

Contents

<i>Preface</i>	ix
<i>Acknowledgements</i>	xiii
1 Beer as Part of the Diet	1
Beer: a vice or a staple part of the diet?	2
Getting beer into perspective	13
What is moderation?	18
But what about addiction?	20
Impacts on behaviour	25
2 Beer Through History	30
Brewing travels west	32
Restraining excess	33
Religious origins	34
Maintaining standards	35
Beer: a nutritious dish for the whole family	37
Temperance pressures	42
Towards prohibition	45
3 The Basics of Malting and Brewing: Product Safety and Wholesomeness	49
Chemical beer?	49
Basic outlines of malting and brewing	63
Styles of beer	69
The chemistry of beer	71
4 The Basics of Human Nutrition	86
Energy	86
Phytonutrients	91
Carbohydrate, fat and protein	91

Vitamins	92
Minerals	93
Fibre	94
Water	95
Balance	95
5 The Composition of Beer in Relation to Nutrition and Health	96
Energy	97
Carbohydrate, fat and protein	105
Water	106
Vitamins	106
Minerals	109
Fibre	112
Comparison of beer with other foodstuffs for nutrient value	112
Potentially deleterious components of beer	116
Beer as a 'treat'	117
6 The Impact of Alcohol on Health	120
The metabolism of ethanol	122
Direct and indirect impacts	123
The heart and the circulatory system	124
The liver and the digestive system	135
The reproductive system	139
Brain and cognitive function	142
Kidney and urinary tract	146
Age	147
Cancer	149
Allergy	153
The common cold	154
7 Conclusion	155
References	159
<i>Index</i>	179