Reliability of statements about smoking habits

Report on ACS Follow-up Study

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SUMMARY

Methods

In 1980, a representative sample of 8,600 U.K. subjects aged 16+ were interviewed about their own smoking habits and those of other members of their household, information on certain demographic characteristics also being obtained. Subsequently, in 1985, 540 of the 5,289 subjects aged 25-65 in 1980 were reinterviewed. The second questionnaire repeated the main questions on own smoking and also asked subjects to recall their own habits in 1980.

Objectives

The main objective of the study was to assess <u>consistency</u> of statements made in 1980 and 1985 in response to a series of identical questions which allowed classification of subjects as never smokers, ex-smokers and current smokers.

Subsidiary objectives were:

(i) to assess the level of <u>concordance</u> between the subject's own smoking habits and those of his or her spouse and those of other household members,

(ii) to assess how good <u>1985 recall of 1980 smoking habits</u> was and how this recall varied according to current smoking habits,

(iii) to compare <u>memory of events prior to 1980</u> in the 2 surveys,

(iv) to assess <u>changes in habits between 1980 and 1985</u> and to which factors the changes related.

(v) to <u>compare results with those reported earlier in Research Papers 2 and 2A</u>.

Concordance of smoking habits

Husband's and wife's smoking habits in 1980 were strongly correlated, with current manufactured cigarette smokers 2.7 times more likely than never smokers to have a spouse who smokes manufactured cigarettes.

The number of other smokers in the household is strongly correlated with the subject's own smoking habits.

Consistency of statements made in 1980 and 1985

After taking account of occasional smokers, 14.8% of men and 3.6% of women, who in 1985 stated they had never smoked, had earlier stated they were current or ex-smokers. (Type I inconsistency).

In addition, 22.0% of men and 7.8% of women, who in 1980 stated they had never smoked, later stated that they were current or ex-smokers and had started to smoke before 1980. (Type II inconsistency).

Both Type I and Type II inconsistency were more frequent in older subjects and in subjects whose two statements about age were inconsistent.

Compared with consistent smokers, both inconsistent groups reported having smoked for fewer years. Where the inconsistency was between being a never and ex-smoker, the stated time of giving up was longer ago and the number of manufactured cigarettes smoked at the time of giving up less than in other ex-smokers.

The proportion of Type I inconsistent subjects who reported in 1980 that their spouse smoked was about the same as among consistent smokers. However, among Type II inconsistent subjects, it was lower even than consistent never smokers.

There was also 1 man and 1 woman, who said they were current smokers in 1980 but who in 1985 claimed to have given up before 1980. (Type III inconsistency).

1985 recall of 1980 smoking habits

When asked in 1985 to recall 1980 smoking habits, about 8% of subjects disagreed with earlier statements as to whether or not they had been smoking manufactured cigarettes, or had been smoking any product. This disagreement was somewhat higher in men than in women.

Within men who reported smoking in 1980 on both occasions, over 31% disagreed about the types of product smoked. There was considerable discrepancy between the two sources of information

concerning number of cigarettes smoked and brand smoked but not regarding whether the brand was filter or plain.

Where errors or recall were made, there was a general tendency for these to be in the direction of current smoking habits. This was true for type of product smoked, number of cigarettes smoked (particularly among heavier smokers) and for brand smoked.

Memory of events prior to 1980

There was considerable discrepancy between answers to similar questions asked in both surveys concerning events prior to 1980 - age finished full-time education, age started smoking, year when gave up smoking, which products were smoked at the time of giving up and how many manufactured cigarettes were smoked at the time of giving up.

Changes in habits between 1980 and 1985

Between 1980 and 1985 more men and women gave up than took up smoking, and reduced than increased numbers of manufactured cigarettes.

Digit preference

Smokers tend to preferentially report or recall numbers of manufactured cigarettes smoked as ending with a zero or to a lesser extent as ending with a 5. This was more marked when recalling number usually smoked than number smoked yesterday.

Comparison with RP2 and RP2A

Due to differences in methods, the inconsistent groups we have discussed cannot be compared, but the 1952 and 1957 studies found similar levels of Type I current smokers as in the present study.

Findings on recall of smoking habits at the time of previous interview were similar regarding whether or not smoked, which products and how many cigarettes were smoked. Recall of which brand was smoked was much less accurate in the present study. The influence of present smoking habits on accuracy of recall was noted in both studies, but was less marked in the present study.

Findings on digit preference were similar in both studies.

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TEXT

1. Introduction

Most studies in recent years investigating the relationship between smoking and disease have been based on self-reported smoking habits. The accuracy of statements about smoking habits is clearly of crucial importance to the conclusions of such studies, but little detailed research has been done on this since TRC's Research Papers 2 and 2A some twenty years ago.

That study was based on subjects originally interviewed in 1948-50 in the Annual Consumer Survey (ACS). They were re-interviewed in 1952, 1957 and 1964 to investigate errors made in recalling smoking habits over different lengths of time. The study described here was carried out along similar lines, with subjects from the 1980 ACS re-interviewed in 1985, in order to bring the research up-to-date.

The need for a new study was prompted by various factors. One is the change during the intervening 20 years in attitudes to smoking. The increasing public awareness of smoking and health issues and the decreasing social acceptability of smoking may well prompt an increasing proportion of smokers to deny smoking, or cause those who have cut down to exaggerate past smoking.

Secondly, the accuracy of statements about smoking becomes even more important when studying the possible effects of passive smoking on health, since misclassification of active smokers as non-smokers can cause an appreciable bias.

Studies of the type considered here are concerned with consistency of repeated statements over time by the same individual and the reliability of recall of past events. In a separate study, currently ongoing, an objective measure (salivary cotinine) is being used to assess reliability of a single statement about current smoking habits.

2. Follow-up Study methods

The 1980 ACS interviewed 8,600 subjects age 16+ from 176 sampling points. The follow-up study was restricted to those aged 25-65 in 1980. Those aged under 25 were omitted on the grounds that they were less likely to have changed their smoking habits by that age, and also that a very low success rate would be expected in re-interviewing this age group, due to their mobility. Those aged over 65 were omitted to minimize problems including decreased survival and increased illness and loss of memory. The total sample eligible for re-interview was thus reduced to 5289, an average of 30 subjects at each sampling point. 80 sampling points were selected, preserving the regional balance of the original 176, and the interviewers were asked to locate (based on knowledge of name, initial, sex and address, but not age) and interview 7 subjects from each point, subject to quotas on sex and age (4 men and 3 women or 4 women and 3 men, not more than 1 subject aged 65-70), with the objective of obtaining at least 500 follow-up interviews. When identifying the subject, no reference was made to the fact that a previous interview had been carried out in 1980, in order to make the circumstances of interview in 1985 as similar as possible to the normal ACS interview situation, and not to alert subjects to the objective of the study.

The questionnaire used in the follow-up (Appendix A) was largely a repeat of the relevant parts of the ACS questionnaire

(<u>Appendix B</u>), covering general smoking status, details on manufactured cigarette smoking and various demographic details. Though the full ACS questionnaire asked a number of questions on smoking not asked in the follow-up, the questions asked on smoking on both occasions were asked first so answers should not be affected by the presence or absence of these additional questions on smoking. The ACS questionnaire in 1980 also had questions about smoking of manufactured cigarettes by other members of the household. The follow-up questionnaire did not ask questions regarding smoking by other members of the household, but added questions asking the subjects to recall their own smoking habits in 1980. These recall questions were asked after the standard ACS questions on smoking so as not to affect answers to the latter.

The data were received from Research Services on three tapes. TAPE1 contained 2 original cards for 2605 subjects in the districts not selected for follow-up. TAPE2 contained 2 original and 2 follow-up cards for the 555 persons re-interviewed. TAPE3 contained 2 original cards for 2129 persons in the districts selected, but who were not re-interviewed. On all three tapes, card 2 was omitted if the subject had never smoked manufactured cigarettes.

Two data files were set up for the analysis. ACS80.DAT contains the relevant data from the original study for all subjects, plus a variable indicating follow-up status derived

from the tape number. <u>Appendix C</u> gives details of the source of each variable from the cards, and gives the distribution of each variable by follow-up status.

FOLLOWUP.DAT contains data from both original and follow-up questionnaires for those people who were re-interviewed. Details are given in <u>Appendix D</u>. The distributions of variables based on the same question asked at different times are presented side by side.

3. <u>Concordance between husband's and wife's smoking habits</u>

Based on the total 1980 data for those who are married, a number of analyses were carried out relating the subject's own manufactured cigarette smoking habits (never, ex, 0-17, 18-22, 23+) to whether or not the spouse was reported by the subject to smoke manufactured cigarettes. As shown in <u>Table 1</u>, the percentage of subjects who have a spouse who smokes rises steadily with the subject's own manufactured cigarette smoking habits. After standardising for age, sex and social class, this trend is similar and highly significant (p<0.001) in both sexes individually, with, overall, current manufactured cigarette smokers some 2.7 times more likely than never smokers to have a spouse who smokes manufactured cigarettes. The trend is evident in all age and social class groups, but is rather more marked in the young than in the old and in ABC1 than in C2DE.

4. Correlation between subject's smoking habits and other smokers in the household.

As shown in Table 2, there is also a clear positive association between manufactured cigarette smoking with whether there is another smoker other than the spouse in the household, after adjusting for household size. Overall, 73% of never smokers and 74% of ex-smokers lived in a household with no other smoker, as compared with respectively 60%, 63% and 53% of current smokers of 0-17, 18-22 and 23+ manufactured cigarettes per day.

Thus, the study provided evidence that smokers were not only more likely to be married to smokers, but were also more likely to live in the same house as smokers other than the spouse.

5. Consistency of statements about age

As the original interviews were carried out towards the end of 1980, the subjects would have been either 4 or 5 years older in the 1985 survey. Some minor inaccuracies or roundings might have been expected, particularly if age was estimated by the interviewer, but it was found that there were a large number of discrepancies, some of them fairly gross.

In Table 3, the subjects are classified into 5-year age groups, and the figures ringed indicate those subjects where the discrepancy was by more than one age group.

The size of some of these discrepancies led to the suspicion that the wrong person had been interviewed in the follow-up - probably a relative with the same initial living in the same household. A detailed examination of the questionnaires was carried out for the 165 subjects who did not have the expected 4/5-year age difference. For 150 subjects this resulted in a positive identification that the follow-up interview had been conducted with the correct person. In 6 cases the follow-up was found to be with the wrong person, while a further 9 cases were uncertain. It was decided to reject all these 15 cases from the follow-up study.

Table 4 shows a revised comparison of age groups for the remaining 540 subjects.

Table 5 is based on the difference between exact ages stated in 1980 and 1985. The discrepancies may be explained as:

a) age estimated at either interview by the interviewer.

b) respondents not remembering their exact age.

c) respondents lying about their age.

d) interviewers changing ages to fit survey quotas.

The age as stated in 1980 is used in all subsequent analyses.

6. Representativeness of follow-up sample

As the response rates obtained from different demographic groups would be expected to vary under the selection procedure, it is necessary to assess the representativeness of the follow-up sample.

The 1980 answers for a number of factors were compared between those re-interviewed and those not re-interviewed (or rejected). These comparisons are given in Appendix E. A number of significant differences were seen, and the effect on the follow-up sample can be summarised as follows:

A male subject was more likely to have been re-interviewed if

he   - was age 35 or over (in 1980).

- was in social class C2DE.

- finished full-time education age 15 or under

- lived in a large household.

- was originally interviewed at home.

- was originally interviewed on a Saturday.

- was an ex-smoker or never smoker of cigars (as opposed to current or occasional).

A female subject was more likely to have been re-interviewed if
she   -   was married.

            -   was not working, or working part-time.

            -   lived in a large household.

            -   was originally interviewed at home

            -   was a current hand-rolled smoker.

No differences were seen in respect of sex, length of
original interview, manufactured cigarette smoking habits,
or pipe smoking habits.

The differences found seem to follow a plausible pattern,
with the interviewer less likely to get hold of young, mobile, at
work people.

In order to check that these differences were not due to the
80 sampling points selected being unrepresentative of the total,
some further comparisons were made between all subjects in
selected areas and those in non-selected areas. These
comparisons showed virtually identical distributions as regards
sex, age, social class and manufactured cigarette smoking habits.

7. <u>Main analysis - introduction</u>

The main analysis of the study was seen as providing answers to the following 3 questions:

(a) Were answers about general smoker status in 1985 consistent with answers to similar questions in 1980?

(b) When specifically asked in 1985 to recall details of 1980 smoking habits, how good was memory compared with answers given at the time, and was memory affected by current smoking habits?

(c) How did memory of events prior to 1980 compare in the 2 surveys?

A fourth question was also looked at, namely:

(d) How had habits changed between 1980 and 1985 and to which factors did these changes relate?

8. <u>Consistency of statements about smoking status</u>

If one defines the subjects according to both the 1980 and 1985 statements separately as "current", "ex" or "never" smokers of any product, and if the 1985 subjects are further divided by whether they started and/or stopped smoking before or after 1980, then it is clear that certain combinations of replies are inconsistent.

It was found that no subject claimed to have started smoking after 1980, and a further check ascertained that no combination of starting/stopping dates was inconsistent. This somewhat simplified the various possibilities which are summarized in <u>Table 6</u>. Certain groups are highlighted and are dealt with in detail in the follolwng sections, viz.

I: subjects who in 1980 stated they smoked or had smoked in the past but who in 1985 claimed never to have smoked;

II: subjects who in 1980 said they had never smoked, but who in 1985 claimed to have started smoking by 1980;

III: current smokers in 1980 who claimed in 1985 to have given up before 1980.

A problem in these definitions of type I and type III inconsistency arises from the wording of the questions about manufactured cigarettes, handrolled cigarettes and pipes. The basis of current smoker status is the simple question "Do you

smoke ...?". However, ex-smoker status is based on the more strictly defined question "Have you ever smoked at least one ... a day for as long as a year?", and the time of giving up relates to giving up smoking at this level. Hence, a subject who was smoking only occasionally in 1980 and who had given up by 1985 would be classified as a current smoker in 1980 but as a never smoker in 1985, thus erroneously appearing as type I inconsistent. Similarly, a regular smoker who had reduced his level of smoking below the defined level by 1980 and given up by 1985 would erroneously appear as a type III inconsistent. This possible explanation for some of the inconsistencies is investigated in the relevant sections. (The problem does not arise for type II inconsistency, nor for smoking of cigars.)

It can be noted that the information on age of starting to smoke and year of giving up, on which Table 6 is based, relate to overall smoking and not to specific products. However, as these items are not used in identifying type I inconsistent subjects, it is additionally possible to study type I inconsistency for individual products.

When considering inconsistency in overall smoking, this ignores possible inconsistent changes of product (e.g. pipe smoker in 1980, only ever manufactured cigarettes in 1985).

8.1 Type I inconsistency

Table 7 gives the number claiming to be "never" smokers in 1985 and shows how many previously claimed to be current or ex-smokers. Figures are given for each product separately and for smoking any product.

This shows that those who reported never having smoked by 1985 contain a substantial proportion who had apparently smoked in the past. This proportion is particularly high for men, being 17.9% for manufactured cigarettes and 14.8% for any product; in the 55-65 age group, the proportion reached 30% and 50% respectively, although these figures are based on the relatively small number of never smokers in this age group.

The individual data for manufactured cigarettes and for any product were examined (Tables 8 and 9) to see if occasional smoking provided a possible explanation for any of the inconsistencies.

The possibilities to consider for manufactured cigarette smoking, (i.e. those involving current smoking) were:

Serial No.	No.cigs.
11451	20
12290	12
12525	6
21855	1
23237	1

There were no additional possibilities for smoking any product. The first two of these were also the only two subjects to show inconsistency within the 1985 questionnaire, by claiming never to have smoked but recalling smoking 20 and 10 cigarettes a day respectively in 1980. These agree well with their 1980 statements, and suggest that the 1985 statements on smoking status are false, possibly due to the subject not understanding the questions.

The third (serial no.12525), smoking only 6 manufactured cigarettes "yesterday" in 1980 and being a continuing handrolled cigarette smoker, may fit into the "loophole" of an occasional smoker, as most likely do the final two subjects (serial nos. 21855 and 23237), both smoking 1 cigarette yesterday.

If these 3 were treated as never regular smokers, then the adjusted % inconsistencies shown in the final 2 columns of Table 7 are obtained. The overall pattern would be little affected. Thus, for men the Type I inconsistency rate for manufactured cigarette smoking would fall from 17.9% to 16.4% after adjustment, while that for women would fall from 5.3% to 3.5%.

It was not possible to assess whether the other current inconsistent smokers (7 handrolled, 3 pipe) included occasional smokers, since there were no questions about the quantity smoked of these products.

A number of factors were studied to see if they were associated with the level of inconsistency.

One possible cause of inconsistent statements is a tendency to ignore smoking of short duration. To investigate this, the number of years smoked (based on age started and year stopped if appropriate) was compared between the 1980 smokers (current or ex) who later claimed, inconsistently, to be never smokers and the 1980 smokers who continued to claim to be smokers by 1985. This analysis is given in Table 10. As can be seen, the level of inconsistency decreased with the number of years smoked (trend p<0.01).

Among ex-smokers, comparisons could also be made of how long ago smoking stopped, and the number of manufactured cigarettes smoked at that time (Tables 11 and 12). Here, the comparison is between the 1980 ex-smokers who later claimed to be never smokers, with the 1980 ex-smokers who continued to claim to be ex-smokers in 1985 (excluding those few who in 1985 stated giving up since 1980, since they may indeed have re-started and stopped in the intervening 5 years). As can be seen, the proportion who in 1980 reported giving up before 1970 was higher in the inconsistent group (66.7%) than in the consistent group (31.7%). However, sample sizes were small and the difference was only

significant at the 90% confidence level. There is also a very marked trend towards a lower number smoked by the inconsistent group. Despite the small sample size in this group, this trend was quite highly significant (p<0.01).

8.2 Type II inconsistency

Looking at the same problem but with the times reversed, we now turn to Type II inconsistency, i.e. study of those who stated that they had never smoked in 1980, but who were current or ex-smokers in 1985.

There were 2 such subjects (aged 63 and 45) for whom age of starting to smoke was missing. As there were no subjects at all claiming to have started smoking after 1980, it seems reasonable to assume that these 2 also started before 1980.

As shown in Table 13, those claiming never to have smoked by 1980 contain a considerable number who later stated that they had smoked by that time, namely 22.0% of males and 7.8% of females. As with the previous type of inconsistency, the highest proportion was among males aged 55-65 with 55.6% (5 out of 9) inconsistencies. A listing of subjects with Type II inconsistency is shown in Table 14.

As for Type I inconsistency, it is of interest to compare duration of smoking, time of stopping smoking and number of cigarettes smoked at time of giving up for Type II inconsistent and comparable consistent smokers. Here, the subjects to be studied are those who in 1985 stated they were smokers who had started before 1980, and the comparison is between those who were never smokers (inconsistent) and those who were current or ex-smokers (consistent) in 1980. Results are given in Tables 15,16 and 17. It can be seen that there is a tendency for the Type II inconsistent subjects to have reported smoking for fewer years. 33.3% (7/21) of the inconsistent group had smoked for 10 years or less compared with 4.4% (14/318) of the consistent group (trend $p<0.05$). They also reported stopping smoking earlier (trend $p<0.05$), and to have smoked fewer manufactured cigarettes at the time of giving up (trend $p<0.01$).

8.3 Type III inconsistency

Among the 53 subjects who said they were current smokers in 1980 but ex-smokers in 1985, 2 subjects (3.8%) claimed to have given up before 1980, and their details are given in Table 18.

The first (serial 10201) claimed on both occasions to be an ex-smoker of 40 manufactured cigarettes per day, but his 1980 current cigar smoking was denied in 1985, despite the stricter form of question being used on both questionnaires for cigars. Hence the 1985 claim to have given up smoking in 1971 presumably relates to manufactured cigarettes only.

The second (serial 22819) stated having given up in 1979 and may possibly have been an occasional smoker in 1980. However it seems more likely that this inconsistency can be attributed to a slight error in recalling the year of giving up. (Recall of year of giving up is also considered in section 10.)

Two further subjects (serial 22380, 23315) are also listed. These did not state when they gave up smoking, so their consistency cannot be assessed. (They are treated as consistent in subsequent analyses.)

8.4 Inconsistency of smoking habits related to other smokers in the household

Having identified three groups of subjects with inconsistent statements on smoking habit, it is of interest to investigate the proportion who are married to smokers, or who live in a household

with other smokers, compared with those giving consistent statements. Table 19 gives the proportion in each group who stated in 1980 that they were married to a smoker or that another household member smoked. It can be seen, in line with the findings of Section 3, that more consistent smokers (45.4%) than consistent never smokers (29.2%) were married to a smoker (p<.005). The proportion for type I inconsistent subjects (38.5%) was almost the same as for consistent smokers, but for type II (11.1%) was significantly lower. Indeed, this is much lower (although not significantly) than the consistent never smokers. Bearing in mind that it was in 1980 that the type II subjects denied smoking, this is consistent with 2 hypotheses - (a) that a subject who denies his own smoking is likely to deny his spouse's smoking at the same time or (b) that a smoker married to a non-smoker is likely to deny his own smoking. Similarly for the proportions in each group where there was another smoker in the household other than the spouse, the differences were generally in the same direction, but none were significant.

In Table 20 the inconsistency rates for the three types of inconsistency among comparable consistent subjects are shown, broken down by whether the spouse or another household member smokes. It can be seen that the Type I inconsistency rate is higher (although not significantly) among those who claimed that their spouse smoked than among those who claimed that their spouse did not smoke, whereas the difference in the Type II inconsistency rates is in the opposite direction.

9. Recall of 1980 smoking habits in 1985

In the 1985 interview, questions were asked regarding whether in 1980 the subject had smoked manufactured cigarettes, had smoked handrolled cigarettes, had smoked a pipe, had smoked as much as one cigar a week in 1980 and, for those who said they smoked manufactured cigarettes, the number they had smoked on average and the brand smoked most often. These answers can be compared with answers to similar questions asked in 1980, although the questions about manufactured cigarettes are not exactly comparable - the original questions asked how many cigarettes were smoked yesterday and what was the last brand bought.

9.1 Recall of types of product smoked

Table 21 compares 1985 memory with actual 1980 statements for each smoking product and for a summary of overall smoking. For manufactured cigarette smoking and for overall smoking of any product, there was about an 8% discrepancy rate, with most of the discrepancies being cases where the subject had not stated smoking in 1980 but recalled smoking when asked in 1985. That is, more subjects overstated than understated their past smoking habits. The discrepancy rate was slightly higher for men than for women, but was not obviously age-related (as illustrated in Table 22, which shows results for manufactured cigarettes broken down by age).

For men, the percentages with discrepant answers were 8.8 for handrolled, 6.4 for pipes, 10.8 for cigars. For handrolled and cigars, the rate of discrepancy was similar in both directions.

Within the 127 men who stated both in 1985 and in 1980 that they smoked in 1980, there was disagreement in 40 cases (31.5%) about the type of product smoked, when subjects were classified according to manufactured only, handrolled only, or both , pipe only, cigars only, or both, or cigarettes and pipe/cigar (see Table 23). In all but 2 of these cases, the discrepancy was between one product and mixed including that product, with the rate similar in both directions.

However, if these answers were used to assess the products smoked overall, rather than on an individual basis, very little discrepancy would be seen (Table 24).

In Research Paper 2A, it was found that subjects tended to make errors of recall more in the direction of their own current habits than in the reverse direction. For a simple yes/no breakdown of smoking for a particular type of product, this finding can be tested by comparing, given the 1980 statement, the proportion who recall correctly among those who have not changed their habits with the corresponding proportion among those who have changed their habits. Results for individual types of

product and for any product are given in <u>Table 25</u>. As can be seen our results fit in well with the conclusions of RP2A, in all 10 comparisons made, the percentage who recalled incorrectly being higher, usually very markedly, where 1980 and 1985 habits differed than where they were the same.

Recall of all types of products smoked, as classified above, is examined further in <u>Tables 26 and 27</u> broken down by 1985 smoking habits. Although the numbers in some categories are small, it can be seen that recall of types of product was most accurate among those still smoking the same product(s) (91.7%). Those who had given up smoking by 1985 recalled more accurately (66.7%) than those who had changed product(s) (50.0%). Among those who had changed products and who recalled inaccurately, 60% stated the same products as their current smoking, i.e. they thought they had not changed products.

9.2 <u>Recall of number of manufactured cigarettes smoked</u>.

Within those subjects who reported on both occasions that they had smoked manufactured cigarettes in 1980, there was considerable discrepancy as regards the number reported to be smoked (<u>Table 28</u>). Even when number smoked was divided into only 3 categories (-17, 18-22, 23+) as many as 86 out of 219 (39%) of manufactured cigarette smokers recalled a different category from that originally reported.

The question as to whether recall of past smoking was based more on current smoking than on actual past smoking, was examined in 3 ways.

Firstly, the correspondence between the two statements about 1980 smoking was examined separately for each level of 1985 smoking. This is shown in Table 29, which is based on all subjects who smoked manufactured cigarettes either in 1980 or 1985. If the recall statement reflected the actual 1980 statement, then the figures would appear grouped down the diagnonal of each sub-table; on the other hand, if recall was based on current (1985) smoking, then the figures would congregate around the row corresponding to the 1985 level. In fact, the figures seen are:

1985 statement	Recall statement corresponds with 1980 statement (diagonal)		Recall statement corresponds with 1985 statement (row)		Total number of subjects
	N	%	N	%	
0- 7	49	59.0	25	30.1	83
8-17	38	53.5	32	45.1	71
18-22	26	45.6	40	70.2	57
23-32	7	31.8	11	50.0	22
33+	4	50.0	7	87.5	8

This suggests that accuracy of recall was greater among those smoking small amounts in 1985, and that the tendency to base recall upon current smoking is greater among heavier smokers.

The second approach was to consider the change in smoking level from 1980 to 1985. Assuming for the moment that the statements made about current smoking at both times were accurate, a subject whose smoking had not changed had an easier task recalling past smoking; also, subjects who had reduced their smoking level might be expected to understate their past smoking. Table 30 gives details, by amount changed between 1980 and 1985, of the proportion who, from their recall in 1985, understated or overstated 1980 habits, or were approximately correct.

This confirms that those who had not changed were indeed most likely, with 67%, to recall accurately. Of those who had reduced by a small amount, 39% recalled accurately, while of those with larger reductions or any increase, only 20-30% recalled accurately. Among those who did not recall accurately, those whose smoking had reduced were somewhat more likely to understate than overstate (62.2% against 37.8%), whereas those whose smoking had increased tended overwhelmingly to overstate (10.5% against 89.6%).

Table 30 also cross-tabulates recalled change in smoking level against actual change. It can be seen that, of 53 subjects who had actually increased their number smoked, as many as 29 (54.7%) recalled no change, basing their recalled answer on current levels. This tendency was less marked in those who had actually decreased their number smoked (33 out of 131 = 25.2%). The number recalling no change when one had actually occurred (62) considerably exceeded the number recalling a change when none had occurred (21).

Finally, the possibility that 1980 recall was affected by 1985 smoking habits was examined by testing whether 1985 recall of manufactured cigarette smoking habits correlated more closely with 1985 statements of habits than with 1980 statements. This was done for all subjects who had smoked manufactured cigarettes in either 1980 or 1985, separately for those whose smoking had increased or decreased.

Among those who had increased their smoking level, the correlation between recall and 1985 smoking (.79) was stronger than the correlation between recall and 1980 smoking (.63). However, among those who had decreased their smoking, the correlation between recall and 1985 (.13) was considerably weaker than between recall and 1980 (.52).

9.3 Recall of brand smoked

For those who reported on both occasions smoking manufactured cigarettes in 1980, the brand reported in 1980 to have been last bought was compared with the brand reported in 1985 to have been smoked most often in 1980. This was restricted to those 191 smokers of manufactured cigarettes who gave a specific brand in 1980, who recalled a specific 1980 brand in 1985, and who in 1985 stated they either smoked a specific brand or were a non-smoker. The rate of agreement was fairly low (45.0%). When the brands were used to determine if the subject smoked plain or filter, there was much better agreement, with only 1 discrepancy out of the 16 who originally stated they smoked plain, and 2 discrepancies out of 175 filter smokers.

7 subjects recalled a brand that was not available in 1980.

When the brands were used additionally to determine cigarette size, there was a 67.0% agreement rate, with the discrepancy rate the same in both directions, 30 of the 173 consistent filter smokers recalling a larger size than reported originally and 30 recalling a smaller size (Table 31).

Appendix F lists details of the relevant brands smoked. Table 31 also contains a summary breakdown of the findings. Not surprisingly, recall of the 1980 brand was most often correct when the subject continued to smoke the same brand in 1985 as in 1980 (41/52 = 78.9%). Recall of the 1980 brand was more often correct among those who were not smoking manufactured cigarettes in 1985 (23/48 = 47.9%) than among those who continued to smoke manufactured cigarettes but had changed their brand (22/91 = 24.2%). Among the 69 incorrect recalls of 1980 brand in the latter group, 20 of them were cases where the brand recalled was actually that smoked in 1985. This proportion (29.0%) is much greater than expected by chance (2.2%) and is further evidence that, when recalling, smokers tend to err in the direction of their current habits.

10. Memory of events prior to 1980

Similar questions were asked in both surveys about age finished full-time education, age started smoking, year when gave up smoking, which products smoked at the time of giving up smoking and the number of manufactured cigarettes smoked at the time of giving up smoking. The answers on the 2 occasions were compared respectively for the 5 questions in Tables 32-36.

Most subjects might be expected to have a fixed idea as to the age at which they finished their full-time education. However, when classified as up to 15,16,17,18,19-23 or 24/not finished, there was a discrepancy rate of 19.4%, or 3.4% by more than 1 category (Table 32).

When comparing age of starting to smoke among those who claimed at both times to have ever smoked, the subjects were classified as starting under 12, 12-13, 14-15, 16-17, 18-19, 20-24 or 25+. The rate of discrepancy by more than one category was 10.2% for men and 6.3% for women. The majority of these men and all of these women claimed younger starting in 1980 than they did in 1985. All those who claimed to have started older (by more than one category) in 1980 than in 1985 were aged 45 or over (Table 33).

For 72 subjects who claimed on both occasions to be ex-smokers, the year of giving up smoking was compared, classified as up to 1940, 1941-50, 1951-60, 1961-65, 1966-70, 1971-75, 1976-80 and 1981-85. 9 subjects stated in 1985 that they had given up since 1980, and they may indeed have restarted and stopped in this period. However, as 8 of them stated in 1980 to have given up in 1976-80, it seems likely that some at least of these are discrepancies in memory. Of the remaining 63 subjects, there were 39.7% discrepancies, or 3.2% (2 subjects) by more than one category (Table 34).

Which products were smoked at the time of giving up were compared for 38 men, classified as manufactured or handrolled cigarettes, or both, pipe, cigars, or both, cigarettes and pipe and/or cigars (Table 35). 19 men agreed smoking only manufactured cigarettes, and a further 4 agreements left 15 (39.5%) discrepancies. All but 2 of these were between smokers of cigarettes only and smokers of multiple products including cigarettes. Table 35 also shows that of 25 women, there was only 1 discrepancy, a woman who reported smoking manufactured cigarettes only in 1980 but manufactured plus handrolled in 1985.

For those subjects who in 1980 claimed to be ex-smokers of manufactured cigarettes and who in 1985 claimed also to be ex-smokers, having given up before 1980, the number of

manufactured cigarettes smoked, grouped into 7 categories (1-7, 8-12,13-17, 18-22, 23-27, 28-32 and 33+) was compared (Table 36). Of the 71 subjects, 40 (56.3%) reported the same category, a further 18 (25.4%) reported only one category different, while 13 (18.3%) reported a difference of more than one category.

11. Change in smoking habits between 1980 and 1985

Data on smoking habits measured at two time points, apart from being used to detect inconsistencies in statements made, can also be used to determine what changes have occurred and how they relate to other factors. This latter use, though not strictly related to the objectives of the study, was investigated by carrying out analyses of changes in smoking habits between 1980 and 1985 after excluding those subjects that gave type I, II or III inconsistent answers. As noted in Section 8, no subjects claimed to have started smoking since 1980.

Table 37 gives, broken down by age, sex, change in social class and change in employment status, the proportions of subjects who had changed from being an ex-smoker in 1980 to being a smoker in 1985 and vice versa. Overall, the fact that 53 subjects had become ex-smokers as against only 11 subjects who had become smokers, confirms the general downward trend in percentages of smokers evident from sales statistics and annual surveys. This general trend was evident in all subgroups with adequate numbers.

The tendency to give up smoking was slightly but not significantly more marked in men than in women, but was not obviously age-related. In men, there was no relation between

change in social class and giving up smoking, but in women there was a tendency for those who had increased social class to be more likely to give up (p<0.05). No significant relationship of change in smoking habits to change in employment status was seen, though it was interesting that in men, the highest proportion of those giving up smoking was in the group who had become unemployed.

The tendency to restart smoking could only show up gross differences by the factors studied, due to the small numbers. The only significant difference found was a tendency for younger men to take up smoking more than older men (p<0.05).

Table 38 compares products smoked in 1980 and 1985. In both sexes, marked reductions have occurred in the number who smoked manufactured cigarettes only. No discernible changes have occurred in respect of other products.

Table 39 compares numbers of manufactured cigarettes smoked in 1980 and 1985. In men, 17 (23.6%) reported smoking in the same group, 34 (47.2%) reported a decrease and 21 (29.2%) an increase. In women, 38 (38%) reported smoking in the same group, 43 (43%) reported a decrease and 19 (19%) an increase.

As shown in Table 40, only 10 plain smokers were seen in 1980, 9 of them male. By 1985, 3 of these had switched to filter, with none switching to plain.

12. Digit preference

One indication of possible inaccuracy about the recording of number of manufactured cigarettes smoked is the tendency to record numbers divisible by 10 or by 5. Although there is no doubt some smokers do in fact buy one (or two) packets a day, this tendency, as illustrated in Table 41, is so strong as to suggest most smokers mentally round the numbers they report smoking. Thus, in 1980, over half of men (57.7%) and almost half of women (44.4%) who reported smoking manufactured cigarettes, stated a number ending in a zero, with about 40% of the remainder in both sexes stating a number ending in a five. In 1985, the tendency to round was slightly less marked than in 1980, 48.7% of men and 34.6% of women stating a number ending in a zero, with about 30% of the remainder in both sexes stating a number ending in a five. The tendency to round was greatest of all for 1985 recall of 1980 smoking habits, with 68.1% of men and 57.9% of women stating a number ending in a zero and some 60% of the remainder in both sexes stating a number ending in a five. Since recall related to average number smoked in 1980, whereas current smoking related to yesterday (or Saturday on half the interviews carried out on Monday), it was not surprising that the tendency to round was greatest for the recall situation.

13. Inconsistency of age related to inconsistency of smoking habits

As noted in Section 6, a number of inconsistencies were seen in the ages given at the two surveys. Although it is possible that some of these inconsistencies may be due to the interviewer falsifying the age to fit the survey quota, the remainder can be attributed to the subject giving an unreliable response, or declining to respond at all. It is of interest to examine if inconsistency of age was related to the inconsistencies we have discussed in statements about smoking habits.

Accordingly, comparisons of inconsistency rates were made between those 390 subjects who had a between-survey age difference of 4 to 5 years, those 106 subjects who had a between-survey age difference of 1 to 9 years (other than 4 to 5 years) and those 44 subjects who had a between-survey age difference other than 1 to 9 years. Results are given in Table 42, which classifies subjects into 7 categories; Type I, II or III inconsistent, consistent never smoker, consistent smoker/ex-smoker with ages of starting consistent, 1 or 2 years different, or 3 or more years different.

The proportion of the total population with Type I, II or III consistency can be seen from Table 42 to be lower in those with the expected between-survey age difference of 4 to 5 years (20/390=5.1%) than in those with other age-differences

(14/106=13.2% for other 1 to 9 year differences; 4/44=9.1% for other differences). The last two percentages did not differ significantly, but the first was significantly (p<0.01) lower than the other two combined.

The remainder of the population can be divided into those who consistently stated they had never smoked and those who consistently stated they smoked or had smoked in the past. Among those who were consistent smokers/ex-smokers one can compare the percentage who gave an age of starting to smoke on the two occasions which differed by 3 years or more (or who on one or both of the occasions failed to remember the age of starting to smoke at all). Again this proportion was less in those with the expected between-survey age difference of 4 to 5 years (62/256=24.2%) than in those with other age-differences (23/67=34.3% for other 1 to 9 year differences; 7/27=25.9% for other differences). For this indicator of inconsistency, the first percentage did not differ significantly (0.05<p<0.1) from the other two combined.

Some attempt was made to gain further insight into this question by relating inconsistency on smoking habits and on age to other types of inconsistency. Tables 43 and 44 give information relating to consistency of statements about age of finish of education. It can be seen that, given between-survey age difference, neither the proportion of the total population with type I, II or III inconsistency (Table 43) nor the

proportion of consistent smokers/ex-smokers with inconsistent ages of starting to smoke (Table 44) related to whether the two statements made about age of finish of education were, or were not, inconsistent.

Tables 45 and 46 show that, among consistent ex-smokers, the proportion with inconsistent ages of starting to smoke (given between-survey age difference) did not obviously relate to whether or not statements about the year of stopping smoking or the number of cigarettes smoked at the time of stopping were consistent. However, numbers in these tables are rather small.

14. Comparison with findings of Research Papers 2 and 2A

Although the present study was conducted generally along similar lines to the original study, a number of differences make detailed comparisons difficult:

(a) Research Papers 2 and 2A (RP2, RP2A) did not give the questionnaires used.

(b) No details were described of the procedure for following-up people.

(c) No assessment was made of consistency of answers about age or any other non-smoking factor.

(d) At the original interview, the subjects appear only to have been asked about current smoking, while at the follow-up interview they were first asked if they currently smoked, then if they smoked at the time of the previous interview and, only if they said no to both questions were they asked if they had ever smoked regularly. Hence, it is not possible to identify inconsistent groups as in the present study. However, they did note that in the 1952 Memory Enquiry (of 982 men and 306 women), there were no men but 6 women who were current smokers at the original interview but claimed never to have smoked at the follow-up interview (0.5% overall).

Similarly, in the 1957 Memory Enquiry, there were 6 such men ·(of 662 previously interviewed = 0.9%). These are equivalent to the 1980 current smokers among our Type I inconsistent group (0.7% overall, or 0.4% after adjustment for occasional smokers).

(e) Most attention was given in RP2 and RP2A to reliability of recall of smoking at the time of the previous interview. A number of comparisons can be made (section 14.1-14.4), but in the present study all the original interviews were conducted in the same year, hence we are not able to assess reliability over varying periods of time, nor to study a third interview with the subject, as in the 1957 Memory Study.

(f) Changes in the importance of some types of smoking (e.g. importance of handrolling in the 1940s, increased consumption of cigars, which were not studied at all in RP2) have made some comparisons difficult.

(g) In RP2 and RP2A quantities of handrolled and pipe tobacco smoked have been expressed as manufactured cigarette equivalents and used to calculate total tobacco consumption levels, whereas they were not measured in the present study.

14.1 Recall of type of product smoked

The two studies found similar levels of discrepancy in recalling smoking, or smoking a particular product; also that more subjects who had originally not smoked (or not smoked a particular product) incorrectly recalled having smoked, than subjects who had smoked originally but recalled incorrectly having been a non-smoker (Table 47).

In Table 23 we found that among subjects who correctly recalled being smokers 73.2 % recalled all types of products correctly (after grouping smokers of both cigarettes and pipe/cigar). This compares with 82.1% of subjects reinterviewed in 1952 (RP2, Table 10A, cigars not considered).

Both studies found that current smoking influenced accuracy of recall of which products were smoked. However, this tendency appears less marked in the present study (Table 48).

14.2 Recall of amount smoked

Both studies found considerable discrepancies in recall of amount smoked (Tables 49 and 50) and, as already discussed in section 9.2, that recall of amount smoked was influenced by current smoking levels (Tables 51 and 52). However, the

possibility that this tendency was stronger in heavier smokers, as in the present study, cannot be assessed from RP2.

14.3 Recall of brand smoked

RP2 found a high correct recall rate (77.8%)[*] in 1957 of the brand smoked in 1955/6, and that most of the incorrect recalls (presumably among subjects still smoking) were the same as the current brand (78.0%). This compares with 45.0% and 25.0% respectively (both sexes, after exclusion of unknown or unspecific brands) in the present study, and is presumably due to the smaller number of brands then available.

14.4 Digit preference

Both studies observed the tendency for subjects to state cigarette consumption in terms of round figures (Table 53).

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[*]

From Table 9B - N man cig smokers who in 1957 correctly recalled having smoked in 1955 or 1956 = 106+125-5-1=225.

From Tables 19A and 19B, N incorrectly recalling brand = 27+23=50.

15. Discussion

In most epidemiological studies of smoking and health, subjects are classified on a single occasion into those who have never smoked, those who have smoked in the past and those who currently smoke, with current smokers broken down by quantity smoked. It is clear that errors in classification will tend to bias the true relationship between smoking and the disease in question. If risk of the disease is greater in smokers than in non-smokers, the observed relationship with active smoking will tend to be less than actually exists when misclassification of smoking habits occurs. However, if the smoking habits of spouses are correlated, misclassification may tend to create an apparent positive effect of spouse's smoking on the risk of the disease in non-smokers when no true effect of passive smoking exists.

When a person claims never to have smoked, he may in fact be a current or an ex-smoker. The importance of an erroneous claim in assessing the relationship between active or passive smoking and a disease will tend to be greater for current than ex-smokers and for heavy than light smokers. That someone ignores having smoked 2 cigarettes a day 30 years ago may matter little, but denial of current smoking of 40 a day may cause severe bias.

Elsewhere, using salivary cotinine measurements, an attempt is being made to detect the proportion of people who claim to be non-smokers but who in fact currently smoke. One major objective of the current study is to gain some insight into the additional proportion who claim never to have smoked, but who have smoked in the past, by comparing statements made at different points in time. It is realised, of course, that this will still not determine the full extent of false claims about never having smoked, as there may well be some subjects who in fact gave up some years ago but who denied ever having smoked at each interview.

Table 54 summarises the cases observed of the 3 types of inconsistency we have defined, regarding smoking of any product:

Type I   :   never smoked in 1985, current or ex-smoker
                  in 1980.

Type II   :   never smoked in 1980, current or ex-smoker
                  in 1985 having started before 1980.

Type III   :   current smoker in 1980, ex-smoker in 1985
                  having given up before 1980.

These involve 38 subjects out of the 540 studied (7.0%). As we have demonstrated in section 8, and is clear from Table 54 anyway, the great majority of Type I and II inconsistencies relate to cases where on one occasion the subject reported having smoked in the past and on the other having never smoked at all

(29/36 = 80.6%). Also, the quantity reported to have been smoked (when owned up to) was often quite low. Even so, of the total of 36 type I and II discrepancies, there were 18 where 10 or more cigarettes a day was reported on one occasion. If one arbritrarily defines this as a "major inconsistency", this gives the result:

Type I "major" : 8 out of 166 1985 never smokers = 4.8%

Type II "major" : 10 out of 174 1980 never smokers = 5.7%

Of the 18 "major inconsistencies", 1 relates to the subject reporting being a current smoker on one occasion, 17 to subjects reporting being ex-smokers.

In summary, we have observed that misclassification of smoking habits occurs and also that there is a marked positive correlation between spouse's smoking habits. The extent to which a bias resulting from a combination of these factors may explain the observed passive smoking/lung cancer association will be discussed at a later stage when the additional evidence from the salivary cotinine study becomes available.

TABLE 1

Concordance between husband's and wife's smoking habits

Percentage (base) whose spouse smokes by subject's own
manufactured cigarette smoking habits and by sex, age or social class

	Subject's own man. cig. smoking habits				
	Never	Ex	0-17/day	18-22/day	23+/day
All subjects	27.2(1587)	30.9(922)	47.5(775)	49.8(522)	56.4(479)
Male	22.5(685)	27.8(587)	38.2(296)	45.7(276)	53.4(324)
Female	30.8(902)	36.4(355)	53.2(479)	54.5(246)	62.6(155)
Age 25-34	25.6(480)	29.7(185)	54.1(220)	58.9(141)	60.8(130)
35-44	27.7(476)	32.5(265)	47.8(226)	54.6(152)	63.3(158)
45-54	28.8(309)	28.9(187)	42.6(148)	44.9(127)	53.8(104)
55-65	27.3(322)	31.6(285)	43.1(181)	36.3(102)	40.2(87)
Social class ABC1	20.7(701)	25.1(415)	44.3(309)	45.3(159)	56.3(160)
C2DE	32.4(886)	35.7(507)	49.6(466)	51.8(363)	56.4(319)

Odds, relative to a never smoker, of having a spouse who smokes
(adjusted for sex, age and social class) with 95% confidence
limits in brackets

	Never	Ex	0-17/day	18-22/day	23+/day
All subjects	1	1.30 (1.08-1.56)	2.35 (1.96-2.81)	2.60 (2.12-3.19)	3.56 (2.88-4.40)

TABLE 2

Concordance between manufactured cigarette smoking habits
of subject and other household members

A. Unmarried subjects - Percentage (base) where another household
member smokes manufactured cigarettes by subject's own manufactured
cigarette smoking habit, sex and household size

		Subject's own man. cig. smoking habits				
		Never	Ex	0-17/day	18-22/day	23+/day
	Household size*					
Male	1	31.0(29)	27.6(29)	28.6(14)	30.0(10)	47.1(17)
	2	61.9(21)	50.0(12)	54.5(11)	50.0(14)	63.2(19)
	3+	50.0(10)	75.0(8)	75.0(8)	90.0(10)	100.0(10)
	All**	45.7(60)	45.2(49)	47.2(33)	49.4(34)	63.6(46)
Female	1	23.4(47)	26.3(19)	33.3(10)	29.2(24)	46.7(15)
	2	39.1(23)	62.5(8)	25.0(16)	75.0(4)	75.0(8)
	3+	52.6(19)	0.0(1)	66.7(3)	50.0(4)	100.0(4)
	All**	32.3(89)	32.7(28)	36.0(29)	45.8(32)	62.9(27)

* Adults in household apart from the subject and spouse.
A few subjects claiming more smokers than adults in the household have
been omitted.

** Standardised to household size distribution for given sex and marital
status.

TABLE 2 (contd.)

Concordance between manufactured cigarette smoking habits
of subject and other household members

B. Married subjects - Percentage (base) where another
household member other than the spouse smokes manufactured
cigarettes by subject's own manufactured cigarette smoking habit,
sex and household size

| | Household size* | Subject's own man. cig. smoking habits | | | | |
		Never	Ex	0-17/day	18-22/day	23+/day
Male	1	19.4(93)	15.2(112)	22.0(50)	23.4(47)	30.9(55)
	2	19.0(42)	24.4(41)	60.0(15)	25.0(20)	40.9(22)
	3+	50.0(20)	50.0(18)	60.0(10)	33.3(9)	55.6(9)
	All**	22.9(155)	21.6(171)	35.9(75)	25.0(76)	36.3(86)
Female	1	14.8(169)	28.6(63)	37.9(87)	23.9(46)	24.0(25)
	2	28.4(74)	18.8(32)	53.3(30)	68.2(22)	66.7(15)
	3+	70.0(20)	0.0(2)	63.6(11)	60.0(5)	25.0(4)
	All**	22.5(263)	23.8(97)	44.1(128)	39.1(73)	36.3(44)

* Adults in household apart from the subject and spouse.
A few subjects claiming more smokers than adults in the household have been omitted.

** Standardised to household size distribution for given sex and marital status.

TABLE 2 (contd./1)

Concordance between manufactured cigarette smoking habits
of subject and other household members

C. Odds, relative to a never smoker, of another household member
other than the spouse smoking (adjusted for age, sex, social
class, marital status and household size) with 95% confidence
limits in brackets

	Subject's own man. cig. smoking habits				
Never	Ex	0-17/day	18-22/day	23+/day
1	1.14	1.74	1.54	2.26
	(0.81,1.61)	(1.25,2.41)	(1.07,2.23)	(1.57,3.26)

TABLE 3

Comparison of ages as recorded in 1980 and 1985

1980 age group	1985 age group								
	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65+
25-29	8	35	4	0	0	0	0	0	1
30-34	1	5	45	12	2	2	0	0	0
35-39	0	3	15	71	3	2	0	0	0
40-44	0	0	1	9	63	3	2	0	0
45-49	0	0	1	1	10	54	4	0	0
50-54	0	0	0	0	0	8	50	1	1
55-59	0	0	1	0	0	1	4	53	3
60-64	0	1	0	0	0	0	7	19	37
65+	0	0	0	0	0	0	0	0	12

Ringed entries are subjects more than 1 age group out from that expected.

TABLE 4

Comparison of ages recorded in 1980 and 1985 after exclusion of 15 reject follow-up questionnaires

		1985 age group								
		25-29	30-34	35-39	40-44	45-59	50-54	55-59	60-64	65+
1980 age group	25-29	8	35	4	0	0	0	0	0	0
	30-34	1	5	45	9	2	1	0	0	0
	35-39	0	2	15	70	3	1	0	0	0
	40-44	0	0	1	9	63	3	2	0	0
	45-49	0	0	0	1	10	54	3	0	0
	50-54	0	0	0	0	0	8	50	1	1
	55-59	0	0	0	0	0	1	4	53	3
	60-64	0	0	0	0	0	0	6	18	36
	65+	0	0	0	0	0	0	0	0	12

TABLE 5

Difference between age as stated in 1980 and in 1985

Age group (1980)	Age difference	Male N	%	N estimate	Female N	%	N estimate	Total N	%	N estimate
25-34	<-2	0	0.0	0	1	1.6	0	1	0.9	0
	-2,-1	0	0.0	0	0	0.0	0	0	0.0	0
	0,1	0	0.0	0	2	3.2	0	2	1.8	0
	2,3	4	8.5	0	5	8.0	1	9	8.1	1
	4,5	32	68.1	0	43	68.3	0	75	68.2	0
	6,7	4	8.5	0	7	11.1	0	11	10.0	0
	8,9	4	8.5	2	4	6.3	1	8	7.3	3
	10,11	1	2.1	0	0	0.0	0	1	0.9	0
	12+	2	4.3	0	1	1.6	0	3	2.7	0
35-44	<-2	0	0.0	0	2	2.3	1	2	1.2	1
	-2,-1	1	1.2	0	0	0.0	0	1	0.6	0
	0,1	3	3.7	0	1	1.1	0	4	2.4	0
	2,3	5	6.2	2	10	11.4	1	15	8.8	3
	4,5	58	71.6	0	67	76.2	1	125	74.0	1
	6,7	7	8.7	1	5	5.6	0	12	7.1	1
	8,9	3	3.7	0	1	1.1	0	4	2.4	0
	10,11	1	1.2	0	1	1.1	0	2	1.2	0
	12+	3	3.7	2	1	1.1	0	4	2.4	2
45-54	<-2	0	0.0	0	1	1.8	0	1	0.8	0
	-2,-1	0	0.0	0	2	3.6	2	2	1.6	2
	0,1	1	1.4	0	2	3.6	0	3	2.3	0
	2,3	3	4.2	0	1	1.8	1	4	3.1	1
	4,5	56	77.7	0	46	82.2	1	102	79.7	1
	6,7	7	9.7	0	2	3.6	0	9	7.1	0
	8,9	3	4.2	0	1	1.8	1	4	3.1	1
	10,11	2	2.8	0	1	1.8	0	3	2.3	0
	12+	0	0.0	0	0	0.0	0	0	0.0	0

TABLE 5 (contd.)

Difference between age as stated in 1980 and in 1985

		Male			Female			Total		
Age group (1980)	Age difference	N	%	N estimate	N	%	N estimate	N	%	N estimate
55-65	<-2	2	3.4	0	4	5.4	0	6	4.5	0
	-2,-1	0	0.0	0	3	4.1	0	3	2.3	0
	0,1	2	3.4	0	2	2.7	0	4	3.0	0
	2,3	5	8.5	1	5	6.8	3	10	7.6	4
	4,5	38	64.4	0	50	67.6	1	88	66.1	1
	6,7	4	6.8	1	9	12.2	0	13	9.8	1
	8,9	4	6.8	0	0	0.0	0	4	3.0	0
	10,11	0	0.0	0	1	1.4	0	1	0.8	0
	12+	4	6.8	1	0	0.0	0	4	3.0	1
Total	<-2	2	0.8	0	8	2.8	1	10	1.9	1
	-2,-1	1	0.4	0	5	1.8	2	6	1.1	2
	0,1	6	2.3	0	7	2.5	0	13	2.4	0
	2,3	17	6.5	3	21	7.5	6	38	7.0	9
	4,5	184	71.1	0	206	73.3	3	390	72.3	3
	6,7	22	8.5	2	23	8.2	0	45	8.3	2
	8,9	14	5.4	2	6	2.1	2	20	3.7	4
	10,11	4	1.5	0	3	1.1	0	7	1.3	0
	12+	9	3.5	3	2	0.7	0	11	2.0	3

TABLE 6

Consistency of 1980 and 1985 statements about smoking habits - any product

			1980 Statement		
1985 Statement			**Current**	**Ex**	**Never**
Current	**Started**				
	DK		24	3	1(II+)
	pre 1980		187	8	2(II)
Ex	**Started**	**Stopped**			
	DK	DK	1(III*?)	0	0
	DK	pre 1980	0	2	1(II+)
	DK	1980 or after	1	0	0
	pre 1980	DK	1(III*?)	2	0
	pre 1980	pre 1980	2(III*)	56	14(II)
	pre 1980	1980 or after	50	15	4(II)
Never			4(I*)	10(I)	152

N.B.   There were no subjects who   1. started smoking after 1980
                                    2. claimed to stop before they started

I,II,III indicate various types of inconsistency (see text)
*   may include occasional smokers
?   uncertain, as year gave up was not stated
+   assuming started before 1980

TABLE 7

Type I inconsistency of statements about smoking status

		Total subjects (a)	Never smokers 1985 1980 current (b)	1980 ex (c)	1980 never (d)	Total (e)	% Type I Inconsistency Overall b+c% / a	of never smokers b+c% / e
Manufactured cigarettes								
Male	25-34	47	1	2	14	17	6.4	17.6
	35-44	81	2(1)	2	22(23)	26	4.9(3.7)	15.4(11.5)
	45-54	72	0	2	12	14	2.8	14.3
	55-65	59	0	3	7	10	5.1	30.0
	Total	259	3(2)	9	55(56)	67	4.6(4.2)	17.9(16.4)
Female	25-34	63	0	1	28	29	1.6	3.4
	35-44	88	1(0)	2	30(31)	33	3.4(2.3)	9.1(6.1)
	45-54	56	1(0)	1	21(22)	23	3.6(1.8)	8.7(4.3)
	55-65	74	0	0	28	28	0.0	0.0
	Total	281	2(0)	4	107(109)	113	2.1(1.4)	5.3(3.5)
Sexes combined	Total	540	5(2)	13	162(165)	180	3.3(2.8)	10.0(8.3)
Hand-rolled cigarettes								
	Male	259	7	3	178	188	3.9	5.3
Pipe								
	Male	259	3	6	189	198	3.5	4.5
Cigars								
	Male	259	9	4	198	211	5.0	6.2
Any product								
Male	25-34	47	1	1	14	16	4.3	12.5
	35-44	81	0	1	18	19	1.2	5.3
	45-54	72	1	0	10	11	1.4	9.1
	55-65	59	0	4	4	8	6.8	50.0
	Total	259	2	6	46	54	3.1	14.8
Female	25-34	63	0	1	28	29	1.6	3.4
	35-44	88	1(0)	2	30(31)	33	3.4(2.3)	9.1(6.1)
	45-54	56	1(0)	1	21(22)	23	3.6(1.8)	8.7(4.3)
	55-64	74	0	0	27	27	0.0	0.0
	Total	281	2(0)	4	106(108)	112	2.1(1.4)	5.4(3.6)
Sexes combined	Total	540	4(2)	10	152(154)	166	2.6(2.2)	8.4(7.2)

N.B. Bracketed figures are adjusted (see text)

TABLE 8

Listing of data for subjects with Type I inconsistent status for smoking manufactured cigarettes

(Never smoked man.cigs in 1985, but current or ex-smoker of man.cigs in 1980)

Serial	1980 Man.cig. smoking	*	Year gave up (any product)	Other smoking products 1980			1985			Sex	Age 1980	Age 1985
				HR	Pipe	Cigar	HR	Pipe	Cigar			
11451	Current	20	-	N	N	N	N	N	N	M	34	46
12290	Current	12	-	N	N	N	N	C	N	M	36	41
12507	Ex	10	80	N	N	N	N	N	N	M	40	50
12525	Current	6	-	C	N	N	C	N	N	M	35	35
13065	Ex	20	65	N	N	N	N	N	N	M	55	61
13071	Ex	20	69	N	N	N	N	N	N	M	33	38
13084	Ex	20	-	C	Ex	N	C	N	N	M	54	59
13199	Ex	20	74	N	N	Ex	N	N	N	M	63	67
13395	Ex	4	35	N	N	N	N	N	N	M	60	72
13594	Ex	10	-	N	C	N	N	N	N	M	49	52
13878	Ex	5	80	N	N	N	N	C	N	M	35	37
14156	Ex	5	65	N	N	N	N	C	N	M	33	38
20273	Ex	3	missing	N	N	N	N	N	N	F	39	43
21082	Ex	20	63	N	N	N	N	N	N	F	37	42
21333	Ex	15	77	N	N	N	N	N	N	F	25	29
21855	Current	1	-	N	N	N	N	N	N	F	44	49
23237	Current	1	-	N	N	N	N	N	N	F	46	50
23367	Ex	5	64	N	N	N	N	N	N	F	51	57

N - never
C - current

* Current smokers - number smoked yesterday; ex-smokers - average number smoked per day when gave up

TABLE 9

Listing of data for subjects with Type I inconsistent status for smoking any product

(Never smoked in 1985, but current or ex-smoker in 1980)

		1980 smoking						Age	
Serial	Man.cigs	N man.cigs*	Handrolled	Pipe	Cigar	Year gave up	Sex	1980	1985
11451	Current	20	Never	Never	Never	-	M	34	46
12507	Ex	10	Never	Never	Never	80	M	40	50
13065	Ex	20	Never	Never	Never	65	M	55	61
13071	Ex	20	Never	Never	Never	69	M	33	38
13199	Ex	20	Never	Never	Ex	74	M	63	67
13286	Never	-	Never	Ex	Never	67	M	60	64
13395	Ex	4	Never	Never	Never	35	M	60	72
13594	Ex	10	Never	Current	Never	-	M	49	52
20273	Ex	3	Never	Never	Never	missing	F	39	43
21082	Ex	20	Never	Never	Never	63	F	37	42
21333	Ex	15	Never	Never	Never	77	F	25	29
21855	Current	1	Never	Never	Never	-	F	44	49
23237	Current	1	Never	Never	Never	-	F	46	50
23367	Ex	5	Never	Never	Never	64	F	51	57

* Current smokers - number smoked yesterday; ex-smokers - average smoked per day when gave up

TABLE 10

Duration of smoking among 1980 smokers (current or ex)
(excluding Type III inconsistent subjects)

| | | Years smoked up to 1980 | | | |
		1-10	11-20	21-30	31+
Subjects who reported never having smoked in 1985	N	5	2	5	1
	%	38.5	15.4	38.5	7.7
Subjects who reported being current or ex-smokers in 1985	N	29	96	84	128
	%	8.6	28.5	24.9	38.0

TABLE 11

Time of stopping smoking among 1980 ex-smokers

		Year of giving up+		
		Before 1960	1960-1969	1970-1980
Subjects who	N	1	5	3
reported never	%	11.1	55.6	33.3
having smoked				
in 1985				
Subjects who	N	6	14	43
reported being	%	9.5	22.2	68.3
ex-smokers in 1985				

+ As stated in 1980.

TABLE 12

Number of manufactured cigarettes smoked at time of giving
up among 1980 ex-smokers of manufactured cigarettes

		Number smoked at time of giving up		
		1-17	18-22	23+
Subjects who reported never having smoked manufactured cigarettes in 1985	N	8	5	0
	%	61.5	38.5	0.0
Subjects who reported being ex-smokers of manufactured cigarettes in 1985	N	24	19	32
	%	32.0	25.3	42.7

TABLE 13

Type II inconsistency of statements about smoking status - any product

		Total subjects (a)	Never smokers in 1980				% Type II inconsistency	
			1985 current (b)	1985 ex (c)	1985 never (d)	Total (e)	overall $\frac{b+c\%}{a}$	of never $\frac{b+c\%}{e}$
Male	25-34	47	0	1	14	15	2.1	6.7
	34-44	81	1	2	18	21	3.7	14.3
	45-54	72	1	3	10	14	5.6	28.6
	55-65	59	1	4	4	9	8.5	55.6
	Total	259	3	10	46	59	5.0	22.0
Female	25-34	63	0	2	28	30	3.2	6.7
	34-44	88	0	1	30	31	1.1	3.2
	45-54	56	0	1	21	22	1.8	4.5
	55-65	74	0	5	27	32	6.7	15.6
	Total	281	0	9	106	115 ·	3.2	7.8
Sexes combined	Total	540	3	19	152	174	4.1	12.6

TABLE 14

Listing of data for subjects with Type II inconsistent status
for smoking any product

(Never smoked in 1980, but current or ex-smoker in 1985,
having started smoking before 1980)

1985 smoking

Serial	Mancigs.	Nmancigs.	Hand-rolled	Pipe	Cigars	Year gave up	Sex	Age 1980	Age 1985	Year started *
10154	Ex	24	Ex	Never	Ex	76	M	41	46	55
10371	Ex	3	Never	Ex	Ex	81	M	50	58	·44
10738	Ex	6	Never	Never	Never	43	M	52	56	41
10971	Ex	10	Never	Never	Never	75	M	58	62	39
11795	Current	0	Never	Never	Never	-	M	44	49	50
12059	Ex	1	Never	Never	Never	44	M	63	67	missing
12678	Ex	10	Never	Never	Never	55	M	59	64	52
12762	Never	-	Never	Never	Current	-	M	57	62	43
12769	Ex	20	Never	Never	Never	60	M	48	51	52
13132	Ex	missing	Never	Never	Never	68	M	33	42	63
13428	Current	3	Never	Never	Never	-	M	45	50	missing
13789	Ex	5	Never	Never	Never	58	M	40	45	57
13792	Ex	99	Never	Never	Never	71	M	62	64	30
20123	Ex	10	Never	Never	Never	82	F	63	67	40
21003	Ex	5	Never	Never	Never	70	F	34	52	66
21430	Ex	10	Never	Never	Never	83	F	43	46	54
22261	Ex	1	Never	Never	Never	75	F	53	59	43
22294	Ex	10	Never	Never	Never	81	F	25	26	72
22319	Ex	20	Never	Never	Never	60	F	65	72	32
23612	Ex	20	Never	Never	Never	71	F	56	63	42
23801	Ex	5	Never	Never	Never	78	F	59	62	35
24338	Ex	1	Never	Never	Never	55	F	65	69	33

* Based on age as stated in 1980 and age of starting smoking, as stated in 1985.

TABLE 15

Duration of smoking among 1985 current or ex smokers
(excluding Type III inconsistent subjects)

| | | Years smoked up to 1985 | | | |
		1-10	11-20	21-30	31+
Subjects who reported never having smoked in 1980	N	7	0	5	9
	%	33.0	0.0	23.8	42.9
Subjects who reported being current or ex-smokers in 1980	N	14	64	91	149
	%	4.4	20.1	28.6	46.9

TABLE 16

Time of stopping smoking among 1985 ex-smokers

		Before 1960	1960-1969	1970-1980 [+]
			Year of giving up	
Subjects who reported never having smoked in 1980*	N	5	3	7
	%	33.3	20.0	46.7
Subjects who reported being ex-smokers in 1980	N	6	13	44
	%	9.5	20.6	69.8

+ As stated in 1985.
* And who in 1985 reported starting before 1980.

TABLE 17

Number of manufactured cigarettes smoked at time of giving up among 1985 ex-smokers of manufactured cigarettes

| | | Number smoked at time of giving up ** | | |
		1-17	18-22	23+
Subjects who reported never having smoked any product in 1980*+	N	12	3	2
	%	70.6	17.6	11.8
Subjects who reported being current or ex-smokers of any product in 1980+	N	52	38	54
	%	36.1	26.4	37.5

* And who in 1985 reported starting before 1980.
** As stated in 1985
\+ Time of starting and stopping was not available for individual products

TABLE 18

Listing of data for subjects with Type III inconsistent status

(1980 current smoker, 1985 gave up before 1980)

	1980 smoking				1985 smoking				Year started	Year gave up	Sex	Age	
Serial	MC	HR	PIPE	CGR	MC	HR	PIPE	CGR				80	85
10201	Ex40	N	N	C	Ex40	N	N	N	54	71	M	46	54
22819	N	C	N	N	N	Ex	N	N	39	79	F	58	63
22380	C12	N	N	N	Ex20	N	N	N	59	missing	F	37	43
23315	C8	N	N	N	Ex15	N	N	N	missing	missing	F	60	55

Key : N   = non-smoker,   C = current smoker,   Ex = ex-smoker
MC = manufactured cigarettes,   HR = handrolled,   CGR = cigar

TABLE 19

Smoking by spouse in 1980, by consistency of statements about own smoking habits

A. Married subjects

	1 % (base) where spouse smokes		2 % (base) with smoker other than spouse	
Type I inconsistent	38.5	(13)	20.0	(5)
Type II inconsistent	11.1	(18)	0.0	(5)
Type III inconsistent	50.0	(2)	100.0	(1)
Consistent never smokers	29.2	(137)	28.9	(45)
Consistent smokers	45.4	(295)	32.7	(107)

B. Unmarried subjects

	3 % (base) with other smoker	
Type I inconsistent	-	(0)
Type II inconsistent	0.0	(2)
Type III inconsistent	-	(0)
Consistent never smokers	44.4	(9)
Consistent smokers	52.2	(23)

1. Married subjects.

2. Married subjects with adults in household apart from subject and spouse, but omitting any subjects claiming more smokers than adults in household.

3. Unmarried subjects with adults in household apart from subject, but omitting any subjects claiming more smokers than adults in household.

TABLE 20

Inconsistency rates among those whose spouse did or did not
smoke, and among those where another household member did or
did not smoke in 1980

A1. Married subjects

	Spouse smoked man.cigs in 1980	Total subjects	N with inconsistency	% with inconsistency
Type I inconsistency among 1985 never smokers	No	105	8	7.6
	Yes	45	5	11.1
	Total	150	13	8.7
Type II inconsistency among 1980 never smokers	No	113	16	14.2
	Yes	42	2	4.8
	Total	155	18	11.6
Type III inconsistency among 1980 current/1985 ex-smokers	No	24	1	4.2
	Yes	22	1	4.5
	Total	46	2	4.3

A2. Married subjects with other adults in household *

	Smoker other than spouse in household in 1980	Total subjects	N with inconsistency	% with inconsistency
Type I inconsistency among 1985 never smokers	No	36	4	11.1
	Yes	14	1	7.1
	Total	50	5	10.0
Type II inconsistency among 1980 never smokers	No	37	5	13.5
	Yes	13	0	0.0
	Total	50	5	10.0
Type III inconsistency among 1980 current/1985 ex-smokers	No	12	0	0.0
	Yes	9	1	11.1
	Total	21	1	4.8

* Excluding any subjects claiming more smokers than adults in household.

TABLE 21

Smoking habits in 1980 - Agreement between 1980 statements and 1985 recall statements

1980 statement	1985 statement	Male N	%	Female N	%	Overall N	%
Manufactured cigarettes							
Yes	Yes	101	39.9	123	44.4	224	42.3
No	No	128	50.6	139	50.2	267	50.4
Yes	No	6	2.4	2	0.7	8	1.5
No	Yes	18	7.1	13	4.7	31	5.8
	Total	253		277		530	
Handrolled cigarettes							
Yes	Yes	20	8.0	4	1.4	24	4.5
No	No	209	83.3	268	96.8	477	90.3
Yes	No	10	4.0	3	1.1	13	2.5
No	Yes	12	4.8	2	0.7	14	2.7
	Total	251		277		528	
Pipe							
Yes	Yes	17	6.8	0			
No	No	218	86.9	275			
Yes	No	5	2.0	0			
No	Yes	11	4.4	0			
	Total	251					
Cigars							
Yes	Yes	7	2.8	1	0.4	8	1.5
No	No	217	86.5	275	99.3	492	93.2
Yes	No	12	4.8	0	0.0	12	2.3
No	Yes	15	6.0	1	0.4	16	3.0
	Total	251		277		528	
Any product							
Yes	Yes	130	51.6	127	45.8	257	48.6
No	No	93	36.9	134	48.4	227	42.9
Yes	No	8	3.2	3	1.1	11	2.1
No	Yes	21	8.3	13	4.7	34	6.4
	Total	252		277		529	

TABLE 22

Smoking habits in 1980 - Agreement between 1980 statements
and 1985 recall statements - broken down by age

1980 statement	1985 statement	Male		Female		Overall	
		N	%	N	%	N	%

Manufactured cigarettes

25-34	Yes	Yes	18	39.1	27	45.0	45	42.5
	No	No	23	50.0	30	50.0	53	50.0
	Yes	No	0	0.0	0	0.0	0	0.0
	No	Yes	5	10.9	3	5.0	8	7.5
	Total		46		60		106	

35-44	Yes	Yes	27	34.2	43	48.9	70	41.9
	No	No	45	57.0	41	46.6	86	51.5
	Yes	No	2	2.5	1	1.1	3	1.8
	No	Yes	5	6.3	3	3.4	8	4.8
	Total		79		88		167	

45-54	Yes	Yes	27	39.1	24	42.9	51	40.8
	No	No	33	47.8	28	50.0	61	48.8
	Yes	No	3	4.3	1	1.8	4	3.2
	No	Yes	6	8.7	3	5.4	9	7.2
	Total		69		56		125	

55-64	Yes	Yes	29	49.2	29	39.7	58	43.9
	No	No	27	45.8	40	54.8	67	50.8
	Yes	No	1	1.7	0	0.0	1	0.8
	No	Yes	2	3.4	4	5.5	6	4.5
	Total		59		73		132	

TABLE 23

Type of product smoked in 1980 as stated in 1980 and as recalled in 1985

(restricted to men who stated smoking at both times)

1985 recall statement	MC	HR	MC+HR	1980 statement Pipe	Cigar	P + C	Cigs + P/C	Total
MC	64	1	2	0	0	0	7	74
HR	0	6	2	0	0	0	1	9
MC+HR	6	2	2	0	0	0	1	11
Pipe	0	1	0	7	0	0	0	8
Cigar	0	0	0	0	3	0	0	3
P + C	0	0	0	0	2	0	0	2
Cigs+P/C	3	0	4	2	0	0	11	20
Total	73	10	10	9	5	0	20	127

TABLE 24

Overall change in type of product smoked in 1980 as stated in 1980
and as recalled in 1985

(restricted to subjects who stated smoking at both times)

	1980 statement		1985 statement		Change	
	N	%	N	%	N	%
Men						
MC	73	57.5	74	58.3	+1	+0.8
HR	10	7.9	9	7.1	-1	-0.8
MC+HR	10	7.9	11	8.7	+1	+0.8
Pipe	9	7.1	8	6.3	-1	-0.8
Cigar	5	3.9	3	2.4	-2	-1.6
Pipe+cigar	0	0.0	2	1.6	+2	+1.6
Cigs+Pipe/cigar	20	15.7	20	15.7	0	0.0
Total	127		127			
Women						
MC	118	94.4	118	94.4	0	0.0
HR	3	2.4	2	1.6	-1	-0.8
MC+HR	3	2.4	4	3.2	+1	+0.8
Cigar	1	0.8	1	0.8	0	0.0
Total	125		125			

TABLE 25

Accuracy of recall of 1980 smoking habits according to 1985 smoking habits

1980 statement	1980 and 1985 statements same			1980 and 1985 statements differ		
	Correct recall (a)	Incorrect recall (b)	% Incorrect (100b/(a+b))	Correct recall (c)	Incorrect recall (d)	% Incorrect (100d/(c+d))
Manufactured cigarettes						
Yes	170	2	1.2	54	6	10.0
No	261	23	8.1	6	8	57.1
Handrolled cigarettes						
Yes	16	2	11.1	8	11	57.9
No	474	5	1.0	3	9	75.0
Pipe						
Yes	13	0	0.0	4	5	55.6
No	485	7	1.4	8	4	33.3
Cigar						
Yes	5	3	37.5	3	9	75.0
No	479	12	2.4	13	4	23.5
Any product						
Yes	205	4	1.9	52	7	11.9
No	225	22	8.9	2	12	85.7

TABLE 26

Type of product smoked in 1980 as stated in 1980 and as recalled in 1985, according to 1985 smoking products

(Restricted to men who stated smoking in 1980 in both interviews)

1985 recall statement	MC	HR	MC+HR	1980 statement Pipe	Cigar	P + C	Cigs + P/C	Total
a) Non-smoker in 1985								
MC	13	1	0	0	0	0	2	16
HR	0	1	0	0	0	0	0	1
MC+HR	1	1	0	0	0	0	0	2
Pipe	0	0	0	1	0	0	0	1
Cigar	0	0	0	0	1	0	0	1
P+C	0	0	0	0	1	0	0	1
Cigs+P/C	0	0	2	1	0	0	2	5
Total	14	3	2	2	2	0	4	27
b) 1985 products same as 1980 (original statement)								
MC	41	0	0	0	0	0	1	42
HR	0	3	0	0	0	0	0	3
MC+HR	0	1	2	0	0	0	0	3
Pipe	0	0	0	5	0	0	0	5
Cigar	0	0	0	0	0	0	0	0
P+C	0	0	0	0	1	0	0	1
Cigs+P/C	1	0	1	0	0	0	4	6
Total	42	4	3	5	1	0	5	60
c) 1985 products differ from 1980 (original statement)								
MC	10	0	2	0	0	0	4	16
HR	0	2	2	0	0	0	1	5
MC+HR	5	0	0	0	0	0	1	6
Pipe	0	1	0	1	0	0	0	2
Cigar	0	0	0	0	2	0	0	2
P+C	0	0	0	0	0	0	0	0
Cigs+P/C	2	0	1	1	0	0	5	9
Total	17	3	5	2	2	0	11	40

TABLE 27

Accuracy of recall of type of product smoked according to 1985 smoking habits

(Restricted to men who stated at both interviews that they smoked in 1980)

1980 statement	Correct recall (a)	Incorrect recall (b)	% Incorrect (100b/(a+b))	Incorrect recall but same as 1985 (c)	% of incorrect same as 1985 (100c/b)
Non-smoker 1985					
MC	13	1	7.1		
HR	1	2	66.7		
MC+HR	0	2	100.0		
Pipe/Cigars	2	2	50.0		
Cigs+P/C	2	2	50.0		
Total	18	9	33.3		
1985 products same as 1980					
MC	41	1	2.4		
HR	3	1	25.0		
MC+HR	2	1	33.3		
Pipe/Cigars	5	1	20.0		
Cigs+P/C	4	1	20.0		
Total	55	5	8.3		
1985 products differ from 1980					
MC	10	7	41.2	3	42.9
HR	2	1	33.3	1	100.0
MC+HR	0	5	100.0	4	80.0
Pipe/Cigars	3	1	25.0	0	0.0
Cigs+P/C	5	6	54.5	4	66.6
Total	20	20	50.0	12	60.0

TABLE 28

Number of manufactured cigarettes smoked in 1980
as stated in 1980 and as recalled in 1985

(restricted to subjects who stated smoking man.cigs at both times)

1985 recall statement		1980 statement 0-17	18-22	23+	Total
Male	1-17	17	3	2	22
	18-22	10	18	10	38
	23+	4	12	23	39
	Total	31	33	35	99
Female	1-18	42	10	5	57
	18-22	15	24	11	50
	23+	0	4	9	13
	Total	57	38	25	120
Total	1-17	59	13	7	79
	18-22	25	42	21	88
	23+	4	16	32	52
	Total	88	71	60	219

TABLE 29

Number of manufactured cigarettes smoked in 1980 as stated in
1980 and as recalled in 1985 - broken down by 1985
level of manufactured cigarette consumption

1985 statement	1985 recall of 1980	1980 statement 0-7	8-17	18-22	23-32	33+
0-7	0-7	18	4	2	1	0
	8-17	4	17	1	0	1
	18-22	2	3	7	2	1
	23-32	0	0	4	3	0
	33+	1	0	3	5	4
8-17	0-7	4	2	0	1	0
	8-17	3	19	9	1	0
	18-22	0	9	14	3	1
	23-32	0	2	2	0	0
	33+	0	0	0	0	1
18-22	0-7	1	0	0	1	0
	8-17	0	3	2	1	1
	18-22	3	9	17	6	5
	23-32	0	1	2	4	0
	33+	0	0	0	0	1
23-32	0-7	0	0	1	0	0
	8-17	0	0	0.	1	0
	18-22	1	1	3	2	1
	23-32	0	0	3	4	4
	33+	0	0	0	1	0
33+	0-7	0	0	0	0	0
	8-17	0	0	0	0	0
	18-22	0	0	1	0	0
	23-32	0	0	0	0	0
	33+	0	0	2	2	3

TABLE 30

Number of manufactured cigarettes smoked
Error in recall related to change in smoking between 1980 and 1985

	Error in recall						Total
	Understated		Correct (+/-2)		Overstated		
Change in smoking level (actual)	N	%	N	%	N	%	
Reduced by 13 or more	29	53.7	11	20.4	14	25.9	54
Reduced by 3-12	27	35.1	30	39.0	20	26.0	77
Unchanged within +/-2	6	10.3	39	67.2	13	22.4	58
Increased by 3-12	4	10.5	10	26.3	24	63.2	38
Increased by 13 or more	0	0.0	4	28.6	10	71.4	14

	Recalled change in smoking level				
	Down 13+	Down 3-12	Unchanged (+/-2)	Up 3-12	Up 13+
Changes in smoking level (actual)	N	N	N	N	N
Reduced by 13 or more	32	7	11	3	1
Reduced by 3-12	13	37	22	4	1
Unchanged within +/-2	2	13	37	6	0
Increased by 3-12	0	4	21	11	2
Increased by 13 or more	1	0	7	2	4

TABLE 31

Errors of recall in brand smoked

(a) Size and filter/plain classification as
stated in 1980 and as recalled in 1985

Brand stated in 1980	Filter						Plain	
	Sub A	A	Int	B	KS	>KS	A	B+C
Sub A Filter	3	1	0	0	3	0	0	0
A Filter	0	13	1	1	2	0	1	0
Intermediate Filter	0	1	9	0	4	0	0	0
B Filter	0	0	1	7	8	0	0	0
King Size Filter	1	3	8	12	76	10	0	1
> King Size Filter	0	0	0	2	2	5	0	0
A Plain	0	0	0	0	0	0	11	0
B and C Plain	0	0	0	0	0	1	0	4

Recall correct   128 ― 67.0%

Filter recalled correctly, size larger than
  originally reported   30 ― 15.7%

Filter recalled correctly, size smaller than
  originally reported   30 ― 15.7%

Filter reported in 1980, plain recalled   2 ― 1.0%

Plain reported in 1980, filter recalled   1 ― 0.5%

Total   191 ― 100.0%

TABLE 31 (continued)

Errors of recall in brand smoked

(b) Errors in brand name classified by manufactured
     cigarette smoking habits in 1985

Smoking habits in 1985	N	Recall of 1980 brand smoked		
Non-smoker of manufactured cigarettes	48	Correct Incorrect	23 = 47.9% 25 = 52.1%	
Smoker of manufactured cigarettes 1980 & 1985 brand unchanged	52	Correct Incorrect	41 = 78.8% 11 = 21.2%	
Smoker of manufactured cigarettes 1980 & 1985 brand differs	91	Correct Incorrect 　　As 1985 brand 　　Not 1985 brand 　　Total	22 = 24.2% 20 = 22.0% 49 = 53.8% 69 = 75.8%	

TABLE 32

Age finished education - consistency of answers given in 1980 and 1985

1985 statement	1980 statement					
	-15	16	17	18	19-23	24+/not finished
-15	323	32	3	0	1	0
16	21	50	7	2	1	2
17	4	5	22	8	0	0
18	1	1	6	5	1	1
19-23	2	0	1	2	26	2
24+/not finished	0	0	0	0	1	1

TABLE 33

Age started smoking - consistency of answers given in 1980 and 1985

| | 1980 statement | | | | | | |
1985 statement	<12	12-13	14-15	16-17	18-19	20-24	25+
<12	5	1	2	0	0	0	0
12-13	7	5	8	0	1	0	0
14-15	1	4	58	22	2	0	0
16-17	1	2	21	42	9	0	0
18-19	0	0	4	12	36	8	0
20-24	1	1	2	6	10	19	4
25+	0	0	2	0	1	3	10

TABLE 34

Year gave up smoking - consistency of answers
given in 1980 and 1985

(restricted to subjects who were ex-smokers in both 1980 and 1985)

| | 1980 statement | | | | | | |
1985 statement	<40	41-50	51-60	61-65	66-70	71-75	76-80
<40	0	0	0	0	0	0	0
41-50	1	3	0	0	0	0	0
51-60	0	0	4	0	0	1	0
61-65	0	0	1	3	2	0	0
66-70	0	0	0	3	3	4	0
71-75	0	0	0	0	2	8	6
76-80	0	0	0	0	1	4	17
81-85	0	0	1	0	0	0	8

TABLE 35

Which product smoked when gave up - consistency of answers
given in 1980 and 1985

(restricted to subjects who were ex-smokers in 1980 and
ex-smokers in 1985 having given up by 1980)

1980 statement

1985 statement	MC	HR	MC+HR	Pipe	Cigar	Pipe + Cigar	Cigarette + Pipe/Cigar
Males							
Manufactured cigarettes (MC)	19	0	0	1	0	0	2
Hand rolled cigarettes (HR)	0	1	0	0	0	0	0
MC+HR	2	0	1	0	0	0	0
Pipe	1	0	0	0	0	0	0
Cigar	0	0	0	0	1	0	0
Pipe + Cigar	0	0	0	0	0	0	0
Cigarettes + Pipe/Cigar	9	0	0	0	0	0	1

Females	MC
Manufactured cigarettes (MC)	24
MC + HR	1

TABLE 36

Number of manufactured cigarettes smoked when gave up -
consistency of answers given in 1980 and 1985

(ex-smokers of man. cigs in 1980 and ex-smokers of man. cigs
in 1985 having given up by 1980)

	1980 statement						
1985 statement	1-7	8-12	13-17	18-22	23-27	28-32	33+
1- 7	4	0	0	1	0	0	0
8-12	4	7	1	0	0	0	0
13-17	0	1	3	2	0	0	1
18-22	0	1	1	8	2	1	3
23-27	0	0	0	1	1	1	1
28-32	0	0	0	0	1	4	2
33+	0	1	0	4	0	2	13

TABLE 37

Changes in smoking habits (any product) between 1980 and 1985
in relation to various other factors

(excluding Types I, II and III inconsistent subjects)

		Ex-smoker 1980 Smoker 1985 %(N)	Smoker 1980 Ex-smoker 1985 %(N)	Base
Total		2.2(11)	10.6(53)	502
Male	25-34	6.8(3)	11.4(5)	44
	35-44	3.9(3)	10.4(8)	77
	45-54	1.5(1)	13.6(9)	66
	55-65	0.0(0)	14.0(7)	50
	Total	3.0(7)	12.2(29)	237
Female	25-34	1.7(1)	5.0(3)	60
	35-44	1.2(1)	13.1(11)	84
	45-54	1.9(1)	3.8(2)	53
	55-65	1.5(1)	11.8(8)	68
	Total	1.5(4)	9.1(24)	265
Male	Social class up (80-85)	2.6(1)	10.3(4)	39
	Social class same	3.0(4)	12.1(16)	132
	Social class down	3.0(2)	13.6(9)	66
Female	Social class up (80-85)	0.0(0)	13.3(6)	45
	Social class same	1.4(2)	9.9(14)	142
	Social class down	2.6(2)	5.2(4)	77
Male	Still employed* (80-85)	3.5(6)	11.0(19)	172
	Became unemployed	0.0(0)	19.1(9)	47
	Became employed*	0.0(0)	0.0(0)	2
	Still unemployed	6.3(1)	6.3(1)	16
Female	Still employed* (80-85)	0.0(0)	4.9(2)	41
	Became unemployed	2.2(1)	8.7(4)	46
	Became employed*	0.0(0)	11.8(2)	17
	Still unemployed	1.9(3)	9.9(16)	161

* Full-time

TABLE 38

Change in detailed smoking group between 1980 and 1985

(excluding Types I, II and III inconsistent subjects)

Products smoked in 1985	Products smoked in 1980								
	None	MC	HR	MC+HR	Pipe	Cigar	Pipe+ Cigar	Cigarettes+ Pipe/Cigar	Total
Male									
None	93	14	4	2	2	3	0	4	122
Manufactured cigarettes (MC)	1	43	1	3	0	0	0	3	51
Handrolled (HR)	0	2	5	1	0	0	0	1	9
MC+HR	1	3	0	3	0	0	0 ·	3	10
Pipe	2	1	1	0	5	0	0	1	10
Cigars	3	7	0	0	1	2	0	1	14
Pipe + Cigar	0	0	0	0	1	0	0	0	1
Cigarettes and pipe/cigar	0	6	1	1	1	3	0	8	20
Total	100	76	12	10	10	8	0	21	237
Female									
None	134	23	1	0		0			158
MC	3	95	0	2		0			100
MC+HR	0	2	2	1		0			5
Cigars	1	0	0	0		1			2
Total	138	120	3	3		1			265

TABLE 39

Change in number of manufactured cigarettes smoked
between 1980 and 1985

(Smokers of manufactured cigarettes at both times)

Number smoked in 1985	\begin Number smoked in 1980 0-7	8-12	13-17	18-22	23-27	28-32	33+	Total

Number smoked in 1985	0-7	8-12	13-17	18-22	23-27	28-32	33+	Total
Male								
0-7	1	3	1	0	0	1	0	6
8-12	1	3	4	6	0	1	0	15
13-17	0	2	1	1	1	0	1	6
18-22	2	2	2	10	4	3	5	28
23-27	0	0	0	3	0	0	3	6
28-32	0	0	0	1	4	0	0	5
33+	0	0	0	3	0	1	2	6
Total	4	10	8	24	9	6	11	72
Female								
0-7	5	3	0	2	0	1	1	12
8-12	1	9	3	7	2	0	1	23
13-17	1	3	9	11	2	0	0	26
18-22	0	1	8	11	3	2	2	27
23-27	0	. 0	1	2	2	1	0	6
28-32	0	0	0	1	0	1	2	4
33+	0	0	0	0	1	0	1	2
Total	7	16	21	34	10	5	7	100

TABLE 40

Change in filter/plain smoking habits between 1980 and 1985

(Smokers of manufactured cigarettes at both times)

	1980 habits	
1985 habits	Plain	Filter
Male		
Plain	6	0
Filter	3	63
Female		
Plain	1	0
Filter	0	99

TABLE 41

Reporting of manufactured cigarettes smoked as round numbers

(excluding answers of zero)

Number of manufactured cigarettes smoked

Smoking	Sex	Ending in a 0		Ending in a 5		Other	
		N	%	N	%	N	%
1980	M	60	57.7	16	15.4	28	26.9
	F	55	44.4	27	21.8	42	33.9
1985	M	38	48.7	9	11.5	31	39.7
	F	36	34.6	23	22.1	45	43.3
1985 recall of 1980	M	79	68.1	24	20.7	13	11.2
	F	77	57.9	33	24.8	23	17.3

TABLE 42

Inconsistency in smoking habits (any product) related to inconsistency in age

		4 or 5 years	Between-survey age difference		
1980/1985 smoking habits		4 or 5 years	Other 1 to 9 years	Other	Total
All subjects	N	390	106	44	540
Type I inconsistency	N	8	3	3	14
	%	2.1	2.8	6.8	2.6
Type II inconsistency	N	11	10	1	22
	%	2.8	9.4	2.3	4.1
Type III inconsistency	N	1	1	0	2
	%	0.3	0.9	0.0	0.4
Type I+II+III inconsistency	N	20	14	4	38
	%	5.1	13.2	9.1	7.0
Consistent never smokers	N	114	25	13	152
	%	29.2	23.6	29.5	28.1
Consistent smoker/ex-smoker	N	256	67	27	350
	%	65.6	63.2	61.4	64.8
Age of starting agrees	%[1]	31.6	28.4	33.3	31.1
differs by 1 or 2 years	%[1]	44.1	37.3	40.7	42.6
differs by 3 years or more	*[1] %	24.2	34.3	25.9	26.3

[1]
% is of consistent smoker/ex-smokers
*
includes those with missing age of starting to smoke

TABLE 42 (contd.).

Inconsistency in smoking habits (any product) related to
inconsistency in age

			4 or 5 years	Between-survey age difference Other 1 to 9 years	Other	Total
Type I + II + III inconsistent						
Male	25-44	N	4	1	2	7
		%	4.4	3.7	18.2	5.5
	45-65	N	8	6	1	15
		%	8.5	22.2	10.0	11.5
	Total	N	12	7	3	22
		%	6.5	13.0	14.3	8.5
Female	25-44	N	4	2	1	7
		%	3.6	6.1	12.5	4.6
	45-65	N	4	5	0	9
		%	4.2	26.3	0.0	6.9
	Total	N	8	7	1	16
		%	3.9	13.5	4.3	5.7
Age of starting to smoke differs by 3 years or more				*		
Male	25-44	N 1	18	3	1	22
		%	29.0	15.0	14.3	24.7
	45-65	N 1	15	11	3	29
		%	19.7	61.1	37.5	28.4
	Total	N 1	33	14	4	51
		%	23.9	36.8	26.7	26.7
Female	25-44	N 1	10	4	1	15
		%	15.9	22.2	20.0	17.4
	45-65	N 1	19	5	2	26
		%	34.5	45.5	28.6	35.6
	Total	N 1	29	9	3	41
		%	24.6	31.0	25.0	25.8

1
 % is of consistent smoker/ex-smokers
*
 includes those with missing age of starting to smoke

TABLE 43

Combined Type I, II and III smoking habit inconsistency by
between-survey age difference and between-survey difference
in age of finish of education

Between-survey difference

Age	Age of finish of education	Number of subjects	Number Type I,II,III inconsistent	%
4 or 5 years	Same	320	18	5.6
4 or 5 years	Differs*	70	2	2.9
Other	Same	107	14	13.1
Other	Differs*	43	4	9.3

*
Or missing (don't know) in one or both surveys

TABLE 44

Inconsistency on age of starting to smoke by between-survey
age difference and between-survey difference in age of finish
of education

Between-survey difference

Age	Age of finish of education	Number of consistent smokers/ex-smokers	Number inconsistent on age of start to smoke+	%
4 or 5 years	Same	210	50	23.8
4 or 5 years	Differs *	46	12	26.1
Other	Same	68	21	30.9
Other	Differs *	26	9	34.6

*
Or missing (don't know) in one or both surveys

+
By 3 or more years, or missing (don't know) in one or both surveys.

TABLE 45

Inconsistency on age of starting to smoke by between-survey
age difference and between-survey difference in year stopped smoking

Between-survey
difference

Age	Year stopped smoking	Number of consistent ex-smokers**	Number inconsistent on age of start to smoke+	%
4 or 5 years	Same	14	1	7.1
	1-2 years	25	7	28.0
	3 years or more*	9	2	22.2
Other	Same	1	0	0.0
	1-2 years	10	2	20.0
	3 years or more*	4	1	25.0

*
  Or missing (don't know) in one or both surveys
**
  1980 and 1985 ex-smokers who gave up smoking pre 1980
+
  By 3 or more years, or missing (don't know) in one or both surveys.

TABLE 46

Inconsistency on age of starting to smoke by between-survey
age-difference and between-survey difference in numbers of
manufactured cigarettes smoked at time of giving up

Between survey difference

Age	No.man.cigs at time of giving up	Number of consistent ex-smokers**	Number consistent on age of start to smoke+	%
4 or 5 years	Same	16	4	25.0
	1-5	16	2	12.5
	6+*	16	4	25.0
Other	Same	7	0	0.0
	1-5	3	1	33.3
	6+*	5	2	40.0

*
  Or missing (don't know) in one or both surveys
**
  1980 and 1985 ex-smokers who gave up smoking pre 1980
+
  By 3 or more years, or missing (don't know) in one or both surveys.

TABLE 47

Discrepancies in recalling smoking at time of previous
interview - Men
(Based on RP2 Tables 8A, 8B, 9A, 9B, RP2A Table 7)

Study	Time Elapsed	% of smokers who recalled being non-smokers				% of non-smokers who recalled being smokers
		Any	Mancigs	HR	Pipe	Any
1952 & 1957						
	6 months	0.5	1	7	12	5
	18 months	0.7	5	20	15	22
	2 years	0.0	3	24	11	
	3 years	1.5	5	47	12	
	4 years	2.8	9	15	11	
	5 years	1.5	4	25	23	37
	7-9 years	3.0	9	52	21	35
1964						
	14-16 years	3.2				46
1985						
	5 years	5.8	5.6	33.3	22.7	18.4

TABLE 48

Informants who recalled, correctly or incorrectly, the types of product smoked at earlier interview

(Restricted to men. Excludes subjects who were non-smokers at both interviews and who recalled correctly having been a non-smoker)

(Based on RP2 Tables 17A,18, RP2A Tables 8,12,13)

A. Overall

Study	Time elapsed	No. of informants	Incorrect recall %	Incorrect recall N	% of incorrect whose recall = current	Correct recall %	Correct recall N	% of correct whose recall = current
1957	6 months	188	9	17	88	91	171	95
	18 months	163	19	31	74	81	132	95
	5 years	209	21	44	66	79	165	90
	7-9 years	214	26	56	66	74	158	83
1964	14-16 years	365	36	132	52	64	233	69
1985	5 years	158	40	63	37	60	95	61

TABLE 48 (contd.)

Informants who recalled, correctly or incorrectly, the types of product
smoked at earlier interview

(Restricted to men. Excludes subjects who were non-smokers at both
interviews and who recalled correctly having been a non-smoker)

(Based on RP2 Tables 17A,18, RP2A Tables 8,12,13)

B. Informants who had changed the types of products they smoked

Study	Time elapsed	Number of informants	Recall=current (∴ incorrect)		Recall not same as current but was:			
					Correct		Incorrect	
			N	%	N	%	N	%
1957	6 months	24	15	63	8	33	1	4
	18 months	33	23	70	7	21	3	9
	5 years	53	29	55	17	32	7	13
	7-9 years	73	37	51	28	38	8	11
1964	14-16 years	172	69	40				
1985	5 years	82	23	28	37	45	22	27

TABLE 49

% of subjects smoking various amounts of manufactured cigarettes
- as stated at original interview and as recalled at follow-up
interview.

(Restricted to men who at either interview said they were smokers
at time of original interview, excluding "don't knows")

(based on Tables 22A,22B in RP2, Table 20 in RP2A)

A. Original 1948-50 (base = 173)

1957 Recall	Non-smoker of MC	0-4	5-14	15-24	25+
Non-smoker of MC	-	4.0	1.1	1.7	1.1
0- 4	0.0	1.2	1.1	0.6	0.0
5-14	2.3	1.1	14.5	9.8	1.7
15-24	2.3	1.1	7.5	20.2	6.9
25+	0.6	1.1	1.7	6.9	11.0

B. Original 1956   (base = 125)

1957 Recall	Non-smoker of MC	0-4	5-14	15-24	25+
Non-smoker of MC	-	0.8	0.0	0.0	0.0
0- 4	0.8	2.4	1.6	0.0	0.0
5-14	0.8	3.2	17.6	2.4	0.0
15-24	0.0	1.6	5.6	37.6	3.2
25+	0.0	0.0	2.4	3.2	16.8

C. Original 1948-50 (base = 301)

1964 Recall	Non-smoker of MC	0-4	5-14	15-24	25+
Non-smoker of MC	-	3.7	2.0	1.3	0.6
0- 4	2.0	3.0	0.6	1.3	0.0
5-14	4.3	3.7	10.6	6.0	2.3
15-24	5.3	4.0	8.3	15.3	5.6
25+	2.0	0.3	2.3	5.0	10.3

D. Original 1980   (base = 128)

1985 Recall	Non-smoker of MC	0-4	5-14	15-24	25+
Non-smoker of MC	-	0.8	0.8	2.3	1.6
0- 4	4.7	0.0	0.0	0.0	0.0
5-14	0.0	0.8	18.6	3.1	1.6
15-24	5.5	0.8	6.3	19.5	7.0
25+	6.3	0.8	1.6	10.9	17.2

TABLE 50

% of subjects falling into same or different categories at two
interviews, when categorised by number of manufactured cigarettes smoked.

(Restricted to men who at either interview said they were smokers at
time of original interview - excluding Don't knows)

(Based on RP2 Tables 22A,22B; RP2A Table 11)

| | | | | Recall category vs. original category | | | |
Original Study i.v.		Base	Same	1 higher	1 lower	2 or more higher	2 or more lower
1957	48-50	173	46.8	15.6	22.0	9.2	6.3
	56	125	74.4	12.8	8.0	4.8	0.0
1964	48-50	301	39.2	18.9	15.9	18.3	7.6
1985	80	128	45.3	22.7	10.9	15.0	6.3

* Categorised as Non-smoker, 0-4, 5-14, 15-24, 25+

TABLE 51

Recall of number of manufactured cigarettes smoked -
Correlation between memory error and change in amount smoked

(Restricted to smokers at both times)

(Based on RP2 Table 14)

Study	Original i.v.	Men	Women
1952	48	.63	.70
	49	.87	.77
	50	.76	.82
1957	48-50	.62	
	52	.51	
	55	.41	
	56	.80	
1985	80	.72	.77

TABLE 52

Recall of number of manufactured cigarettes smoked -
Comparison of correlation between current/recall and current/original

(Restricted to smokers at both times - although this is not clear in RP2)

(based on RP2 Table 15)

Study	Original i.v.		Correlation between current and recall	Correlation between current and original	
				Answered both in round numbers	Others
1952	48	M	.83	0.58	0.40
		F	.69		
	49	M	.77	0.54	0.24
		F	.88		
	50	M	.90	0.68	0.46
		F	.71		
1957	48-50	M	.63	.29	
	52	M	.74	.55	
	55	M	.66	.47	
	56	M	.88	.58	
1985	80	M	.67	.51	
		F	.72	.48	

TABLE 53

% reporting manufactured cigarettes smoked as round numbers

Study	Year i.v.		Ending in 0	Ending in 5	Other
A. Consumption "yesterday"					
1952	1948	M	59	22	19
		F	36	27	37
	1949	M	54	23	23
		F	28	15	57
	1950	M	47	20	33
		F	26	14	60
1957	1948-50	M	50	24	26
1985	1980	M	58	15	27
		F	44	22	34
	1985	M	49	12	40
		F	35	22	44
B. Usual consumption					
1957	1952	M	43	27	30
	1955	M	59	25	16
	1956	M	57	20	23
1985	85 recall	M	68	21	11
	of 80	F	58	25	17

TABLE 54

Summary of Type I, II and III inconsistencies (any product)

Type I   : never smoked in 1985, current or ex-smoker in 1980
Smoking habits in 1980:   Current M Cigs 20
                                       Ex M Cigs 10
                                       Ex M Cigs 20
                                       Ex M Cigs 20
                                       Ex M Cigs 20, Ex Cigar
                                       Ex Pipe
                                       Ex M Cigs 4
                                       Ex M Cigs 10, Current Pipe
                                       Ex M Cigs 3
                                       Ex M Cigs 20
                                       Ex M Cigs 15
                                       Current M Cigs 1
                                       Current M Cigs 1
                                       Ex M Cigs 5
Total : 14 subjects out of 166 1985 never smokers = 8.4%

Type II   : never smoked in 1980, current or ex-smoker in 1985
            having started before 1980
Smoking habits in 1985:   Ex M Cigs 24, Ex HR, Ex Cigar
                                       Ex M Cigs 3, Ex Pipe, Ex Cigars
                                       Ex M Cigs 6
                                       Ex M Cigs 10
                                       Current M Cigs 0
                                       Ex M Cigs 1
                                       Ex M Cigs 10
                                       Current Cigars
                                       Ex M Cigs 20
                                       Ex M Cigs N not stated
                                       Current M Cigs 3
                                       Ex M Cigs 5
                                       Ex M Cigs 99
                                       Ex M Cigs 10
                                       Ex M Cigs 5
                                       Ex M Cigs 10
                                       Ex M Cigs 1
                                       Ex M Cigs 10
                                       Ex M Cigs 20
                                       Ex M Cigs 20
                                       Ex M Cigs 5
                                       Ex M Cigs 1
Total: 22 subjects out of 174 1980 never smokers = 12.6%

Type III   : current smoker in 1980, ex-smoker giving up before
             1980 in 1985
1980: Current Cigars, Ex M Cigs 40.   1985: Ex M Cigs 40, gave up
                                                1971
1980: Current HR.   1985: Ex HR, gave up 1979
Total : 2 subjects out of 53 1980 current/1985 ex-smokers
         (excluding DK year gave up) = 3.8%

J.4236/CID   April 1985

1980 Annual Consumer Survey -
FOLLOW UP QUESTIONNAIRE

Serial No.	Cols 1-5
Card Class 1	Col 6
TIME INTERVIEW STARTED	

NOTE: INTERVIEWS ON MONDAY. In asking all brand and consumption questions relating to 'yesterday' (manufactured and hand-rolled sections), you must ask alternate informants about SATURDAY as 'yesterday', and NOT Sunday. RING ONE CODE to denote which day the information in this questionnaire refers to

Saturday 1 | Col 7
Sunday · 2

INTRODUCTION:- We are doing a survey to establish the types of product people use and the brands they buy.

		(a) Manu-factured cigarettes	(b) Hand-rolled cigarettes	(c) Pipe	(d) Cigars WEEKLY	
Q.1(a)	Do you smoke manufactured cigarettes?					
(b)	Do you smoke hand-rolled cigarettes?					
(c)	Do you smoke a pipe?					
(d)	Do you smoke as much as one cigar or miniature cigar a week? Yes	1	2	3	4	Col 8
	No	5	6	7	8	
Q.2(a)	Were you smoking manufactured cigarettes this time last year?					Col 9
(b)	Were you smoking hand-rolled cigarettes this time last year?					
(c)	Were you smoking a pipe this time last year? Yes	1	2	3	4	
	No	5	6	7	8	
(d)	Were you smoking as much as one cigar or miniature cigar a week this time last year?					
Q.3(a)	Have you ever smoked at least one manufactured cigarette a day, for as long as a year?					Col 10
(b)	Have you ever smoked at least one hand-rolled cigarette a day, for as long as a year? Yes	1	2	3	4	
(c)	Have you ever smoked a pipe at least once a day for as long as a year? No	5	6	7	8	
(d)	Have you ever smoked at least one cigar or miniature cigar a week for as long as a year?					

INTERVIEWER: NOW SUMMARY-CODE THE INFORMANT AS A PRESENT SMOKER, EX-SMOKER OR "OTHER" FOR EACH TOBACCO PRODUCT:-	Manu-factured cigarettes	Hand-rolled cigarettes	Pipe	Cigars WEEKLY	
PRESENT SMOKER ('Yes' at Q.1)............	1	2	3	4	Col 11
EX-SMOKER ('No' at Q.1, but 'Yes' at Q.3)	5	6	7	8	
OTHER ('No' at Q.1 AND Q.3).............	A	B	C	[9]	

SP(12-13) .

Q.4   ('Yes' at <u>any</u> part of Q.3 and 'No' at <u>all</u> parts of Q.1)

(a) When did you last give up smoking? I mean, after giving up, you did not smoke as much as a cigarette a day, a pipe a day, or a cigar a week regularly for as long as a year. Which year was it?

		Cols 14,15
Year 19	. .	
(Don't know)	YY	

(b) What products were you smoking at that time?   (CODE ALL THAT APPLY)

READ OUT

	Yes	No	Col 16
Manufactured cigarettes	1	2	
Hand-rolled cigarettes	3	4	
Pipe	5	6	
Cigars weekly	7	8	

('Yes' at any part of Q.3)

Q.5   At what age did you start to smoke? By 'smoke', I mean at least a cigarette a day, a pipe a day, or a cigar a week regularly for as long as a year.

RECORD AGE (2 DIGITS)

		Cols 17,18
	. .	
(Don't know/Can't remember)	YY	

CC1 continues on class. page

| ALL EX-SMOKERS OF MANUFACTURED | (Summary Code 5 at foot of page 1) |

| Serial No.   cols. 1-5 |
| Card Class 2 col. 6 |

Q.6 On average about how many <u>manufactured cigarettes</u>   (TWO DIGITS) did you smoke in total each day before you stopped smoking them?   (Don't know/Can't remember)

		Cols 8,9
	. .	
	Y Y	

| ALL PRESENT SMOKERS OF MANUFACTURED | (Summary Code 1)

Q.7a) What brands of manufactured cigarettes did you smoke yesterday/Saturday,* including any which were offered to you? Can you give me the full names of them? <u>PROBE:</u> Any others?

RECORD EXACT BRAND NAME.
FOR EACH BRAND SMOKED, ASK (b)

NONE smoked yesterday// Saturday*   6   SKIP TO Q.7d)

* NB MONDAY INTERVIEWS remember to use the correct day!

(Space cols 11-34)

(b) How many.........(BRAND) cigarettes did you smoke yesterday/Saturday?
ENTER EXACT NUMBER FOR EACH BRAND (2 DIGITS), AND FOR TOTAL MANUFACTURED CIGS SMOKED

Q.7 (a) Brand Name	Q.7(b) EXACT number
	. .
	. .
	. .
	. .
	. .
	. .

Cols 35, 36

(c) So then, yesterday/Saturday * you smoked a total of..................... TOTAL | . . | ....manufactured cigarettes?

CHECK TOTAL WITH INFORMANT AND AMEND IF NECESSARY

- 2 -

FILTER BRANDS

Brand	Code
Acclaim Mild K.S.Filter	97
Ardath K.S. Filter	9Y
Belair Menthol K.S. Filter	87
Benson & Hedges K.S. Special Filter	X1
Benson & Hedges Longer Length	95
Berkeley Extra Mild K.S. Filter	59
Berkeley Luxury Length Filter	86
Cadets Filter	36
Camel Filter	77
Carlton Long Size Filter	67
Carlton Premium Filter	23
Consulate Menthol Filter	X5
Craven "A" K.S. Filter	YY
Craven "A" Mild K.S. Filter	50
Dorchester K.S.	53
Du Maurier K.S. Filter	51
Dunhill Int. Filter	X7
Dunhill Int. Superior Mild Filter	Y4
Dunhill K.S. Filter	Y6
Dunhill K.S. Superior Mild Filter	Y7
Dunhill Luxury Length Filter	61
Embassy Filter	60
Embassy Extra Mild Filter	40
Embassy Gold Filter	21
Embassy No.1 Extra Mild K.S Filter	70
Embassy No.1 K.S. Filter	79
Embassy No.3 Standard Size Filter	63
Embassy Regal Filter	41
Embassy Regal K.S. Filter	74
Fine Fare K.S.	5X
Gold Leaf Filter	49
John Player K.S. Filter (blue)	88
John Player K.S Ex.Mild Filter(red)	75

Brand	Code
John Player Special Filter	81
John Player Special K.S Filter(black)	84
John Player Superkings	71
John Player Superkings Low Tar	72
John Player Vanguard Filter	83
Kensitas Club Filter	48
Kensitas Club K.S. Filter	XX
Kensitas Club Mild K.S Filter	52
Kensitas K.S. Filter	XY
Kent Filter	89
Kings	9X
Kingsmen	91
Lambert & Butler Int. Filter	7X
Lambert & Butler K.S. Filter	78
Lambert & Butler Sp.Mild KS Filter	82
London K.S. Filter	55
Marlboro Filter	Y2
Marlboro 100's Filter	94
More Filter	76
More Menthol Filter	73
Park Drive Filter	3X
Peter Stuyvesant K.S. Filter	X4
Peter Stuyvesant Ex.Mild K.S Filter	X2
Peter Stuyvesant Luxury Length Filter	56
Peter Stuyvesant Lux.Length Mild Filt	57
Piccadilly Filter de Luxe	62
Piccadilly K.S. Filter	X8
Player's No. 6 Filter	38
Player's No. 6 Extra Mild Filter	31
Player's No. 6 K.S. Filter	85
Player's No. 10 Filter	22
Player's No. 10 Extra Mild Filter	24
Raffles 100's	92

Brand	Code
Regal K.S. Filter	74
Rothmans International Filter	Y1
Rothmans K.S. Filter	X3
Rothmans K.S. Special Mild Filter	58
Royal Standard Filter	XO
Senior Service Superkings	8Y
Silk Cut Filter (red)	65
Silk Cut K.S. Filter (purple/mauve)	X9
Silk Cut K.S. Extra Mild Filter	5Y
Silk Cut No. 3 Filter (blue)	37
Silk Cut No. 5 Filter	29
Sovereign Filter	25
Sovereign Mild Filter	27
Spar K.S.	54
State Express 555 K.S. Filter	X6
State Express 555 Ex. Mild KS Filter	YX
State Express 555 Int. Filter	Y5
St. Moritz Filter	Y3
United King Size	98
Vanguard Filter	83
Victoria Wine K.S.	93
Winston K.S. Filter	YO

PLAIN BRANDS

Brand	Code
Capstan Full Plain	11
Capstan Medium Plain	10
Park Drive Plain	06
Piccadilly No. 1 Plain	18
Player's Medium Navy Cut Plain	14
Player's No. 6 Plain	03
Senior Service Plain	15
Weights Plain	02
Woodbine Plain	01

(K.S = King Size)

ALL PRESENT SMOKERS OF MANUFACTURED

Q.7d) What was the <u>last</u> brand of cigarettes that you bought for yourself or was bought for you?

RECORD EXACT BRAND NAME AND CODE
USING LIST OF BRANDS OPPOSITE

Brand Name	CODE	
Plain.........		Cols 37,38
Filter........	. .	

ASK ALL

SPACE (39-52)

I would now like you to think back to five years ago, that is the year 1980.

			CODE	ROUTE
			(53)	
Q.8a)	Were you smoking manufactured cigarettes in 1980?	Yes.........	1	
		No..........	2	
			(54)	
Q.8b)	Were you smoking hand rolled cigarettes in 1980?	Yes.........	1	
		No..........	2	
			(55)	
Q.8c)	Were you smoking a pipe in 1980?	Yes.........	1	
		No..........	2	
			(56)	
Q.8d)	Were you smoking as much as one cigar a week in 1980?	Yes.........	1	
		No..........	2	

ASK ALL WHO WERE SMOKING MANUFACTURED CIGARETTES
FIVE YEARS AGO.   OTHERS GO TO CLASSIFICATION.

Q.9 About how many manufactured cigarettes a day, on average, were you smoking in 1980?

WRITE IN NUMBER [　　|　　]   (57-58) Q.10

Q.10 What brand of manufactured cigarettes were you smoking most often in 1980?

RECORD <u>EXACT</u> BRAND NAME AND CODE
USING LIST OF BRANDS OPPOSITE ——>

BRAND NAME	CODE
Plain	(59-60)
Filter	. .

NOW GO TO CLASSIFICATION.

- 3 -

EMPLOYMENT STATUS

		Col 37
Working - full time (30+ hrs).....	1	
Working - part time (10-29 hrs)...	2	
Not working or less than 10hrs.....	3	

AGE OF INFORMANT

Record exact age and ring one code

		Cols 41,42
	. .	

		Col 43
16 - 19	1	
20 - 24	2	
25 - 29	3	
30 - 34	4	
35 - 39	5	
40 - 44	6	
45 - 49	7	
50 - 54	8	
55 - 59	9	
60 - 64	0	
65+	X	

DETAILS OF PRESENT/LAST FULL-TIME JOB

	Office use
	M/NM	Col 38

OCCUPATION (include details of last full-time occupation for widow/ retired/pensioner/unemployed)

| | OCC | Col 39 |

Enter any professional qualifications/ apprenticeships served for present occupation:-

| INDUSTRY | SC | Col 40 |

STATUS

			Col 44
	*Married	1	
	*Separated	2	
	Not married(S/W/D)	3	

*If woman married or separated and husband not H.H, enter husband's occupation

....

SEX

MAN		0
WOMAN -Housewife		X
-Not housewife		Y

IMPORTANT:

If belongs to any one of the groups below, write in the number of employees/staff for which responsible—

Self employed ──────────────► No. of employees ☐

Manager "senior" (see F W manual) } Size of firm/ establishment ☐
Manager "junior" (see F W manual) ──►

Clerk of works Foreman/Chargehand/Ganger ──► No. of staff for whom responsible ☐

CODE ONE:-	Manufacturing	A
	Distributive	B
	Neither	C

TERMINAL AGE OF EDUCATION

| | | Col 45 |

How old were you when you finished your full-time education?

15 and under....	1
16..............	2
17..............	3
18..............	4
19-23...........	5
24 or over......	6
Not yet finished	7

INFORMANT IS.....

H.H./C.W.E.	9
Not H.H./C.W.E.	0

ASCERTAIN EMPLOYMENT DETAILS OF H.H./C.W.E.

NOW ASK INFORMATION ON RIGHT ➤

HEAD OF HOUSEHOLD - IF INFORMANT IS NOT H.H/C.W.E.

DETAILS OF PRESENT/LAST FULL-TIME JOB

OCCUPATION (include details of last full-time occupation for widow/ retired/pensioner/unemployed)

Enter any professional qualifications/ apprenticeships served for present occupation:-

INDUSTRY

SOCIAL GRADE of head of household/chief wage earner

			Col 46
	A	1	
	B	2	
	C1	3	
	C2	4	
	D	5	
	E	6	

IMPORTANT:

If belongs to any one of the groups below, write in the number of employees/staff for which responsible—

Self employed ──────────────► No. of employees ☐

Manager "senior" (see F W manual) } Size of firm/ establishment ☐
Manager "junior" (see F W manual) ──►

Clerk of works Foreman/Chargehand. Ganger ──► No. of staff for whom responsible ☐

HOUSEHOLD COMPOSITION

		Cols 47-50
Adults 16+		
Children 5-15		
Infants 0-4		
TOTAL		

INFORMANT'S NAME AND HOME ADDRESS (Block Capitals)

NAME (Mr/Mrs/Miss)_____   (Initials) _____

HOME ADDRESS (N.B. PROVIDE FULL POSTAL ADDRESS - VERY IMPORTANT)

_____

(Please Tick ✓)

HOME TEL NO: NONE | | REFUSED | |

WHERE INTERVIEWED	Col 51		ADDRESS WHERE INTERVIEWED:
Home	1		_____
Work	2		_____
Elsewhere	3		_____

IF NOT INTERVIEWED AT HOME: (Codes 2 or 3)   IF NO OR DON'T KNOW AT (a) (Codes 5 or 6) ASK (b)

(a) Does your home address come   Yes   4   (b) In which local council area is your home
    under the area of (READ OUT   No   5   address (WRITE IN)
    FULL NAME OF QUOTA DISTRICT)?   D/K   6   _____

QUOTA DISTRICT................................

AREA CODE	CN	LA	Cols	
Q.D.			53 - 56	(Space Col 52)
				(Space Cols 57-59)
(OFFICE USE) RES.			60 - 63	(Space Cols 64-65)

DAY OF WEEK (RING ONE CODE)

Mon   1   Tues 2   Wed 3   Col 66
Thurs 4   Fri   5   Sat 6
           O.U.O. 7   8

NET INCOME OF HEAD OF HOUSEHOLD OR C.W.E.   LENGTH OF INTERVIEW (RING ONE CODE)
(HAND CARD)

		Col 67
O.A.P. and/or Social Security ONLY	X	
£1,600	0	
Which of these comes closest £2,000	1	
to your (his/her) income - £2,500	2	
that is, after deducting £3,120	3	
income tax, national insurance, £3,890	4	
pension schemes and so on? £4,870	5	
£6,080	6	
£7,600	7	
£9,500	8	
£11,900 or more	9	
Don't know	Y	

(Space Col 68)

		Col 69
1 - 5 mins	1	
6 - 15 mins	2	
16 - 20 mins	3	
21 - 25 mins	4	
26 - 30 mins	5	
31 mins and over	6	

ACCOMPANIED BY SUPERVISOR

Yes   0
No   X

Date: / /85   Cols 70-72

DECLARATION   I declare that the informant was unknown to me until the interview took place; and that this
questionnaire has been conducted according to the manual and has been checked

(Signed)_____ Number | | | | | Cols 73-76

SUPERVISED BY_____

TIME INTERVIEW FINISHED: | | JOB NO. | 4236 | Cols. 77 - 80 |

J.2470/PRH/AS

ANNUAL
CONSUMER
SURVEY 1980 [ALL MEN]

Research Services Ltd., Station House, Harrow Road, Stonebridge Park, Wembley, Middlesex HA9 6DE

12201

Serial No.	Cols 1-5
Card Class 1	Col 6

TIME INTERVIEW STARTED · 12·55

	Col 7

NOTE: INTERVIEWS ON MONDAY. In asking all brand and consumption questions relating to 'yesterday' (manufactured and hand-rolled sections), you must ask alternate informants about SATURDAY as 'yesterday', and NOT Sunday. RING ONE CODE to denote which day the information in this questionnaire refers to — Saturday ① Sunday 2

INTRODUCTION:- We are doing a survey to establish the types of product people use and the brands they buy.

		(a) Manufactured cigarettes	(b) Handrolled cigarettes	(c) Pipe	(d) Cigars WEEKLY	
Q.1(a) Do you smoke manufactured cigarettes? (b) Do you smoke hand-rolled cigarettes? (c) Do you smoke a pipe? (d) Do you smoke as much as one cigar or miniature cigar a week?	Yes	①	2	3	④	Col 8
	No	5	⑥	⑦	⑧	

		(a)	(b)	(c)	(d)	Col 9
Q.2(a) Were you smoking manufactured cigarettes this time last year? (b) Were you smoking hand-rolled cigarettes this time last year? (c) Were you smoking a pipe this time last year? (d) Were you smoking as much as one cigar or miniature cigar a week this time last year?	Yes	1	2	3	④	
	No	⑤	⑥	⑦	8	

		(a)	(b)	(c)	(d)	Col 10
Q.3(a) Have you ever smoked at least one manufactured cigarette a day, for as long as a year? (b) Have you ever smoked at least one hand-rolled cigarette a day, for as long as a year? (c) Have you ever smoked a pipe at least once a day for as long as a year? (d) Have you ever smoked at least one cigar or miniature cigar a week for as long as a year?	Yes	①	2	3	④	
	No	5	⑥	⑦	8	

INTERVIEWER: NOW SUMMARY-CODE THE INFORMANT AS A PRESENT SMOKER, EX-SMOKER OR "OTHER" FOR EACH TOBACCO PRODUCT:-	Manufactured cigarettes	Handrolled cigarettes	Pipe	Cigars WEEKLY	
PRESENT SMOKER ('Yes' at Q.1)..........	①	2	3	4	Col 11
EX-SMOKER ('No' at Q.1, but 'Yes' at Q.3)	5	6	7	⑧	
OTHER ('No' at Q.1 AND Q.3)............	A	Ⓑ	Ⓒ	[9]	

ASK Q.3e

Q.3(e) | ALL OTHERS ANSWERING 'No' at Q.1d AND Q.3d FOR CIGARS |

On this card (SHOW CARD A) are four different groups of cigars showing the actual size of miniature cigars - including those made like cigarettes, small cigars, medium cigars, and large cigars. Have you ever smoked any of these on any occasion during the past year, including last Christmas, of course?

Yes	0	→ 'NON-REGULAR' cigar smoker
No	X	→ 'NON-SMOKER' of cigars
(OUO)	Y	

| NOW RING ALL APPROPRIATE CODES ON CUT SECTIONS AT TOP OF PAGE |

('No' at Q.1 and 'Yes' at Q.2 for manufactured cigarettes)

Card Class 1

Q.4 What was the last brand of manufactured cigarettes that you smoked regularly?

RECORD EXACT BRAND NAME AND CODE, ⟶ USING LIST OF BRANDS BELOW

BRAND NAME	CODE	Cols 12,13
Plain		
Filter	. .	

FILTER BRANDS					
Belair Menthol K.S. Filter	87*	John Player Special Filter	81	Rothmans International Filter	Y1
Benson & Hedges K.S. Special Filter	XI	John Player Special K.S. Filter	84	Rothmans K.S. Filter	X3
Cadets Filter	36	John Player Vanguard Filter	83*	Rothmans K.S. Special Mild Filter	58*
Camel Filter	77*	Kensitas Club Filter	48	Silk Cut Filter	65*
Carlton Long Size Filter	67	Kensitas Club K.S. Filter	XX	Silk Cut K.S. Filter	X9*
Carlton Premium Filter	23	Kensitas Club Mild K.S. Filter	52*	Silk Cut No. 3 Filter	37*
Consulate Menthol Filter	X5*	Kensitas K.S. Filter	XY	Silk Cut No. 5 Filter	29*
Craven 'A' K.S. Filter	YY	Kent Filter	89	Sovereign Filter	25
Craven 'A' Mild K.S. Filter	50*	Lambert & Butler International Filter	7X	Sovereign Mild Filter	27*
du Maurier K.S. Filter	51	Lambert & Butler K.S. Filter	78	State Express 555 K.S. Filter	X6
Dunhill International Filter	X7	Lambert & Butler Special Mild K.S. Filter	82*	State Express 555 Extra Mild K.S. Filter	YX*
Dunhill International Superior Mild Filter	Y4*	Marlboro Filter	Y2	State Express 555 International Filter	Y5
Dunhill K.S. Filter	Y6	More Filter	76	St. Moritz Filter	Y3*
Dunhill K.S. Superior Mild Filter	Y7*	More Menthol Filter	73*	Vanguard Filter	83*
Embassy Filter	60	Park Drive Filter	3X	Winston K.S. Filter	Y0
Embassy Extra Mild Filter	40*	Peter Stuyvesant K.S. Filter	X4		
Embassy Gold Filter	21	Peter Stuyvesant Extra Mild K.S. Filter	X2*	PLAIN BRANDS	
Embassy No. 1 Extra Mild K.S. Filter	70*	Peter Stuyvesant Luxury Length Filter	56	Capstan Full Plain	11
Embassy No. 1 K.S. Filter	79	Peter Stuyvesant Luxury Length Extra Mild Filter	57*	Capstan Medium Plain	10
Embassy No. 3 Standard Size Filter	63	Piccadilly Filter de Luxe	62	Park Drive Plain	06
Embassy Regal Filter	41	Piccadilly K.S. Filter	X8	Piccadilly No. 1 Plain	18
Embassy Regal K.S. Filter	74	Player's No. 6 Filter	38	Player's Medium Navy Cut Plain	14
Gold Leaf Filter	49	Player's No. 6 Extra Mild Filter	31*	Player's No. 6 Plain	03
John Player K.S. Filter	88	Player's No. 6 K.S. Filter	85	Senior Service Plain	15
John Player K.S. Extra Mild Filter	75*	Player's No. 10 Filter	22	Weights Plain	02
		Player's No. 10 Extra Mild Filter	24*	Woodbine Plain	01
		Regal K.S. Filter	74	[K.S. = King Size] [* = Mild Brands for Q.11]	

('Yes' at any part of Q.3 and 'No' at all parts of Q.1)

Q.5(a) When did you last give up smoking? I mean, after giving up, you did not smoke as much as a cigarette a day, a pipe a day, or a cigar a week regularly for as long as a year. Which year was it?

		Cols 14,15
Year 19	. .	
(Don't know)	YY	

(b) What products were you smoking at that time? (CODE ALL THAT APPLY)

READ OUT

	Yes	No	Col 16
Manufactured cigarettes	1	2	
Hand-rolled cigarettes	3	4	
Pipe	5	6	
Cigars weekly	7	8	

('Yes' at any part of Q.3)

Q.6 At what age did you start to smoke? By 'smoke', I mean at least a cigarette a day, a pipe a day, or a cigar a week regularly for as long as a year.

RECORD AGE (2 DIGITS)

18	Cols 17,18
(Don't know/Can't remember)	YY

(Space col. 19-36
CC1 cont. on
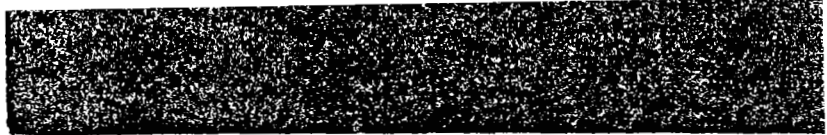
| ALL EX-SMOKERS OF MANUFACTURED | (Summary Code 5 at foot of page 1) |

Serial No.   cols. 1-5
Card Class 2 col. 6

Q.7   On average about how many manufactured cigarettes   (TWO DIGITS)   · ·   Cols 8,9
did you smoke in total each day before you
stopped smoking them?   (Don't know/Can't remember)   Y Y

| ALL PRESENT AND EX-SMOKERS OF MANUFACTURED | (Summary Codes 1 or 5)

Col 10

Q.8   When you smoke manufactured cigarettes (When
you last smoked manufactured cigarettes)   ....inhale a lot,   1
do/did you...........   inhale a fair amount,   ②
                                               inhale just a little,   3
         READ OUT   or do/did you not inhale at all?   4
                                         (Don't know/Can't remember)   5

EX-SMOKERS OF MANUFACTURED: (Summary Code 5) SKIP TO NEXT SECTION (GOLD)

| ALL PRESENT SMOKERS OF MANUFACTURED | (Summary Code 1)

Q.9a)   What brands of manufactured cigarettes did you
smoke yesterday/Saturday,* including any which
were offered to you? Can you give me the full
names of them? PROBE: Any others?   NONE smoked yesterday;
                                                      Saturday*   6   SKIP TO
RECORD EXACT BRAND NAME.   * NB MONDAY INTERVIEWS   Q.10
FOR EACH BRAND SMOKED, ASK (b)   remember to use the correct day!   (Space cols 11-34)

(b)   How many........(BRAND) cigarettes did you smoke yesterday/Saturday?*
ENTER EXACT NUMBER FOR EACH BRAND (2 DIGITS), AND FOR TOTAL MANUFACTURED CIGS SMOKED

Q.9 (a) Brand Name	Q.9(b) EXACT number
SILK CUT FILTER	2 0
BENSON & HEDGES KS. SPECIAL FILTER.	0 1
	· ·
	· ·
	· ·
	· ·

Cols 35, 36

(c)   So then, yesterday/Saturday *
you smoked a total of.................. TOTAL   2 1   ....manufactured
CHECK TOTAL WITH INFORMANT AND AMEND IF NECESSARY   cigarettes?

INFORMANT DETAILS

EMPLOYMENT STATUS — Col 37

Working - full time (30+ hrs)..... ①
Working - part time (10-29 hrs).... 2
Not working or less than 10hrs......

Office use

DETAILS OF PRESENT/LAST FULL-TIME JOB | M/NM | Col

OCCUPATION (include details of last
full-time occupation for widow/
retired/pensioner)

OCC — Col 39

Enter any professional qualifications
present occupation—

INDUSTRY — SC Col 40

IMPORTANT:

If belongs to any one of the groups below, write in the number of
employees/staff for which responsible—

Self-employed ———————→ No of employees [ ]

Manager "senior" (see F W manual)} Size of firm/
Manager "junior" (see F W manual)} establishment [ ]

No. of staff
Clerk of works/Foreman/Chargehand/Ganger whom responsible [ ]

CODE ONE:-
Manufacturing A
Distributive B
Neither ⓒ

NOW ASK INFORMATION ON RIGHT ↱

HEAD OF HOUSEHOLD - IF INFORMANT IS NOT H.H/C.W.E.

DETAILS OF PRESENT/LAST FULL-TIME JOB

OCCUPATION (include details of last
full-time occupation for widow/
retired/pensioner)

Is H of H.

Enter any professional qualifications/apprenticeships served for
present occupation—

INDUSTRY

IMPORTANT:

If belongs to any one of the groups below, write in the number of
employees/staff for which responsible—

Self employed ———————→ No of employees [ ]

Manager senior (see F W manual)} Size of firm/
Manager junior (see F W manual)} establishment [ ]

No of staff for
Clerk of works/Foreman/Chargehand/Ganger whom responsible [ ]

AGE OF INFORMANT — Cols 41,4.

Record exact age and
ring one code — 22

		Cols
16 - 19	1	Col 43
20 - 24	②	
25 - 29	3	
30 - 34	4	
35 - 39	5	
40 - 44	6	
45 - 49	7	
50 - 54	8	
55 - 59	9	
60 - 64	0	
65+	X	

STATUS — Col 44

*Married — 1
*Separated — 2
Not married(S/W/D) — ③

*If woman married or separated
and husband not H.H, enter
husband's occupation

....

SEX   MAN — ⓪

WOMAN -Housewife — X
-Not housewife — Y

TERMINAL AGE OF EDUCATION — Col 45

How old were you when
you finished your full-time
education?

15 and under....	1
16..............	2
17..............	3
18..............	4
19-23...........	⑤
24 or over......	6
Not yet finished	7

INFORMANT IS.....

H.H./C.W.E. — ⑨
Not H.H./C.W.E. — 0

ASCERTAIN EMPLOYMENT
DETAILS OF H.H./C.W.E.

SOCIAL GRADE of head of
household/chief
wage earner — Col 46

A	1	
B	2	
C1	3	
C2	4	
D	⑤	
E	6	

HOUSEHOLD COMPOSITION — Cols 47-50

Adults 16+	3
Children 5-15	0
Infants 0-4	0
TOTAL	3

Card C. ▭

INFORMANT'S NAME AND HOME ADDRESS (Block Capitals)

NAME (Mr/Mrs/Miss) ▓▓▓▓▓▓   (Initials) ▓▓▓▓

HOME ADDRESS (N.B. PROVIDE __FULL__ POSTAL ADDRESS – VERY IMPORTANT)

▓▓▓▓▓▓▓▓▓▓▓▓▓

(Please Tick ✓)

| HOME TEL. NO: ▓▓▓▓▓▓ | NONE | | REFUSED | |

WHERE INTERVIEWED

Home 1
Work (2)
Elsewhere 3

→ ADDRESS WHERE INTERVIEWED: ▓▓▓▓▓▓▓

IF NOT INTERVIEWED AT HOME:

(a) Does your home address come under the area of (READ OUT FULL NAME OF QUOTA DISTRICT)?

Yes (1)   *Col 51*
No (2)
D/K 3

IF NO OR DON'T KNOW AT (a) ASK (b)

(b) In which local council area is your home address (WRITE IN) ▓▓▓▓

QUOTA DISTRICT: ...▓▓▓▓ ▓▓▓...

AREA CODE Q.D.	CN		LA		Cols	(Space 52)
	▓	▓	▓	▓	53 – 56	(Space 57-59)
(OFFICE USE) RES.					60 – 63	(Space 64,65)

DAY OF WEEK (RING ONE CODE)

Mon (1)	Tues 2	Wed 3	*Col 66*
Thurs 4	Fri 5	Sat 6	
	O.U.O. 7	8	*(Space 67)*

TWINS

(a) Have you a twin brother/sister?
    IF 'YES' AT (a) ASK (b)

Yes 1   *Col 68*
No (2)

(b) Are you identical twins?
    IF 'YES' AT (b) ASK (c)

Yes 4
No 5

(c) Is he/she still alive?

Yes 7
No 8

NET INCOME OF HEAD OF HOUSEHOLD OR C.W.E. (HAND CARD)

Which of these comes closest to your (his/her) income – that is, after deducting income tax, national insurance, pension schemes and so on?

O.A.P. and/or Social Security ONLY	X
£1,210	0
£1,520	1
£1,820	2
£2,370	3
£2,960	4
£3,700	(5)
£4,630	6
£5,880	7
£7,230	8
£9,040 or more	9
(Don't know)	Y

LENGTH OF INTERVIEW (RING ONE CODE)

1– 5 mins	1	*Col 69*
6–15 mins	(2)	
16–20 mins	3	
21–25 mins	4	
26–30 mins	5	
31 mins and over	6	

ACCOMPANIED BY SUPERVISOR

Yes 0
No (X)

<u>DATE</u>

	Col 70	Col 71
Day of month of interview (two digits)	2	0

Month of interview:		Col 72
September	9	
October	⓪	
November	X	
December	Y	
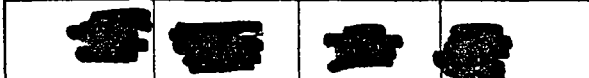
		Col 73
A) Does anyone (else) in your household smoke manufactured cigarettes?	Yes	① → (B)
	No	②

IF 'YES' ASK (B)

B) Who else smokes manufactured cigarettes in your household?

		Col 74
Husband/Wife......................	1	
Son(s) 1	2	
2	3	
3 or more	4	
Write in actual no. _____		
Daughter(s) 1	5	
2	6	
3 or more	7	
Write in actual no. _____		
Father	8	
Mother	9	
Other relations living in household 1	1	Col 75
2	2	
3 or more	3	
Write in actual no. _____		
Friend/lodger living in household 1	4	
2	5	
3 or more	6	
Write in actual no. _____		
(Don't know)	Y	

(Space Col. 76)

File ACS80.DAT - Relevant data from the 1980 ACS for all persons originally interviewed in age group 25-65

Created 10.8.85 by Mrs.B.A.Forey
Description file is ACS80.DES

Summary

	Variable	Valid Codes	Missing code
1	SERIAL	XXXX	0
2	80MCNOW	1-2	0
3	80HRNOW	1-2	0
4	80PIPNOW	1-2	0
5	80CGRNOW	1-2	0
6	80MC1	1-2	0
7	80HR1	1-2	0
8	80PIP1	1-2	0
9	80CGR1	1-2	0
10	80MCEVR	1-2	0
11	80HREVR	1-2	0
12	80PIPEVR	1-2	0
13	80CGREVR	1-2	0
14	80MC	1-3	0
15	80HR	1-3	0
16	80PIP	1-3	0
17	80CGR	1-3	0
18	80CGRREG	1-4	0
19	80BREX	XXX	-1
20	YREX	XX	-1
21	80PRODEX	0-9	-1
22	AGESTR	XX	-1
23	80AVXNMC	XX	-1
24	80INHALE	0-4	5
25	80YESNMC	XX	-1
26	80LASTBR	XXX	-1
27	80EMPST	1-3	-1
28	80M/NM	0-2	-1
29	80OCCUP	1-12	-1
30	80SOCCL	1-6	-1
31	80AGE	XX	-1
32	80AGEEST	0-1	-1
33	80AGEGP	3-11	-1
34	80MARIED	1-3	-1
35	80SEX	1-3	-1
36	80EDUC	1-7	8
37	80HH	1-2	-1
38	80HHSOCL	1-6	-1
39	80ADULTS	1-10	-1
40	80CHILD	0-10	-1
41	80INFANTS	0-10	-1
42	80TOTHH	1-10	-1
43	80QDIST	0-3	-1
44	80DIST	XXXX	-1
45	80DAYIV	0-6	-1
46	80TWIN	1-3	0
47	80MINSIV	1-6	-1
48	80DATEIV	XXXX	-1
49	80OTHSMK	1-2	3
50	80SPOUSE	0-1	-1
51	80SONS	0-3	-1
52	80DAUTER	0-3	-1
53	80FATHER	0-1	-1
54	80MOTHER	0-1	-1
55	80OTHREL	0-3	-1
56	80LODGER	0-3	-1
57	FOLLOWUP	0-2	-1

Variable No.	Name	Description	Format	Source (Card/Col)	Level	Meaning	Not eligible	Not followed	Followed
1	SERIAL		8	All cards cols 1-5					
2	80MCNOW	Smokes manufactured cigarettes (self-defined)	2	1.8	1 2	No Yes	1484 1121	1209 920	319 236
3	80HRNOW	Smokes handrolled cigarettes (self-defined)	2	1.8	1 2	No Yes	2455 150	2006 123	516 39
4	80PIPNOW	Smokes a pipe (self-defined)	2	1.8	1 2	No Yes	2481 124	2040 89	533 22
5	80CGRNOW	Smokes at least one cigar per week	2	1.8	1 2	No Yes	2454 151	2011 118	534 21
6	80MC1	Smoked man.cigs. this time last year	2	1.9	1 2	No Yes	1429 1176	1177 952	305 250
7	80HR1	Smoked handrolled cigs. this time last year	2	1.9	1 2	No Yes	2456 149	2005 124	518 37
8	80PIP1	Smoked a pipe this time last year	2	1.9	1 2	No Yes	2482 123	2045 84	532 23
9	80CGR1	Smoked at least one cigar per week this time last year	.2	1.9	1 2	No Yes	2466 139	2016 113	532 23
10	80MCEVR	Ever smoked at least one man.cig. a day for as long as a year	2	1.10	1 2	No Yes	970 1635	779 1330	202 353
11	80HREVR	Ever smoked at least one handrolled cig. a day for as long as a year	2	1.10	1 2	No Yes	2373 232	1956 173	502 53
12	80PIPEVR	Ever smoked at least one pipe a day for as long as a year	2	1.10	1 2	No Yes	2429 176	1995 134	520 35
13	80CGREVR	Ever smoked at least one cigar per week for as long as a year	2	1.10	1 2	No Yes	2443 162	1994 135	526 29
14	80MC	Summary: man.cigs.	2	1.11	1 2 3	Current smoker(Yes at var 2) Ex-smoker (Yes at var 10) Other	1121 553 931	920 428 781	236 118 201
15	80HR	Summary: handrolled	2	1.11	1 2 3	Current Ex Other	150 103 	123 74 1932	39 22 494

Variable No.	Name	Description	Format	Source (Card/Col)	Level	Meaning	Not eligible	Not followed	Followed
16	80PIP	Summary: pipe	2	1.11	1	Current	124	89	22
					2	Ex	74	66	156
					3	Other	2407	1974	517
17	80CGR	Summary: cigars	2	1.11	1	Current	151	118	21
					2	Ex	43	31	12
					3	Other	2411	1980	522
18	80CGRREG	Summary: cigars, incl. occasional/ regular	2	1.11	1	Current	151	118	21
					2	Ex	43	31	12
					3	Occasional	375	286	60
					4	Other	2036	1694	462
19	80BREX	Last brand smoked regularly (smokers 1 yr ago, but not now)	3	1.12- 1.13	0	NA	2522	2071	536
					1-20	Plain brands	3	3	0
					21+	Filter brands	80	55	19
20	80YREX	Year gave up smoking (any product)	3	1.14- 1.15	-1	missing	32	20	2
					0	NA	2147	1771	456
					<50	pre-1950	15	16	4
					50-59		28	17	3
					60-69		90	70	25
					70-74		103	87	18
					75-79		149	111	35
					80		41	37	12
21	80PRODEX	What products smoking at that time	3	1.16	0	NA	2147	1771	456
					1	Man.cigs.	383	302	80
					2	HR cigs.	8	8	1
					3	Man. + HR cigs.	19	15	5
					4	Pipe	9	11	2
					5	Cigars	7	2	4
					6	Pipe and cigars	2	0	0
					7	Man.cigs. and pipe/cigar	21	15	3
					8	HR cigs. and pipe/cigar	0	1	0
					9	Man. + HR cigs and pipe/cigar	9	4	4
22	80AGESTR	Age started smoking regularly	3	1.17- 1.18	-1	missing	94	83	14
					0	NA	868	705	182
					<10		17	14	8
					11-15		311	249	79
					16-19		939	760	220
					20-24		263	226	34
					25-29		58	52	11
					30-34		34	24	1
					35+		21	16	6
23	80AVXNMC	Average man.cigs. per day before stopping	3	2.8- 2.9	-1	missing	19	9	1
					0	NA	2052	1701	437
					1- 7		57	54	17
					8-12		116	83	15
					13-17		68	52	11
					18-22		133	102	29
					23-27		21	19	5
					28-32		45	40	11
					33-37		4	5	3
					38-42		48	35	14
					43-47		7	5	0
					48+		35	24	12

Variable No.	Name	Description	Format	Source (Card/Col)	Level	Meaning	Not eligible	Not followed	Followed
24	80INHALE	Inhalation of man.cigs.	3	2.10	0	NA	931	781	201
					1	a lot	618	531	126
					2	a fair amount	536	420	116
					3	just a little	389	278	85
					4	not at all	116	109	23
					5	missing	15	10	4
25	80YESNMC	Number of man.cigs. smoked yesterday	3	2.10(6) 2.35- 2.36	-1	missing	2	1	0
					0		1523	1235	323
					1- 7		84	89	12
					8-12		145	129	39
					13-17		162	142	41
					18-22		329	253	69
					23-27		122	93	27
					28-32		111	85	20
					33-37		31	12	2
					38-42		59	55	15
					43-47		16	9	2
					48+		21	26	5
26	80LASTBR	Last brand bought (current smokers)	3	2.37- 2.38	0	NA	1484	1209	319
					1-20	Plain brands	77	32	16
					21+	Filter brands	1044	888	220
27	80EMPLST	Employment status	3	1.37	1	Working full-time	1736	1489	334
					2	Working part-time	256	214	80
					3	Not working	613	426	141
28	80M/NM	Manual/non-manual (present/last full-time job)	3	1.38	0	NA	2	5	1
					1	Manual	1437	1099	345
					2	Non-manual	1166	1025	209
29	80OCCUP	Occupation	2	1.39	-1	missing	869	640	221
					1	Farmers,foresters,fishermen	43	26	12
					2	Miners,quarrymen	13	6	2
					3	Construction workers	44	54	5
					4	Labourers	50	35	13
					5	Transport & communication wkrs.	122	93	34
					6	Clerical workers	288	276	45
					7	Sales workers	193	205	39
					8	Administrators,managers	108	99	8
					9	Professional & technical,artists	172	142	16
					10	Armed forces	5	6	0
					11	Other industrial occupations	434	323	101
					12	Other service occupations	264	224	59
30	80SOCCL	Social class	2	1.40	1	I	148	108	16
					2	II	546	462	98
					3	III	1333	1143	300
					4	IV	373	286	101
					5	V	129	80	28
					6	Unoccupied	76	50	12
31	AGE	Exact age	2	1.41- 1.42	<19		1	0	0
					20-24		0	0	0
					25-29		378	327	48
					30-34		380	307	67
					35-39		423	363	94
					40-44		267	252	78
					45-49		275	211	70
					50-54		237	186	60
					55-59		257	197	62
					60-64		344	253	64
					65+		43	33	12

Variable No.	Name	Description	Format	Source (Card/Col)	Level	Meaning	Not eligible	Not followed	Followed
32	80AGEEST	Age estimated by interviewer	2	1.42(X)	0	No	2557	2093	549
					1	Yes	48	36	6
33	80AGEGP	Age group	2	1.43	-1	missing	1	0	0
					3	25-29	378	327	48
					4	30-34	380	307	67
					5	35-39	423	363	94
					6	40-44	267	252	78
					7	45-49	275	211	70
					8	50-54	237	186	60
					9	55-59	257	197	62
					10	60-64	344	253	64
					11	65+	43	33	12
34	80MARIED	Marital status	2	1.44	-1	missing	1	0	0
					1	Married	2126	1695	478
					2	Separated	41	35	4
					3	Not married (S/W/D)	437	399	73
35	80SEX	Sex	2	1.44	-1	missing	1	0	0
					1	Male	1292	1064	265
					2	Female (housewife)	1239	1003	282
					3	Female (not housewife)	73	62	8
36	80EDUC	Age finished full-time education	2	1.45	1	15 and under	1554	1162	365
					2	16	538	490	92
					3	17	150	162	40
					4	18	133	110	18
					5	19-23	165	161	30
					6	24 or over	38	32	5
					7	Not yet finished	4	2	1
					8	missing (* includes erroneous -1)	23*	9	4
37	80HH	Head of household	2	1.45	-1	missing	1	-0	0
					1	Yes	1510	1247	293
					2	No	1094	882	262
38	80HHSOCL	Social grade of head of household	2	1.46	-1	missing	1	0	0
					1	A	81	73	15
					2	B	379	303	67
					3	C1	610	537	95
					4	C2	930	736	226
					5	D	520	399	136
					6	E	84	81	16
39	80ADULTS	Adults (16+) in household	2	1.47	-1	missing	1	0	0
					1		272	235	41
					2		1669	1344	320
					3		436	346	113
					4		167	152	54
					5		45	39	20
					6		7	11	6
					7		7	0	0
					8		1	1	1
					9		0	1	0
					10	10+	0	0	0

Variable No.	Name	Description	Format	Source (Card/Col)	Level	Meaning	Not eligible	Not followed	Followed
40	80CHILD	Children (5-15) in household	2	1.48	-1	missing	1	0	0
					0		1638	1343	320
					1		428	358	108
					2		415	319	101
					3		96	89	21
					4		23	17	5
					5		3	1	0
					6		1	1	0
					7		0	0	0
					8		0	1	0
					9		0	0	0
					10	10+	0	0	0
41	80INFANT	Infants (0-4) in household	2	1.49	-1	missing	1	0	0
					0		2242	1843	492
					1		272	218	54
					2		83	65	8
					3		6	3	1
					4		1	0	0
					5		0	0	0
42	80TOTHH	Total number in household	2	1.50	-1	missing	1	0	0
					1		240	203	29
					2		837	673	154
					3		510	432	131
					4		666	525	142
					5		233	204	62
					6		92	72	22
					7		16	11	11
					8		4	5	1
					9		2	2	0
					10	10+	4	2	1
43	80QDIST	Where interview conducted	2	1.51	0	At home	876	502	215
					1	Elsewhere-home in quota dist	309	1136	298
					2	Elsewhere-home not in quota dist	420	491	42
					3	Elsewhere-DK if home in " "	0	0	0
44	80DIST	Quota district	7	1.53-1.56					
45	80DAYIV	Day of week of interview	2	1.7 & 1.66	-1	missing	1	0	0
					0	Monday : yesterday = Saturday	351	272	74
					1	Monday : yesterday = Sunday	327	263	63
					2	Tues.	429	358	77
					3	Wed.	381	322	84
					4	Thurs.	406	307	80
					5	Fri.	351	316	78
					6	Sat.	359	291	99
46	80TWIN	Whether informant is a twin	2	1.68	0	missing	15	6	4
					1	No	2552	2090	544
					2	Yes - identical	10	12	4
					3	Yes - non-identical	28	21	3
47	80MINSIV	Length of interview	2	1.69	-1	missing	1	0	0
					1	1- 5 mins	306	260	66
					2	6-15	1878	1455	381
					3	16-20	269	265	77
					4	21-25	62	45	11
					5	26-30	17	6	0
					6	31+	6	0	0
					12	punched &, meaning not specified on questionnaire	66	98	20

Variable No. Name	Description	Format	Source (Card/Col)	Level	Meaning	Not eligible	Not followed	Followed
48 80DATEIV	Date of interview	5	1.70-1.72	DDMM				
49 80OTHSMK	Other man.cig. smokers in household	2	1.73	-1	missing	12	17	3
				1	Yes	994	795	237
				2	No	1599	1317	315
50 80SPOUSE	Spouse smokes (in household)	2	1.74-1.75	-1	missing	3	9	0
				0	No	1799	1486	367
				1	Yes	803	634	188
51 80SONS	Sons smoke (in household)	2	1.74-1.75	-1	missing	3	9	0
				0		2485	2012	514
				1		95	88	37
				2		13	17	3
				3	3+	9	3	1
52 80DAUTER	Daughters smoke (in household)	2	1.74-1.75	-1	missing	3	9	0
				0		2516	2061	530
				1		76	50	22
				2		9	8	2
				3	3+	1	1	1
53 80FATHER	Father smokes (in household)	2	1.74-1.75	-1	missing	3	9	0
				0	No	2575	2093	545
				1	Yes	27	27	10
54 80MOTHER	Mother smokes (in household)	2	1.74-1.75	-1	missing	3	9	0
				0	No	42	25	7
				1	Yes .	42	25	7
55 80OTHREL	Other relations smoke (in household)	2	1.75	-1	missing	3	9	0
				0		2556	2086	548
				1		34	27	7
				2		7	6	0
				3	3+	5	1	0
56 80LODGER	Lodgers smoke (in household)	2	1.75	-1	missing	3	9	0
				0		2586	2101	553
				1		13	18	1
				2		1	1	0
				3	3+	2	0	1
57 FOLLOWUP	Follow-up status	2	Which tape data supplied on	0	Not eligible(dist.not selected)	2605	0	0
				1	Not followed up(dist. selected)	0	2129	0
				2	Followed-up	0	0	555

File <u>FOLLOWUP.DAT</u> Data from 1980 ACS and 1985 follow-up for those persons who were followed-up.

Created 27.8.85 by Mrs.B.A.Forey
Description file is FOLLOWUP.DES

<u>Summary</u>

	Variable	Valid Codes	Missing code
1	SERIAL	XXXXX	0
2	80MCNOW	1-2	0
3	80HRNOW	1-2	0
4	80PIPNOW	1-2	0
5	80CGRNOW	1-2	0
6	80MC1	1-2	0
7	80HR1	1-2	0
8	80PIP1	1-2	0
9	80CGRI	1-2	0
10	80MCEVR	1-2	0
11	80HREVR	1-2	0
12	80PIPEVR	1-2	0
13	80CGREVR	1-2	0
14	80MC	1-3	0
15	80HR	1-3	0
16	80PIP	1-3	0
17	80CGR	1-3	0
18	80CGRREG	1-4	0
19	80BREX	XXX	-1
20	YREX	XX	-1
21	80PRODEX	0-9	-1
22	AGESTR	XX	-1
23	80AVXNMC	XX	-1
24	80INHALE	0-4	5
25	80YESNMC	XX	-1
26	80LASTBR	XXX	-1
27	80EMPST	1-3	-1
28	80M/NM	0-2	-1
29	80OCCUP	1-12	-1
30	80SOCCL	1-6	-1
31	80AGE	XX	-1
32	80AGEEST	0-1	-1
33	80AGEGP	3-11	-1
34	80MARIED	1-3	-1
35	80SEX	1-3	-1
36	80EDUC	1-7	8
37	80HH	1-2	-1
38	80HHSOCL	1-6	-1
39	80ADULTS	1-10	-1
40	80CHILD	0-10	-1
41	80INFANTS	0-10	-1
42	80TOTHH	1-10	-1
43	80QDIST	0-3	-1
44	80DIST	XXXX	-1
45	80DAYIV	0-6	-1
46	80TWIN	1-3	0
47	80MINSIV	1-6	-1
48	80DATEIV	XXXX	-1
49	80OTHSMK	1-2	3
50	80SPOUSE	0-1	-1
51	80SONS	0-3	-1
52	80DAUTER	0-3	-1
53	80FATHER	0-1	-1
54	80MOTHER	0-1	-1
55	80OTHREL	0-3	-1
56	80LODGER	0-3	-1
57	FOLLOWUP	0-2	-1

Variable		Valid Codes	Missing code
58	85MCNOW	1-2	0
59	85HRNOW	1-2	0
60	85PIPNOW	1-2	0
61	85CGRNOW	1-2	0
62	85MC1	1-2	0
63	85HR1	1-2	0
64	85PIP1	1-2	0
65	85CGR1	1-2	0
66	85MCEVR	1-2	0
67	85HREVR	1-2	0
68	85PIPEVR	1-2	0
69	85CGREVR	1-2	0
70	85MC	1-3	0
71	85HR	1-3	0
72	85PIP	1-3	0
73	85CGR	1-3	0
74	85YREX	XX	-1
75	85PRODEX	0-9	-1
76	85AGESTR	XX	-1
77	85AVXNMC	XX	-1
78	85YESNMC	XX	-1
79	85LASTBR	XXX	-1
80	85EMP	1-3	-1
81	85M/NM	0-2	-1
82	85OCCUP	1-12	-1
83	85SOCCL	1-6	-7
84	85AGE	XX	-1
85	85AGEEST	0-1	-1
86	85AGEGP	3-11	-1
87	85MARIED	1-3	-1
88	85SEX	1-3	-1
89	85EDUC	1-7	8
90	85HH	1-2	-1
91	85HHSOCL	1-6	-1
92	85ADULTS	1-10	-1
93	85CHILD	0-10	-1
94	85INFANT	0-10	-1
95	85TOTHH	1-10	-1
96	85WHERIV	1-3	-1
97	85DIST	XXXX	-1
98	85DAYIV	0-6	-1
99	85INCOME	1-10	-1
100	85MINSIV	1-6	-1
101	85DATEIV	XXXX	-1
102	85MC80	1-2	3
103	85HR80	1-2	3
104	85PIP80	1-2	3
105	85CGR80	1-2	3
106	85NMC80	XX	-1
107	85BR80	XXX	-1

1980 No.	1980 Name	1985 No.	1985 Name	Description	SOURCE 1980	SOURCE 1985	Level	Meaning	1980	1985
1	SERIAL				All cards cols 1-5					
2	80MCNOW	58	85MCNOW	Smokes manufactured cigarettes (self-defined)	1.8	3.8	1	No	319	362
							2	Yes	236	193
3	80HRNOW	59	85HRNOW	Smokes handrolled cigarettes (self-defined)	1.8	3.8	1	No	516	522
							2	Yes	39	33
4	80PIPNOW	60	85PIPNOW	Smokes a pipe (self-defined)	1.8	3.8	1	No	533	529
							2	Yes	22	26
5	80CGRNOW	61	85CGRNOW	Smokes at least one cigar per week	1.8	3.8	1	No	534	528
							2	Yes	21	27
6	80MC1	62	85MC1	Smoked man.cigs.this time last year	1.9	3.9	1	No	305	342
							2	Yes	250	213
7	80HR1	63	85HR1	Smoked handrolled cigs. this time last year	1.9	3.9	1	No	518	519
							2	Yes	37	36
8	80PIP1	64	85PIP1	Smoked a pipe this time last year	1.9	3.9	1	No	532	530
							2	Yes	23	25
9	80CGR1	65	85CGR1	Smoked at least one cigar per week this time last year	1.9	3.9	1	No	532	534
							2	Yes	23	21
10	80MCEVR	66	85MCEVR	Ever smoked at least one man.cig. a day for at least a year	1.10	3.10	1	No	202	185
							2	Yes	353	370
11	80HREVR	67	85HREVR	Ever smoked at least one handrolled cig. a day for at least a year	1.10	3.10	1	No	502	480
							2	Yes	53	75
12	80PIPEVR	68	85PIPEVR	Ever smoked at least one pipe a day for at least a year	1.10	3.10	1	No	520	497
							2	Yes	35	58
13	80CGREVR	69	85CGREVR	Ever smoked one cigar per week for as long as a year	1.10	3.10	1	No	526	508
							2	Yes	29	47
14	80MC	70	85MC	Summary : man.cigs.	1.11	3.11	1	Current smoker(Yes var 2/58)	236	193
							2	Ex smoker (Yes var10/66)	118	179
							3	Other	201	183
15	80HR	71	85HR	Summary : handrolled	1.11	3.11	1	Current	39	33
							2	Ex	22	50
							3	Other	494	472
16	80PIP	72	85PIP	Summary : pipe	1.11	3.11	1	Current	22	26
							2	Ex	16	38
							3	Other	517	491
17	80CGR	73	85CGR	Summary : cigars	1.11	3.11	1	Current	21	27
							2	Ex	12	24
							3	Other	522	504

1980 No.	1980 Name	1985 No.	1985 Name	Description	SOURCE 1980	SOURCE 1985	Level	Meaning	1980	1985
18	80CGRREG			Summary : cigars, incl. occasional/regular	1.11		1	Current	21	
							2	Ex	12	
							3	Occasional	60	
							4	Other	462	
19	80BREX			Last brand smoked regularly (smokers 1 yr ago, but not now)	1.12- 1.13		0	NA	536	
							1-20	Plain brands	0	
							21+	Filter brands	19	
20	80YREX	74	85YREX	Year gave up smoking (any product)	1.14- 1.15	3.14- 3.15	-1	missing	2	4
							0	NA	456	402
							<50	pre 1950	4	4
							50-59		3	7
							60-69		25	16
							70-74		18	20
							75-79		35	28
							80-84		12	61
							85		-	13
21	80PRODEX	75	85PRODEX	What products smoking at that time	1.16	3.16	0	NA	456	402
							1	Man.cigs.	80	118
							2	HR cigs.	1	5
							3	Man. + HR cigs.	5	6
							4	Pipe	2	3
							5	Cigars	4	5
							6	Pipe and cigars	0	0
							7	Man.cigs. + pipe/cigar	3	12
							8	HR cigs. + pipe/cigar	0	0
							9	Man. + HR + pipe/cigar	4	4
22	80AGESTR	76	85AGESTR	Age started smoking regularly	1.17- 1.18	3.17- 3.18	-1	missing	14	32
							0	NA	182	172
							<10		8	4
							11-15		79	90
							16-19		220	187
							20-24		34	52
							25-29		11	10
							30-34		1	5
							35+		6	3
23	80AVXNMC	77	85AVXNMC	Average man.cigs. per day before stopping	2.8- 2.9	4.8- 4.9	-1	missing	1	7
							0	NA	437	376
							1- 7		15	33
							8-12		15	33
							13-17		11	17
							18-22		29	41
							23-27		5	8
							28-32		11	14
							33-37		3	4
							38-42		14	19
							43-47		0	0
							48+		12	17
24	80INHALE			Inhalation of man.cigs.	2.10		0	NA	201	
							1	a lot	126	
							2	a fair amount	116	
							3	just a little	85	
							4	not at all	23	
							5	missing	4	

1980 No.	1980 Name	1985 No.	1985 Name	Description	SOURCE 1980	SOURCE 1985	Level	Meaning	1980	1985
25	80YESNMC	78	85YESNMC	Number of man.cigs. smoked yesterday	2.10 (6) 2.35- 2.36	4.10 (6) 4.35- 4.36	-1 0 1- 7 8-12 13-17 18-22 23-27 28-32 33-37 38-42 43-47 48+	missing	0 323 12 39 41 69 27 20 2 15 2 5	0 366 12 37 43 54 21 12 2 2 1 5
26	80LASTBR	79	85LASTBR	Last brand bought (current smokers)	2.37- 2.38	4.37- 4.38	0 1-20 21+	NA Plain brands Filter brands	319 16 220	362 8 185
27	80EMPLST	80	85EMPLST	Employment status	1.37	3.37	1 2 3	Working full-time Working part-time Not working	334 80 141	258 93 204
28	80M/NM	81	85M/NM	Manual/non-manual (present/last full-time job)	1.38	3.38	0 1 2	NA Manual Non-manual	1 345 209	5 331 219
29	80OCCUP	82	85OCCUP	Occupation	1.39	3.39	-1 1 2 3 4 5 6 7 8 9 10 11 12	missing Farmers,foresters,fishermen Miners,quarrymen Construction workers Labourers Transport communication workers Clerical workers Sales workers Administrators,managers Professional & technical, artists Armed forces Other industrial occupations Other service occupations	221 12 2 5 13 34 45 39 8 16 0 101 59	297 8 2 11 10 21 33 33 15 21 0 67 32
30	80SOCCL	83	85SOCCL	Social class	1.40	3.40	-7 1 2 3 4 5 6	Missing I II III IV V Unoccupied	16 98 300 101 28 12	4 17 102 282 93 23 34
31	80AGE	84	85AGE	Exact age	1.41- 1.42	3.41- 3.42	25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79		48 67 94 78 70 60 62 64 12 · ·	9 44 67 93 78 70 67 73 41 11 2
32	80AGEEST	85	85AGEEST	Age estimated by interviewer	1.42 (X)	3.42 (X)	0 1	No Yes	549 6	537 18

1980 No.	Name	1985 No.	Name	Description	SOURCE 1980	SOURCE 1985	Level	Meaning	1980	1985
33	80AGEGP	86	85AGEGP	Age group	1.43	3.43	-1	missing	0	0
							3	25-29	48	9
							4	30-34	67	44
							5	35-39	94	67
							6	40-44	78	93
							7	45-49	70	78
							8	50-54	60	70
							9	55-59	62	67
							10	60-64	64	73
							11	65+	12	54
34	80MARIED	87	85MARIED	Marital status	1.44	3.44	-1	missing	0	0
							1	Married	478	452
							2	Separated	4	4
							3	Not married (S/W/D)	73	99
35	80SEX	88	85SEX	Sex	1.44	3.44	-1	missing	0	0
							1	Male	265	265
							2	Female (housewife)	282	286
							3	Female (not housewife)	8	4
36	80EDUC	89	85EDUC	Age finished full-time education	1.45	3.45	1	15 and under	365	371
							2	16	92	85
							3	17	40	41
							4	18	18	16
							5	19-23	30	34
							6	24 or over	5	3
							7	Not yet finished	1	0
							8	missing	4	5
37	80HH	90	85HH	Head of household	1.45	3.45	-1	missing	0	1
							1	Yes	293	320
							2	No	262	235
38	80HHSOCL	91	85HHSOCL	Social grade of head of household	1.46	3.46	1	A	15	6
							2	B	67	61
							3	C1	95	117
							4	C2	226	184
							5	D	136	116
							6	E	16	70
39	80ADULTS	92	85ADULTS	Adults (16+) in household	1.47		-1	missing		4
							1		41	53
							2		320	292
							3		113	137
							4		54	51
							5		20	16
							6		6	1
							7		0	1
							8		1	0
							9		0	0
							10	10+	0	0
40	80CHILD	93	85CHILD	Children (5-15) in household	1.48	3.48	-1	missing		5
							1		108	112
							2		101	57
							3		21	17
							4		5	5
							5		0	1
							6		0	0
							7		0	0
							8		0	0
							9		0	0
							10		0	0

1980 No.	1980 Name	1985 No.	1985 Name	Description	SOURCE 1980	SOURCE 1985	Level	Meaning	1980	1985
41	80INFANT	94	85INFANT	Infants (0-4) in household	1.49	3.49	-1	missing		5
							1		54	41
							2		8	11
							3		1	1
							4		0	0
							5		0	0
42	80TOTHH	95	85TOTHH	Total number in household	1.50	3.50	-1	missing		5
							1		29	42
							2		154	176
							3		131	114
							4		142	146
							5		64	50
							6		22	16
							7		11	6
							8		1	0
							9		0	0
							10	10+	1	0
43	80QDIST			Where interview conducted	1.51		0	At home	215	
							1	Elsewhere-home in quota dist	298	
							2	Elsewhere-home not in " "	42	
							3	Elsewhere-DK if home in " "	0	
		96	85WHERIV	Where interview conducted		3.51	1	At home		540
							2	At work		13
							3	Other		2
44	80DIST	97	85DIST	Quota district	1.53-1.56	3.53-3.56				
45	80DAYIV	98	85DAYIV	Day of week of interview	1.7 & 1.66	3.7 & 3.66	0	Monday: "yesterday" = Sat.	74	67
							1	Monday: "yesterday" = Sun.	6	52
							2	Tues.	77	131
							3	Wed.	84	86
							4	Thurs.	80	88
							5	Fri.	78	69
							6	Sat.	99	62
46	80TWIN			Whether information is a twin	1.68		0	missing	4	
							1	No	544	
							2	Yes - identical	4	
							3	No - non-identical	3	
		99	85INCOME	Net income of head of household		3.67	-1	DK		228
							0	1,600		8
							1	2,000		9
							2	2,500		11
							3	3,120		14
							4	3,890		28
							5	4,876		45
							6	6,080		61
							7	7,600		29
							8	9,500		34
							9	11,900 or more		35
							10	OAP/Social Security only		53
47	80MINSIV	100	85MINSIV	Length of interview	1.69	3.69	1	1- 5 mins	66	156
							2	6-15	381	381
							3	16-20	77	9
							4	21-25	11	1
							5	26-30	0	0
							6	31+	0	0
							12	unknown	20	8

1980 No.	Name	1985 No.	Name	Description	SOURCE 1980	1985	Level	Meaning	1980	1985
48	80DATEIV	101	85DATEIV	Date of interview	1.70- 1.72	3.70- 3.72	DDMM			
49	80OTHSMK			Other man.cig.smokers in household	1.73		-1 1 2	missing Yes No	3 237 315	
50	80SPOUSE			Spouse smokes (in household)	1.74- 1.75		1 2	No Yes	367 188	
51	80SONS			Sons smoke (in household)	1.74- 1.75		0 1 2 3	 3+	514 37 3 1	
52	80DAUTER			Daughters smoke (in household)	1.74- 1.75		0 1 2 3	 3+	530 22 2 1	
53	80FATHER			Father smokes (in household)	1.74- 1.75		0 1	No Yes	545 10	
54	80MOTHER			Mother smokes (in household)	1.74- 1.75		0 1	No Yes	548 7	
55	80OTHREL			Other relations smoke (in household)	1.75		0 1 2 3	 3+	548 7 0 0	
56	80LODGER			Lodgers smoke (in household)	1.75		0 1 2 3	 3+	553 1 0 1	
57	FOLLOWUP			Follow-up status			2	Followed-up	555	
		102	85MC80	Recall 80: smoked man.cigs. in 1980		4.53	1 2 3	Yes No DK		266 279 10
		103	85HR80	Recall 80: smoked handrolled cigs. in 1980		4.54	1 2 3	Yes No DK		39 504 12
		104	85PIP80	Recall 80: smoked a pipe in 1980		4.55	1 2 3	Yes No DK		29 512 14
		105	85CGR80	Recall 80: smoked one cigar per week in 1980		4.56	1 2 3	Yes No DK		24 519 12

1980 No.	Name	1985 No.	Name	Description	SOURCE 1980	1985	Level	Meaning	1980	1985
		106	85NMC80	Recall 80: Average man.cigs. per day in 1980		4.57-4.58	-1 0 1- 7 8-12 13-17 18-22 23-27 28-32 33-37 38-42 43-47 48+			5 290 21 39 38 97 20 15 4 16 1 9
		107	85BR80	Recall 80: Brand smoked most often in 1980		4.59-4.60	0 1-20 21+	NA Plain brands Filter brands		289 23 243

.

TABLE 1 FOLLOWED UP : SEX

FACTOR: SEX   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE

			2*K ANALYSIS				2*2 ANALYSES			
SEX	OBSERVED		EXPECTED	HOMOG-	TREND	CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES CONTROLS	ENEITY			(1DF)			
MALE	259	2363	267.702354.30	0.96	0.00					
FEMALE	281	2386	272.302394.70	1.04	0.00	0.56	0.4563	1.07	(0.90,	1.28)

TABLE   2   FOLLOWED UP : AGE(4)

FACTOR: AGE   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

AGE	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
25-34	47	726	76.39	696.61	0.59	1.00					
35-44	81	622	69.47	633.53	1.19	2.00	13.08	0.0003	2.01	(1.39,	2.91)
45-54	72	473	53.86	491.14	1.39	3.00	18.92	0.0000	2.35	(1.61,	3.43)
55-65	59	541	59.29	540.71	0.99	4.00	6.16	0.0131	1.68	(1.13,	2.50)

```
                        CHISQ   21.45    7.37
                        D.F.        3       1
                        PROB   0.0001  0.0066
```

TABLE   2   FOLLOWED UP : AGE(4)

FACTOR: AGE   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

AGE	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
25-34	63	671	77.34	656.66	0.80	1.00					
35-44	88	686	81.55	692.45	1.09	2.00	2.94	0.0863	1.37	(0.97,	1.92)
45-54	56	438	52.05	441.95	1.09	3.00	2.25	0.1336	1.36	(0.93,	1.99)
55-65	74	591	70.07	594.93	1.06	4.00	2.28	0.1314	1.33	(0.94,	1.90)

```
                        CHISQ    4.12    2.11
                        D.F.        3       1
                        PROB   0.2487  0.1466
```

TABLE   2   FOLLOWED UP : AGE(4)

FACTOR: AGE   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

AGE	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
25-34	110	1397	153.72	1353.28	0.69	1.00					
35-44	169	1308	151.02	1325.98	1.13	2.00	14.28	0.0002	1.63	(1.27,	2.09)
45-54	128	911	105.90	933.10	1.24	3.00	17.75	0.0000	1.79	(1.37,	2.33)
55-65	133	1132	129.36	1135.64	1.03	4.00	8.07	0.0045	1.48	(1.14,	1.92)

```
                        CHISQ   21.48    8.57
                        D.F.        3       1
                        PROB   0.0001  0.0034
```

TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION
SEX	AGE	
MALE	35-44	1.21
	45-54	1.97
	55-65	0.42
FEMALE	35-44	1.03
	45-54	1.97
	55-65	0.32

	CHISQ	DF	PROB
35-44	2.25	1	0.1340
45-54	3.94	1	0.0473
55-65	0.74	1	0.3903

TABLE 3 FOLLOWED UP : SOCIAL CLASS (4)

FACTOR: SOCCL   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

SOCCL	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
AB	32	414	44.07	401.93	0.70	1.00					
C1	40	541	57.41	523.59	0.67	2.00	0.00	0.9544	0.96	(0.59,	1.55)
C2	110	893	99.11	903.89	1.12	3.00	4.60	0.0320	1.59	(1.06,	2.40)
DE	77	514	58.40	532.60	1.37	4.00	8.64	0.0033	1.94	(1.27,	2.97)
				CHISQ	17.42	15.28					
				D.F.	3	1					
				PROB	0.0006	0.0001					

TABLE 3 FOLLOWED UP : SOCIAL CLASS (4)

FACTOR: SOCCL   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

SOCCL	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
AB	50	422	49.73	422.27	1.01	1.00					
C1	50	611	69.64	591.36	0.69	2.00	2.77	0.0959	0.69	(0.46,	1.04)
C2	109	780	93.67	795.33	1.19	3.00	0.68	0.4107	1.18	(0.83,	1.68)
DE	72	573	67.96	577.04	1.07	4.00	0.04	0.8381	1.06	(0.72,	1.55)
				CHISQ	9.27	1.99					
				D.F.	3	1					
				PROB	0.0260	0.1578					

TABLE 3 FOLLOWED UP : SOCIAL CLASS (4)

FACTOR: SOCCL   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

SOCCL	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
AB	82	836	93.80	824.20	0.86	1.00					
C1	90	1152	127.06	1114.94	0.69	2.00	1.90	0.1679	0.79	(0.58,	1.08)
C2	219	1673	192.78	1699.22	1.15	3.00	4.52	0.0335	1.35	(1.03,	1.76)
DE	149	1087	126.36	1109.64	1.20	4.00	5.03	0.0249	1.40	(1.05,	1.85)
				CHISQ	22.20	13.73					
				D.F.	3	1					
				PROB	0.0001	0.0002					

TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION
SEX	SOCCL	
MALE	C1	0.58
	C2	0.64
	DE	2.23
FEMALE	C1	0.43
	C2	0.55
	DE	2.00

	CHISQ	DF	PROB
C1	1.02	1	0.3133
C2	1.18	1	0.2765
DE	4.23	1	0.0398

TABLE 4   FOLLOWED UP : MARITAL STATUS

FACTOR: MAR STAT   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

MAR STAT	OBSERVED		EXPECTED		HOMOG-ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
MARRIED	225	1948	214.73	1958.27	1.05	0.00					
SEP	1	31	3.16	28.84	0.29	0.00	1.09	0.2961	0.28	(0.04,	1.81)
SING/WD	33	383	41.11	374.89	0.79	0.00	2.02	0.1553	0.75	(0.51,	1.09)

			CHISQ	3.96	0.00
			D.F.	2	1
			PROB	0.1382	1.0000

TABLE 4   FOLLOWED UP : MARITAL STATUS

FACTOR: MAR STAT   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

MAR STAT	OBSERVED		EXPECTED		HOMOG-ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
MARRIED	240	1886	224.00	1902.00	1.08	0.00					
SEP	3	45	5.06	42.94	0.57	0.00	0.75	0.3877	0.52	(0.16,	1.67)
SING/WD	38	455	51.94	441.06	0.71	0.00	5.04	0.0248	0.66	(0.46,	0.94)

			CHISQ	6.39	0.00
			D.F.	2	1
			PROB	0.0409	1.0000

TABLE 4   FOLLOWED UP : MARITAL STATUS

FACTOR: MAR STAT   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

MAR STAT	OBSERVED		EXPECTED		HOMOG-ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
MARRIED	465	3834	438.73	3860.27	1.07	0.00					
SEP	4	76	8.22	71.78	0.46	0.00	2.27	0.1318	0.43	(0.16,	1.15)
SING/WD	71	838	93.05	815.95	0.74	0.00	7.16	0.0074	0.70	(0.54,	0.90)

			CHISQ	10.00	0.00
			D.F.	2	1
			PROB	0.0067	1.0000

TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION
SEX	MAR STAT	
MALE	SEP	0.18
	SING/WD	0.13
FEMALE	SEP	0.11
	SING/WD	0.10

	CHISQ	DF	PROB
SEP	0.29	1	0.5891
SING/WD	0.23	1	0.6309

TABLE 5   FOLLOWED UP : AGE FINISHED EDUCATION

FACTOR: AGEEDUC   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

AGEEDUC	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-	TREND	2*2 ANALYSES CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
UPTO15	179	1384	153.06	1409.94	1.19	1.00					
16	34	494	51.71	476.29	0.63	2.00	10.29	0.0013	0.53	(0.37,	0.77)
17-18	18	250	26.24	241.76	0.66	3.00	4.86	0.0275	0.56	(0.34,	0.91)
19+	24	221	23.99	221.01	1.00	4.00	0.43	0.5128	0.84	(0.54,	1.32)

		CHISQ	14.46	5.16
		D.F.	3	1
		PROB	0.0023	0.0232

TABLE 5   FOLLOWED UP : AGE FINISHED EDUCATION

FACTOR: AGEEDUC   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

AGEEDUC	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-	TREND	2*2 ANALYSES CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
UPTO15	174	1345	161.07	1357.93	1.09	1.00					
16	55	537	62.77	529.23	0.86	2.00	1.84	0.1744	0.79	(0.58,	1.09)
17-18	40	306	36.69	309.31	1.10	3.00	0.00	0.9699	1.01	(0.70,	1.46)
19+	12	181	20.47	172.53	0.56	4.00	4.32	0.0376	0.51	(0.28,	0.93)

		CHISQ	6.49	3.09
		D.F.	3	1
		PROB	0.0902	0.0786

TABLE 5   FOLLOWED UP : AGE FINISHED EDUCATION

FACTOR: AGEEDUC   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

AGEEDUC	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-	TREND	2*2 ANALYSES CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
UPTO15	353	2729	314.13	2767.87	1.14	1.00					
16	89	1031	114.48	1005.52	0.76	2.00	10.51	0.0012	0.66	(0.52,	0.85)
17-18	58	556	62.93	551.07	0.91	3.00	1.99	0.1583	0.80	(0.60,	1.07)
19+	36	402	44.46	393.54	0.79	4.00	3.80	0.0512	0.69	(0.48,	0.99)

		CHISQ	13.90	8.11
		D.F.	3	1
		PROB	0.0030	0.0044

TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION
SEX	AGEEDUC	
MALE	16	1.32
	17-18	2.03
	19+	0.73
FEMALE	16	1.15
	17-18	1.56
	19+	0.94

	CHISQ	DF	PROB
16	2.47	1	0.1161
17-18	3.59	1	0.0582
19+	1.67	1	0.1963

TABLE 6 FOLLOWED UP : EMPLOYMENT STATUS

FACTOR: EMPLSTAT   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

EMPLSTAT	2*K ANALYSIS					2*2 ANALYSES				
	OBSERVED		EXPECTED		HOMOG-	TREND	CHI2	PROB	R	LIMITS
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)		
FULLTIME	237	2163	237.07	2162.93	1.00	0.00				
PARTTIME	2	13	1.48	13.52	1.40	0.00	0.00	0.9893	1.40 (0.32, 6.22)
NOTWORK	20	187	20.45	186.55	0.98	0.00	0.00	0.9818	0.98 (0.60, 1.58)

	CHISQ	0.21	0.00
	D.F.	2	1
	PROB	0.8994	1.0000

TABLE 6 FOLLOWED UP : EMPLOYMENT STATUS

FACTOR: EMPLSTAT   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

EMPLSTAT	2*K ANALYSIS					2*2 ANALYSES				
	OBSERVED		EXPECTED		HOMOG-	TREND	CHI2	PROB	R	LIMITS
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)		
FULLTIME	90	1069	122.11	1036.89	0.71	0.00				
PARTTIME	77	458	56.37	478.63	1.43	0.00	17.34	0.0000	2.00 (1.45, 2.75)
NOTWORK	114	859	102.52	870.48	1.13	0.00	9.09	0.0026	1.58 (1.18, 2.10)

	CHISQ	19.31	0.00
	D.F.	2	1
	PROB	0.0001	1.0000

TABLE 6 FOLLOWED UP : EMPLOYMENT STATUS

FACTOR: EMPLSTAT   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

EMPLSTAT	2*K ANALYSIS					2*2 ANALYSES				
	OBSERVED		EXPECTED		HOMOG-	TREND	CHI2	PROB	R	LIMITS
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)		
FULLTIME	327	3232	359.19	3199.81	0.90	0.00				
PARTTIME	79	471	57.85	492.15	1.43	0.00	17.39	0.0000	1.97 (1.44, 2.69)
NOTWORK	134	1046	122.96	1057.04	1.10	0.00	6.37	0.0116	1.38 (1.08, 1.77)

	CHISQ	16.97	0.00
	D.F.	2	1
	PROB	0.0002	1.0000

TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION
SEX	EMPLSTAT	
MALE	PARTTIME	0.20
	NOTWORK	2.06
FEMALE	PARTTIME	0.01
	NOTWORK	0.76

	CHISQ	DF	PROB
PARTTIME	0.21	1	0.6502
NOTWORK	2.82	1	0.0931

TABLE   7   FOLLOWED UP : N ADULTS IN HOUSEHOLD

FACTOR: ADULTS   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

ADULTS	OBSERVED		EXPECTED		HOMOG-ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
1	14	218	22.93	209.07	0.59	1.00					
2	158	1535	167.30	1525.70	0.94	2.00	2.34	0.1264	1.60	(0.92,	2.81)
3	52	389	43.58	397.42	1.22	3.00	5.06	0.0245	2.08	(1.14,	3.80)
4+	35	220	25.20	229.80	1.45	4.00	7.10	0.0077	2.48	(1.32,	4.66)

CHISQ   10.46   10.25
D.F.   3   1
PROB   0.0150 0.0014

TABLE   7   FOLLOWED UP : N ADULTS IN HOUSEHOLD

FACTOR: ADULTS   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

ADULTS	OBSERVED		EXPECTED		HOMOG-ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
1	27	289	33.29	282.71	0.79	1.00					
2	155	1485	172.79	1467.21	0.89	2.00	0.16	0.6874	1.12	(0.73,	1.71)
3	55	399	47.83	406.17	1.17	3.00	2.13	0.1443	1.48	(0.91,	2.39)
4+	44	213	27.08	229.92	1.75	4.00	8.81	0.0030	2.21	(1.34,	3.65)

CHISQ   16.39   14.48
D.F.   3   1
PROB   0.0009 0.0001

TABLE   7   FOLLOWED UP : N ADULTS IN HOUSEHOLD

FACTOR: ADULTS   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

ADULTS	OBSERVED		EXPECTED		HOMOG-ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
1	41	507	56.22	491.78	0.71	1.00					
2	313	3020	340.09	2992.91	0.91	2.00	1.91	0.1668	1.29	(0.92,	1.81)
3	107	788	91.41	803.59	1.19	3.00	7.12	0.0076	1.70	(1.17,	2.47)
4+	79	433	52.28	459.72	1.60	4.00	16.68	0.0000	2.31	(1.56,	3.43)

CHISQ   25.17   24.67
D.F.   3   1
PROB   0.0000 0.0000

TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION
SEX	ADULTS	
MALE	2	0.58
	3	0.43
	4+	0.04
FEMALE	2	0.43
	3	0.32
	4+	0.03

	CHISQ	DF	PROB
2	1.00	1	0.3164
3	0.75	1	0.3871
4+	0.07	1	0.7869

TABLE 8 FOLLOWED UP : TOTAL N IN HOUSEHOLD

FACTOR: TOT HH   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
TOT HH	CASES	CONTROLS	CASES	CONTROLS							
1	14	211	22.23	202.77	0.61	1.00					
2	75	722	78.76	718.24	0.95	2.00	1.86	0.1728	1.57	(0.87,	2.82)
3	56	484	53.36	486.64	1.06	3.00	2.80	0.0940	1.74	(0.96,	3.18)
4	68	590	65.02	592.98	1.05	4.00	2.89	0.0890	1.74	(0.96,	3.13)
5+	46	355	39.63	361.37	1.18	5.00	3.99	0.0458	1.95	(1.06,	3.61)

	CHISQ	5.01	3.68
	D.F.	4	1
	PROB	0.2858	0.0550

TABLE 8 FOLLOWED UP : TOTAL N IN HOUSEHOLD

FACTOR: TOT HH   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
TOT HH	CASES	CONTROLS	CASES	CONTROLS							
1	15	232	26.02	220.98	0.55	1.00					
2	77	790	91.35	775.65	0.83	2.00	1.65	0.1995	1.51	(0.85,	2.66)
3	69	464	56.16	476.84	1.26	3.00	7.59	0.0059	2.30	(1.30,	4.06)
4	72	603	71.12	603.88	1.01	4.00	3.94	0.0472	1.85	(1.05,	3.26)
5+	48	297	36.35	308.65	1.37	5.00	8.48	0.0036	2.50	(1.39,	4.51)

	CHISQ	15.20	9.95
	D.F.	4	1
	PROB	0.0043	0.0016

TABLE 8 FOLLOWED UP : TOTAL N IN HOUSEHOLD

FACTOR: TOT HH   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
TOT HH	CASES	CONTROLS	CASES	CONTROLS							
1	29	443	48.26	423.74	0.57	1.00					
2	152	1512	170.11	1493.89	0.88	2.00	3.86	0.0495	1.54	(1.02,	2.31)
3	125	948	109.52	963.48	1.16	3.00	10.62	0.0011	2.02	(1.34,	3.05)
4	140	1193	136.14	1196.86	1.03	4.00	7.30	0.0069	1.79	(1.19,	2.70)
5+	94	652	75.98	670.02	1.27	5.00	12.84	0.0003	2.22	(1.45,	3.39)

	CHISQ	18.04	12.94
	D.F.	4	1
	PROB	0.0012	0.0003

TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION
SEX	TOT HH	
MALE	2	0.00
	3	0.23
	4	0.01
	5+	0.16
FEMALE	2	0.00
	3	0.19
	4	0.01
	5+	0.15

	CHISQ	DF	PROB
2	0.01	1	0.9282
3	0.42	1	0.5179
4	0.02	1	0.8849
5+	0.31	1	0.5768

TABLE 9 FOLLOWED UP : WHERE INTERVIEWED

FACTOR: WHEREIV   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

WHEREIV	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
HOME	84	533	60.95	556.05	1.44	0.00					
OTHR(Y)	146	1199	132.86	1212.14	1.11	0.00	2.85	0.0914	0.77	(0.58,	1.03)
OTHR(N)	29	631	65.19	594.81	0.42	0.00	32.45	0.0000	0.29	(0.19,	0.44)

CHISQ   33.40   0.00
D.F.   2   1
PROB   0.0000   1.0000

TABLE 9 FOLLOWED UP : WHERE INTERVIEWED

FACTOR: WHEREIV   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

WHEREIV	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
HOME	127	849	102.83	873.17	1.27	0.00					
OTHR(Y)	143	1255	147.30	1250.70	0.97	0.00	4.14	0.0418	0.76	(0.59,	0.98)
OTHR(N)	11	282	30.87	262.13	0.33	0.00	18.97	0.0000	0.26	(0.14,	0.47)

CHISQ   20.78   0.00
D.F.   2   1
PROB   0.0000   1.0000

TABLE 9 FOLLOWED UP : WHERE INTERVIEWED

FACTOR: WHEREIV   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

WHEREIV	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
HOME	211	1382	163.78	1429.22	1.33	0.00					
OTHR(Y)	289	2454	280.15	2462.85	1.04	0.00	7.25	0.0071	0.77	(0.63,	0.93)
OTHR(N)	40	913	96.07	856.93	0.39	0.00	52.03	0.0000	0.28	(0.20,	0.39)

CHISQ   54.14   0.00
D.F.   2   1
PROB   0.0000   1.0000

TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION

SEX   WHEREIV

SEX	TEST FACTOR	CHISQ CONTRIBUTION
MALE	OTHR(Y)	0.00
	OTHR(N)	0.04
FEMALE	OTHR(Y)	0.00
	OTHR(N)	0.04

	CHISQ	DF	PROB
OTHR(Y)	0.01	1	0.9420
OTHR(N)	0.08	1	0.7730

TABLE 10   FOLLOWED UP : DAY INTERVIEWED

FACTOR: DAYIV   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

DAYIV	OBSERVED		2*K ANALYSIS				2*2 ANALYSES			
			EXPECTED		HOMOG- ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS
	CASES	CONTROLS	CASES	CONTROLS						
MON(SAT)	33	329	35.77	326.23	0.91	0.00				
MON(SUN)	31	293	32.02	291.98	0.96	0.00	0.01	0.9429	1.05	(0.63, 1.77)
TUES	40	382	41.70	380.30	0.95	0.00	0.00	0.9594	1.04	(0.64, 1.69)
WED	39	347	38.14	347.86	1.02	0.00	0.11	0.7388	1.12	(0.69, 1.82)
THURS	33	356	38.44	350.56	0.85	0.00	0.03	0.8596	0.92	(0.56, 1.53)
FRI	30	351	37.65	343.35	0.78	0.00	0.23	0.6345	0.85	(0.51, 1.43)
SAT	53	304	35.28	321.72	1.59	0.00	5.07	0.0244	1.74	(1.10, 2.75)

```
                          CHISQ   12.83   0.00
                          D.F.    6       1
                          PROB    0.0459  1.0000
```

TABLE 10   FOLLOWED UP : DAY INTERVIEWED

FACTOR: DAYIV   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

DAYIV	OBSERVED		2*K ANALYSIS				2*2 ANALYSES			
			EXPECTED		HOMOG- ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS
	CASES	CONTROLS	CASES	CONTROLS						
MON(SAT)	40	295	35.30	299.70	1.15	0.00				
MON(SUN)	30	299	34.66	294.34	0.85	0.00	1.12	0.2907	0.74	(0.45, 1.22)
TUES	35	407	46.57	395.43	0.73	0.00	3.08	0.0790	0.63	(0.39, 1.02)
WED	43	358	42.25	358.75	1.02	0.00	0.16	0.6873	0.89	(0.56, 1.40)
THURS	45	359	42.57	361.43	1.06	0.00	0.05	0.8227	0.92	(0.59, 1.45)
FRI	45	319	38.35	325.65	1.20	0.00	0.00	0.9563	1.04	(0.66, 1.64)
SAT	43	349	41.30	350.70	1.05	0.00	0.09	0.7694	0.91	(0.57, 1.44)

```
                          CHISQ   6.15    0.00
                          D.F.    6       1
                          PROB    0.4067  1.0000
```

TABLE 10   FOLLOWED UP : DAY INTERVIEWED

FACTOR: DAYIV   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

DAYIV	OBSERVED		2*K ANALYSIS				2*2 ANALYSES			
			EXPECTED		HOMOG- ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS
	CASES	CONTROLS	CASES	CONTROLS						
MON(SAT)	73	624	71.07	625.93	1.03	0.00				
MON(SUN)	61	592	66.68	586.32	0.91	0.00	0.39	0.5345	0.88	(0.61, 1.26)
TUES	75	789	88.27	775.73	0.84	0.00	1.26	0.2618	0.81	(0.58, 1.14)
WED	82	705	80.39	706.61	1.02	0.00	0.00	0.9832	0.99	(0.71, 1.38)
THURS	78	715	81.01	711.99	0.96	0.00	0.14	0.7106	0.92	(0.66, 1.30)
FRI	75	670	76.00	669.00	0.99	0.00	0.03	0.8526	0.95	(0.68, 1.34)
SAT	96	653	76.58	672.42	1.29	0.00	1.74	0.1874	1.26	(0.91, 1.73)

```
                          CHISQ   8.48    0.00
                          D.F.    6       1
                          PROB    0.2051  1.0000
```

TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION
SEX	DAYIV	

MALE	MON(SUN)	0.49
	TUES	1.04
	WED	0.25
	THURS	0.00
	FRI	0.18
	SAT	1.90
FEMALE	MON(SUN)	0.45
	TUES	1.03
	WED	0.22
	THURS	0.00
	FRI	0.14
	SAT	1.95

	CHISQ	DF	PROB
MON(SUN)	0.94	1	0.3325
TUES	2.07	1	0.1501
WED	0.47	1	0.4909
THURS	0.00	1	0.9993
FRI	0.32	1	0.5696
SAT	3.85	1	0.0498

TABLE   11   FOLLOWED UP : LENGTH OF INTERVIEW (MINS)

FACTOR: MINS IV   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

MINS IV	OBSERVED CASES	CONTROLS	EXPECTED CASES	CONTROLS	HOMOG-ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS	
1-5	28	231	25.59	233.41	1.11	1.00					
6-15	174	1644	179.65	1638.35	0.97	2.00	0.27	0.6046	0.87	(0.57,	1.33)
16-20	45	313	35.38	322.62	1.31	3.00	0.29	0.5886	1.19	(0.72,	1.96)
21+	12	174	18.38	167.62	0.63	4.00	2.01	0.1567	0.57	(0.28,	1.14)

	CHISQ	TREND
CHISQ	5.81	0.27
D.F.	3	1
PROB	0.1213	0.6032

FACTOR: MINS IV   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

MINS IV	OBSERVED CASES	CONTROLS	EXPECTED CASES	CONTROLS	HOMOG-ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS	
1-5	35	338	39.30	333.70	0.88	1.00					
6-15	196	1700	199.77	1696.23	0.98	2.00	0.21	0.6431	1.11	(0.76,	1.62)
16-20	32	221	26.66	226.34	1.23	3.00	1.35	0.2444	1.40	(0.84,	2.32)
21+	18	127	15.28	129.72	1.20	4.00	0.74	0.3901	1.37	(0.75,	2.50)

	CHISQ	TREND
CHISQ	2.34	2.02
D.F.	3	1
PROB	0.5042	0.1552

FACTOR: MINS IV   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

MINS IV	OBSERVED CASES	CONTROLS	EXPECTED CASES	CONTROLS	HOMOG-ENEITY	TREND	CHI2	PROB (1DF)	R	LIMITS	
1-5	63	569	64.89	567.11	0.97	1.00					
6-15	370	3344	379.42	3334.58	0.97	2.00	0.00	0.9614	1.00	(0.76,	1.33)
16-20	77	534	62.03	548.97	1.28	3.00	1.66	0.1981	1.28	(0.90,	1.84)
21+	30	301	33.66	297.34	0.88	4.00	0.06	0.8062	0.92	(0.59,	1.44)

	CHISQ	TREND
CHISQ	4.80	0.40
D.F.	3	1
PROB	0.1873	0.5258

TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION
SEX	MINS IV	
MALE	6-15	0.42
	16-20	0.10
	21+	1.82
FEMALE	6-15	0.29
	16-20	0.11
	21+	1.68

	CHISQ	DF	PROB
6-15	0.71	1	0.3999
16-20	0.20	1	0.6514
21+	3.49	1	0.0616

TABLE 12 FOLLOWED UP : MAN CIGS

FACTOR: MANCIG80   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

MANCIG80	OBSERVED		EXPECTED		HOMOG-	TREND	CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
NEVER	77	732	79.97	729.03	0.96	0.00					
EX	75	608	67.52	615.48	1.12	0.00	0.71	0.3983	1.17	(0.84,	1.64)
0-17	35	330	36.08	328.92	0.97	0.00	0.00	0.9451	1.01	(0.66,	1.54)
18-22	35	307	33.81	308.19	1.04	0.00	0.07	0.7905	1.08	(0.71,	1.65)
23+	37	384	41.62	379.38	0.88	0.00	0.10	0.7529	0.92	(0.61,	1.38)

                                         CHISQ   1.69   0.00
                                         D.F.   4   1
                                         PROB   0.7919 1.0000

TABLE 12 FOLLOWED UP : MAN CIGS

FACTOR: MANCIG80   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

MANCIG80	OBSERVED		EXPECTED		HOMOG-	TREND	CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
NEVER	116	988	116.36	987.64	1.00	0.00					
EX	40	376	43.85	372.15	0.90	0.00	0.17	0.6775	0.91	(0.62,	1.32)
0-17	62	543	63.77	541.23	0.97	0.00	0.01	0.9323	0.97	(0.70,	1.35)
18-22	38	285	34.04	288.96	1.13	0.00	0.29	0.5902	1.14	(0.77,	1.68)
23+	25	193	22.98	195.02	1.10	0.00	0.09	0.7644	1.10	(0.70,	1.75)

                                         CHISQ   1.15   0.00
                                         D.F.   4   1
                                         PROB   0.8870 1.0000

TABLE 12 FOLLOWED UP : MAN CIGS

FACTOR: MANCIG80   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

MANCIG80	OBSERVED		EXPECTED		HOMOG-	TREND	CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
NEVER	193	1720	196.34	1716.66	0.98	0.00					
EX	115	984	111.36	987.64	1.04	0.00	0.08	0.7772	1.05	(0.81,	1.34)
0-17	97	873	99.85	870.15	0.97	0.00	0.00	0.9650	0.99	(0.76,	1.28)
18-22	73	592	67.85	597.15	1.09	0.00	0.42	0.5164	1.11	(0.83,	1.48)
23+	62	577	64.60	574.40	0.96	0.00	0.00	0.9713	0.99	(0.73,	1.35)

                                         CHISQ   0.84   0.00
                                         D.F.   4   1
                                         PROB   0.9329 1.0000

TEST OF HOMOGENEITY

DIVIDING   TEST   CHISQ
FACTOR(S)   FACTOR   CONTRIBUTION

SEX   MANCIG80

MALE   EX   0.45
            0-17   0.01
            18-22   0.01
            23+   0.15

FEMALE   EX   0.55
            0-17   0.01
            18-22   0.01
            23+   0.20

                      CHISQ   DF   PROB
            EX   1.00   1   0.3175
            0-17   0.02   1   0.8940
            18-22   0.03   1   0.8732
            23+   0.35   1   0.5540

TABLE 13   FOLLOWED UP : HR CIGS

FACTOR: HR   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

			2*K ANALYSIS						2*2 ANALYSES			
HR	OBSERVED		EXPECTED		HOMOG-	TREND	CHI2	PROB	R		LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)				
NOW	31	251	27.86	254.14	1.13	0.00						
EX	22	161	18.08	164.92	1.25	0.00	0.04	0.8481	1.11	(	0.62,	1.98)
NONE	206	1951	213.07	1943.93	0.96	0.00	0.44	0.5079	0.85	(	0.57,	1.27)

CHISQ   1.60   0.00
D.F.   2   1
PROB   0.4497 1.0000

TABLE 13   FOLLOWED UP : HR CIGS

FACTOR: HR   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

			2*K ANALYSIS						2*2 ANALYSES			
HR	OBSERVED		EXPECTED		HOMOG-	TREND	CHI2	PROB	R		LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)				
NOW	7	23	3.16	26.84	2.58	0.00						
EX	0	16	1.69	14.31	0.00	0.00	2.72	0.0991	INSUFFICIENT DATA			
NONE	274	2347	276.15	2344.85	0.99	0.00	3.92	0.0477	0.38	(	0.17,	0.87)

CHISQ   7.11   0.00
D.F.   2   1
PROB   0.0285 1.0000

TABLE 13   FOLLOWED UP : HR CIGS

FACTOR: HR   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

			2*K ANALYSIS						2*2 ANALYSES			
HR	OBSERVED		EXPECTED		HOMOG-	TREND	CHI2	PROB	R		LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)				
NOW	38	274	31.02	280.98	1.26	0.00						
EX	22	177	19.76	179.24	1.13	0.00	0.05	0.8233	0.90	(	0.52,	1.57)
NONE	480	4298	489.22	4288.78	0.98	0.00	1.94	0.1639	0.76	(	0.53,	1.09)

CHISQ   2.38   0.00
D.F.   2   1
PROB   0.3035 1.0000

TEST OF HOMOGENEITY

DIVIDING   TEST   CHISQ
FACTOR(S) FACTOR   CONTRIBUTION

SEX   HR

MALE   EX   0.48
           NONE   0.33

FEMALE   EX   4.01
           NONE   2.56

	CHISQ	DF	PROB
EX	4.49	1	0.0341
NONE	2.88	1	0.0894

TABLE 14   FOLLOWED UP : PIPE

FACTOR: PIPE   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

PIPE	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-	TREND	CHI2	2*2 ANALYSES PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
NOW	22	213	23.21	211.79	0.94	0.00					
EX	16	140	15.41	140.59	1.04	0.00	0.01	0.9061	1.11	(0.56,	2.18)
NONE	221	2010	220.38	2010.62	1.00	0.00	0.02	0.8799	1.06	(0.67,	1.69)

                              CHISQ   0.10   0.00
                              D.F.   2   1
                              PROB   0.9525 1.0000

TABLE 14   FOLLOWED UP : PIPE

FACTOR: PIPE   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

PIPE	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-	TREND	CHI2	2*2 ANALYSES PROB	R	LIMITS
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)		
NOW	0	0	0.00	0.00	0.00	0.00				
EX	0	0	0.00	0.00	0.00	0.00				
NONE	281	2386	281.00	2386.00	1.00	0.00				

                              CHISQ   INSUFFICIENT DATA

TABLE 14   FOLLOWED UP : PIPE

FACTOR: PIPE   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

PIPE	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-	TREND	CHI2	2*2 ANALYSES PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
NOW	22	213	23.21	211.79	0.94	0.00					
EX	16	140	15.41	140.59	1.04	0.00	0.01	0.9061	1.11	(0.56,	2.18)
NONE	502	4396	501.38	4396.62	1.00	0.00	0.02	0.8799	1.06	(0.67,	1.69)

                              CHISQ   0.10   0.00
                              D.F.   2   1
                              PROB   0.9525 1.0000

TEST OF HOMOGENEITY

DIVIDING   TEST   CHISQ
FACTOR(S)   FACTOR   CONTRIBUTION

SEX   PIPE

MALE   EX   0.00
            NONE   0.00

FEMALE   EX   0.00
            NONE   0.00

                 CHISQ   DF   PROB
            EX   0.00   0   1.0000
            NONE 0.00   0   1.0000

TABLE 15 FOLLOWED UP : CRS

FACTOR: CIGAR DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED) STRATIFIED FOR:NONE
SEX MALE

CIGAR	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
NOW	20	264	28.05	255.95	0.69	0.00					
EX	12	71	8.20	74.80	1.54	0.00	3.55	0.0597	2.23	(1.06,	4.71)
OCC	50	566	60.85	555.15	0.81	0.00	0.18	0.6706	1.17	(0.68,	2.00)
NONE	177	1462	161.90	1477.10	1.10	0.00	3.32	0.0686	1.60	(0.99,	2.57)

CHISQ 8.23 0.00
D.F. 3 1
PROB 0.0416 1.0000

TABLE 15 FOLLOWED UP : CRS

FACTOR: CIGAR DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED) STRATIFIED FOR:NONE
SEX FEMALE

CIGAR	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
NOW	1	5	0.63	5.37	1.70	0.00					
EX	0	3	0.32	2.68	0.00	0.00	0.12	0.7237	INSUFFICIENT DATA		
OCC	9	96	11.06	93.94	0.80	0.00	0.00	0.9528	0.47	(0.05,	4.29)
NONE	271	2282	268.99	2284.01	1.01	0.00	0.03	0.8551	0.59	(0.07,	4.98)

CHISQ 1.04 0.00
D.F. 3 1
PROB 0.7918 1.0000

TABLE 15 FOLLOWED UP : CRS

FACTOR: CIGAR DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED) STRATIFIED FOR:SEX

CIGAR	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG- ENEITY	TREND	2*2 ANALYSES CHI2	PROB (1DF)	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS							
NOW	21	269	28.69	261.31	0.71	0.00					
EX	12	74	8.51	77.49	1.48	0.00	2.89	0.0893	2.05	(0.98,	4.29)
OCC	59	662	71.91	649.09	0.80	0.00	0.09	0.7662	1.12	(0.66,	1.89)
NONE	448	3744	430.89	3761.11	1.04	0.00	2.97	0.0850	1.54	(0.97,	2.46)

CHISQ 7.94 0.00
D.F. 3 1
PROB 0.0472 1.0000

TEST OF HOMOGENEITY

DIVIDING TEST CHISQ
FACTOR(S) FACTOR CONTRIBUTION

SEX	CIGAR	
MALE	EX	0.05
	OCC	0.02
	NONE	0.02
FEMALE	EX	1.08
	OCC	0.61
	NONE	0.82

	CHISQ	DF	PROB
EX	1.12	1	0.2892
OCC	0.63	1	0.4273
NONE	0.84	1	0.3604

TABLE 16   FOLLOWED UP : AGE(9)

FACTOR: AGE5   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

AGE5	OBSERVED		2*K ANALYSIS			2*2 ANALYSES				
			EXPECTED		HOMOG-	TREND	CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
25-29	17	376	38.84	354.16	0.41	1.00					
30-34	30	350	37.55	342.45	0.78	2.00	3.70	0.0543	1.90	(1.04, | 3.47)
35-39	35	384	41.40	377.60	0.83	3.00	4.83	0.0280	2.02	(1.12, | 3.63)
40-44	46	238	28.06	255.94	1.76	4.00	26.10	0.0000	4.27	(2.48, | 7.36)
45-49	37	249	28.26	257.74	1.36	5.00	15.59	0.0001	3.29	(1.86, | 5.81)
50-54	35	224	25.59	233.41	1.42	6.00	16.70	0.0000	3.46	(1.95, | 6.14)
55-59	27	229	25.30	230.70	1.08	7.00	8.52	0.0035	2.61	(1.42, | 4.80)
60-64	27	277	30.04	273.96	0.89	8.00	5.26	0.0218	2.16	(1.17, | 3.98)
65+	5	35	3.95	36.05	1.30	9.00	3.47	0.0625	3.16	(1.15, | 8.65)

```
                              CHISQ   36.72    9.63
                              D.F.     8        1
                              PROB    0.0000   0.0019
```

TABLE 16   FOLLOWED UP : AGE(9)

FACTOR: AGE5   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

AGE5	OBSERVED		2*K ANALYSIS			2*2 ANALYSES				
			EXPECTED		HOMOG-	TREND	CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
25-29	30	330	37.93	322.07	0.77	1.00					
30-34	33	341	39.41	334.59	0.82	2.00	0.01	0.9163	1.06	(0.63, | 1.79)
35-39	56	405	48.57	412.43	1.17	3.00	2.74	0.0979	1.52	(0.96, | 2.42)
40-44	32	281	32.98	280.02	0.97	4.00	0.51	0.4767	1.25	(0.74, | 2.11)
45-49	31	239	28.45	241.55	1.10	5.00	1.40	0.2359	1.43	(0.84, | 2.42)
50-54	25	199	23.60	200.40	1.07	6.00	0.98	0.3217	1.38	(0.79, | 2.41)
55-59	34	226	27.39	232.61	1.28	7.00	3.17	0.0750	1.65	(0.99, | 2.77)
60-64	33	324	37.61	319.39	0.86	8.00	0.09	0.7654	1.12	(0.67, | 1.88)
65+	7	41	5.06	42.94	1.45	9.00	1.32	0.2512	1.88	(0.78, | 4.50)

```
                              CHISQ    7.91    1.44
                              D.F.     8        1
                              PROB    0.4421   0.2304
```

TABLE 16   FOLLOWED UP : AGE(9)

FACTOR: AGE5   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

AGE5	OBSERVED		2*K ANALYSIS			2*2 ANALYSES				
			EXPECTED		HOMOG-	TREND	CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
25-29	47	706	76.77	676.23	0.59	1.00					
30-34	63	691	76.96	677.04	0.80	2.00	2.09	0.1483	1.36	(0.92, | 2.01)
35-39	91	789	89.98	790.02	1.01	3.00	7.59	0.0059	1.70	(1.18, | 2.44)
40-44	78	519	61.04	535.96	1.32	4.00	17.69	0.0000	2.23	(1.55, | 3.21)
45-49	68	488	56.71	499.29	1.23	5.00	13.51	0.0002	2.08	(1.42, | 3.05)
50-54	60	423	49.19	433.81	1.25	6.00	13.53	0.0002	2.14	(1.44, | 3.17)
55-59	61	455	52.69	463.31	1.18	7.00	11.17	0.0008	1.99	(1.35, | 2.95)
60-64	60	601	67.65	593.35	0.88	8.00	3.26	0.0711	1.46	(0.99, | 2.17)
65+	12	76	9.01	78.99	1.38	9.00	4.98	0.0257	2.28	(1.18, | 4.41)

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                              CHISQ   29.60    9.07
                              D.F.     8        1
                              PROB    0.0002   0.0026
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TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION	DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION		CHISQ	DF	PROB
SEX	AGE5		SEX	AGE5					
MALE	30-34	1.14	FEMALE	30-34	0.87	30-34	2.00	1	0.1569
	35-39	0.32		35-39	0.21	35-39	0.53	1	0.4656
	40-44	4.99		40-44	4.76	40-44	9.75	1	0.0018
	45-49	2.27		45-49	1.99	45-49	4.26	1	0.0389
	50-54	2.49		50-54	2.36	50-54	4.84	1	0.0277
	55-59	0.71		55-59	0.49	55-59	1.20	1	0.2735
	60-64	1.48		60-64	1.03	60-64	2.51	1	0.1130
	65+	0.37		65+	0.18	65+	0.56	1	0.4563

TABLE 17   FOLLOWUED UP : SOCIAL CLASS (6)

FACTOR: SOCCL6   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   MALE

SOCCL6	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-	TREND	2*2 ANALYSES CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
A	4	76	7.91	72.09	0.48	1.00					
B	28	338	36.17	329.83	0.76	2.00	0.35	0.5536	1.57	(0.54,	4.59)
C1	40	541	57.41	523.59	0.67	3.00	0.16	0.6932	1.40	(0.49,	4.02)
C2	110	893	99.11	903.89	1.12	4.00	2.20	0.1379	2.34	(0.86,	6.34)
D	71	469	53.36	486.64	1.38	5.00	3.61	0.0574	2.88	(1.06,	7.77)
E	6	45	5.04	45.96	1.22	6.00	1.17	0.2801	2.53	(0.70,	9.17)

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                               CHISQ   18.04   14.87
                               D.F.    5       1
                               PROB    0.0029  0.0001
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TABLE 17   FOLLOWUED UP : SOCIAL CLASS (6)

FACTOR: SOCCL6   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:NONE
SEX   FEMALE

SOCCL6	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-	TREND	2*2 ANALYSES CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
A	11	78	9.38	79.62	1.20	1.00					
B	39	344	40.35	342.65	0.96	2.00	0.17	0.6822	0.80	(0.39,	1.64)
C1	50	611	69.64	591.36	0.69	3.00	1.81	0.1782	0.58	(0.29,	1.15)
C2	109	780	93.67	795.33	1.19	4.00	0.02	0.8868	0.99	(0.51,	1.92)
D	62	453	54.26	460.74	1.16	5.00	0.01	0.9280	0.97	(0.49,	1.93)
E	10	120	13.70	116.30	0.71	6.00	0.84	0.3594	0.59	(0.24,	1.45)

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                               CHISQ   11.71   0.91
                               D.F.    5       1
                               PROB    0.0390  0.3407
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TABLE 17   FOLLOWUED UP : SOCIAL CLASS (6)

FACTOR: SOCCL6   DISEASE: FOLLOWED
SELECTION: (15 REJECTS TREATED AS NON FOLLOWED)   STRATIFIED FOR:SEX

SOCCL6	OBSERVED		2*K ANALYSIS EXPECTED		HOMOG-	TREND	2*2 ANALYSES CHI2	PROB	R	LIMITS	
	CASES	CONTROLS	CASES	CONTROLS	ENEITY			(1DF)			
A	15	154	17.28	151.72	0.86	1.00					
B	67	682	76.52	672.48	0.86	2.00	0.01	0.9211	1.02	(0.56,	1.83)
C1	90	1152	127.06	1114.94	0.69	3.00	0.37	0.5453	0.80	(0.45,	1.42)
C2	219	1673	192.78	1699.22	1.15	4.00	0.94	0.3323	1.36	(0.78,	2.36)
D	133	922	107.62	947.38	1.27	5.00	1.57	0.2101	1.48	(0.85,	2.59)
E	16	165	18.74	162.26	0.84	6.00	0.00	0.9569	0.95	(0.47,	1.93)

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                               CHISQ   24.85   10.82
                               D.F.    5       1
                               PROB    0.0001  0.0010
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TEST OF HOMOGENEITY

DIVIDING FACTOR(S)	TEST FACTOR	CHISQ CONTRIBUTION
SEX	SOCCL6	
MALE	B	0.65
	C1	1.12
	C2	1.10
	D	1.63
	E	2.26
FEMALE	B	0.41
	C1	0.83
	C2	0.88
	D	1.49
	E	1.09

	CHISQ	DF	PROB
B	1.06	1	0.3033
C1	1.95	1	0.1626
C2	1.99	1	0.1585
D	3.12	1	0.0775
E	3.34	1	0.0675

BRAND SMOKED IN 1980 AS REPORTED IN 1980 AND AS RECALLED IN 1985, BRAND SMOKED IN 1985
RESTRICTED TO SUBJECTS STATING A SPECIFIC BRAND NAME IN 1980 AND RECALL, AND EITHER A SPECIFIC NAME OR NON-SMOKER IN 1985.
N.B. INCORRECT RECALL BRANDS ARE MARKED * IF NOT IN 1980 LIST.

NON SMOKER OF MANUFACTURED CIGARETTES IN 1985

CORRECT RECALL

RECALL BRAND=1980

SERIAL	1980 BRAND	
21732	1	WOODBINE PLAIN
10092	6	PARK DRIVE PLAIN
24099	6	PARK DRIVE PLAIN
11377	6	PARK DRIVE PLAIN
10107	6	PARK DRIVE PLAIN
22445	38	PLAYERS NO.6 FILTER
12130	38	PLAYERS NO.6 FILTER
12185	38	PLAYERS NO.6 FILTER
11262	38	PLAYERS NO.6 FILTER
12656	38	PLAYERS NO.6 FILTER
12401	60	EMBASSY FILTER
22605	65	SILK CUT FILTER (RED)
14215	70	EMBASSY NO.1 EXTRA MILD K.S. FILTER
23315	101	BENSON & HEDGES K.S. SPECIAL FILTER
22171	101	BENSON & HEDGES K.S. SPECIAL FILTER
21728	101	BENSON & HEDGES K.S. SPECIAL FILTER
12648	101	BENSON & HEDGES K.S. SPECIAL FILTER
10114	103	ROTHMANS K.S. FILTER
13525	103	ROTHMANS K.S. FILTER
12290	109	SILK CUT K.S. FILTER(PURPLE/MAUVE)
21289	109	SILK CUT K.S. FILTER(PURPLE/MAUVE)
11901	201	ROTHAMNS INTERNATIONAL FILTER
10096	206	DUNHILL K.S. FILTER

SERIAL	1980 BRAND	RECALL BRAND
11894	15 SENIOR SERVICE PLAIN	14 PLAYERS MEDIUM NAVY CUT PLAIN
20490	24 PLAYERS NO.10 EXTRA MILD FILTER	70 EMBASSY NO.1 EXTRA MILD K.S. FILTER
13222	38 PLAYERS NO.6 FILTER	88 JOHN PLAYER K.S. FILTER (BLUE)
23115	41 EMBASSY REGAL FILTER	74 EMBASSY REGAL K.S. FILTER
12389	48 KENSITAS CLUB FILTER	120 KENSITAS CLUB K.S. FILTER
12658	48 KENSITAS CLUB FILTER	220 KENSITAS K.S. FILTER
12429	60 EMBASSY FILTER	41 EMBASSY REGAL FILTER
21985	60 EMBASSY FILTER	70 EMBASSY NO.1 EXTRA MILD K.S. FILTER
11451	65 SILK CUT FILTER (RED)	109 SILK CUT K.S. FILTER(PURPLE/MAUVE)
22380	75 JOHN PLAYER K.S. EX MILD FILTER(RED)	38 PLAYERS NO.6 FILTER
10712	75 JOHN PLAYER K.S. EX MILD FILTER(RED)	85 PLAYERS NO.6 K.S. FILTER
10333	78 LAMBERT & BUTLER K.S. FILTER	60 EMBASSY FILTER
10635	81 JOHN PLAYER SPECIAL FILTER	84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK)
13220	84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK)	81 JOHN PLAYER SPECIAL FILTER
13755	84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK)	85 PLAYERS NO.6 K.S. FILTER
20298	88 JOHN PLAYER K.S. FILTER (BLUE)	81 JOHN PLAYER SPECIAL FILTER
22774	101 BENSON & HEDGES K.S. SPECIAL FILTER	38 PLAYERS NO.6 FILTER
22727	101 BENSON & HEDGES K.S. SPECIAL FILTER	60 EMBASSY FILTER
11538	101 BENSON & HEDGES K.S. SPECIAL FILTER	*95 BENSON & HEDGES LONGER LENGTH
22843	101 BENSON & HEDGES K.S. SPECIAL FILTER	107 DUNHILL INT FILTER
13761	103 ROTHMANS K.S. FILTER	78 LAMBERT & BUTLER K.S. FILTER
10313	106 STATE EXPRESS 555 K.S. FILTER	81 JOHN PLAYER SPECIAL FILTER
21356	109 SILK CUT K.S. FILTER(PURPLE/MAUVE)	*95 BENSON & HEDGES LONGER LENGTH
11416	202 MARLBORO FILTER	60 EMBASSY FILTER
21853	206 DUNHILL K.S. FILTER	101 BENSON & HEDGES K.S. SPECIAL FILTER

CORRECT RECALL

RECALL BRAND=1980

1985 BRAND=1980

SERIAL	1980 BRAND	
20268	1	WOODBINE PLAIN
13627	6	PARK DRIVE PLAIN
10079	6	PARK DRIVE PLAIN
12904	6	PARK DRIVE PLAIN
12163	14	PLAYERS MEDIUM NAVY CUT PLAIN
13411	15	SENIOR SERVICE PLAIN
12461	15	SENIOR SERVICE PLAIN
21074	22	PLAYERS NO.10 FILTER
13879	38	PLAYERS NO.6 FILTER
10710	38	PLAYERS NO.6 FILTER
24007	40	EMBASSY EXTRA MILD FILTER
10117	41	EMBASSY REGAL FILTER
22051	41	EMBASSY REGAL FILTER
21984	41	EMBASSY REGAL FILTER
21339	41	EMBASSY REGAL FILTER
22428	41	EMBASSY REGAL FILTER
13093	49	GOLD LEAF FILTER
14045	60	EMBASSY FILTER
10009	74	EMBASSY REGAL K.S. FILTER
10069	79	EMBASSY NO.1 K.S. FILTER
12147	85	PLAYERS NO.6 K.S. FILTER
20095	101	BENSON & HEDGES K.S. SPECIAL FILTER
22174	101	BENSON & HEDGES K.S. SPECIAL FILTER
20956	101	BENSON & HEDGES K.S. SPECIAL FILTER
13509	101	BENSON & HEDGES K.S. SPECIAL FILTER
10640	101	BENSON & HEDGES K.S. SPECIAL FILTER
10532	101	BENSON & HEDGES K.S. SPECIAL FILTER
24108	101	BENSON & HEDGES K.S. SPECIAL FILTER
10511	101	BENSON & HEDGES K.S. SPECIAL FILTER
12872	101	BENSON & HEDGES K.S. SPECIAL FILTER
23312	101	BENSON & HEDGES K.S. SPECIAL FILTER
23734	107	DUNHILL INT FILTER
20631	109	SILK CUT K.S. FILTER(PURPLE/MAUVE)
23433	109	SILK CUT K.S. FILTER(PURPLE/MAUVE)
20432	120	KENSITAS CLUB K.S. FILTER
11536	120	KENSITAS CLUB K.S. FILTER

12016 201 ROTHMANS INTERNATIONAL FILTER
20488 206 DUNHILL K.S. FILTER
21554 206 DUNHILL K.S. FILTER
10895 220 KENSITAS K.S. FILTER
10537 220 KENSITAS K.S. FILTER

INCORRECT RECALL

SERIAL	1980 BRAND	1985 BRAND=1980 RECALL BRAND
11955	38 PLAYERS NO.6 FILTER	6 PARK DRIVE PLAIN
21625	52 KENSITAS CLUB MILD K.S. FILTER	41 EMBASSY REGAL FILTER
24036	53 DORCHESTER K.S.	85 PLAYERS NO.6 K.S. FILTER
23228	65 SILK CUT FILTER (RED)	101 BENSON & HEDGES K.S. SPECIAL FILTER
22216	70 EMBASSY NO.1 EXTRA MILD K.S. FILTER	40 EMBASSY EXTRA MILD FILTER
22382	74 EMBASSY REGAL K.S. FILTER	60 EMBASSY FILTER
10122	79 EMBASSY NO.1 K.S. FILTER	60 EMBASSY FILTER
23108	101 BENSON & HEDGES K.S. SPECIAL FILTER	41 EMBASSY REGAL FILTER
24548	101 BENSON & HEDGES K.S. SPECIAL FILTER	65 SILK CUT FILTER (RED)
21534	109 SILK CUT K.S. FILTER(PURPLE/MAUVE)	60 EMBASSY FILTER
13616	109 SILK CUT K.S. FILTER(PURPLE/MAUVE)	104 PETER STUYVESANT K.S. FILTER

SMOKER OF MANUFACTURED CIGARETTES 1980 & 1985, BRAND DIFFERS

CORRECT RECALL

RECALL BRAND=1980

SERIAL	1980 BRAND		1985 BRAND	
10522	6	PARK DRIVE PLAIN	82	LAMBERT & BUTLER SP MILD K.S. FILTER
11356	6	PARK DRIVE PLAIN	101	BENSON & HEDGES K.S. SPECIAL FILTER
21867	25	SOVEREIGN FILTER	115	FINE FARE K.S.
13606	37	SILK CUT NO.3 FILTER (BLUE)	50	CRAVEN "A" MILD K.S. FILTER
22233	37	SILK CUT NO.3 FILTER (BLUE)	59	BERKELEY EXTRA MILD K.S. FILTER
23432	38	PLAYERS NO.6 FILTER	84	JOHN PLAYER SPECIAL K.S. FILTER(BLACK)
20628	40	EMBASSY EXTRA MILD FILTER	101	BENSON & HEDGES K.S. SPECIAL FILTER
11470	41	EMBASSY REGAL FILTER	84	JOHN PLAYER SPECIAL K.S. FILTER(BLACK)
13077	58	ROTHMANS K.S. SPECIAL MILD FILTER	104	PETER STUYVESANT K.S. FILTER
12602	60	EMBASSY FILTER	74	EMBASSY REGAL K.S. FILTER
13665	60	EMBASSY FILTER	218	SENIOR SERVICE SUPERKINGS
24126	65	SILK CUT FILTER (RED)	82	LAMBERT & BUTLER SP MILD K.S. FILTER
21640	67	CARLTON LONG SIZE FILTER	65	SILK CUT FILTER (RED)
11978	79	EMBASSY NO.1 K.S. FILTER	84	JOHN PLAYER SPECIAL K.S. FILTER(BLACK)
21307	81	JOHN PLAYER SPECIAL FILTER	71	JOHN PLAYER SUPERKINGS
1118	101	BENSON & HEDGES K.S. SPECIAL FILTER	71	JOHN PLAYER SUPERKINGS
10090	101	BENSON & HEDGES K.S. SPECIAL FILTER	71	JOHN PLAYER SUPERKINGS
21126	101	BENSON & HEDGES K.S. SPECIAL FILTER	206	DUNHILL K.S. FILTER
22008	107	DUNHILL INT FILTER	56	PETER STUYVESANT LUXURY LENGTH FILTER
23689	109	SILK CUT K.S. FILTER(PURPLE/MAUVE)	53	DORCHESTER K.S.
11951	109	SILK CUT K.S. FILTER(PURPLE/MAUVE)	78	LAMBERT & BUTLER K.S. FILTER
11395	200	WINSTON K.S. FILTER	202	MARLBORO FILTER

INCORRECT RECALL, AS 1985 BRAND

1985 BRAND=RECALL

SERIAL	1980 BRAND		RECALL BRAND	
21089	22	PLAYERS NO.10 FILTER	85	PLAYERS NO.6 K.S. FILTER
22850	29	SILK CUT NO.5 FILTER	109	SILK CUT K.S. FILTER(PURPLE/MAUVE)
20760	38	PLAYERS NO.6 FILTER	85	PLAYERS NO.6 K.S. FILTER
20075	48	KENSITAS CLUB FILTER	120	KENSITAS CLUB K.S. FILTER
21977	51	DU MAURIER K.S. FILTER	206	DUNHILL K.S. FILTER
22779	53	DORCHESTER K.S.	103	ROTHMANS K.S. FILTER
21113	65	SILK CUT FILTER (RED)	109	SILK CUT K.S. FILTER(PURPLE/MAUVE)
23778	78	LAMBERT & BUTLER K.S. FILTER	81	JOHN PLAYER SPECIAL FILTER
10931	82	LAMBERT & BUTLER SP MILD K.S. FILTER	78	LAMBERT & BUTLER K.S. FILTER

INCORRECT RECALL, NOT AS 1985 BRAND

SERIAL	1980 BRAND	RECALL BRAND
21327	88 JOHN PLAYER K.S. FILTER (BLUE)	*71 JOHN PLAYER SUPERKINGS
13383	88 JOHN PLAYER K.S. FILTER (BLUE)	74 EMBASSY REGAL K.S. FILTER
21742	88 JOHN PLAYER K.S. FILTER (BLUE)	84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK)
21738	101 BENSON & HEDGES K.S. SPECIAL FILTER	74 EMBASSY REGAL K.S. FILTER
11323	101 BENSON & HEDGES K.S. SPECIAL FILTER	84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK)
22526	101 BENSON & HEDGES K.S. SPECIAL FILTER	109 SILK CUT K.S. FILTER(PURPLE/MAUVE)
21996	101 BENSON & HEDGES K.S. SPECIAL FILTER	109 SILK CUT K.S. FILTER(PURPLE/MAUVE)
21302	104 PETER STUYVESANT K.S. FILTER	*61 DUNHILL LUXURY LENGHT FILTER
22399	109 SILK CUT K.S. FILTER(PURPLE/MAUVE)	70 EMBASSY NO.1 EXTRA MILD K.S. FILTER
20054	200 WINSTON K.S. FILTER	*94 MARLBORO 100S FILTER
21736	221 CRAVEN "A" K.S. FILTER	74 EMBASSY REGAL K.S. FILTER

SERIAL	1980 BRAND	1985 BRAND	RECALL BRAND
13603	15 SENIOR SERVICE PLAIN	72 JOHN PLAYER SUPERKINGS LOW TAR	81 JOHN PLAYER SPECIAL FILTER
21964	23 CARLTON PREMIUM FILTER	102 PETER STUYVESANT EX MILD K.S. FILTER	67 CARLTON LONG SIZE FILTER
23378	29 SILK CUT NO.5 FILTER	101 BENSON & HEDGES K.S. SPECIAL FILTER	36 CADETS FILTER
21293	31 PLAYERS NO.6 EXTRA MILD FILTER	85 PLAYERS NO.6 K.S. FILTER	38 PLAYERS NO.6 FILTER
22540	31 PLAYERS NO.6 EXTRA MILD FILTER	79 EMBASSY NO.1 K.S. FILTER	65 SILK CUT FILTER (RED)
12660	48 KENSITAS CLUB FILTER	120 KENSITAS CLUB K.S. FILTER	1 WOODBINE PLAIN
23988	50 CRAVEN "A" MILD K.S. FILTER	53 DORCHESTER K.S.	41 EMBASSY REGAL FILTER
21110	51 DU MAURIER K.S. FILTER	93 VICTORIA WINE K.S.	206 DUNHILL K.S. FILTER
23372	53 DORCHESTER K.S.	59 BERKELEY EXTRA MILD K.S. FILTER	101 BENSON & HEDGES K.S. SPECIAL FILTER
23987	60 EMBASSY FILTER	86 BERKELEY LUXURY LENGTH FILTER	74 EMBASSY REGAL K.S. FILTER
11355	60 EMBASSY FILTER	101 BENSON & HEDGES K.S. SPECIAL FILTER	79 EMBASSY NO.1 K.S. FILTER
22576	60 EMBASSY FILTER	120 KENSITAS CLUB K.S. FILTER	101 BENSON & HEDGES K.S. SPECIAL FILTER
20266	65 SILK CUT FILTER (RED)	109 SILK CUT K.S. FILTER(PURPLE/MAUVE)	60 EMBASSY FILTER
10435	65 SILK CUT FILTER (RED)	50 CRAVEN "A" MILD K.S. FILTER	109 SILK CUT K.S. FILTER(PURPLE/MAUVE)
20060	70 EMBASSY NO.1 EXTRA MILD K.S. FILTER	79 EMBASSY NO.1 K.S. FILTER	84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK)
22074	74 EMBASSY REGAL K.S. FILTER	87 BELAIR MENTHOL K.S. FILTER	49 GOLD LEAF FILTER
23180	74 EMBASSY REGAL K.S. FILTER	78 LAMBERT & BUTLER K.S. FILTER	60 EMBASSY FILTER
12382	75 JOHN PLAYER K.S. EX MILD FILTER(RED)	109 SILK CUT K.S. FILTER(PURPLE/MAUVE)	40 EMBASSY EXTRA MILD FILTER
20074	75 JOHN PLAYER K.S. EX MILD FILTER(RED)	71 JOHN PLAYER SUPERKINGS	81 JOHN PLAYER SPECIAL FILTER
10192	79 EMBASSY NO.1 K.S. FILTER	70 EMBASSY NO.1 EXTRA MILD K.S. FILTER	40 EMBASSY EXTRA MILD FILTER
14213	79 EMBASSY NO.1 K.S. FILTER	38 PLAYERS NO.6 FILTER	60 EMBASSY FILTER
21076	81 JOHN PLAYER SPECIAL FILTER	206 DUNHILL K.S. FILTER	60 EMBASSY FILTER
20640	82 LAMBERT & BUTLER SP MILD K.S. FILTER	221 CRAVEN "A" K.S. FILTER	74 EMBASSY REGAL K.S. FILTER
20484	83 JOHN PLAYER VANGUARD FILTER	71 JOHN PLAYER SUPERKINGS	41 EMBASSY REGAL FILTER
12191	83 JOHN PLAYER VANGUARD FILTER	71 JOHN PLAYER SUPERKINGS	74 EMBASSY REGAL K.S. FILTER
12908	83 JOHN PLAYER VANGUARD FILTER	70 EMBASSY NO.1 EXTRA MILD K.S. FILTER	84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK)

13183 83 JOHN PLAYER VANGUARD FILTER 101 BENSON & HEDGES K.S. SPECIAL FILTER 53 DORCHESTER K.S.
12729 84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK) 60 EMBASSY FILTER 71 JOHN PLAYER SUPERKINGS
22572 84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK) 79 EMBASSY NO.1 K.S. FILTER 71 JOHN PLAYER SUPERKINGS
13617 84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK) *95 BENSON & HEDGES LONGER LENGTH 72 JOHN PLAYER SUPERKINGS LOW TAR
24129 84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK) 101 BENSON & HEDGES K.S. SPECIAL FILTER 206 DUNHILL K.S. FILTER
23400 84 JOHN PLAYER SPECIAL K.S. FILTER(BLACK) *219 ARDATH K.S. FILTER 50 CRAVEN "A" MILD K.S. FILTER
13080 85 PLAYERS NO.6 K.S. FILTER 38 PLAYERS NO.6 FILTER 101 BENSON & HEDGES K.S. SPECIAL FILTER
12581 85 PLAYERS NO.6 K.S. FILTER 41 EMBASSY REGAL FILTER 72 JOHN PLAYER SUPERKINGS LOW TAR
22213 88 JOHN PLAYER K.S. FILTER (BLUE) 60 EMBASSY FILTER 71 JOHN PLAYER SUPERKINGS
22401 88 JOHN PLAYER K.S. FILTER (BLUE) 65 SILK CUT FILTER (RED) 206 DUNHILL K.S. FILTER
10893 101 BENSON & HEDGES K.S. SPECIAL FILTER 38 PLAYERS NO.6 FILTER 75 JOHN PLAYER K.S. EX MILD FILTER(RED)
13890 101 BENSON & HEDGES K.S. SPECIAL FILTER 74 EMBASSY REGAL K.S. FILTER 86 BERKELEY LUXURY LENGTH FILTER
21305 101 BENSON & HEDGES K.S. SPECIAL FILTER 81 JOHN PLAYER SPECIAL FILTER 71 JOHN PLAYER SUPERKINGS
12282 102 PETER STUYVESANT EX MILD K.S. FILTER 52 KENSITAS CLUB MILD K.S. FILTER 121 STATE EXPRESS 555 EX MILD K.S. FILTER
23769 106 STATE EXPRESS 555 K.S. FILTER 22 PLAYERS NO.10 FILTER 71 JOHN PLAYER SUPERKINGS
13851 107 DUNHILL INT FILTER 60 EMBASSY FILTER 92 RAFFLES 100S
13619 108 PICCADILLY K.S. FILTER 15 SENIOR SERVICE PLAIN 93 VICTORIA WINE K.S.
23968 109 SILK CUT K.S. FILTER(PURPLE/MAUVE) 101 BENSON & HEDGES K.S. SPECIAL FILTER 60 EMBASSY FILTER
24060 121 STATE EXPRESS 555 EX MILD K.S. FILTER 101 BENSON & HEDGES K.S. SPECIAL FILTER 206 DUNHILL K.S. FILTER
21068 206 DUNHILL K.S. FILTER 106 STATE EXPRESS 555 K.S. FILTER 71 JOHN PLAYER SUPERKINGS
14230 207 DUNHILL K.S. SUPERIOR MILD FILTER 79 EMBASSY NO.1 K.S. FILTER 50 CRAVEN "A" MILD K.S. FILTER
24088 220 KENSITAS K.S. FILTER 221 CRAVEN "A" K.S. FILTER 53 DORCHESTER K.S.
20724 221 CRAVEN "A" K.S. FILTER 220 KENSITAS K.S. FILTER 50 CRAVEN "A" MILD K.S. FILTER