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FROM THE
NATIONAL CENTER FOR HEALTH STATISTICS

## Cigarette Smoking: United States, 1970

During 1970 there were an estimated 48.8 million cigarette smokers in the civilian, noninstitutional population 17 years of age and older in the United States. This and other estimates are based on data collected from 37,000 households as a part of the Health Interview Survey. In addition, an estimated 23.9 million persons were former cigarette smokers and 59.7 million had never smoked at least 100 cigarettes during their entire life.

This report contains data on the cigarette consumption levels of the adult population during 1970 by age and sex (tables 1-4). Earlier estimates of the cigarette smoking status of the population have been published by the National Center for Health Statistics. A report entitled "Cigarette Smoking and Health Characteristics, United States, June 1964-July 1965," Vital and Health Statistics, PHS Pub. No. 1000Series $10-$ No. 34 contains detailed data on smoking and selected chronic and acute conditions and disabilities. The Center also collected data on cigarette smoking in cooperation with the Current Population Survey in June 1966, August 1967, and August 1968. The 1966 data have been published in a report "Changes in Cigarette Smoking Habits Between 1955 and 1966," Vital and Health Statistics, PHS Pub. No. 1000Series 10-No. 59. Two previous reports, Monthly Vital Statistics Report, Vol. 18, No. 9 and Vol. 19, No. 9, supplements, also contain data from the 1966, 1967, and 1968 surveys.

The categories used in presenting data on the number of cigarettes smoked per day are different from those used in the earlier reports, but are consistent with the more recently accepted categories. In order to facilitate comparisons with our earlier data, the smoking data from the 1965 Health Interview Survey have been retabulated and are presented here using the revised smoking categories (table 3 and 4).

During the past 5 years, from 1965 to 1970, the percentage of cigarette smokers among the adult
population has decreased from 41.6 percent to 36.7 percent. The largest decrease in the percent of present smokers occurred among males, a drop from 51.0 percent in 1965 to 43.2 percent in 1970. The proportion of female smokers dropped only slightly, from 33.2 to 30.9 percent.

The number of former cigarette smokers increased from 16.1 million in 1965 to 23.9 million in 1970, an increase from 13.2 percent to 17.9 percent of the population 17 years of age and older. The increase in the proportion of former smokers occurred among both males and females and in each age caregory.

Although there has been a decline in the number of cigarette smokers, there was an increase in the proportion of heavier smokers among the present smokers in 1970. For example, in 1965 an estimated 23.7 percent of the male smokers smoked 25 cigarettes or more per day compared with 26.4 percent in 1970. Also, in 1970 a smaller proportion of the smokers were smoking less than 15 cigarettes per day. This pattern was found among both males and females and in all age groups.

When respondents are asked to report the "average" number of cigarettes smoked per day, they tend to underreport the actual number smoked. However, estimates of the relative change over time can be made when the same collection techniques were used at both points in time, as is the case for the data presented here.

The estimated rates of smoking may also be affected by the type of respondent. Proxy-respondents (those responded for by another family member) have a somewhat higher level of "never smokers" and a lower average number of cigarettes smoked daily than do self-respondents. However, for both periods shown here the percentage of self- and proxy-respondents was about the same. About 37 percent of the males were self-respondents and about 76 percent of the females were self respondents. For more detailed
data on the differences in smoking status as reported by self- and proxy-respondents, see Series 10 , No. 59. It should be noted that no adjustment of the data was made for persons of unknown smoking status or for whom current daily smoking rates were not reported. The level of both of the unknown rates was
approximately the same for both periods shown here. However, the percent of persons with unknown smoking status or unknown amount in the three Current Population Surveys was somewhat higher than in the two Health Interview Surveys.

Table 1. Number and percent distribution of persons 17 years of age and over in population by cigarette smoking status, according to sex and age: United States, 1970

| Sex and age | Total population | Cigarette smoking status |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Never smoked | Former smoker | Present smoker | Unknown if ever smoked |
| BOTH SEXES | Number in thousands |  |  |  |  |
| Total, 17 years and over- | 133,132 | 59,675 | 23,859 | 48,819 | 778 |
| 17-24 years- | 25,942 | 14,426 | 2,121 | 9,083 | 313 |
| 25-44 years | 46,891 | 17,081 | 8,785 | 20,815 | 210 |
| 45-64 years | 41,302 | 16,326 | 8,935 | 15,874 | 167 |
| 65 years and over- | 18,997 | 11,842 | 4,018 | 3,048 | 89 |
| MALE |  |  |  |  |  |
| Total, 17 years and over | 62,310 | 19,144 | 15,861 | 26,912 | 393 |
| 17-24 years------------------------------- | 12,034 | 5,844 | 1,131 | 4,885 | 174 |
| 25-44 years | 22,542 | 5,779 | 5,235 | 11,406 | 121 |
| 45-64 years | 19,644 | 4,513 | 6,302 | 8,763 | 66 |
|  | 8,090 | 3,007 | 3,193 | 1,858 | * |
| FEMALE |  |  |  |  |  |
| Total, 17 years and over--------------- | 70,822 | 40,531 | 7,998 | 21,907 | 385 |
|  | 13,908 | 8,582 | 991 | 4,198 | 138 |
|  | 24,349 | 11,302 | 3,550 | 9,408 | 89 |
|  | 21,658 | 11,813 | 2,632 | 7,111 | 101 |
|  | 10,907 | 8,835 | 825 | 1,190 | 57 |

BOTH SEXES





MALE
Total, 17 years and over-----------------





FEMALE

17-24 years-----------------------------------




NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States in Current Population Reports, Series $\mathrm{P}-20, \mathrm{P}-25$, and $\mathrm{P}-60$.
*Figure does not meet standards of reliability or precision.

Table 2. Number and percent distribution of cigarettes smoked per day among present cigarette smokers 17 years of age and over, by sex and age: United States, 1970

| Sex and age | Total present cigarette smokers | Number of cigarettes smoked per day-present amount |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Less than 5 | 5-14 | 15-24 | 25-34 | 35-44 | 45 or more | Unknown |
| BOTH SEXES | Number in thousands |  |  |  |  |  |  |  |
| Total, 17 years and over- | 48,819 | 3,841 | 11,676 | 20,628 | 5,256 | 4,585 | 1,122 | 1,713 |
|  |  | $\begin{array}{r} 810 \\ 1,466 \\ 1,182 \\ 382 \end{array}$ | 2,9384,261 | 3,688 | 7282,611 | 3792,231 | $\begin{array}{r}89 \\ 564 \\ \hline\end{array}$ | 450 |
|  |  |  |  | 9,129 |  |  |  | 554 |
|  |  |  | 3,540 | 6,659 | 1,729 | 1,778 | 430 | 555 |
|  |  |  | 936 | 1,152 | 188 | 197 | * | 154 |
| MALE |  |  |  |  |  |  |  |  |
| Total, 17 years and over--- | 26,912 | 1,764 | 5,398 | 11,458 | 3,160 | 3,091 | 868 | 1,174 |
| 17-24 years <br> 25-44 years <br>  <br>  | $\begin{array}{r} 4,885 \\ 11,406 \\ 8,763 \\ 1,858 \end{array}$ | $\begin{aligned} & 353 \\ & 649 \\ & 534 \\ & 228 \end{aligned}$ | $\begin{array}{r} 1,469 \\ 1,867 \\ 1,513 \\ 549 \end{array}$ | $\begin{aligned} & 2,053 \\ & 5,124 \\ & 3,603 \\ & 678 \end{aligned}$ | $\begin{array}{r} 442 \\ 1,505 \\ 1,081 \\ 131 \end{array}$ | $\begin{array}{r} 220 \\ 1,458 \\ 1,282 \\ 131 \end{array}$ | $\begin{array}{r} 56 \\ 436 \\ 343 \\ 4 \end{array}$ | 292366407109 |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| FEMALE |  |  |  |  |  |  |  |  |
| Total, 17 years and over--- | 21,907 | 2,076 | 6,277 | 9,170 | 2,096 | 1,494 | 254 | 539 |
| 17-24 years-.----------------- |  | $\begin{aligned} & 457 \\ & 817 \\ & 649 \\ & 154 \end{aligned}$ | $\begin{array}{r} 1,470 \\ 2,394 \\ 2,027 \\ 387 \end{array}$ | $\begin{array}{r} 1,635 \\ 4,004 \\ 3,056 \\ 475 \end{array}$ | $\begin{array}{r} 286 \\ 1,106 \\ 648 \\ 56 \end{array}$ | $\begin{array}{r} 159 \\ 773 \\ 497 \\ 66 \end{array}$ | $*$12786$*$ | $\begin{aligned} & 158 \\ & 188 \\ & 148 \\ & \% \end{aligned}$ |
| 25-44 years------------------ |  |  |  |  |  |  |  |  |
| 45-64 years------------------- |  |  |  |  |  |  |  |  |
| 65 years and over------------ |  |  |  |  |  |  |  |  |

## BOTH SEXES

| Total, 17 years and over- | 100.0 | 7.9 | 23.9 | 42.3 | 10.8 | 9.4 | 2.3 | 3.5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 17-24 years | 100.0 | 8.9 | 32.3 | 40.6 | 8.0 | 4.2 | 1.0 | 5.0 |
| 25-44 years | 100.0 | 7.0 | 20.5 | 43.9 | 12.5 | 10.7 | 2.7 | 2.7 |
| 45-64 years | 100.0 | 7.4 | 22.3 | 41.9 | 10.9 | 11.2 | 2.7 | 3.5 |
| 65 years and over- | 100.0 | 12.5 | 30.7 | 37.8 | 6.2 | 6.5 | * | 5.1 |
| MALE |  |  |  |  |  |  |  |  |
| Total, 17 years and over--- | 100.0 | 6.6 | 20.1 | 42.6 | 11.7 | 11.5 | 3.2 | 4.4 |
| 17-24 years | 100.0 | 7.2 | 30.1 | 42.0 | 9.0 | 4.5 | 1.1 | 6.0 |
| 25-44 years- | 100.0 | 5.7 | 16.4 | 44.9 | 13.2 | 12.8 | 3.8 | 3.2 |
| 45-64 years | 100.0 | 6.1 | 17.3 | 41.1 | 12.3 | 14.6 | 3.9 | 4.6 |
| 65 years and over- | 100.0 | 12.3 | 29.5 | 36.5 | 7.1 | 7.1 | * | 5.9 |
| FEMALE |  |  |  |  |  |  |  |  |
| Total, 17 years and over-- | 100.0 | 9.5 | 28.7 | 41.9 | 9.6 | 6.8 | 1.2 | 2.5 |
| 17-24 years | 100.0 | 10.9 | 35.0 | 38.9 | 6.8 | 3.8 | \% | 3.8 |
| 25-44 years | 100.0 | 8.7 | 25.4 | 42.6 | 11.8 | 8.2 | 1.3 | 2.0 |
| 45-64 years---------------------- | 100.0 | 9.1 | 28.5 | 43.0 | 9.1 | 7.0 | 1.2 | 2.1 |
| 65 years and over------------ | 100.0 | 12.9 | 32.5 | 39.9 | 4.7 | 5.5 | * | * |

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States in Current Population Reports, Series $\mathrm{P}-20, \mathrm{P}-25$, and $\mathrm{P}-60$.
*Figure does not meet standards of reliability or precision.

Table 3. Number and percent distribution of persons 17 years of age and over in population by cigarette smoking status, according to sex and age: United States, July 1964-June 1965

| Sex and age | Total population | Cigarette smoking status |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Never smoked | Former smoker | Present smoker | Unknown if ever smoked |
| BOTH SEXES | Number in thousands |  |  |  |  |
| Total, 17 years and over------------ | 122,086 | 54,785 | 16,115 | 50,741 | 445 |
| 17-24 years--------------------------------- | 21,299 | 11,162 | 1,284 | 8,676 | 177 |
|  | 45,299 | 15,944 | 6,133 | 23,135 | 86 |
| 45-64 years- | 38,196 | 16,130 | 6,127 | 15,851 | 88 |
| 65 years and over- | 17,292 | 11,550 | 2,571 | 3,078 | 94 |
| MALE |  |  |  |  |  |
| Total, 17 years and over--------------1 | 57,585 | 17,028 | 11,075 | 29,341 | 142 |
|  | 9,962 | 4,396 | 662 | 4,838 | 65 |
| 25-44 years | 21,613 | 4,926 | 3,843 | 12,814 | * |
| 45-64 years | 18,401 | 4,406 | 4,436 | 9,527 | * |
| 65 years and ove | 7,610 | 3,299 | 2,134 | 2,161 | * |
| female |  |  |  |  |  |
| Total, 17 years and over | 64,501 | 37,758 | 5,040 | 21,400 | 303 |
| 17-24 years---------------------------------- | 11,337 | 6,765 | 621 | 3,838 | 112 |
| 25-44 years | 23,686 | 11,019 | 2,291 | 10,321 | 55 |
| 45-64 years | 19,795 | 11,723 | 1,691 | 6,323 | 57 |
|  | 9,683 | 8,250 | 436 | 917 | 79 |

BOTH SEXES
Total, 17 years and over---------------




MALE






FEMALE



 65 years and over------------------------------

Percent distribution

| 100.0 | 44.9 | 13.2 | 41.6 | 0.4 |
| ---: | ---: | ---: | ---: | ---: |
| 100.0 | 52.4 | 6.0 | 40.7 | 0.8 |
| 100.0 | 35.2 | 13.5 | 51.1 | 0.2 |
| 100.0 | 42.2 | 16.0 | 41.5 | 0.2 |
| 100.0 | 66.8 | 14.9 | 17.8 | 0.5 |
|  |  |  |  |  |
|  |  |  |  |  |
| 100.0 | 29.6 | 19.2 | 51.0 | 0.2 |
| 100.0 | 44.1 | 6.6 | 48.6 | 0.7 |
| 100.0 | 22.8 | 17.8 | 59.3 | $*$ |
| 100.0 | 23.9 | 24.1 | 51.8 | $*$ |
| 100.0 | 43.4 | 28.0 | 28.4 | $*$ |
|  |  |  |  |  |
|  |  |  |  |  |
| 100.0 | 58.5 | 7.8 | 33.2 | 0.5 |
| 100.0 | 59.7 | 5.5 | 33.9 | 1.0 |
| 100.0 | 46.5 | 9.7 | 43.6 | 0.5 |
| 100.0 | 59.2 | 8.5 | 31.9 | 0.3 |
| 100.0 | 85.2 | 4.5 | 9.5 | 0.8 |
|  |  |  |  |  |

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States in Current Population Reports, Series $\mathrm{P}-20, \mathrm{P}-25$, and $\mathrm{P}-60$.
*Figure does not meet standards of reliability or precision.

Table 4. Number and percent distribution of cigarettes smoked per day among present cigarette smokers 17 years of age and over, by sex and age: United States, July 1964-June 1965

| Sex and age | Total present cigarette smokers | Number of cigarettes smoked per day-present amount |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Less than 5 | 5-14 | 15-24 | 25-34 | 35-44 | 45 or more | $\underset{\text { known }}{\text { Un- }}$ |
| BOTH SEXES | Number in thousands |  |  |  |  |  |  |  |
| Total, 17 years and over- | 50,741 | 5,109 | 12,688 | 21,795 | 5,002 | 3,854 | 978 | 1,315 |
| 17-24 years------------------- | 8,676 | $\begin{array}{r} 980 \\ 2,084 \\ 1,514 \\ 531 \end{array}$ | $\begin{aligned} & 2,876 \\ & 5,097 \\ & 3,703 \\ & 1,012 \end{aligned}$ | $\begin{array}{r} 3,573 \\ 10,351 \\ 6,780 \\ 1 \end{array}$ | $\begin{array}{r} 563 \\ 2,675 \\ 1,595 \\ 169 \end{array}$ | 2591,990 | 66515 | 359422 |
| 25-44 years | 23,135 |  |  |  |  |  |  |  |
| 45-64 years | 15,851 |  |  |  |  | 1,459 | 366 | 435100 |
| 65 years and over------------ | 3,078 |  |  |  |  | 146 |  |  |
| MALE |  |  |  |  |  |  |  |  |
| Total, 17 years and over--- | 29,341 | 2,347 | 6,038 | 13,038 | 3,360 | 2,795 | 789 | 973 |
| 17-24 years------------------- | 4,838 | 432 | 1,435 | 2,135 | 364 | 164 | * | 262 |
|  | 12,814 | 893 | 2,188 | 5,921 | 1,714 | 1,390 | 404 | 302 |
| 45-64 years------------------- | 9,527 | 702 | 1,755 | 4,169 | 1,143 | 1,121 | 309 | 329 |
| 65 years and over------------ | 2,161 | 320 | 660 | 812 | 138 | 120 | * | 80 |
| FEMALE |  |  |  |  |  |  |  |  |
| Total, 17 years and over--- | 21,400 | 2,762 | 6,650 | 8,757 | 1,642 | 1,059 | 189 | 342 |
| 17-24 years------------------ | 3,838 | 549 | 1,440 | 1,438 | 199 | 95 | * | 97 |
| 25-44 years------------------- | 10,321 | 1,191 | 2,909 | 4,430 | 961 | 600 | 111 | 120 |
| 45-64 years | 6,323 | 812 | 1,949 | 2,611 | 452 | 338 | 57 | 106 |
| 65 years and over------------ | 917 | 210 | 352 | 278 | * | * | * | * |

BOTH SEXES
Total, 17 years and over-17-24 years-1.-0.
$25-44$ years
$45-64$ years
65 years and over-
MALE
Total, 17 years and over---17-24 years---------------------

 65 years and over-

FEMALE
Total, 17 years and over---



65 years and over--------------

Percent distribution

| 100.0 | 10.1 | 25.0 | 43.0 | 9.9 | 7.6 | 1.9 | 2.6 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |  |  |
| 100.0 | 11.3 | 33.1 | 41.2 | 6.5 | 3.0 | 0.8 | 4.1 |
| 100.0 | 9.0 | 22.0 | 44.7 | 11.6 | 8.6 | 2.2 | 1.8 |
| 100.0 | 9.6 | 23.4 | 42.8 | 10.1 | 9.9 | 2.3 | 2.7 |
| 100.0 | 17.3 | 32.9 | 35.4 | 5.5 | 4.7 | $*$ | 3.2 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 100.0 | 8.0 | 20.6 | 44.4 | 11.5 | 9.5 | 2.7 | 3.3 |
| 100.0 | 8.9 | 29.7 | 44.1 | 7.5 | 3.4 | $*$ | 5.4 |
| 100.0 | 7.0 | 17.1 | 46.2 | 13.4 | 10.8 | 3.2 | 2.4 |
| 100.0 | 7.4 | 18.4 | 43.8 | 12.0 | 11.8 | 3.2 | 3.5 |
| 100.0 | 14.8 | 30.5 | 37.6 | 6.4 | 5.6 | $*$ | 3.7 |
|  |  |  |  |  |  |  |  |
| 100.0 | 12.9 | 31.1 | 40.9 | 7.7 | 4.9 | 0.9 | 1.6 |
| 100.0 | 14.3 | 37.5 | 37.5 | 5.2 | 2.5 | $*$ | 2.5 |
| 100.0 | 11.5 | 28.2 | 42.9 | 9.3 | 5.8 | 1.1 | 1.2 |
| 100.0 | 12.8 | 30.8 | 41.3 | 7.1 | 5.3 | 0.9 | 1.7 |
| 100.0 | 22.9 | 38.4 | 30.3 | $*$ | $*$ | $*$ | $*$ |

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States in Current Population Reports, Series $\mathrm{P}-20, \mathrm{P}-25$, and $\mathrm{P}-60$.
${ }^{*}$ Figure does not meet standards of reliability or precision.

## TechnicalNotes

SOURCE OF DATA. The data presented in all tables in this report were derived from household interviews of the Health Interveiw Survey. These interviews were conducted in a probability sample of the civilian, noninstitutional population of the United States. During fiscal 1965 approximately 89,000 persons 17 years of age and older living in a total of 42,000 households were included in the sample. From January through December 1970, approximately 77,000 persons 17 years of age and older living in 37,000 households were included in the sample. (See Appendix I of "Current Estimates, 1970," Vital and Health Statistics, Series 10, No. 72, DHEW Pub. No. (HSM) 72-1054, for a more detailed account of the 1970 sample.) The information in tables 1-4 was obtained from the following questions:
IIts. . . smoked as least 100 cigaretes ducing his entire lifos Dors. . . snoker cigaretles now?
On the average, about how many eigarettes a day does . . . smoke?
DEFINITIONS. Present smoking rate ${ }_{0}-\mathrm{A}$ person's present smoking rate is the number of cigarettes he reports to be smoking per day at the time of the interview.

Present cigarette smokers.-Any person who reported a current rate of cigaretre smoking is classified as a present smoker. The rate may range from less than 1 cigarette per day to 99 cigarettes or more per day. If a person has stopped smoking cigarettes only temporarily because of illness, economic reasons, or the like, he is still considered a present smoker.

Former cigarette smoker.--Any person who has smoked at least 100 cigarettes during his entire life, but reports smoking no cigarettes at the present time is classified as a former smoker.

Nonsmoker.--A person who has never smoked at least 100 cigarettes ( 5 packs of cigarettes) during his entire life is considered to have never smoked cigarettes.

SAMPLE. Since the estimates shown are based on a sample of the population rather than on the entire population, they are subject to sampling error. The standard errors appropriate for the estimates of the number of persons by smoking status are shown in table I. Tables II-A and II-B show the standard errors appropriate for the percent of persons by smoking status.

The standard error of the difference between two percentages is approximately the square root of the sum of squares of the standard error of each estimate considered separately. For instance, the percentages of present smokers among males in 1965 and 1970 were 51.0 and 43.2 , respectively. Linear interpolation from tables II-A and II-B indicates that for populations
of 57.6 million and 62.3 million the standard errors of these percentages are about 0.3 in 1965 and 0.3 in 1970. Thus, the standard error of the difference is about 0.42 . The observed difference between the two percentages is 7.8. This difference divided by the standard error of the difference between the two percentages (7.8/0.42) gives a value of 18.6 . This value means that a difference of 7.8 percentage points may occur by chance alone, an average of less than one time out of 100 observations. Thus, this difference may be considered statistically significant.

Smoking information was obtained for persons who were not home at the time of the interview from a household respondent. In 1970, 76.1 percent of females and 37.1 percent of males in the sample were selfrespondents, while information on the remainder was obtained from proxy-respondents. These figures were virtually the same for the 1965 sample. The type of respondent, i.e., self-respondent or proxy, had little effect on the rates of present smokers for males but had some effect on the rates of present smokers for females. Both males and females are more likely to report themselves as former smokers than to report other family members (proxy-respondents) as former smokers.

| Type of respondent | Percent present smokers |  | Percent former smokers |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Male | Female |
| 1965: |  |  |  |  |
| Self------ | 50.6 | 34.4 | 23.1 | 8.6 |
| Proxy----- | 51.1 | 28.4 | 16.9 | 5.0 |
| 1970: |  |  |  |  |
| Self------ | 43.4 | 32.2 | 29.0 | 12.4 |
| Proxy----- | 43.1 | 26.8 | 23.3 | 7.7 |

Table I. STANDARD ERRORS OF ESTTMATES OF AGGREGATES FOR NARROW-RANGE STATISTICS

| Size of estimate | Standard error |  |
| :---: | :---: | :---: |
|  | 1965 | 1970 |
| 500,000----------------- | 36,000 | 39,000 |
| 1,000,000------------------ | 52,000 | 56,000 |
| 5,000,000------------------------ | 115,000 220,000 | 124,000 |
| 50,000,000---------.--- | 300,000 | 324,000 |
| 100,000,000------------ | 340,000 | 367,000 |

Technical Notes－Con．

Table II－A．STANDARD ERRORS，EXPRESSED IN PER－ CENTAGE POINTS，OF ESTIMATED PERCENTAGES FOR NARROW－RANGE STATISTICS，JULY 1964－JUNE 1965


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Table II－B．STANDARD ERRORS，EXPRESSED IN PER－ CENTAGE POINTS，OF ESTIMATED PERCENTAGES FOR NARROW－RANGE STATISTICS，JANUARY－DECEMBER
1970 1970

| Base of percentage | Estimated percentage |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 2 \\ & \text { or } \\ & 98 \end{aligned}$ | 5 or 95 | 10 or 90 | 25 or 75 | 50 |
| 500－－－－－－－－－－－－－－ | 1.1 | 1.7 | 2.4 | 3.3 | 3.9 |
| 1，000－－－－－n－－－－－－ | 0.9 | 1.3 | 1.7 | 2.5 | 2.8 |
|  | 0.3 | 0.5 | 0.8 | 1.1 | 1.3 |
| 20，000－－－－－－－－－－－ | 0.2 | 0.3 | 0.3 | 0.5 | 0.6 |
| 50，000－－－－－－－－－－ | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 |
| 100，000 or more－ | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 |

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