |  |  |
| 937 U * |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 937 U R |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 937 U U | 4 |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 938 U R |  |  |  | 12 |  |  | 15 | 20 | 25 | 26 | 30 | 30 | 30 | 31 | 26 | 21 | 17 | 17 | 9 | 23 |
| 9319 U * | 1 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9319 U R | 3 | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9319 U A | 7 | 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 947 U * |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 947 U R |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 947 U U U |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 948 U R |  |  |  | 16 |  |  | 15 | 16 | 21 | 20 | 29 | 29 | 35 | 28 | 20 | 14 | 18 | 13 | 16 | 22 |
| 9417 UCR |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  | 21 |
| 9417 UC A |  |  |  |  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  | 27 |
| 9417 A A |  |  |  |  |  |  |  |  | 9 |  |  |  |  |  |  |  |  |  |  | 29 |
| 9428 UC* | 2 | 6 |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |
| 9428 UC R | 4 | 13 |  | 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 |
| 957 U * |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 957 U R |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 957 U U U | 4 |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 958 U U |  |  |  | 8 |  |  | 17 | 12 | 18 | 27 | 29 | 29 | 31 | 27 | 23 | 23 | 20 | 16 | 13 | 22 |
| 9516 UCR |  |  |  |  |  |  |  |  | 9 |  |  |  |  |  |  |  |  |  |  | 26 |
| 9516 UC A |  |  |  |  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  | 29 |
| 9516 A A |  |  |  |  |  |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  | 31 |
| 9520 UC * |  | 1 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9520 UC A |  | 2 | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9521 MCU |  |  |  |  | 15 |  |  |  | 24 |  |  | 21 |  |  |  |  |  |  |  | 19 |
| 9521 TC U |  |  |  |  | 23 |  |  |  | 27 |  |  | 24 |  |  |  |  |  |  |  | 22 |
| 9521 A U |  |  |  |  | 23 |  |  |  | 27 |  |  | 27 |  |  |  |  |  |  |  | 24 |
| 967 U * |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 967 U R |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 967 U U |  |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 968 U R |  |  |  | 9 |  |  | 21 | 17 | 18 | 23 | 27 | 25 | 31 | 27 | 26 | 21 | 15 | 11 | 16 | 21 |
| 969 UCR |  |  |  |  |  |  |  |  |  |  |  | 8 |  |  |  |  |  |  |  |  |
| 969 U R |  |  |  |  | 14 |  |  |  | 5 |  |  |  |  |  |  |  |  |  | 3 | 19 |
| $969 \cup \begin{aligned} & \text { U }\end{aligned}$ |  |  |  |  | 34 |  |  |  | 3 |  | 6 |  |  |  |  |  |  |  | 5 | 30 |

Table 4F (continued from p.21, continues on p. 25) Prevalence of smoking, females

|  | Age Groups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{\|c} \text { All } \\ \text { ages } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1213 | 14 | 15 | 16 | 17 | 18 | 19 | $\begin{gathered} 20 \\ - \\ 24 \end{gathered}$ | $\begin{gathered} 25 \\ - \\ 29 \end{gathered}$ | $\begin{gathered} 30 \\ - \\ 34 \end{gathered}$ | $\begin{gathered} 35 \\ - \\ 39 \end{gathered}$ | $\begin{gathered} 40 \\ - \\ 44 \end{gathered}$ | $\begin{gathered} 45 \\ - \\ 49 \end{gathered}$ | $\begin{gathered} 50 \\ - \\ 54 \end{gathered}$ | $\begin{gathered} 55 \\ - \\ 59 \end{gathered}$ | $\begin{gathered} \hline 60 \\ - \\ 64 \end{gathered}$ | $\begin{gathered} \hline 65 \\ - \\ 69 \\ \hline \end{gathered}$ | $\begin{gathered} 70 \\ - \\ 74 \end{gathered}$ | $\begin{gathered} 75 \\ - \\ 79 \end{gathered}$ | 80+ |  |
| 907 U * |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 907 U R |  |  |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 907 l U U |  |  |  | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 908 U R |  |  |  |  | 14 |  |  | 30 | 31 | 34 | 38 | 34 | 37 | 26 | 23 | 22 | 20 | 14 | 11 | 3 | 26 |
| 9016 UCR |  |  |  |  |  |  |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  | 30 |
| 9016 UC A |  |  |  |  |  |  |  |  |  | 4 |  |  |  |  |  |  |  |  |  |  | 36 |
| 9016 A A |  |  |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  |  |  |  | 36 |
| 9017 UCR |  |  |  |  |  |  |  |  |  | 6 |  |  |  |  |  |  |  |  |  |  | 26 |
| 9017 UC A |  |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  | 31 |
| 9017 A A |  |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  | 32 |
| 917 U * |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 917 U R |  |  |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 917 U U U | 5 |  |  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 918 U R |  |  |  |  | 12 |  |  | 31 | 30 | 27 | 33 | 33 | 37 | 29 | 22 | 19 | 21 | 7 | 8 | 0 | 24 |
| 927 U * |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 927 U R |  |  |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 927 U U |  |  |  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9288 U |  |  |  |  | 16 |  |  | 25 | 31 | 40 | 32 | 32 | 41 | 26 | 25 | 23 | 19 | 16 | 8 | 9 | 27 |
| 9218 A R |  |  |  |  |  |  |  |  |  |  | 36 ! |  |  |  |  |  |  |  |  |  |  |
| 9218 A A |  |  |  |  |  |  |  |  |  |  | 40 |  |  |  |  |  |  |  |  |  |  |
| 937 U * |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 937 U R |  |  |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $93 \quad 7 \mathrm{U}$ U | 5 |  |  | 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9384 U |  |  |  |  | 17 |  |  | 21 | 26 | 25 | 29 | 32 | 33 | 29 | 26 | 21 | 19 | 16 | 8 | 4 | 23 |
| 9319 U * | 2 |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9319 U R | 4 |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9319 U A | 9 |  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 947 U * |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 947 U R |  |  |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $94 \quad 7 \mathrm{U}$ U |  |  |  | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9484 U |  |  |  |  | 18 |  |  | 23 | 23 | 32 | 35 | 28 | 32 | 34 | 25 | 21 | 15 | 12 | 10 | 3 | 24 |
| 9417 UCR |  |  |  |  |  |  |  |  |  | 5 |  | 1 |  |  |  |  |  |  |  |  | 28 |
| 9417 UC A |  |  |  |  |  |  |  |  |  | 4 |  | 4 |  |  |  |  |  |  |  |  | 32 |
| 9417 A A |  |  |  |  |  |  |  |  |  | 4 |  | 5 |  |  |  |  |  |  |  |  | 32 |
| 9428 UC* | 1 |  | 11 |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 9428 UC R | 4 |  | 23 |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 |
| 957 U * |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 957 U R |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $957 \mathrm{C}^{9} \mathrm{U}$ U | 4 |  |  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9588 U R |  |  |  |  | 20 |  |  | 22 | 28 | 28 | 29 | 32 | 29 | 33 | 21 | 19 | 15 | 15 | 8 | 6 | 24 |
| 9516 UCR |  |  |  |  |  |  |  |  |  | 5 |  | 34 |  |  |  |  |  |  |  |  | 29 |
| 9516 UC A |  |  |  |  |  |  |  |  |  | 4 |  | 0 |  |  |  |  |  |  |  |  | 33 |
| 9516 A A |  |  |  |  |  |  |  |  |  | 3 |  | 39 |  |  |  |  |  |  |  |  | 31 |
| 9520 UC * |  |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9520 UC A |  |  | 33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9521 MCU |  |  |  |  |  | 26 |  |  |  | 31 |  |  | 28 |  |  |  |  |  |  |  | 26 |
| 9521 TC U |  |  |  |  |  | 27 |  |  |  | 33 |  |  | 32 |  |  |  |  | 3 |  |  | 28 |
| 9521 A U |  |  |  |  |  | 27 |  |  |  | 33 |  |  | 32 |  |  |  |  | 3 |  |  | 28 |
| 967 U * |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 967 U R |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 967 U U U |  |  |  | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 968 U R |  |  |  |  | 17 |  |  | 28 | 23 | 27 | 30 | 26 | 28 | 31 | 23 | 20 | 20 | 13 | 9 | 8 | 23 |
| 969 UC R |  |  |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |
| 969 U R |  |  |  |  |  | 21 |  |  |  | 5 |  | 27 |  |  |  |  |  | 7 |  |  | 23 |
| 969 U A |  |  |  |  |  | 39 |  |  |  | 35 |  | 38 |  | 37 |  |  |  | 8 |  |  | 31 |

Table 4M (continued from p.22, continues on p. 26) Prevalence of smoking, males

|  | Age Groups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{\|c} \text { All } \\ \text { ages } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1213 | 14 | 15 | 16 | 17 | 18 | 19 | 20 - 24 | 25 - 29 | $\begin{gathered} \hline 30 \\ - \\ 34 \end{gathered}$ | $\begin{gathered} 35 \\ - \\ 39 \end{gathered}$ | 40 - 44 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | 75 - 79 | 80+ |  |
| 97 7 U * |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 977 U R |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 977 U U | 4 |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 7* U * |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 7* U R |  |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 7* U U |  |  |  | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 8 |  |  |  |  | 9 | 9 |  | 15 | 14 | 13 | 16 | 23 | 16 | 21 | 23 | 16 | 21 | 11 | 12 | 17 | 17 |
| 9719 A * | 2 |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9719 A R | 4 |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9719 A A | 10 |  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 987 U * |  |  |  | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 987 U R |  |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 987 U U U |  |  |  | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9888 U R |  |  |  |  | 8 | 8 |  | 12 | 13 | 13 | 17 | 19 | 20 | 21 | 25 | 23 | 20 | 16 | 14 | 11 | 17 |
| 997 U * |  |  |  | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 997 U R |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 997 U U | 3 |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 998 U R |  |  |  |  | 12 | 2 |  | 15 | 13 | 14 | 21 | 18 | 28 | 31 | 24 | 22 | 14 | 16 | 13 | 7 | 19 |
| 9917 UCR |  |  |  |  |  |  |  |  |  |  |  |  | 4 |  |  |  |  |  |  |  |  |
| 9920 UC* |  |  | 13 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9920 UC A |  |  | 29 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9921 U U |  |  |  |  |  | 16 |  |  |  | 19 |  |  | 23 |  |  |  |  |  |  |  | 19 |
| 007 U * |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 007 U R |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 007 U U |  |  |  | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0088 U |  |  |  |  | 9 | 9 |  | 16 | 13 | 15 | 14 | 19 | 19 | 21 | 25 | 21 | 21 | 9 | 16 | 6 | 17 |
| $017 U^{*}$ * |  |  |  | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 017 U R |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 017 l | 3 |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 01 8 $U$ |  |  |  |  | 8 | 8 |  | 18 | 16 | 14 | 18 | 22 | 21 | 24 | 28 | 16 | 20 | 17 | 5 | 3 | 18 |
| 0119 A * | 3 |  | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0119 A R | 5 |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0119 A A | 11 |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 027 U * |  |  |  | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 027 U R |  |  |  | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 027 U U U |  |  |  | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 8 $U$ |  |  |  |  | 8 | 8 |  | 13 | 12 | 14 | 14 | 17 | 19 | 25 | 25 | 23 | 18 | 9 | 10 | 12 | 16 |
| 0210 U R | 1 | 5 |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |
| 0221 MCR |  |  |  |  |  | 8 |  |  |  | 10 |  |  | 17 |  |  |  |  | 3 |  |  | 12 |
| 0221 TC R |  |  |  |  |  | 8 |  |  |  | 10 |  |  | 17 |  |  |  |  | 3 |  |  | 12 |
| 0221 A R |  |  |  |  |  | 8 |  |  |  | 10 |  |  | 19 |  |  |  |  | 4 |  |  | 13 |
| 0221 MCU |  |  |  |  |  | 20 |  |  |  | 14 |  |  | 25 |  |  |  |  | 4 |  |  | 18 |
| 0221 TC U |  |  |  |  |  | 20 |  |  |  | 14 |  |  | 27 |  |  |  |  | 5 |  |  | 19 |
| 0221 A U |  |  |  |  |  | 20 |  |  |  | 15 |  |  | 29 |  |  |  |  | 6 |  |  | 19 |
| 03 7 U * |  |  |  | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 037 U R |  |  |  | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $03 \quad 7 \mathrm{U}$ | 2 |  |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 038 U R |  |  |  |  | 8 | 8 |  | 13 | 15 | 12 | 13 | 19 | 26 | 25 | 21 | 18 | 20 | 17 | 9 | 6 | 17 |
| 0320 UC* |  |  | 8 | 8 | 11 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0320 UC A |  |  | 20 | 0 | 30 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0328 UC* | 0 |  | 2 |  | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| 0328 UC R | 1 |  | 4 |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |

Table 4F (continued from p.23, continues on p.27) Prevalence of smoking, females

|  | Age Groups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | All ages |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | $\begin{gathered} 20 \\ - \\ 24 \end{gathered}$ | $\begin{gathered} 25 \\ - \\ 29 \end{gathered}$ | $\begin{gathered} 30 \\ - \\ 34 \end{gathered}$ | $\begin{gathered} 35 \\ - \\ 39 \\ \hline \end{gathered}$ | $\begin{gathered} 40 \\ - \\ 44 \end{gathered}$ | $\begin{gathered} 45 \\ - \\ 49 \\ \hline \end{gathered}$ | $\begin{gathered} 50 \\ - \\ 54 \end{gathered}$ | $\begin{gathered} 55 \\ - \\ 59 \end{gathered}$ | $\begin{gathered} 60 \\ - \\ 64 \end{gathered}$ | $\begin{gathered} \hline 65 \\ - \\ 69 \end{gathered}$ | $\begin{gathered} 70 \\ - \\ 74 \\ \hline \end{gathered}$ | $\begin{gathered} 75 \\ - \\ 79 \\ \hline \end{gathered}$ | 80+ |  |
| 97 7 U * |  |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 977 U R |  |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 977 U U |  | 3 |  |  | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 7* U * |  |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 7* U R |  |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 7* U U |  |  |  |  | 37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9788 U R |  |  |  |  |  | 14 |  |  | 22 | 23 | 25 | 22 | 29 | 32 | 31 | 23 | 20 | 16 | 16 | 11 | 2 | 22 |
| 9719 A * |  | 2 |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9719 A R |  | 5 |  | 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9719 A A |  | 10 |  | 33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 987 U * |  |  |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 987 U R |  |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 987 U U |  |  |  |  | 34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $9888 \cup \mathrm{R}$ |  |  |  |  |  | 11 |  |  | 23 | 21 | 19 | 25 | 26 | 27 | 31 | 28 | 25 | 13 | 15 | 6 | 8 | 21 |
| 997 U * |  |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 997 U R |  |  |  |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $997 \cup \cup$ |  | 5 |  |  | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $998 \mathrm{U}^{9} \mathrm{R}$ |  |  |  |  |  | 13 |  |  | 21 | 18 | 16 | 23 | 25 | 26 | 28 | 24 | 19 | 16 | 13 | 6 | 6 | 19 |
| 9917 UCR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9920 UC * |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9920 UC A |  |  |  | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9921 U U |  |  |  |  |  |  | 26 |  |  |  | 36 |  |  | 30 |  |  |  |  |  |  |  | 25 |
| 007 U * |  |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 007 U R |  |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 007 U U |  |  |  |  | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $008 \cup \mathrm{R}$ |  |  |  |  |  | 18 |  |  | 19 | 19 | 22 | 22 | 27 | 22 | 27 | 32 | 22 | 17 | 13 | 11 | 6 | 21 |
| 017 U * |  |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 017 U R |  |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 017 U U |  | 5 |  |  | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 01 8 8 U R |  |  |  |  |  | 15 |  |  | 22 | 19 | 16 | 24 | 21 | 25 | 26 | 29 | 23 | 17 | 9 | 10 | 4 | 20 |
| 0119 A * |  | 4 |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0119 A R |  | 6 |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0119 A A |  | 12 |  | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 027 U * |  |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 027 U R |  |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 027 U U |  |  |  |  | 34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 8 U R |  |  |  |  |  | 20 |  |  | 18 | 16 | 15 | 22 | 28 | 25 | 21 | 26 | 17 | 19 | 11 | 10 | 7 | 19 |
| 0210 U R \| | 0 |  | 7 |  |  | 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9 |
| 0221 MCR |  |  |  |  |  |  | 22 |  |  |  | 25 |  |  | 33 |  |  |  |  |  |  |  | 21 |
| 0221 TC R |  |  |  |  |  |  | 22 |  |  |  | 25 |  |  | 35 |  |  |  |  |  |  |  | 23 |
| 0221 A R |  |  |  |  |  |  | 22 |  |  |  | 25 |  |  | 35 |  |  |  |  |  |  |  | 23 |
| 0221 MCU |  |  |  |  |  |  | 28 |  |  |  | 34 |  |  | 37 |  |  |  |  |  |  |  | 27 |
| 0221 TC U |  |  |  |  |  |  | 28 |  |  |  | 34 |  |  | 40 |  |  |  |  |  |  |  | 28 |
| 0221 A U |  |  |  |  |  |  | 28 |  |  |  | 34 |  |  | 40 |  |  |  |  |  |  |  | 28 |
| 037 U * |  |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 037 U R |  |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 037 U U |  | 3 |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 8 8 U R |  |  |  |  |  | 15 | 5 |  | 17 | 17 | 17 | 14 | 23 | 25 | 26 | 25 | 20 | 15 | 10 | 12 | 6 | 18 |
| 0320 UC * |  |  |  | 14 | 4 | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0320 UC A |  |  |  | 27 |  | 36 | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0328 UC* |  | 2 |  | 6 |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |
| 0328 UC R |  | 4 |  | 11 |  | 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 11 |

Table 4M (continued from p.24) Prevalence of smoking, males


| Source: | see Notes on sources of survey data, p. 62 | Frequency: | A = all smokers (including occasional) |
| :--- | :--- | :--- | :--- |
| Product: | MC = manufactured cigarettes | R regular or daily smokers |  |
|  | TC = total cigarettes (including hand-rolled) | U | = unspecified |
|  | UC = cigarettes (type unspecified) | $*$ | = refer to Notes on sources of survey data, p. 62 |
|  | A $=$ all products | All ages: | relates to ages reported; as given in original source |

Table 4F (continued from p.25) Prevalence of smoking, females

|  | Age Groups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | All ages |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $12 \quad 13$ | 14 | 15 | 16 | 17 | 18 | 19 | $\begin{gathered} \hline 20 \\ - \\ 24 \end{gathered}$ | $\begin{gathered} 25 \\ - \\ 29 \end{gathered}$ | $\begin{gathered} 30 \\ - \\ 34 \end{gathered}$ | $\begin{gathered} 35 \\ - \\ 39 \end{gathered}$ | $\begin{gathered} 40 \\ - \\ 44 \end{gathered}$ | $\begin{gathered} 45 \\ - \\ 49 \end{gathered}$ | $\begin{gathered} 50 \\ - \\ 54 \end{gathered}$ | $\begin{gathered} 55 \\ - \\ 59 \end{gathered}$ | $\begin{gathered} 60 \\ - \\ 64 \end{gathered}$ | $\begin{gathered} 65 \\ - \\ 69 \end{gathered}$ | $\begin{gathered} 70 \\ - \\ 74 \end{gathered}$ | $\begin{gathered} 75 \\ - \\ 79 \end{gathered}$ | 80+ |  |
| 047 U * |  |  |  | 10 |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 047 U R |  |  |  | 13 |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 047 U U |  |  |  | 30 |  | 38 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 048 U R |  |  |  |  | 13 |  |  | 16 | 15 | 19 | 17 | 20 | 26 | 24 | 21 | 18 | 19 | 8 | 8 | 8 | 18 |
| 049 U R |  |  |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 18 |
| 049 U A |  |  |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 26 |
| 0417 UC R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 18 |
| 0422 A R |  |  |  |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 |
| 0422 A A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 057 U * |  |  |  | 9 |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 057 U R |  |  |  | 13 |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 057 U U U |  |  |  | 30 |  | 41 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 8 U R |  |  |  |  | 9 |  |  | 15 | 15 | 15 | 18 | 23 | 23 | 24 | 26 | 18 | 22 | 12 | 13 | 8 | 18 |
| 0519 A * | 2 |  | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0519 A R | 3 |  | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0519 A A | 6 |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0521 MCR |  |  |  |  |  | 17 |  |  |  | 16 |  |  | 24 |  |  |  |  |  |  |  | 19 |
| 0521 TC R |  |  |  |  |  | 18 |  |  |  | 16 |  |  | 25 |  |  |  |  |  |  |  | 18 |
| 0521 A R |  |  |  |  |  | 18 |  |  |  | 16 |  |  | 25 |  |  |  |  |  |  |  | 18 |
| 0521 MCU |  |  |  |  |  | 31 |  |  |  | 16 |  |  | 26 |  |  |  |  |  |  |  | 21 |
| 0521 TC U |  |  |  |  |  | 31 |  |  |  | 16 |  |  | 28 |  |  |  |  |  |  |  | 22 |
| 0521 A U |  |  |  |  |  | 31 |  |  |  | 16 |  |  | 29 |  |  |  |  |  |  |  | 22 |
| 0522 A R |  |  |  |  |  |  | 16 |  |  |  | 16 |  |  |  |  |  |  |  |  |  | 17 |
| 0522 A A |  |  |  |  |  |  |  |  |  |  |  |  | 26 |  |  |  |  |  |  |  |  |
| 067 U * |  |  |  | 7 |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 067 U R |  |  |  | 10 |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 067 U U |  |  |  | 26 |  | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 8 U R |  |  |  |  | 12 |  |  | 16 | 18 | 13 | 19 | 16 | 21 | 24 | 24 | 18 | 12 | 14 | 4 | 5 | 17 |
| 0622 A R |  |  |  |  |  |  | 12 |  |  |  | 13 |  |  |  |  |  |  |  |  |  | 15 |
| 0622 A A |  |  |  |  |  |  |  |  |  |  |  |  | 25 |  |  |  |  |  |  |  |  |
| 077 U * |  |  |  | 7 |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 077 U R |  |  |  | 10 |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $07 \times 7 \mathrm{U}$ U |  |  |  | 30 |  | 41 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07 8 $U$ <br> 07   |  |  |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 15 |
| 0722 A R |  |  |  |  |  |  | 14 |  |  |  | 13 |  |  |  |  |  |  |  |  |  | 16 |
| 0722 A A |  |  |  |  |  |  |  |  |  |  |  |  | 24 |  |  |  |  |  |  |  |  |
| 087 U * |  |  |  | 8 |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 087 U R |  |  |  | 11 |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $08 \quad 7 \mathrm{U}$ U |  |  |  | 28 |  | 41 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0822 A R |  |  |  |  |  |  | 12 |  |  |  | 11 |  |  |  |  |  |  |  |  |  | 14 |
| 0822 A A |  |  |  |  |  |  |  |  |  |  |  |  | 25 |  |  |  |  |  |  |  |  |


| Source: | see Notes on sources of survey data, p. 62 | Frequency: | A = all smokers (including occasional) |
| :---: | :---: | :---: | :---: |
| Product: | MC = manufactured cigarettes |  | $\mathrm{R}=$ regular or daily smokers |
|  | TC = total cigarettes (including hand-rolled) | U | = unspecified |
|  | UC = cigarettes (type unspecified) | * | $=$ refer to Notes on sources of survey data, p. 62 |
|  | A = all products | All ages: | relates to ages reported; as given in original source |

Table 5M Number of cigarettes smoked per smoker per day, males: selected surveys by age
(continues on p. 30)


Table 5F Number of cigarettes smoked per smoker per day, females: selected surveys by age
(continues on p. 31)


Table 5M (continued from p. 28)
Number of cigarettes smoked per smoker per day, males


[^7]Table 5F (continued from p. 29)
Number of cigarettes smoked per smoker per day, females


[^8]Table 6M Number of cigarettes smoked per person per day, males: selected surveys by age; with percentage total sales (continues on p. 34)


Table 6F Number of cigarettes smoked per person per day, females: selected surveys by age; with percentage total sales (continues on p. 35)


Table 6M (continued from p. 32) Number of cigarettes smoked per person per day, males


Source: Product:

A = all products
$U=$ unspecified

Table 6F (continued from p. 35) Number of cigarettes smoked per person per day, females

-- = adjusted by original author

Table 7M Number of cigarettes smoked per person per day, sales-adjusted, males: selected surveys ${ }^{1}$ by age; with percentage total sales


1 Based on those surveys in Table 6 with data for both sexes and age range at least 21-64 (see Cigarette consumption per person, Methods p. 11)

Source: Product:

Notes on sources of survey data, p. 62
MC = manufactured cigarettes
TC = total cigarettes (including hand-rolled)
UC = cigarettes (type unspecified)
A = all products
$\mathrm{U}=$ unspecified
-- = adjusted by original author

Table 7F Number of cigarettes smoked per person per day, sales-adjusted, females: selected surveys ${ }^{1}$ by age; with percentage total sales


1 Based on those surveys in Table 6 with data for both sexes and age range at least 21-64 (see Cigarette consumption per person, Methods p. 11)

| Source: | See Notes on sources of survey data, p. 62 | * | = refer to Notes on sources of survey data, p. 62 |
| :--- | :--- | :--- | :--- |
| Product: | MC = manufactured cigarettes | All ages: | relates to ages reported; as given in original source |
|  | TC = total cigarettes (including hand-rolled) | \% Total sales: Adjustment factor used, estimated \% of total sales |  |
|  | UC = cigarettes (type unspecified) |  | of $M=$ manufactured or $T=$ total cigarette consumption |
|  | A = all products |  | implied by survey, sexes combined |

Table 8 Estimated ${ }^{1}$ prevalence of smoking and estimated ${ }^{1}$ number of cigarettes per person per day (unadjusted and sales-adjusted): summary of Tables 4, 6 and 7. Males and females aged 15 years and over

| Year | Source ${ }^{2}$ | Product ${ }^{3}$ | Prevalence ${ }^{4}$ |  |  |  |  |  | Number of cigarettes |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Manufactured cigarettes |  | Total cigarettes ${ }^{5}$ |  | All products ${ }^{6}$ |  | Unadjusted ${ }^{7}$ |  |  | Sales-adjusted ${ }^{8}$ |  |  |  |
|  |  |  |  |  | Numberl person/day | Total sales \% |  |  |  | tured | Total cigarettes ${ }^{9}$ numberl person/day |  |
|  |  |  | M | F |  |  |  | M | F | M | F | M | F | M | F | M | F |
| 1946 | 11 | U |  |  |  |  | 48 | 9 |  |  |  |  |  |  |  |
| 1951 | 24 | UC |  |  | 30 |  |  |  | 3.8 |  |  |  |  |  |  |
|  | 24 | A |  |  |  |  | 52 |  | 7.2 | 110 |  |  |  |  |  |
|  | 24 | UC+A |  |  | 31 |  | 58 |  |  |  |  |  |  |  |  |
| 1963 | 6 | UC+A |  |  | 32 | 20 | 47 | 20 | 3.4 | 1.7 | 65 |  |  | 5.2 | 2.6 |
|  | 6 | UC+A |  |  | 50 | 28 | 56 | 28 |  |  |  |  |  |  |  |
| 1969 | 1 | UC |  |  | 40 | 29 |  |  |  |  |  |  |  | ( 6.0 | 3.5 ) |
|  | 13 | $\cup$ |  |  |  |  | 54 | 32 |  |  |  |  |  |  |  |
| 1970 | 1 | UC |  |  | 39 | 30 |  |  |  |  |  |  |  | ( 5.8 | 3.7 ) |
| 1971 | 1 | UC |  |  | 37 | 30 |  |  |  |  |  |  |  | ( 5.6 | 3.6 ) |
|  | 2 | A |  |  |  |  | 55 | 34 |  |  |  |  |  |  |  |
|  | 3 | UC |  |  | 38 | 29 |  |  |  |  |  |  |  | ( 5.6 | 3.5 ) |
| 1972 | 1 | UC |  |  | 37 | 29 |  |  |  |  |  |  |  | ( 6.2 | 3.9 ) |
|  | 2 | A |  |  |  |  | 55 | 34 |  |  |  |  |  |  |  |
|  | 13 | $U$ |  |  |  |  | 49 | 33 |  |  |  |  |  |  |  |
| 1973 | 1 | UC |  |  | 37 | 29 |  |  |  |  |  |  |  | ( 5.2 | 3.3 ) |
|  | 2 | A |  |  |  |  | 56 | 35 |  |  |  |  |  |  |  |
|  | 4 | UC |  |  | 38 | 34 |  |  |  |  |  |  |  | ( 4.9 | 3.5 ) |
| 1974 | 1 | UC |  |  | 36 | 31 |  |  |  |  |  |  |  | ( 5.9 | 4.0 ) |
|  | 2 | A |  |  |  |  | 55 | 36 |  |  |  |  |  |  |  |
| 1975 | 1 | UC |  |  | 35 | 30 |  |  |  |  |  |  |  | ( 6.2 | 4.2 ) |
|  | 2 | A |  |  |  |  | 54 | 36 |  |  |  |  |  |  |  |
| 1976 | 1 | UC |  |  | 33 | 31 |  |  |  |  |  |  |  | ( 6.0 | 4.6 ) |
|  | 2 | A |  |  |  |  | 52 | 38 |  |  |  |  |  |  |  |
|  | 14 | UC+A |  |  | 34 | 30 | 40 | 30 |  |  |  |  |  | ( 6.2 | $4.4)$ |
|  | 14 | A |  |  |  |  | 48 | 36 |  |  |  |  |  |  |  |
| 1977 | 1 | UC |  |  | 32 | 28 |  |  |  |  |  |  |  | ( 5.8 | 4.1 ) |
|  | 2 | A |  |  |  |  | 50 | 34 |  |  |  |  |  |  |  |
|  | 8 | U |  |  |  |  | 39 | 30 |  |  |  |  |  |  |  |
|  | 13 | $\cup$ |  |  |  |  | 39 | 21 |  |  |  |  |  |  |  |
|  | 14 | A |  |  |  |  | 37 | 27 |  |  |  |  |  |  |  |
|  | 14 | A |  |  |  |  | 45 | 34 |  |  |  |  |  |  |  |
| 1978 | 1 | UC |  |  | 31 | 29 |  |  |  |  |  |  |  | ( 5.8 | $4.4)$ |
|  | 2 | A |  |  |  |  | 47 | 35 |  |  |  |  |  |  |  |
|  | 14 | A |  |  |  |  | 36 | 30 |  |  |  |  |  |  |  |
|  | 14 | A |  |  |  |  | 46 | 38 |  |  |  |  |  |  |  |
| 1979 | 1 | UC |  |  | 29 | 28 |  |  |  |  |  |  |  | ( 5.8 | 4.5 ) |
|  | 2 | A |  |  |  |  | 47 | 34 |  |  |  |  |  |  |  |
|  | 14 | UC+A |  |  | 29 | 28 | 35 | 28 |  |  |  |  |  | ( 5.8 | 4.4 ) |
|  | 14 | A |  |  |  |  | 43 | 34 |  |  |  |  |  |  |  |

Table 8 (continued)

| Year | Source ${ }^{2}$ | Product ${ }^{3}$ | Prevalence ${ }^{4}$ |  |  |  |  |  | Number of cigarettes |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Manufactured cigarettes |  | Tota ciga |  | All products ${ }^{6}$ |  | Unadjusted ${ }^{7}$ |  |  | Sales-adjusted ${ }^{8}$ |  |  |  |  |
|  |  |  |  |  | $\text { ettes }{ }^{5}$ | Numberl person/day |  | Total sales \% | Man ciga num per | ctured <br> es <br> I <br> day | Total cigarettes ${ }^{9}$ numberl person/day |  |  |
|  |  |  | M | F |  | M |  |  |  | F | M | F | M | F | M | F |  | M | F |
| 1980 | 1 | UC |  |  | 26 | 26 |  |  |  |  |  |  |  | ( | 5.6 | 4.6 ) |
|  | 8 | U |  |  |  |  | 36 | 28 |  |  |  |  |  |  |  |  |
|  | 9 | UC+U |  |  | 28 | 27 | 35 | 27 | 5.1 | 3.5 | 84 |  |  |  | 6.1 | 4.1 |
|  | 14 | UC+A |  |  | 25 | 23 | 30 | 23 |  |  |  |  |  | ( | 5.9 | 4.3 ) |
|  | 14 | A |  |  |  |  | 39 | 29 |  |  |  |  |  |  |  |  |
| 1981 | 1 | UC |  |  | 27 | 28 |  |  |  |  |  |  |  | ( | 5.4 | $4.4)$ |
|  | 8 | U |  |  |  |  | 33 | 26 |  |  |  |  |  |  |  |  |
|  | 14 | A |  |  |  |  | 29 | 27 |  |  |  |  |  |  |  |  |
|  | 14 | A |  |  |  |  | 36 | 32 |  |  |  |  |  |  |  |  |
| 1982 | 1 | UC |  |  | 28 | 26 |  |  |  |  |  |  |  | ( | 5.9 | 4.4 ) |
|  | 8 | U |  |  |  |  | 33 | 27 |  |  |  |  |  |  |  |  |
|  | 13 | $U$ |  |  |  |  | 30 | 30 |  |  |  |  |  |  |  |  |
|  | 14 | UC+A |  |  | 24 |  | 29 | 25 |  |  |  |  |  |  |  |  |
|  | 14 | A |  |  |  |  | 40 | 34 |  |  |  |  |  |  |  |  |
| 1983 | 1 | UC |  |  | 27 | 25 |  |  |  |  |  |  |  | ( | 5.6 | 4.2 ) |
|  | 8 | U |  |  |  |  | 31 | 26 |  |  |  |  |  |  |  |  |
|  | 14 | UC+A |  |  |  |  | 28 | 24 | 4.2 | 3.0 | 73 |  |  |  | 5.7 | 4.1 |
|  | 14 | A |  |  |  |  | 37 | 31 |  |  |  |  |  |  |  |  |
|  | 15 | A |  |  |  |  | 30 | 23 |  |  |  |  |  |  |  |  |
| 1984 | 8 | U |  |  |  |  | 33 | 27 |  |  |  |  |  |  |  |  |
|  | 15 | UC+A |  |  |  |  | 28 | 27 | 4.2 | 3.5 | 76 |  |  |  | 5.5 | 4.5 |
|  | 15 | A |  |  |  |  | 36 | 34 |  |  |  |  |  |  |  |  |
| 1985 | 8 | U |  |  |  |  | 30 | 26 |  |  |  |  |  |  |  |  |
|  | 15 | UC+A |  |  | 23 | 24 | 27 | 25 | 3.6 | 3.4 | 72 |  |  |  | 4.9 | 4.8 |
|  | 15 | A |  |  |  |  | 36 | 32 |  |  |  |  |  |  |  |  |
| 1986 | 8 | U |  |  |  |  | 28 | 26 |  |  |  |  |  |  |  |  |
|  | 15 | UC+A |  |  | 22 | 25 | 24 | $25$ | 3.4 | 3.5 | 72 |  |  |  | 4.7 | 4.9 |
|  | 15 | A |  |  |  |  | 34 | 32 |  |  |  |  |  |  |  |  |
| 1987 | 8 | U |  |  |  |  | 29 | 25 |  |  |  |  |  |  |  |  |
|  | 15 | UC+A |  |  | 23 | 24 | 26 | 24 | 4.0 | 3.2 | 75 |  |  |  | 5.3 | 4.2 |
|  | 15 | A |  |  |  |  | 35 | 30 |  |  |  |  |  |  |  |  |
| 1988 | 8 | U |  |  |  |  | 27 | 26 |  |  |  |  |  |  |  |  |
|  | 9 | UC+U |  |  |  |  | 26 | 25 | 3.9 | 3.3 | 75 |  |  |  | 5.1 | 4.4 |
|  | 9 | U |  |  |  |  | 36 | 32 |  |  |  |  |  |  |  |  |
| 1989 | 8 | U |  |  |  |  | 25 | 25 |  |  |  |  |  |  |  |  |
| 1990 | 8 | U |  |  |  |  | 25 | 25 |  |  |  |  |  | ( | 5.0 | 4.0 ) |
| 1991 | 8 | U |  |  |  |  | 25 | 23 |  |  |  |  |  | ( | 5.1 | $3.8)$ |
| 1992 | 8 | U |  |  |  |  | 25 | 25 |  |  |  |  |  | ( | 5.1 | 4.2 ) |
| 1993 | 8 | U |  |  |  |  | 23 | 22 |  |  |  |  |  | ( | 4.2 | 3.3 ) |

Table 8 (continued/2)


[^9]
## Table 8 (continued/3)

1 Surveys covering an age range of at least 21-64 are included. Any gaps in the data for ages 15-20 and 65 years and over are filled in by assumed extensions to the age distribution, given in Notes on sources of survey data, p. 62. Method: see Summary of adult smoking, Methods p. 13. Exceptionally, calculation is based on the All ages value from Table 4 in those surveys for which some agespecific data are not available (age groups marked as * in Table 4)
2 See Notes on sources of survey data, p. 62
3 Product: MC = manufactured cigarettes, TC = total cigarettes (including hand-rolled), UC = cigarettes (type unspecified), $\mathrm{A}=$ all products, $\mathrm{U}=$ unspecified. Frequency of smoking is indicated by: regular or daily smokers in normal type, all smokers (including occasional) in bold, unspecified in italics
4 From Table 4
5 This column includes prevalence of smoking classified as UC = cigarettes (type unspecified)
6 This column includes prevalence of smoking classified as $U=$ unspecified product
7 From Table 6
8 From Table 7, except data in parentheses, which are derived from the prevalence of smoking from Table 4 as described in Summary of adult smoking, Methods p. 13
9 Number of cigarettes classified as UC = cigarettes (type unspecified) has been adjusted to total cigarette sales and included in this column. From 1990, estimates derived from prevalence of smoking (all products or product unspecified) have also been included in this column, because few sources provide data directly in Table 7 and sales data suggest that smoking was primarily of cigarettes at that time.
10 Cigarettes or equivalent amount smoked in other forms.
11 Calculations based on 2006 sales and population.

Figure 3 Estimated prevalence of smoking of (i) manufactured cigarettes, (ii) total cigarettes and (iii) all tobacco products ${ }^{1}$; by year of survey. Males and females aged 15 years and over


Figure 3 (continued)



[^10]Figure 4 Estimated number of total cigarettes smoked per person per day, sales-adjusted; by year of survey.
Males and females aged 15 years and over


Source: Table 8

Table 9M Prevalence of snus use, males: selected surveys by age (continues on p. 46)


Table 9F Prevalence of snus use, females: selected surveys by age (continues on p. 47)


Table 9M (continued from p. 44, continues on p. 48) Prevalence of snus use, males

|  | Age Groups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{\|c} \text { All } \\ \text { ages } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1213 | 14 | 151 | 16 | 17 | 18 | 19 | 20 - 24 | 25 - 29 | \|c|c | 35 - 39 | 40 - 44 | 45 - 49 | $\begin{gathered} 50 \\ - \\ 54 \end{gathered}$ | 55 - 59 | \|c|c | 65 - 69 | 70 - 74 | 75 - 79 | 80+ |  |
| 917 S * |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 917 S R | 1 |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 917 S A | 2 |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 927 S * |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 927 S R |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 927 S A |  |  |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 937 S * |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 937 S R | 1 |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 937 S A | 2 |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 947 S * |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 947 S R |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 947 S A |  |  |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9417 S R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9428 S R | 1 |  | 7 |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 |
| 9428 S A | 2 |  | 12 |  | 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 11 |
| 957 S * |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 957 S R | 1 |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 957 S A | 2 |  |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9516 S U |  |  |  |  |  |  |  |  |  | 27 |  |  |  |  |  | 3 |  |  |  |  | 17 |
| 9521 S U |  |  |  |  |  | 13 |  |  |  | 7 |  |  | 16 |  |  |  |  | 6 |  |  | 10 |
| 967 S * |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 967 S R |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 967 S A |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 969 S R |  |  |  |  |  | 22 |  |  |  | 31 |  |  |  |  |  | 0 |  | 9 |  | 9 | 19 |
| 969 S A |  |  |  |  |  | 31 |  |  |  | 37 |  |  |  |  |  | 3 |  | 0 |  | 1 | 24 |
| 977 S * |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 7* S * |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 977 S R | 0 |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 7* S R |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 977 S A | 2 |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97 7* S A |  |  |  | 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 987 S * |  |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 987 S R |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 987 S A |  |  |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 997 S * |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 997 S R | 0 |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 997 S A | 1 |  |  | 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9917 S R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 007 S * |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 007 S R |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 007 S A |  |  |  | 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 017 S * |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 017 S R | 2 |  |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 017 S A | 3 |  |  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0119 S * | 4 |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0119 S R | 8 |  | 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0119 S A | 10 |  | 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 027 S * |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 027 S R |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 027 S A |  |  |  | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0221 S U |  |  |  |  |  | 10 |  |  |  | 28 |  |  | 21 |  |  |  |  | 8 |  |  | 18 |

Table 9F (continued from p. 45, continues on p. 49) Prevalence of snus use, females


Table 9M (continued from p. 46) Prevalence of snus use, males


| Source: | see Notes on sources of survey data, p. 62 | Frequency: | A = all snus users (including occasional) |
| :--- | :--- | :--- | :--- |
| Product: | $S=$ snus |  | R regular or daily snus users |
|  |  | U unspecified |  |

Table 9F (continued from p. 47)
Prevalence of snus use, females

|  | Age Groups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{\|c\|} \hline \text { All } \\ \text { ages } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1213 | 1415 | 16 | 17 | 18 | 19 | $\begin{gathered} 20 \\ - \\ 24 \end{gathered}$ | $\begin{gathered} 25 \\ - \\ 29 \end{gathered}$ | 30 - 34 | $\begin{gathered} 35 \\ - \\ 39 \end{gathered}$ | $\begin{gathered} 40 \\ - \\ 44 \end{gathered}$ | 45 - 49 | $\begin{gathered} 50 \\ - \\ 54 \end{gathered}$ | 55 - 59 | $\begin{gathered} 60 \\ - \\ 64 \end{gathered}$ | 65 - 69 | $\begin{gathered} 70 \\ - \\ 74 \end{gathered}$ | 75 - 79 | 80+ |  |
| 037 S * |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 037 S R | 0 |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $03 \quad 7 \mathrm{~S}$ A | 0 |  | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0328 S R | 0 | 0 |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| $03 \quad 28$ S A | 0 | 0 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| 047 S * |  |  | 2 |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 047 S R |  |  | 3 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 047 S A |  |  | 8 |  | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 049 S R |  |  |  |  | 4 |  |  |  | 4 | 4 |  |  | 4 |  | 1 |  |  |  | 1 | 3 |
| $04 \quad 9 \mathrm{~S}$ A |  |  |  |  | 11 |  |  |  | 6 | 6 |  |  | 7 |  | 2 |  |  |  | 1 | 5 |
| 04 17 S R <br> 04    |  |  |  |  |  |  |  |  | 4 | 1 |  |  | 1 |  | 5 |  |  |  |  | 11 |
| 0422 S R |  |  |  |  |  | 3 |  |  | 5 | 6 |  |  | 4 |  | 2 |  |  |  | 0 | 3 |
| 0422 S A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 057 S * |  |  | 2 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 057 S R |  |  | 3 |  | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0578 S A |  |  | 6 |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0519 S * | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0519 S R | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0519 S A | 3 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0521 S U |  |  |  |  | 3 |  |  |  | 6 |  |  | 4 |  |  |  |  |  |  |  | 3 |
| 0522 S R |  |  |  |  |  | 4 |  |  |  | 5 |  |  |  |  |  |  |  |  |  | 4 |
| 0522 S A |  |  |  |  |  |  |  |  |  |  |  | 7 |  |  |  |  |  |  |  |  |
| 067 S * |  |  | 2 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 067 S R |  |  | 3 |  | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $06 \quad 7 \mathrm{~S}$ A |  |  | 7 |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0622 S R |  |  |  |  |  | 4 |  |  |  | 5 |  |  |  |  |  |  |  |  |  | 4 |
| $0622 \mathrm{~S} \text { A }$ |  |  |  |  |  |  |  |  |  |  |  | 7 |  |  |  |  |  |  |  |  |
| 077 S * |  |  | 1 |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 077 S R |  |  | 2 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $07 \quad 7 \mathrm{~S}$ A |  |  | 5 |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07 8 S R <br> 07 22 S R |  |  |  |  | 6 |  |  |  | 6 | 7 |  |  | 4 |  | 2 |  |  |  | 0 | 4 |
| 0722 S R |  |  |  |  |  | 5 |  |  |  | 4 |  |  |  |  |  |  |  |  |  | 4 |
| 0722 S A |  |  |  |  |  |  |  |  |  |  |  | 7 |  |  |  |  |  |  |  |  |
| 087 S * |  |  | 0 |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 087 S R |  |  | 0 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $08 \quad 7 \mathrm{~S}$ A |  |  | 4 |  | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0822 S R |  |  |  |  |  | 5 |  |  |  | 4 |  |  |  |  |  |  |  |  |  | 4 |


| Source: | see Notes on sources of survey data, p. 62 |
| :--- | :--- |
| Product: | $\mathrm{S}=$ snus |

U
All ages:

Table 10M Prevalence of any tobacco use ${ }^{1}$, males: selected surveys by age (continues on p. 52)


Table 10F Prevalence of any tobacco use ${ }^{1}$, males: selected surveys by age (continues on $p$. 53)


Table 10M (continued from p. 50)

|  |  | Age Groups |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{\|c} \hline \text { All } \\ \text { ages } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 - 24 | $\begin{gathered} 25 \\ - \\ 29 \end{gathered}$ | $\begin{gathered} \hline 30 \\ - \\ 34 \end{gathered}$ | $\begin{gathered} 35 \\ - \\ 39 \end{gathered}$ | $\begin{gathered} 40 \\ - \\ 44 \end{gathered}$ | $\begin{gathered} 45 \\ - \\ 49 \end{gathered}$ | $\begin{gathered} 50 \\ - \\ 54 \end{gathered}$ | $\begin{gathered} 55 \\ - \\ 59 \end{gathered}$ | $\begin{gathered} 60 \\ - \\ 64 \end{gathered}$ | $\begin{gathered} 65 \\ - \\ 69 \end{gathered}$ | $\begin{gathered} 70 \\ - \\ 74 \end{gathered}$ | 75 - 79 | 80+ |  |
| 057 U | UA |  |  |  |  | 28 |  | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0519 A | RR |  | 4 |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0521 A | UU |  |  |  |  |  |  | 27 |  |  |  | 38 |  |  | 36 |  |  |  |  |  |  |  | 32 |
| 0522 A | R |  |  |  |  |  |  |  | 28 |  |  |  | 37 |  |  |  |  |  |  |  |  |  | 32 |
| 067 U | UA |  |  |  |  | 26 |  | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0622 A | R |  |  |  |  |  |  |  | 29 |  |  |  | 37 |  |  |  |  |  |  |  |  |  | 32 |
| 077 U | UA |  |  |  |  | 25 |  | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0722 A | R |  |  |  |  |  |  |  | 30 |  |  |  | 29 |  |  |  |  |  |  |  |  |  | 29 |
| 087 U | UA |  |  |  |  | 27 |  | 42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0822 A | R |  |  |  |  |  |  |  | 27 |  |  |  | 31 |  |  |  |  |  |  |  |  |  | 27 |

1 Smoking and/or snus use
Source: see Notes on sources of survey data, p. 62 Frequency: A = all (including occasional) Smoking product: MC = manufactured cigarettes TC = total cigarettes (including hand-rolled) UC $=$ cigarettes (type unspecified) A = all smoking products

* = refer to Notes on sources of survey data, p. 62

Table 10F (continued from p. 51) Prevalence of any tobacco use ${ }^{1}$, females


## 1 Smoking and/or snus use

Source: see Notes on sources of survey data, p. 62 Frequency: A =all (including occasional) Smoking product: MC = manufactured cigarettes

TC = total cigarettes (including hand-rolled)
UC = cigarettes (type unspecified)
A = all smoking products

* = refer to Notes on sources of survey data, p. 62

R = regular or daily
$\mathrm{U}=$ unspecified
When two frequency codes are shown, the first refers to smoking and the second to snus use; when only one is shown it refers to joint use. All ages: relates to ages reported; as given in original source

Table 11 Estimated ${ }^{1}$ prevalence of smoking, snus use and any tobacco use: summary of Tables 4, 9 and 10.
Males and females aged 15 years and over

| Year | Source ${ }^{2}$ | Product ${ }^{3}$ | Smoking prevalence ${ }^{4}$ |  |  |  |  |  | Snus use prevalence ${ }^{7}$ |  | Any tobacco use prevalence ${ }^{8}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Manufactured cigarettes |  | Total cigarettes ${ }^{5}$ |  | All products ${ }^{6}$ |  |  |  |  |  |
|  |  |  | M | F | M | F | M | F | M | F | M | F |
| 1946 | 11 | U |  |  |  |  | 48 | 9 |  |  |  |  |
| 1951 | 24 | UC |  |  | 30 |  |  |  |  |  |  |  |
|  | 24 | A |  |  |  |  | 52 |  |  |  |  |  |
|  | 24 | UC+A |  |  | 31 |  | 58 |  |  |  |  |  |
| 1955 | 26 |  |  |  |  |  |  |  | 12 |  |  |  |
| 1963 | 6 | UC+A |  |  | 32 | 20 | 47 | 20 |  |  |  |  |
|  | 6 | UC+A |  |  | 50 | 28 | 56 | 28 |  |  |  |  |
| 1969 | 1 | UC |  |  | 40 | 29 |  |  |  |  |  |  |
|  | 13 | $U$ |  |  |  |  | 54 | 32 |  |  |  |  |
|  | 27 |  |  |  |  |  |  |  | 12 |  |  |  |
| 1970 | 1 | UC |  |  | 39 | 30 |  |  |  |  |  |  |
|  | 27 |  |  |  |  |  |  |  | 15 |  |  |  |
| 1971 | 1 | UC |  |  | 37 | 30 |  |  |  |  |  |  |
|  | 2 | A |  |  |  |  | 55 | 34 |  |  |  |  |
|  | 3 | UC |  |  | 38 | 29 |  |  |  |  |  |  |
|  | 27 |  |  |  |  |  |  |  | 16 |  |  |  |
| 1972 | 1 | UC |  |  | 37 | 29 |  |  |  |  |  |  |
|  | 2 | A |  |  |  |  | 55 | 34 |  |  |  |  |
|  | 13 | $U$ |  |  |  |  | 49 | 33 |  |  |  |  |
|  | 27 |  |  |  |  |  |  |  | 16 |  |  |  |
| 1973 | 1 | UC |  |  | 37 | 29 |  |  |  |  |  |  |
|  | 2 | A |  |  |  |  | 56 | 35 |  |  |  |  |
|  | 4 | UC |  |  | 38 | 34 |  |  |  |  |  |  |
| 1974 | 1 | UC |  |  | 36 | 31 |  |  |  |  |  |  |
|  | 2 | A |  |  |  |  | 55 | 36 |  |  |  |  |
| 1975 | 1 | UC |  |  | 35 | 30 |  |  |  |  |  |  |
|  | 2 | A |  |  |  |  | 54 | 36 |  |  |  |  |
| 1976 | 1 | UC |  |  | 33 | 31 |  |  |  |  |  |  |
|  | 2 | A |  |  |  |  | 52 | 38 |  |  |  |  |
|  | $14$ | UC+A |  |  | 34 | 30 | 40 | $30$ |  |  |  |  |
|  | 14 | A |  |  |  |  | 48 | 36 |  |  |  |  |
| 1977 | 1 | UC |  |  | 32 | 28 |  |  |  |  |  |  |
|  | 2 | A |  |  |  |  | 50 | 34 |  |  |  |  |
|  | 8 | U |  |  |  |  | 39 | 30 |  |  |  |  |
|  | 13 | $U$ |  |  |  |  | 39 | 21 |  |  |  |  |
|  | 14 | A |  |  |  |  | 37 | 27 |  |  |  |  |
|  | 14 | A |  |  |  |  | 45 | 34 |  |  |  |  |
| 1978 | 1 | UC |  |  | 31 | 29 |  |  |  |  |  |  |
|  | 2 | A |  |  |  |  | 47 | 35 |  |  |  |  |
|  | 14 | A |  |  |  |  | 36 | 30 |  |  |  |  |
|  | 14 | A |  |  |  |  | 46 | 38 |  |  |  |  |
| 1979 | 1 | UC |  |  | 29 | 28 |  |  |  |  |  |  |
|  | 2 | A |  |  |  |  | 47 | 34 |  |  |  |  |
|  | 14 | UC+A |  |  | 29 | 28 | 35 | $28$ |  |  |  |  |
|  | 14 | A |  |  |  |  | 43 | 34 |  |  |  |  |

Table 11 (continued)

| Year | Source ${ }^{2}$ | Product ${ }^{3}$ | Smoking prevalence ${ }^{4}$ |  |  |  |  |  | Snus use prevalence ${ }^{7}$ |  | Any tobacco use prevalence ${ }^{8}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Manufactured cigarettes |  | Total cigarettes ${ }^{5}$ |  | All products ${ }^{6}$ |  |  |  |  |  |
|  |  |  | M | F | M | F | M | F | M | F | M | F |
| 1980 | 1 | UC |  |  | 26 | 26 |  |  |  |  |  |  |
|  | 8 | U |  |  |  |  | 36 | 28 |  |  |  |  |
|  | 9 | UC+U |  |  | 28 | 27 | 35 | 27 | 16 |  | 46 |  |
|  | 14 | UC+A |  |  | 25 | 23 | 30 | 23 |  |  |  |  |
|  | 14 | A |  |  |  |  | 39 | 29 |  |  |  |  |
| 1981 | 1 | UC |  |  | 27 | 28 |  |  |  |  |  |  |
|  | 8 | U |  |  |  |  | 33 | 26 |  |  |  |  |
|  | 14 | A |  |  |  |  | 29 | 27 |  |  |  |  |
|  | 14 | A |  |  |  |  | 36 | 32 |  |  |  |  |
| 1982 | 1 | UC |  |  | 28 | 26 |  |  |  |  |  |  |
|  | 8 | U |  |  |  |  | 33 | 27 |  |  |  |  |
|  | 13 | $U$ |  |  |  |  | 30 | 30 |  |  |  |  |
|  | 14 | UC+A |  |  | 24 |  | 29 | 25 | 14 |  |  |  |
|  | 14 | A |  |  |  |  | 40 | 34 |  |  |  |  |
| 1983 | 1 | UC |  |  | 27 | 25 |  |  |  |  |  |  |
|  | 8 | U |  |  |  |  | 31 | 26 |  |  |  |  |
|  | 14 | UC+A |  |  |  |  | 28 | 24 | 13 |  |  |  |
|  | 14 | A |  |  |  |  | 37 | 31 |  |  |  |  |
|  |  | A |  |  |  |  | 30 | 23 |  |  |  |  |
| 1984 | 8 | U |  |  |  |  | 33 | 27 |  |  |  |  |
|  | 15 | UC+A |  |  |  |  | 28 | 27 |  |  |  |  |
|  | 15 | A |  |  |  |  | 36 | 34 |  |  |  |  |
| 1985 | 8 | U |  |  |  |  | 30 | 26 |  |  |  |  |
|  | 15 | UC+A |  |  | 23 | 24 | 27 | 25 | 18 | 1 |  |  |
|  | 15 | A |  |  |  |  | 36 | 32 | 24 | 1 |  |  |
| 1986 | 8 | U |  |  |  |  | 28 | 26 |  |  |  |  |
|  | 15 | UC+A |  |  | 22 | 25 | 24 | 25 | 18 | 1 | 40 | 25 |
|  | 15 | A |  |  |  |  | 34 | 32 | 23 | 2 | 48 | 34 |
| 1987 | 8 | U |  |  |  |  | 29 | 25 |  |  |  |  |
|  | 15 | UC+A |  |  | 23 | 24 | 26 | 24 | 16 | 1 | 39 | 24 |
|  | 15 | A |  |  |  |  | 35 | 30 | 21 | 1 | 46 | 31 |
| 1988 | 8 | U |  |  |  |  | 27 | 26 |  |  |  |  |
|  | 9 | U |  |  |  |  | 26 | 25 | 16 | 1 | 37 | 25 |
|  | 9 | U |  |  |  |  | 36 | 32 | 21 | 1 | 41 | 26 |
| 1989 | 8 | U |  |  |  |  | 25 | 25 |  |  |  |  |
| 1990 | 8 | U |  |  |  |  | 25 | 25 |  |  |  |  |
| 1991 | 8 | U |  |  |  |  | 25 | 23 |  |  |  |  |
| 1992 | 8 | U |  |  |  |  | 25 | 25 |  |  |  |  |
| 1993 | 8 | U |  |  |  |  | 23 | 22 |  |  |  |  |

Table 11 (continued/2)

| Year | Source ${ }^{2}$ | Product ${ }^{3}$ | Smoking prevalence ${ }^{4}$ |  |  |  |  |  | Snus use prevalence ${ }^{7}$ |  | Any tobacco use prevalence ${ }^{8}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Manufactured cigarettes |  | Total cigarettes ${ }^{5}$ |  | All products ${ }^{6}$ |  |  |  |  |  |
|  |  |  | M | F | M | F | M | F | M | F | M | F |
| 1994 | 8 | U |  |  |  |  | 21 | 23 |  |  |  |  |
| 1995 | 8 | U |  |  |  |  | 21 | 23 |  |  |  |  |
|  | 21 | MC | 19 | 26 |  |  |  |  |  |  |  |  |
|  | 21 | TC + A |  |  | 22 | 28 | 24 | 28 | 10 | 1 | 30 | 29 |
| 1996 | 8 | U |  |  |  |  | 21 | 22 |  |  |  |  |
|  | 9 | UC+U |  |  | 17 | 22 | 19 | 22 | 20 | 1 | 34 | 22 |
|  | 9 | U |  |  |  |  | 30 | 30 | 24 | 2 | 38 | 23 |
| 1997 | 8 | U |  |  |  |  | 16 | 21 |  |  |  |  |
| 1998 | 8 | U |  |  |  |  | 17 | 20 |  |  |  |  |
| 1999 | 8 | U |  |  |  |  | 18 | 19 |  |  |  |  |
|  | 21 | $U$ |  |  |  |  | 19 | 25 |  |  |  |  |
| 2000 | 8 | U |  |  |  |  | 16 | 20 |  |  |  |  |
| 2001 | 8 | U |  |  |  |  | 17 | 19 |  |  |  |  |
| 2002 | 8 | U |  |  |  |  | 16 | 18 |  |  |  |  |
|  | 21 | MC+TC+A | 12 | 21 | 12 | 22 | 13 | 22 |  |  |  |  |
|  | 21 | $M C+T C+A$ | 18 | 26 | 19 | 28 | 20 | 28 | 17 | 1 | 33 | 29 |
| 2003 | 8 | U |  |  |  |  | 16 | 18 |  |  |  |  |
| 2004 | 8 | U |  |  |  |  | 15 | 17 |  |  | 33 | 18 |
|  | 8 | U |  |  |  |  |  |  |  |  | 37 | 20 |
|  | 9 | UC+U |  |  |  |  | 14 | 17 | 23 | 3 |  |  |
|  | 9 | U |  |  |  |  | 25 | 25 | 26 | 5 |  |  |
|  | 22 | A |  |  |  |  | 14 | 18 | 21 | 3 | 32 | 21 |
|  | 22 | A |  |  |  |  | 25 | 27 | 26 | 6 |  |  |
| 2005 | 8 | U |  |  |  |  | 14 | 17 |  |  |  |  |
|  | 21 |  | 12 | 18 |  |  |  |  |  |  |  |  |
|  | 21 | TC+A |  |  | 14 | 18 | 14 | 18 |  |  |  |  |
|  | 21 | $M C+T C+A$ | 15 | 21 | 17 | 22 | 17 | 22 | 17 | 4 | 32 | 25 |
|  | 22 | A |  |  |  |  | 12 | 16 | 21 | 3 | 31 | 19 |
|  | 22 | A |  |  |  |  | 25 | 25 | 27 | 7 |  |  |
| 2006 | 8 | U |  |  |  |  | 13 | 16 |  |  |  |  |
|  | 22 | A |  |  |  |  | 13 | 15 | 21 | 4 | 31 | 18 |
|  | 22 | A |  |  |  |  | 24 | 24 | 26 | 7 |  |  |
| 2007/9 | 8 | U |  |  |  |  | 13 | 15 | 21 |  |  |  |
|  | 22 | A |  |  |  |  | 12 | 16 | 18 | 3 | 29 | 18 |
|  | 22 | A |  |  |  |  | 24 | 23 | 26 | 7 |  |  |
| 2008/9 | 22 | A |  |  |  |  | 11 | 13 | 18 | 3 | 27 | 17 |
|  | 22 | A |  |  |  |  | 22 | 24 |  |  |  |  |

[^11]
## Table 11 (continued/3)

1 Surveys covering an age range of at least 21-64 are included. Any gaps in the data for ages 15-20 and 65 years and over are filled in by assumed extensions to the age distribution, given in Notes on sources of survey data, p. 62. Method is equivalent to that used for Table 8: see Summary of adult smoking, Methods p. 13. Exceptionally, calculation is based on the All ages value from Table 4 or 10 in those surveys for which some age-specific data are not available (age groups marked as * in Tables 4 and 10).
2 See Notes on sources of survey data, p. 62.
3 Product refers to the data in the Smoking prevalence columns: $M C=$ manufactured cigarettes, $T C=$ total cigarettes (including handrolled), UC = cigarettes (type unspecified), $\mathrm{A}=$ all products, $\mathrm{U}=$ unspecified. Frequency of smoking is indicated by: regular or daily smokers in normal type, all smokers (including occasional) in bold, unspecified in italics. The smoking element of the data in the Any tobacco use prevalence columns is always A = all products. Frequency of snus use or any tobacco use is usually the same as that shown for smoking (see Tables 9 and 10 for details).
4 From Table 4. These columns are the same as in Table 8.
5 This column includes prevalence of smoking classified as UC = cigarettes (type unspecified).
6 This column includes prevalence of smoking classified as $U=$ unspecified product.
7 From Table 9
8 From Table 10
9 Calculations based on 2006 sales and population.

Figure 5 Estimated prevalence of snus use, by year of survey. Males and females aged 15 years and over


[^12]Figure 6 Estimated prevalence of any tobacco use ${ }^{1}$, by year of survey. Males and females aged 15 years and over


1 Smoking and/or snus use
Source: Table 11

Notes

## Notes on sources of sales data

The data presented in the tables and figures were obtained from several sources, details of which are given below, together with estimations and related assumptions. Full citations of the sources are given on p. 76 under References.

## Snus

Snus is a form of moist snuff traditionally associated with Sweden. It is finely cut non-fermented moist snuff, available loose or portion-packed. It consists of finely ground dry tobacco (Kentucky and Virginia tobacco), mixed with aromatic substances, salts (sodium chloride), water, humidifying agents and chemical buffering agents (sodium carbonate). Portion-packed snus was introduced in the 1970s. The snus portion or a pinch ("dip") of loose snus is placed inside the upper lip. (International Agency for Research on Cancer (2007), Rodu et al (2002), Swedish Match (2009b))

Oral snuff is banned in the EU except for Sweden where a derogation was granted (ASPECT (Analysis of the Science and Policy for European Control of Tobacco) Consortium (2004)).

## Sales data before 1920

## Nordlund (2005)

Snus, pipe and cigars became popular during the 1700s. During the 1800s, there was a change from dry snuff taken nasally to moist snuff placed in the lip. Production of moist snuff was 500 tonnes in 1830, 1700 tonnes in 1860 and 6000 tonnes in 1912. It peaked in 1919 at 7000 tonnes, equivalent to 1.7 kg per adult (age $15+$ ). Other products combined (cigarettes, cigars and cigarillos) amounted to 1500 tonnes in 1912.

Sales data 1920-1973
RP6 (Lee (1975))
Data by weight, originally given to nearest 100000 pounds, have been converted to tonnes and given to the nearest 10 tonnes ( $100000 \mathrm{lbs}=45.359$ tonnes).
Notes as given in RP6:
(a) Details of the number and weight of cigarettes, cigars and cigarillos and of the weight of smoking tobacco, chewing tobacco and snuff consumed were obtained from the Annual Reports of the Swedish Tobacco Monopoly (now the Swedish Tobacco Company).
(b) Figures for cigarette consumption per adult in 1972 and 1973 have been corrected for the effect of hoarding prior to an increase in cigarette tax on $1^{\text {st }}$ January, 1973.
All Swedish tobacco production plants were nationalized and a tobacco monopoly formed in 1915. The import and sales monopoly was abolished in 1961, and the manufacturing monopoly in 1967. Most pre-war cigarettes contained oriental tobacco mixtures, and the first American blend cigarette was introduced in 1947. (Swedish Match (accessed March 2009a))

## Sales data for 1974 onwards

Statistiska Centralbyrån (SCB Statistics Sweden) (successive editions), Wicklin (1998) Data for cigarettes, cigars and cigarillos in numbers, and for smoking and chewing tobacco and for snus are taken from SCB (successive editions). Up to 1997, data for cigarettes, cigars and cigarillos by weight are taken from Wicklin (1998). Wicklin stated that the weight had been estimated on the basis of 0.65 g per cigarette and 2 g per cigar or cigarillo, which he described as "conventional conversion rates" based on "industry based information ... not the results of objective tests". The weights for cigars and cigarillos seem in fact to correspond to 2 g per cigar and 1 g per cigarillo. From 1998 onwards, we use conversion factors of 0.65 g per cigarette and 1.3 g per cigar or cigarillo.

Data for cross-border sales of pipe and rolling tobacco to Norway (Table 1.2, 1974-1997) are from Wicklin (1998). They are included in the overall category of smoking and chewing tobacco, but have been excluded from the calculated total weight for those years. It was also reported by

Norwegian News Digests (2004) that cross-border purchases of hand-rolling tobacco by Norwegians in Sweden and Finland increased by $36 \%$ in 2004, to 530 tonnes, following a tax increase in Norway. In 1998, legal tax-free imports by tourists were estimated at 2 billion pieces (Joossens (1999))
Wicklin (1998) also gave data on sales of chewing tobacco separately (not shown); these increased from 15 tonnes in 1974 to 24 tonnes in 1983 then decreased to 12 tonnes in 1997.

Snus sales were affected when "tobacco tax was increased twice, in January 2006 and 2007, by a total of 173 percent. The tax increases generated significant hoarding, an increase in tax-free sales and a switch from loose snus to portion-packed snus. Hoarding in December 2006 is estimated to have amounted to approximately 13 million cans, while hoarding in December 2007 is estimated at about 5 million cans." (Swedish Match (accessed March 2009c))
Around 1999-2001, menthol cigarettes accounted for $12 \%$ of the total cigarette market (Giovino et al (2004) quoting ERC Group PLC (1999, 2001)).

## Estimates of smuggling

According to Merriman et al (2000) quoting estimates by 'expert sources', smuggling represented $2 \%$ of domestic sales in 1995. Joossens and Raw (2003) quoting the Swedish National Police gave the same figure for duty not paid cigarettes in 1996. Tobacco tax on cigarettes was increased in 1997 by a total of $63 \%$, which led to an increase in black market sales at the expense of the legitimate trade. Taxes were reduced by $30 \%$ the following year (Swedish Match ((accessed March 2009)a)).

For 2004, recorded cigarette sales were estimated to account for $90 \%$ of consumption in Sweden. (Centralförbundet för alkohol- och narkotikaupplysning (CAN) (2008)), while the following year, smuggled cigarettes were estimated to represent $1.9 \%$ of legal sales (Shafey et al (2009) quoting Euromonitor International (2007))
Seizures by Tullverkets (Customs Service) were as follows (cigarettes, millions):

| 1970 | 2 | 1980 | 3 | 1990 | 2 | 2000 | 45 |
| :--- | :--- | ---: | :--- | :--- | :--- | :--- | :--- |
| 1971 | 2 | 1981 | 2 | 1991 | 3 | 2001 | 48 |
| 1972 | 3 | 1982 | 2 | 1992 | 4 | 2002 | 27 |
| 1973 | 3 | 1983 | 1 | 1993 | 6 | 2003 | 74 |
| 1974 | 3 | 1984 | 1 | 1994 | 5 | 2004 | 23 |
| 1975 | 4 | 1985 | 1 | 1995 | 6 | 2005 | 17 |
| 1976 | 4 | 1986 | 1 | 1996 | 17 | 2006 | 10 |
| 1977 | 3 | 1987 | 1 | 1997 | 39 | 2007 | 32 |
| 1978 | 3 | 1988 | 1 | 1998 | 46 |  |  |
| 1979 | 3 | 1989 | 2 | 1999 | 32 |  |  |
| Source: CAN (2008) |  |  |  |  |  |  |  |

## Estimates of numbers of hand-rolled cigarette for 1950-2006

We have taken as our estimate of hand-rolled cigarette consumption $45 \%$ of pipe and hand-rolling tobacco sales before 1980, an increasing proportion for 1981-1989 (see table below) and $80 \%$ for 1990 onwards, at 1 g per cigarette. From 1974 onwards, this estimate was based on sales excluding cross-border trade, and from 1998 onwards, the crossborder trade and sales of chewing tobacco were assumed to have continued at their 1997 level.

There is little evidence on which to base estimates of hand-rolled cigarette consumption before 1980. Mørck et al (1982) stated that 'hand-rolled cigarettes account for only 4-5\% of the overall cigarette market in 1980'. Assuming 1 g per hand-rolled cigarette, this represented approximately $45 \%$ of pipe and hand-rolling tobacco. This agrees with data from Svenska Tobaks AB for handrolling tobacco and pipe tobacco separately, available from 1981-1989, but these data, and data for cigarette papers and filters from 1984 (see table below), suggest that consumption of hand-rolled cigarettes rose during the 1980s, both absolutely and relative to other smoking products. However, these data may give a distorted picture since they include border trade to Norway where handrolled cigarettes are a major product. Assuming that all cross-border sales comprised hand-rolling tobacco (rather than pipe), and excluding them from the calculation, then hand-rolling as a percentage of pipe and hand-rolling can be calculated as shown below:
\(\left.$$
\begin{array}{cccc}\text { Year } & \begin{array}{c}\text { Hand-rolling } \\
\text { tobacco }\end{array} & \begin{array}{c}\text { Hand-rolling tobacco } \\
\text { as \% of pipe and } \\
\text { hand-rolling tobacco* }\end{array} & \begin{array}{c}\text { Cigarette papers } \\
\text { and filters }\end{array}
$$ <br>

(million pieces)\end{array}\right]\)| 1981 |
| :--- |

Data on cross-border sales are available only for certain years. Before 1974, the cross-border trade is assumed to have been fairly small so that the estimates of hand-rolled cigarettes are not seriously affected. However, for recent years, the only available data (that cross-border purchases of hand-rolling tobacco by Norwegians in Sweden and Finland combined amounted to 530 tonnes in 2004, see Sales data for 1974 onwards above) imply that it was substantial. We assume that cross-border trade continued at its 1997 level, but this may still overestimate hand-rolled cigarettes.

The Coresta task force on roll-your-own (fine cut) tobacco (1999) reported that, according to the latest available data, $18 \%$ of consumer-made cigarettes were made by simple hand-rolling, $22 \%$ by machine-rolling and $60 \%$ by tubing, with $20 \%$ using loose filters. They also reported a 1995 Coresta study involving 210 consumers in 3 countries making cigarettes using pre-made filter tubes; the Swedish consumers made cigarettes containing an average of 990 mg of tobacco.

## Plain/Filter cigarette sales

Consumption 1960-1981: Maxwell, Jr. (Successive years)
Production 1982-2004: US Department of Agriculture (accessed May 2009)
The first filter cigarette brand was introduced in 1936. (Swedish Match (accessed March 2009a))

## Tar and nicotine machine yields of cigarettes

1964-1974: Hjern (1976)
1975-1980: Mørck et al (1982)
Hjern (1976) gives the sales-weighted mean of domestic brands which made up $80-85 \%$ of the total cigarette market; data have been extracted from a graph. Mørck et al (1982) quote the Swedish tobacco industry.

Lundh et al (1977) give details of ten popular cigarette brands in 1975: tar range 12-25 mg, nicotine range $1.0-1.9 \mathrm{mg}$, weight range $0.61-0.91 \mathrm{~g}$.
The tar yield per cigarette was limited by EC directive to 15 mg by the end of 1992 , and to 12 mg by the end of 1997; nicotine yield was limited to 1.3 mg (Harkin et al (1997)). Limits of 10 mg tar, 1 mg nicotine and 10 mg CO per cigarette came into force from 2004 (ASPECT Consortium (2004)).

Staberg (1959) reported tests on all 19 Swedish brands using the method of Bradford et al (1936). The average machine yields ( mg per cigarette, not sales-weighted) and ranges were:

| Brand type | $\mathbf{N}$ | Tar | Nicotine |
| :--- | ---: | :---: | :---: |
| Regular or king-size | 14 | $25.3(22.2-28.3)$ | $1.74(1.26-2.08)$ |
| Filter | 3 | $14.9(11.7-18.1)$ | $1.08(0.85-1.30)$ |
| With cardboard mouthpiece | 2 | $25.4(23.7-27.2)$ | $1.77(1.53-2.00)$ |

## Notes on sources of survey data

Each source of survey data-either an individual survey or a series of surveys repeated over a number of years-is cited by a source number. This number is shown in the tables and corresponds to the source numbers given below, where details of the source publication and of the survey methodology are given. Full citations of the sources are given on p. 76 under References.

In other chapters of International Smoking Statistics, we do not usually include information specifically related to the use of smokeless tobacco. However as there has been considerable interest regarding snus in the medical and tobacco control literature, we have included extra tables in this chapter. Table 9 shows the prevalence of snus use (irrespective of smoking habits) and Table 10 shows the prevalence of any tobacco use, i.e. "smoking and/or snus use". The table layout is the same as in Table 4. Relatively little information is available on the joint distribution of smoking and snus use prevalence, and not in a standard form, so this is presented in the Notes for those sources which contribute to the main Tables, and under Additional sources, p. 72 for other sources, together with any information on amount of snus used. Table 11 provides a summary of the adult prevalence data; the smoking data are the same as shown in Table 8, while the prevalence of snus use and of any tobacco use (smoking and/or snus use) are based on those sources in Tables 9 and 10 respectively that cover an age range of at least 21-64 using methods comparable to those used for Table 8 (see Summary of adult smoking, Methods chapter, p. 13). The snus and any tobacco prevalence data are also shown in Figures 5 and 6, in a style comparable to Figure 3.

## Source <br> number

1 Svenska Tobaks AB
a. Year given as 1969 represents 1969-1970 etc.
b. Assumed extensions to age distribution for percentage smokers are shown in the extended version of Table 4 in the Excel tables workbook.

2 Mørck et al (1982), based on data from Svenska Tobaks
a. Smokers: smoked daily.

3 Le Meitour-Kaplan (1977), quoting Swedish Tobacco Company
a. Assumed extensions to age distribution for percentage smokers are shown in the extended version of Table 4 in the Excel tables workbook.

4 Le Meitour-Kaplan (1977), quoting Nordic Research Association (1973)
a. Survey conducted November-December 1973 in four Nordic countries. Total sample size 6000 . Age group not stated (see also Denmark source 3, Norway source 3, and Finland source 8).
b. Smokers: smoked 'yesterday'.

5 Floder-Myrhed (1986)
a. Data from Swedish part of Swedish-Finnish twin cohort study. Data for 1967 based on all like-sexed twin pairs born in Sweden 1886-1925 provided that both in a pair were alive in 1967 and that both answered a questionnaire in that year. Corresponding criteria applied to younger cohort born 1926-1958 and where both were alive in 1972.

6 Statistiska Centralbyrån (SCB Central Bureau of Statistics) (1965)
a. Representative postal survey. Sample size 55074 . Response rate $89 \%$, increased to $94 \%$ by telephone and personal interviews.
b. Consumption category estimation based on 1-3, 4-7, 8-15, 16-25, and $26+$ cigarettes/smoker/day.
c. Assumed extensions to age distribution for percentage smokers and for cigarettes/person/day are shown in the extended versions of Tables 4 and 6 respectively in the Excel tables workbook.

7 Hibell and Jonsson (1977), Nordgren (1980), Ramström (1982a, 1982b), Hvitfeldt et al (2004), Hvitfeldt and Nyström (2009)
a. Annual national schools surveys on alcohol, drugs, tobacco and sniffing practices. Conducted from 1971-82 by the Skolöverstyrelsen (Swedish National Board of Education) and Sociologiska institutionen of Stockholm University, from 1983-85 by Statistika Centralbyrån (Statistics Sweden), and since 1986 by Centralförbundet för alkohol- och narkotikaupplysning (CAN, Swedish Council for Information on Alcohol and Other Drugs) (on behalf of Folkhälsoinstitutet (National Institute of Public Health) or Socialdepartementet (Ministry of Health and Social Affairs) since 1993). Up to 1994, a random sample of classes was supplied by Statistics Sweden. Since 1995, a random sample of schools has been selected, and one class per school then chosen - for 1995-2000 the class was chosen according to the alphabetic order of teacher's name, and since 2001 classes have been randomly selected with probability proportional to class size. Conducted in March-April each year. Anonymous questionnaires completed in class and sealed in envelope by the pupil.
b. The surveys have included school grade 9 throughout. Grade 6 was also included up to 2005 (only alternate years after 1983), and Upper secondary grade 2 has been included since 2004. Other grades were occasionally included but results are not presented here. Tables 4-6 show approximate ages corresponding to school grades.
c. There were some changes to the questionnaire for 1983 and some results are also presented from a link survey using the earlier format. Elements of the original questionnaire were reintroduced in 1986 for continuity. The smoking questions also changed in 1997, with half the students completing each format. Results for prevalence are presented for both, with the new format B marked * against source in Tables 4 and 9. Results for cigarettes per smoker are from format $A$. In 2006, A and B formats of the questionnaire were also used, but this did not concern the tobacco questions.
d. The numbers of questionnaires processed and rates of loss are shown in the table below. Loss refers to pupil absence from contributing classes; in some schools, whole classes may not have contributed owing e.g. to school holiday or forms lost in the post.

| Year | Grade 6 |  |  | Grade 9 |  |  | Upper secondary grade 2 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Questionnaires |  | Loss <br> (\%) | Questionnaires |  | Loss <br> (\%) | Questionnaires |  | $\begin{gathered} \text { Loss } \\ \text { (\%) } \end{gathered}$ |
|  | Males | Females |  | Males | Females |  | Males | Females |  |
| 1971 | 2521 | 2346 | * | 1914 | 1921 | * |  |  |  |
| 1972 | 3840 | 3697 | 7 | 3089 | 2996 | 15 |  |  |  |
| 1973 | 2838 | 2796 | 8 | 2789 | 2996 | 14 |  |  |  |
| 1974 | 2720 | 2586 | 6 | 2352 | 2282 | 14 |  |  |  |
| 1975 | 2568 | 2596 | 7 | 2087 | 2130 | 14 |  |  |  |
| 1976 | 2242 | 2139 | 7 | 2151 | 1985 | 15 |  |  |  |
| 1977 | 3603 | 3506 | 8 | 3096 | 2938 | 15 |  |  |  |
| 1978 | 5165 | 4959 | 6 | 4734 | 4809 | 16 |  |  |  |
| 1979 | 5139 | 4917 | 6 | 5630 | 4729 | 13 |  |  |  |
| 1980 | 5040 | 4945 | 7 | 5977 | 4964 | 14 |  |  |  |
| 1981 | 4476 | 4196 | 7 | 5827 | 4669 | 12 |  |  |  |
| 1982 | 2096 | 1900 | 6 | 2599 | 2547 | 14 |  |  |  |
| 1983† |  |  |  | 833 | 808 | 14 |  |  |  |
| 1983 | 688 | 711 | 8 | 825 | 796 | 13 |  |  |  |
| 1984 |  |  |  | 16832 | 15987 | 14 |  |  |  |
| 1985 | 783 | 652 | 8 | 795 | 707 | 14 |  |  |  |
| 1986 |  |  |  | 2942 | 2878 | 12 |  |  |  |
| 1987 | 1961 | 1941 | 7 | 2958 | 2820 | 11 |  |  |  |
| 1988 |  |  |  | 2722 | 2708 | 14 |  |  |  |
| 1989 | 1792 | 1773 | 7 | 2863 | 2851 | 13 |  |  |  |
| 1990 |  |  |  | 3019 | 2958 | 13 |  |  |  |
| 1991 | 1917 | 1820 | 9 | 2980 | 2903 | 14 |  |  |  |
| 1992 |  |  |  | 3000 | 2851 | 13 |  |  |  |
| 1993 | 1962 | 1995 | 7 | 3024 | 2880 | 10 |  |  |  |
| 1994 |  |  |  | 2919 | 2949 | 10 |  |  |  |


| Year | Grade 6 |  |  | Grade 9 |  |  | Upper secondary grade 2 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Questionnaires |  | Loss <br> (\%) | Questionnaires |  | Loss <br> (\%) | Questionnaires |  | Loss <br> (\%) |
|  | Males | Females |  | Males | Females |  | Males | Females |  |
| 1995 | 1882 | 1740 | 8 | 2827 | 2750 | 12 |  |  |  |
| 1996 |  |  |  | 3071 | 2956 | 11 |  |  |  |
| 1997 | 2046 | 1913 | 6 | 2935 | 2748 | 11 |  |  |  |
| 1998 |  |  |  | 2760 | 2695 | 13 |  |  |  |
| 1999 | 1904 | 1862 | 7 | 2683 | 2515 | 14 |  |  |  |
| 2000 |  |  |  | 2598 | 2692 | 14 |  |  |  |
| 2001 | 1837 | 1756 | 11 | 2796 | 2773 | 15 |  |  |  |
| 2002 |  |  |  | 2726 | 2623 | 15 |  |  |  |
| 2003 | 1910 | 1855 | 9 | 2667 | 2559 | 14 |  |  |  |
| 2004 |  |  |  | 2661 | 2753 | 15 | 2246 | 2248 | 17 |
| 2005 | 1622 | 1559 | 9 | 2688 | 2684 | 15 | 2231 | 2311 | 18 |
| 2006A |  |  |  | 2487 | 2403 | 15 | 1841 | 1931 | 14 |
| 2006B |  |  |  | 2464 | 2398 | 15 | 2037 | 2055 | 14 |
| 2007 |  |  |  | 2752 | 2550 | 17 | 2046 | 2257 | 18 |
| 2008 |  |  |  | 2480 | 2404 | 16 | 1846 | 2137 | 17 |
| $\begin{array}{ll} * & 12 \% \text { overall } \\ \dagger & \text { link survey } \\ \mathrm{A}, \mathrm{~B} & \text { see note } \mathrm{c} \text { above. } \end{array}$ |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

e. Smokers marked as frequency *: smoked every day. Regular smokers: smoked every day or almost every day. Smokers (unspecified frequency): for grade 6, and up to 1983A unspecified; from 1983B-1997A (grade 9): smoked every day, almost every day, only at weekends, only at parties, or almost never; from 1997B onwards (grade 9 and Upper secondary grade 2) smoked every day, almost every day, only at weekends, only at parties, or occasionally.
f. Snus users (Table 9) marked as frequency *: 1983B-1997A: used 4+ times per week; 1997B onwards: used every day. Regular snus users: all years for grade 6 and up to 1997A for grade 9: used 1+ times per week; 1997B onwards for grade 9 and all years for Upper secondary grade 2: used every day or almost every day. All snus users: 1974-1982: unspecified; 1983 onwards for grade 6 and 1983-1997A for grade 9: used $1+$ times per week or less than once a week; 1997B onwards for grade 9 and all years for Upper secondary grade 2 : used every day, almost every day or only sometimes.
g. The joint distribution of smoking and snus use (\%) was as follows:

|  | Smoking: <br> Snus: | Males |  |  | Females |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | yes | yes | no | yes | yes | no |
|  |  | no | yes | yes | no | yes | yes |
| Grade 9 | 1984 | 8 | 7 | 15 | 21 | , | 1 |
|  | 1985 | 9 | 8 | 14 | 20 | 1 | 1 |
|  | 1986 | 8 | 9 | 15 | 20 | 1 | 1 |
|  | 1987 | 8 | 9 | 16 | 21 | 1 | 1 |
|  | 1988 | 8 | 8 | 14 | 22 | 1 | 1 |
|  | 1989 | 14 | 10 | 11 | 28 | 2 | 1 |
|  | 1990 | 11 | 9 | 10 | 30 | 1 | 1 |
|  | 1991 | 12 | 7 | 9 | 26 | 1 | 0 |
|  | 1992 | 13 | 9 | 10 | 27 | 0 | 0 |
|  | 1993 | 12 | 7 | 9 | 26 | 0 | 0 |
|  | 1994 | 9 | 7 | 12 | 28 | 1 | 0 |
|  | 1995 | 11 | 8 | 10 | 26 | 1 | 1 |
|  | 1996 | 11 | 8 | 8 | 24 | 1 | 1 |
|  | 1997A | 9 | 8 | 10 | 24 | 1 | 1 |

/continued


8, 9 Rosén et al (1987), Statistiska Centralbyrån (SCB Statistics Sweden) (2007, 2008, 2009)
a. Surveys of Living Conditions (Undersknigar on levnadsförhållanden, ULF). Annual interview survey of random sample of Swedish resident population, conducted by SCB.

| Year | Interviews | Response rate (\%) |
| :--- | :---: | :---: |
| 1977 | 11699 | 81 |
| 1980 | 7261 | 86 |
| 1985 | 6585 | 83 |
| 1990 | 6191 | 78 |
| 1995 | 6014 | 80 |
| 2000 | 5680 | 76 |
| 2005 | 4277 | 75 |
| (selected years) |  |  |

b. Results shown as source $\mathbf{8}$ refer to results from individual surveys, and results shown as source $\mathbf{9}$ are based on 2-year averages. We have included the single survey results in preference when available; further results based on 2-year averages are available, e.g. from SCB (accessed February 2009). See also source 10 for results for children.
c. Up to 2005, the survey was mainly conducted by personal interviews, and from 2007 mainly by computer-aided telephone interviews. In 2006, both methods were used, on half the sample each, and the prevalence estimates (daily smokers) by interview method were as follows:

|  |  | $\mathbf{1 6 - 2 4}$ | $\mathbf{2 5 - 3 4}$ | $\mathbf{3 5 - 4 4}$ | $\mathbf{4 5 - 5 4}$ | $\mathbf{5 5 - 6 4}$ | $\mathbf{6 5 - 6 4}$ | $\mathbf{7 5 - 8 4}$ | $\mathbf{1 6 - 8 4}$ |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Males | Personal | 8.7 | 12.4 | 12.0 | 15.1 | 14.2 | 14.3 | 6.8 | 12.4 |
|  | Telephone | 10.2 | 11.1 | 11.2 | 17.9 | 21.6 | 14.5 | 7.8 | 14.1 |
| Females | Personal | 15.5 | 14.2 | 20.9 | 23.8 | 22.0 | 9.8 | 4.4 | 17.1 |
|  | Telephone | 12.7 | 17.1 | 15.2 | 22.2 | 20.1 | 16.9 | 4.1 | 16.3 |

A small number (about 2\%) of proxy interviews were conducted, but these did not include smoking questions.
d. With the exception of 1977 (when the upper age surveyed was 75 ), all results included in the main tables refer to ages 16-84. Results (not shown) for prevalence for age 85+, or for age $16+$, are available for a few years only from e.g. SCB $(2007,2009)$.
e. Data shown in Table 5 are number of cigarettes per daily smokers of unspecified product. Calculation of consumption of cigarettes per person (Table 6) is based on those data from Table 5 and prevalence of daily smoking (product unspecified).
f. Regular snus users (Table 9): daily users. All snus users: daily or occasional.
g. The prevalence of joint usage of smoking and snus was provided to us by Högstorp (2005), and is summarized as follows:

| Year(s) | Smoking* | Snus ${ }^{\dagger}$ | Males |  |  |  |  | Females |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 16-24 | 25-44 | 45-64 | 65-84 | 16-84 | 16-24 | 25-44 | 45-64 | 65-84 | 16-84 |
| 1980-81 ${ }^{\ddagger}$ | current | no | 19 | 34 | 32 | 27 | 30 |  |  |  |  |  |
|  | current | yes | 7 | 7 | 4 | 4 | 5 |  |  |  |  |  |
|  | ex | yes | 6 | 8 | 4 | 8 | 7 |  |  |  |  |  |
|  | never | yes | 12 | 4 | 1 | 4 | 5 |  |  |  |  |  |
| 1988-89 | current | none | 9 | 22 | 26 | 19 | 21 | 26 | 34 | 27 | 11 | 26 |
|  | current | daily | 3 | 5 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 0 |
|  | current | occasional | 5 | 3 | 2 | 1 | 3 | 1 | 1 | 0 | 0 | 1 |
|  | ex | daily | 6 | 10 | 6 | 7 | 8 | 1 | 1 | 0 | 0 | 0 |
|  | ex | occasional | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
|  | none | daily | 15 | 7 | 2 | 3 | 6 | 1 | 0 | 0 | 0 | 0 |
|  | none | occasional | 2 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1996-97 | current | none | 9 | 13 | 18 | 13 | 14 | 19 | 25 | 26 | 13 | 22 |
|  | current | daily | 2 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
|  | current | occasional | 3 | 3 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 1 |
|  | ex | daily | 9 | 13 | 10 | 6 | 10 | 0 | 1 | 0 | 0 | 1 |
|  | ex | occasional | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
|  | none | daily | 12 | 12 | 3 | 1 | 7 | 0 | 0 | 0 | 0 | 0 |
|  | none | occasional | 4 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2004 | current | none | 5 | 7 | 18 | 8 | 11 | 10 | 16 | 21 | 11 | 16 |
|  | current | daily | 2 | 3 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
|  | current | occasional | 3 | 2 | 2 | 0 | 2 | 4 | 1 | 1 | 0 | 1 |
|  | ex | daily | 11 | 15 | 15 | 7 | 13 | 3 | 3 | 2 | 0 | 2 |
|  | ex | occasional | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
|  | none | daily | 14 | 14 | 4 | 1 | 8 | 1 | 0 | 0 | 0 | 0 |
|  | none | occasional | 2 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
|  | * daily <br> $\dagger$ current <br> $\ddagger$ In 1980-81 | snus informa |  | vailable |  |  | only for |  |  |  |  |  |

h. At the same time as the 1989-90 survey, a panel of participants from the 1980-81 survey were re-interviewed. Among the men (sample size 2383 ), the joint distribution of daily smokers/snus users at both time points, and the percentages of each 1980-81 group who changed their habits were reported by Tillgren et al (1996) as:

| Snus only | Habits in 1980-81 (as \% of panel) | Switched to | Switchers (as \% of 1980-81 group) | Habits in 1989-90 <br> (as \% of panel) |
| :---: | :---: | :---: | :---: | :---: |
|  | 12 | Mixed | 5 | 13 |
|  |  | Smoking only | 5 |  |
|  |  | None | 26 |  |
| Mixed | 5 | Snus only | 31 | 3 |
|  |  | Smoking only | 26 |  |
|  |  | None | 13 |  |
| Smoking only | 27 |  | 5 | 24 |
|  |  | Mixed | 2 |  |
|  |  | None | 23 |  |
| None | 56 | Snus only | 5 | 60 |
|  |  | Mixed | 1 |  |
|  |  | Smoking only | 5 |  |

The mean consumption of snus (boxes per week) in 1989-90 was 3.9 among men, and 7.3 among women.
i. There are some minor discrepancies with results presented in earlier editions of this report. Some results shown in Table 4 as product $U$ were erroneously shown as product $A$.
j. Assumed extensions to age distribution for percentage smokers are shown in the extended version of Table 4 in the Excel tables workbook. For age 85+, these values were loosely based on original data (see note d above).
k. Assumed extension to age distribution for percentage snus users, age 15: males (regular or unspecified) $5 \%$, (all) $20 \%$, and females (regular) $0 \%$, (all) $1 \%$. For age $85+$ : males (1980) $16 \%$, (1988) $12 \%$, (1996) $10 \%$, (2004, 2007) $8 \%$, and females $0 \%$.

1. Assumed extension to age distribution for percentage any tobacco users, age 15: males (regular or unspecified) $15 \%$, (all, 1988-1996) $25 \%$, (all, 2004) $20 \%$, and females (1988) $17 \%$, (1996-2004) $14 \%$. For age $85+$ : males (1980) $25 \%$, (1988) regular $20 \%$, all $25 \%$, (1996) regular $10 \%$, all $15 \%$, (2004) regular $8 \%$, all $10 \%$, and females (1988) $2 \%$, (1996) $3 \%$, (2004) $4 \%$.

10 Statistiska Centralbyrån (SCB Statistics Sweden) (2005)
a. Barn-ULF, children's arm of the ULF survey (sources 8,9). All children age 10-18 in participating households, concurrent with the adult ULF interviewing. The children listen to recorded questions and enter answers in a reply booklet. Results refer to 2-year average 2002-03.
b. Lowest age group (Table 4) refers to 10-12 years.
c. Regular smokers: smoked at least once a week.

## 11 Nordlund (1998, 2005) quoting Swedish Gallup Institute

a. Frequency code was shown as unspecified in earlier editions of this report.
b. Assumed extensions to age distribution for percentage smokers are shown in the extended version of Table 4 in the Excel tables workbook.

12 Noppa and Bengtsson (1980)
a. Survey in Göteborg. Population sample 1462 women, response rate $90 \%$. Ages $38,46,50$, 54 , and 60.

13 Adriaanse et al (1986), quoting Ramström (1985)
a. Age group not stated.
b. Possibly same source as source 14 for 1977 and 1982, although the prevalence data for females is unexpectedly low for 1977.

14-15 Anonymous (1983, 1984, 1985), Ramström (1986), Ramström and Tibblin (1987, 1988), Wersäll and Eklund (1998)
a. Representative survey by NTS (Nationalfoereningen foer upplysning om tobakens skadeverknignar, Swedish National Smoking and Health Association).
Source 14, 1976-1983: Conducted by SIFO. Personal interviews. Response rate 75-80\%. Source 15, 1983-1988: Conducted by SCB. Postal questionnaire. Response rate (1983) 83\%. Both methods were used in 1983 to compare results. Sample size $2000-2500$ per year.
b. For 1986 and 1987 (Table 10) the All ages values refer to ages 16-74; age-specific data are not available for age groups marked *.
c. Regular snus users (Table 9): use snus daily. Regular tobacco users (Table 10): smoke or take snus (or both) daily.
d. The consumption (g per day) of snus per snus user in 1987 was:

|  | Males |  |  |  |  | Females |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 16-24 | 25-34 | 35-54 | 55-74 | 16-74 | 16-24 | 25-34 | 35-54 | 55-74 | 16-74 |
| Daily user | 13 | 17 | 14 | 8 | 13 | 6 | 10 | 4 | - | 6 |
| Occasional user | 5 | 10 | 5 | 4 | 6 | 4 | 5 | 6 | - | 5 |

e. In 1984, two thirds of occasional snus users and one third of daily snus users were also smokers. Among occasional smokers, $35 \%$ were daily snus users and $10 \%$ occasional snus users (Anonymous (1985)). Nordgren and Ramström (1990) presented a pooled analysis of the 1985-87 surveys, from which the joint distribution (\%) of smoking and snus use among men is estimated as:


Ramström and Tibblin (1987) also presented extensive tables on the joint distribution of smoking and snus for 1986. Within the various categories of smokers, the distribution (\%) of snus use was:

| Smoking | Snus* | Males |  | Females |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 18-34 | 35-70 | 18-34 | 35-70 |
| current daily | daily | 8 | 5 | 1 | 0 |
|  | occasional | 17 | 9 | 4 | 0 |
|  | non | 74 | 86 | 95 | 92 |
| current occasional | daily | 45 | 28 | 0 | 1 |
|  | occasional | 9 | 5 | 0 | 0 |
|  | non | 46 | 65 | 96 | 96 |
| 13+ cigs per day | daily | 4 | 4 | 0 | 0 |
|  | occasional | 14 | 13 | 0 | 0 |
|  | non | 81 | 82 | 100 | 90 |
| $<12$ cigs per day | daily | 18 | 6 | 2 | 0 |
|  | occasional | 25 | 5 | 7 | 0 |
|  | non | 58 | 89 | 90 | 94 |
| pipe/cigar only | daily |  | 0 |  |  |
|  | occasional |  | 5 |  |  |
|  | non |  | 95 |  |  |
| former daily | daily | 45 | 28 | 0 | 1 |
|  | occasional | 9 | 5 | 0 | 0 |
|  | non | 46 | 65 | 96 | 96 |
| never | daily | 34 | 5 | 2 | 1 |
|  | occasional | 4 | 0 | 1 | 1 |
|  | non | 62 | 89 | 96 | 93 |

* Categories do not sum to 100 because category "Missing information" is not shown here, up to $10 \%$.
f. In 1983 and 1984, calculation of cigarettes per person based on percentage smokers of all products, and number of cigarettes per cigarette smoker, so may overestimate.
g. Assumed extensions to age distribution for percentage smokers and for cigarettes/person/day are shown in the extended versions of Tables 4 and 6 respectively in the Excel tables workbook.
h. Assumed extension to age distribution for percentage snus users, age15-17 (source 14): males 5\%. For age 15 (source 15): males (regular) $5 \%$, (all) $20 \%$ and females (regular) $0 \%$, (all) $1 \%$. For age $71+$ (source 14 ): males $16 \%$. For age $75+$ (source 15 ): males $14 \%$ and females $0 \%$.
i. Assumed extension to age distribution for percentage any tobacco users, age15: males (regular) $15 \%$, (all) $25 \%$, and females (regular) $17 \%$, (all) $20 \%$. For age $75+$ : males (regular) $20 \%$, (all) $25 \%$ and females (regular) $5 \%$, (all) $8 \%$.


## 16-17 Tolonen et al (2000), Kuulasmaa et al (1998), Wolf et al (1998), Molarius et al (1999), Wilhelmsen et al (1997), Stegmayr et al (2005)

a. Surveys using self-administered questionnaires in two regions carried out in three phases, forming part of WHO MONICA Project:

| Region |  | Phase | Participation rate (\%) |  | Sample used* |  | Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Males | Females | Males | Females |  |
| 16 | Göteborg |  | 1 | 69 | 75 | 666 | 702 | Feb 1985-Nov 1986 |
| 17 | Northern Sweden | 1 | 88 | 83 | 815 | 794 | Jan 1986-Apr 1986 |
| 16 | Göteborg | 2 | 71 | 73 | 772 | 777 | Feb 1990-May 1991 |
| 17 | Northern Sweden | 2 | 82 | 84 | 764 | 794 | Jan 1990-Apr 1990 |
| 16 | Göteborg | 3 | 72 | 71 | 813 | 959 | Sep 1994-Feb 1996 |
| 17 | Northern Sweden | 3 | 78 | 81 | 736 | 768 | Jan 1994-Apr 1994 |

* 'Sample used' includes age 25-34, all other figures are for age 35-64 only
b. All ages column relates only to age $35-64$ and is standardized to world population.
c. Regular cigarette smokers: smoked cigarettes daily. All smokers: smoked cigarettes daily or occasionally, or smoked 1 g pipe tobacco or 1 cigar per week. For source 17, regular snus user: used any amount each day.
d. Data on cigarettes per smoker (Table 5) refer to daily smokers. Data marked * against source indicate that a high proportion of missing data was reported and results should be regarded with caution. Furthermore for source 16, more than $10 \%$ of occasional smokers smoked 5 or more cigarettes per day.
e. For source 16, the prevalence of use of snus (Table 9) is based on a subset of subjects who also attended hospital examination. (Wilhelmsen et al (1997))
f. For source 17, Peltonen et al (1998) reported that regular use of any tobacco (cigarettes, cigarillos, cigars, pipe or snus) remained constant around $45 \%$ in men and $29 \%$ in women throughout the 3 phases.
g. For source 17, joint usage of smoking and snus (\%, age 25-64) was reported by Huhtasaari et al (1988) and Rodu et al (2002) as:

|  | Males |  |  |  |  | Females |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Smoking: Snus: | current never | $\begin{gathered} \text { current } \\ \text { ex } \end{gathered}$ | current current | ex current | never current | current never | current <br> ex | current current | ex current | never <br> current |
| 1986* | 21 | 6 | 8 | 10 | 4 |  |  |  |  |  |
| $1986{ }^{\dagger}$ | 15 | 4 | 4 | 9 | 9 | 27 | 0 | 0 | 0 | 0 |
| $1990{ }^{\dagger}$ | 15 | 3 | 5 | 8 | 10 | 25 | 0 | 1 | 1 | 1 |
| $1995{ }^{\dagger}$ | 13 | 2 | 4 | 12 | 8 | 26 | 0 | 1 | 1 | 1 |
| $1999^{\dagger, \S}$ | 7 | 4 | 3 | 14 | 13 | 20 | 1 | 1 | 4 | 2 |

* Regular or occasional smoker of any product. $0.6 \%$ of women were current snus users. (Huhtasaari et al (1988)).

Daily cigarette smokers (Rodu et al (2002)).
\& Additional survey, sample size 1415.
Rodu et al also reported the average consumption per male smoker/snus user pooled over the 4 phases as:

|  | Smoking: <br> Snus: | current <br> never | current <br> ex | current <br> current | ex <br> current | never <br> current |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Cigarettes per day |  | 16.0 | 15.1 | 10.8 |  |  |
| Snus packages per day |  |  |  | 0.25 | 0.41 | 0.44 |

h. Stegmayr et al (2005) reported a further phase for source 17. Conducted in 2004, sample size 1869 . The All ages values (Tables 4 and 9) refer to age 25-64 only. The joint distribution of smoking and snus use (\%) by age was:

|  | Males |  |  |  |  | Females |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 |
| Smoking** only | 3 | 7 | 9 | 15 | 6 | 12 | 16 | 17 | 20 | 11 |
| Both | 1 | 4 | 3 | 2 | 1 | 2 | 4 | 2 | 2 | 0 |
| Snus ${ }^{\dagger}$ only | 34 | 34 | 24 | 18 | 16 | 12 | 12 | 9 | 3 | 2 |
| Approximate results read from chart. * daily cigarette smoker. <br> ${ }^{\dagger}$ daily user. |  |  |  |  |  |  |  |  |  |  |
| i. There are Organizati | me discr (1989), | ancies b ilhelms | ween the et al (1 | data show <br> 7), Pelto | in Tabl en et al | d equiv used in | nt data arlier edi | en from ons of t | orld He report. |  |

## 18 Janson (1999)

a. Longitudinal study of a cohort recruited in 1955-1957 at the Solna ante-natal clinic. Considered representative of Swedish urban communities. Original participation rate $97 \%$. Response rate at each follow-up around $80 \%$ of survivors, except at age 12 when it dropped to $65 \%$ for administrative reasons. Sample size (males) 122, (females) 90.
b. Follow-up interviews were conducted at single years of age, and are shown in Tables 4-6 for the midpoint year.
c. Regular smokers: smoked daily. All smokers: smoked daily or not daily. Pipe and cigar smoking were included, but are reported to have been infrequent at all ages.
d. Consumption category estimation based on 1-2, 3-6, 7-10, 11-16, 17-20, >20 cigarette equivalents/smoker/day, counting 1 g tobacco equivalent to 1 cigarette.

19 Nutbeam and Aarø (1990), King and Coles (1992), King et al (1996), Currie et al (2000, 2004, 2008), Marklund ((accessed January 2009)), Danielson and Marklund (2000), Danielson (2003, 2006)
a. Part of the HBSC (Health Behaviour in School-Aged Children) Study, a collaborative crossnational research study sponsored by the WHO. School classes or schools were randomly selected, targeting age groups 11 (not presented here), 13 and 15 . The target sample size was $1000-1500$ in each age group.

| Year | Sample size |  |  |  | Mean age |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Target <br> age 13 | Target <br> age 15 | Total* |  | Target Age 13 | Target age 15 |
| 1985-6 | 1098 | 1074 |  |  | - | - |
| 1989 |  |  | 3553 |  | 13.4 | 15.4 |
| 1993 | 1208 | 1151 |  |  | 13.5 | 15.5 |
| 1997 | 1357 | 1151 |  |  | 13.5 | 15.5 |
| 2001 | 1201 | 1226 |  |  | 13.5 | 15.5 |
| 2005 | 1353 | 1526 |  |  | 13.5 | 15.5 |
| * Includes age 11 |  |  |  |  |  |  |

b. Number of cigarettes per smoker per day (Table 5, 1997 only) is derived from the median number smoked per week.
c. Smokers marked as frequency *: smoked daily. Regular smokers: smoke once a week or more. All smokers: includes those smoking less than once a week. Frequecy codes for snus use (Tables 9 and 10) have the same meanings.
d. The joint distribution of weekly smoking and snus use (\%) in 2001/02 was:

|  |  | Males |  |  | Females |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Smoking | Snus | Age 13 | Age 15 |  | Age 13 | Age 15 |
| yes | no | 1.5 | 5 |  | 6 | 18 |
| yes | yes | 3.5 | 6 |  | 0 | 1 |
| no | yes | 4.5 | 15 |  | 0 | 0 |

Source: Danielson (2003). Estimated from data some of which was given to nearest whole number. Equivalent data for 2005/06 are only available in a graph (Danielson (2006)).

20 Hibell et al (1997, 2000, 2004), Andersson et al (2007)
a. Nationally representative survey forming part of ESPAD (European School Survey Project on Alcohol and Other Drugs). Survey of pupils in school grade 9, selecting those born within a target year, thus age 15-16 at the time of the survey. At least 95\% of 15-16 yearolds were still in school in each survey year, with $95 \%$ in the surveyed grade. Anonymous questionnaire completed and sealed in an envelope by the pupil, in class. Teachers present, but discouraged from walking round the classroom.

| Date | Sample size |  | Participation rate (\%) |  | Target year of birth | Average age |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males | Females | Classes | Pupils |  |  |
| Mar 1995 | 1746 | 1725 | 94 | 86 | 1979 | - |
| Mar 1999 | 1715 | 1730 | 89 | 87 | 1983 | 15.2 |
| Mar 2003 | 1592 | 1640 | 87 | 87 | 1987 | 15.7 |

b. In 2003, some countries including Sweden conducted a survey using identical methodology targeting students born in 1985 (thus age 17-18). 90-93\% of this age group are still in school, of whom $80 \%$ are in the surveyed grade. Sample size (boys) 1960 , (girls) 2285. Response rate (schools) $96 \%$, (classes) $94 \%$, (students) $84 \%$. (Andersson et al (2007))
c. Smokers marked as frequency *: smoked 1 or more cigarettes per day in last 30 days. All smokers: smoked in last 30 days.
d. Consumption category estimation based on 1-5, 6-10, 11-20, $21+$ cigarettes/smoker/day.

21 Reif and Marlier (1998), Melich (2006), Christensen (2004), Papacostas (2008)
a. Eurobarometer Surveys commissioned by the European Commission to monitor public opinion in the European Union. Some Eurobarometer surveys include questions on smoking habits. Sample size around 1000.
b. The sample consisted of people aged 15 and over who were resident in the country and had the nationality of any of the member states.
c. Frequency U represents positive answers to questions such as "Do you smoke cigarettes?" or "You smoke packeted cigarettes". From 2002 an additional question made it possible to identify regular smokers also; however the estimated prevalence of regular manufactured cigarette smoking may be too high because the estimate includes any regular smokers of pipe/cigar/hand-rolled who smoked manufactured cigarettes only occasionally (and similarly for regular smoking of total cigarettes).
d. Prevalence of snus use (Tables 9,10$)$ refers to chewing tobacco or taking snuff.
e. In 2006, the prevalence of smoking (age 15+, sexes combined, sex-specific data not yet available) was $17 \%$ for packeted cigarettes, $2 \%$ for roll-up cigarettes and $1 \%$ for cigars or pipe. $80 \%$ of smokers smoked regularly. $8 \%$ reported using chewing tobacco or snuff. (Special Eurobarometer 272c European Commission (2007))
f. Consumption category estimation based on $<5,5-9,10-14,15-19,20-24,25-29,30-34,35-39$ and $40+$ cigarettes/smoker/day.
g. Before 2002 the calculation of cigarettes per person was based on prevalence of smoking (daily and non-daily) and number of cigarettes per daily smoker, so may overestimate.

22 Boström (2005, 2006, 2007, 2008), Wadman et al (2007), Wadman (2009)
a. "Hälsa på lika villkor" (Health on equal terms) series of postal surveys by Statens folkhälsoinstitut (Swedish National Institute of Public Health). National random samples from the population register, augmented by regional samples which were either random samples or were samples stratified on municipality and sometimes on age.

| Year | National sample target | Regional samples |  | Overall |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | participating counties | target | achieved | response rate (\%) |
| 2004 | 20000 | Gävleborg, Dalarna, Kronoberg, Halland, Gotland, Västra Götaland | 34000 | 33000 | 63 |
| 2005 | 10000 | Dalarna, Blekinge, Kalmar, Jönköping, Västra Götaland | 54000 | 40000 | 63 |
| 2006 | 10000 | Östergötland, Jämtland, Västernorrland, Västerbotten, Norrbotten, Gotland, Västra Götaland | 83000 | 57000 | 61 |
| 2007 | 10000 | Västra Götaland, Gävleborg | 60000 | 42000 | 60 |
| 2008 | 20000 |  |  | 11118 | 56 |

Non-response rates were higher among men, young people, people with less eduation and those born outside Sweden.
b. From the data available on prevalence of daily smoking, snus, and smoking and/or snus, the joint distribution of users can be derived as follows:


* 18 in 2004
c. For 2005-07, results were also presented for age 18-84 (for consistency with the 2004 survey). Prevalences were identical to those shown in Tables 4 and 10 except for females product A* (regular) in 2006 which was one percentage point higher.
d. Assumed extensions to age distribution for percentage smokers are shown in the extended version of Table 4 in the Excel tables workbook.
e. Assumed extension to age distribution for percentage snus users, age $15-17$ : males (regular) $10 \%$, (all) $20 \%$, and females (regular) $1 \%$, (all) $5 \%$. For age 15 : males (regular) $5 \%$, (all) $20 \%$, and females (regular) $0 \%$, (all) $1 \%$. For age $85+$ : males $8 \%$, and females $0 \%$.
f. Assumed extension to age distribution for percentage any tobacco users, age 15-17: males $20 \%$, and females $16 \%$. For age 15: males $15 \%$ and females $14 \%$. For age $85+$ : males $12 \%$, and females $4 \%$.


## 23 Hemmingsson and Kriebel (2003)

a. Nationwide survey on conscription for compulsory military service in 1969-70. Only 2-3\% of all Swedish men were exempted from conscription. Smoking was included in the second of two questionnaires completed by all conscripts. Sample size 49323.
b. Consumption category estimation based on 1-10, 11-20 and $>20$ cigarettes/smoker/day.

24 Bjurulf (1963)
a. Survey of 3014 men resident in Mälmo in latter part of 1951. Under-representative of lower social and economic status and of younger and older men, but age range not stated.
b. Smoker: smoked pipes, cigars or cigarettes. Cigarette smoker: smoked mainly cigarettes.
c. Amount smoked (all products) refers to cigarettes or corresponding amount in other forms; number of cigarettes refers to those who smoked mainly cigarettes. In both cases, amounts refer to those who smoked daily.
d. Consumption category estimation based on 1-10, 10-20 (assumed 11-20) and $>20$ cigarettes or equivalent amount /smoker/day.
e. Prevalence of regular smoking has been estimated from the sometimes conflicting data.

## 25 Otterland (1964)

a. Under Swedish law, all employees below age 18 (except seamen) are subject to supervision by the county medical inspector, including an annual examination. Questionnaires were completed at the examination by 553 workers from an area in Gothenburg.
b. Smoker: smoked more or less regularly.

26 Nordgren and Ramström (1990) quoting Swedish Gallup Institute (1955)
a. Data read from small graph and should be regarded as very approximate. Age range not stated.
b. In the 1950s and 1960s, the habit of snuff dipping (i.e. snus usage) was widespread among elderly men, especially farmers, fishermen and lumberjacks.

## 27 Nordgren and Ramström (1990) quoting Unger (1976).

a. In response to an advertising campaign by Swedish Tobacco Company in 1969, snus usage increased and spread to younger men. Data shown in Table 9 as e.g. 1969 refers to 1969-70 etc.
b. The median ages of male users were:

| Year | Median age |
| :---: | :---: |
| $1969-70$ | 41 |
| $1970-71$ | 34 |
| $1971-72$ | 33 |
| $1972-73$ | 30 |

c. Assumed extension to age distribution for percentage snus users, age 68+, males only: $16 \%$

## 28 Nilsson et al (2009)

a. Postal surveys conducted by The National Board for Health and Welfare (1987) and The Swedish National Institute of Public Health $(1994,2003)$, with identical methods. Individual nationally representative national samples of 13,15 and 17 year olds. Parents informed of survey and passive consent requested, emphasizing children's anonymity in completing the questionnaire. Target sample 1500 in each age group. Sample achieved (1987) 3033 , (1994) 3737 , (2003) 2974 . Response rate (1987) $67 \%$, (1994) 83\%, (2003) 66\%.
b. Smoker marked frequency *: smoked daily. Regular smoker: smoked every week. Regular snus user: uses 1 box per week or more. All snus users: uses snus now including those using $<1$ box per week.
c. Results shown in the All ages column of Tables 4 and 9, and in Table 10, refer to ages 13, 15 and 17 combined.
d. Among boys (ages 13, 15, 17 combined), the joint distribution of smoking (weekly) and snus use (any) can be estimated as:

| Smoking: <br> Snus: | yes <br> no | yes <br> yes | no <br> yes |  |
| ---: | :--- | :--- | :--- | :--- |
| 1994 |  | 8 | 4 | 7 |
| 2003 |  | 3 | 3 | 6 |

## Additional sources

This section includes information on the joint distribution of smoking and snus use, and on the amount of snus per snus user, from sources not presented in the main tables.

## Hyllienmark (1983)

In the late 19th century, smoking by women was generally considered immoral, but was permitted for independent women. By the 1920s, employed women started to smoke. In the $1940 \mathrm{~s}, 75-80 \%$ of men and $52 \%$ of women smoked. This differs markedly from the estimates shown in Table 4 from around the same period (sources 11, 24).

## Hergens et al (2007)

A cohort of never-smoking men working in the construction industry was recruited in 1978-1993, sample size 118 395. The mean daily consumption among ever snus users was 22 g . The distribution (\%) of snus use, by age at recruitment, was as follows:

| Snus use | Amount per <br> day (g) | Age |  |  |  |
| :--- | :--- | ---: | :---: | :---: | :---: |
|  |  | $<\mathbf{3 5}$ | $\mathbf{3 5 - 4 4}$ | $\mathbf{4 5 - 5 5}$ | $\mathbf{5 5 +}$ |
| Never |  | 64 | 82 | 89 | 88 |
| Former $^{*}$ |  | 2 | 3 | 1 | 1 |
| Current $^{\dagger}$ | $<12.5$ | 7 | 4 | 3 | 5 |
|  | $12.5-24.9$ | 16 | 7 | 4 | 4 |
|  | $25-49.9$ | 8 | 3 | 2 | 1 |
|  | $\geq 50$ | 4 | 2 | 1 | 1 |
|  | Total | 34 | 16 | 10 | 11 |

* Stopped for at least a year.
$\dagger \quad$ At least 1 g per day for at least a year.


## Novo et al (2000)

Surveys of 21-year-olds in a middle-sized industrial town in northern Sweden, using selfadministered questionnaire. Sample size (1986) 1 083, (1994) 898. Response rate (1986) $98 \%$, (1996) $90 \%$. The joint usage of cigarettes (daily) and snus was (\%):

| Smoking: | Males |  |  | Females |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | yes | yes | no | yes | yes | no |
| Snus: | no | yes | yes | no | yes | yes |
| 1986 | 20 | 6 | 21 | 38 | 0.2 | 3 |
| 1994 | 10 | 8 | 20 | 22 | 3 | 5 |

## Lundqvist et al (2009)

The Västerbotten Intervention Programme (VIP) started in 1985 and by 1990 covered all of Västerbotten county. Persons aged 30, 40, 50 and 60 were invited to health screening and counselling at 10 -yearly intervals. Analysis was based on those who first participated in 1990-1994 and who attended the follow-up. No information is available on baseline response rate. Mean age at baseline was (males) 41, (females) 42. $6 \%$ of baseline participants were ineligible for follow-up (died, moved away or untraceable) and the response rate at follow-up among the eligible was $74 \%$, giving an overall response rate at follow-up of $68 \%$. Sample size (males) 7686 , (females) 8800 . The joint distribution (\%) of daily smoking and regular snus use was:

|  | Males |  |  |  | Females |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Smoking: Snus: | current current <br> no yes | $\begin{gathered} \text { ex } \\ \text { no } \end{gathered}$ | $\begin{gathered} \text { ex } \\ \text { yes } \end{gathered}$ | never yes | $\begin{gathered} \text { current } \\ \text { no } \end{gathered}$ | current yes | $\begin{aligned} & \text { ex } \\ & \text { no } \end{aligned}$ | $\begin{gathered} \text { ex } \\ \text { yes } \end{gathered}$ | never <br> yes |
| Baseline (1990-1994) | $14 \quad 4$ | 14 | 8 | 13 | 22 | 0.5 | 16 | 1 | 1 |
| Smoking*: Snus: | current current <br> no yes |  | no |  | current current |  |  | no |  |
| Follow-up (2000-2004) | 93 |  | 23 |  | 15 | 1 |  | 5 |  |
| * Ex-smoking n | reported at follow-up |  |  |  |  |  |  |  |  |

Within each baseline category, the transition \%s to each follow-up category were as follows:

|  | Baseline |  | n | Follow-up |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Smoking: | current | current | no | no |
|  | Smoking | Snus |  | Snus: | no | yes | yes | no |
| Males | current | no |  | 1104 |  | 53 | 7 | 14 | 26 |
|  | current | yes | 314 |  | 9 | 33 | 46 | 12 |
|  | ex | no | 1099 |  | 4 | 1 | 8 | 86 |
|  | ex | yes | 608 |  | 1 | 3 | 77 | 18 |
|  | never | no | 3596 |  | 1 | 0.2 | 5 | 94 |
|  | never | yes | 965 |  | 1 | 3 | 77 | 19 |
| Females | current | no | 1914 |  | 57 | 2 | 8 | 33 |
|  | current | yes | 43 |  | 9 | 21 | 53 | 16 |
|  | ex | no | 1406 |  | 7 | 0.5 | 3 | 89 |
|  | ex | yes | 96 |  | 1 | 6 | 70 | 23 |
|  | never | no | 5210 |  | 2 | 0.1 | 1 | 97 |
|  | never | yes | 131 |  | 0.0 | 3 | 79 | 18 |

## Galanti et al (2001)

The 1998 national school survey by CAN (see source 7) was complemented by a census survey in the County of Stockholm, i.e. targeting all $9^{\text {th }}$ grade classes in the area. Sample size (boys) 6465 , (girls) 6395 , response rate $83 \%$. Among girls, $1.3 \%$ were current snus users. Among boys, the joint distribution (\%) of current smoking and snus use, and the frequency of cigarette smoking, were:

|  | \% smoking/ <br> using | of which: | smoke not <br> daily | smoke daily or <br> almost dailly |
| :--- | :---: | :---: | :---: | :---: |
| only cigarettes | 14 | 66 | 34 |  |
| cigarettes and snus | 14 | 47 | 53 |  |
| only snus | 6 |  |  |  |

Expressed another way, the proportion of smokers also using snus was $41 \%$ among nondaily smokers, and $60 \%$ among daily smokers.

## Furberg et al (2005)

The Screening Across Lifespan Twin (SALT) study conducted telephone interviews in 1999-2002 with 31425 twins born before 1959. The lifetime prevalence of snus use among women was $2.5 \%$. Among men, the joint distribution of smoking and ever snus use was:

|  | Smoking |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | current |  |  | former |  |  | never |
|  | regular | now <br> and <br> then | $\begin{gathered} \text { at } \\ \text { parties } \end{gathered}$ | regular | now <br> and <br> then | $\begin{gathered} \text { at } \\ \text { parties } \end{gathered}$ |  |
| Snus |  |  |  |  |  |  |  |
| regular | 3 | 1 | 0.0 | 14 | 1 | 0.0 | 7 |
| now and then | 1 | 0.1 | 0.0 | 1 | 0.3 | 0.0 | 0.4 |
| never | 15 | 1 | 1 | 21 | 2 | 3 | 29 |

For users of both products, results were also presented on the order of starting use (not shown here).

## Edvardsson et al (2009)

An open cohort of pupils in Kronoberg County (southern Sweden) was followed by repeat cross-sectional surveys at all schools in the area. In the final year (2000), the subjects were in upper secondary grade 3 and aged approximately 18 . Sample size 1585 , response rate $76 \%$. The joint distribution of smoking (including occasional smokers) and snus use (\%) was:

|  | Males |  |  |
| ---: | :---: | :---: | :---: |
| Smoking: | yes | yes | no |
| Snus: | no | yes | yes |
| 2000 | 13 | 12 | 14 |


| Females |  |  |
| :---: | :---: | :---: |
| yes | yes | no |
| no | yes | yes |
| 32 | 1 | 2 |

Hedman et al (2007)
The Obstructive Lung Disease in Northern Sweden (OLIN) study, a longitudinal survey of children in 3 towns. In 2003 the 2989 participants were age 14-15, and were $87 \%$ of the original sample. The joint distribution of smoking (excluding occasional smokers) and snus use was (\%):

|  | Males |  |  | Females |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Smoking: | yes | yes | no | yes | yes | no |
| Snus: | no | yes | yes | no | yes | yes |
| 2003 | 1 | 2 | 14 | 8 | 1 | 3 |

## Swedish Match ((accessed March 2009)b)

Based on the 2005-2006 Temo/Synovate postal omnibus survey of approximately 12000 people age $16-75,47 \%$ of daily snus users (sexes combined) are former smokers, but only $7 \%$ of daily smokers are former snus users. Among women, the figures are $59 \%$ and $3 \%$ respectively.

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§ Original paper not obtained, but information taken as quoted by another author


[^0]:    ${ }^{1}$ See footnotes to Figures

[^1]:    Source: see Notes on sources of sales data:Sales data before 1920 p. 59, and Sales data 1920-1973, p. 59

[^2]:    1 Cross border sales of pipe and rolling tobacco to Norway
    Excludes cross border 1974-1997
    Source: see Notes on sources of sales data: Sales data for 1974 onwards, p. 59

[^3]:    Source: Table 1.3

[^4]:    Source: Manufactured cigarettes and all tobacco products, Tables 1.1 and 1.2. Hand-rolled cigarettes, see Notes on sources of sales data: Estimates of numbers of hand-rolled cigarette for 1950-2006, p. 60. Population, see Population, Methods p. 14.

[^5]:    1 Includes estimated hand-rolled cigarette consumption Source: Table 2

[^6]:    Source: see Notes on sources of sales data: Plain/Filter cigarette sales, p. 61 and Tar and nicotine machine yields of cigarettes, p. 61

[^7]:    Source: see Notes on sources of survey data, p. 62 Estimated:
    Product:

[^8]:    Source:
    Product:

[^9]:    See footnotes on next page

[^10]:    1 Excluding smokeless products e.g. snus
    Source: Table 8
    See also customisable version of Figure 3 in the Excel workbook

[^11]:    See footnotes on next page

[^12]:    Source: Table 11

