

1989-90 National Health Survey Lifestyle and Health



EMBARGOED UNTIL 11.30 A.M. 22 FEBRUARY 1994

NEW ISSUE

1989-90 NATIONAL HEALTH SURVEY LIFESTYLE AND HEALTH AUSTRALIA

IAN CASTLES Australian Statistican

AUSTRALIAN BUREAU OF STATISTICS

CATALOGUE NO. 4366.0

© Commonwealth of Australia 1994

CONTENTS

Table	es e	Page
	Preface	v
	CHAPTER 1: HEALTH STATUS	
	Persons aged 18 years and over: Australia, 1989-90	
1,1	Sex by self assessed health status by age	3
1.2	Sex by number of recent and long-term conditions by age	3
1.3 1.4	Most commonly reported conditions by age by sex Selected type of condition reported by sex by age	4 5
	CHAPTER 2: SMOKING	3
	CHAITER 2. SWICKING	
	Persons aged 18 years and over: Australia, 1989-90	
2.1	Smoker status by selected characteristics	12
2.2	Smoker status by age by sex	13
2.3	Smoker status by self-assessed health status by age by sex	14
2.4	Smoker status by number of recent and long-term conditions by age by sex	16
2.5	Average number of conditions experienced: Smoker status by selected characteristics	17
2.6	Smoker status by selected conditions reported by age and sex	18
2.7	Ex-smokers of packet cigarettes aged 45 years and over: Selected conditions reported by main	
	reason for quitting smoking, Australia, 1989-90	19
2.8	Persons aged 18 years and over: Smoker status by body mass by sex by age, Australia, 1989-90	20
	Persons aged 45 years and over who are current or ex-smokers: Australia, 1989-90	
2.9	Duration of smoking packet eigarettes by number of recent and long-term conditions	21
2.10	Duration of smoking packet cigarettes by selected conditions experienced	22
2.11	Children aged 0 to 14 years: Selected types of recent and long-term conditions experienced by age by number of smokers in household, Australia, 1989-90	23
	CHAPTER 3: ALCOHOL CONSUMPTION	
	Persons aged 18 years and over: Australia, 1989-90	
3,1	Alcohol risk level by selected characteristics	30
3.2	Alcohol risk level by age by sex	31
3.3	Age by whether drank more or less than usual by alcohol risk level by sex	32
3.4	Alcohol risk level by self assessed health status by age by sex	34
3.5	Age by number of recent and long-term conditions by alcohol risk level by sex	36
3.6	Average number of conditions experienced: Alcohol risk level by selected characteristics	38
3.7	Alcohol risk level by selected conditions reported by age and sex	39
3.8	Average number of conditions experienced by age by sex by period since last consumed alcohol	42
3.9	Alcohol risk level by body mass by sex by age	43
3.10	Average number of conditions experienced: Persons aged 45 and over who drank alcohol by number	
5.20	of days on which alcohol consumed by quantity consumed by sex, Australia, 1989-90	45
INOI II	RIES Conforth on information about statistics in this subject to the statistics of t	·
	• for further information about statistics in this publication and the availability of related unpublished statistics contact Brian Richings on Canberra (06) 252 5786 or any ABS St	
	• for further information about other ABS statistics and services please refer to the back p	
	this publication.	

CONTENTS - continued

Table	28	Page
	CHAPTER 4: EXERCISE	
	Persons aged 18 years and over: Australia, 1989-90	
4.1	Exercise level by selected characteristics	50
4.2	Exercise level by age by sex	51
4.3	Exercise level by self-assessed health status by age by sex	52
4.4	Exercise level by number of recent and long-term conditions by age by sex	53
4.5	Average number of conditions experienced: Exercise level by selected characteristics	55
4.6	Exercise level by selected conditions reported by age and sex	56
	Persons aged 18 years and over who reported exercising: Australia, 1989-90	
4.7	Number of times exercised and average duration of exercise session by self assessed health status	58
4.0	by type of exercise	38
4.8	Number of times exercised and average duration of exercise session by number of recent and long term conditions by type of exercise	59
	CHAPTER 5: BODY MASS	
	Persons aged 18 years and over: Australia, 1989-90	
5.1	Body mass by selected characteristics	66
5,2	Body mass by age by sex	67
5.3	Body mass by self-assessed health status by age by sex	68
5.4	Body mass by number of recent and long-term conditions by age by sex	70
5.5	Average number of conditions experienced: Selected characteristics by body mass	72
5.6	Body mass by selected conditions reported by age and sex	73
5.7	Persons aged 18 years and over who changed their diet during the last two years: Reasons for change	
	in diet by age by sex, Australia, 1989-90	76
5.8	Persons aged 18 years and over who made healthy changes to diet by age by sex	77
	APPENDIXES	
	122 9 40412 24220	
Α	Explanatory notes	79
В	Definitions	82
C	Technical notes on sampling variability	85
D	Publications and data services available from the survey	87

PREFACE

This publication contains statistics which describe associations between selected lifestyle characteristics and health status. The statistics are derived from information collected in the 1989-90 National Health Survey conducted by the ABS, and represent a selection of those available from the survey.

The publication is introduced by a chapter which summarises the health status of the adult population through information about self-assessed health status and the numbers and types of illnesses experienced. The following chapters examine how these differ according to people's smoking, alcohol consumption, exercise and body mass characteristics.

Some care should be taken in interpreting the associations between lifestyle factors and health status described in this publication. Data from the survey should not be interpreted as proof of causal relationships; for example, it is not possible from survey results to determine whether the presence of a specific illness is a consequence of a particular behaviour, or whether that behaviour has been adopted as a consequence of the illness. Similarly, very limited information is available from the survey to indicate the presence and/or influence of other medical, hereditary, environmental, etc factors on the onset of illness.

An overview of the definitions and methods used in the survey is provided in Appendixes A and B to this publication. Complete information about the National Health Survey, its objectives, content and the concepts, methods and procedures used in the collection and compilation of data are contained in 1989-90 National Health Survey: User's Guide (Catalogue No. 4363.0).

IAN CASTLES Australian Statistician

Australian Bureau of Statistics Canberra ACT January 1994



HEALTH STATUS

As defined by the World Health Organization, the term "health" encompasses both the absence of illness or infirmity and the positive state of physical, mental and social well-being. Indicators which directly relate to positive well-being are not available from the 1989-90 National Health Survey. The discussion in this publication therefore refers to health status as indicated by the presence or absence of recent and/or long-term conditions, and to people's perception of their overall state of health. The narrowness of these indicators should be borne in mind in interpreting the associations between lifestyle and health status discussed in this publication.

Self-assessed health status

Results of the survey show that most Australian adults (79.2%) considered themselves to be in good or excellent health. Slightly more males (80.1%) than females (78.3%) rated their health as good or excellent. As might be expected, self-assessed health status varied considerably with age, with greater proportions of people in the older age groups rating their health as fair or poor. For example, 43.4 per cent of persons aged 65 years and over reported their health as fair or poor compared with 11.5 per cent of 18 to 24 year olds.

Prevalence of illness

The number of illnesses recorded for survey respondents also varied with age and sex. Overall, the prevalence of illness was higher among women than men, with 86.1 per cent of women reporting one or more recent illness and 79.0 per cent reporting one or more long-term conditions. As shown in Table 1.2 proportions for men were 73.2 per cent and 73.1 per cent respectively.

Results also show that the prevalence of both recent and long-term conditions increased with age. For example, recent illness was reported by 75.3 per cent of 18 to 44 year olds, increasing to 86.0 per cent of those aged 45 years and over. Similarly, 65.0 per cent of the 18 to 44 year age group had a long-term condition compared to 91.7 per cent of persons aged 45 years and over. As the proportion of people in older age groups with any illness increased, so too did the number of conditions they experienced. For example, in the 45 years and over age group, 22.0 per cent reported four or more recent illnesses while 28.6 per cent had that number of long-term conditions. The corresponding proportions among 18 to 44 year olds were 7.6 per cent and 6.2 per cent respectively.

Overall, a greater proportion of women (71.3%) reported at least one recent or long-term illness than men (58.9%) and illness was more prevalent among the 45 years and over age group (81.2%) than those aged 18 to 44 years (53.9%) (Table 1.3).

Types of conditions

Disorders of refraction and accommodation, including far and short sight, were the most commonly reported conditions affecting an estimated 5.1 million Australian adults (or 41.2 per cent of the adult population). Arthritis was the second most prevalent disorder, reported by 18.6 per cent of women and 12.2 per cent of men, with the majority aged 45 years and over. Headache due to unspecified or trivial cause, reported by 14.5 per cent of adults was the third most common illness condition. As shown in Table 1.3 this condition was more prevalent among women (17.3%) than men (11.5%) and more common in the 18 to 44 year age group (16.4%) than among those aged 45 years and over (11.6%).

A number of conditions have been specifically linked with lifestyle factors such as smoking, drinking, poor diet and lack of exercise (see Table 1.4). Survey results indicate that, of these disorders, hypertension is the most prevalent in the adult Australian population, reported by 12.3 per cent of adults. Hypertension was most prevalent among women aged 45 years and over (29.6%).

Neoplasms (cancers of all types) were reported by 3.0 per cent of all adults with identical proportions for males and females. The prevalence of neoplasms increased with age from 1.1 per cent of 18 to 44 year olds to 5.7 per cent of the 45 years and over age group. The prevalence of heart disease also varied with age and sex, being more prevalent among older males (8.9% of males aged 45 years and over). Obesity, often an indication of poor diet and exercise patterns, was consistent between the sexes and across all age groups.

The following chapters discuss health status, as indicated by self-assessed health status and the number and types of conditions experienced, in terms of lifestyle characteristics.

TABLE 1.1 PERSONS AGED 18 AND OVER : SEX BY SELF ASSESSED HEALTH STATUS BY AGE AUSTRALIA, 1989-90 (Per cent)

Self assessed health					
status	18 - 24	25 - 44	<u> 45 - 64</u>	65 and over	Total
		Males			
Excellent	37.5	35.9	23.2	13.2	29.8
Good	51.9	52.4	49.4	43.0	50.3
Fair	9.7	10.2	20.4	30.3	15.5
Poor	0.9	1.5	7.0	13.5	4.5
Total	100.0	100.0	100.0	100.0	100.0
		Females			
Excellent	30.9	36.3	24.4	14.2	28.6
Good	56.7	51.0	48.3	42.7	49.7
Fair	11.0	10.8	21.0	31.6	17.0
Poor	1.4	1.9	6.3	11.5	4.6
Total	100.0	100.0	100.0	100.0	100.0
		Persons			
Excellent	34.2	36.1	23.8	13.8	29.2
Good	54.2	51.7	48.9	42.8	50.0
Fair	10.4	10.5	20.7	31.0	16.3
Poor	1.1	1.7 -	6.7	12.4	4.5
Total	100.0	100.0	100.0	100.0	100.0

TABLE 1.2. PERSONS AGED 18 AND OVER : SEX BY NUMBER OF RECENT AND LONG-TERM CONDITIONS BY AGE AUSTRALIA, 1989-90 (Per cent)

-			Age group (years)					
		18 - 44		4	5 and over				
Number of recent and long-term conditions	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Number of recent									
illnesses—									
None	32.1	17.0	24.7	18.7	9.6	14.0	26.8	13.9	20.2
One	34.6	31.5	33.1	27.3	21.8	24.4	31.7	27.3	29.5
Two or three	28.7	40.7	34.6	37.4	41.6	39.6	32.2	41.1	36.7
Four or more	4.5	10.8	7.6	16.5	27.0	22.0	9.3	17.7	13.6
Number of long-term conditions—									
None	38.3	31.6	35.0	9,8	6.9	8.3	26.9	21.0	23.9
One	32.9	31,1	32.0	23.3	18.3	20.7	29.1	25.6	27.3
Two or three	24.5	29.2	26.8	40.8	43.9	42.4	31.0	35.5	33.3
Four or more	4.3	8.1	6.2	26.1	30.9	28.6	13.0	17.8	15.5
Total	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 1.3. PERSONS AGED 18 AND OVER: MOST COMMONLY REPORTED CONDITIONS(a) BY AGE BY SEX AUSTRALIA, 1989-90

		(*000)			Per cent	
	Age group ()	gears)		Age group (years)	
Type of condition reported	18 - 44	45 and over	Total	18 - 44	45 and over	Total
		Male	S			
No illness	1,943.5	583.4	2,526.9	52.7	23.7	41.1
Disorders of refraction			2.412.0	10.0	157	37.6
and accommodation	697.6	1,615.4	2,312.9	18.9	65.7	12.2
Arthritis	170.5	579.4	749.9	4.6	23.6	12.2
Headache — due to unspecified	404.4	2017	705 7	12.1	9.1	11.5
or trivial cause	481.1	224.6	705.7	13.1	22.3	10.5
Hypertension	99.4	547.3	646.7	2.7		10.3
Back trouble (unspecified)	476.5	336. 0	812.5	12.9	13.7	
Hayfever	445.0	208.3	653.3	12.1	8.5	10.6
Common cold	323.5	162.4	485.9	8.8	6.6	7.9
Injuries	373.4	152.3	525.7	10.1	6.2	8.6
Asthma	239.6	130.1	369.7	6.5	5.3	6.0
Eczema, dermatitis	199.5	126.9	326.3	5.4	5.2	5.3
Total	3,686.2	2,458.4	6,144.7	100.0	100.0	100.0
		Fema	les			
No illness	1,424.2	384.2 -	1,808.4	39.4	14.3	28.7
Disorders of refraction				25.5	20.2	
and accommodation	944.9	1,869.7	2,814.6	26.2	69.6	44.7
Arthritis	189.0	984.8	1,173.8	5.2	36.6	18.6
Headache — due to unspecified						
or trivial cause	718.8	374.2	1,092.9	19.9	13.9	17.3
Hypertension	92.6	795.8	888.4	2.6	29.6	14.1
Back trouble (unspecified)	409.2	283.8	693.0	11.3	10.6	11.0
Hayfever	539.7	273.4	813.1	14.9	10.2	12.9
Common cold	304.9	154.1	459.1	8.4	5.7	7.3
Injuries	233.0	168.9	401.9	6.5	6.3	6.4
Ashma	284.6	168.9	453.5	7.9	6.3	7.2
Eczema, dermatitis	336.8	145.0	481.8	9.3	5.4	7.6
Total	3,612.2	2,687.3	6,299.5	100.0	100.0	100.0
		Perso	ons			
No illness	3,367.7	967.6	4,335.4	46.1	18.8	34.8
Disorders of refraction						
and accommodation	1,642.5	3,485.0	5,127.5	22.5	67.7	41.2
Arthritis	359.5	1,564.2	1,923.6	4.9	30.4	15.5
Headache due to unspecified						
or trivial cause	1,199.9	598.8	1,798.6	16.4	11.6	14.5
Hypertension	192.0	1,343.1	1,535.1	2.6	26.1	12.3
Back trouble (unspecified)	885.7	619.9	1,505.5	12.1	12.0	12.1
Hayfever	984.7	481.7	1,466.5	13.5	9.4	11.8
Common cold	628.4	316.6	945.0	8.6	6.2	7.6
Injuries	606.4	321.3	927.6	8.3	6.2	7.5
Aşthma	524.3	298.9	823.2	7.2	5.8	6.6
Eczema, dermatitis	536.3	271.9	808.1	7.3	5.3	6.5
	7,298.4	5,145.8	12,444.2	100.0	100,0	100.6

⁽a) The ten most commonly reported recent and/or long-term conditions. (b) Persons may have reported more than one type of condition and therefore components do not add to totals.

TABLE 1.4. PERSONS AGED 18 AND OVER : SELECTED TYPE OF CONDITION REPORTED(a) BY SEX BY AGE AUSTRALIA, 1989-90 (Per cent)

_			Age group (years)					
_		18 - 44		4	5 and over				
Type of condition reported	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
No illness	52.7	39.4	46.1	23.7	14.3	18.8	41.1	28.7	34.8
Neoplasms	0.8	1.4	1.1	6.3	5.2	5.7	3.0	3.0	3.0
Gout	1.1	* 0.1	0.6	6.1	1.3	3.6	3.1	0.7	1.9
Diabetes mellitus	0.4	0.5	0.5	4.2	3.5	3.8	1.9	1.8	1.9
Obesity	* 0.1	0.6	0.3	0.3	0.6	0.4	0.2	0.6	0.4
High cholesterol	1.8	1.0	1.4	5.2	7.4	6.4	3.2	3.8	3.5
Nerves, tension, nervousness,								2.0	3.3
emotional problems	1.6	3.0	2.3	4.0	7.9	6.0	2,6	5.1	3.8
Depression	0.3	0.8	0.6	1.0	1.6	1.3	0.6	1.1	0.9
Hypertension	2.7	2.6	2.6	22.3	29.6	26.1	10.5	14.1	12.3
Heart disease	0.4	0.4	0.4	8.9	7.1	8.0	3.8	3.3	3.5
Bronchitis, emphysema	2.2	3.2	2.7	6.2	5.2	5,6	3.8	4.0	3.9
Asthma	6.5	7.9	7.2	5.3	6.3	5,8	6.0	7.2	6.6
Ulcer	1.7	1.0	1.3	5.1	3.7	4.4	3.0	2.1	2.6
Other diseases of the									2.0
digestive system	3.5	4.2	3.9	7.7	9.5	8.6	5.2	6.5	5.8
Kidney diseases	0.6	1.2	0.9.	- 2.2	2.0	2.1	1.3	1.5	1.4
Arthritis	4.6	5.2	4.9	23.6	36.6	30.4	12.2	18.6	15.5
Disorders of the						2 37 .		10.0	10.5
intervertebral disc	3.2	2.3	2.8	6.3	4.2	5.2	4.5	3.1	3.8
Backtrouble				~- 2	·		1,2	J. 1	5.0
(unspecified)	12.9	11.3	12.1	13.7	10.6	12.0	13.2	11.0	12.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

⁽a) The recent and/or long-term conditions in this group have been associated with lifestyle factors. This group of conditions is used throughout the following chapters in this publication.

SMOKING

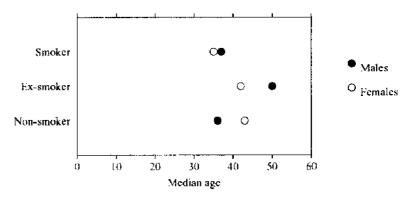
CHARACTERISTICS OF SMOKERS

Results of the survey showed that in 1989-90, 28.4 per cent of adult Australians were smokers, 23.2 per cent were ex-smokers and 48.4 per cent had never smoked.

These proportions differed by population group, as shown in Table 2.1. A higher proportion of males were smokers (32.1%) than females (24.7%), and smoking was more common among the younger age groups. For example, approximately 36 per cent of both males and females aged 18 to 24 years were smokers compared with 21.4 per cent of persons aged 45 years or more. Among people aged 45 years and over, 30.4 per cent were ex-smokers.

For both male and female smokers the majority were in younger age groups. Two thirds (67.7%) of male and 70.4 per cent of female smokers were aged 18 to 44 years. This pattern differed for ex-smokers and persons who never smoked. For example, whereas the majority of male ex-smokers were aged 45 years and over (59.7%) most female ex-smokers were in younger age groups (54.7%)(see Table 2.2). The median age of smokers and ex-smokers was lower for females than males (Chart 2.1).

CHART 2.1 SMOKER STATUS BY MEDIAN AGE BY SEX AUSTRALIA, 1989-90



Smoker status differed by birthplace, with lower than average proportions of smokers and ex-smokers among Asian, African and American born people, but higher proportions among those born in New Zealand and other Oceania and in the Middle East.

Smoking was more common among unemployed persons (43.5%) than the employed (31.2%) and those not in the labour force (27.5%). Although the different age structures of these population groups contributed to the magnitude of these differences, the smoker status pattern was the same for all age groups.

Highest post-school qualifications and smoking were found to be inversely related. Proportionally fewer people with a bachelor degree or higher were smokers (16.4%) than those with trade or apprenticeship qualifications (33.4%) or no post school qualifications (30.2%). The proportion of smokers was highest in low to middle income groups (33.4% of those with an income of \$10,000 to \$30,000 per year) and lowest among those on high incomes (22.6% of those with an annual income of \$50,000 or more).

Self-assessed health status

Overall the majority of Australians (79.2%) believed they are in good or excellent health and similar proportions were recorded for both males and females, but differed according to smoker status (see Table 2.3). A higher proportion of people (81.9%) who had never smoked believed they are in good or excellent health than smokers (76.6%). The pattern was the same for both males and females.

This pattern was exhibited across all age groups, with more of the never smoked group assessing their health as good or excellent than both smokers and ex-smokers. Conversely more smokers and ex-smokers for both sexes and in every age group reported having poor or fair health than those who had never smoked (Table 2.3).

Number of conditions reported

Table 2.4 shows that the highest percentage of persons with illnesses was recorded for ex-smokers. In total, 82.9 per cent of ex-smokers reported one or more long-term conditions. Among female ex-smokers aged 45 or more, 81.5 per cent recorded having two or more long-term conditions, the highest occurrence of illnesses for any smoker status group. This pattern also varied with age, with the over 44 year age group having a higher percentage of one or more long-term illnesses (91.8 per cent of the never smoked and 89.0 per cent of smokers) than the 18 to 44 age group (63.2 per cent of the never smoked and 64.7 per cent of smokers).

For all characteristics examined (age, sex, country of birth, highest post-school qualifications and personal income) ex-smokers displayed a higher average number of recent and long-term conditions combined (3.9) than both smokers (3.3) and the never smoked group (3.4)(Table 2.5). For both males and females the smoker and never smoked groups had similar average number of conditions, with females having a greater average number of conditions (3.7 for smokers and 3.8 for those who never smoked) than males (2.9 for both smokers and those who have never smoked).

Ex-smokers aged 65 years and over had the highest average number of conditions (5.2) of all age groups. Overall the younger age groups reported a lower average number of conditions for all smoker status groups than the older groups. Of the younger age groups, smokers had a higher average number of conditions (2.8 for the 18 to 24 age group and 3.0 for those aged 25 to 44 years) than those that have never smoked (2.6 for 18 to 24 years and 2.9 for 25 to 44 years). However, among those aged 45 years and over, those who had never smoked had a slightly higher prevalence of conditions than the smokers (Table 2.5). Further, a higher proportion of smokers 45 years and over reported no illness (24.9%) than ex-smokers (15.9%) and those who never smoked (17.9%). This pattern is similar for males and females (Table 2.6).

Types of conditions reported

There were some differences in the prevalence of certain medical conditions according to smoker status, and as might be expected these differences were most evident in the older age groups.

Chart 2.2 shows that the prevalence of bronchitis and emphysema, which have historically been linked with smoking, is higher among smokers aged 45 years and over (7.8%) than among those who have never smoked (3.4%), but similar for ex-smokers (7.6%). Males in all age and smoker status groups, except for ex-smokers 45 years and over, reported a lower prevalence of bronchitis than females. Overall, a higher prevalence of this condition was reported among smokers (5.3%) and ex-smokers (5.1%) than persons who had never smoked (2.5%) (Table 2.6).

Chart 2.2 also shows differences in the prevalence of heart disease between smoker status groups. For persons aged 45 years and over, the proportion of ex-smokers who reported heart disease (11.4%) was almost double that for smokers (6.0%) and those who have never smoked (6.7%) (see also Table 2.6). This pattern was the same for both males and females, but the prevalence of heart disease was lower among females (9.4%) than males (12.3%) in the ex-smoker group aged 45 years and over.

Per cent
30

25

20

Smoker

Ex-smoker

Never smoked

Fronchitis, emphysema Heart disease Hypertension
Heart disease

CHART 2.2, PERSONS AGED 45 YEARS AND OVER: SMOKER STATUS BY SELECTED CONDITIONS(a), AUSTRALIA, 1989-90

(a) Reported as recent and/or long-term conditions

The high proportion of ex-smokers who reported heart disease may be due to smokers developing the disease and then giving up smoking as a result. Table 2.7 shows that the main reason for quitting smoking most often reported by ex-smokers of cigarettes over the age of 44 was that it is harmful to their health. Further, the number of ex-smokers of cigarettes with heart disease who reported health reasons as the main reason for quitting smoking (94,900 persons) was over four times the number who reported any other reason for quitting (for example, 20,800 reported they quit smoking because they lost interest).

However, not all related conditions were positively correlated with smoking. For example, lower proportions of smokers aged 45 years or more of both sexes reported obesity and high cholesterol as recent and long-term conditions than ex-smokers or those who never smoked (Tables 2.6 and 2.10).

Proportionally fewer smokers aged 45 years and over reported hypertension (18.3%) than those who have never smoked (29.0%) and ex-smokers (27.0%) (Chart 2.2). This is true of both males and females, although the prevalence of hypertension was higher among females than males in all smoker status groups. This finding may be associated with body mass. Some 38.9 per cent of smokers aged 45 years and over were classified overweight or obese based on self-reported height and weight, compared with 49.5 per cent of ex-smokers and 44.1 per cent of those who had never smoked (Table 2.8).

Duration of smoking

Results of the survey indicated that the prevalence of recent and long-term conditions is also associated with the length of time a person has smoked.

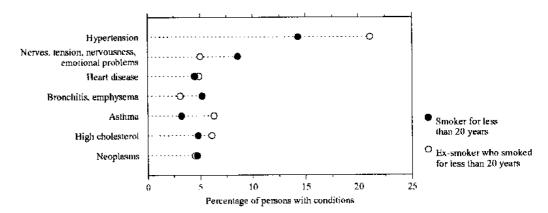
For persons aged 45 and over, the proportion of ex-smokers with illness was higher than for current smokers. Some 94.3 per cent of ex-smokers in this age group who smoked for more than 20 years reported one or more long-term illnesses, while 89.2 per cent of current smokers of the same duration reported long-term illnesses. More smokers and ex-smokers reported having two or more illnesses (recent or long-term) than persons who had never smoked. Unexpectedly a higher percentage of ex-smokers, who had smoked for less than 10 years, than current smokers had one or more recent illnesses (85.8% compared with 78.2%) (Table 2.9).

The prevalence of bronchitis and emphysema among those aged 45 years and over increases markedly as duration of smoking increases. Of current smokers in this age group who have smoked for less than 20 years 5.2 per cent reported bronchitis and emphysema, compared with 7.9 per cent among those who have smoked for 20 years or more and 3.4 per cent for those who have never smoked (Table 2.6). Among ex-smokers who smoked for 20 years or more, the prevalence of bronchitis and emphysema was greater still (9.6%) (Table 2.10).

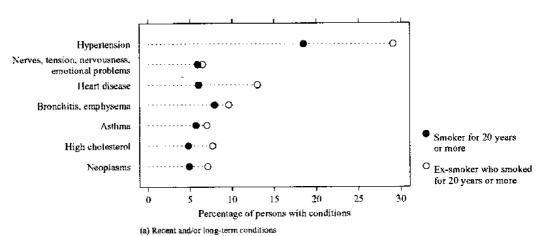
As shown in Chart 2.3, there were also differences between current smokers and ex-smokers in the prevalence of other conditions. Those persons aged 45 years and over who stopped smoking, and who had smoked for 20 years or more, had a higher prevalence of hypertension, heart disease, asthma, high cholesterol and neoplasms than those who were still smoking and had done so for 20 years or more. Smokers who had smoked for less than 20 years had the lowest prevalence of the conditions examined when compared with long-term smokers (who had smoked for 20 years or more) and ex-smokers, except for nerves, tension, nervousness, emotional problems, bronchitis, emphysema and neoplasms. Similar results are found when smokers and non-smokers are compared. That is, smokers aged 45 years and over have a lower prevalence of neoplasms, high cholesterol, hypertension, and heart disease than both ex-smokers and those who had never smoked in the same age group. (Table 2.6).

CHART 2.3 SMOKERS AND EX-SMOKERS AGED 45 YEARS AND OVER: DURATION OF SMOKING BY SELECTED CONDITIONS EXPERIENCED(a), AUSTRALIA, 1989-90

Smokers and ex-smokers who smoked for less than 20 years



Smokers and ex-smokers who smoked for 20 years or more



Passive smoking

As well as the effects of smoking for the smoker him/herself, attention has been drawn by researchers to the possible effects of smoking on the health of non-smokers through passive smoking. A particular aspect identified is the effects of passive smoking on the health of infants and children.

The 1989-90 National Health Survey did not directly address the issue of passive smoking and its possible effects on health. However, data from the survey are available describing the health of children in households in which there are one or more adult smokers (Table 2.11). Survey results show only slight differences between children living in households with or without smokers in the likelihood of children experiencing recent and/or long-term conditions. In households with smokers there was a slightly higher prevalence of disorders of refraction and accommodation, influenza, bronchius, emphysema and asthma among children.

SUMMARY

Of Australians aged 18 years and over, just over half were, or had been smokers. The majority of Australians believed themselves to be in good or excellent health regardless of smoker status, but a higher proportion of those who had never smoked rated their health as good or excellent than did smokers.

The data on reported conditions both supports and contradicts this view. While smokers experienced higher rates of bronchitis and emphysema, they also had the lowest rates of hypertension compared with ex-smokers and the never smoked group, and proportionally fewer smokers reported experiencing any illness conditions. Although age is a factor in this finding, the pattern was similar across age groups. In contrast ex-smokers had the highest rate of heart disease of all three smoker status groups.

An important factor when comparing reported conditions across smoker status groups was the duration of smoking. Smokers and ex-smokers who had smoked for 20 years or more faired far worse in terms of bronchitis and emphysema, as did smokers for heart disease, than those who had never smoked.

TABLE 2.1. PERSONS AGED 18 YEARS AND OVER: SMOKER STATUS BY SELECTED CHARACTERISTICS AUSTRALIA, 1989-90

_		('000)			Per ce	ní	
			Never				Never	700
	Smoker	Ex-smoker	smoked	Total	Smoker	Ex-smoker	smoked	Tota
lex —	1,972.3	1,769.2	2,403.2	6,144.7	32.1	28.8	39.1	100.
Males		1,122.0	3,619.0	6,299.5	24.7	17.8	57.4	100.
Females	1,558.5	1,122.0	3,013.0	0,299.3	27.7	17.0	37.14	100.
Age group (years) —							F0.5	
18 — 24	696.9	200.6	1,039.8	1,937.3	36.0	10.4	53.7	100.
25 44	1,734.3	1,126.3	2,500.5	5,361.1	32.3	21.0	46.6	100.
15 — 64	844.6	914.0	1,490.1	3,248.7	26.0	28.1	45.9	100.
55 and over	254.9	650.3	991.9	1,897.1	13.4	34.3	52.3	100.
Country of birth —								
Australia	2,587.2	2,026.1	4,426.4	9,039.7	28.6	22.4	49.0	100.
New Zealand and other								
Oceania	98.3	70.5	108.1	276.9	35.5	25.5	39.1	100.
United Kingdom and Ireland	344.0	371.3	453.3	1,168.6	29.4	31.8	38.8	100.
Southern Europe	186.8	148.1	373.6	708.5	26.4	20.9	52.7	100.
Western Europe	72.9	82.5	96.9	252.3	28.9	32.7	38.4	100.
Other Europe and U.S.S.R.	55.3	56.6	79.3	191.3	28.9	29.6	41.5	100.
Middle East	53.5	28.0	69.1	150.6	35.5	18.6	45.9	100.
Southeast Asia	49.6	27.5	184.8	261.9	19.0	10.5	70.5	100.
Northeast/ Southern Asia	39.5	35.3	143.3	218.1	18.1	16.2	65.7	100.
Nonhem, South and Central								
America and the Caribbean	27.0	27.7	48.8	103.5	26.1	26.8	47.1	100.
Africa (incl. North Africa)	16.4	17.6	38.7	72.8	22.6	24.2	53.2	100.
Total overseas born	943.5	865.1	1,595.9	3,404.5	27.7	25.4	46.9	100.
Highest post school								
qualifications —								
Still at school or never went to								
school	13.7	9.1	65.7	88.5	15.5	10.3	74.2	100
	181.0	253.0	667.5	1,101.5	16.4	23.0	60.6	100
Bachelor degree or higher	603.4	536.4	665.1	1,804.9	33.4	29.7	36.8	100.
Trade/Apprenticeship	640.9	601.3	1,290.7	2,532.9	25.3	23.7	51.0	100
Certificate/Diploma		28.6	52.4	120.8	32.9	23.7	43.4	100.
Other No post-school qualification	39.8 2,052.0	1,462.8	3,280.8	6,795.6	30.2	21.5	48.3	100
No post-school quantification	2,002.0	1,102.0	2,200	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5 5 i =	-710		
Labour force								
siaius(a) —	0640	750.2	001.0	1 907 1	10.4	24.7	52.3	100
Not applicable(b)	254.9	650.3	991.9	1,897.1	13.4	34.3		100.
Employed	2,379.3	1,653.7	3,582.3	7,615.3	31.2	21.7	47.0	TOO.
Unemployed (looking for							00.5	100
work) Not in labour force	246.7 649.9	97.4 489.8	222.7 1,225.4	566.8 2,365.1	43.5 27.5	17.2 20.7	39.3 51.8	100 100
NOT IN IZEOUT TOICE	012.7	10,7.0	1,220	2,00011				
Gross personal annual								
income(c) — Not continuelle(d)	1007	111.0	426.2	717.8	25.2	15.5	59.4	100
Not applicable(d)	180.7		1,971.1	3,819.2	24.0	24.4	51.6	100
\$0 — 9,999	915.1	933.0 553.2		•	33.4	20.4	46.2	100.
\$10,000 — 19,999	909.2	553.2	1,255.8	2,718.1				100
\$20,000 — 29,999	818.7	546.5	1,089.7	2,454.9 1,206.4	33.3	22.3	44.4 46.7	
\$30,000 — 39,999	360.9	329.8	605.7	1,296.4	27.8	25.4	46.7	100
\$40,000 49,999	128.2	144.4	220.2	492.8	26.0	29.3	44.7	100
\$50,000 or more	218.0	273.3	453.6	944.9	23.1	28.9	48.0	100
Total	3,530.7	2,891.2	6,022.2	12,444.2	28.4	23.2	48.4	100

⁽a) Persons 18 to 64 years only. (b) Persons aged 65 years and over. (c) Persons 18 years and over who reported a source of income. (d) Persons 18 years and over still at school and persons who did not report a source of income.

TABLE 2.2. PERSONS AGED 18 YEARS AND OVER: SMOKER STATUS BY AGE BY SEX AUSTRALIA, 1989-90

			('000)					Per cent		
		Age group	(years)		_		Age group	(years)		
Smoker status	18 - 24	25 - 44	45 - 64	65 and over	Total	18 - 24	25 - 44	45 - 64 6	5 and over	Total
				Male	es					
Smoker Ex-smoker Never smoked	353.4 88.4 541.9	981.3 624.3 1,096.9	500.9 618.6 531.8	136.7 437.8 232.6	1,972.3 1,769.2 2,403.2	35.9 9.0 55.1	36.3 23.1 40.6	30.3 37.5 32.2	16.9 54.2 28.8	32.1 28.8 39.1
Total	983.7	2,702.5	1,651.3	807.1	6,144.7	100.0	100.0	100.0	100.0	100.0
				Pema	les					
Smoker Ex-smoker Never smoked	343.5 112.2 497.9	753.0 501.9 1,403.7	343.7 295.4 958.2	118.2 212.5 759.3	1,558.5 1,122.0 3,619.0	36.0 11.8 52.2	28.3 18.9 52.8	21.5 18.5 60.0	10.8 19.5 69.7	24.7 17.8 57.4
Total	953.6	2,658.6	1,597.4	1,089.9	6,299.5	100.0	100.0	100.0	100.0	100.0
				Perso	ns					
Smoker Ex-smoker Never smoked	696.9 200.6 1,039.8	1,734.3 1,126.3 2,500.5	844.6 914.0 1,490.1	254.9 650.3 991.9	3,530.7 2,891.2 6,022.2	36.0 10.4 53.7	32.3 21.0 46.6	26.0 28.1 45.9	13.4 34.3 52.3	28.4 23.2 48.4
Total	1,937_3	5,361.1	3,248.7	- 1,897.1	12,444.2	100,0	100.0	100,0	100.0	100.0

TABLE 2.3, PERSONS AGED 18 YEARS AND OVER: SMOKER STATU'S BY SELF ASSESSED HEALTH STATUS BY AGE BY SEX AUSTRALIA, 1989-90 ('000)

				•								
: :	-	Smoker	1	I	Ex-smoker		Ne	Never smoked			Total	
Self assessed health status	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
					18 - 2	24 years					:	
Excellent	6.07	68.7	148.6	38.1	41.1	79.2	251.0	184.6	435.6	369.0	294.4	663.4
(Poor	306.6	206.7	413.3	46.7	7.03	106.0	5 250	2733	530.7	510.3	540.7	1.051.0
Fig. 1	61.8	613	1.22	70F*	36	137	30.4	1 77	65.2	8 6 6	105.2	201.0
Door	0 - 1 v	010	11.021	۲ ۲	* 1.1	i -	* 25.	5 - 4 	, ox	oc S	13.4	22.0
, oo	;	Cin.	/117		ţ	0	:)	;		:
Total	353.4	343.5	6'969	88.4	112.2	200.6	541.9	497.9	1,039.8	983.7	953.6	1,937.3
					25 — 4	44 years						
Excellent	266.1	1963	462.4	229.1	205.2	434.4	475.7	563.9	1,039.5	970.9	965.4	1,936.3
Good	456.4	425.8	082.2	331.9	243.3	575.1	527.1	686.5	1,213.6	1,415.3	1,355.6	2,770.9
Eair	137.5	1100	247.5	55.5	5 44 3	800	83.1	131.6	214.7	276.1	285.9	562.0
Poor	21.4	21.0	42.3	7.9	9.1	17.0	11.0	21.7	32.6	40.2	51.7	91.9
Total	5.186	0.537	1.734.3	624.3	6708	1.126.3	6'960'1	1.403.7	2,500.5	2,702.5	2,658.6	5,361.1
-					45 — 6	64 vears						
						f.						
Excellent	1.68	66.4	156.1	142.2	9.62	221.8	150.7	243.4	394.2	382.7	389.5	772.2
Good	234.3	168.3	402.6	306.3	145.5	451.9	275.4	457.3	732.7	816.0	771.2	1,587.1
Pair	129.4	86.5	215.9	125.5	49.7	175.2	81.8	199.2	280.9	336.6	335.3	672.0
Poor	47.5	22.6	70.1	44.6	20.6	65.2	23.9	58.3	82.2	116.0	101.4	217.5
Total	500.9	343.7	844.6	618.6	295.4	914.0	531.8	958.2	1,490.1	1,651.3	1.597.4	3,248.7
					65 years a	and over						
Freellen	15.2	17.5	42.7	49.0	29.7	78.7	42.6	107.4	150.0	106.8	154.7	261.5
God	56.5	50.1	106.6	184.2	81.3	265.5	106.4	333.8	440.2	347.2	465.1	812.2
1-air	44.3	38.2	82.5	139.7	64,4	204.1	60.3	241.8	302.1	244.2	344.5	588.7
Poor	20.6	12.4	33.1	65.0	37.1	102.0	23.3	76.2	5.66	6'801	125.7	234.6
Total	136.7	118.2	254.9	437.8	212.5	650.3	232.6	759.3	6766	1.708	1,089.9	1,897.1
					Total	la l						
Excellent	450.9	348.9	8.667	458.5	355.6	814.1	920.0	1,099.4	2,019.4	1,829.3	1,803.9	3,633.3
Good	1,053.8	850.9	1,904.6	9.898	530.7	1,399.4	1,166.3	1,750.9	2,917.2	3,088.7	3,132.5	6,221.2
Fair Poor	373.0 94.6	295.9 62.8	668.9 157.4	324.2 117.9	167.6 68.1	491.8 186.0	255.6 61.3	60).4 161.3	863.0 222.6	952.8 273.8	292.2	2,023.7 566.0
Total	1,972.3	1,558.5	3,530.7	1,769.2	1,122.0	2,891.2	2,403.2	3,619.0	6,022.2	6,144.7	6,299.5	12,444.2

TABLE 23. PERSONS AGED 18 YEARS AND OVER; SMOKER STATUS BY SELF ASSESSED HEALTH STATUS BY AGE BY SEX AUSTRALIA, 1989-90 (Per cent)

		Smoker		1	Ex-smoker		Ne	Never smoked			Total	
seij assessea nealin status	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
	;				18 - 2	24 years						
Excellent	22.6	20.0	21.3	43.2	36.6	39.5	46.3	37.1	41.0	275	30.0	24.2
Good	58.5	60.2	59.3	52.3	54.1	53.3	47.5	0.05		919	, r	7 7 4
Fair	17.5	17.8	17.7	4.1	8.1	6.3	5.6	7.0	6.3	K : 6	110	24.2 10.4
Poor	1.4	2.0	1.7	*	1.2	6.0	9.0	1.0	0.8	6.0	1.4	t::1
Total	100.0	100.0	0.001	0.001	0.001	100.0	0.001	100.0	100.0	100.0	100.0	100.0
					25 — 4	44 years				:	i	
Excellent	27.1	26.1	26.7	36.7	40.9	38.6	43.4	40.2	41.6	25.0	36.3	176
Good	56.7	56.5	56.6	53.2	2. 30. 7.	51.1	48.1	48.0	4X 5) v	50.5	50.1
Fair	14.0	14.6	14.3	8.9	90	0.80	7.6	10.7) \(\sigma \)	1.25 C.C.L	0.10	51.7 10 6
Poor .	2.2	2.8	2.4	1.3	1.8	1.5	1.0	1.5	1.3	1.5	1.9	1.7
Total	100.0	0.001	0'001	0.001	100.0	1,00.0	0.001	100.0	0:001	0.001	0.001	0.001
					45 – 6	64 years		1				
Excellent	17.9	19.3	18.5	23.0	26.9	24.3	28.3	25.4	26.5	23.2	24.4	22.8
Good	46.8	49.0	47.7	49.5	49.3	4.64	51.8	47.7	49.2	49.4	1 64 1 64 1 7 7 7 1 1 1	48.0
Fair	25.8	25.2	25.6	20.3	16.8	19.2	15.4	20.8	18.9	20.4	510	20.7
Poor	9.5	9'9	8.3	7.2	7.0	7.1	4.5	6.1	5.5	7.0	6.3	6.7
Total	100.0	0:001	100.0	0.001	0.001	100.0	0.001	0'001	0'001	100.0	100.0	0.001
					65 years at	and over				: 		
Excellent	11.1	14.8	12.8	11.2	14.0	12.1	18.3	14.2	151	13.5	14.2	13.6
Good	41.4	42.3	41.8	42.1	38.2	40.8	45.7	44.0	4.4	43.0	40.7	2.54
Fair	32.4	32.3	32.4	31.9	30.3	31.4	25.9	31.8	30.5	30.3	31.6	31.0
Poor	12.1	10.5	13.0	14.8	17.4	15.7	10.0	10.0	10.0	13.5	11.5	12.4
Total	0:001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	100.0	0.001	100.0
					Total		ļ					
Excellent	22.9	22.4	22.7	25.9	31.7	28.2	38.3	30.4	33.5	20.8	28.6	20.2
Good	53.4	54.6	53.9	49.1	47.3	48.4	48.5	48.4	48.4	50.3	49.7	50.05
Fair	18.9	19.0	18.9	18.3	14.9	17.0	10.6	16.8	14.3	15.5	17.0	16.3
Poor	8. 8.	4.0	4 N	6.7	6.1	6.4	5.6	4.5	3.7	4.5	4.6	5.4
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	901	100	9	0 901
											Olever #	100.0

TABLE 2.4. PERSONS AGED 18 YEARS AND OVER : SMOKER STATUS BY NUMBER OF RECENT AND LONG-TERM CONDITIONS BY AGE BY SEX AUSTRALIA, 1989-90 (Per cent)

		Smoker			Ex-smoker		N.	ever smoke	<u>d</u>		Total	
Number of recent and long-term illnesses	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
<u></u>			· n • • •		18 44	years						
Number of recent												
illnesses—												
None	31.5	15.3	24.2	28.2	13.8	21.5	34.3	19.1	26.1	32.1	17.0	24.7
One	34.8	32.2	33.6	34.3	30.0	32.3	34.6	31.5	32.9	34.6	31.5	33.1
Two to three	29.4	40.7	34.5	31.6	43.5	37.1	27.0	39.7	33.8	28.7	40.7	34.6
Four or more	4.3	11.7	7.6	6.0	12.7	9.1	4.1	9.7	7.1	4.5	10.8	7.6
Number of long-term illnesses—												
None	38.9	30.9	35.3	32.2	26.4	29.5	40.5	33.6	36.8	38.3	31.6	35.0
One	32.6	30.5	31.7	33.3	32.6	33.0	33.0	30.9	31.9	32.9	31.1	32.0
Two to three	23.7	29.0	26.1	28.9	31.4	30.1	23.2	28.7	26.1	24.5	29.2	26.8
Four or more	4.8	9.6	7.0	5.5	9.6	7.4	3.4	6.8	5.2	4.3	8.1	6.2
Total	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
				4	5 years and	dover						
Number of recent												
illnesses	24.4	10.0	10.2	144	47	- 11.0	20.0	9.8	12.9	18.7	0.4	14.0
None One	24.4 29.1	12.2 22.9	19.3 26.5	14.4 23.8	6.7 18.0	11.9 21.9	20.0 30.7	22.6	25.1	27.3	9.6 21.8	14.0 24.4
			20.3 37.4	40.3	42.6	41.1	36.4	41.1	39.6	37.4		39.6
Two to three Four or more	33.9 12.5	42.3 22.6	16.7	21.5	32.7	25.2	13.0	26.5	22.4	16.5	41.6 27.0	22.0
Number of long-term illnesses—												
None	12.4	9.0	11.0	7.5	4.7	6.6	10.9	7.0	8.2	9.8	6.9	8.3
One	26.7	21.6	24.5	19.3	13.8	17.5	26.0	18.7	21.0	23.3	18.3	20.7
Two to three	38.4	41.3	39.6	42.3	45.4	43.3	40.7	44.2	43.1	40.8	43.9	42.4
Four or more	22.5	28.1	24.8	30.9	36.1	32.6	22.4	30.0	27.7	26.1	30.9	28.6
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
					Total	·						
Number of recent												
illnesses— None	29.2	14.4	22.7	19.9	10.6	16.3	29.8	14.6	20.7	26.8	13.9	20.2
One	33.0	29.4	31.4	28.0	24.6	26.7	33.4	27.3	29.7	31.7	27.3	29.5
Two to three	30.9	41.2	35.4	36.8	43.1	39.2	30.0	40.4	36.2	32.2	41.1	36.7
Four or more	6.9	15.0	10.5	15.3	21.7	17.8	6.9	17.7	13.4	9.3	17.7	13.6
Number of long-term illnesses—												
None	30.3	24.4	27.7	17.5	16.6	17.1	31.1	21.0	25.0	26.9	21.0	23.9
One	30.7	27.9	29.5	24.9	24.1	24.6	30.7	25.1	27.4	29.1	25.6	27.3
Two to three	28.4	32.7	30.3	36.9	37,7	37.2	28.8	36.0	33.1	31.0	35.5	33.3
Four or more	10.5	15.1	12.5	20.7	21.6	21.1	9.5	17.8	14.5	13.0	17.8	15.5
Total	100.0	100.0	100.0	100,0	100,0	0,001	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 2.5. AVERAGE NUMBER OF CONDITIONS EXPERIENCED(a): SMOKER STATUS OF PERSONS AGED 18 YEARS AND OVER BY SELECTED CHARACTERISTICS
AUSTRALIA, 1989-90

	Smoker	Ex-smoker	Never smoked	Tota
Sex —				
Males	2.0			
	2.9	3.7	2.9	3.2
Females	3.7	4.1	3.8	3.8
Age group (years)—				
18 — 24	2.8	3.0	2.6	2.7
25 44	3.0	3.1	29	3.0
45 — 64	3.8	4.1	3.9	3.9
65 and over	4.6	5.2	4.9	5.0
Country of birth—				
Australia	3.3	3.9	3.5	3.5
New Zealand and other Oceania	2.9	3.2	3.2	3.1
United Kingdom and Ireland	3,5	4.1	3.6	3.7
Southern Europe	2.8	3.4	3.1	3.1
Western Europe	3.2	3.6	3.6	3.5
Other Europe and U.S.S.R.	3.6	3.9	3.7	3.7
Middle East	3.0	3.1	2.8	2.9
Southeast Asia	2.5	3.1	2.6	2.7
Northeast/ Southern Asia	2.4	3.6	2.8	2.9
America and the Caribbean(b)	3.2	3.6	3.2	3.3
Africa (incl. North Africa)	3.4	4.1	3.1	3.4
Total overseas born	3.1	3.7	3.2	3.3
Highest post school qualifications —				
Still at school or never went to				
school	2.9	3.1	3.1	3.0
Bachelor degree or higher	3.3	3.7	3.1	3.3
Trade/Apprenticeship	3.0	3.8	3.1	3.3
Certificate/Diploma	3.4	3.9	3.5	3.5 3.6
Other	3.5	4.1	3.8	
No post-school qualification	3.3	3.9	3.5	3.8 3.5
Labour force status —				
Not applicable(c)	4.6	5.2	4.0	
Employed	3.0	3.3	4.9 3.0	5.0
Unemployed (looking for work)	3.2	3.3	3.0	3.0
Not in labour force	3.9	4.3	3.6	3.1 3.8
Annual income —				
Not applicable(d)	3.4	3.9	2.2	
\$0 — 9,999	3.9	· · · · · · · · · · · · · · · · · · ·	3.2	3.4
\$10,000 19,999	3.9 3.2	4.6 3.8	4.0	4.1
\$20,000 — 29,999	2.9	3.3	3.3	3.4
\$30,000 39,999	3,0		3.0	3.0
\$40,000 — 49,999	3.1	3.4 3.3	3.0	3.1
\$50,000 or more	2.9		3.1	3.1
Not stated	2.8	3.5 3.7	3.1 3.2	3.2 3.3
Total				5.5

⁽a) Reported as recent and/or long-term conditions (b) Includes Northern, South and Central America. (c) Persons aged 65 years and over. (d) Persons 18 years and over still at school and persons who did not report a source of income.

TABLE 2.6. PERSONS AGED 18 YEARS AND OVER : SMOKER STATUS BY SELECTED CONDITIONS REPORTED(a) BY AGE AND SEX
AUSTRALIA, 1989-90
(Per cent)

					Total	
Type of condition reported	Smoker	Ex-smoker	Never smoked	Males	Females	Persons
		18 44 year	rs .			
No illness	45.9	40.3	48.5	52.7	39.4	46.1
Neoplasms	0.9	1.4	1.0	0.8	1.4	1.1
Gout	0.6	1.0	0.5	1.1	* 0.1	0.6
Diabetes mellitus	0.4	0.4	0.5	0.4	0.5	0.5
Obesity	0.3	* 0.4	0.4	* 0.1	0.6	0.3
High cholesterol	1.4	1.9	1.3	1.8	1.0	1.4
Nerves, tension,						
nervousness,						
emotional problems	2.6	2.6	2.0	1.6	3.0	2.3
Depression	0.7	0.5	0.5	0.3	0.8	0.6
Hypertension	2.5	3.2	2.5	2.7	2.6	2.6
Heart disease	0.6	0.4	0.3	0.4	0.4	0.4
Bronchitis, emphysema	4.2	2.0	1.9	2.2	3.2	2.7
Asthma	7.1	8.1	6.9	6.5	7.9	7.2
Ulcer	2.1	1.4	0.8	1.7	1.0	1.3
Other diseases of the						
digestive system	3.9	4.0	3.8	3.5	4.2	3.9
Kidney diseases	1.1	0.9	0.8	0.6	1.2	0.9
Anhritis	5.9	5.8	3.9	4.6	5.2	4.9
Disorders of the		-				
intervertebral disc	3.5	3.2	2.1	3.2	2.3	2.8
Backtrouble						
(unspecified)	13.6	13.5	10.6	12.9	11.3	12.1
Total(b)	100.0	100.0	100.0	100.0	100.0	100.0
		45 years and ov	er			
No illness	24.9	15.9	17.9	23.7	14.3	18.8
Neoplasms	4.9	6.8	5.4	6.3	5.2	5.7
Gout	2.8	5.6	2.8	6.1	1.3	3.6
Diabetes mellitus	2.8	4.5	3.8	4.2	3.5	3.8
Obesity	* 0.3	* 0.3	0.6	0.3	0.6	0.4
High cholesterol	4.8	6.7	6.9	5.2	7.4	6.4
Nerves, tension,	4.0	0.7	0.7	J. L	7.7	0.7
nervousness,	6.0	5.8	6.2	4.0	7.9	6.0
emotional problems	1.2	1.5	1.3	1.0	1.6	1.3
Depression	18.3	27.0	29.0	22.3	29.6	26.1
Hypertension	6.0	11.4	6.7	8.9	7.1	8.0
Heart disease	7.8	7.6	3.4	6.2	5.2	5.6
Bronchitis, emphysema			5.4	5.3	6.3	5.8
Asthma	5.6	6.6				
Ulcer	5.7	5.6	3.0	5.1	3.7	4.4
Other diseases of the	7.6	0.0	D 7	7.7	0.5	0.7
digestive system	7.5	9.8	8.3	7.7	9.5	8.6
Kidney diseases	2.2	2.4	1.9	2.2	2.0	2.1
Arthritis	25.2	31.4	32.1	23.6	36.6	30.4
Disorders of the	ء د					<i>~</i> =
intervertebral disc	6.2	6.3	4.0	6.3	4.2	5.2
Backtrouble						
(unspecified)	13.4	12.5	11.2	13.7	10.6	12.0
Total(b)	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 2.6. PERSONS AGED 18 YEARS AND OVER : SMOKER STATUS BY SELECTED CONDITIONS REPORTED(a) BY AGE AND SEX

AUSTRALIA, 1989-90
(Per cent)—continued

				<u>, </u>	Total	
Type of condition reported	Smoker	Ex-smoker	Never smoked	Males	Females	Persons
		Total				
No illness	39.4	27.1	35.9	41.1	28.7	34.8
Neoplasms	2.2	4.3	2.8	3.0	3.0	3.0
Gout	1.3	3.5	1.4	3.1	0.7	1.9
Diabetes mellitus	1.2	2.7	1.9	1.9	1.8	1.9
Obesity	0.3	0.4	0.5	0.2	0.6	0.4
High cholesterol	2.4	4.5	3.6	3.2	3.8	3.5
Nerves, tension,				5. 2	5.0	3.5
nervousness,						
emotional problems	3.7	4.4	3.7	2.6	5.1	3.8
Depression	0.9	1.0	0.8	0.6	1.1	0.9
Hypertension	7.4	l6.1	13.4	10.5	14.1	12.3
Heart disease	2.2	6.4	2.9	3.8	3.3	3.5
Bronchitis, emphysema	5.3	5.1	2.5	3.8	4.0	3.9
Asthma	6.7	7.3	6.3	6.0	7.2	6.6
Ulcer	3.2	3.7	1.7	3.0	2.1	2.6
Other diseases of the			•	3.0	2.1	2.33
digestive system	5.0	7.1	5.7	5.2	6.5	5.8
Kidney diseases	1,4	1.7	1.3	1.3	1.5	1.4
Arthritis	11.9	19.6	15.5	12.2	18.6	15.5
Disorders of the				12.2	16.0	13.5
intervertebral disc	4.3	4.9	2,9	4.5	3.1	3.8
Backtrouble		•••	2.7	7.5	3.1	3.0
(unspecified)	13.5	12.9	10.9	13.2	11.0	12.1
Total(b)	100.0	100.0	100.0	100.0	100.0	100,0

⁽a) Reported as recent and/or long-term conditions. Each person may have reported more than one type of condition. (b) Selected conditions only are shown and therefore components do not add to totals.

TABLE 2.7. EX-SMOKERS OF PACKET CIGARETTES AGED 45 YEARS AND OVER: SELECTED CONDITIONS REPORTED(a) BY MAIN REASON FOR QUITTING SMOKING AUSTRALIA, 1989-90 (**000)

			Reduces [iiness/re-	Other health			Lost interest/did		
Type of condition	Harmful to	Coughtsore	stricts	reasons eg.	Offensive to		not feel like	Other	
reported	health(b)	throat	activity	pregnancy	others	Expense	it anymore	reasons	Total
No illness	73.0	18.2	16 1	14.7	8.2	15.3	44.8	17.6	207.9
Neoplasms	38.0	5.8	* 2.9	5.5	* 2.7	* 4.9	15.1	6.2	80.9
Gout	24.1	7.0	* 1.9	7.4	* 1.5	* 3.4	11.3	6.7	63.3
Diabetes mellitus	22.6	* 4.3	* 1.5	9.2	**	* 3.5	9.7	* 2.5	54.4
Obesity	* 2.5	**	yi At	**	**	**	**	**	* 4.9
High cholesterol	38.7	7.8	* 3.8	12.2	* 3.7	* 2.9	15.4	6.9	91.5
Nerves, tension, nervousness,									
emotional problems	35.8	6.0	* 4.0	6.4	* 2.9	* 4.0	14.0	* 3.7	76.9
Depression	9.9	**	**	* 1.5	**	* 1.6	* 3.7	* 1.7	20.7
Hypertension	143.1	30.0	10.6	34.5	10.6	17.6	67.8	24.5	338.8
Heart disease	75.3	5.9	* 1.6	12.0	* 1.9	* 4.3	20.8	11.1	133.0
Bronchitis, emphysema	52.8	9.8	* 3.1	11.0	* 3.0	* 2.7	7.9	5.7	96.2
Asthma	42.8	5.5	* 2.6	9.9	* 3.0	* 4.4	11.8	6.6	86.7
Ulcer	31.5	* 4.2	* 1.6	7.5	* 2.9	* 3.8	13.5	* 3.6	68.7
Other diseases of the									
digestive system	60.0	13.5	* 2.6	11.1	6.9	7.8	19.6	9.4	130.8
Kidney diseases	14.0	* 3.0	**	* 3.4	**	* 2.3	* 4.0	* 1.8	29.8
Arthritis	156.1	32.5	11.8	45.5	15.7	25.2	70.0	34.3	391.2
Disorders of the									-,
intervertebral disc	26.3	6.2	* 3.3	9.1	* 4.4	* 3.1	16.4	6.0	74.8
Backtrouble									
(unspecified)	69.7	15.9	8.1	14.9	5.6	9.0	30.5	16.8	170.5
Total(c)	512.6	103.3	55.6	130.0	50.1	78.1	243.9	114.2	1,287.8

⁽a) Reported as recent and/or long-term conditions. Each person may have reported more than one type of condition. (b) Includes headaches, shorness of breath, heart disease, lung cancer, bronchius, asthma, emphysema, etc. (c) Selected conditions only are shown and therefore components do not add to totals.

TABLE 2.8. PERSONS AGED 18 YEARS AND OVER: SMOKER STATUS BY BODY MASS(a) BY SEX BY AGE
AUSTRALIA, 1989-90
('000)

					,							
		Smoker		E	Ex.smoker		Ne	Never smoked	\ 		Total	
Body mass	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
					18 - 24	years						
Underweight	52.0	98.3	150.3	10.3	31.5	41.7	8.69	165.6	235.4	132.1	295.4	427.5
Acceptable weight	185.6	168.1	353.6	51.4	55.2	106.6	323.2	244.2	567.4	560.2	467.5	1,027.6
Overweight	82.5	38.2	120.6	19.2	14.1	33.4	106.6	46.5	153.1	208.3	98.8	307.1
Obese	13.1	12.8	26.0	9.0 * :	* 5.3 5.3	en y	20.0	18.1	58.1	36.1	7.00	5.27
Not available	20.3	26.1	46.4	* 4.5	6.1	10.6	22.3	73.5	8.0	47.1	Ä	7.701
Total	353.4	343.5	6'969	88.4	112.2	200.6	541.9	497.9	1,039.8	983.7	953.6	1,937.3
	:				25 — 44	44 years					İ	
11.4.4.	000	6731	2010	37.2		1117	\$0.5	255.0	306.4	136.2	494 7	630.9
Underweignt Acceptable mainhi	788.0	(45) (45)	2.017	2714	284.6	536.0	570.0	72.1.7	1 291.7	1,330,3	1.397.0	2,727.2
Overweight	3362	138.5	455.0	256.7	80.6	337.3	367.7	265.2	633.0	960.7	464.6	1,425.2
Obese	763	62.9	139.2	61.3	37.9	99.2	87.4	114.0	201.4	225.0	214.8	439.8
Not available	21.4	25.9	47.3	7.7	14.7	22.4	21.2	46.9	68.1	50.4	87.5	137.9
Trans	2 7 8 0	7537	F 734 4	5 FCY	0 (0)5	1 126 3	1 1006 0	14037	2 500 5	2.702.5	2.658.6	5.361.1
I Otat	C.10%	77.627	U#U11	C: 430	C. 100°	C.041,1	7,070,1		3 3 3 4 4			
					45 – 6	64 years						
Underweight	29.7	47.6	77.3	12.0	21.7	. 33.7	15.0	74.8	8.68	56.7	144.1	200.8
Acceptable weight	229.4	164.8	394.2	226.8	146.2	372.9	216.0	419.3	635.3	672.2	730.3	1,402.5
Overweight	185.6	7.06	276.4	292.9	79.3	372.2	230.8	287.8	518.6	709.3	457.8	1,167.1
Obese	43.9	29.4	73.2	77.4	40.8	118.2	59.7	146.2	206.0	181.0	215.4	397.4
Not available	12.3	11.2	23.5	5.6	7.5	17.0	10.3	30.1	40.4	52.1	6.6 6.0	60.9
Total	500.9	343.7	844.6	618.6	295.4	914.0	531.8	958.2	1,000,1	1,651.3	1,597.4	3,248.7
					65 years a	and over						
Underweight	35.5	23.4	39.2	28.3	25.2	53.5	14.4	101.6	116.0	58.4	150.3	208.7
Acceptable weight	69.5	53.6	123.1	194.3	96.4	290.8	106.9	320.9	427.9	370.8	470.9	841.7
Overweight	38.6	25.1	63.7	171.3	52.4	223.7	83.3	192.8	276.1	293.3	270.3	563.6
Obese	8.7	5.9	14.1	36.6	23.8	60.4	17.7	75.6	93.3	62.5	E 501	16 / 3
Not available	* 4.6	10.2	14.8	7.3	14.6	21.9	10.3	68.3	78.6	77.7	72%	£.CI1
Total	136.7	118.2	254.9	437.8	212.5	650.3	232.6	759.3	6766	807.1	6'680'1	1,897.1
					Total							
Underweight	156.0	324.0	480.0	77.8	162.5	240.4	149.6	597.9	747.6	383.4	1,084.4	1,467.9
Acceptable weight	973.3	777.2	1,750.5	743.9	582.4	1,326.3	1,216.2	1,706.1	2,922.3	2,933,4	3,055.7	2,999.1
Overweight	642.9	272.8	915.7	740.2	226.4	966.5	788.5	792.3	1,580.8	2,171.5	5.162,1 0.753	1,463.1
Obese	141.5	111.0	252.5	178.3	107.8	286.1	184.8	355.9	558.7 525.8	304.6 151.7	285.1	436.8
Not available	58.6	73.5	132.0	29.1	42.9	12.0	0. 4 .0	0.001	0.252		11707	
Total	1,972.3	1,558.5	3,530.7	1,769.2	1,122.0	2,891.2	2,403.2	3,619.0	6,022.2	6,144.7	6,299.5	12,444.2
(a) Derived from self-reported height and weight.	eight and weight											

) Denved from self-reported height and weign

TABLE 2.9. PERSONS AGED 45 YEARS AND OVER WHO ARE CURRENT OR EX-SMOKERS: DURATION OF SMOKING BY NUMBER OF RECENT AND LONG-TERM CONDITIONS AUSTRALIA, 1989-90

		Current Smokers			Ex-smokers	·	
Number of recent and long-term illnesses	Less than 10 years	10 - 19 years 20	years or more	Less than 10 years	10 - 19 years 20 y	ears or more	Total
			,0000-	-			
Number of recent illnesses—							
None	* 2.4	5.7	204.1	22.3	36.0	90.5	398.2
One	* 3.4	7.6	280.6	42.7	63.5	174.5	633.9
Two to three	* 3.9	11.0	396.8	60.5	108.6	352.5	1,054.1
Four or more	**	7.4	175.6	31.6	46.2	240.1	577.6
Number of long-term illnesses—							
None	* 1.8	* 4.5	114.5	12.3	23.6	49.0	223.5
One	* 3.0	8.7	258.2	35.4	56.7	140.9	543.7
Two to three	* 3.5	11.6	420.7	66.6	108.4	370.7	1,113.0
Four or more	* 2.5	6.9	263.7	42.7	65.5	297.0	783.6
Total	10.8	31.7	1,057.1	157.0	254.3	857.6	2,663.8
			— Per cent	_			
Number of recent ülnesses—							
None	* 21.8	18.0	19.3	14.2	14.2	10.5	14.9
One	* 31.3	23.9	26.5	27.2	25.0	20.4	23.8
Two to three	* 35.8	34.9	37.5	38.5	42.7	41.1	39.6
Four or more	**	23.2	16.6	20 . I	18.2	28.0	21.7
Number of long-term							
illnesses-							
None	* 16.5	* 14.1	10.8	7.8	9.3	5.7	8.4
One	* 27.6	27.4	24.4	22.6	22.3	16.4	20.4
Two to three	* 32.5	36.8	39.8	42.4	42.6	43.2	41.8
Four or more	* 23.4	21.8	24.9	27.2	25.8	34.6	29.4
Total	100,0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 2.10. PERSONS AGED 45 YEARS AND OVER WHO ARE CURRENT OR EX-SMOKERS: DURATION OF SMOKING BY SELECTED CONDITIONS(a) EXPERIENCED AUSTRALIA, 1989-90

Type of condition experienced	Less than 10		**				
Type of condition experienced		.0.10		Less than 10	10 10	20 years or	Tota
	years	10 - 19 years	more	years	10 - 19 years	more	1010
		',	000—				
Ko illness	* 2.9	8.6	262.6	31.3	50.4	121.1	522.
Neoplasms	**	* 1.7	52.0	6.2	12.5	61.2	160.
Gout Gout	**	**	31.0	* 3.7	11.2	47.6	118
Diabetes mellitus	**	* 1.5	28.8	* 4.4	9.9	40.1	101
Desity	**	**	* 2.8	**	**	* 3.6	8
ligh cholesterol	**	* 1.6	50.8	8.2	16.8	65.8	157
lerves, tension,							
nervousness,							
motional problems	* 1.4	* 2.3	62.8	6.9	13.5	55.5	157
epression	**	**	12.3	* 3.6	* 2.7	14.3	3€
Support en sion	* 1.9	* 4.2	195.3	34.6	52.0	249.3	623
leart disease	**	* 1.9	63.5	8.7	11.4	111.5	243
Pronchitis, emphysema	**	* 1.7	84.0	* 3.8	8.9	82.5	205
sthma	**	* 1.4	60.2	9.3	16.4	60.1	164
Лсег	**	**	62.1	6.5	11.4	49.0	150
Other diseases of the							
digestive system	**	* 2.5	79.1	14.2	20.0	95.1	236
Lidney diseases	**	**	23.1	* 4.5	**	24.6	61
arthrius	* 3.2	6.7	266.9	38.0	64.5	285.2	767
visorders of the	5. 2						
ntervertebral disc	**	* 2.2	65.8	11.2	12.3	51.0	161
lacktrouble		2.2	00.0				
(unspecified)	* 2.1	* 4.7	- 140.0	20.8	38.3	107.9	342
(dispectice)							
l'otal(b)	10.8	31.7	1,057.1	157.0	254.3	857.6	2,663
		— Pe	r cent				
No illness	* 26.7	27.0	24.8	19.9	19.8	14.1	19
Veoplasms	**	* 5.3	4.9	3.9	4.9	7.1	ŧ
Sout	**	**	2.9	* 2.4	4.4	5.6	4
habetes mellitus	**	* 4.9	2.7	* 2.8	3.9	4,7	3
Desity	**	**	* 0.3	水市	**	* 0.4	
ligh cholesterol	**	* 5.2	4.8	5.2	6.6	7.7	
Verves, tension,							
nervousness,							
emotional problems	* 12.7	* 7.2	5.9	4.4	5.3	6.5	:
Depression	**	**	1.2	* 2.3	* 1.1	1.7	
lypertension	* 17.5	* 13.1	18.5	22.0	20.5	29.1	23
leart disease	**	* 6.1	6.0	5.6	4.5	13.0	
Bronchitis, emphysema	**	* 5.5	7.9	* 2.4	3.5	9.6	-
Asthma	**	* 4.3	5.7	5.9	6.4	7.0	
Iloet	**	**	5.9	4.1	4.5	5.7	
					1.2	\$7. F	•
Other diseases of the	**	* 7.9	7,5	9.0	7.9	11.1	:
ligestive system	**	7.7	2.2	* 2.9	**	2.9	
(idney diseases	* 29.5	21.3	25.2	24.2	25.4	33.3	2
Arthritis	. 49.3	21.3	2.2	24.2	23.7	.,	
Disorders of the	**	* 7.0	6.2	7.2	4.8	5.9	
intervertebral disc	**	" /.U	0.2	1.2	4.0	3.7	,
Backtrouble (unspecified)	* 19.2	* 14.9	13.2	13.3	15.1	12.6	13
Fotal(b)	100.0	100.0	0.001	100.0	100.0	100.0	10

⁽a) Reported as recent and/or long-term conditions. Each person may have reported more than one condition. (b) Selected conditions only are shown and therefore components do not add to totals.

TABLE 2.11. CHILDREN AGED 0 TO 14 YEARS: SELECTED TYPES OF RECENT AND LONG-TERM CONDITIONS EXPERIENCED(a)BY AGE BY NUMBER OF SMOKERS IN HOUSEHOLD AUSTRALIA, 1989-90 (Per cent)

	0 to 4 y	ears	5 to 9 y	ears	10 to 14	years	
Type of conditions	No smokers in household	I or more smokers in household	No smokers in household	l or more smokers in household	No smokers in household	l or more smokers in household	Total
No illness	21.3	23.8	25.4	25.9	25.1	25.0	24.4
Diseases of the nervous system and							
sense organs —							
Disorders of refraction and							
accommodation	* 0.4	* 0.6	3.5	4.7	8.9	9,9	4.0
Otitis media	4.9	4.5	4.0	3.1	1.6	1.6	4.9 3.2
Diseases of the respiratory system -		11.2	1.0	3.1	1.0	1.0	3.2
Common cold	22,9	22.5	15.9	14.3	10.7	9.7	15.7
Influenza	2.0	2.9	1.8	2.1	2.3	2.8	
Bronchitis, emphysema	2.0	2.8	2.2	3.4	1.2	2.0	2.3 2.2
Asthma	9.3	10.1	16.0	18.3	13.7	2.0 16.1	13.9
Sinusitis	**	* 0.2	1.3	1.2	2.5	2.8	
Hayfever	1.8	1.4	4,7	3.7	10.5	8.9	1.4 5.5
Cough or sore throat	4.2	4.4	5.0	4.4	3.0	2.8	3.9
Other diseases of the respiratory			5.0	7,7	3.0	2.0	3.9
system	5.5	4.8	4.9	5.7	2.9	3.6	4.5
Diseases of the digestive system —			1.2	5.7	2.7	3.0	4.3
Dental problems	10.7	9.8	- 5.5	5.5	7.9	6.1	7.6
Other diseases of the digestive		,,,	-7 -47	5.5	1.5	0.1	7.0
system	4.7	3.7	3.4	3,9	2.6	2.6	3.4
Diseases of the skin and			5.1	5.7	2.0	2.0	3.4
subcutaneous tissue							
Skin rash	2.4	2.5	1.4	1.1	1.2	1.1	1.6
Eczema, dermatitis	18.2	16.1	6.8	6.7	5.2	5.6	9.5
Other diseases of the skin and			17.0	0.7	3.2	5.0	9.3
subcutaneous tissuc	2.5	2.2	3.1	2.4	7.0	5.3	3.9
Symptoms, signs and ill-defined			0.1	2.4	7,0	3.3	3.9
conditions —							
Allergy unspecified	3.1	2.4	3.7	3.1	3.4	3.7	3.3
Headache — due to unspecified or				5.1	2.7	٠,١	3.3
trivial cause	* 0.3	* 0.6	4.3	4.3	9.4	10.7	5.2
Virus	1.3	2.4	1.8	1.8	1.2	1.7	1.7
Injury and poisoning —					1.2	1.7	1.1
Injuries	7.1	7.1	8.5	9.4	9.6	10.1	8.7
Total(b)	100.0	100.0	100,0	100,0	100.0	100.0	100.0

⁽a) Conditions most commonly experienced by children. (b) Selected conditions only are shown and therefore components do not add to totals.

ALCOHOL CONSUMPTION

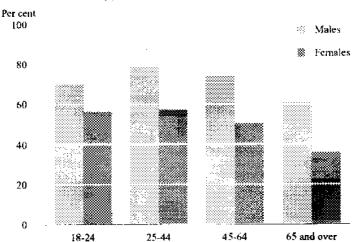
CHARACTERISTICS OF DRINKERS

Results of the 1989-90 National Health Survey show that the majority of adult Australians drank alcohol, with almost three quarters of survey respondents reporting they had drank alcohol in the previous month, and 62.5 per cent in the previous week. Some 15.9 per cent reported they did not drink alcohol or had last consumed alcohol 12 months or more ago.

Of those who drank in the week prior to interview, 82.2 per cent drank a quantity in that week which would constitute a low risk to their health (according to National Health and Medical Research Council guidelines) if they continued to drink alcohol in that quantity (for males less than 50 mls of alcohol per day, for females less than 25 mls). Some 10.9 per cent drank at a level constituting a moderate risk to health (for males 50 to 75 mls per day, for females 25 to 50 mls) and 6.9 per cent were in the high risk group (males over 75 mls, and females over 50 mls per day).

A higher proportion of males consumed alcohol in the week prior to interview (73.5%) than females (51.8%). The majority of both males and females who drank in that week did so at low health risk levels (79.7% of males, 85.6% of females).

The pattern of alcohol consumption differed between age groups, with proportionally fewer people in older age groups drinking alcohol than those in younger groups. For example, 46.6 per cent of those aged 65 years and over drank alcohol in the previous week compared with 63.4 per cent of those aged 18 to 24 years and 67.8 per cent of those aged 25 to 44 years. Among those aged 18 to 24 years who drank, 9.4 per cent consumed alcohol at a high risk level.



Age (years)

CHART 3.1. PERSONS AGED 18 YEARS AND OVER WHO DRANK ALCOHOL(a): AGE BY SEX, AUSTRALIA 1989-90

(a) In the week prior to interview.

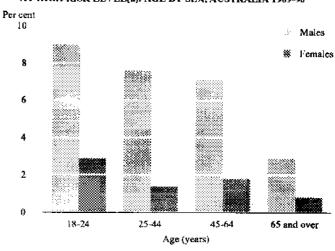


CHART 3.2. PERSONS AGED 18 YEARS AND OVER WHO DRANK ALCOHOL A'T HIGH RISK LEVEL(a): AGE BY SEX, AUSTRALIA 1989-90

(a) In the week prior to interview.

Drinker status also differed by birthplace (Table 3.1). Of those people born overseas, 49.8 per cent were classified as low risk drinkers white 42.0 per cent consumed no alcohol in the previous week. Equivalent proportions for Australian born people were 52.0 per cent and 35.8 per cent respectively. Among those born in Southern Europe, the Middle East, and Southeast, Southern and Northern Asia, the proportion who had not consumed alcohol in the previous week was higher than the proportion who were low risk drinkers.

The pattern of alcohol consumption also differed by education level. For example, almost nine out of every ten people with no post-school qualification reported no or low risk consumption in the previous week. In contrast, 16.7 per cent of those with a trade or apprenticeship qualification reported moderate or high risk level consumption.

Consistent with their older age profile, proportionally fewer persons not in the labour force consumed alcohol than either employed or unemployed people. Proportionally more employed people drank alcohol (71.2%) than people in the other labour force groups and of these, 80.8 per cent reported consumption at a low risk level.

Alcohol consumption also varied for different levels of income. The proportion of people consuming some alcohol in the previous week was much higher in higher income groups (for example, 82.8% of those with a gross personal annual income of \$50,000 or more) than low income groups (47.8% of those with an annual income of less than \$10,000). However, within each income group the distribution of drinkers by health risk level was similar.

Whether drank more or less than usual

As much of the alcohol consumption data discussed in this chapter relates to consumption in the week prior to interview, an important consideration in looking at associations between consumption levels and health is the extent to which consumption in that week was typical.

Of those persons who reported drinking alcohol in the previous week, 33.8 per cent reported they drank more than usual in that week, 6.4 per cent drank less than usual while 59.9 per cent reported drinking about the same amount as usual. The pattern differed slightly for men and women with 31.6 per cent of men drinking more than usual compared to 36.8 per cent of women.

The drinking pattern also varied for different age groups. A smaller proportion of both males and females in the older age groups reported drinking more than usual (for example, 18.6% of those aged 65 years and over) than in the younger age groups (45.2% of 18 to 24 year olds). Conversely, the percentage of people who drank about the same amount as usual increased with age (44.6% of 18 to 24 year olds compared with 77.6% of those aged 65 and over).

Overall, the proportion of people who reported drinking more than usual in the previous week increased slightly as alcohol risk level increased (33.2% of low risk, 36.1% of medium risk and 36.3% of high risk level drinkers). However, this pattern was not consistent across all age groups. Among 18 to 24 years olds, 41.7 per cent of low risk, 56.2 per cent of medium risk and 59.5 per cent of high risk level drinkers reported drinking more than usual with higher proportions of females than males for all risk levels. No clear pattern emerged for people aged 25 years and over.

Self assessed health status

Overall, the majority of Australian adults reported that they were in good or excellent health (79.2%) with similar proportions recorded for males (80.1%) and females (78.3%). As expected, the survey results show that health status is related to age with the proportion of people in good or excellent health decreasing with age (88.4% of 18 to 24 year olds, 72.7% of 45 to 64 year olds and 56.6% of those aged 65 years and over). Conversely, the older age groups had a greater proportion of people in fair or poor health (11.5% of 18 to 24 year olds increasing to 27.4% of 45 to 64 year olds and 33.4% of the 65 and over age group).

Health status also differed according to alcohol risk level (Table 3.4). A higher proportion of people who consumed alcohol regarded themselves as in good or excellent health (83.0%) than people who did not drink in the previous week (72.9%). Of the estimated 7,777,500 people who consumed alcohol, however, the high risk level group recorded the smallest proportion of people in good or excellent health (76.6%). The health status pattern was similar for males and females.

Number of conditions reported

Consistent with the older age profile of those who had not consumed alcohol in the previous week, this group had the highest proportion of people with illnesses. Overall, 81.0 per cent of non drinkers reported one or more recent illnesses while 76.6 per cent had at least one long-term illness. This compares with low risk level drinkers (79.4% had recent illnesses and 76.1% had long-term illnesses) and those who drank at the high risk level (74.3% had recent illnesses and 72.9% had long-term illnesses). Of all age and risk level groups, females aged 45 years and over who drank at the high risk level recorded the highest prevalence of illness with 94.5 per cent reporting one of more long-term illnesses.

The number of illness conditions experienced by people varied considerably by age with the prevalence of illness increasing in older age groups, from an average number of 2.7 for 18 to 24 year olds to 5.0 for those aged 65 and over. This pattern was evident regardless of drinking status but some variations by risk level were apparent.

Among those aged 45 years and over, persons who did not drink in the previous week reported the highest average number of illnesses (4.1 for the 45 to 64 years age group and 5.0 for the 65 and over age group). In the younger age groups, however, medium risk level drinkers reported a higher average number of conditions (2.9 for the 18 to 24 years age group and 3.0 for those aged 25 to 44 years) than either the high risk level group or the non drinkers.

The pattern also differed for males and females. The average number of conditions reported by males decreased with level of risk from 3.3 for non drinkers to 3.0 for those in the high risk group. In contrast, females in the high risk group had the highest average number of conditions (4.1) while the low and medium risk level drinkers had an equal average number of conditions (3.8).

Types of conditions reported

Some differences were found in the prevalence of certain illness conditions according to alcohol consumption. These differences were most pronounced among the older age groups (Table 3.7).

Heart disease, which has been associated with alcohol consumption, was found to be more prevalent among those aged 45 years and over who had not consumed alcohol in the previous week (9.9%) than those who had (6.4%) (see Chart 3.3). The pattern of heart disease was similar for males and females in this age group although the overall rates were higher for males. Among those who did not drink, 11.8 per cent of males reported heart disease compared with 9.0 per cent of females. Of those males who consumed alcohol, 7.6 per cent reported heart disease with the highest rate recorded for the low risk level drinkers (8.3%). Of females aged 45 years and over, 4.8 per cent of drinkers and 5.2 per cent of low risk level drinkers reported that they had the disease.

These figures on heart disease should be interpreted with care, however, as it is possible that people stopped drinking after being diagnosed with a heart condition. Other risk factors including age, obesity and smoking should also be taken into consideration.

Gout, which has also been linked with alcohol consumption, was more prevalent among males (6.1%) than females (1.3%) aged 45 years and over. Of all males in this age group, the proportion of drinkers with gout (8.9%) was more than double that of persons who did not drink (4.3%). Among those males who consumed alcohol, the highest proportions reporting the disease were recorded for the medium and high risk level groups (11.9% and 10.7% respectively).

In the 45 years and over age group, diabetes mellitus was more prevalent among persons who had not consumed alcohol in the previous week (5.6%) than drinkers (2.4%) (see Chart 3.3). The pattern was similar for males and females although, overall, the disease was more prevalent among males. Care should be taken when interpreting these results, however, as non-drinkers tend to be older than drinkers and are therefore at greater risk of illness irrespective of alcohol consumption patterns. For example, 21.7 per cent of those who did not drink in the previous week were aged 65 years and over compared to only 11.4 per cent of drinkers. It is also likely that people may have stopped drinking after contracting diabetes mellitus.

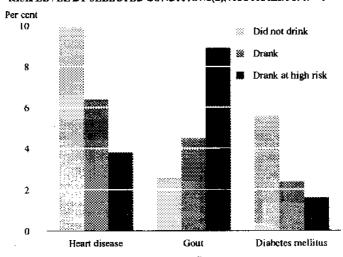


CHART 3.3. PERSONS AGED 45 YEARS AND OVER: SELECTED ALCOHOL RISK LEVEL BY SELECTED CONDITIONS(a), AUSTRALIA 1989-90

(a) Reported as recent and/or long-term conditions.

Drinking has also been linked with cancer of the larynx and oesophagus. Information identifying specific sites of neoplasms (cancer) is not available from the survey. However, in the 45 years and over age group, the prevalence of neoplasms among females who drank at high risk level (10.6%) was double that of those who did not drink (5.0%). The pattern was different for males, however, with the same proportion of high risk level drinkers and those who did not drink (7.2%) reporting neoplasms.

Nerves, tension, nervousness and emotional problems were more prevalent among females, reported by 5.1 per cent of the adult female population compared with only 2.6 per cent of men. Of all alcohol risk level groups, the prevalence of those conditions was highest among women aged 45 years and over who drank at the high risk level (10.6%).

In the 45 years and over age group, ulcers and other diseases of the digestive system were more prevalent among those persons who did not drink in the previous week than those who did. Ulcers were reported by 4.6 per cent of non drinkers compared to 4.2 per cent of drinkers and were more common among males (5.1%) than females (3.7%). Of those persons who consumed alcohol in the previous week, ulcers were most prevalent among the high risk level drinkers (5.8% of males and 5.7% of females). Other diseases of the digestive system were reported by 9.6 per cent of those who did not drink compared with 7.9 per cent of drinkers aged 45 years and over. The pattern differed for males and females, with the highest prevalence for males recorded for low risk level drinkers (7.3%) whereas the highest proportion with these diseases (12.5%) was recorded among females who drank at the highest risk level.

Body mass

Obesity, which is often associated with high levels of alcohol consumption, has also been linked to ill health, and particularly diseases such as diabetes and heart disease.

Adults were classified into body mass groups - underweight, acceptable weight, overweight or obese on the basis of their reported height and weight. Overall, 43.5 per cent of males and 29.6 per cent of females were classified overweight or obese, with similar proportions of drinkers (36.3%) and those who did not drink in the previous week (36.7%) falling into this category (Table 3.9). Among drinkers, the highest proportion of overweight and obese persons (42.7%), was recorded for those who consumed alcohol at a high risk level.

The pattern of alcohol consumption and body mass differed considerably for males and females. The proportion of overweight and obese males increased with alcohol risk level from 41.6 per cent of those who did not drink to 43.5 per cent of low risk level, 46.9 per cent of medium risk level and 47.3 per cent of high risk level drinkers. In contrast, the highest proportion of overweight and obese females was recorded for non drinkers (34.2%) while medium and high risk level drinkers recorded the lowest rates (21.5% and 23.2% respectively).

SUMMARY

Of adult Australians, more than half consumed alcohol in the previous week with the majority drinking at a low risk level. Most Australians reported they were in good or excellent health but a higher proportion of drinkers rated their health as good or excellent than those who did not drink. Among drinkers, however, those who drank at a high risk level recorded the smallest proportion of people in good or excellent health.

Consistent with the older age profile of those who did not drink in the previous week, this group reported the highest prevalence of illness conditions. In the 45 years and over age group, heart disease, diabetes, ulcers and other diseases of the digestive system were all more common among those people who did not drink in the previous week. It is possible, however, that people may have stopped drinking after being diagnosed with these conditions. Gout, a disease most common among males, was far more prevalent among those males who drank than those who did not. Nerves, tension, nervousness and emotional problems were more common among females, particularly those who drank at a high risk level.

TABLE 3.1. PERSONS AGED 18 YEARS AND OVER: ALCOHOL RISK LEVEL(a) SELECTED CHARACTERISTICS AUSTRALIA, 1989-90

('000) (Per cent) Drank alcohol Drank alcohol Total Total who who Did not consuconsu-Did not med drink Low Medium High med Low Medium High drink alcohol Totalalcohol risk risk Selected characteristics alçohol risk risk risk alcohol Total riskSex — 7 R 7.1 73.5 100.0 1,627.4 3,602.3 480.4 434.5 4,517.2 6,144.7 26.5 58.6 Males 3,039.2 2,790.3 101.5 3,260.3 6,299.5 44.3 5.9 1.6 51.8 100.0 368.5 48.2 Females Age group (years)-115.6 1,228.6 1,937.3 7.9 6.0 100.0 708.7 960.1 152.9 36.6 49 6 63.4 18 - 24100.0 2,997.9 396.4 243.1 3,637.4 5,361.1 32.2 55.9 74 4.5 67.8 25 - 441,723.7 2,027.1 37.6 50.9 7.0 4.5 62.4 100.0 45 - 641,221.7 1,655.2 225.9 146.0 3.248.7 884.5 1,897.1 53.4 41.1 3.9 1.6 46.6 100.0 73.8 31.3 779.4 65 and over 1,012.6 Country of birth -669.7 437.0 5,803.0 9,039.7 35.8 52.0 7.4 4.8 64.2 100.0 3,236.7 4,696.3 Australia New Zealand and other 6.9 68.8 100.0 19.1 52.7 253 190.4 276.9 9.1 86.5 146.0 31.2Oceania 100.0 United Kingdom and Ireland 364.8 670.8 89.3 43.6 803.7 1,168.6 31.2 57.4 7.6 3.7 68.8 14.6 367.9 708.5 48.1 46.4 3.5 2.1 51.9 100.0Southern Europe 340.7 328.5 24.7 12.2 270.7 443.6 39.0 53.5 4.8 2.7 61.0 100.0 21.3 Other Europe and U.S.S.R. 172.9 237.3 35.4 100.0 Middle East 97.2 51.6 53.3 150.664.6 34.3 * 0.9 * 1.5 100.0 173.6 * 4.0 * 2.3 88.3 261.9 66.3 31.3 33.7 Southeast Asia 82.0 * 2.0 Northeast/ Southern Asia 132.1 79.3 * 4.3 * 2.4 86.0 218.1 60.6 36.4 * 1.1 39.4 100.0 Nonhern, South and Central 103.5 33.9 58.2 5.4 * 2.5 66.1 100.0 60.2 5.6 * 2.6 68.4 America and the Caribbean 35.1 * 2.1 * 5.1 100.0 27.0 40.5 * 3.7 * 1.6 45.8 72.8 37.1 55.6 62.9 Africa (incl. North Africa) 1.430.0 1.696.4 179.2 99.0 1,974.5 3,404.5 42.0 49.8 5.3 2.9 58.0 100.0 Total overseas born Highest post school qualifications -Still at school or never went to * 1.6 75.2 22.0 24.8 100.0 school 21.9 88.5 * 1.8 66.6 19.5 77.3 100.0 34.0 26.0 63.9 3.1 74.0 Bachelor degree or higher 286.8 703.3 814.7 1.101.57.0 468.5 1,034.5 166.2 135.7 1,336.4 1,804.9 26.0 57.3 9.2 7.5 74.0 100.0 Trade/Apprenticeship 1,400.5 1,645.7 163.3 81.8 2.532.9 35.0 55.3 6.4 3.2 65.0 100.0 887.2 Certificate/Diploma * 3.8 * 4.5 80.2 53.3 100.0 40.6 64.4 11.3 120.833.6 9.4 66.4 Other No post-school qualification 429.1 279.0 3,878.6 6,795.6 42.9 46.7 6.3 4.1 57.1 100.0 2,917.0 3,170.5 Labour force status(b) -100.0 57.6 8.2 5.4 71.2 2,192.1 4,383.0 626.2 414.0 5,423.2 7,615.3 28.8 Employed Unemployed (looking for 347.6 47.1 6.9 61.3 100.0 219.2 266.7 42.0 7.4 work) 51.8 1,122.2 2,365.1 52.5 40.7 4.5 2.2 47.5 100.0 963.5 107.0 Not in labour force 1,242.8 Gross personal annual income(c) — 47.8 100.0 1,995.3 1,566.5 162.4 95.0 1,823.8 3,819.2 52.2 41.0 43 2.5 \$0 - 9,999100.0 \$10,000 -- 19,999 1,020.7 1,395.6 182.3 119.4 1,697.4 2,718.1 37.6 51.3 6.7 4.4 62.4 213.5 152.7 1,788.9 2,454.9 27.1 58.0 8.7 6.2 72.9 100.0 \$20,000 -- 29,999 666.0 1,422.7 \$30,000 -- 39,999 22.3 289.1 805.9 124.8 76.6 1,007.3 1,296.4 62.2 9.6 5.9 77.7 100.0 29.0 407.1 17.4 9.1 5.9 100.0 \$40,000 --- 49,999 85.7 333.2 45.0 492.8 67.6 82.6 \$50,000 or more 86.7 336.0 50.3 30.2 416.5 503.3 17.2 66.810.0 6.0 82.8 100.0 279.5 36.7 52.8 63.3 100.0 Not stated 162.1 233.3 30.1 16.1 441.6 3.6 848.9 535.9 7,777.5 12,444.2 37.5 4.3 62.5 100.0 4,666.7 6,392.6 51.4 6.8 Total

⁽a) Derived from consumption reported during the week prior to interview. See Appendix B. (b) Persons 18 to 64 years only. (c) Persons 18 years and over who reported a source of income.

TABLE 3.2. PERSONS AGED 18 YEARS AND OVER: ALCOHOL RISK LEVEL(a) BY AGE BY SEX AUSTRALIA, 1989-90

('000) Per cent Drank alcohol Drank alcohol Total Total who who Did not consu-Did not consudrinkMedium med drink Medium med alcohol Low risk risk High risk alcohol Total alcohol Low risk risk Highrisk Total Age group (years) alcohol Males 293.9 689.8 29.9 18 - 24518.6 83.1 88.1 983.7 52.7 8.4 9.0 70.1 100.0 2,702.5 25 - 44205.5 2.115.2 587.3 1.676.6 233.2 100.0 21.7 62.0 8.6 7.6 78.3 45 - 647.1 430.3 972.9 130.3 117.9 1,221.0 1,651.3 26.1 58.9 7.9 73.9 100.0 316.0 434.3 33.8 23.0 491.2 807.1 53.8 65 and over 39.1 4.2 2.9 60.9 100.0 Total7.11,627.4 3,602.3 480.4 434.5 4,517.2 6,144.7 26.5 58.6 7.8 73.5 100.0 Females 18 — 24 25 — 44 45 — 64 538.8 4148 441.5 69.8 27.5 953.6 100.0 43.5 46.3 7.3 2.9 56.5 37.6 1,136.4 1,321.3 163.2 1,522.2 2,658.6 42.7 49.7 6.1 1.4 57.3 100.0 791.4 682.3 95.6 806.0 1.597.4 49.5 42.7 28.1 6.0 50.5 100.0 1.8 39.9 393.3 1,089.9 65 and over 696.6 345.2 8.2 63.9 31.7 3.7 0.8 36.1 100.0 Total3,039.2 2,790.3 368.5 101.5 3,260.3 6,299.5 48.2 44.3 5,9 1.6 51.8 100.0 Persons 18 - 24708.7 960.1 152.9 115.6 1,228.6 1,937.3 36.6 49.6 7.9 6.0 63.4 100.0 25 --- 44 2,997.9 1,723.7 396.4 243.1 3.637.4 5,361.1 55.9 7.4 32.2 4.5 67.8 100.0 45 — 64 1,655.2 1.221.7 225.9 3.248.7 7.0 146.0 2.027.1 37.6 50.9 4.5 62.4 100.0 65 and over 1,012.6 779.4 73.8 31.3 884.51,897.1 53.4 41.1 3.9 1.6 46.6 100.0 Total 4,666.7 6,392.6 848.9 535.9 7,777.5 12,444.2 37.5 51.4 6.8 4.3 100.0 62.5

⁽a) Derived from consumption rates reported during the week prior to interview. See Appendix B.

TABLE 3.3. PERSONS AGED 18 YEARS AND OVER: AGE BY WHETHER DRANK MORE OR LESS THAN USUAL BY ALCOHOL RISK LEVEL(a) BY SEX
AUSTRALIA, 1989-90
(Per cent)

						Drank alcohol	ohal		į					Total	
·		Low risk		¥	Mediun risk			High risk		Total who	Total who consumed alcohol	lcohol			
Whether drank more or less than usual	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Fernales	Persons	Males	Females	Persons
						18.	- 24 years					ı			
Did not drink alcohol	##	*	**	*	*	*	*	#	*	*	*	*	29.9	43.5	36.6
More than usual	38.7	45.2	41.7	48.7	65.0	56.2	57.3	6.99	59.5	42.3	48.9	45.2	29.7	27.6	28.7
Less than usual	11.7	10.8	11.3	9.1	5.6	7.5	5.2	*	4.6	10.6	6.6	10.2	7.4	5.5	6.5
About the same	49.5	43.9	47.0	42.2	29.5	36.4	37.4	31.0	35.9	47.1	41.4	44.6	33.0	23.4	28.3
Total	0.001	0'001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0:001	0.001	0.001	0.001	0.001	0.001
						25-	— 44 years								
Did not drink alcohol	*	#	*	*	*	*	*	*	*	*	*	**	21.7	42.7	32.1
More than usual	35.9	39.6	37.5	43.8	46.2	44.8	40.1	4	40.7	37.1	40,4	38.5	29.1	23.1	26.1
Less than usual	7.9	6.7	4.7	3.1	. e.	स	80	4.4	2.2	∞ •	6.4	9.9	5.3	3.6	4.5
About the same	56.2	53.7	55.1	53.0	50.0	51.8	58.1	51.5	57.1	56.1	53.2	54.9	43.9	30.5	37.2
Total	0.001	0'001	100.0	0.001	0.001	100.0	100.001	0'001	0'001	0.001	0.001	0.001	0.001	0.001	0'001
						45-	– 64 years								
Did not drink alcohol	**	*	**	*	† * 	***	*	*	*	*	*	*	26.1	49.5	37.6
More than usual	23.7	31.1	26.7	16.2	18.2	17.0	14.8	23.1	16.4	22.0	29.3	24.9	16.3	14.8	15.5
Less than usual	5.7	4.7	53	3.4	*	2.3	3.1	*	3.2	5.2	4.2	4.8	3.8	2.1	3.0
About the same	7.07	64.2	0.89	80,4	80.9	80.6	82.1	73.0	80.4	72.8	66.5	70.3	53.8	33.5	43,9
Total	0.001	0.001	0.001	0.001	0'001	0.001	100.0	0.001	0.001	100.0	100.0	0.001	100.0	100.0	0.001
						65 yes	years and over					i			
Did not drink alcohol	*	*	*	*	*	*	*	*	チ	*	*	*	39.1	63.9	53.4
More than usual	17.2	23.7	20.1	7.3	5.9	6.5	8.7	*	30 30	16.1	21.6	18.6	8.6	7.8	8.7
Less than usual	4.3	3.9	4.1	*	3.7	2.4	*	*	*	3.9	3.0	8. 8.	2.4	1.4	8 .1
About the same	78.4	72.4	75.8	919	90.4	91.1	91.3	808	91.2	80:0	74.6	9.77	48.7	26.9	36.2
Total	0'001	0:001	0'001	0.001	0.001	0'001	100.0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

TABLE 3.3. PERSONS AGED 18 YEARS AND OVER: AGE BY WHETHER DRANK MORE OR LESS THAN USUAL BY ALCOHOL RISK LEVEL(a) BY SEX AUSTRALIA, 1989-90
(Per cent)—continued

						Drank alcohol	cohol							Total	
	•	Low risk		. ¥	Medium risk			High risk		Total who	Total who consumed alcohol	ilcohol			
Whether drank more or less than usual	Males	Males Females Persons	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
							Total								
Did not drink alcohol	**	**	##	*	*	*	*	**	*	**	*	*	26.5	48.2	37.5
More than usual	30.7	36.4	33.2	34.6	38.2	36.1	35.1	41.5	36.3	31.6	36.8	33.8	23.2	19.0	21.1
Less than usual	7.4	6.5	7.0	4.1	3.4	3.8	2.7	3,4	2.9	9.9	6.1	6.4	4.9	3.1	4.0
About the same	61.8	57.0	29.7	61.3	58.5	60.1	62.2	55.1	8.09	61.8	57.1	89.9	45.4	29.6	37.4
'Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	100.0	0.001	0.001
(a) Derived from consumption reported during the week prior to interview. See Appendix B	n reported duri	ing the week pa	rior to interviev	v, See Appen	dix B.										

TABLE 3.4. PERSONS AGED 18 YEARS AND OVER; ALCOHOL RISK LEVEL(a) BY SELF ASSESSED HEALTH STATUS BY AGE BY SEX
AUSTRALIA, 1989-90
('000)

									Drank alcohol	cohol								
			•															
	Did no	Did not drink alcohol	cohol	7	Low risk		Mec	Medium risk		Hi	High risk	:	Total p	Total persons who consumed alcohol	ho loi		Total	
Self assessed health status	Males	Females	Males Females Persons	Males F	Males Females Persons	Persons	Males Females Persons	emales 1	ersons	Males Fernales Persons	males P	ersons	Males F	Males Females Persons	ersons	Males F	Males Females Persons	ersons
							18	— 24 years	Z.									
Excellent	126.9	121.1	248.0	200.1	149.0	349.1	21.4	15.9	37.3	20.6	8.3	28.9	242.1	173.3	415.4	369.0	294.4	663.4
Fair	24.8	48.0	72.8	45.7	41.5	87.3	12.0	5.6 7.6	21.6	13.3	6.0	193	71.0	57.2	128.2	95.8		201.0
Роог	+3.7	6.7	10.4	* 2.4	* 5.1	9.7	*	*	*	* 2.4	*	* 2.9	* 4.9	6.7	11.6	9.6	13.4	22.0
Total	293.9	414.8	708.7	518.6	4415	1.096	1.58	8.69	152.9	88.1	27.5	115.6	8.689	538.8	1,228.6	983.7	953.6	1,937.3
							25	— 44 years	ars									
Excellent	194.8	351.5	546.3	636.5	537.5	1,174.1	17.4	65.2	142.6	62.1	11.2	73.3	776.1		1,389.9	6.076	965.4	1,936.3
Good	301.0	603.9	904.9	881.9	647.4	1,529.3	127.6	84.2	211.8	104.8	20.1	124.9	1,114.3	751.7	0.998,	1,415.3		4,770.9
Fair	71.6	150.6	222.3	143.0	116.6	259.6	8.97	13.4	40.3	34.6	* 5.2	39.9	204.5		339.7	276.1	285.9	562.0
Poor	19.9	30.4	50.3	15.1	19.8	34.9	* 1.3	*	* 1.7	* 3.9	*	* 5.0	20.3		41.7	40.2	51.7	6.16
Total	587.3	1,136.4	1,723.7	9.929'1	1,321.3	2,997.9	233.2	163.2	396.4	205.5	37.6	243.1	2,1152	1,5222	3,637.4	2,702.5	2,658.6	2,361.1
							45		ars					:				!
Excellent	83.1	155.4	238.4	246.2	198.9	445.2	31.1	27.0	58.1	22.3	8.2	30.5	9662	234.1	533.7	382.7	389.5	772.2
Good	196.5	364.2	560.7	497.4	341.3	838.6	63.9	54.5	118.4	58.1	11.3	4.69	619.4	407.0	1,026.4	816.0	771.2	1,587.1
rair Poor	104.3 46.4	73.5	302.6 119.9	55.3	23.8	79.1	2.1.2 8.1	* 2.6	10.7	51.7 6.2	*1.5	7.8	9.69	27.9	97.5	116.0	101.4	217.5
Total	430.3	791.4	791.4 1,221.7	972.9	682.3	1,655.2	130.3	95.6	225.9	6'111	28.1	146.0	1,221.0	806.0	2,027.1	1,651.3	1,597.4	3,248.7
							65 ye	65 years and over	ver									
Excellent	35.2	78.8	113.9	59.9	63.8	123.7	5.7	10.7	16.5	6.1	*1.3	7.3	71.6	75.9	147.5	106.8	154.7	261.5
Fair	98.3	242.4	340.7	130.6	91.3	221.9	9.0	8. 4.	17.3	6.4	* 2.5 4.2	80.00	146.0	102.0	248.0	244.2	344.5	588.7
Poor	56.1	92.9	149.0	47.1	28.7	75.8	* 3.8	* 2.8	9'9	6 '1 *	* 1.4	* 3.2	52.8	32.9	85.7	108.9	125.7	234.6
Total	316.0	9.969	1,012.6	434.3	345.2	779.4	33.8	39.9	73.8	23.0	8.2	31.3	4912	393.3	884.5	807.1	1.798,1 9.999,1 1.708	1.798,1

TABLE 3.4. PERSONS AGED 18 YEARS AND OVER: ALCOHOL RISK LEVEL(a) BY SELF ASSESSED HEALTH STATUS BY AGE BY SEX
AUSTRALIA, 1989-90
(''000)—continued

									Drank alcohol	cohol					j			
	Did no	Did not drink alcohol	icohol		Low risk		Me	Medium risk		H	High risk		Total j consw	Total persons who consumed alcohol	vho hol		Total	
Self assessed health status	Males	Females	Males Females Persons	Males	Males Females Persons	Persons	Males F	Males Females Persons	Persons	Males F	Males Females Persons	ersons	Males F	Maies Females Persons	Persons	Males	Maies Females Persons	Persons
							Tot	Total (Number)	et) :									
Excellent	439.9	706.8	1,146.7		949.3	2,092.1	135.6	118.9	254.5	111.1	28.9		1,389.4	1,097.1	2,486.6	1,829.3	1,803.9	3,633.3
Good	762.5	1,489.5	2,252.0		1,395.8	3,242.1	256.6	6661	456.5	223.3	47.3			1,643.0	3,969.3	3,088.7	3,132.5	6,221.2
Fair	299.0	639,4	938.4		367.8	861.1	74.9	45.9	117.9	85.6	20.7	106.3	653.8	431.4	4 1,085.2 952.8	952.8	1,070.9	2,023.7
Poor	126.1	203.5	329.5	120.0	77.4	197.4	13.2	8.9	20.1	14.4	* 4.6			88.8	236.5	273.8	292.2	566.0
Total	1,627.4	3,039.2	1,627.4 3,039.2 4,666.7 3,602.	3,602.3	2,790.3	6,392.6	480.4	368.5	848.9	434.5	101.5	535.9	4,517.2	3,260.3	7,777.5 6,144.7		6,299.5 12,444.2	2,444.2
								Per cent										
Excellent	27.0	23.3			34.0	32.7	28.2	32.3	30.0	25.6	28.5	26.1	30.8	33.7	32.0	29.8	28.6	29.2
Good	46.9	49.0	48.3	51.3	50.0	50.7	53.4	54.2	53.8	51.4	46.6	50.5	51.5	50.4	51.0	50.3	49.7	50.0
Fair	18.4	21.0			13.2	13.5	15.6	11.7	13.9	19.7	20.4	19.8	14.5	13.2	14.0	15.5	17.0	16.3
Poor	7.7	6.7			2.8	3.1	2.8	1.9	2.4	3.3	4.5	3.5	33	2.7	3.0	4.5	4.6	4.5 5.
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Derived from consumption reported during the week prior to interview. See Appendix B.

TABLE 3.5. PERSONS AGED 18 YEARS AND OVER: AGE BY NUMBER OF RECENT AND LONG-TERM CONDITIONS BY ALCOHOL RISK LEVEL(a) BY SEX
AUSTRALIA, 1989-90
(Per cent)

			F						Drank alcohol	cohol								
-	Did no	Did not drink alcohol	lohos	7	Low risk		Mec	Medium risk		H	High risk	; 	Total t	Total persons who consumed alcohol	ho lor		Total	
vamper of recent and tong-term illnesses	Males	Males Females Persons	Persons	Males Females		Persons	Males F	Males Females Persons	ersons	Males F	Males Females Persons	ersons	Males F.	Males Females Persons	ersons	Males Females		Persons
							18	18 — 44 years	ars									
Number of recent litnesses None One Two to three Four or more	35.7 33.6 26.1 4.6	19.8 33.1 38.1 9.0	25.6 33.3 33.7 7.4	31.1 35.2 29.2 4.4	15.0 30.9 42.6 11.6	23.9 33.3 35.2 7.6	31.0 34.2 30.5 4.3	14.8 26.8 43.1 15.3	24.1 31.1 35.8 9.0	30.0 33.6 31.2 5.2	16.3 25.9 41.7 16.1	27.5 32.2 33.1 7.2	31.0 34.9 29.6 4.5	15.0 30.2 42.6 12.2	24.2 33.0 35.1 7.7	32.1 34.6 28.7 4.5	17.0 31.5 40.7 10.8	24.7 33.1 34.6 7.6
Number of chronic illnesses None One Two to three Four or more	42.3 30.4 22.7 4.7	35.1 30.4 27.2 7.3	37.7 30.4 25.5 6.4	36.7 33.7 25.4 4.1	29.4 31.6 30.6 8.4	33.5 32.8 27.7 6.0	38.1 34.1 24.2 3.6	26.3 31.7 32.9 9.1	33.1 33.1 27.8 5.9	38.4 32.9 23.0 5.7	25.9 31.3 28.6 14.3	36.1 32.6 24.0 7.2	37.1 33.7 25.0 4.2	28.9 31.6 30.8 8.7	33.6 32.8 27.5 6.1	38.3 32.9 24.5 4.3	31.6 31.1 29.2 8.1	35.0 32.0 26.8 6.2
Total	0.001	0:001	0.001	100.0	100.0	0.001	100.0	0.001	0.001	0.001	0.001	0.001	100.0	100.0	100.0	0.001	0.001	0.001
					}		45 ye	45 years and o	over									
Number of recent illnesses None One Two to three Four or more	16.8 26.1 35.8 21.2	9.4 20.9 41.0 28.8	11.8 22.6 39.3 26.2	19.1 28.0 38.4 14.5	9.8 22.8 42.0 25.4	15.2 25.8 39.9 19.1	19.8 27.8 36.9 15.4	9.3 25.4 43.8 21.6	15.1 26.7 40.0 18.2	23.6 26.3 37.1 12.9	16.1 16.2 44.6 23.2	22.1 24.2 38.7 15.0	19.6 27.8 38.1 14.5	9.9 22.9 42.3 24.9	15.6 25.8 39.8 18.8	18.7 27.3 37.4 16.5	9.6 21.8 41.6 27.0	14,0 24,4 39.6 22.0
Number of chronic illnesses None One Two to three Four or more	9.6 23.5 39.0 27.9	7.1 18.1 43.2 31.6	7.9 19.9 41.8 30.4	9.8 23.1 41.9 25.2	6.6 18.1 45.4 29.9	8.4 21.0 43.4 27.2	11.1 23.6 37.9 27.4	7.9 20.1 43.3 28.7	9.6 22.0 40.4 28.0	9.9 23.5 42.1 24.5	* 24.8 34.8 3.4.3 4.7	9.0 23.8 40.5 26.7	9.9 23.2 41.6 25.3	6.7 18.5 44.8 29.9	8.6 21.3 42.9 27.2	9.8 23.3 40.8 26.1	6.9 18.3 43.9 30.9	8.3 20.7 42.4 28.6
Total	0'001	0.001	0.001	100.0	100.0	0'00I	0.001	0.001	0.001	100.0	0.001	0.001	0.001	0.001	100.0	0.001	0.001	0.001

TABLE 3.5. PERSONS AGED 18 YEARS AND OVER: AGE BY NUMBER OF RECENT AND LONG-TERM CONDITIONS BY ALCOHOL RISK LEVEL(a) BY SEX AUSTRALIA, 1989-90

(Per cent) — continued

			ı						Drank alcohol	cohol								
	Did not	Did not drink alcohol	loho	7	Low risk		Mea	Medium risk		Ш	High risk		Total pa	Total persons who consumed alcohol	07.0		Total	
Number of recent and long-term illnesses	Males F	Males Females Persons	Persons	Males F	Females Persons	Persons	Males Fe	Males Females Persons		Males Fi	Males Females Persons		Males Females Persons	males P.	1	Males Females Persons	males P	ersons
								Tota]						,			:	
Number of recent																		
None	27.0	14.7	0.61	26.5	13.0	20.6	27.2	12.8	20.9	27.9	16.2	25.7	26.7	13.1	21.0	26.8	13.9	20.2
One Two to three	30.2 30.6	39.5	36.4 36.4	32.8 32.8	42.4 42.4	37.0	32.7	26.3 43.4	37.3	31.2 33.1	22.4 42.7	29.6 35.0	32.8	27.5 42.5	30.3 36.9	31.7 32.5	27.3	29.5 36.7
Four or more	12.2	18.7	16.4	8.4	16.7	12.0	8.1	17.6	12.2	7.7	18.6	8.6	8.3	16.8	11.9	9.3	17.7	13.6
Number of chronic illnesses									-									
None	27.3	21.4	23.4	26.2	21.0	23.9	28.9	19.5	24.8	29.1	18.6	27.1	26.8	20.8	24.2	26.9	21.0	23.9
One	27.2	24.4	25.4	29.6	56.6	28.3	30.6	27.4	29.2	59.9	29.0	29.7	29.7	26.8	28.5	29.1	25.6	27.3
Two to three	30.2	35.0	33.3	31.9	36.1	33.7	28.9	36.7	32.3	29.2	30.7	29.5	31.3	36.0	33.3	31.0	35.5	33.3
Four or more	15.3	19.2	17.9	12.3	16.3	14.1	11.7	16.3	13.7	11.8	21.8	13.7	12.2	16.5	14.0	13.0	17.8	15.5
Total	0.001	100.0	0.001	100.0	100.0	100.0	100.0	100.0	100.0	0.001	100.0	100.0	0.001	100.0	100.0	100.0	100.0	100.0

(a) Derived from consumption reported during the week prior to interview. See Appendix B.

TABLE 3.6. AVERAGE NUMBER OF CONDITIONS EXPERIENCED(a): ALCOHOL RISK LEVEL(b) OF PERSONS AGED 18 YEARS AND OVER BY SELECTED CHARACTERISTICS
AUSTRALIA, 1989-90

Sex		_		Drank alc	ohol	<u>.</u>	
Sex	Selected characteristics		Law risk	Medium risk	High rick	consumed	Total
Males							10,00
Females	:= :::	2.2	2.1	2.0	3.0	2.1	3.2
18 - 24							3.8
25 - 44 29 3.0 3.0 2.9 3.0 45 - 64 4.1 3.9 4.0 3.8 3.9 65 and over 5.0 4.9 4.6 4.9 4.9 Country of birth— Australia 3.7 3.4 3.4 3.2 3.4 New Zealand and other Oceania 3.1 3.2 2.7 3.0 3.1 United Kingdom and Ireland 4.1 3.6 3.5 3.2 3.6 Southers Burope 3.2 3.0 3.2 3.0 3.0 Other Europe and U.S.S.R. 3.9 3.4 3.3 2.8 3.4 Middle East 2.9 3.1 *** *** 3.1 Southeast Asia 2.6 2.9 2.2 *4.0 2.9 Northeast/ Southern Asia 2.9 2.9 *2.5 *3.1 2.9 Northeast/ Southern Asia 3.2 3.3 3.2 3.1 2.9 Northeast/ Girll, Indication 3.3	Age group (years) —						
45 — 64 4.1 3.9 4.0 3.8 3.9 65 and over 5.0 4.9 4.6 4.9 4.9 Country of birth — Australia Australia 3.7 3.4 3.4 3.2 3.4 New Zealand and other Oceania 3.1 3.2 2.7 3.0 3.1 United Kingdom and Ireland 4.1 3.6 3.5 3.2 3.6 Southern Europe 3.2 3.0 3.2 3.0 3.0 Other Europe and U.S.R. 3.9 3.4 3.3 2.8 3.4 Middle East 2.9 3.1 ** ** 3.1 Southeast Asia 2.6 2.9 *2.2 *4.0 2.9 Northeast/ Southern Asia 2.9 2.9 *2.5 *3.1 2.9 Northeast/ Southern Asia 3.2 3.3 3.2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3	18 24	2.6	2.7	2.9	2.7	2.8	2.7
65 and over 5.0 4.9 4.6 4.9 4.9 Country of birth— Australia 3.7 3.4 3.4 3.2 3.4 New Zesland and other Oceania 3.1 3.2 2.7 3.0 3.1 United Kingdom and Ireland 4.1 3.6 3.5 3.2 3.6 Southern Europe 3.2 3.0 3.2 3.0 3.0 Other Europe and U.S.S.R. 3.9 3.4 3.3 2.8 3.4 Middle Bast 2.9 3.1 *** *** 3.1 Middle Bast 2.9 3.1 *** *** 3.1 Southeast Asia 2.9 2.9 2.5 *3.1 2.9 Norhear, South and Central America and *** *** *** *** 3.1 3.2 the Caribbean 3.3 3.2 3.9 *3.5 3.3 3.2 3.3 3.2 3.3 Africa (incl. North Africa) 3.2 2.5	25 — 44	2.9	3.0	3.0	2.9	3.0	3.0
Country of birth —	45 — 64	4.1	3.9	4.0	3.8	3.9	3.9
Australia 3.7 3.4 3.4 3.2 3.4 New Zealand and other Oceania 3.1 3.2 2.7 3.0 3.1 United Kingdom and Ireland 4.1 3.6 3.5 3.2 3.6 Southern Europe 3.2 3.0 3.2 3.0 3.2 3.0 3.0 Other Europe and U.S.S.R. 3.9 3.4 3.3 3.2 8 3.4 Middle East 2.9 3.1 **	65 and over	5,0	4.9	4.6	4.9	4.9	5.0
New Zealand and other Oceania 3.1 3.2 2.7 3.0 3.1 1.5	Country of birth						
United Kingdom and Ireland 4.1 3.6 3.5 3.2 3.6 Southern Europe 3.2 3.0 3.2 3.0 3.0 3.0 Other Europe 3.2 3.0 3.2 3.0 3.0 3.0 Other Europe and U.S.S.R. 3.9 3.4 3.3 2.8 3.4 Middle East 2.9 3.1 ** ** ** 3.1 Southeast Asia 2.6 2.9 *2.2 *4.0 2.9 Northeast Southern Asia 2.9 2.9 *2.5 *3.1 2.9 Northeast South and Central America and the Caribbean 3.3 3.2 3.3 ** 5.6 *4.1 3.5 ** **Total overseas born 3.4 3.3 3.3 3.3 3.2 3.3 ** **Total overseas born 3.4 3.3 3.3 3.3 3.2 3.3 ** **Highest post school qualifications — Still at school or never went to school 3.2 2.5 *4.2 ** 2.6 Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 3.3 ** **Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 ** **Certificate/Diploma 3.6 3.6 3.8 3.6 3.6 3.8 3.6 3.6 Other 3.9 3.8 3.7 *2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 3.4 ** **Labour force status(c) — Employed (looking for work) 3.0 3.3 3.1 3.1 3.2 ** **Unemployed (looking for work) 3.0 3.3 3.3 3.1 3.1 3.2 ** **Gross personal annual income(d) — ** **From Supplementation 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3							3.5
Southern Europe and U.S.S.R. 3.2 3.0 3.2 3.0 3.0	New Zealand and other Oceania					3.1	3.1
Other Europe and U.S.S.R. 3.9 3.4 3.3 2.8 3.4 Middle East 2.9 3.1 ** ** 3.1 Southeast Asia 2.6 2.9 *2.2 *4.0 2.9 Northeast/ Southern Asia 2.9 2.9 *2.5 *3.1 2.9 Northeast/ Southern Asia 3.3 3.2 3.3 *3.5 3.3 Northeast/ South and Central America and the Caribbean 3.3 3.2 3.9 *3.5 3.3 Africa (incl. North Africa) 3.2 3.3 *5.6 *4.1 3.5 Total overseas born 3.4 3.3 3.3 3.2 3.3 Highest post school qualifications— *** 2.6 Bachelor degree or higher 3.2 2.5 *4.2 ** 2.6 Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 3.2 Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 2.6 Bachelor degree or higher 3.6 <td>United Kingdom and Ireland</td> <td>4.1</td> <td>3.6</td> <td>3.5</td> <td>3.2</td> <td>3.6</td> <td>3.7</td>	United Kingdom and Ireland	4.1	3.6	3.5	3.2	3.6	3.7
Middle East 2.9 3.1 ** ** 3.1 Southeast Asia 2.6 2.9 *2.2 *4.0 2.9 Northeast/ Southern Asia 2.9 2.9 *2.5 *3.1 2.9 Northeast/ South and Central America and the Caribbean 3.3 3.2 3.9 *3.5 3.3 Africa (incl. North Africa) 3.2 3.3 *5.6 *4.1 3.5 Total overseas born 3.4 3.3 3.3 3.2 3.3 Highest post school qualifications— Still at school or never went to school 3.2 2.5 *4.2 ** 2.6 Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 3.3 Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 2.6 Bachelor degree or higher 3.2 3.5 3.2 3.0 3.1 3.2 2.6 Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 3.2 2.6 4.2 4.2 4.2	Southern Europe	3.2	3.0	3.2	3.0	3.0	3.1
Southeast Asia 2.6 2.9 *2.2 *4.0 2.9	Other Europe and U.S.S.R.	3.9	3.4	3.3	2.8	3.4	3.6
Northeast/Southern Asia 2.9 2.9 *2.5 *3.1 2.9 Northems, South and Central America and the Caribbean 3.3 3.2 3.9 *3.5 3.3 Africa (incl. North Africa) 3.2 3.3 *5.6 *4.1 3.5 Total overseas born 3.4 3.3 3.3 3.3 3.2 3.3 Highest post school qualifications — Still at school or never went to school 3.2 2.5 *4.2 ** 2.6 Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 Certificate/Diploma 3.6 3.6 3.6 3.8 3.6 3.6 Other 3.9 3.8 3.7 *2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 3.4 Labour force status(c) — Employed 3.0 3.0 3.1 3.0 3.1 Lhemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d) — \$0 = 9,999 4.2 4.1 4.0 4.1 4.1 \$0 = 9,999 4.2 4.1 4.0 4.1 4.1 \$0 = 9,999 3.4 3.3 3.5 3.1 3.3 \$10,000 = 19,999 3.4 3.3 3.5 3.1 3.3 \$20,000 = 29,999 3.1 3.1 3.0 2.9 3.0 \$30,000 = 39,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 39,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 39,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 39,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 39,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 30,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 30,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 30,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 30,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 30,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 30,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 30,999 3.1 3.1 3.2 \$30,000 = 30,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 30,999 3.1 3.1 3.3 3.1 3.1 \$30,000 = 30,999 3.1 3.1 3.2 \$30,000 = 30,999 3.1 3.1 3.2 \$30,000 = 30,999 3.1 3.1 3.2 \$30,000 = 30,999 3.1 3.1 3.2 \$30,000 = 30,999 3.1 3.1 3.2 \$30,000 = 30,	Middle East	2.9	3.1	**	**	3.1	2.9
Northern, South and Central America and the Caribbean 3.3 3.2 3.9 *3.5 3.3 Africa (incl. North Africa) 3.2 3.3 *5.6 *4.1 3.5 Total overseas born 3.4 3.3 3.3 3.3 3.2 3.3 Highest post school qualifications— Still at school or never went to school 3.2 2.5 *4.2 ** 2.6 Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 Certificate/Diploma 3.6 3.6 3.8 3.6 3.6 Other 3.9 3.8 3.7 *2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 Labour force status(c)— Employed 3.0 3.0 3.1 3.0 3.1 Unemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d)— \$(0-9)999 4.2 4.1 4.0 4.1 4.1 \$10,000—19,999 3.4 3.3 3.5 3.1 3.3 \$20,000—29,999 3.0 3.1 3.0 2.9 3.0 \$30,000—39,999 3.1 3.1 3.3 3.1 3.1 \$40,000—49,999 3.0 3.2 3.2 3.2 2.9 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.2 \$50,000 or more 3.2	Southeast Asia	2.6	2.9	* 2.2	* 4.0	2.9	2.7
Northern, South and Central America and the Caribbean 3.3 3.2 3.9 *3.5 3.3 Africa (incl. North Africa) 3.2 3.3 *5.6 *4.1 3.5 Total overseas born 3.4 3.3 3.3 3.3 3.2 3.3 Highest post school qualifications— Still at school or never went to school 3.2 2.5 *4.2 ** 2.6 Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 Certificate/Diploma 3.6 3.6 3.8 3.6 3.6 Other 3.9 3.8 3.7 *2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 Labour force status(c)— Employed 3.0 3.0 3.1 3.0 3.1 Unemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.1 4.1 \$10,000 — 19,999 4.2 4.1 4.0 4.1 4.1 \$10,000 — 19,999 3.4 3.3 3.5 3.1 3.3 \$20,000 — 29,999 3.0 3.1 3.0 2.9 3.0 \$30,000 — 39,999 3.1 3.1 3.3 3.1 3.1 \$40,000 — 49,999 3.0 3.1 3.1 3.3 \$40,000 — 49,999 3.0 3.2 3.2 3.2 3.2 \$50,000 or more 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.1 3.2 \$50,000 or more 3.2 3.2 3.2 3.2 3.2 \$50,000 or more 3.2	Northeast/ Southern Asia	2.9	2.9	* 2.5	* 3.1	2.9	2.9
Africa (incl. North Africa) 3.2 3.3 *5.6 *4.1 3.5 Total overseas born 3.4 3.3 3.3 3.3 3.2 3.3 Highest post school qualifications— Still at school or never went to school 3.2 2.5 *4.2 ** 2.6 Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 Certificate/Diploma 3.6 3.6 3.6 3.8 3.6 3.6 Other 3.9 3.8 3.7 *2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 Labour force status(c)— Employed 4.0 Looking for work) 3.0 3.0 3.1 3.1 3.1 3.2 Unemployed (looking for work) 3.0 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d)— \$\(\begin{array}{c} Gross personal annual income(d) —	Northern, South and Central America and						
Africa (incl. North Africa) 3.2 3.3 * 5.6 * 4.1 3.5 Total overseas born 3.4 3.3 3.3 3.2 3.3 Highest post school qualifications— Still at school or never went to school 3.2 2.5 * 4.2 ** 2.6 Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 Certificate/Diploma 3.6 3.6 3.8 3.6 3.6 Other 3.9 3.8 3.7 * 2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 3.4 Labour force status(c)— Employed 3.0 3.1 3.0 3.1 3.2 Employed (looking for work) 3.0 3.3 3.1 3.1 3.2 No in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d)— ** ** ** ** ** SO	the Caribbean	3.3	3.2 -	3.9	* 3.5	3.3	3.3
Highest post school qualifications	Africa (incl. North Africa)			* 5.6	* 4.1		3.4
Still at school or never went to school 3.2 2.5 *4.2 ** 2.6 Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 Certificate/Diploma 3.6 3.6 3.8 3.6 3.6 Other 3.9 3.8 3.7 *2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 3.4 Labour force status(c)— Employed 3.0 3.0 3.1 3.0 3.1 Unemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d)— \$0-9,999 4.2 4.1 4.0 4.1 4.1 \$0-9,999 3.4 3.3 3.5 3.1 3.3 \$20,000 - 29,999 3.0 3.1 3.0 2.9 3.0 \$30,000 - 39,999 3.1 3.1 3.3 3.1 3.1 3.1 <td>Total overseas born</td> <td>3.4</td> <td>3.3</td> <td>3.3</td> <td>3.2</td> <td>3.3</td> <td>3.3</td>	Total overseas born	3.4	3.3	3.3	3.2	3.3	3.3
Bachelor degree or higher 3.2 3.3 3.4 3.3 3.3 Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 Certificate/Diploma 3.6 3.6 3.8 3.6 3.6 Other 3.9 3.8 3.7 *2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 3.4 Labour force status(c)— Employed 3.0 3.0 3.1 3.0 3.1 Unemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d)— \$0-9,999 3.4 3.3 3.5 3.1 3.1 \$10,000—19,999 3.4 3.3 3.5 3.1 3.3 \$20,000—29,999 3.0 3.1 3.0 2.9 3.0 \$30,000—39,999 3.1 3.1 3.3 3.1 3.1 3.1 \$40,000—49,999 3.0 3.2 3.2 2.9 3.2 3.2 3							
Trade/Apprenticeship 3.5 3.2 3.0 3.1 3.2 Certificate/Diploma 3.6 3.6 3.8 3.6 3.6 Other 3.9 3.8 3.7 *2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 3.4 Labour force status(c) — Employed Employed (looking for work) 3.0 3.1 3.0 3.1 Unemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d) — ** </td <td>Still at school or never went to school</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.0</td>	Still at school or never went to school						3.0
Certificate/Diploma 3.6 3.6 3.8 3.6 3.6 Other 3.9 3.8 3.7 *2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 3.4 Labour force status(c) — Employed 3.0 3.0 3.1 3.0 3.1 Unemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d) — **	Bachelor degree or higher						3.3
Other 3.9 3.8 3.7 * 2.7 3.7 No post-school qualification 3.7 3.4 3.3 3.2 3.4 Labour force status(c) — 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.2	Trade/Apprenticeship	3.5	3.2	3.0	3.1	3.2	3.3
No post-school qualification 3.7 3.4 3.3 3.2 3.4 Labour force status(c) — Employed Employed (looking for work) 3.0 3.0 3.1 3.0 3.1 Unemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d) — \$0 — 9,999 4.2 4.1 4.0 4.1 4.1 \$10,000 — 19,999 3.4 3.3 3.5 3.1 3.3 \$20,000 — 29,999 3.0 3.1 3.0 2.9 3.0 \$30,000 — 39,999 3.1 3.1 3.3 3.1 3.1 \$40,000 — 49,999 3.0 3.2 3.2 2.9 3.2 \$50,000 or more 3.2 3.2 3.2 3.1 3.2	Certificate/Diploma					3.6	3.6
Labour force status(c) — Employed 3.0 3.0 3.1 3.0 3.1 Unemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d) — $\$0 - 9,999$ 4.2 4.1 4.0 4.1 4.1 $\$10,000 - 19,999$ 3.4 3.3 3.5 3.1 3.3 $\$20,000 - 29,999$ 3.0 3.1 3.0 2.9 3.0 $\$30,000 - 39,999$ 3.1 3.1 3.3 3.1 3.1 $\$40,000 - 49,999$ 3.0 3.2 3.2 2.9 3.2 $\$50,000$ or more 3.2 3.2 3.2 3.1 3.2	Other					3.7	3.8
Employed 3.0 3.0 3.1 3.0 3.1 Unemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d) — \$0 — 9,999 4.2 4.1 4.0 4.1 4.1 \$10,000 — 19,999 3.4 3.3 3.5 3.1 3.3 \$20,000 — 29,999 3.0 3.1 3.0 2.9 3.0 \$30,000 — 39,999 3.1 3.1 3.3 3.1 3.1 \$40,000 — 49,999 3.0 3.2 3.2 2.9 3.2 \$50,000 or more 3.2 3.2 3.2 3.1 3.2	No post-school qualification	3.7	3.4	3.3	3.2	3.4	3.5
Unemployed (looking for work) 3.0 3.3 3.1 3.1 3.2 Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d) — \$0 — 9,999 4.2 4.1 4.0 4.1 4.1 \$10,000 — 19,999 3.4 3.3 3.5 3.1 3.3 \$20,000 — 29,999 3.0 3.1 3.0 2.9 3.0 \$30,000 — 39,999 3.1 3.1 3.3 3.1 3.1 \$40,000 — 49,999 3.0 3.2 3.2 2.9 3.2 \$50,000 or more 3.2 3.2 3.2 3.1 3.2							
Not in labour force 3.7 3.9 4.0 4.3 3.9 Gross personal annual income(d) — \$0 — 9,999 4.2 4.1 4.0 4.1 4.1 \$10,000 — 19,999 3.4 3.3 3.5 3.1 3.3 \$20,000 — 29,999 3.0 3.1 3.0 2.9 3.0 \$30,000 — 39,999 3.1 3.1 3.1 3.1 3.1 \$40,000 — 49,999 3.0 3.2 3.2 2.9 3.2 \$50,000 or more 3.2 3.2 3.2 3.1 3.2							3.0
Gross personal annual income(d) — \$0 — 9,999				3.1	3.1	3.2	3.1
\$0 — 9,999	Not in labour force	3.7	3.9	4.0	4.3	3.9	3.8
\$10,000 — 19,999							
\$20,000 — 29,999	· ·						4.1
\$30,000 — 39,999						3.3	3.4
\$40,000 — 49,999 3.0 3.2 3.2 2.9 3.2 \$50,000 or more 3.2 3.2 3.1 3.2					2.9	3.0	3.0
\$50,000 or more 3.2 3.2 3.1 3.2	\$30,000 — 39,999	3.1	3.1	3.3	3.1	3.1	3.1
	\$40,000 49,999	3.0	3.2	3.2	2.9	3.2	3.1
Not stated 3.2 3.3 3.0 2.0 2.2	\$50,000 or more	3.2	3.2	3.2	3.1	3.2	3.2
.normana 3.2 3.3 3.0 3.0 3.3	Not stated	3.2	3.3	3.0	3.0	3.3	3.3
Total 3.6 3.4 3.4 3.2 3.4	Total	3.6	3.4	3.4	3.2	3.4	3.5

⁽a) Reported as recent and/or long-term conditions. (b) Derived from consumption reported during the week prior to interview. See Appendix B. (c) Persons 18 to 64 years only. (d) Persons 18 years and over who reported a source of income.

TABLE 3.7. PERSONS AGED 18 YEARS AND OVER : ALCOHOL RISK LEVEL(a) BY SELECTED CONDITIONS REPORTED(b) BY AGE AND SEX AUSTRALIA, 1989-90 (Per cent)

	!		Drank alcohol	joi				
	10.50 p. s. 4.00 d.					1	Total	
Type of condition reported	alcohol	Low risk	Medium risk	High risk	Total who consumed alcohol	Males	Females	Persons
			18 — 4	— 44 уеатз				
No illness	48.4	44.8	44.4	48.1	45.0	52.7	39.4	46.1
Neoplasms	1.1	1.1	1.1	80	Ξ	80	14	Ξ
Gout	0.4	0.5	1.4	2.0	<u> </u>	-	1:1	1.1
Diabetes mellitus	0.7	0.4	0.3	*		0.4	1 y	00
Obesity	0.6	0.3	*	*	0.2		90) 6
High cholesterol	1.1	1.5	1.6	1.9	1.6	· ~	<u> </u>	7
Nerves, tension,								•
nervousness,								
emotional problems	2.8	2.0	2.3	1.7	2.0	1.6	30	23
Depression	0.8	0.4	0.4	0.4	4.0	03) ×	3
Ilypertension	2.8	4.2	3.0	3.8	2.5	2.7	9.6	2.00
Heart disease	0.5	0,4	*	0.5	4.0	i C) ¥7	0.40
Bronchitis, emphysema	2.4	2,7	2.7	3,9	2.8	2.2	3.5	, C
Asthma	6.9	7.1	8.2	8.7	7.3	59	70	(i)
Ulcer	1.3	1.3	0.7	2.9	(e)	1.7	2	- -
Other diseases of the						•	2	3
digestive system	3.8	4.0	6. 5.	4.1	3.9	ابرا الم	4.2	30
Kidney diseases	1.2	0.8	0.7	0.8	30 C	90	2.5	000
Arthritis	4.8	5.0	4.1	6.3	5.0	4.6		40
Disorders of the					*	•	7	?
intervertebral disc	2.3	2.8	3.5	3.9	3.0	3.2	2.3	200
Backtrouble							ì	Š
(unspecified)	7.6	13.0	14.9	14.8	13.3	12.9	11.3	12.1
Total(c)	100.0	0'001	100.0	100.0	0.001	0.001	0.001	0.001

TABLE 3.7. PERSONS AGED 18 YEARS AND OVER: ALCOHOL RISK LEVEL(a) BY SELECTED CONDITIONS REPORTED(b) BY AGE AND SEX AUSTRALIA, 1989-90

(Per cent)—continued

Type of condition reported								
Type of condition reported	Did not drink				Total who		Total	
	alcohoi	Low risk	Medium risk	High rusk	consumed alcohol	Males	Females	Persons
			45 years and over	and over				
No illness	16.5	20.1	21.3	25.9	20.6	23.7	14.3	18.8
Neoplasms	5.7	ķ	5.7	7.9	5.7	6.3	\$5 53	5.7
Gout	2.6	3.8	7.1	8.9	4.5	6.1	1.3	3.6
Diabetes mellitus	5.6	2.6	1.5	1.6	2.4	4.2	3.5	3.8
Obesity	0.5	0.4	*	#	0.4	0.3	9.0	0.4
High cholesterol	6.4	6.7	5.9	3.7	6.4	5.2	7.4	6.4
Nerves, tension,								
nervousness,				-				
emotional problems	7.4	2.0	5,4	5.1	5.0	4.0	7.9	0.9
Depression	1.7	=	9,0	6.0	0.1	1.0	1.6	1.3
Hypertension	30.1	22.7	24.9	25.1	3.0	22.3	29.6	26.1
Heart disease	6.6	7.0	3.9	3.8	5.4	8.9	7.1	8.0
Bronchitis, emphysema	5.5	5.6	0.9	7.9	ဆက်	6.2	5.2	5.6
Asthma	6.3	5.4	5.9	6.4	5.5	5.3	6.3	5.8
Ulcer	4.6	4.0	5.3	5.8	4.2	5.1	3.7	4.4
Other diseases of the								
digestive system	9.6	8.1	6.5	8.0	7.9	1.7	5.6	8.6
Kidney discases	2.3	2.1	1.8	0.9	2.0	2.2	2.0	2.1
Arthritis	34.1	28.2	25.1	22.4	27.5	23.6	36.6	30.4
Disorders of the								
intervertebral disc	4.5	5.7	6.3	3.6	5.7	6.3	4.2	5.2
Backtrouble								
(unspecified)	10.3	13.2	13.0	16.4	13.4	13.7	10.6	12.0
Total(c)	0.001	100.0	100.0	100.0	0.001	0.001	100.0	0.001

TABLE 3.7. PERSONS AGED 18 YEARS AND OVER : ALCOHOL RISK LEVEL(a) BY SELECTED CONDITIONS REPORTED(b) BY AGE AND SEX AUSTRALIA, 1989-90

(Per cent)—continued

Persons 34.8 3.8 12.3 3.9 3.9 2.6 2.6 2.6 5.8 1.4 15.5 3.0 1.9 0.4 3.5 0.001 30 12.1 5.1 1.1 14.1 3.3 4.0 7.2 2.1 6.5 1.5 18.6 11.0 100.0 Females 3.0 0.7 1.8 0.6 3.8 28.7 3.1 Total 3.0 1.9 0.2 3.2 3.2 2.6 0.6 3.8 3.8 3.0 3.0 3.0 100.0 Males 5.2 1.3 12.2 13.2 4.5 Total who 2.8 2.1 1.1 0.3 3.4 3.1 0.6 10.2 2.7 3.9 6.6 6.6 5.4 1.2 4.6 13.4 100.0 consumed alcohol 4.0 High risk 3.1 4.3 0.6 0.2 2.5 2.9 0.5 10.8 1.6 5.2 8.0 8.0 3.9 5.4 0.8 11.6 100.0 15.3 Total Drank alcohol 3.4 0.5 10.7 1.5 3.9 7.4 2.3 4.6 1.1 11.5 <u>자</u> 100.0 2.8 3.4 0.7 ** 3, Medium risk 35.4 2.8 1.8 1.2 0.3 3.5 5.5 1.3 13.8 3.1 0.7 10.1 2.9 3.8 6.4 6.4 100.0 Lowrisk 13.1 5.0 1.3 15.9 5.0 3.9 6.6 6.6 Did not drink 3.3 1.4 3.1 0.5 3.6 100.0 alcohol 6.5 1.7 18.8 10.0 33.1 3.4 Type of condition reported Bronchitis, emphysema Other diseases of the emotional problems intervertebral disc Diabetes mellitus digestive system High cholesterot Nerves, tension, Kidney diseases Disorders of the (unspecified) nervousness, Hypertension Heart disease Neoplasms Backtrouble Depression No illness Arthritis Asthma Total(c) Obesity Ulcer

(a) Derived from consumption reported during the week prior to interview. See Appendix B. (b) Recent and/or long-term conditions. Each person may have reported more than one condition. (c) Selected conditions only are shown and therefore components do not add to totals.

TABLE 3.8. AVERAGE NUMBER OF CONDITIONS EXPERIENCED(a): PERSONS AGED 18 YEARS AND OVER BY AGE BY SEX BY PERIOD SINCE LAST CONSUMED ALCOHOL AUSTRALIA, 1989-90

4	n I week or less	More than 1 week to less than I month ago	than 3 months	3 months to less than 12 months	12 months or more ago	Never	Total
Age group (years)	1 Week OF less	1 month ago	ago	ago	more ago	146.461	70141
			Males				
18 — 24	2.4	2.3	2.1	2.3	2.2	2.0	2.3
25 — 44	2.7	2.7	2.7	2.8	2.8	2.4	2.7
45 — 64	3.6	3.6	3.6	3.9	4.1	3.4	3.6
65 and over	4.8	4.6	4.9	4.9	5.0	4.5	4.8
Total	3.1	3.0	3.1	3.4	3.8	3.0	3.2
			Females				
18 — 24	3.2	3.1	2.9	3.0	2.9	2.6	3.1
25 — 44	3.4	3.3	3.2	3.2	3.1	2.6	3.2
45 — 64	4.3	4.3	4.4	4.3	4.4	4.0	4.3
65 and over	5.1	5.2	5.0	5.0	5.3	5.0	5.1
Total	3.8	3.8	3.7	3 .8	4.1	3.8	3.8
			Persons				
$\overline{18-24}$	2.8	2.7	2.6	2.7	2.6	2.3	2.7
25 44	3.0	3.0	3.0	3.0	3.0	2.6	3.0
45 — 64	3.9	4.0	4.1	4.2	4.3	3.8	3.9
65 and over	4.9	5.0	5.0	5.0	5.2	4.9	5.0
Total	3.4	3.5	3.5	3.6	4.0	3.6	3.5

⁽a) Recent and/or long-term conditions.

TABLE 3.9. PERSONS AGED 18 YEARS AND OVER : ALCOHOL RISK LEVEL(a) BODY MASS BY SEX BY AGE AUSTRALIA, 1989-90
(Per cent)

									Drank alcohol	cohol								
	Didno	Did not drink alcohol	lohos	7	Low risk		Mea	Medium risk	! !	H	High risk	1	Total p	Total persons who consumed alcoho <u>l</u>	04		Total	
Body mass	Males	Males Fernates Persons	Persons	Males F	Females	Persons	Males F	Males Females Persons	ersons	Males Fenales		Persons	Males Females		Persons	Males F	Males Females Persons	ersons
							81	- 24 years	ars.									
Underweight	15.4	32.3	25.3	14.0	31.2	21.9	6.8	24.8	16.2	7.7	23.0	11.3	12.6	30.0	20.2	13.4	31.0	22.1
Acceptable weight	55.8	44.1	49.0	58.1	51.6	55.1	62.1	57.9	60.2	49.2	59.5	51.7	57.4	52.8	55.4	56.9	49.0	53.0
Overweight	18.2	12.8	15.0	20.4	8.6	14.9	22.0	47.7	15.5	35.0	9.6 *	29.0	22.4	8.5	16.3	21.2	10.4	15.9
Obese	4.4	4.6	4.5	3.7	3.6	3.6	* 2.3	#	* 1.8	*2.7	*	* 2.6	3,4	3.2	3.3	3.7	3.9	3.7
Not available	6.1	6.3	6.2	3.9	5.1	5.5	* 4.8	8.2	6.4	* 5.4	* 5.5	5. 4.	4.2	5.5	8.8	4 <u>1</u> 86	30 30	5.3
Total	0.001	100.0	100.0	100.0	0.001	0.001	0.001	100.0	0.001	0'001	0.001	0.001	0'001	0'001	0.001	100.0	0.001	0.001
							25	— 44 years	212									
Underweight	6.7	18.3	14.3	4.6	19.2	11.0	3.6	17.1	9.2	5.5	* 14.3	6.9	4.6	18.8	10.5	5.0	18.6	11.8
Acceptable weight	47.4	47.7	47.6	50.7	55.5	52.8	45.8	8.19	52.4	46.5	55.3	47.9	49.7	56.2	52.4	49.2	52.5	50.9
Overweight	32.4	19.0	23.6	36.1	16.6	27.5	38.3	13.4	28.1	37.2	19.8	34.5	36.4	16.3	28.0	35.5	17.5	56.6
Obese	10.7	10.8	10.8	7.0	6.2	6.7	11.2	8.4	9.8	80 80	* 6.4	8,5	7.7	0.9	7.0	8,3	 	8.2
Not available	2.8	4.2	3.7	1.6	2.5	2.0	* 1.1	* 2.9	1.8	6.1 *	* 4.2	2.2	1.6	5.6	2.0	1.9	3.3	2.6
Total	100.0	0:001	0.001	0.001	100.0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
							45	— 64 years	ars					,				
Underweight	5.1	9.0	1.7	2.5	9.0	5.2	*3.6	8.0	5.5	*44	* 13.7	6.2	2.8	9.0	5.3	3.4	0.6	6.2
Acceptable weight	40.6	39.4	39.8	41.3	51.3	45.4	39.0	56.5	46.4	38.0	52.3	40.7	40.7	51.9	45.2	40.7	45.7	43.2
Overweight	39.4	30.1	33.4	44.1	27.3	37.2	46.0	28.0	38.4	43.3	23.5	39.5	44.2	27.2	37.5	43.0	28.7	35.9
Opese	12.4	17.3	15.6	10.3	10.4	10.3	10.0	7.0	∞ . ∞ .	12.1	6.9 *	1.1	10.5	90 (90 (10.2	0.11	13.5	12.2
Not available	2.4	4.2	3.6	 8:	2.1	9.1	T	¥ ¥	60 *	* 5.3	*	£ 5.5 *	1.8	7.0	×.	1.9	3.1	2.5
Total	0.001	100.0	0.001	0.001	100.0	0.001	0.001	0.001	100.0	100.0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
							65 yr	years and o	over									
Underweight Accentable weight	8.3 7.44	13.1	11.6	6.7	14.5	10.2	* 5.7 43.8	19.0	12.9	37.8	**	* 7.5 40.8	20.05 20.05	15.0	10.3	7.2	13.8	11.0
Overweight	34.0	25.3	28.0	37.3	24.9	31.8	42.4	16.9	28.6	40.6	* 19.6	35.1	37.8	24.0	31.7	36.3	24.8	29.7
Obese Not available	∞ 4 ₹ ₹	10.8	10.1 8.4	7.0	7.7	7.3	* 6.3	*7.3 *9.5	* 6.9 * 6.0	* 13.3	* *	* 10.7 * 6.0	7.2	7.6 5.7	3.4	7.7	9.7 8.5	8.8
Total	0.001	0.001	0.001	100.0	100.0	0.001	0'001	100.0	100.0	100.0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

TABLE 3.9. PERSONS AGED 18 YEARS AND OVER : ALCOHOL RISK LEVEL(a) BODY MASS BY SEX BY AGE
AUSTRALIA, 1989-90
(Per cent)—continued

Drank alcohol

	Did no	Did not drink alcohol	ohos	7	Low risk		Mer	Medium risk		H	High risk		Total ,	Total persons who consumed alcohol	ho to!	İ	Total	
Body mass	Males	Females	Persons	Males Females Persons Males Females Persons Males Females Persons Males Females Persons Males Females Persons	emales	Persons	Males F	emales I	ersons	Males F	emales 1	ersons	Males F	emales F	ersons	Males F	emales F	ersons
								Total										
Underweight	8.2	16.6	13.7	5.7	18.0	11.0	4.7	16.4	8.6	5.6	16.6	7.7	5.5	17.8	10.7	6.2	17.2	11.8
Acceptable weight	46.6	43.4	44.5	48.8	52.9	50.6	46.7	58.1	51.6	44.3	55.1	46.3	48.1	53.6	50.4	47.7	48.7	48.2
Overweight	32.0	22.5	25.8	36.1	19.0	28.6	37.9	16.5	28.6	38.6	18.0	34.7	36.5	18.7	29.0	35.3	20.5	27.8
Obese	9.6	11.7	10.9	7.4	7.0	7.2	0.6	5.0	7.3	8.7	* 5.2	8.0	7.7	6.7	7.3	8.2	9.1	8.7
Not available	3.6	5.8	5.1	2.0	3.1	2.5	1.8	4.0	2.8	2.8	* 5.1	3.2	2.1	3.3	2.6	2.5	4.5	3.5
Total	100.0	100.0 100.0	100.0	100.0	0'001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	0.001	100.0	100.0	100.0	100.0
(a) Derived from consumption reported during the week prior to interview. See Appendix B.	tion reported d	wing the w	reck prior t	o interview	See Appe	ndix B.			-			•						

TABLE 3.10, AVERAGE NUMBER OF CONDITIONS EXPERIENCED(a): PERSONS AGED 45 AND OVER WHO DRANK ALCOHOL BY NUMBER OF DAYS ON WHICH
ALCOHOL CONSUMED(b) BY QUANTITY CONSUMED(c) BY SEX
AUSTRALIA, 1989-90

Sex	l day	2 days	3 days	4 days	5 days	6 days	7 days	Total
			1 to less	1 to less than 25 ml				
Males	4.1	4.0	4.2	4.0	4.1	4.1	4.0	4.1
Females	4.6	4.6	4.9	8.4	4.9	4.5	4.6	4.7
Persons	439.6	434.6	455.9	442.6	446.2	430.5	431.2	438.0
			25 to less	25 to less than 50 ml				
Males	3.7	3.9	3.8	8.50 0.00	3.9	2.4	4.0	3.9
CHIECO	ĵ	ř	9	ć:i	Ý.	o. ,	ĵ.	;
Persons	411.3	412.2	396.7	384.6	400.7	439.0	418.0	4123
			50 to less	50 to less than 75 ml				
Males	3.5	3.7	3.5	3.6	3.8	4.0	3,9	3.8
Females	4,0	4.3	3.8	* 3.2	*3.5	9 .6.6	4.5	4.2
Persons	366.2	382.6	355.0	356.0	379.3	428.7	400.4	387.5
-			75 ml	75 ml or more				
Males	3.3	3.7	3.4	3.2	4.2	4.0	3.8	3.7
Females	* 4.0	4.0	* 2.0	*	*7.3	* 4.5	4.8	4.4
Persons	339.7	371.6	324.6	321.0	451.0	401.5	384.4	372.6
			Ţ	Total				
Males Fenales	3.9 4.6	3.9	3.9	3.8	4,0	4.1 7.4	4.0	4.0
Persons	424.6	418.2	419.7	400.5	424.4	429.6	417.3	432.0
						anti-		

(a) Recent and/or long-term conditions experienced. (b) Number of days consumed alcohol in the week prior to interview. (c) Average daily consumption in reference week.

EXERCISE

CHARACTERISTICS OF PERSONS WHO EXERCISED

Results of the survey showed that 35.8 per cent of adult Australians did not exercise, 32.2 per cent engaged in a low level of exercise, 16.6 per cent engaged in a medium level of exercise and 15.4 per cent engaged in a high level of exercise in the two weeks prior to interview. Exercise level was derived from reported frequency, intensity and duration of exercise undertaken for sport, recreation or fitness during that two week period (see Appendix B).

These proportions differed by population group, as shown in Table 4.1. The proportions of males and females who exercised were similar but males were more likely to engage in high levels of exercise (19.7%) than females (11.2%). Persons in younger age groups were more likely to have exercised and also to have engaged in high levels of exercise. For example, 74.7 per cent of persons aged 18 to 24 years reported exercising in the two weeks prior to interview compared with 58.8 per cent of persons aged 45 years and over. Among males aged 18 to 24 years, 31.6 per cent engaged in high levels of exercise (Table 4.2).

Exercise level differed by birthplace, with persons born in Southern Europe and Asia reporting lower than average levels of exercise and American born persons reporting higher than average levels. Exercise was more common among people whose highest qualification was a bachelor degree or higher (78.6%) than those with no post-school qualification (60.1%). Exercise level also varied by labour force status and gross personal annual income.

SELF ASSESSED HEALTH STATUS

Overall most adult Australians believed they were in good or excellent health, with similar proportions being recorded for both males and females but differing by exercise level. The proportion of persons who believed their health status to be excellent increased as exercise levels increased. For example, 40.1 per cent of people who engaged in high levels of exercise believed their health status to be excellent compared with 23.1 per cent of those who did not exercise. This pattern was the same for both males and females and was exhibited across all age groups, being particularly pronounced among persons in older age groups (Table 4.3).

ILLNESS CONDITIONS

Number of conditions reported

Results of the survey show little association between the prevalence of illness and the level of exercise. The proportion of people with one or more long-term conditions who reported low levels of exercise (78.1%) was only slightly above that of people who reported high levels of exercise (72.3%). Equivalent proportions of people reporting one or more recent illnesses were 82.5 per cent and 76.8 per cent respectively. This pattern was similar across age groups. Proportionally fewer people who did no exercise reported recent and/or long-term conditions than those who reported low exercise levels.

Overall, persons who engaged in low levels of exercise displayed a slightly higher average number of conditions (recent and long-term combined) (3.6) than other exercise level groups, with persons who engaged in high levels of exercise

displaying the lowest (3.3) (see Table 4.5). However, for many of the individual characteristics examined, there was no consistent pattern.

For both males and females, the average number of conditions was similar across exercise level groups, with females having a higher average number of conditions than males. Persons aged 65 years and over who did not exercise or engaged in low levels of exercise had the highest average number of conditions (5.0) of all. Younger age groups reported a lower average number of conditions for all exercise level groups than older age groups.

Types of conditions

There were some differences in the prevalence of certain medical conditions according to exercise level and, as might be expected, these differences were most evident in the older age groups.

As shown in Table 4.6, the prevalence of hypertension was higher among persons aged 45 years and over who did not exercise (26.8%) or engaged in low levels of exercise (27.1%) than those who engaged in high levels of exercise (22.9%). This was particularly the case among persons aged 65 years and over, with 38.7 per cent of those who engaged in low levels of exercise reporting hypertension compared with 33.0 per cent of those who engaged in high levels of exercise (Chart 4.1). The prevalence of hypertension among males in all exercise level groups was lower than for females (Table 4.6).

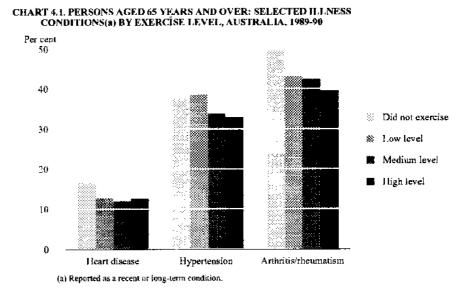


Chart 4.1 also shows differences in the prevalence of heart disease between exercise level groups. For persons aged 65 years and over, the prevalence of heart disease was highest among those who did no exercise (16.7%). This compares with 12.0 per cent of those engaged in medium levels of exercise. Females in this age group who did not exercise were almost twice as likely to report heart disease than those who engaged in high levels of exercise (15.9% and 8.3% respectively). In general, the prevalence of heart disease was higher for males than for females, particularly in the high exercise level group (Table 4.6).

Proportionally fewer persons aged 65 years and over who engaged in high levels of exercise reported arthritis or rheumatism (39.5%) than those who did no exercise (50.3%) (Chart 4.1). This was the case for both males and females, with the

prevalence of arthritis or rheumatism being higher among females than males in all exercise level groups (see also Table 4.6).

EXERCISE PATTERNS

Information was also collected in the survey relating to frequency and duration of exercise for each type of exercise and from this, average duration of each exercise session was calculated. Analysis of the data showed that, in general, there was a stronger and more consistent association between average duration of exercise and various measures of health status than was the case with frequency of exercise.

In most cases, persons who spent more time on average for each exercise session were more likely to report better health, regardless of the frequency of such exercise sessions. Differences were particularly pronounced among persons who reported moderate exercise. For example, 37.6 per cent of persons whose average duration of each session of moderate exercise was 30 minutes to less than 60 minutes believed their health status to be excellent compared with 28.7 per cent of those whose average duration was less than 15 minutes (Table 4.7).

As shown in Table 4.8, 22.4 per cent of persons whose average duration of each moderate exercise session was one hour or more reported no recent illnesses compared with just 12.3 per cent of those whose average duration was less than 15 minutes. A similar pattern was found in relation to long-term illness. This overall trend was also noticeable with average number of conditions (recent and long-term combined). Lower proportions of people whose average duration of exercise was one hour or more reported two or more recent or long-term conditions than those who exercised on average for shorter periods.

Chart 4.2 shows differences in the prevalence of certain medical conditions according to average duration of each session of moderate exercise.

Per cent 20

15

10

11

12

13

14

15 to <30 mins 30 to <60 mins 1 hour or more

CHART 4.2. PERSONS WHO REPORTED MODERATE EXERCISE: SELECTED ILLNESS CONDITIONS(2) BY AVERAGE DURATION OF EACH EXERCISE

(a) Reported as a recent and/or long-term condition.

SUMMARY

Of Australians aged 18 years and over, more than one-third had not exercised in the two weeks prior to interview. The majority of adult Australians believed themselves to be in good or excellent health regardless of the level of exercise undertaken but persons who engaged in high levels of exercise were more likely to rate their health as excellent than persons who did not exercise.

The data on medical conditions appears to partially support this view. Persons who did not exercise experienced higher rates of hypertension, heart disease and arthritis/rheumatism compared with persons who engaged in higher levels of exercise. However, in most age groups, proportionally fewer persons who did not exercise reported experiencing any illness conditions.

The average duration of each exercise session appears to have some effect on health (or perceived health), particularly in the case of moderate exercise. Persons who spent more time on average for each exercise session were more likely to report excellent health and less likely to report experiencing any illness conditions.

TABLE 4.1. PERSONS AGED 18 YEARS AND OVER: EXERCISE LEVEL(a) BY SELECTED CHARACTERISTICS AUSTRALIA, 1989-90

			('000)					Per cent		
-	Did not	Low exercise	Medium exercise	High exercise		Did not	Low exercise	Medium exercise	High exercise	T
Selected characteristics	exercise	level	level	level	Total	exercise	level	level	level	Total
Sex—										
Viales	2,173.3	1,717.4	1,042.1	1,211.9	6,144.7	35.4	27.9	17.0	19.7	100.0
remales	2,280.7	2,289.2	1,024.5	705.1	6,299.5	36.2	36.3	16.3	11.2	100.0
Age group (years)						95.0	217	10.1	240	100.0
8 24	490.0	613.6	369.7	464.0	1,937.3	25.3	31.7	19.1	24.0 14.9	100.0
±5 44	1,846.2	1,807.7	906.7	800.5	5,361.1	34.4	33.7	16.9	12.5	100.0
15 64	1,318.0	1,012.5	511.9	406.4	3,248.7	40.6	31.2	15.8 14.7	13.0	100.0
65 and over	799.8	572.8	278.3	246.1	1,897.1	42.2	30.2	14.7	15.0	100.0
Birthplace —		22512	4 507 7	1 420 1	0.020.7	24.0	32.7	17.0	16.3	100.0
Australia	3,077.7	2,954.2	1,537.7	1,470.1	9,039.7	34.0	32.1	17.0	10.5	Ittou
New Zealand and other		22.0	£1.0	40.0	277.0	32.0	32.1	18.5	17.4	100.0
Oceania United Kingdom and	88.5	88.9	51.2	48.2	276.9					
Ireland	373.7	391.1	217.0	186.7	1,168.6	32.0	33.5	18.6	16.0	100.0
Southern Europe	398.7	177.1	73.7	59.0	708.5	56.3	25.0	10.4	8.3	100.6
Western Europe	93.4	78.9	42.5	37.4	252.3	37.0	31.3	16.9	14.8	100.0
Other Europe and										
U.S.S.R.	73.2	62.4	28.1	27.6	191.3	38.3	32.6	14.7	14.4	100.0
Middle East	75.9	43.1	19.3	12.4	150.6	50.4	28.6	12.8	8.2	100.0
Southeast Asia Northeast/Southern	121.9	81.5	35.1	23.4	261.9	46.5	31.1	13.4	9.0	100.0
Asia	93.7	68.9	34.0	21.5	218.1	42.9	31.6	15.6	9.9	100.4
Northern, South and	75.1	00.7	30							
Central America and										
the Caribbean	31.3	35.0	20.0	17.2	103.5	30.3	33.8	19.3	16.6	100.4
Africa (incl. North	2210									
Africa)	26.1	25.3	8.0	13.5	72.8	35.8	34.8	10.9	18.5	100.4
Total overseas born	1,376.3	1,052.3	528.9	4 4 7.0	3,40 4 .5	40.4	30.9	15.5	13.1	100 s
Highest post school										
qualifications —										
Still at school or never	26.0	27.6	10.6	13.4	88.5	41.7	31.1	12.0	15.1	100.
went to school	36.9	27.0	10.0	15.4	66.5	• • • • • • • • • • • • • • • • • • • •	51.2	12.15		
Bachelor degree or	235.6	408.4	252.0	205.4	1,101.5	21.4	37.1	22.9	18.6	100.
higher	678.5	504.7	284.0	337.6	1,804.9	37.6	28.0	15.7	18.7	100.
Trade/Apprenticeship	752.0	923.7	465.4	391.7	2,532.9	29.7	36.5	18.4	15.5	100.
Certificate/Diploma	40.3	39.5	20.3	20.7	120.8	33.3	32.7	16.8	17.1	100.
Other	40.5	27.2	200	20.1	12010					
No post-school qualification	2,710.6	2,102.6	1,034.2	948.2	6,795.6	39.9	30.9	15.2	14.0	100.
Labour force										
status(b) —										100
Employed	2,679.7	2,430.5	1,285.8	1,219.3	7,615.3	35.2	31.9	16.9	16.0	100.
Unemployed (looking					4.	.	c= -	•••	2	100
for work)	156.2	181.8	106.5	122.2	566.8	27.6	32.1	18.8	21.6	100.
Not in labour force	818.2	821.5	396.0	329.4	2,365.1	34.6	34.7	16.7	13.9	100.
Gross personal annual										
income(c) —	1 407 5	1,268.7	607.8	515.2	3,819.2	37.4	33.2	15.9	13.5	100
\$0 9,999	1,427.5 1,021.8	878.9	429.4	388.0	2,718.1	37.6	32.3	15.8	14.3	100
\$10,000 — 19,999	1,021.8 874.8		416.0	413.3	2,454.9	35.6	30.6	16.9	16.8	100
\$20,000 — 29,999		417.9	236.7	235.0	1,296.4	31.4	32.2	18.3	18.1	100
\$30,000 — 39,999	406.8		89.1	82.2	492.8	32.2	33.0	18.1	16.7	100
\$40,000 — 49,999	158.8	162.7	102.3	103.9	503.3	26.2	32.8	20.3	20.6	100
\$50,000 or more	132.0 186.8	165.1 125.8	68.4	60.6	441.6	42.3	28.5	15.5	13.7	100
Not stated	190.9		00.4							
Total	4,454.0	4,006.6	2,066.6	1,917.0	12,444.2	35.8	32.2	16.6	15.4	100.

⁽a) Derived from frequency, duration and intensity of exercise reported in the two weeks prior to interview; see Appendix B. (b) Persons 18 to 64 years only. (c) Persons 18 years and over who reported a source of income.

TABLE 4.2. PERSONS AGED 18 YEARS AND OVER: EXERCISE LEVEL(a) BY AGE BY SEX AUSTRALIA, 1989-90

			('000)					Per cent		
Age group (years)	Did not exercise	Low exercise level	Medium exercise level	High exercise level	Total	Did not exercise	Low exercise level	Medium exercise level	High exercise level	Total
				Male	·¢					
18 — 24	238.4	254.3	179.9	311.0	983.7	24.2	25.8	18.3	31.6	100.0
25 — 44	924.1	800.3	462.4	515.7	2,702.5	34.2	29.6	17.1	19.1	100.0
45 — 64	712.9	444.7	262.3	231.5	1,651.3	43.2	26.9	15.9	14.0	100.0
65 and over	297.9	218.1	137.4	153.6	807.1	36.9	27.0	17.0	19.0	100.0
Total	2,173.3	1,717.4	1,042.1	1,211.9	6,144.7	35.4	27.9	17.0	19.7	100.0
				Fema	les					
18-24	251.5	359.3	189.8	153.0	953.6	26.4	37.7	19.9	16.0	100.0
25 — 44	922.1	1,007.4	444.3	284.8	2,658.6	34.7	37.9	16.7	10.7	100.0
45 — 64	605.1	567.8	249.6	174.9	1,597.4	37.9	35.5	15.6	10.9	100,0
65 and over	501.9	354.7	140.8	92.5	1,089.9	46 .I	32.5	12.9	8.5	100.0
Total	2,280.7	2,289.2	1,024.5	705.1	6,299.5	36.2	36.3	16.3	11.2	100.0
				Perso	ns					
18 — 24	490.0	613.6	369.7	464.0	1,937.3	25.3	31.7	19.1	24.0	100.0
25 44	1,846.2	1,807.7	906.7	800.5	5,361.1	34.4	33.7	16.9	14.9	100.0
45 — 64	1,318.0	1,012.5	511.9	406.4	3,248.7	40.6	31.2	15.8	12.5	100.0
65 and over	799.8	572.8	278.3	246.1	1,897.1	42.2	30.2	14.7	13.0	100.0
Total	4,454.0	4,006.6	2,066.6	1,917.0	12,444.2	35.8	32.2	16.6	15.4	100.0

⁽a) Derived from frequency, duration and intensity of exercise reported in the two weeks prior to interview; see Appendix B.

TABLE 43. PERSONS AGED 18 YEARS AND OVER: EXERCISE LEVEL(a) BY SELF ASSESSED HEALTH STATUS BY AGE BY SEX AUSTRALIA, 1989-90

(Per cent)

0.001 0.001 0.001 0.001 100.0 Persons 34.2 54.2 10.4 1.1 36.1 51.7 10.5 1.7 23.8 48.9 20.7 6.7 13.8 42.8 31.0 12.4 29.2 50.0 16.3 4.5 30.9 56.7 11.0 1.4 0.001 36.3 51.0 10.8 1.9 0.001 24.4 48.3 21.0 6.3 14.2 42.7 31.6 11.5 0.001 28.6 49.7 17.0 4.6 0.00 100.0 Females Total Males 37.5 51.9 9.7 0.9 0.001 35.9 52.4 10.2 1.5 100.0 23.2 49.4 20.4 7.0 0.001 13.2 43.0 30.3 13.5 0.001 29.8 50.3 15.5 4.5 0.001 0.001 20.2 48.6 24.4 6.9 90.00 48.3 43.5 7.2 1.0 32.7 46.0 16.8 4.6 0.001 46.0 46.0 25 Persons 43.1 48.9 7.1 0.8 0.001 0.001 High exercise level 48.9 42.7 7.6 0.9 34.4 45.3 16.8 3.5 0.001 0.001 0.001 21.4 48.6 25.1 5.0 0.001 39.8 45.6 12.5 2.2 0.00 Females 49.4 49.4 9.2 1.3 Males 47.9 44.0 6.9 1.1 31.4 46.4 16.8 5.5 19.4 48.6 24.0 8.0 46.3 10.8 2.7 0.001 0.001 0.001 0.00 0.001 44.6 48.7 6.1 0.6 40.4 50.5 8.0 1.1 0.00 37.4 52.9 8.8 0.9 0.001 0:001 27.3 49.7 17.8 5.2 0.001 17.1 47.1 28.3 7.5 0.001 33.5 50.3 13.3 3.0 Persons Medium exercise level 49.2 8.6 1.1 0.001 0.001 0.001 100.0 0.001 17.3 50.7 24.5 7.5 33.0 51.0 13.2 2.8 Fernales 32.1 57.9 8.2 1.8 28.0 49.1 19.1 3.8 65 years and over 24 years 44 years Males 64 years 0.001 39.7 51.6 7.5 1.1 0.001 0.001 100.0 42.9 47.7 9.4 26.6 50.3 16.5 6.6 16.9 43.4 32.1 7.5 34.0 49.5 13.4 3.2 1000 Total 200 4 25 30.6 57.6 11.0 0.8 13.3 46.8 31.0 8.9 100.0 100.0 0.001 0.001 24.3 48.9 20.2 6.7 0.001 28.6 51.9 15.9 3.6 35.1 53.3 10.3 1.3 Persons Low exercise level 100.0 0.001 1000 Females 36.4 52.0 10.4 1.2 0.001 24.9 49.9 19.3 5.9 0.001 28.8 58.8 11.5 0.9 15.4 46.7 31.1 6.7 29.1 51.7 16.0 3.2 Males 0.001 23.4 47.6 21.3 7.7 9.9 46.8 30.8 12.4 0.001 0.001 0.001 27.8 52.2 15.7 4.3 33.2 55.9 10.3 0.5 33.5 55.0 10.1 1.4 0.001 Persons 0.001 29.7 54.2 13.3 2.7 19.3 49.4 23.4 7.9 23.1 49.8 20.1 7.0 100.0 28.0 56.1 13.9 2.0 0.001 0.001 100.0 11.0 36.7 34.1 18.2 Did not exercise 100.0 27.2 57.2 13.7 1.8 19.5 47.3 24.6 8.7 0.001 22.7 48.4 21.1 7.7 Females 0.001 30.0 53.3 13.2 3.5 0.001 0.001 11.2 36.5 35.1 17.3 Males 23.4 51.3 19.1 6.2 100.0 0.001 19.1 51.2 22.4 7.3 28.7 2.4.9 2.3 2.3 29.5 55.1 13.5 2.0 10.7 37.1 32.3 19.9 Self assessed health Excellent Excellent Excellent Excellent Excellent status Good Good Good Potal 500 Poor Total P.00. Total Total Potal P. 201 <u>8</u> Poor Fair Fair Fair Fair

(a) Derived from frequency, duration and intensity of exercise reported in the two weeks prior to interview; see Appendix B.

TABLE 4.4. PERSONS AGED 18 YEARS AND OVER: EXERCISE LEVEL(a) BY NUMBER OF RECENT AND LONG-TERM CONDITIONS BY AGE BY SEX AUSTRALIA, 1989-90
(Per cent)

	Dik	Did not exercise	<i>a</i>	Low	Low exercise level	-20	Mediun	Medium exercise level	ivel	High	High exercise level	El		Total	
Number of recent and fong-term conditions	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
:						18	—44 years								
Number of recent illnesses															
None	34.7	18.4	26.5	29.2	15.3	21.4	32.6	17.2	25.0	31.9	18.7	27.3	32.1	17.0	24.7
One Two to three	3, 5, 0, 8,	33.55 C. D. D. P.F.	34.5	35.7	5.15 2.04 5.04	33.2	33.5 0.05	29.5 41.4	31.5	30.6	29.7 40.4	31.6 34.0	34.b	51.5	33.1
Four or more	4.0	10.2	7.1	4.7	10.6	8.0	4.9	6.11	- 	4.6	11.7	7.1	4.5	10.8	7.6
Number of long-term															
None	40.1	34.1	37.1	34.4	29.9	31.9	38.6	29.7	34.2	40.5	32.5	37.7	38.3	31.6	35.0
One	32.4	30.6	31.5	34.0	31.7	32.7	31.7	31.4	31.6	33.2	29.8	32.0	32.9	31.1	32.0
Two to three	23.4	27.4	25.4	26.4	29.8	28.3	24.9	30.8	27.8	23.2	30.1	25.6	24.5	29.2	26.8
Four or more	4.2	7.8	0.9	5.2	8.5	7.1	4.7	8.1	6.4	3.1	7.5	4.6	43	8.1	6.2
Total	0.001	0.001	100.0	0.001	0.001	100.0	100.0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
						45 yea	45 years and over								
Number of recent															
illnesses															
None	21.7	7.6	15.4	16.0	8.5	11.6	16.7	10.7	13.8	17.7	11.5	15.2	18.7	9.6	14.0
One	29.1	20.9	24.8	24.8	22.5	23.5	26.0	20.9	23.5	28.5	24.3	26.8	27.3	21.8	24.4
Two to three	34.5	40.4	37.6	39.8	42.0	41.0	41.4	44.7	43.0	37.0	40.8	38.5	37.4	41.6	39.6
Four or more	14.7	29.1	22.2	19.5	27.0	23.9	15.9	23.7	19.7	16.9	23.4	19.5	16.5	27.0	22.0
Number of long-term															
conditions	•	i	,	,		!	1	,	1		I	1	1	1	,
None	12.6		ac y	9.9	9.6	6.7	6 7 7	8.0	7.5	x o.	5.	7 :	20. I	6.9	£.80
One	24.7	18.5	21.4	23.2	17.1	19.6	21.9	8.61	20.8	21.3	19.7	20.7	23.3	18.3	20.7
Two to three	38.6	42.7	40.7	42.9	45.9	44.6	41.1	44.1	42.6	42.7	42.2	42.5	40.8	43.9	42.4
Four or more	24.2	31.6	28.1	27.1	30.4	29.0	27.9	30.3	29.1	27.6	30.2	28.6	26.1	30.9	28.6
Total	100.0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0:001	0.001	0.001	0.001	0.001	0.001
Total	0:001	100.0	0.001	0.001	0.001	0.001	0.001	0.001	0:001	0.001	707	0.0		100.0	0.001 0.001

TABLE 4.4. PERSONS AGED 18 YEARS AND OVER: EXERCISE LEVEL(a) BY NUMBER OF RECENT AND LONG-TERM CONDITIONS BY AGE BY SEX

AUSTRALIA, 1989-90

(Per cent)—continued

	Dik	Did not exercise	<i>E</i>	Low	Low exercise level	ا	Mediun	Medium exercise level	vel	High	High exercise level	i i		Total	
Number of recent and long-term conditions	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
						-	Total								
Number of recent illnesses															
None	28.6	14.2	21.2	24.1	12.6	17.5	26.5	14.7	20.7	27.4	16.0	23.2	26.8	13.9	20.2
One	32.5	27.4	29.9	31.5	27.8	29.3	30.6	26.2	28.4	31.5	27.3	30.0	31.7	27.3	29.5
Two to three	29.9	39.1	34.6	34.0	42.4	38.8	33.7	42.7	38.1	32.6	40.6	35.6	32.2	41.1	36.7
Four or more	0.6	19.4	14.3	10.4	17.2	14.3	9.1	16.4	12.7	\$5. \$6.	16.1	11.3	9.3	17.7	13.6
Number of long-term conditions															
None	27.3	21.1	24.1	23.8	20.5	21.9	27.3	20.6	24.0	30.3	23.2	27.7	26.9	21.0	23.9
One	28.8	24.7	26.7	29.8	25.8	27.5	27.9	27.0	27.5	29.4	26.0	28.2	29.1	25.6	27.3
Two to three	30.5	34.8	32.7	32.8	36.3	34.8	31.1	35.9	33.5	29.4	34.7	31.3	31.0	35.5	33.3
Four or more	13.5	19.4	16.5	13.6	17.3	15.8	13.6	16.6	15.1	10.9	16.1	12.8	13.0	17.8	15.5
Total	0.001	0.001	0.001	0.001	0.001	0.001	100.0	0.001	0.001	0.001	0.001	0.001	0'001	0.001	0.001

TABLE 4.5. AVERAGE NUMBER OF CONDITIONS EXPERIENCED(a): EXERCISE LEVEL(b) OF PERSONS AGED 18 YEARS AND OVER BY SELECTED CHARACTERISTICS
AUSTRALIA, 1989-90

			Medium exercise		
Selected characteristics	Did not exercise	Low exercise level	level	High exercise level	Tota
Sex —					
Males	3.1	3.3	3.2	3.1	3.
Females	3.8	3.8	3.7	3.7	3.
remates	2.0	5.0	J.,	5.7	٦.
Age group (years) —		• •	• •		_
18 — 24	2.5	2.8	2.8	2.6	2.
25 — 44	2.9	3.1	3.0	2.9	3.
45 — 64	3.7	4.2	4.0	3.9	3.
65 and over	5.0	5.0	4.8	4.8	5.
Birthplace —					
Australia	3.6	3.6	3.5	3.3	3.
New Zealand and other Oceania	2.8	3.5	3.0	3.0	3.
United Kingdom and Ireland	3.9	3.7	3.6	3.4	3.
Southern Europe	2.9	3.5	3.2	3.3	3.
Western Europe	3.4	3.6	3.6	3.3	3.
Other Europe and U.S.S.R.	3.9	3.6	3.5	3.8	3.
Middle East	2.8	3.2	3.2	2.6	2.
Southeast Asia	2.6	2.7	2.7	2.7	2.
Northeast/Southern Asia	2.7	3.0	3.1	2.9	2.
Northern, South and Central America and					
the Caribbean	3.2	3.3	3.4	3.3	3.
Africa (incl. North Africa)	3.3	- 3.4	4.0	3.3	3.
Total overseas born	3.2	3.5	3.4	3.3	3.
Highest post school qualifications —					
Still at school or never went to school	3.3	3.2	2.6	2.6	3.
Bachelor degree or higher	3.3	3.4	3.3	3.1	3.
Frade/Apprenticeship	3.2	3.3	3.3	3.2	3.
Certificate/Diploma	3.5	3.7	3.6	3.5	3.
Other	3.7	3.9	4.3	3.3 3.1	
Onie: No post-school qualification	3.5	3.7	3.5	3.3	3. 3.
No post-school quantification	5.5	3.1	2.2	J.J	3.
Labour force status(c) —		0.4	• •		_
Employed	2.9	3.2	3.0	2.9	3.
Unemployed (looking for work)	2.9	3.2	3.4	3.1	3.
Not in labour force	3.8	3.9	3.9	3.8	3.
Gross personal annual income(d) —					
\$0 — 9,999	4.2	4.1	4.1	4.0	4.
510,000 — 19,999	3.3	3.5	3.3	3.3	3.
S20,000 — 29,999	2.9	3.2	3.0	2.9	3.
530,000 — 39,999	3.0	3.3	3.1	2.8	3.
\$40,000 49,999	3.0	3.2	3.2	3.1	3
\$50,000 or more	3.2	3.3	3.2	3.1	3.
Not stated	3.2	3.5	3.1	3.0	3.
Total	3.5	3.6	3.5	3.3	3.

⁽a) Reported as recent and/or long-term conditions (b) Derived from frequency, duration and intensity of exercise reported in the two weeks prior to interview: see Appendix B. (c) Persons 18 to 64 years only. (d) Persons 18 years and over who reported a source of income.

TABLE 4.6. PERSONS AGED 18 YEARS AND OVER: EXERCISE LEVEL(a) BY SELECTED CONDITIONS REPORTED(b) BY AGE AND SEX AUSTRALIA, 1989-90 (Per cent)

						Total	
Type of condition reported	Did not exercise	Low exercise level	Medium exercise level	High exercise level	Males	Females	Persons
		18	44 years				
No ilhess	48.0	42.4	45.8	50.2	52.7	39.4	46.1
Neoplasms	6.0	1.2	1.4	0.8	0.8	1.4	1.1
Gout	9.0	9.0	1.0	* 0.4	1.1	* 0.1	9.0
Diabetes mellitus	0.5	0.5	0.4	* 0.3	0.4	0.5	0.5
Obesity	0.3	0.4	* 0.4	* 0.3	* 0.1	9:0	0.3
High cholesterol	1.5	1.6	1.2	1.2	1.8	1.0	1.4
Nerves, tension,							
Italy vousiness,	c	c			-		
Emotional propiems	C77	2.3	770	1.7	9 0	3.0	23
Legiconton) C	. c	0.0	7.6	2,0	6.0	0 \
nypenensian Road dieses	77	1.7	P.7 *	t.70 ★	1.7	0.7	970
Remediate amphressis	000	+ t-	7.0	t u	t t	t C	† r
Destruction, emphysema Asthma	4 4	7.7 A.C.	, i c	C.7	7.7	7.6	1.7
1 Lore	20	-	. <u>-</u>	S. F.		67	7.7
Other diseases of the	2		7:1	F : T	• -	0.1	L.1
digestive system	3.0	4 4 3	2.5	4.6	<u>۲</u>	C V	9
Kidney diseases	6.0	1.0	80	t es	0.6	7 C	N 0
Arthrits	5.4	3.1 S.1	4.4	4.3	6.4	5.5	6.5
Disorders of the					:	ļ i	`
intervertebral disc	3.0	2.8	2.8	2.3	3.2	2.3	2.8
Backtrouble (unspecifiec)	12.3	12.6	11.3	11.9	12.9	11.3	12.1
Total(c)	0'001	100.0	0.001	0.001	100.0	0.001	100.0
		45 yc	45 years and over			-	
No illness	20.7	16.0	18.7	19.6	23.7	14.3	18.8
No conference	v	r v		ť		Ç V	i i
Contraction	7 4	3.6	0.0	- C	6.3	7.6	700
Dishoter mellitus	9.0 A.0	0 - V	† . .	7.7.	9.1	C	D S
Obesity	4.0	1.4	* 0.2	90 *	7.t 0.3	9.0	6.0 A C
High cholesterol	5.2	6.9	6.9	4.6	5.2	7.4	6.4
Nerves, tension,							
nervousness,	0.7	7.7	1.7	•		Ċ	
Sincklustal problems Decreesion	0.0	1 (9.1	7.0 *	D	6.7	0.0 - 3
Depression Hyperfersion	26.8	27.1	24.0	22.0	22.3	1.0 4.0%	C.1 1.35
Heart discase	0.80	7.1	6.6	× 1 × 1 × 1	5.27 5.8	7.10	1.07
Bronchitis, emphysema	63	5.2	4.8	. 00 V	62	5.2	9.6

TABLE 4.6. PERSONS AGED 18 YEARS AND OVER: EXERCISE LEVEL(a) BY SELECTED CONDITIONS REPORTED(b) BY AGE AND SEX
AUSTRALIA, 1989-90
(Per cent)—continued

			:			Total	
Type of condition reported	Did not exercise	Low exercise level	Medium exercise level	High exercise level	Males	Females	Persons
		45	45 years and over				
Asthma	6.4	5.4	5,5	5.3	5.3	63	5.8
Ulcer	4.4	4.6	4.2	1.4	5	3.7	44
Other diseases of the			!	•	•	Š	Ī
digestive system	8.2	9.2	8.4	6.8	7.7	9.5	8,6
Kidney diseases	2.1	2.1	2.0	2.3	2.2	2.0	2.1
Arthritis	31.8	29.9	29.8	27.8	23.6	36.6	30.4
Disorders of the							
intervertebral disc	4,9	5.2	5.6	5.7	63	4.2	5.2
Backtrouble (unspecified)	10.9	13.4	12.7	11.8	13.7	10.6	12.0
Total(c)	100.0	100.0	0'001	0.001	0.001	0.001	100.0
			Total				
No ûlness	35.0	32.0	35.4	39.8	41.1	28.7	34.8
Neoplasms	÷.	10	0.0	0,0	10	ć	ć
Gout	2.0	۵ -	\ -	7:7); C	3.0
Diabetes mellitus	2.2	6.1	<u>} </u>	7.1	1.6	. o	6. T
Obesity	0.3	0.5	60	0.4) (2)	9.1	0.4
High cholesterol	3.2	3.7	3.4	3.7	32) oc	र का इंटर
Nerves, tension,					ļ i	!	1
nervousness,							
emotional problems	4.2	4.0	80.00	2.9	2.6	5.1	3.8
Depression	6.0	1.0	0.8	0.6	9.0	17	60
Hypertension	14.2	12.3	11.1	4.6	10.5	14.1	12.3
Heart disease	4.5	3.1	2.8	3.0	3.8	3.3	3.5
Bronchiùs, emphysema	4,4	3.7	3.5	3.6	3.8	4.0	3.9
Asthma	6.4	9.9	8.9	6.8	0.9	7.2	9.9
Ulcer	2.9	2.5	2.3	2.3	3.0	2.1	2.6
Other diseases of the							
digestive system	5.9	6.2	5.4	5.3	5.2	6.5	5.8
Kidney discases	1.5	1.4	1.3	1.3	1.3	1.5	1.4
Arthritis	18.0	14.9	14.1	12.3	12.2	18.6	15.5
Lysorders of the							
intervenebral disc Backtrouble (unspecifiec)	3.9	3.7	3.9	3.5	2.4 € C €	3.1	3.8
•		Ì			1	9	7.71
Total(c)	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Derived from frequency, duration and intensity of exercise reported in the two weeks prior to interview: see Appendix B. (b) Reported as recent and/or long-term conditions. Each person may have reported more than one type of condition. (c) Selected conditions only are shown and therefore components do not add to totals.

TABLE 4.7 PERSONS AGED 18 AND OVER WHO REPORTED EXERCISING: NUMBER OF TIMES EXERCISED AND AVERAGE DURATION OF EXERCISE SESSION BY SELF ASSESSED HEALTH STATUS BY TYPE OF EXERCISE AUSTRALIA, 1989-90 (Per cent)

Number of timesexercised average	+	Self-assessed health sta	itus		
duration of session	Excellent	Good	Fair	Poor	Tota
		VIGOROUS EXERCI	SE		
Number of times—			·		
Not applicable	28.1	51.1	16.7	4.0	100.0
One or two	40.5	50.7	7.8	0.9	100.0
Three to six	47.5	46.2	5.6	* 0.7	100.0
Seven to fourteen	53.3	40.8	5.2	* 0.7	100.0
More than fourteen	56.5	38.3	**	**	100.0
Total	32.6	50.1	14.1	3.2	100.0
Average Duration-					
Less than 15 mins	40.1	50.8	7.0	* 2.2	100.0
15 to less than 30 mins	38.8	51.7	8.6	* 0.9	100.0
30 to less than 60 mins	47.5	44.4	7,3	* 0.9	100.0
1 hour or more	46.4	47.1	5.8	0.7	100.0
Total	32.6	50.1	14.1	3.2	100.0
		MODERATE EXERCI	SĘ.		
Number of times—					
Not applicable	29.7	49.2	16.9	4.2	100.0
One or two	34.3	52.6	11.2	1.9	100.0
Three to six	37.6	51.6	9.7	1.2	100.0
Seven to fourteen	35.1	47.9	13.2	3.8	100.0
More than fourteen	34.1	52.4	10.3	* 3.2	100.0
Total	32.6	50.1	14.1	3.2	100.0
Average Duration—					
Less than 15 mins	28.7	50.0	16.5	4.8	100.0
15 to less than 30 mins	32.8	52.7	12.4	2.1	100.0
30 to less than 60 mins	37.6	50.6	10.0	1.8	100.0
1 hour or more	36.7	51.0	10.5	1.8	100.0
Total	32.6	50.1	14.1	3.2	100.0
		WALKING EXERCIS	SE		
Number of times—				, <u>.</u>	···· ·
Not applicable	37.9	50.8	9.7	1.6	100.0
One or two	32.8	51.5	13.1	2.6	100.0
Three to six	31.7	51.1	14.5	2.7	100.0
Seven to fourteen	28.4	47 .9	18.5	5.2	100.0
More than fourteen	28.0	50.2	16.6	5.2	100.0
Total	32.6	50.1	14.1	3.2	100.0
Average Duration—					
Less than 15 mins	27.4	47.5	19.8	5.3	100.0
15 to less than 30 mins	30.7	49.3	15.7	4.3	100.0
30 to less than 60 mins	29.9	50.7	15.5	3.8	100.0
1 hour or more	31.1	49.3	16.1	3.5	100.0
Total	32.6	50.1	14.1	3.2	100.0

TABLE 4.8 PERSONS AGED 18 AND OVER WHO REPORTED EXERCISING: NUMBER OF TIMES EXERCISED AND AVERAGE DURATION OF EXERCISE SESSION BY AUBLE 4.8 PERSONS AGED 18 AND LONG-TERM CONDITIONS BY TYPE OF EXERCISE

AUSTRALIA, 1989-90
(Per cent)

Number of times	Nw	Number of recent	nt illnesses		Nu	Number of tong-term conditions	n conditions		
exercised average duration of session	None	Опе	Two to three	Four or more	None	Опе	Two to three	Four or more	Total
				VIGOROUS EXERCISE	SE				
Number of times— Not applicable	18.2	28.6	38.5	14.7	21.3	26.3	35.1	313	100.0
One or two	23.1	31.9	35.4	96	29.3	31.3	31.0	18.9	100.0
Three to six	24.9	30.9	35.5	. so	32.8	32.8	26.8	16.3	100.0
Seven to fourteen	23.7	31.3	37.7	7.3	33.8	29.9	29.6	14.7	100.0
More than fourteen	* 30.6	* 22.2	42.0	*	* 23.2	46.3	* 25.4	8.6 +	100.0
Total	19.7	29.3	37.9	13.2	23.8	27.7	33.6	27.7	100.0
Average Duration—									
Less than 15 mins	21.5	28.7	38.6	11.3	22.3	33.5	34.7	19.5	100.0
15 to less than 30 mins	22.2	29.6	36.9	11.3	29.0	29.7	30.7	23.3	100.0
30 to less than 60 mins	24.0	30.1	37.1	80.80 80.00	28.6	33.6	29.9	17.7	100.0
l hour or more	24.3	32.3	35.1	8.3	33.6	31.0	28.2	15.8	100.0
Total	19.7	29.3	37.9	13.2	23.8	27.7	33.6	27.7	100.0
				MODERATE EXERCISE	SĖ				
Number of times—									
Not applicable	19.1	29.0	37.7	14.1	22.2	26.6	34.7	29.8	100.0
One or two	20.4	30.6	37.0	12.0	25.7	29.2	33.2	24.7	100.0
Three to six	21.6	29.6	38.3	10.5	27.4	29.5	31.2	23.3	100.0
Seven to fourteen	18.4	28.1	39.0	14.5	23.0	27.6	32.9	28.7	100.0
More than fourteen	19.7	26.8	37.6	15.9	23.3	23.0	35.6	31.6	100.0
Total	19.7	29.3	37.9	13.2	23.8	7.72	33.6	27.7	100.0
Average Duration—		t V	ţ	:	,	•	e T	3	
Less man 15 mins	(7)	1.07	42.7	4.4.	1.0	563	57.3	35.5 5.55	100.0
10 to tess than 50 mms	677	97.7	40.0	U.4.	1.27	8.67	32.8	8.12	0.00
Jour or more	22.4	30.8	35.9	10.8	25./ 28.1	28.5 28.5	32.0 31.8	23.7 23.7	100.0
Total	19.7	29.3	37.9	13.2	23.8	7.72	33.6	7.72	100.0

100.0

100.0 100.0 100.0

TABLE 4.8 PERSONS AGED 18 AND OVER WHO REPORTED EXERCISING: NUMBER OF TIMES EXERCISED AND AVERAGE DURATION OF EXERCISE SESSION BY NUMBER OF RECENT AND LONG-TERM CONDITIONS BY TYPE OF EXERCISE

AUSTRALIA, 1989-90

(Per cent)—continued

Total

100.0 100.0 100.0 100.0

100.0

Four or more 20.3 27.7 28.6 33.8 31.5 27.7 32.2 30.4 32.5 29.0 27.7 29.4 33.9 34.9 36.5 35.5 33.6 37.1 35.2 36.7 34.0 33.6 Two to three Number of long-term conditions One 30.2 29.3 27.0 25.0 26.4 27.7 25.0 27.5 26.4 26.6 27.7 30.5 22.4 22.3 19.4 21.4 None 23.8 20.6 19.5 19.7 23.0 WALKING EXERCISE Four or more 9.1 13.1 14.5 16.2 12.8 13.2 17.1 15.8 15.4 13.7 13.2 37.9 35.1 40.2 39.4 38.1 40.7 39.1 40.1 37.2 Two to three 37.9 Number of recent illnesses 31.6 30.0 29.1 27.1 24.3 One 27.4 27.1 27.6 29.6 29.3 29.3 16.4 16.9 16.7 19.5 24.1 16.7 17.0 18.6 22.2 None 19.7 19.7 30 to less than 60 mins 15 to less than 30 mins Average Duration— More than fourteen duration of session Less than 15 mins exercised average Seven to fourteen Number of times-Number of times I hour or more Not applicable Three to six One or two Total Total

BODY MASS

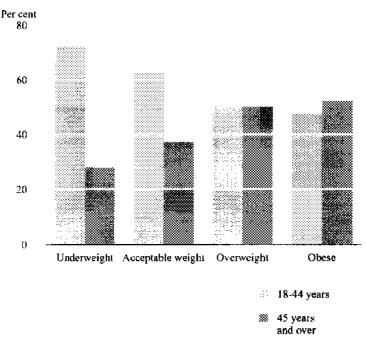
CHARACTERISTICS OF PEOPLE BY BODY MASS

Based on information provided by respondents in the survey about their height and weight, people aged 18 years and over were grouped according to their body mass index (BMI) scores, derived using the formula weight(kg) divided by the square of height (m²).

Results of the survey show that in 1989-90 less than half (48.2%) of Australians were in the acceptable weight range, a further 27.8 per cent were overweight, 11.8 per cent were underweight and 8.7 per cent were obese according to standards adopted by the National Health and Medical Research Council (see Appendix B). The proportions differed depending on a range of demographic and socio-economic factors as shown in Table 5.1. Overall, males were more likely to be overweight or obese (43.5%) than females (29.6%).

Underweight was more prevalent among younger age groups (22.1% of people aged 18 to 24 years), with proportionally more females (31.0%) than males (13.4%) in this age group being underweight. The highest proportions of overweight and obese people were reported in the age group 45 to 64 years (35.9% and 12.2% respectively), with males more likely to be overweight or obese (54.0%) than females (42.2%).

CHART 5.1. PERSONS AGED 18 YEARS AND OVER: BODY MASS BY AGE BY SEX, AUSTRALIA, 1989-90



The age structures of both males and females classified as underweight or of acceptable weight were similar with the majority being in the younger age group. Differences between males and females were evident in the overweight and obese categories, with over half of females who were overweight or obese aged 45 years and over (56.3%), compared with males of whom most were in the age group 18 to 44 years (53.4%). These age patterns should be borne in mind in interpreting differences in body mass among birthplace, employment and income groups outlined below (Table 5.1).

Body mass differed according to birthplace. The highest proportions of people classified overweight or obese were recorded among people born in Southern Europe (39.2% and 16.3% respectively), while people born in Southeast Asia reported the highest proportion being underweight or acceptable weight (25.7% and 53.9% respectively). Proportions of people born in Northeast or Southern Asia were similar (22.5 per cent underweight and 53.9 per cent of acceptable weight).

Body mass patterns were similar across labour force groups. However, unemployed people were more likely to be underweight than any other employment status category (14.5%) and recorded the lowest proportion overweight (23.7%). The highest proportion of people classified to the overweight or obese categories (38.0% combined) was recorded among those not in the labour force reflecting the older age profile of these people.

The pattern of body mass differed across income groups, with a higher proportion of those in higher income groups (and in general older age groups) classified overweight than those in lower income groups. For example, the highest proportion (38.9%) of overweight people and the lowest proportion, (3.7%), of those underweight was recorded among those with an income of \$50,000 or more. The highest proportion in the underweight category (14.2%) was recorded among those with incomes below \$10,000. It is noteworthy the highest proportion classified as obese (10.5%) was also recorded for this group.

People who reported being still at school or never having been to school were more likely to be both underweight or obese (16.0% and 10.4% respectively). This may reflect the age profiles of the groups. People who hold Trade or Apprenticeship qualifications reported the lowest proportion underweight (5.8%) and the highest proportion overweight (36.5%).

SELF-ASSESSED HEALTH STATUS

The majority of Australians assessed their health status as either excellent or good (79.2%) but the proportion varied according to body mass. People with a body mass classified as acceptable were more likely to assess their health as either excellent or good (83.2%) than people classified as overweight or obese (74.4%). As shown in Table 5.3 this pattern applied to all age groups.

The pattern however differed for males and females for each body mass category. Generally females who were underweight showed a greater propensity to assess their health in a positive manner. In contrast more males in the overweight and obese categories, assessed their health positively.

ILLNESS CONDITIONS

Body mass appears to be associated with the likelihood of illness being experienced. Associations apparent in the survey data are discussed in this section. It is emphasised however that the information available does not enable those associations to be interpreted as necessarily indicative of specific causal relationships, since, for example, data are not available from the survey to distinguish cause and effect, nor of the associated factors which may contribute to the onset of illness.

Number of conditions

People who were classified as obese were more likely to report recent and/or long-term conditions than those in any other body mass group. Some 83.7 per cent of people in this group reported one or more recent illness, and 82.0 per cent reported long term condition(s). The lowest proportion of people reporting one or more recent illness (78.6%) was recorded by people in the acceptable weight range, while those who were underweight were least likely to report one or more long-term conditions (73.3%). However there were variations across age groups as shown in Table 5.4.

For all body mass categories, females were more likely to report one or more recent and/or long-term condition than males. Overall, females classified as obese reported the highest occurrence of two or more recent conditions (65.6%) and long-term conditions (64.3%).

The highest average number of conditions (3.9) were reported by people classified as obese, and this relationship was true for all age groups over 24 years (Table 5.5). People aged 65 years and over who were obese had the highest average number of conditions (5.3) of all age groups. In general, people in the younger age groups reported a lower average number of conditions than those in older age groups, regardless of body mass.

Types of conditions

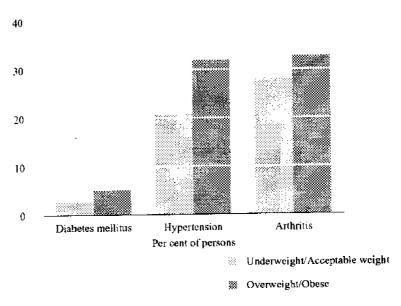
The level of association between body mass and illness conditions is higher for some types of conditions than for others; most notably for the condition groups endocrine, nutritional and metabolic diseases and immunity disorders, circulatory conditions and musculoskeletal conditions. Selected illness conditions from those groups are discussed below.

The prevalence of diabetes mellitus was higher among people who were obese (5.0%) and overweight (2.4%) than people who are underweight (0.6%) and acceptable weight (1.3%). This was discernible in persons in younger age groups, but was most prominent among people aged 45 years and over. For example, higher proportion of people aged 45 years and over who were obese or overweight reported diabetes than those who were underweight or acceptable weight (7.9% and 4.2% respectively compared with 1.9% and 2.9%). Females classified as obese reported a higher prevalence of diabetes than males for all ages. (Table 5.6).

Of those people who reported they had high cholesterol, 48.3 per cent were classified overweight or obese, compared with 36.5 per cent of the adult population overall. Although over three-quarters (76.0%) of people with high cholesterol were aged 45 years and over, the association between high cholesterol and body mass was slightly higher in the younger 18 to 44 year age group.

There was a strong association between the prevalence of hypertension and high body mass for all age groups, but was most notable for people aged 45 years and over. Some 20.7 per cent of people aged 45 years and over who were underweight or acceptable weight reported hypertension compared with 32.0 per cent of people who were overweight or obese in this age group.

CHART 5.2. PERSONS AGED 45 YEARS AND OVER: SELECTED RECENT AND/OR LONG-TERM CONDITIONS BY BODY MASS, AUSTRALIA, 1989-90



Research has indicated that body mass may be a risk factor for heart disease. Results of the survey showed that a slightly higher proportion of people who were overweight and obese reported heart disease compared with those who were underweight or acceptable weight. Among persons who were aged 65 years and over there was no clear association between heart disease and body mass, but for males aged 45 to 64 years some association was evident. Overall, the data suggests that age rather than body mass, is a key factor in the prevalence of heart disease.

As shown in Chart 5.2 the incidence of arthritis and rheumatism increased as body mass increased. This relationship was particularly evident in the 18 to 44 year age group despite the lower prevalence of this condition in younger age groups. The results show the condition to be more prevalent in people aged 45 years and over who were obese (38.1%) than for any other body mass index group.

Whereas in most cases the prevalence of conditions is higher among people classified overweight/obese, for respiratory conditions a small but reverse trend was evident. The prevalence of respiratory conditions was highest among underweight people (36.1%), and the pattern was most evident in the 18 to 44 year age group.

DIETARY CHANGES

Information was collected in the National Health Survey about sustained changes people had made in their diet during the previous two years. This information cannot be directly related to body mass, although it is notable that of those people aged 18 years and over who reported dietary change(s), 25.5 per cent said they changed because of a medical condition they had, most commonly high cholesterol, diabetes/high blood sugar and obesity. A further 29.8 per cent said they changed their diet to improve their general health, and 15.1 per cent (18.1% of females) changed their diet to lose weight. Of those people classified as overweight and obese, 42.9 per cent and 46.1 per cent respectively said they had changed their diet in the previous two years.

Generally people in younger age groups showed a greater likelihood of increasing their consumption of 'healthy' food (e.g. vegetables, fruit, fish) while people in the middle age groups showed a greater tendency to decrease their consumption of 'unhealthy' food, such as fried foods, salt, sugar, cakes and pastries. Females aged 65 years and over were less likely to make the selected 'healthy' changes to their diet than any other age group (Table 5.8). Of those who did change their diet, the majority did so as a result of a medical condition (40.8%). Females aged 18 to 24 years showed a greater likelihood of increasing bread consumption, vegetables and fresh fruit than any other age group and also recorded the highest proportion to decrease sugar and the highest proportion to change their diet in order to lose weight (21.6%). Females aged 45 to 64 years were more likely to decrease salt, fat on meat and the consumption of cakes, pastries and desserts than any other age group.

Males aged 18 to 24 years were also most likely to increase the consumption of vegetables, fresh fruit and bread, but were least likely to reduce the unhealthy foods in their diet than other age groups. However this pattern changed for males aged 45 to 64 years, who were the most likely to decrease unhealthy foods, i.e. fat on meat, fried foods, salt, sugar, cakes, pastries and desserts than any other age group. The reasons most commonly reported for these changes were 'Improve health' (22.3%) and high cholesterol (17.8%). Males and females aged 45 to 64 years were also more likely to increase fish consumption than other age groups.

SUMMARY

Based on self-reported height and weight, 36.5 per cent of adult Australians were classified overweight or obese. Overweight and obesity was most common among males in middle age groups, and among females in older age groups.

Results of the survey suggest an association between body mass and the likelihood of illness. The prevalence of recent and long-term conditions was generally highest among those classified as obese, and to a lesser degree among those overweight. These associations were strong for conditions such as diabetes, hypertension and rheumatism and arthritis.

TABLE 5.1. PERSONS AGED 18 YEARS AND OVER : BODY MASS(a) BY SELECTED CHARACTERISTICS AUSTRALIA, 1989-90

			(*00	10)					(Per o	cent)		
	Under-	Accept-	Over-		Not avail-		Under-	Accept-	Over-		Not avail-	
Selected characteristics	weight	able	weight	Obese	able	Total	weight	able	weight	Obese	able	Total
Sex												
Males	383.4	2,933.4	2,171.6	504.6	151.7	6,144.7	6.2	47.7	35.3	8.2	2.5	100.0
Females	1,084.4	3,065.7	1,291.5	572.8	285.1	6,299.5	17.2	48.7	20.5	9.1	4.5	100.0
Age group (years)												
18 — 24	427.5	1,027.6	307.1	72.3	102.7	1,937.3	22.1	53.0	15.9	3.7	5.3	100.0
25 — 44	630.9	2,727.2	1,425.2	439.8	137.9	5,361.1	11.8	50.9	26.6	8.2	2.6	100.0
45 — 64	200.8	1,402.5	1,167.1	397.4		3,248.7	6.2	43.2	35.9	12.2	2.5	100.0
65 and over	208.7	841.7	563.6	167.8	115.3	1,897.1	11.0	44.4	29.7	8.8	6.1	100.0
Country of birth —												
Australia	1,096.6	4,395.9	2,471.3	753.3	322.7	9,039.7	12.1	48.6	27.3	8.3	3.6	0.001
New Zealand and other												
Oceania	38.7	133.4	77.8	20.8	6.2	276.9	14.0	48.2	28.1	7.5	2.2	100.0
United Kingdom and Ireland	123.0	600.0	322.9	90.3	32.2	1,168.6	10.5	51.3	27.6	7.7	2.8	100.0
Southern Europe	26.2	253.3	277.4	115.5	36.2	708.5	3.7	35.7	39.2	16.3	5.1	100.0
Other Europe and U.S.S.R.	32.2	203.7	142.6	48.7	16.4	443.6	7.2	45.9	32.1	11.0	3.7	100.0
Middle East	11.2	61.5	52.3	21.3	* 4.2	150.6	7.5	40.8	34.7	14.2	* 2.8	100.0
Southeast Asia	67.3	141.3	42.7	* 5.1	5.4	261.9	25.7	53.9	16.3	* 2.0	2.1	100.0
Northeast/ Southern Asia	49.0	117.1	35.6	9.1	7.3	218.1	22.5	53.7	16.3	4.2	3.3	100.0
Northern, South and Central												
America and the Caribbean	12.6	54.3	25.6	7.9	* 3.0	103.5	12.2	52.4	24.8	7.7	* 2.9	100.0
Africa (incl. North Africa)	11.1	38.6	14.8	* 5.1	* 3.2	72.8	15.2	53.0	20.3	* 7.1	* 4.3	100.0
Total overseas born	371.3	1,603.2	991.7	324.1	114.2	3,404.5	10.9	4 7. I	29.1	9.5	3.4	100.0
Highest post school												
qualifications —												
Still at school or never went to			22.0			00.5		00.1				
school	14.1	33.8	23.2	9.2	8.3	88.5	16.0	38.1	26.2	10.4	9.3	100.0
Bachelor degree or higher	128.9	638.6	269.7	47.6	16.7	1,101.5	11.7	58.0	24.5	4.3	1.5	100.0
Frade/Apprenticeship	105.4	845.5	659.4	160.0	34.6	1,804.9	5.8	46.8	36.5	8.9	1.9	100.0
Certificate/Diploma	371.0 13.0	1,313.4	604.6 33.5	175.7 12.2	68.1	2,532.9	14.6	51.9	23.9	6.9	2.7	100.0
Other	835.5	57.1 3.110.6	1,872.7	672.7	* 5.1 304.1	120.8 6,795.6	10.7 12.3	47.3 45.8	27.7 27.6	10.1 9.9	* 4.2 4.5	100.0 100.0
No post-school qualification	633.3	3,110.0	1,012.1	672.1	304.1	0,793.0	12.3	43.6	27.0	9.9	4.3	[00.0
Labour force status(b) —												
Employed	851.4	3,834.1	2,143.3	584.1	202.4	7,615.3	11.2	50.3	28.3	7.7	2.7	100.0
Unemployed (looking for												
work) Not in Jabour force	82.4 325.4	278.5 1,044.8	134.6 621.7	49.0 276.4	22.4 96.7	566.8 2,365.1	14.5 13.8	49.1 44.2	23.7 26.3	8.6 11.7	3.9 4.1	-100.0 -100.0
Gross personal annual					,		"		20.0			
income(c) —												
\$0 — 9,999	541.0	1,706.8	982.8	402.0	185.6	3,819.2	14.2	44.7	25.7	10.5	4.9	100.0
\$10,000 19,999		1,333.5	684.2	220.0		2,718.1	13.9	49.1	25.2	8.1	3.8	100.0
\$20,000 — 29,999	256.9	-	701.0	179.6		2,454.9	10.5	51.3	28.6	7.3	2.3	100.0
\$30,000 39,999	105.0	656.2	412.0	104.6		1,296.4	8.1	50.6	31.8	8.1	1.4	100.0
\$40,000 — 49,999	27.5	234.3	188.9	33.2	8.9	492.8	5.6	47.5	38.3	6.7	1.8	100.0
\$50,000 or more	18.7	244.5	195.6	40.2	* 4.4	503.3	3.7	48.6	38.9	8.0	* 0.9	100.0
Not stated	43.9	206.0	131.5	27.6	32.7	441.6	9.9	46.7	29.8	6.2	7.4	100.0
Total	1 467 0	5 000 1	3,463.1	1 077 3	116.0	12,444.2	11.8	48.2	27.8	8.7	3.5	100.0

⁽a) Derived from self-reported height and weight : see Appendix B. (b) Persons 18 to 64 years only. (c) Persons 18 years and over who reported a source of income.

TABLE 5.2. PERSONS AGED 18 YEARS AND OVER: BODY MASS(a) BY AGE BY SEX AUSTRALIA, 1989-90

			('000)					Per cent		
					Age group	(years)				
Body mass	18 - 24	25 <u>- 44</u>	45 - 64 6	5 and over	Total	18 - 24	25 - 44	45 - 64 65	and over	<u>Total</u>
				Male	ts					
Underweight	132.1	136.2	56.7	58.4	383.4	13.4	5.0	3.4	7.2	6.2
Acceptable weight	560.2	1,330.3	672.2	370.8	2,933.4	56.9	49.2	40.7	45.9	47.7
Overweight	208.3	960.7	709.3	293.3	2,171.6	21.2	35.5	43.0	36.3	35.3
Obese	3 6 .1	225.0	181.0	62.5	504.6	3.7	8.3	11.0	7.7	8.2
Not available	47.1	50.4	32.1	22.2	151.7	4.8	1.9	1.9	2.7	2.5
Total	983.7	2,702.5	1,651.3	807.1	6,144.7	100.0	100.0	100.0	100.0	100.0
		···		Fema	les					
Underweight	295.4	494.7	144.1	150.3	1,084.4	31.0	18.6	9.0	13.8	17.2
Acceptable weight	467.5	1,397.0	730.3	470.9	3,065.7	49.0	52.5	45.7	43.2	48.7
Overweight	98.8	464.6	457.8	270.3	1,291.5	10.4	17.5	28.7	24.8	20.5
Obese	36.2	214.8	216.4	105.3	572.8	3.8	8.1	13.5	9.7	9.1
Not available	55.7	87.5	48.8	93.2	285.1	5.8	3.3	3.1	8.5	4.5
Total	953.6	2,658.6	1,597.4	1,089.9	6,299.5	100.0	100.0	100.0	100.0	100.0
		<u> </u>		Perse	ons .					
Underweight	427.5	630.9	200.8	208.7	1,467.9	22.1	11.8	6.2	11.0	11.8
Acceptable weight	1,027.6	2,727.2	1,402.5	841.7	5,999.1	53.0	50.9	43.2	44.4	48.2
Overweight	307.1	1,425.2	1,167.1	563.6	3,463.1	15.9	26.6	35.9	29.7	27.8
Obese	72.3	439.8	397.4	167.8	1,077.3	3.7	8.2	12.2	8.8	8.7
Not available	102.7	137.9	80.9	115.3	436.8	5.3	2.6	2.5	6.1	3.5
Total	1,937.3	5,361.1	3,248.7	1,897.1	12,444.2	100.0	100.0	100.0	100.0	100.0

⁽a) Derived from self-reported height and weight : see Appendix B.

TABLE 5.3. PERSONS AGED 18 YEARS AND OVER: BODY MASS(a) BY SELF ASSESSED HEALTH STATUS BY AGE BY SEX AUSTRALIA, 1989-90 (*000)

																		l
Calf account hantit	<i>n</i>	Underweight	h!	Acc	scceptable weight	erghi	ر	Overweight	,,,		Obese		Not	available			Total	
Status	Males	Males Females Persons	Persons		Males Females Persons	Persons	Males	Males Females Persons	Persons	Males F	Females	Persons	Males F	Males Females	Persons	Males	Males Females	Persons
		;						18 - 24 y	24 years									
Excellent	516				ı	274.2	305	0.20	2 00									
Good	67.0	1507				2 4 4 7	1	20.0	7,000	- 0	7.6	15.9	17.7	0	23.0	369.0	294.4	663.
Guite) T					0.400	113.2	0.90	169.7	20.2	16.0	36.2	56.6	36.3	62.9	5103	540.7	1,051.
rau D	† ;		7.14	7.64	4	90.3	20.4	15.1	35.6	7.5	0.1	18.6	7.3	 06	15.4	95.8	105.2	201.
Poor	*	89	7.9			8.6	* 2.1	*	* 3.3	*	*	*	*	*	* 1.4	8.6	13.4	22.0
Total	132.1	295.4	427.5	560.2	467.5	1,027.6	2083	8.86	307.1	36.1	36.2	72.3	47.1	55.7	102.7	983.7	953.6	1.537.3
							7	25 — 44 years	cars	1			Ē		İ			
Excellent	25.7	107.3	3766	544.1	i	1 1151	0.000	15	17.00			,				•		
Cod	4.6		777			1,511,1	343.0	151.5	456.6	24.8	49.8	104.6	11.9	50.6	32.5	970.9		1,936.
Tion of the contract of the co	70.07	•	0.120	200	8.780	8.144,1 8.146,1	5.20.3	8.70	7.8.1	127.6	121.7	249.3	30.4	49.5	79.9	1,415.3		2,770.
Deser	4.2.5	C C	6.70			238.4	101	2 6	165.7	35.7	33.5	69.1	6.9	14.1	21.0	276.1		562.
rooi	0.0		13.8			31.9	14.3	10.6	24.9	6.9	6.6	16.8	* 1.3	* 3.2	* 4.6	40.2	51.7	91.9
Total	136.2	494.7	630.9	1,330.3	1,397.0	2,727.2	7.096	464.6	1,425.2	225.0	214.8	439.8	50.4	87.5	137.9	2,702.5	2,658.6	5,361.1
						İ	4	45 64 y	years									
Excellent	12.4	43.2	55.6		2126	303.0	160.6		0.950	0.00	6	2			:			
Gexxl	i c	7.0	i ax		256.4	275.7	100.0	† t	0.007	2.5.5	7.67	23.7	च च *	5.5	13.9	382.7	389.5	772
Fair	\$ 54 1	22.7	300	1.100	1007	0.720	501.3	0.027	0.000	0.75	9.05 4.08	177.4	15.6	21.5	37.0	816.0	771.2	1,587.1
Soor	00	; 5	4.00		200	0.147	2,601	100.0	241.3	1.65	7	119.2	×.	12.1	20.9	336.6	335.3	672.)
<u>.</u>	200		<u>-</u>		0.00	5.00	0.64	0.67	9.7.7	50.9	7.97	47.1	*	κ œ	9.1	116.0	101.4	217.
Total	\$6.7	144.1	200.8	672.2	730.3	1,402.5	709.3	457.8	F 29F F	0.181	216.4	397.4	32.1	8.8	80.9	1,651.3	1,597.4	3,248.7
	į						65 y	years and	over									
Excellent	6.9	23.9	30.8	53.3	73.3	126.6	37.8	34.3	72.1	7.4	12.1	10.5	*	11	300	0 201	1	1
Good	20.6	59.4	80.0	166.1	219.7	385.9	126.1	117.7	243.8	23.7	3,4,5	7.05	† C	31.6	72.0	247.5	1.94.7	107
Fair	14.8	47.2	61.9	106.7	135.7	242.4	94.3	85.6	180.0	21.2	410	63.7	4.14	34.1	40.4	4.14.C	244.5	212
Poor	16.2	19.8	36.0	44.6	42.2	86.8	35.1	32.7	67.8	10.0	14.9	24.9	3.0	16.2	19.2	108.9	1257	234.6
Total	58.4	150.3	208.7	370.8	470.9	841.7	293.3	270.3	563.6	62.5	105.3	8 291	22.2	03.7	1153			7 208 1
	ĺ							Total			:							. / / / / /
Cweellans	1.701	7 056	200	1 5000	200			1010							1	- 1		
Good	1.00.1	508.4	404 0.00 0.00	1,003.7	1,006.3	2,009.9	595.9	286.3	882.2	93.9	8.001	194.6	29.8	52.2	82.0	1,829.3	1,803.9	3,633.5
in the state of th	C./61	1.40.7	710.6	1,450.7	0.140,	1.616.7	1,121,1	027.0	1,778.1	258.0	264.6	522.6	83.6	139.0			3,132.5	6,221.2
Door	7.10	1.051 1.051	4.10.1	592.4	425.3	815.9	355.0	274.1	629.2	114.2	156.5	270.6	29.5	68.4			1,070.9	2,023.7
1001	6.62	8 .0	13.1	98.6	94,9	193.5	93.6	74.1	173.6	38.5	50.9	89.5	80.80	25.5			292.2	566.0
Total	383.4	1,084.4	1,467.9	2,933.4	3,065.7	5,999.1	9,171,5	1,291.5	3,463.1	504.6	572.8	1,077.3	151.7	285.1	436.8 6	6.1447	6 299 5 12 444 2	2.444.7
		İ																

TABLE 5.3. PERSONS AGED 18 YEARS AND OVER: BODY MASS(a) BY SELF ASSESSED HEALTH STATUS BY AGE BY SEX AUSTRALIA, 1989-90 (Per cent)

: :	Ü	Underweight		Accep	ceptable weight	Į.	Ó	Overweight		٥	Obese		Not	Not available			Total	
status	Males	Maies Females Persons	Persons	Males F	Females 1	Persons	Males F	Males Females Persons	ersons	Males Females Persons	males P	ersons	Males Females	emales P	Persons	Males Females Persons	emales P	ersons
							18	— 24 years	ars						!			
Execllent	39.1	33.5	35.3	40.2	31.9	36.4	34.8	26.3	32.1	21.3	25.3	23.3	25.6	19.7	22.4	37.5	30.9	34.2
G00d Fisir	51.5	54.1	E. c	50.4	200 200 210	54.0 0.0	54. 3	57.2	55.3	55.9	44.2	50.0	56.4	65.2	61.2	51.9	56.7	54.2
Poor	0.4	10.1 2.3	ý - Q 0	6 6 6 6	ю - ю -	xo o	× .	15.3	11.6	20.8	30.5	25.7	15.4	14.6	15.0	9.7	11.0	10.4
Š		1	7 .1	0.0	1:1	9.0	0:1	ŧ	:	‡	;	+	!	ţ	F.4	6.0	1.4	T.1
Total	0.001	0.001	0.001	0.001	0.001	100.0	0.001	0.001	100.0	100.0	0.001	0.001	0.001	0:001	0.001	0'001	0.001	0.001
							25	44 years	215									
Execllent	25.8	38.9	36.1	40.9	40.9	40.0	3.3.8	28.3		24.4	71,	22.8	32.5	32.6	226	25.0	16.2	16.1
Good	57.3	49.3	51.0	49.5	48.9	49.2	54.2	55.5	54.6	56.7	56.6	56.7	603	9,95 9,65 9,65 9,65 9,65 9,65 9,65 9,65	57.9	52.4	3 5 2 0	51.7
Fair	14.7	6.7	10.8	8.5	9.0	00	10.5	13.9	11.6	15.9	15.6	15.7	13.6	16.1	15.2	10.2	10.8	10.5
Poor	2.2	2.2	2.2	1.1	1.2	1.2	1.5	2.3	1.7	3.1	4.6	3.8	2.6	3.7	3.3	1.5	67	1.7
Total	0.001	0.001	0.001	0.001	0.001	0:001	0.001	0:001	100.0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
							45	54 years	1									
							7		413		•							
Good	21.9	30.0	21.1	27.0	29.1	28.1	22.6	20.6	21.9	13.2	13.7	13.5	13.8	19.4	17.2	23.2	24.4	23.8
Good	35.6 5	16.1	4 5	4. 24. 24. 24. 24. 24. 24. 24. 24. 24. 2	20.5	49.7	51.0	49.1	503	48.1 1.0	41.8	44.6	48.5	4.0	45.8	49.4	48.3	48.9
Door	4.77	10.4		18.5	65	3;	19.6 0.7	8.7	21.2	27.7	32.4	30.0	27.4	24.8	25.8	20.4	21.0	20.7
3	14.7	ר ס		5 .0	7.4	4.7	8	6.5	ċ	C.	17.1	E.8	10.3	11.8	11.2	7.0	6.3	6.3
Total	0.001	0.001	0.001	0.001	100.0	0'001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0:001	0.001
į							65 ye	years and o	over									
Excellent	11.8	15.9	14.8	14.4	15.6	15.0	12.9	12.7	12.8	11.9	11.5	11.6	6.4	11.9	10.8	13.2	14.2	13.8
Good	35.2	39.5	38.3	44.8	46.7	45.8	43.0	43.5	43.3	37.2	34.6	35.6	50.4	34.1	37.2	43.0	42.7	42.8
Fair	25.3	31.4	29.7	28.8	28.8	28.8	32.2	31.7	31.9	34.9	39.8	38.0	29.6	36.6	35.2	30.3	31.6	31.0
Poor	27.7	13.2	17.2	12.0	0.6	10.3	12.0	12.1	12.0	16.1	14.1	14.8	13.6	17.4	16.7	13.5	11.5	12.4
Total	0.001	100.0	100.0	0.001	0.001	0.001	0:001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	100.0
İ								Total										
Excellent	27.7	33.0	31.6	34.2	32.8	33.5	27.4	22.2	25.5	18.6	17.6	18.1	19.6	18.3	18.8	29.8	28.6	29.2
C000	8.84	⊖. t	48.9	0.64	50.3	49.7	51.6	50.9	51.3	51.1	46.2	48.5	55.1	48.8	51.0	50.3	49.7	50.0
Poor	16.1	13.7	14.3 5.1	13.4 4.6		13.6	16.3	21.2	18.2	22.6	27.3	25.1	19.4	24.0	22.4	15.5	17.0	16.3
	Ļ	,	7.1	t í	ř	3.2	ę. O	, G	0,0	9./	5. X	د م	XO.	0.6	6.7	4.5	4.6	. 5
Total	100.0	0.001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	100.0	100.0
(a) Derived from self-reported height and weight; see Appendix B.	ed height and	weightse	e Appendio	. B.														

TABLE 5.4. PERSONS AGED 18 YEARS AND OVER: BODY MASS(a) BY NUMBER OF RECENT AND/OR LONG-TERM CONDITIONS BY AGE BY SEX AUSTRALIA, 1989-90 (*000)

615.8 1,799.9 1,136.5 2,413.0 1,468.8 2,528.4 391.1 557.1 1,140.4 2,552.3 1,123.0 2,335.9 1,056.1 1,958.3 292.7 451.9 Males Females Persons 1,256.9 2,037.7 1,132.5 426.7 1,064.3 2,183.7 1,471.1 5,145.8 3,612.2 7,298.4 185.5 491.8 1,180.7 829.4 258.1 585.5 1,117.4 726.3 2,458.4 2,687.3 Total 1,184.1 1,276.5 1,059.7 165.9 1,411.9 1,212.9 902.2 3,6862 159.2 1,003.0 460.6 671.3 920.3 406.2 241.2 572.5 240.6 70.1 72.0 83.0 15.5 Males Females Persons 81.9 81.9 60.1 16.7 17.6 39.9 81.4 57.4 196.2 26.6 48.9 72.1 48.6 Not available 33.1 44.7 54.0 54.0 44.1 46.6 39.6 12.9 143.2 14.1 32.7 55.9 39.4 9.8 25.3 4.2 4.2 142.0 37.1 27.3 29.0 * 4.1 37.9 35.3 20.4 3.9 57.5 12.5 16.3 16.2 9.2 7.8 14.6 18.6 13.2 54.2 Males Females Persons 111.9 160.7 182.5 57.1 148.6 159.7 154.7 49.1 512.2 68.3 125.5 212.3 159.1 44.9 92.9 231.1 196.3 565.2 37.8 69.1 106.9 37.3 63.4 73.4 82.0 32.2 22.7 45.0 129.7 124.3 251.1 27.1 63.3 123.8 107.5 321.7 74.1 91.6 75.6 19.8 85.2 86.2 72.7 16.9 261.1 41.2 62.1 88.6 51.6 22.2 48.0 101.4 71.9 243.5 Males Fernales Persons 1,732.4 240.4 432.9 676.5 380.9 451.1 570.2 590.2 120.9 598.9 545.8 474.3 113.5 146.5 364.1 716.9 503.2 1,730.7 18 — 44 years 45 years and over Overweight 563.4 86.4 167.6 238.2 71.2 162.7 165.7 175.7 59.3 60.8 152.6 299.8 214.9 728.1 49.2 127.1 312.1 239.7 364.7 402.6 352.0 49.7 436.2 380.0 298.6 54.2 0.691,1 97.3 237.0 404.8 263.5 179.6 280.3 376.7 166.0 1,002.6 Males Females Persons 947.9 1,260.5 1,280.5 266.0 1,360.2 1,193.4 989.9 211.4 3,754.9 336.8 557.8 906.3 443.3 187.9 482.5 977.8 596.0 2,2442 Acceptable weight 323.2 599.3 758.8 183.2 616.6 576.8 534.8 136.2 1,864.5 126.3 276.2 511.9 286.8 86.3 235.6 540.8 338.6 1,201.2 743.5 616.7 455.0 75.2 624.7 661.2 521.7 82.7 1,890.4 210.5 281.5 394.3 156.6 101.6 246.9 437.0 257.4 1,043.0 Males Females Persons 218.9 349.6 392.3 97.6 362.7 355.2 279.4 61.1 29.9 84.9 176.5 118.3 1,058.4 409.5 46.7 91.8 170.5 100.5 Underweight 135.3 255.8 311.0 88.0 253.6 260.5 224.0 52.1 7.062 29.8 60.7 126.0 77.7 17.5 58.9 135.3 82.7 294.4 83.6 93.8 81.3 9.6 94.7 55.4 9.0 16.9 31.1 44.5 22.8 12.3 26.0 41.1 35.6 115.1 Number of recent and Number of long-term Number of long-term long-term illnesses Number of recent Number of recent One Two to three Four or more Iwo to three Iwo to three Four or more Iwo to three Four or more conditions conditionsillnesses— Illnesses-None None Total Total

TABLE 5.4. PERSONS AGED 18 YEARS AND OVER: BODY MASS(a) BY NUMBER OF RECENT AND/OR LONG-TERM CONDITIONS BY AGE BY SEX
AUSTRALIA, 1989-90
(1000)—continued

	2	Underweight	**	Acce	Acceptable weight	7481	0	Overweight			Obese	-	Not	Not available			Total	!
Number of recent and long-term illnesses	Males	Males Females Persons Male	Persons	Males	es Females Persons	Persons	Males 1	Males Females Persons	Persons	Males F	Males Females Persons	Persons	Males F	Males Females Persons Males Females Persons	ersons	Males	Females	Persons
	:						Tol	Total (Number)	xer)									
Number of recent																		
nnesses— None	100.5	165.1	265.6	835.2	449.5	1,284.7	544.2	147.2	691.4	115.2	64.9	180.1	49.6	47.2	7.96	1,644.7	873.9	2,518.6
One	124.9		441.4	942.8	875.5	1,818.2	685.9	320.2	1,003.1	153.7	132.4	286.2	43.6	77.3	120.9	1,947.9	1,722.0	3,669.9
Two to three	125.7		562.8	916.1	1,270.7	2,186.8	728.7	538.0	1,266.7	164.2	230.6	394.8	45.2	109.9	155.1	1,980.0	2,586.2	4,566.1
Гоиг от тоге	32.3		198.1	239.3	470.0	709.3	215.7	286.1	501.8	71.4	144.8	216.2	13.3	50.8	64.1	572.1	1,117,4	1,689.5
Number of long-term																		
conditions—																		
None	121.5		392.6	845.2	702.9	1,548.0	533.5	211.9	745,4	107.4	86.2	193.5	45.6	53.9	99.5	1,653.1	1,325.9	2,979.0
One	120.7		440.1	863.6	812.3	1,675.9	617.1	292.8	6.606	134.2	118.4	252.6	6'64	71.9	121.8	1,785.5	1,614.8	3,400.2
Two to three	9.96	359.3	455.9	892.0	1.075.6	1,967.7	703.4	487.8	1,191.2	174.1	211.7	385.8	39.1	102.4	141,4	1,905.2	2,236.8	4,142.0
Four or more	44.6		179.4	332.6	474.8	807.4	317.6	299.0	616.7	88.9	156.5	245.4	17.1	57.0	74.1	800.8	1,122.1	1,922.9
Total	383.4	383.4 1,084.4 1,467.9 2,933.	1,467.9	2,933.4	3,065.7 5,999.1		2,171.6 1,291.5 3,463.1	1,291.5	3,463.1	504.6	572.8	1,077.3	151.7	285.1	436.8	6,144.7	6,144.7 6,299.512,444.2	2,444.2
								Per cent										

								100										
Number of recent																		
None	26.2	15.2	1.8.1	28.5	14.7	21.4	25.1	11.4	20.0	22.8	11.3	16.7	32.7	16.5	22.1	26.8	13.9	20.2
One	32.6	29.5	30.1	32.1	28.6	30,3	31.4	24.8	29.0	30.5	23.1	26.6	28.7	27.1	27.7	31.7	27.3	29.5
Two to three	32.8	40.3	38.3	31.2	41.4	36.5	33.6	41.7	36.6	32.5	40.3	36.6	29.8	38.5	35.5	32.2	41.1	36.7
Four or more	3c.	15.3	13.5	8.2	15.3	11.8	6.6	22.2	14.5	14.2	25.3	20.1	99. 90.	17.8	14.7	9.3	17.7	13.6
Number of long-term conditions—																		
None	31.7	25.0	26.7	28.8	22.9	25.8	24.6	16.4	21.5	21.3	15.0	18.0	30.1	18.9	22.8	26.9	21.0	23.9
One One	31.5	29.4	30.0	29.4	26.5	27.9	28.4	22.7	26.3	26.6	20.7	23.4	32.9	25.2	27.9	29.1	25.6	27.3
Two to three	25.2	33.1	31.1	30.4	35.1	32.8	32.4	37.8	34.4	34.5	37.0	35.8	25.8	35.9	32.4	31.0	35.5	33.3
Four or more	11.6	12.4	12.2	11.3	15.5	13.5	14.6	23.2	17.8	17.6	27.3	22.8	11.3	20.0	17.0	13.0	17.8	15.5
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	100.0	100.0	100.0	0.001	100.0
(a) Derived from self-reported height and weight: see Appendix B.	ted height and	weight: se	ec Appendi	ix B.														İ

TABLE 5.5. AVERAGE NUMBER OF CONDITIONS EXPERIENCED(a): PERSONS AGED 18 YEARS AND OVER BY SELECTED CHARACTERISTICS BY BODY MASS(b)
AUSTRALIA, 1989-90

	F7 J	Acceptable	Ownerials	Obese	Not available	Tota
Selected characteristics	Underweight	weight	Overweight	Obese	ivoi avaliable	Tota
Sex —						
Males	3.0	3.0	3.3	3.5	2.9	3.2
Females	3.6	3.7	4.1	4.3	3.8	3.8
Age group (years) —						
18 24	2.9	2.7	2.6	2.8	2.6	2.7
25 — 44	3.1	2.9	2.9	3.2	3.0	3.0
45 — 64	4.0	3.8	3.9	4.3	3.7	3.9
65 and over	5.0	4.8	5.1	5.3	4.8	5.0
Birthplace —						
Australia	3.5	3.4	3.6	4.0	3.5	3.5
New Zealand and other Oceania	3.1	3.1	3.1	3.1	2.7	3.1
United Kingdom and Ireland	3.9	3.6	3.7	4.2	4.1	3.7
Southern Europe	2.8	2.9	3.2	3.3	3.6	3.1
Western Europe	3.8	3.3	3.6	3.7	4.0	3.5
Other Europe and U.S.S.R.	3.8	3.4	3.8	4.5	4.1	3.7
Middle East	2.9	2.7	3.1	3.5	* 2.6	2.9
Southeast Asia	2.6	2.6	2.9	* 4.0	2.5	2.7
Northeast/Southern Asia	2.6	2.9	3.2	2.9	3.3	2.9
America and the Caribbean(c)	3.1	3.2	3.5	3.7	* 3.5	3.3
Africa (incl. North Africa)	2.8	3.4	4.0	* 3.7	* 2.5	3.4
Total overseas born	3.2	3.2	3.4	3.7	3,6	<i>3</i> .1
Highest post school qualifications—			0.7	0.5	2.5	2.6
Still at school or never went to school	2.6	2.6	3.7	3.5	3.5	3.0
Bachelor degree or higher	3.2	3.2	3.4	3.6	3.3	3.3
Trade/Apprenticeship	3.5	3.2	3.3	3.5	3.0	3.3
Certificate/Diploma	3.4	3.5	3.8	4.2	3.7	3.6
Other	3.5	3.6	4.2	3.8	* 3.8	3.1
No post-school qualification	3.4	3.4	3.7	4.0	3.5	3.:
Labour force status(d) —	2.0	2.0	2.0	2.2	20	2.1
Employed	3.0	3.0	3.0	3.3	2.9	3.0
Unemployed (looking for work)	3.1	3.1	3.1	3.7	3.0	3.1
Not in labour force	3.5	3.6	4.2	4.5	3.5	3.8
Gross personal annual income(e) —	<u>.</u>					
\$0 - 9,999	3.8	4.0	4.4	4.7	4.0	4.1
\$10,000 — 19,999	3.2	3.2	3.6	3.7	3.2	3.4
\$20,000 29,999	3.1	3.0	3.0	3.3	2.9	3.0
\$30,000 39,999	3.1	3.1	3.1	3.4	2.8	3.
\$40,000 — 49,999	3.1	3.1	3.1	3.2	3.2	3.
\$50,000 or more	2.9	3.3	3.2	3.0	* 2.7	3.2
Not stated	3.5	3.2	3.2	3.2	3.5	3.3
Total	3.4	3.4	3.6	3.9	3.5	3.5

⁽a) Reported as recent and/or long-term conditions. (b) Derived from self-reported height and weight : see Appendix B. (c) Includes Northern, South and Central America. (d) Persons aged 18 to 64 years only. (e) Persons aged 18 years and over who reported a source of income.

TABLE 5.6. PERSONS AGED 18 YEARS AND OVER : BODY MASS(a) BY SELECTED CONDITIONS REPORTED(b) BY AGE AND SEX AUSTRALIA, 1989-90
('000)

							Total	
Type of condition reported	Underweight	Acceptable weight	Overweight	Obese	Not available	Males	Females	Persons
			18	— 44 years				
No illness	465.4	5'98L'1	799.0	205.8	111.1	1,943.5	1,424.2	3,367.7
Neoplasms	14.2	36.4	20.5	6.2	**	29.0	49.0	78.0
Gout	*	10.1	19.3	14.7	*	40.4	* 5.1	45.5
Diabetes mellitus	* 1.5	13.3	9.6	9.2	*	15.7	18.4	34.1
Obesity	*	* 5.3	7.8	11.5	*	* 4.3	21.1	25.4
High cholesterol	5.7	46.1	37.5	13.3	* 1.4	9:99	37.1	103.9
Nerves, tension,								
nervousness,	6		•	3	Ç			
emotional problems	26.9	71.6	36.2	19.0	7.0	60.1	106.6	166.7
Depression	* 5.0	16.5	9701	6.9	* *	11.9	28.4	40.3
Hypertension	10.8	60.1	71.8	43.6	8.5	4.66	92.6	192.0
Heart disease	* 3.6	12.5	10.7	* 3.9	**	15.5	15.4	30.9
Bronchitis, emphysema	33.0	93.4	46.3	14.3	89. 1	80.1	114.9	195.0
Asthma	84.5	259.7	114.3	41.9	23.9	239.6	284.6	524.3
Ulcer	12.4	41.2	29.1	11.6	* 2.4	61.1	35.5	9.96
Other diseases of the								
digestive system	39.0	127.9	72.9	33.6	9.1	129.7	152.9	282.5
Kidney diseases	9'9	32.8	14.8	4.8	* 4,1	23.8	43.0	1.99
Arthritis	34.1	170.4	102.3	41.3	11.4	170.5	189.0	359.5
Disorders of the								
intervertebral disc Backtrouble	15.9	6:06	9:89	20.7	6.1	119.3	82.8	202.1
(unspecified)	108.8	447.6	230.2	74.6	24.3	476.5	409.2	885.7
•								
Total	1,058.4	3,754.9	1,732.4	512.2	240.6	3,686.2	3,612.2	7,298.4
			45 yez	45 years and over				
No illness	66.8	439.8	330.7	94.4	35.9	583.4	384.2	9.736
Necolasms	33.2	127.1	100.6	25.4	20,7	154.6	139.4	294.0
Cont	4.4	52.1	9.68	38.2	+ 35	151.2	36.2	187.4
Diabetes mellitus	7.7	64.6	71.9	44.8	7.7	102.0	94.6	9.961
Obesity	*	* 3.4	80.8	9.5	‡	6.5	15.6	22.1
High cholesterol	19.3	142.5	119.7	38.3	8.9	128.8	200.0	328.8
Nerves, tension,								
nervousness,				ć t	Š	ţ		•
emotional problems	30.4	126.1	98.6	97.9	8.7.1	576	213.5	310.8
Depression	4. 6	2.07	1.47	C.Y.C.	13.1	5.42	45.7	0.80
Hypertension	7.57	4/4.8	6706	9777	7.70	5.740 5.050	8:06	1,343.1
near disease	20.9	4.00.	0.661	7.5	18.0	218.3	5061	2.609.2
bronchitis, emphysema	34.4	7.6(1	× 0	38.7	4. 6	9.151	138.6	2067
Asthma	73.b	0.121	95.9	40.1	13.7	150.1	106.9	4.847

TABLE 5.6. PERSONS AGED 18 YEARS AND OVER: BODY MASS(a) BY SELECTED CONDITIONS REPORTED(b) BY AGE AND SEX AUSTRALIA, 1989-90
(***1000****)—continued

Underweight Acceptable w 18.5 18.5 44.2 9.0 128.6 409.5 2.2 409.5 2.2 47.3 * * 5.0 9.2 *** 25.0 9.2 42.5 9.4 86.0 42.5 9.4 86.0 42.5 9.9 9.4 9.4 9.6 9.9 9.4 9.9 9.9	Overw 1,	0bese 45 years and over 22.8 52.5 16.6 215.2 26.1 58.9 565.2 Total (Number) 300.2	* 5.4 18.7 6.8 66.3 * 3.8 17.8 17.8 196.2 8.5	Males 125.9 189.1 54.2 579.4 154.4 336.0	Females 99.3 254.0 54.4 984.8 112.3 2.687.3	Persons 225.2 443.1 108.6 1,564.2 266.7 619.9 5,145.8
18.5 seases of the c system diseases liseases liseases 128.6 s of the tebral disc lifted) 25.9 fifted) 36.9 fifted) 36.9 fifted) 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.9 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 36.0 fifted 16	1, 1,	45 years and ov	* 5.4 18.7 6.8 66.3 * 3.8 17.8 196.2	125.9 189.1 54.2 579.4 154.4 336.0	99.3 254.0 54.4 984.8 112.3 283.8 2,687.3	225.2 443.1 108.6 1,564.2 266.7 619.9 5,145.8
seases of the c system 44.2 liseases 128.6 s of the 128.6 s of the 17.6 lifted 36.9 filled 36.9 s 532.2 s 532.	1,	Total (Number	* 5.4 18.7 6.8 66.3 * 3.8 * 17.8 196.2 147.0	125.9 189.1 54.2 579.4 154.4 336.0	99.3 254.0 54.4 984.8 112.3 283.8 2,687.3	225.2 443.1 108.6 1,564.2 266.7 619.9 5,445.8
seases of the c system 44.2 liseases 128.6 liseases 128.6 lifed) 128.6 lifed) 36.9 lifed) 36.9 lifed) 409.5 2.2 lifed) 409.5 2.2 lifed) 409.5 2.2 lifed) 409.5 2.2 lifed) 409.5 2.2 lifed) 409.5 2.2 lifed) 409.5 2.2 lifed) 409.5 2.2 lifed) 409.5 lifed) 409.6 lifed) 4	1,	Total (Number	18.7 6.8 66.3 *3.8 17.8 196.2 147.0	189.1 54.2 579.4 154.4 336.0	254.0 54.4 984.8 112.3 283.8 2,687.3	443.1 108.6 1,564.2 266.7 619.9 5,145.8
128.6 128.6 128.6 128.6 128.6 128.6 128.6 128.6 128.6 128.6 128.6 128.6 128.6 128.6 129.0 129.	1,	Total (Number	6.8 66.3 *3.8 17.8 196.2 147.0	154.2 579.4 154.4 336.0 2,458.4	24.4 984.8 112.3 283.8 2,687.3	198.6 1,564.2 266.7 619.9 5,145.8
inseases 128.6 s of the tebral disc 17.6 titled 36.9 fitted 36.9 409.5 2.2 ss 532.2 2.2 ms * 5.0 mellitus ** 5.0 tension, ness, al problems 9.4 nsion 86.0 scase 67.3 is, emphysema 67.3 scases of the	1,	Total (Number	66.3 *3.8 17.8 196.2 147.0	579.4 579.4 154.4 336.0 2,458.4	2,687.3	108.6 1,564.2 266.7 619.9 5,145.8
s of the tebral disc 17.6 tuble 17.6 tild(d) 36.9 filed(d) 36.9 ss 53.2 ss 53.2 cms 47.3 ms 47.3 ms 47.3 ms 47.3 ms 47.3 ms 47.3 al problems 9.2 msion 86.0 scase 67.3 scase 67.3 scase 67.3	1,	Total (Number	* 3.8 * 3.8 17.8 196.2 147.0	579.4 154.4 336.0 2,458.4	984.8 112.3 283.8 2,687.3	1,564.2 266.7 619.9 5,145.8 4,335.4
s of the tebral disc 17.6 tebral disc 17.6 tebral disc 17.6 tebral disc 36.9 tebral disc 25.0 tebral title 25.0 tension, tension 86.0 tension, tension 86.0 tension, tension 86.0 tension, tension 86.0 tension, tension 86.0 tension 86.0 tension 86.0 tension 108.1 tension 86.0 tension 86.0 tension 86.0 tension 86.0 tension 86.0 tension 108.1 tension 86.0 tension 86.0 tension 108.1 tension 86.0 tension 86.0 tension 86.0 tension 108.1 tension 86.0		S Total (Number)	+ 3.8 17.8 196.2 147.0 8.5	154.4 336.0 2,458.4	112.3 283.8 2,687.3	266.7 619.9 5.145.8 4.335.4
iffed) 36.9 iffed) 36.9 ss 409.5 2.2 ss 532.2 2.2 ms * 5.0 mellitus * * 5.0 tension, ness, al problems 9.4 non 86.0 scase is, emphysema 67.3 108.1 scases of the		Total (Number)	*3.8 17.8 196.2 147.0 8.5	154.4 336.0 2,458.4	283.8	5,145.8
iffied) 36.9 ss 409.5 2, ss 532.2 2, ms 47.3 ms 47.3 whittus * 5.0 tension, ness, al problems 25.0 tension, ness, standard 42.5 is, emphysema 67.3 scases of the		Total (Number)	17.8 196.2 147.0 8.5	336.0 2,458.4	2,687.3	619.9 5,145.8 4,335.4
ss 532.2 2,2 ms 47.3 ms + 5.0 mellitus + 5.0 tension, ten		Total (Number)	196.2	2,458.4	2,687.3	5,145.8
ss 532.2 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,		Total (Number)	147.0			4,335.4
ss 532.2 2, ms 47.3			147.0			4,335.4
# 47.3 # 5.0 mellitus			8.5	2,526.9	1,808.4	
* 5.0 * 5.0 Published * 5.0 lension, ress, al problems 9.4 on scare 67.3 108.1 scares of the			!!!	183.6	188.4	372.0
mellitus	2.2		0.44	191.6	413	232.0
** leation tension, ness, al problems on scase is, emphysema 108.1 30.9			e €	1177	113.0	230.7
tension, ness, al problems 57.3 2 on 86.0 scase 67.3 3 is, emphysema 67.3 3 is, emphysema 67.3 3 scase 67.3 1 30.9 1			**	10.8	36.7	47.5
oblems 57.3 9.4 86.0 42.5 aphysema 67.3 108.1 30.9	188.6		10.3	195.7	237.0	432.7
oblems 57.3 9.4 86.0 42.5 aphysema 67.3 108.1 30.9						
oblems 57.3 9.4 86.0 42.5 aphysema 67.3 108.1 30.9						
9.4 86.0 42.5 aphysema 67.3 108.1 30.9 s of the		56.9	24.8	157.5	320.1	477.6
86.0 42.5 42.5 67.3 108.1 30.9 s of the			* 4.9	36.2	72.1	108.3
42.5 nphysema 67.3 108.1 30.9 s of the	334.8 579.7		63.5	646.7	888.4	1,535.1
nitis, emphysema 67.3 a 108.1 discases of the			18.3	233.9	206.3	440.1
a 108.1 30.9 discases of the			17.5	232.0	253.5	485.5
30.9 discases of the			37.6	369.7	453.5	823.2
!	138.8 110.0		7.8	187.0	134.8	321.8
83.2		86.1	27.8	318.7	406.9	725.6
iscases 15.6	74.2 49.5		10.9	77.9	97.4	175.3
162.7	787.4 639.4		17.77	749.9	1,173.8	1,923.6
Disorders of the intervenebral disc 33.5 200	205.7 172.9	46.8	6.6	273.7	195.1	468.8
(unspecified) 145.7 723	723.1 461.0	133.5	42.2	812.5	693.0	1,505.5
Total 1,467.9 5,999.1	9.1 3,463.1	1,077.3	436.8	6,144.7	6,299.5	12,444.2

(a) Derived from self-reported height and weight: see Appendix B. (b) Reported as recent and/or long-term conditions. Each person may have reported more than one type of condition.

TABLE 5.6. PERSONS AGED 18 YEARS AND OVER: BODY MASS(a) BY SELECTED CONDITIONS REPORTED(b) BY AGE AND SEX AUSTRALIA, 1989-90
(Per cent)—continued

							Total	
Type of condition reported	Underweight	Underweight Acceptable weight	Overweight	Obese	Not available	Males	Females	Persons
			Total	Total (Per cent)				
No illness	36.3	37.1	32.6	27.9	33.6	41.1	28.7	34.8
Neoplasins	9.5	2.7	3.5	2.9	2.0	3.0	3.0	3.0
Gout	* 0.3	1.0	3.1	4,9	6'0 *	3.1	0.7	1.9
Diabetes mellitus	9.0	1.3	2.4	5.0	1.9	1.9	1.8	1.9
Obesity	*	0.1	0.5	2.0	**	0.2	9.0	0.4
High cholesterol	1.7	3.1	4.5	4.8	2.4	3.2	3.8	3.5
Nerves, tension,								
nervousness,					!	•	,	•
emotional problems	3.9	3.4	3,9	5.3	5.7	2.6	<u>.</u>	8
Depression	9.0	0.7	1.0	1.5	* 1.1	9.0	1.1	6'0
Hypertension	5.9	6.8	16.7	25.2	14.5	10.5	14.1	12.3
Heart disease	2.9	3.0	43	4.5	4.2	3.8	3,3	e. Zi
Bronchitis, emphysema	4.6	3.6	3.9	4.9	4.0	3.8	4.0	3.9
Asthma	7.4	6.4	6.0	8.2	8.6	6,0	7.2	9.9
Ulcer	2.1	2.3	3.2	3.2	1.8	3.0	2.1	5.6
Other diseases of the								
digestive system	5.7	5.2	63	8.0	6.4	5.2	6.5	80:
Kidney diseases	1.1	1.2	1.4	2.3	2.5	1.3	1.5	1.4
Arthritis	11.1	13.1	18.5	23.8	17.8	12.2	18.6	15.5
Disorders of the								
intervertebral disc	2.3	3.4	5.0	4.3	2.3	4.5	3.1	ec.
(unspecified)	6.6	12.1	13,3	12.4	2.6	13.2	11.0	12.1
Total(c)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
			4.					

(a) Derived from self-reported height and weight; see Appendix B. (b) Reported as recent and/or long-term conditions. Each person may have reported more than one type of condition. (c) Selected conditions only are shown, and therefore components do not add to totals.

TABLE 5.7. PERSONS AGED 18 YEARS AND OVER WHO CHANGED THEIR DIET(a) DURING THE LAST TWO YEARS:
REASON FOR CHANGE IN DIET(b) BY AGE BY SEX
AUSTRALIA, 1989-90
('000)

						Total	
Reason for change in diet	18 - 24	25 - 44	45 - 64	65 and over	Males	Females	Person
		Numb	per —				
fedical condition —							
Neoplasms	**	6.0	8.0	6.6	10.8	9.9	20.7
Thyroid disorders	**	* 2.0	**	**	**	* 2.5	* 3.
Gout	**	* 2.3	* 1.5	* 1.4	* 4.4	**	* 5.2
Diabetes mellitus and high blood sugar	* 3.7	17.3	37.8	36.1	45.7	49.2	94.9
High blood sugar	* 1.3	* 4.0	* 3.6	* 2.8	* 4.5	7.3	11.3
Obesity	6.1	32.9	35.2	18.2	36.6	55.9	92.
High cholesterol	* 5.2	117.4	232.9	84.1	220.0	219.7	439.0
Hypertension	**	23.7	48.0	15.0	47.5	40.4	88.0
Heart disease	**	7,7	33.0	25.6	47.7	18.5	66.3
Ulcer	* 2.3	12.0	13.9	6.8	20.2	14.8	35.0
Hernia	**	6.0	9.1	7.6	10.7	13.0	23.
	9.4	30.0	28.4	23.4	37.4	53.8	91.3
Other diseases of the digestive system	* 4.9	15.8	5.9	4.J.7	6.4	21.2	27.0
Allergy unspecified	* 4.9	19.1	J.9 **	**	U.4 **	24.0	24.0
Pregnancy supervision/ childbirth	* 4.9	19.1	• •			24.0	24.1
Total all conditions	75.5	407.7	539.1	268.2	601.9	688.7	1,290
Lose weight	127.8	363.1	210.5	61.7	270.5	492.6	763.
Improve general health	263.3	799.5	342.1	102.8	673.8	833.9	1,507.
Ageing/physical growth	56.4	28.0	59.5	108.3	134.6	117.5	252.
Change in activity levels	90.6	98. 9	58.3	36.9	175.7	109.0	284.
Other	233.6	477.7	181.1	65.4	471.1	486.8	957.
Total	847.6	2,175.7	1,390.7	643.4	2,328.5	2,728.9	5,057
		— Per c	ent				
Medical condition —							
Neoplasms	**	0.3	0.6	1.0	0.5	0.4	0.
Thyroid disorders	**	* 0.1	**	**	**	* 0.1	* 0.
Gout	**	* 0.1	* 0.1	* 0.2	* 0.2	**	* 0.
Diabetes mellitus and high blood sugar	* 0.4	0.8	2.7	5.6	2.0	1.8	1.
High blood sugar	* 0.2	* 0.2	* 0.3	* 0.4	* 0.2	0.3	0.
Obesity	0.7	1.5	2.5	2.8	1.6	2.0	1.
High cholesterol	* 0.6	5.4	16.7	13.1	9.4	8.1	8
Hypertension	**	1.1	3.5	2.3	2.0	1.5	1
Heart discase	**	0.4	2.4	4.0	2.0	0.7	1
Ulcer	* 0.3	0.6	1.0	1.1	0.9	0.5	Ō
Hernia	**	0.3	0.7	1.2	0.5	0.5	ŏ
Other diseases of the digestive system	1.1	1.4	2.0	3.6	1.6	2.0	1
Allergy unspecified	* 0.6	0.7	0.4	**	0.3	0.8	ò
Pregnancy supervision/ childbirth	* 0.6	0.9	**	**	**	0.9	ő
Total all conditions	8.9	18.7	38.8	41.7	25.8	25.2	25
Lose weight	15.1	16.7	15.1	9.6	11.6	18.1	15
Improve general health	31.1	36.7	24.6	16.0	28.9	30.6	29
	6.7	1.3	4.3	16.8	5.8	4.3	5
Ageing/physical growth	10.7	4.5	4.2	5.7	7.5	4.0	5
Change in activity levels Other	27.6	22.0	13.0		20.2	17.8	18
Total	100.0	100.0	10 0 .0	100.0	100.0	100.0	100

⁽a) Includes persons who had changed the kind and/or amount of food eaten and those who reported some other change(s) to their diet. (b) Provision was made in the survey to record only one reason for changing diet.

TABLE 5.8. PERSONS AGED 18 YEARS AND OVER WHO HAD MADE HEALTHY CHANGES TO THEIR DIET: SELECTED TYPE OF CHANGE BY AGE AND

AUSTRALIA, 1989-90 ('000)

1,421.3 1,404.4 979.4 367.3 1,448.3 1,491.8 1,228.1 1,084.9 2,488.9 2,517.9 1,776.5 829.0 2,683.0 2,713.2 2,219.6 1,912.7 2,237.1 1,067.6 1,113.4 797.1 461.7 461.7 1,234.7 1,221.4 991.5 827.8 2,728.9 5,057.3 Total 2,328.5 84.0 102.6 78.2 30.7 131.6 124.8 115.7 89.7 123.6 141.2 106.3 37.1 166.3 159.0 162.8 128.2 207.6 243.8 184.6 67.8 67.8 298.0 278.6 217.9 278.6 269.9 373.5 65 and over 264.3 276.4 234.0 73.8 357.0 365.6 228.0 228.0 45-64 623.3 350.2 350.2 306.9 81.4 405.7 421.5 365.3 386.5 626.7 626.7 540.9 155.2 762.8 787.1 649.2 534.5 767.4 1,390.7 25.44 660.7 650.2 430.5 168.5 643.8 675.7 506.7 538.5 509.2 517.1 367.7 205.4 571.2 575.4 441.2 376.4 1,028.4 1,147.3 1,169.9 1,167.3 798.2 373.9 1,214.9 1,251.1 947.9 834.2 2,175.7 Females Persons Malcs 18 - 24 210.1 217.3 117.2 117.2 151.8 174.9 155.5 150.7 133.7 407.0 259.6 262.8 135.6 135.6 80.3 232.5 235.6 193.2 208.5 469.7 480.1 252.8 232.1 407.4 391.2 343.9 326.1 440.7 847.6 Increased fresh fruit (including fruit juices) Increased fresh fruit (including fruit juices) increased fresh fruit (including fruit juices) Decreased cakes, pastries and desserts Decreased cakes, pastnes and desserts Occreased cakes, pastrics and desserts Selected healthy changes to diet Decreased fat on meat Decreased fried foods Decreased fat on meat Decreased fried foods Decreased fat on meat Decreased fried foods Increased vegetables increased vegetables increased vegetables Decreased salt Decreased sugar Decreased sugar Decreased sugar increased bread Increased bread increased bread Decreased salt Increased fish Decreased salt Increased fish increased fish Total Total Total

TABLE 5.8. PERSONS AGED 18 YEARS AND OVER WHO HAD MADE HEALTHY CHANGES TO THEIR DIET: SELECTED TYPE OF CHANGE BY AGE AND SEX
AUSTRALIA, 1989-90
(Per cent)

Selected healthy changes to diet	18 - 24	25 - 44	45 - 64	65 and over	Total
		Males		:	
Increased vegetables	51.6	49.5	42.4	31.1	45.8
Increased fresh fruit (including fruit juices)	53.4	50.3	44.4	38.0	47.8
Increased fish	28.8	35.8	37.5	29.0	34.2
Increased bread	37.3	20.0	11.8	11.4	8.61
Decreased fat on meat	43.0	55.5	57.3	48.8	53.0
Decreased fried foods	38.2	56.0	58.7	46.3	52.5
Decreased salt	37.0	42.9	45.6	42.9	42.6
Decreased sugar	32.8	36.6	36.6	33.2	35.6
Decreased cakes, pastries and desserts	40.3	38.3	42.6	40.0	40.0
Total	0'001	100.0	100.0	100.0	0.001
		Females			
Increased vegetables	58.9	57.6	49.2	33.1	52.1
Increased fresh fruit (including fruit juices)	59.6	56.7	45.6	37.8	51.5
Increased fish	30.8	37.5	40.0	28.5	35.9
Increased bread	18.2	14.7	10.6	6.6	13.5
Decreased fat on meat	52.8	56.1	52.9	44.5	53.1
Decreased fried foods	53.5	58.9	54.9	42.6	54.7
Decreased salt	43.8	44.2	47.6	43.6	45.0
Decreased sugar	43.7	39.9	39.9	34.3	39.8
Decreased cakes, pastries and desserts	47.3	46.9	50.6	45.7	47.8
Total	100.0	100.0	100.0	100.0	100.0
		Persons	:		
Increased vegetables	55.4	53.8	46.1	32.3	49.2
Increased fresh fruit (including fruit juices)	56.6	53.7	45.1	37.9	49.8
Increased fish	29.8	36.7	38.9	28.7	35.1
Increased bread	27.4	17.2	11.2	10.5	16.4
Decreased fat on meat	48.1	55.8	54.8	46.3	53.1
Decreased fried foods	46.2	57.5	56.6	44.1	53.6
Decreased salt	40.6	43.6	46.7	43.3	43.9
Decreased sugar	38.5	38.3	38,4	33.9	37.8
Decreased cakes, pastries and desserts	44.0	42.8	47.0	43.3	44.2
Total	100.0	100.0	100.0	100.0	100.0

APPENDIX A

EXPLANATORY NOTES

Introduction

- 1. The 1989-90 National Health Survey is the first in a new series of five yearly health surveys to be conducted by the ABS. The aim of the 1989-90 survey was to obtain information about the health status of Australians, their use of health services and facilities and about health related aspects of their lifestyle such as smoking, alcohol consumption and exercise. The survey was conducted throughout the twelve month period October 1989 to September 1990.
- 2. Similar national surveys covering health status and the use of health services were conducted by the ABS in 1977-78 and 1983. A national survey relating to alcohol and tobacco consumption patterns was conducted in 1977.

Scope and Coverage

3. The estimates contained in this publication are based on information obtained from residents of a sample of 22,202 private dwellings (houses, flats, etc.) and non-private dwellings (hotels, motels, boarding houses, caravan parks, etc.)

State/Territory	Private and special dwelling units	Approximate Sampling Fraction
NSW	6,403	1/320
Vic.	5,934	1/250
Qld	3,108	1/320
SA	2,189	1/230
WA	2,304	1/230
Tas.	1,696	1/100
NT	160	1/230
ACT	408	1/230
Australia	22,202	1/300

Households were selected at random using a stratified multi-stage area sample which ensured that persons within each State and Territory had a known and, in the main, an equal chance of selection in the survey.

- 4. At the request of the Health authorities in New South Wales, Victoria and Tasmania, the survey sample in those States was increased to enhance the reliability of estimates.
- 5. Certain groups of persons such as non-Australian diplomatic personnel, persons from overseas holidaying in Australia, members of non-Australian defence forces and their dependents stationed in Australia, students at boarding schools, and institutionalised persons (including inpatients of hospitals, nursing homes, etc.) were excluded from the survey.

Survey Method and Content

6. Trained ABS interviewers conducted personal interviews with residents of selected dwellings. Each person aged 18 years or more was interviewed personally, with the exception of persons too old or sick. Persons aged 15 to 17 years were interviewed with the consent of a parent or

guardian: otherwise, a parent or guardian was interviewed on their behalf. For persons aged less than 15 years, information was obtained from a person responsible for the child (usually the mother).

- 7. Women aged 18 to 64 years were invited to complete an additional questionnaire relating to selected women's health issues.
- 8. Topics covered in the survey were:
 - · recent illness
 - long-term conditions
 - self-assessed health status
 - inpatient episodes in hospital
 - visits to casualty/outpatient units at hospitals
 - doctor consultations
 - dental consultations
 - consultations with other health professionals
 - · children's immunisation
 - rubella immunisation
 - use of medications, including vitamins/minerals and sunscreens
 - days away from work/school
 - other days of reduced activity
 - smoking
 - alcohol consumption
 - exercise
 - dietary changes
 - · height and weight
 - · women's health issues
 - injury accidents

An extensive range of demographic and socio-economic information was also obtained.

- 9. The approaches used to collect this information varied as appropriate to the topic, and where possible, in accordance with approaches used in previous surveys in order to provide comparability of data. The design of the survey enables linkages to be established between medical conditions, actions taken as a consequence of those conditions and lifestyle behaviours. For example, the approach adopted for the collection of information about recent illness was to ascertain whether a range of health-related actions was taken in the two weeks prior to interview and to record the various reasons for those actions, including the specific illness or injury involved, and other reasons such as preventive health measures. This 'actions-based' approach is similar to that used in the 1983 Australian Health Survey.
- 10. Definitions for those items covered in this publication are provided in Appendix B. Comprehensive details of all the concepts, methodologies and procedures used in this survey are provided in 1989-90 National Health Survey: Users' Guide (4363.0) released in June 1991.

Classification of medical conditions

- 11. All medical conditions (and other reasons for taking health-related actions) reported were classified to a list of 104 selected conditions, symptoms, treatments, etc. developed for this survey. This classification is based on the International Classification of Diseases (ICD), 9th Revision (WHO, 1975) but was modified to take account of the types and quality of information likely to be reported in the survey. In general, fairly broad classification groups have been used. Special codes were created for some non-illness reasons for action (e.g. check-up, preventive measures) and for some frequently reported conditions which could not be reliably coded to ICD categories because insufficient detail was provided (e.g. back problems, virus, infection). A similar classification was used for the 1983 Australian Health Survey. In the 1977-78 survey, conditions were classified directly to the ICD, 8th Revision. As a result of the different classifications used care should be taken in comparing results between surveys. Details of the classification and associated coding procedures are contained in 1989-90 National Health Survey: Users' Guide (Cat. No. 4363.0).
- 12. The full classification of conditions is not shown in this publication. Instead, in the main a sub-set of conditions has been selected, reflecting those conditions which are known or suspected of being associated with lifestyle behaviours. This focus should be borne in mind in interpreting comments contained in the publication about the association of behaviours with types of conditions

Estimation procedures

13. Estimates derived from the survey are obtained by using a complex ratio estimation procedure which ensures that the survey estimates conform to an independently estimated distribution of the population by age and sex, rather than to the age and sex distribution within the sample itself. Since the survey was conducted over a 12

month period, estimates were made to conform to the distribution for each quarter of the year.

Reliability of estimates

- 14. Since the estimates are based on a sample they are subject to sampling variability (see Appendix C for further details). In this publication only estimates with relative standard errors less than 25 per cent are considered sufficiently reliable for most purposes. However estimates with relative standard errors between 25 and 50 per cent have been included and are preceded by an asterisk (e.g. *4.3) to indicate they are subject to high standard errors and should be used with caution. Estimates with relative standard errors greater than 50 per cent have not been shown as they are considered too unreliable for use. These estimates have been replaced by two asterisks (**).
- 15. In addition to sampling errors, the estimates are subject to non-sampling errors. These may be caused by errors in reporting (e.g. because some answers were based on memory, or because of misunderstanding or unwillingness of respondents to reveal all details) or errors arising during processing (e.g. coding, data recording). Such errors may occur in any statistical collection whether it is a full census count or a sample survey. Every effort is made to reduce non-sampling errors in the survey to a minimum by careful design and testing of questionnaires, by intensive training and supervision of interviewers, and by efficient operating procedures.

Interpretation of results

- 16. The following factors should be considered in interpreting the estimates in this bulletin:
- (a) Information recorded in this survey is essentially 'as reported' by respondents, and hence may differ from that which might be obtained from other sources or via other methodologies. In particular;
 - reported information on medical conditions was not medically verified, and was not necessarily based on diagnoses by a medical practitioner. Conditions which have a considerable effect on people are likely to be better reported than those which have little effect. Some people may be unaware of minor conditions, or indeed of serious conditions which they may have but have not been diagnosed as, or advised of, having. It is also probable that in some instances conditions which respondents were unwilling to talk about at an interview were not reported.
 - results of previous surveys of alcohol and tobacco consumption using similar methodologies to those used in this survey suggest a tendency for respondents to under-report actual consumption levels.
- (b) The exclusion from the survey of people currently in hospitals, nursing homes and other institutions will have affected the results.

- (c) In terms of the methodologies used, data from this survey are broadly comparable with data from previous ABS national health and related surveys in the following areas:
 - Recent illness
 - 1983 Australian Health Survey
 - Chronic illness
 - 1977-78 Australian Health Survey
 - Health-related actions
 - 1983 Australian Health Survey
 - Alcohol consumption/Smoking
 - 1977 Alcohol and Tobacco Consumption Patterns Survey

In addition a number of surveys relating to topics covered in the 1989-90 NHS and using similar methodologies have been conducted by the ABS in individual States and Territorics. However, in all cases comparisons should be made with care since minor changes to the approaches used, together with changes in community awareness and attitudes to health issues may have influenced the responses provided.

Related Publications

17. Information about other publications released or planned for release from the 1989-90 NHS is contained in Appendix E. Other ABS publications which may be of interest include:

Health Insurance Survey, Australia. June 1992 (4335.0)

Australian Health Survey, Australia, 1983 (4311.0)

Australian Health Survey, 1983 Illness Conditions Experienced (4356.0)

Australian Health Survey, 1983 Health-Related Actions Taken by Australians (4358.0)

Surveyy of Disability, Aging and Carers, Australia, 1993

- Summary of Findings (4430.0)
- Data Reference Package (4432.0)

Current publications produced by the ABS are listed in the Catalogue of Publications and Products. Australia (1101.0). The ABS also issues, on Tuesdays and Fridays, a Publications Advice (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

Unpublished statistics

18. As well as the statistics included in this and related publications, the ABS may have other relevant, unpublished data available. Inquiries should be made to the contact shown at the front of this publication.

Symbols and other usages

- * relative standard error between 25 and 50 per cent
- ** nil or subject to sampling variability too high for most practical uses. See Appendix C.
- п.a. not available
 - .. not applicable
- n.e.c. not elsewhere classified
- n.o.s. not otherwise specified
- 19. Estimates have been rounded and discrepancies may occur between sums of the component items and totals.

APPENDIX B DEFINITIONS

The following definitions apply to selected items covered in the statistics contained in this publication. Further information about item definitions, concepts, methodologies and procedures used in this survey are contained in the publication 1989-90 National Health Survey: Users' Guide (4363.0) which is available from any ABS office at a price of \$30.00.

Data items and their definitions

Health risk factors

A great variety of social, economic and environmental, as well as aetiological, factors are recognised as increasing the risk of ill-health i.e. the chance an individual has of developing a particular illness or injury. The survey addressed only a selection of known health risk factors, and those covered in the statistics contained in this publication are outlined below. While data from the survey may suggest apparent associations between particular risk factor(s) and certain illness condition(s), the data should not be interpreted as proof of causal relationships. Rather the survey results can assist in quantifying clinical relationships already established by other means, and point to other areas for investigation and research.

Alcohol consumption refers to consumption of alcoholic drinks, and focuses on the intake of alcohol derived from information about the types of quantities of alcoholic drinks consumed on each of the seven days prior to interview. Homemade wines and beers were included.

The approach used was to determine whether or not respondents had consumed alcohol on each of the previous seven days before proceeding to obtain details of the type and quantity of drinks consumed.

Respondents were asked if in the last seven days they had consumed any drinks containing alcohol. Those respondents who answered 'yes' were asked for each of those seven days whether they had consumed alcohol, the type of drink(s) they had, the quantities consumed of each type and whether the total amount consumed in that week was more, less or about the same as usual. The period since last drank alcohol was collected for persons who did not drink in the seven days prior to interview.

Indicators of relative health risk were derived from the average daily amount of alcohol consumed over the reference week. According to average daily intake, respondents were grouped into three categories of relative risk level based on recommendations of the National Health and Medical Research Councial (NH&MRC).

	Consumption per day				
Risk level	Male	Female			
Low	Less than 50ml	Less than 25 ml			
Medium	50-75mi	25-50ml			
High	Greater than 75 ml	Greater than 50 ml			

Recommendations expressed in grams of absolute alcohol per day have been converted to millilitre equivalents using the ratio lml=0.80g.

It should be noted however that the NH&MRC recommendations relate to consumption on a regular basis, whereas indicators derived in the 1989-90 NHS relate to consumption only during the reference week and take no account of whether consumption in that week was more, less or similar to usual consumption levels.

Smoking refers to the regular smoking of tobacco, including manufactured (packet) cigarettes, roll-your-own cigarettes, cigars and pipes, but excludes chewing tobacco and smoking of non-tobacco products. 'Regular' was defined as one or more cigarettes (or pipes or cigars) per day on average as reported by the respondent.

Respondents were asked whether they currently smoke or have ever smoked regularly. In either case details were obtained about type of smoking (cigarettes, cigars and/or pipes), age commenced regular smoking, and for current and ex-smokers of packet cigarettes the number usually smoked in a day. For persons whose smoking patterns vary from day to day, the average daily consumtpion over a week was recorded. Any cigarette lighted was counted as smoked even if only one puff was taken.

The tar and nicotine content of the packet eigarettes usually smoked was recorded for current smokers enabling the calculation of daily tar and nicotine intake. Tar and nicotine content recorded was 'as reported' by the respondent, often with reference to details printed on the eigarette packet. Where tar/nicotine content were unknown to the respondent and a eigarette packet was not available or not labelled (e.g. imported eigarettes) the tar and nicotine content were recorded as not known.

For ex-smokers of packet cigarettes the age at which they last gave up smoking and the reasons for giving up were recorded. Stated reasons were categorised by interviewers according to an eight point classification derived from previous surveys and verified by testing. Persons were recorded against one or more reasons as appropriate. Respondents were also asked to identify the main reason from among those they had given.

Exercise refers to physical exercise undertaken for recreation, sport or health/fitness purposes during the two weeks prior to interview. The topic does not include physical activity undertaken in the course of work or for reasons other than recreation, sport or health/fitness.

Respondents were asked whether, during the two weeks, they did any ---

- walking for exercise or recreation
- moderate exercise
- vigorous exercise

For each of these categories, respondents were asked the number of times they had exercised in the previous two weeks and the total amount of time spent (hours and minutes) on exercise in each of those categories over that two weeks.

For the purposes of the survey, moderate exercise was defined as exercise or other activities (undertaken for recreation, sport or fitness) that caused a moderate increase in the heart rate or breathing of the respondent. Vigorous exercise was defined as exercise or other activities (as above) that caused the respondent to perspire and/or resulted in a large increase in the respondent's heart rate or breathing.

From the information recorded about the frequency, duration and intensity of exercise, an 'exercise level' of low, medium and high was derived for each respondent who reported some exercise in the previous two weeks. The aim was to produce a single descriptor of relative overall exercise level, and to indicate the quality of the activities undertaken in terms of maintaining heart, lung and muscle fitness. The level is based on a score derived from:

No of times Average time activity undertaken X per session X Intensity

where Intensity is a measure of the energy expenditure required to carry out the exercise, expressed as a multiple of the resting metabolic rate. Because the NHS did not collect details of the types of activities undertaken an intensity value was estimated for each of the three categories of exercise identified in the survey; the values applied were 3.2 for walking, 5.7 for moderate exercise and 8.5 for vigorous exercise.

A score was derived for each of the three categories of exercise and then summed to provide a total for the respondent for that two week period. Respondents were grouped into levels as follows:

Score less than 1500 = low Score 1500 to 3250 = medium Score more than 3250 = high

These groupings, referred to as Exercise Level, are consistent with those used in published output from a series of six surveys on the physical activity patterns of Australians commissioned by the then Department of Sport, Recreation and Tourism in 1984.

Height and weight refers to the height (without shoes) and weight (without clothes and shoes) of respondents, as reported during the interview. No measurements of height and weight were taken as part of this survey.

Women who were pregnant at the time of interview were asked to provide their usual weight before pregnancy.

Persons were categorised into four groups according to their body mass, derived using the formula weight (kg) divided by the square of height (m²). The groups used as shown below, are consistent with the recommendations of the NH&MRC as applied in the National Heart Foundation 1989 Risk Factor Prevalence Study. The criteria defining these groups differs from that applied in defining data for groups shown in the publication 1989-90 National Health Survey: Summary of Results (4364.0) and hence the estimates are not directly comparable.

	Body mass index score
Underweight	Less than 20
Acceptable weight	20 to 25
Overweight	Greater than 25 to 30
Obese	Greater than 30

Dietary changes refer to changes in the kind or amount of foods eaten or drunk, or to other changes respondents reported making in their diet during the two years prior to interview. Included is information about the reasons for change and selected types of changes made.

The topic therefore provides indicators of selected current dietary behaviours, but does not seek to describe food consumption levels or patterns, or nutritional intake.

Respondents were asked whether, during the previous two years, they had changed the quantity or type of food eaten or drunk, or made any other changes to their diet. These questions related to sustained changes only. For example, if a respondent reported they had decreased the amount eaten for a few months but had now returned to their previous diet, they were recorded as having made no change.

Respondents who reported that they had made a sustained change in the quantity or type of food they eat or drink were asked the reason for the change (medical condition or other reasons such as to lose weight, improve general health, etc.). Only one reason was recorded for each respondent. Reported medical conditions were coded according to the classification and procedures used for coding recent and long-term illness elsewhere in the survey.

The respondents were further asked whether they had changed the amount eaten of selected foodstuffs.

For each of the foodstuffs responses were recorded as increased, decreased, stayed the same, or does not consume, as appropriate to the information provided by respondents. Again, only sustained changes were recorded as increased or decreased. The category 'does not consume' refers to the respondent's diet at the time of the interview, not necessarily in respect of the full two year reference period. A respondent who, for example, reported that they stopped eating fried foods during the reference period was recorded against the category 'does not consume' rather than 'decrease'.

The data are essentially 'as reported' by respondents. Although the use of a two year period may have some effect on the accuracy of reporting it was not expected to have a significant effect bearing in mind the deliberate and sustained types of dietary change sought in the survey.

Self assessed health status refers to the overall level of health as reported by respondents aged 18 years or more.

Recent illnesses are medical conditions (illness, injury or disability) experienced in the two weeks prior to interview. They may include long-term conditions experienced in the period.

Long-term conditions are medical conditions (illness, injury or disability) which have lasted or are expected to last for six months or more. Include:

- long-term conditions from which the respondent experienced infrequent or spasmodic attacks e.g. asthma.
- long-term conditions which may be under control through use of medications or other treatment e.g., diabetes, epilepsy.
- conditions which, although present, may not be generally considered illness because they are not necessarily debilitating e.g. reduced eyesight.
- long-term and permanent impairments or disabilities.

APPENDIX C

TECHNICAL NOTE ON SAMPLING VARIABILITY

Estimation procedure

Estimates derived from the survey are obtained using a complex ratio estimation procedure which ensures that the estimates conform to an independently estimated distribution of the population by age and sex rather than to the age and sex distribution within the sample itself.

Reliability of the estimates

Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings they are subject to sampling variability; that is they may differ from the figures that would have been produced if all dwellings had been included in the survey. One measure of the likely difference is given by the standard error (SE), which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings was included. There are about two chances in three that a sample estimate will differ by less then one standard error from the figure that would have been obtained if all dwellings had been included, and about nineteen chances in twenty that the difference will be less than two standard errors. Another measure of the likely difference is the relative standard error, which is obtained by expressing the standard error as a percentage of the estimate.

Space does not allow for the separate indication of the standard errors of all estimates in this publication. A table of standard errors and relative standard errors for estimates of numbers of persons is given in Table A. These figures will not give a precise measure of the standard error or a particular estimate but they will provide an indication of its magnitude. An example of the calculation and use of standard errors follows.

As can be seen from the standard error table, the smaller the estimate the higher is the relative standard error. Very small estimates are thus subject to such high standard errors (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. In the tables in this publication, estimates less than the lowest levels shown in the standard error table have not been published. Although figures for these small components can in some cases be derived by subtraction they should not be regarded as reliable.

Standard errors of rates and percentages

The standard error of an estimated percentage or rate computed by using sample data for both numerator and denominator, depends upon both the size of the numerator and the size of the denominator. However, the relative standard error of the estimated percentage or rate will generally be lower than the relative standard error of the estimate of the numerator.

Approximate standard errors of rates or percentages may be derived by first obtaining the relative standard error of the number of persons corresponding to the numerator of this rate or percentage and then applying this figure to the estimated rate or percentage. An example of this calculation follows: The rate of chronic conditions of the respiratory system as published in 1989-90 National Health Survey: Summary of Results (Cat No. 4364.0), is 219.8 per 1,000 persons and the numerator of this rate is 3,733,500 which has a relative standard error of 0.7 per cent. By interpolation from Table A, the standard error of this rate of 219.8 can then be approximated by:

Rate x Relative standard error

 $= 219.8 \times 0.7/100$

= 1.5

Therefore there are two chances in three that the rate that would have been obtained if all dwellings had been included in the survey is in the range 218.3 to 221.3 per 1,000 persons and about nineteen chances in twenty that it is in the range 216.8 to 222.8 per 1,000 persons.

Published figures may also be used to estimate the difference between survey estimates (of numbers or percentages). Such a figure is itself an estimate and is subject to sampling error. The sampling error of the difference between two estimates depends on their standard errors and the relationship (correlation) between them. An approximate standard error (SE) of the difference between two estimates (x-y) may be calculated by the following formula:

RSE
$$(x-y) = \sqrt{[SE(x)]^2 + [SE(y)]^2}$$

While this formula will only be exact for differences between separate and uncorrelated characteristics or sub-populations it is likely to be of interest in this publication.

The imprecision due to sampling variability, which is measured by the standard error, should not be confused with inaccuracies that may occur because of imperfections in reporting by interviewers and respondents and errors made in coding and processing of data. Inaccuracies of this kind are referred to as the non-sampling error, and they may occur in any enumeration, whether it be in a full count or only a sample.

TABLE A. STANDARD ERRORS AND RELATIVE STANDARD ERRORS FOR ESTIMATES OF PERSONS STATES AND TERRITORIES

Size of								-	Australia	
<u>estimate</u>	NSW	Vic.	Qld	SA	WA	<u>Ta</u> s.	NT	ACT	SE	RSE%
400 500						210 .				NDE %
600						230				
700			•-			260				
800						280		360		
900						290		390		
1,000			_			310	<u>450</u>	410		
1,100			_	<u> 510</u>		330	480	430		
1,200		610		530 550		340	500	450		
1,300		630		570 570	<u>_620</u>	360	520	460	610	50.9
1,400		660		590	650 670	370	540	480	640	49.0
1,500		680	760	610	670 690	380	550	490	660	47.4
1,600	810	700	$\frac{-790}{790}$	630	710	390	570	510	69 0	45.9
1,700	840	720	810	650	710 740	<u> 410</u>	590	520	710	44.6
1,800	860	740	830	670	750	420	610	540	740	43.4
1,900	880	760	850	690	770	430 440	620	550	760	42.2
2,000	910	780	870	700	790	450	640	560	780	41.2
2,100	930	800	900	720	810	450 460	650 670	580	800	40.2
2,200	950	820	920	730	830	470	670 680	590	830	39.3
2,300	970	840	940	750	850	480	690	600	850	38.4
2,400	990	860	950	760	860	480	710	610	870	37.7
2,500	1,000	870	970	780	880	490	720	620 640	890	36.9
3,000	1,100	950	1,050	850	- 950	530		<u> 690</u>	910	36.2
3,500	1,200	1,050	1.150	<u>910</u>	1,000	570	840	730	1,000	33.2
4,000	1,250	1,100	1,200	970	1,100	600	890	770	1,100 1,150	30.8
4,500 5,000	1,350	<u> 1.150</u>	1,300	1,000	1,150	630	940	810	1,130	28.9
5,000 5,000	1,400	1,200	<u> 1.350</u>	1,050	1,200	650	990	850	1,200 _1,300	27.3
3,000 3,000	1,500	1,300	1,450	1,150	1,300	700	1,100	920	$\frac{1,300}{1,400}$	25.9 23.7
10,000	1,750	1,500	1,650	1,300	1,450	780	1,250	1,050	1,650	20.5
20,000	1,900 2,600	1,650	1,850	1,450	1,600	850	1,350	1,150	1,850	18.4
30,000	3,100	2,300	2,500	1,950	2,200	1,100	1,900	1,500	2,550	12.8
10,000	3,500	2,700	2,950	2,300	2,600	1,250	2,250	1,750	3,100	10.4
0,000	3,850	3,050	4,850	2,550	2,900	1,350	2,600	1,950	3,550	8.9
.00,000	5,100	3,350 4,500	3,700	2,800	3,150	1,450	2,900	2,100	3,950	7.9
200,000	6,700	4,500 5,900	3,350	3,650	4,150	1,750	4,000	2,700	5,400	5.4
00,000	7,900	6,800	6,400	4,750	5,400	2,050	5,600	3,450	7,200	3.6
00,000	8,800	7,600	7,500 8,300	5,500	6,300	2,250		3,950	8,500	2.8
00,000	9,500	8,300	9,000	6,100	7,000	2,350			9,600	2.4
,000,000	12,200	10,600	11,600	6,600	7,600				10,500	2.1
,000,000	15,500	13,300	14,700	8,300	9,700				13,700	1.4
,000,000	20,900	17,900	19,800	10,400	12,300				17,700	0.9
0,000,000	25,900	22,000	17,000						24,500	0.5
0,000,000		22,000							30,800	0.3
					<u></u>				38,300	0.2

APPENDIX D

PUBLICATIONS AND DATA SERVICES AVAILABLE FROM THIS SURVEY

Data availability

Results from the 1989-90 NHS are available in the form of:

- publications and other releases of standard sets of tables;
- unidentifiable unit records, available on magnetic tape, or floppy disk and;
- tables produced on request to meet specific information requirements from the survey.

Information about the range of proposed products and services available is contained in the brochure 1989-90 NHS - Products and Services, which is available free of charge from any office of the ABS. Publications and other standard products may be obtained:

- by completing the order form contained in the brochure and forwarding it, together with payment, to the address shown, or
- by contacting Information Services at the ABS office in your State.

Unpublished data can be made available on request to -

- The Director, Social Statistics at the ABS office in your State, or
- The Director, Health Section at ABS Canberra.

Publications and other standard releases

Selected results of the 1989-90 NHS are contained in the following:

Summary of Results (4364.0)

Released - August 1991 Price - \$20.00

The publication provides an overview of Australia's health through the use of key indicators of health status, use of health services and facilities and health related aspects of lifestyle.

Contains a cross-section of results including information on recent and long-term (chronic) illnesses experienced, consultations with doctors and other health professionals, use of medications and other actions taken as a result of illness and injury.

Information describing the levels and patterns of alcohol consumption, smoking and exercise is also provided.

__ Health Status Indicators (4370.0)

Released - January 1992 Package Price - \$100.00

This package comprises 30 national tables which describe the prevalence and types of recent and long-term illness and injury experienced in the community. Illness and injury is cross-classified by a range of demographic and socio-economic characteristics and selected other topics covered in the survey.

This set of tables is available in printed form or on floppy disk.

The package includes a copy of each of the following specialised publications which contain information focusing on particular medical conditions:

- Diabetes (4371.0)
- Cardiovascular Conditions (4372.0)
- Asthma and other Respiratory Conditions (4373.0)
- Musculoskeletal Conditions (4374.0)

For users who do not wish to purchase the whole package, these publications are separately available at a cost of \$5.00 cach.

Tables, similar to the national set but compiled separately for each State, are also available at a cost of \$80.00 per State.

Health-Related Actions (4375.0)

Released - January 1993 Package Price - \$100.00

This package comprises approximately 30 detailed national tables which describe actions people take about their health, and in particular, actions taken as a consequence of illness or injury. Information includes consultations with doctors, dentists and other health professionals, use of medications, days away from work or school and hospital episodes.

This set of tables is available in printed form or on floppy disk.

The package includes a copy of each of the following specialised publications which contain information focusing on particular medical conditions:

- Consultations with Health Professionals (4376.0)
- Use of Medications (4377.0)
- Screening for Breast and Cervical Cancer (4378.0)
- Children's Immunisation (4379.0)

For users who do not wish to purchase the whole package, these publications are separately available at a cost of \$5.00 each.

Tables, similar to the national set but compiled separately for each State, are also available at a cost of \$80.00 per \$100.00

Health Risk Factors (4380.0)

Released - May 1992 Package Price - \$100.00

This package comprises 52 national tables which describe the levels and patterns of alcohol consumption, smoking and exercise in the population. Also included is information on height and weight and dietary changes. Tables contain cross-classifications by a range of demographic and socio-economic characteristics and selected other characteristics.

This set of tables is available in printed form or on floppy disk.

The package includes a copy of each of the following specialised publications which contain information focusing on particular health risk factors:

- Alcohol Consumption (4381.0)
- Smoking (4382.0)
- Exercise (4383.0)
- Accidents (4384.0)

For users who do not wish to purchase the whole package, these publications are separately available at a cost of \$5.00 each.

Tables, similar to the national set but compiled separately for each State, are also available at a cost of \$80.00 per State.

Women's Health (4365.0)

Expected Release - Early 1994 Price - \$30.00

This publication covers the health status of women, their use of health services and health-related aspects of their lifestyle as described by the National Health Survey. Information on the use of screening techniques for breast and cervical cancer and the use of contraceptives and breastfeeding is included. In addition, the report will draw on data from other sources to address aspects of women's health such as fertility, causes of death and disability and ageing.

Special data services

As well as releasing information in publications and other standard formats, information from the survey is available in the form of:

- special tabulations produced on request to meet individual user requirements. These can be provided in printed form or on floppy disk.
- unidentified unit record data on magnetic tape.

Special tabulations

Subject to confidentiality and sampling variability constraints, tabulations can be produced from the survey incorporating data items, populations and geographic areas selected to meet individual requirements. Listings of output data items from the survey which can be used in the specification of tables are available.

All requests for special tabulations attract a service charge in addition to the charges arising from the table production.

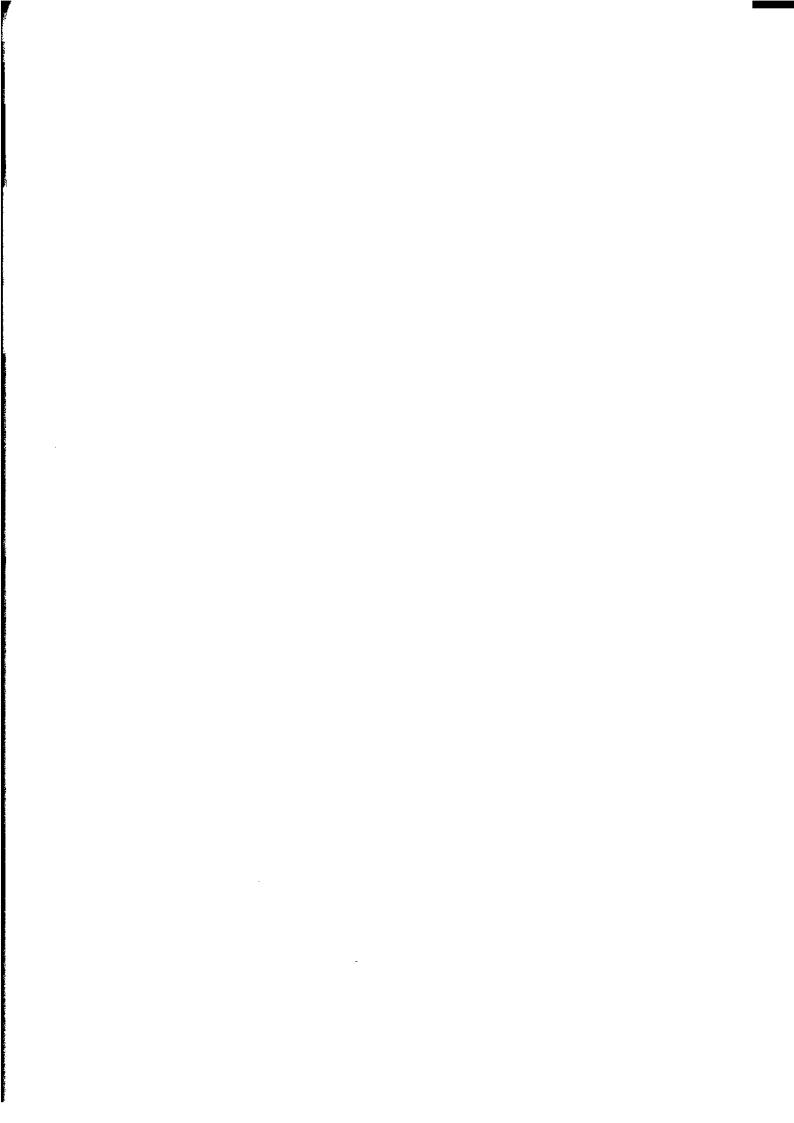
Unit record data

For users who wish to produce their own tabulations and to conduct manipulations of survey data, a computer file on magnetic tape containing unidentified records from the survey can be purchased.

To protect the confidentiality of individual persons and families some data items have been removed from particular records and the level of detail for some items has been reduced.

The national unit record file for the survey is available at a cost of \$5,000 plus a service fee of \$100; unit record files for individual States are available at \$1000 each.

An information paper describing the data content of the file and conditions relating to the use of unit record data is available. Copies of this information paper can be obtained free of charge from any office of the ABS.





For more information ...

The ABS publishes a wide range of statistics and other information on Australia's economic and social conditions. Details of what is available in various publications and other products can be found in the ABS Catalogue of Publications and Products available at all ABS Offices (see below for contact details).

Information Consultancy Service

Information tailored to special needs of clients can be obtained from the Information Consultancy Service available at ABS Offices (see Information Inquiries below for contact details).

National Dial-a-Statistic Line

0055 86 400

(Steadycom P/L: premium rate 25c/21.4 secs.)

This number gives 24-hour access, 365 days a year for a range of statistics.

Electronic Data Services

Selections of most frequently requested statistics are available, updated daily, on DISCOVERY (Key *656#). For more details on electronic data services available, contact Information Services in any of the ABS Offices (see Information Inquiries below for contact details).

Bookshops and Subscriptions

There are over 500 titles of various publications available from ABS bookshops in all ABS Offices (see below Bookshop Sales for contact details). The ABS also provides a subscription service through which nominated publications are provided by mail on a regular basis at no additional cost (telephone Publications Subscription Service toll free on 008 02 0608 Australia wide).

Sales and Inquiries

Regional Offices		Information Inquiries	Bookshop Sales			
SYDNEY	(02)	268 4611	268 4620			
MELBOURNE	(03)	615 7000	615 7829			
BRISBANE	(07)	222 6351	222 6350			
PERTH	(09)	323 5140	323 5307			
ADELAIDE	(08)	237 7100	237 7582			
HOBART	(002)	20 5800	20 5800			
CANBERRA	(06)	207 0315	207 0315			
DARWIN	(089)	43 2111	43 2111			
National Office						
ACT	(06)	252 6007	008 020 608			

ABS Email Addresses

Keylink STAT.INFO/ABS
X.400 (C:AU,A:TELMEMO,O:ABS,SN:INFO,FN:STAT)
Internet STAT.INFO@ABS. TELEMEMO.AU

