

can be reduced. Under the anspices of the World Health Organization, an international group

of scholars analyzes the many sides of the picture, with a focus on Africa, Latin America

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sewhere. Through controls and other prevention measures, the burden of disease and disability

but alcohol is also a major source of health and social problems, in developing societies as

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Charles Parry, Juba Partanen, Leanne Riley and Shekhar Saxena BINNISH FOUNDATION FOR ALCOHOL STUDIES

in collaboration with THE WO

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ALCOHOL IN DEVELOPING SOCIETIES: A PUBLIC HEALTH APPROACH

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## ALCOHOL IN DEVELOPING SOCIETIES: A PUBLIC HEALTH APPROACH

# ALCOHOL AND THE DEVELOPING WORLD: A PUBLIC HEALTH PERSPECTIVE

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DRINKING PATTERNS IN DEVELOPING COUNTRIES

The cultural position of drinking

Between the culture and individual patterns: drinking customs

79 79

73 75 77

Chapter Five

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Conclusion	Alcohol in globe	Boofft and 1	Alcoholic horror	Developing con	Alcoholic bever	Introduction	Chapter Four		Conclusion	Estimating alc	GLOBAL PATTERNS AND CONSUMPTION	Chapter Three	Conclusion	Social trends	Economic trends	Emerging stru	The burden of	Alcohol in human history	DRINKING IN	Chapter Two	Natural exper	Alcohol consu	The diverse uses of alcohol	INTRODUCTION	Chanter One	PREFACE
Conclusion	Alcohol in orleast from the industrialization of alcohol production	Ronoff and 1 1 Control of the Personal Section of the	Alcoholic becomes in January and the globalization of alcohol industries	mbes as commodules	Alcoholic beverages as commodition	Introduction  Introduction			recent world trends in recorded alcohol production and consumption Conclusion	Estimating alcohol consumption	GLOBAL PATTERNS AND TRENDS IN ALCOHOL PRODUCTION AND CONSUMPTION				ds	Emerging structures of the clobal and	The burden of the colonial past	Alcohol in human history	DRINKING IN DEVELOPING SOCIETIES:		Natural experiments in alcohol control	Alcohol consumption and health	ses of alcohol			
75	73	67	63	53	53	53		48	44	37		36	29	28	27	23	21	21		5	18	14	13		9	0

# Alrokol in Developing Societies: A Public

265	Index
263	About the Authors
229	References
217 217 220 221 221 225 227	Chapter Nine BUILDING AN EFFECTIVE RESPONSE TO ALCOHOL PROBLEMS The current situation Responding to alcohol problems: lessons from the research literature Building an integrated societal alcohol policy The need for global leadership Conclusion
181 181 186 192 210	Chapter Eight TARGETING ENVIRONMENTAL CHANGE TO REDUCE ALCOHOL-RELATED PROBLEMS Providing and encouraging alternative activities Insulating use from harm Regulating the availability and conditions of use Working with social and religious movements and other nongovernmental groups Conclusion
165 166 172 175	NDIVIDUAL BEHAVIOUR CHANGE NLCOHOL-RELATED PROBLEMS nd persuasion nd other individualized help or control
1115 1116 1116 1118 1118 1119 1119 1119 1140 1140 1144 1152 1154	EXX  ELLATED TO DRINKING  Iconol as a cause of problems beedic problems related to drinking, in the context of developing societies Physical health problems Mental health problems Injuries to the drinker and to others Social problems for the drinker and for others Problems for the society or other collectivity Relationships of drinking cultures and patterns to the pattern of problems Conclusion: The mixture of alcohol problems in developing societies

# Contents S OF TABLES

Table 6.5

Proportion of males in three northern Indian districts reporting dependence syndrome indicators, among all males, among monthly drinkers, among high quantity monthly drinkers, and among frequent drinkers

136

516	
Tello 6 6	Alcohol in Developing So.   A Public Health Approach
	2

#### Ta. e 6.6

Proportions responding positively to specific dependence criteria, general population in 24 cities in São Paulo State, Brazil, 1999

# Table 6.7 Personal problems from drinking in the last year, in Mexican, Zambian

Table 6.8 Social problems from drinking in the last year, in Mexican, Zambian and Nigerian samples

and Nigerian samples

Table 6.9

Lifetime rates of social problems from drinking, on base of total populations, in Mexican, Colombian and Chinese population samples

152

150

138

#### **Table 6.10**

Volume of drinking: Percentage of drinkers reporting selected negative experiences related to drinking during last 12 months, by gender and volume of drinking, urban communities, Mexico 1988

Table 6.11

158

# Pattern of drinking: Percentage of drinkers reporting selected negative experiences related to drinking during last 12 months, by gender and pattern of drinking, urban communities, Mexico 1988

159

**Table 6.12** 

Percentage reporting selected negative experiences related to drinking during last 12 months, by age and by education, among males drinking 5+ drinks at least monthly, urban communities, Mexico 1988

160

### CURES

#### ು e 3.1

Adult (15+) per capita alcohol contraption of alcoholic beverages other than barley beer, spirits or grape wine, by macro-region

Figure 3.2

## 

Adult (15+) per capita alcohol consumption by macro-region

#### Figure 3.4

Adult (15+) per capita alcohol consumption in selected Asian countries

Figure 3.5

Adult (15+) per capita alcohol consumption in selected Asian countries

#### Figure 3.6

47

47

46

45

40

Adult (15+) per capita alcohol consumption in selected Latin American countries 49

Figure 3.7

# Adult (15+) per capita alcohol consumption in selected Latin American countries Figure 3.8

49

Adult (15+) per capita alcohol consumption in selected African countries 50

#### Figure 3.9

Adult (15+) per capita alcohol consumption in selected African countries 50

#### Figure 4.1

Global supply of pure beverage alcohol, 1961-1999

61

### LIST OF PLATES

### PREFACE

In 1994, under the auspices of the European office of WHO, an independent group of scholars (Edwards et al., 1994) published a volume, Alcohol Policy and the Public Good, which drew wide attention, and has by now been translated into eight languages. The volume reviewed the epidemiological evidence on alcohol's role in a variety of health and other problems, and the evidence on the effectiveness of different policy measures and prevention strategies in preventing alcohol-related problems.

The present book's inception was an initiative of the staff of the Programme on Substance Abuse (PSA) of the World Health Organization, Geneva — specifically, of Helge Kolstad, Mario Argandoña and Hans Emblad. The initiative reflected the fact that the Geneva office of WHO has responsibility for public health on a global basis, which implies a special responsibility for developing societies. The question which the WHO staff found themselves facing was, what could be said in the context of developing societies about rates, patterns and trends in drinking and in alcohol-related problems, and about evidence on the effects of different alcohol policies and prevention programs? Reflecting the available literature, the analyses and arguments in Alcohol Policy and the Public Good had been based almost entirely on material from developed societies. The original idea of this book, then, was to prepare a volume in the tradition of Alcohol Policy and the Public Good, but drawing on material from developing societies, and directed at audiences in those societies.

In 1995, Robin Room was asked to coordinate a project to produce such a volume, and in the following months each of the team of scholars agreed to join the project research group. Alan Lopez, by then the acting director of PSA, agreed that the team would function as an independent group of scholars, under the general auspices of WHO-Geneva. The first full project meeting was held in June 1996 in Edinburgh, and further project meetings were held in Mexico City in 1997, New Delhi in 1998 and Bangkok in 1999.

Over the course of intense discussions and multiple drafts, the project took on its own life and directions. It will be seen that, although the present volume shares a general public health orientation with *Alcohol Policy and the Public Good*, the combination of the particular circumstances of developing societies and the holes in the available research literature required analysis in a considerably different style and with different content. As a research group, we faced first of all the task of assembling and making sense of very diverse and scattered literatures, often not easily accessible. An early product of the project, indeed, was a bibliography with annotations of relevant studies (Ialomiteanu, 1998), which it is hoped will be useful to future scholars in the field.

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The primary audience for which this book is written is those involved the dealing with alcohol problems in developing societies. This includes not only public health workers, and those involved in work in health, social work, law enforcement and public administration, but also policymakers and concerned citizens. We had in mind also an audience of students and scholars in developing societies. Besides these primary audiences, we hope that scholars, public health workers, policymakers and others from developed societies will also find that a sustained look at alcohol issues in the context of developing societies sheds new light and opens interesting perspectives on major issues in the field.

The project generated considerable research, which is reflected not only in the current volume, but also in several other publications associated with the project. In the first phases of the project, participants from a developing country or with particular knowledge of such a country prepared case summaries concerning all aspects of alcohol for that country. These case studies of Brazil, India, Malaysia, Mexico, Nigeria, Papua New Guinea, South Africa and Zimbabwe have been published by WHO (Riley and Marshall, 1999). In reviewing the epidemiological literature on drinking patterns and problems in developing societies, it became clear that there were opportunities to fill out the literature by stimulating reanalysis of existing data-sets, often collected for other purposes but including alcohol questions. A set of these reanalyses, for Mexico, Costa Rica, Namibia, Nigeria, the Seychelles, India and China, have also been published by WHO (Demers et al., 2001). The project was also able to draw on the Global Status Report on Alcohol (WHO, 1999), for which one of the project participants, David Jernigan, was primarily responsible.

A number of journal articles related to the study have also appeared. Among them are a discussion of some perspectives arising from the project (Room et al., 2000), which appeared in a thematic issue of the *Journal of Substance Use* on "alcohol policies and developing countries", along with other contributions from several project participants (Cooper and Monteiro, 2000). Other overview discussions informed by the project (e.g., Parry, 2000) have also been published. A discussion of WHO and alcohol policy in a global perspective appeared in the *Bulletin of the WHO* (Jernigan et al., 2000).

The original plan for financing the project did not come to pass, and the project was carried out with only limited earmarked funds from WHO and other institutions. Funds for project meetings and expenses came from WHO, the Addiction Research Foundation of Ontario (now part of the Centre for Addiction and Mental Health), and the International Alcohol Policy Foundation, Stockholm. The All-India Institute of Medical Sciences and the National Institute on Psychiatry of Mexico provided substantial assistance by hosting project meetings.

The major part of the implicit financial support for the project came, of course, from the regular salary support to project team members from the institutions with which they were affiliated. In particular, work on this project was the main task for Robin Room's six months at the National Institute for Alcohol and Drug Research, Oslo. We extend our thanks for their support to all institutions employing project team members during the life of the project.

The project team also owes thanks to a number of associates who helped the project in various ways. These include Susan Bondy, Andrée Demers, Anca Ialomiteanu, Mohan Isaac, Mary Jansen, Alan Lopez, Andrea Mitchell, Heli Mustonen, Usaneya Perngparn and Jürgen Rehm. Tom Babor, Griffith Edwards,

Tom Greenfield and Isidore Obot provided helpful comments on late drafts of the book, and Kari Poikolainen facilitated the work's publication.

The work of the project team was collegial, and this book as a whole is jointly authored. The listing of authors is alphabetical, except for the first two names, reflecting their roles as project coordinator and in the final round of editing, respectively.

Any project that extends over six years witnesses a number of changes for the participants. Among the authors of this study, these have included a number of changes of institutional affiliation (and indeed of country of residence and of life circumstances). In the course of the project, as our lives ramified and the work unfolded, we have come to know each other well and to respect each other greatly.

#### Chapter One INTRODUCTION

We live in a rapidly changing world. The pace of change is perhaps most visible in parts of the world known as "developing," where societies and cultures are clashing and transforming, and processes of change which took centuries elsewhere are collapsed into decades. Alcohol has been present in many of these cultures for thousands of years. Yet both the product alcohol and its social role are being swept along in the tides of global change. This book aims to explore what this means in terms of drinking practices and problems in these societies, and what research can tell us about how to control and prevent alcohol-related problems in the current era.

Our focus on alcoholic beverages in contemporary developing societies sets for us a very broad frame — not a wholly global perspective, but one that includes the overwhelming majority of the world's population and the world's cultures. For our purposes, we have defined "developing societies" broadly. Included are all countries in the Americas south of the United States, all countries in Asia except Japan and the Russian Federation, all countries in Africa, and all the island states of Oceania except for New Zealand. We have also included within our frame what has sometimes been called the "fourth world": the partially autonomous societies of indigenous peoples that are located within developed countries.

There is enormous diversity in these societies, not least in terms of economic development and position. Included, for instance, are the countries of the Arabian Gulf that, because of mineral resources, have considerable wealth on a per capita basis. Also included are all of the societies that are at the very bottom internationally in terms of societal wealth. Some societies constitute unitary nation-states; other nations are federal; many are multicultural; and for a few societies there is no functioning national state.

In most of these societies, there is a tradition of alcoholic beverage production and consumption that extends back in time before the modern era. In many places, as we shall discuss, there is still some production by traditional methods, but industrial production has long provided most of the supply; elsewhere, it is gradually replacing production by traditional methods. This process of displacement was initiated in most places during the European colonial era, and usually involved the introduction of new kinds of alcoholic beverages. In many places, the process continues today, driven by mass marketing and other promotions, particularly for European-style lager beer. Alcoholic beverages, as one more consumer

<sup>1</sup> Note that our usage of "fourth world" here differs from the somewhat broader meaning used by Castells (1998).

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15

commodity, have become part of the process of globalization of production and promotion. The images with which they are promoted reflect this, often appealing to the cosmopolitan aspirations of the drinker. However, a brand may be positioned and promoted with the opposite orientation where this offers more leverage, by identifying it with local or national symbols in distinction from the foreign.

There is considerable variation among developing societies in whether and how much the level of consumption of alcoholic beverages is increasing. There are substantial variations also between societies in patterns and contexts of drinking. Accordingly, there are variations, too, in the levels of different types of alcohol-related problems. In this book, we shall discuss the available evidence on all of these levels and patterns. Our aim is to set out what is known about the epidemiology of alcohol-related problems in developing societies, in the context of knowledge about the alcohol market and drinking patterns and levels in such societies. We then consider the various strategies available to governments for limiting and reducing the harm from drinking, and the evidence on the effectiveness of

these strategies in a developing-society context. So far as is possible, the material in this book is drawn from developing societies. To the extent they are available, we have drawn on available epidemiological and policy-impact studies concerning alcohol carried out in these societies. In conjunction with these, we have also used case studies and descriptions of developing-society experience. And, when necessary, we have also drawn on experience from developed societies, considering its relevance and potential value in a developing-society context.

## The diverse uses of alcohol

Alcoholic beverages have a number of use-values, reflecting both their physical properties and their cultural definitions. Ethanol's properties, apart from its functions as a solvent and as a fuel, suit its use for human consumption as a food, as a thirst quencher, as a medicine, as a mood-changer, or as an intoxicant (Mäkelä, 1983). At the level of cultural definition, many other use-values are added to this list. Alcoholic beverages are a medium of sociability (Partanen, 1991), and often of celebration. Access to use may be a marker of social standing. Particular alcoholic beverages or brands may become identified with a particular cultural or national identity. In many religions, notably including Christianity, an alcoholic beverage has a sacramental function. In other religions, notably including Islam, the believer is forbidden to use alcohol, and abstaining from drinking becomes a marker of religious identity.

Different use-values for alcohol usually coexist in the same culture. While Indian warriors consumed *sura* (a fermented beverage made from rice and sugarcane) to enhance valour and courage, alcohol was also an ingredient in many medicinal preparations in the traditional Ayurvedic medical system of that country. The use-values may indeed coexist even in the same drinking occasion. In Nigeria, palm wine has been used for generations as a vehicle for social exchange, as ambrosia for the gods, and as a commemorative drink for various rites of passage; these functions may all be served by the same drinking occasion.

## Alcohol consumption and health

Along with the pleasures and benefits many drinkers derive from it, drinking brings many problems. The diversity in the forms of alcohol and the reasons for their use has also meant widely differing patterns of drinking, and widely ranging consequences. While much of the traditional drinking in developing societies was sporadic and communal, as we shall see, drinking today in these countries cannot be understood simply in terms of these traditional patterns. Grafted onto these patterns, or replacing them, are new forms of drinking resulting from changing social circumstances and from diverse colonial and international influences.

Drinking may never have been problem-free for traditional societies, but in the modern world problems from drinking have taken on new dimensions. Incorporation in the global economy has brought new risks from motor vehicles and machinery and new demands for sober attention. Often societal responses to these new risks have lagged behind. The result can be an escalation of alcohol-related physical and social problems.

Alcohol problems may occur in many realms of human life. Practically no organ in the body is immune from alcohol-related harm (Bower, 1992). Drinking can bring in its wake emotional and mental disorders. Alcohol is causally implicated in many casualties, both to the drinker and to others. Social as well as health problems are often due to drinking: a pattern of drinking can adversely affect family life, work functioning, and performance of other social roles.

## Alcohol and the Global Burden of Disease

Recently efforts have been made to estimate on a global basis the adverse effects of alcohol on the health of the drinker. These estimates of course do not include adverse effects of drinking on the health or interests of others, nor do they cover social problems from drinking. However, they provide global insight into alcohol's negative impact on the lives of its users, and they represent an important and ongoing exercise in situating alcohol problems in the larger landscape of international health.

The first such estimates were made as part of the effort to calculate the Global Burden of Disease for the year 1990 (Murray and Lopez, 1996). These estimates focus on a broad-reaching indicator of impaired health, the Disability-Adjusted Life-Year (DALY). Included in the DALY calculation are not only the years of life lost from a full lifespan by early mortality, but also years spent with some level of disability, with the proportion of disablement assigned according to the particular disability.

The calculation of alcohol's contribution to the burden of death and disability in the Global Burden of Disease estimates for 1990 rests on a series of meta-analyses of the epidemiological literature estimating the proportion attributable to alcohol (the attributable fraction) for specific diseases and disorders (English et al., 1995). In order to make their task more practical, Murray and Lopez used only the categories of illness or injury that brought the greatest number of deaths, either through sheer mortality impact or through high alcohol attributable fractions

While the methodology used by English et al. to estimate alcohol's causal role has been generally well-regarded in the scientific literature, it is limited by the reach of the available literature, and, within that literature, by the exclusion of all non-English publications and of all studies based on populations of non-European

Introduction

new set of estimates with he published in the World Health Report for 2002.

17

origin. The proportion of a chronic disease condition attributed by alcohol may well vary from one society to another. Such variation is even well likely for alcohol's role in casualties, given the very different social and environmental conditions in which casualties occur in different societies. To adjust for these limitations, Murray and Lopez applied correction factors to the attributable fractions. In the case of injuries, the factors were derived from estimates of per capita consumption in each world region in ratio to consumption in the developed countries. In the case of diseases, the factors were based as well on a combination of the nonhepatitis-B cirrhosis rate and the number of deaths coded to alcohol dependence; these were taken as a proxy for drinking patterns entailing the kind of long-term heavy consumption required for onset of most alcohol-related disease.

To adjust for alcohol's protective role, Murray and Lopez took as a credit against alcohol's burden a percentage of deaths from ischaemic heart disease, scaling from an assumption that drinking in the developed countries prevented 18 percent of male and 14 percent of female ischaemic disease mortality. This is generally regarded as a generous assumption. Adjusting for the unreliability and paucity of data is more difficult. Lopez and Murray based their per capita consumption estimates largely on 1980 data (Smart, 1991; Adrian, 1984), even though they were estimating mortality for 1990. A preliminary re-assessment of their per capita consumption estimates using more recent data (Productschap voor Gestilleerde Dranken, 1997; FAO, 1998) suggests that these may also have been too generous for regions outside the developed world, with the exception of the nations of the former Soviet Union, for which the estimates may have been too low. It is possible that the two sets of generous assumptions, one on the plus and one on the minus side, cancel each other out.

With these caveats in mind, the results of this first exercise in estimation of alcohol's global burden were as follows: in 1990 alcohol was responsible for 3.5% of the total disability-adjusted life years lost, more than the tobacco's share (2.6%) and far more than the share for illegal drugs (0.6%; Murray & Lopez, 1996). In general, alcohol's share in the burden in terms of life-years lost was greater than its share in terms of lives lost, reflecting that drinking-related deaths tend to occur at relatively younger ages. Alcohol's share in the burden in terms of years of life disabled was even greater than its share in the years lost because of death.

Table 1.1 shows the Global Burden of Disease study's estimates for different world-regions, as defined by the World Bank. It will be seen that the highest estimated burden for a developing region is for Latin America, with alcohol estimated to account for almost 10% of the burden of disability and death. This figure is similar to the 9% calculated for Mexico, using the same methodology, by Frenk et al. (1994). The estimated burden is relatively low for the Middle East and for India, reflecting the small proportions of populations that drink at all in these areas. The estimated burdens for other regions fall in between.

This first Global Burden of Disease study was a pathbreaking effort to estimate the proportions of premature death and disability attributable to different conditions and risk factors. Its findings underline that, however the calculation may be done, alcohol has a substantial negative effect on world health. But its estimates must be regarded as a first approximation that will be refined in future studies. Replications of the Global Burden of Disease methodology in developed (Cipriani et al., 1998) and developing country contexts are now under way, and a

Table 1.1 Global burden of disease from alcohol, 1990

(Source: Murray and Lopez, 1996)

						1		1	
World	MEC Middle East crescent	LAC Latin America and the Caribbean	SSA Sub- Saharan Africa	OAI Other Asia and Islands	CHN China	IND India	FSE Former Socialist Economies	EME Established Market Economies	Region (World Bank)
773.6	5.6	136.1	170.7	97.4	114.1	112.9	53.0	83.8	Deaths (1000)
1.5	0.1	4.5	2.1	1.8	1.3	1.2	1.4	1.2	As % of total deaths
19 287	229	3 319	4 435	1 862	2 118	2 723	2 063	2 537	% of Years of As % otal life lost total aths (YLLs) YLI (1000s)
2.1	0.2	5.9	2.0	1.6	1.8	1.4	5.7	5.1	As % of Ye total d YLLs
28 400	437	6 201	3 169	3 191	2 737	1 974	3 130	7 667	As % of Years of As % of Years of life As % of Disability As % of total disabled total disabled total disabled (YLLs) (1000s) (1000s) (1000s) (1000s) (1000s)
6.0	1.0	14.7	4.6	5.1	3.0	2.3	11.9	15.6	As % of total YLDs
47 687	666	9 520	7 603	5 053	4 856	4 697	5 193	10 204	Disability -adjusted life years (DALYs) (1000s)
3.5	0.4	9.7	2.6	2.8	2.3	1.6	8.3	10.3	As % of total DALYs

Key:

EME: includes Europe from Finland, Germany, Austria and Italy westward, Greece, Canada, United States, Australia, New Zealand, Japan.

FSE: includes other countries of Europe and Russia

DAI: includes Asian countries other than China, India, Russia, and countries in MEC; includes Mongolia, Bangladesh, Sri Lanka, the two Koreas, Myanmar, Thailand and countries of Indochina and the Malaysian and Indonesian archipelagos, Philippines, Papua New Guinea, and Pacific island countries

SSA: includes all of Africa south of the Sahara, and Madagascar and island states near Africa.

LAC: includes all countries of the Americas except Canada and the United States MEC: includes all countries on southern shore of the Mediterranean, and all countries from Turkey east to Pakistan and from Kazakhstan south to Yemen.

# Natural experiments in alcohol control

There is nothing immutable about alcohol's influence on health and social well-being. Many societies, both ancient and modern, have attempted to limit or eliminate these adverse effects, using a variety of strategies. Among these have been punishing the individual excessive drinker, restricting and controlling alcohol availability, and prohibiting the use of alcohol altogether.

The potential impact of changes in alcohol availability on rates of problems is demonstrated by the natural experiments that occur in a society or locality when the supply of alcohol changes substantially. For instance:

- In Greenland, assault cases fell by 17% and attempted and completed homicides by 18% during the period 1979-1981, when alcohol rationing reduced alcohol consumption levels by 23%. Assaults and homicides rose to higher than the pre-rationing level in the year after rationing was repealed (recalculated from Schechter, 1986).
- In September 1989 the islands of Yap and Palau (in Micronesia) became unintentionally "dry" for more than one week after supply ships were delayed and existing supplies of beer, the predominant form of alcohol consumed, were exhausted. During this time the incidence of injuries and accidents in Palau declined to the point that the hospital wards were nearly empty (Nero, 1990).
- exhausted. During this time the incidence of injuries and accidents in Palau declined to the point that the hospital wards were nearly empty (Nero, 1990).

   Until 1972, Aborigines in Western Australia were banned from purchasing alcohol, which substantially limited their drinking. In the 15 years before then, non-infant deaths from accidents and violence had been steady in the range of 4-7% of male deaths and 2-5% of female deaths. After drinking by Aborigines was legalized, the proportions attributable to accidents and violence rose to 23% of male and 15% of female deaths in the period between 1982 and 1986 (Hunter, 1993:83).
- In April 1985, a far-reaching campaign to reduce levels of alcohol consump-36% for males, by 24% for females), cirrhosis and other alcohol-related disduring the period of the alcohol campaign included accidents and violence (by years for women (Leon et al., 1997). Specific causes of death which declined and 1987 life expectancy for males increased by 3.2 years for men and 1.3 cy had been slowly declining in Russia in the preceding years, between 1984 ing the campaign (Shkolnikov and Nemtsov, 1997:243). While life expectanwas a net drop in per-capita alcohol consumption in Russia of about 25% durtion in the former Soviet Union began. The campaign had slackened by 1988. post-Soviet period, the gains in mortality were more than reversed. Alcoholic and circulatory diseases (9% for males, 6% for females) (see Table 1.2). In the females), infectious and parasitic diseases (25% for males, 23% for females), eases (56% for males, 52% for females), pneumonia (40% for males, 32% for Despite a sharp increase in illicit alcohol supplies, it is estimated that there factors are also probably involved in the "mortality crisis" of this period. beverages became freely available and sales considerably increased, but other

It should be noted that our emphasis in giving these examples is not on the particular means by which alcohol consumption became restricted. The prohibition on drinking specifically for Australian Aborigines undoubtedly reflected the racism of another time, and the Soviet anti-alcohol campaign, imposed from above, became very unpopular. Our emphasis instead is on what happened to rates of

# Age-standardized mercality rates per million for Russia by gender, comparing 1987 to 1984 and 1994 to 1987 (standardized to European population)

(Source: recalculated from Leon et al., 1997)

1987/1984 rates     1994/1       male     female     male       0.88     0.93     1.37       0.64     0.76     2.26       0.44     0.48     4.29       0.6     0.68     2.29       0.8     0.78     1.16	
1994/1987 rates           male         femal           1.37         1.2           2.26         1.91           4.29         3.9           2.29         1.26           1.16         0.94           1.29         1.15           1.29         1.17	1.5

health problems when there was a sudden change in the level of alcohol consumption in the population. And, in all these cases, the effect was quite dramatic — not only in terms of the effects on the drinker him- or herself, but also in terms of the injuries and other effects on others.

In the light of the evidence of alcohol's importance as a source of health and social problems in developing societies, and of the demonstrated potential for reducing alcohol-related problems, this book aims to set out what is known about the epidemiology of alcohol-related problems in developing societies, and to consider the strategies governments can adopt to reduce alcohol-related harm, along with the evidence on their effectiveness. We begin in Chapter Two by setting drinking in its context, considering historical as well as economic, social and cultural factors shaping drinking in developing societies. Through a review of the available data on alcohol consumption in both developed and developing countries, Chapter Three establishes that drinking and drinking levels are indeed changing, in ways that may not bode well for the health and safety of populations in the developing world. In Chapter Four, we review the changes occurring in alcohol itself, from communal product to industrial product to global commodity articulated with a global economy and global trade agreements.

Chapter Five then moves to a deeper examination of the wide range of patterns of drinking in developing societies that underlie aggregate figures on per capita consumption. The close relationship between drinking patterns and drinking problems leads us to Chapter Six, which documents the extent and levels of alcohol problems in developing country contexts.

demonstrated. There is a rich history and growing literature of experiences in ture on their effectiveness. Evidence of effectiveness is more promising for the preventing and controlling alcohol problems in these societies. Chapter Seven ments surrounding and conditioning drinkers' behaviour. strategies described in Chapter Eight, which seek to intervene in the environdescribes interventions that target individual behaviour and considers the litera-That alcohol problems are by no means intractable or unpreventable has been

texts, patterns and problems, we seek as researchers to suggest and inform meanregional, national and international governmental levels, and of drinking conquestion of action. Taking into account a complex array of cultures, of local, changing world. ingful actions to prevent and control the harmful effects of alcohol in a rapidly The final chapter summarizes what we have found, and then addresses the

### DRINKING IN DEVELOPING SOCIETIES: THE ECONOMIC, SOCIAL AND CULTURAL CONTEXT Chapter Two

countries, and the uses of alcohol, its motivations, the consequences of drinking and the means to deal with them differ accordingly. In this chapter we shall present cultural context differs in many ways from the context in the industrialized ing world, and in particular their relationship to drinking practices. global order, the consequences of these for the lives of peoples in the developproblems. The chapter concludes by considering the emerging structures of the ticular effects of the colonial past of the developing world on alcohol availability and a broad overview of alcohol in human history and then describe some of the par-In developing societies, the historical and contemporary economic, social, and

## Alcohol in human history

thousand years, at least to the early days of agricultural settlement in the Middle and used before contact with the European imperial expansion of the last 500 years. The exceptions to this were Australia, Oceania, and North America roughly East and in China. In most parts of the world, alcoholic beverages were known north of present-day Mexico; and even in these areas alcoholic beverages may not have been completely unknown (Marshall, 1976; Brady, 1991). The drinking of alcoholic beverages extends back in human history several

communal festivals and within local circles of exchange, to celebrate the completion the household, given away as a sign of generosity and hospitality, or shared at most part, the beverages were not sold on the market. They were consumed within limited. So what was produced was usually consumed soon and locally. For the Beers, ciders and meads did not keep for very long, and means of transport were particular regions, some of which were regarded as an important part of nutrition. They included wine, beer, cider, mead, and a variety of other beverages brewed in were nearly always fermented, and contained at most a few percent of ethanol generation. These beverages, produced from grain, fruit or other organic materials, local raw materials and methods that have been handed down from generation to been produced mainly locally at the level of household or small community, using tence of an agricultural surplus above the minimum necessary for survival of harvest or a joint work project. The production of alcohol presupposes the exis-For most of their history of several thousand years, alcoholic beverages have

ceremonies (Mandelbaum, 1979). Often they were traded as items of luxury. often restricted to particular population groups, to specific occasions, or to religious were in many societies regarded as special commodities. Their consumption was For this reason, as well as because of their intoxicating power, alcoholic beverages

ily stored and transported without spoiling. vided a means to transform part of the harvest into a commodity that could be easerages potentially available year-round, whatever the climate. Distillation profortified with distilled spirits — keep indefinitely, and thus make alcoholic bevning in the 16th century, the advent of distillation on a commercial scale transto Europe through Arabia by about 1100. For several centuries distilled beverages increase the ethanol content of the liquid, was invented in China, and had diffused tent of ethanol (pure alcohol) of about 13%. Distillation, as a process to refine and formed the availability of alcoholic beverages. Distilled beverages - and wine were regarded in Europe primarily as a medicine (Wasson, 1984). However, begin-Except in special circumstances, fermented beverages have a maximum con-

tive for wines. In most places in the present-day world, distilled as well as fermented beverages are among the various different alcoholic beverages in reguday life, both as beverages in their own right and as a "fortifier" and preservation and imperial expansion, distilled beverages became a banalized part of every-African and Asian colonies. Thus in the early stages of European industrializaindustrial alcohol, so-called "trade spirits", were exported from Europe to its flowed from the Caribbean area to North America, and cheaper varieties of Distilled beverages became a major item in colonial trade (Pan, 1975). Rum

to him, and whenever he gets an opportunity, this very wine acts as a poison." And a 2,000-year-old Indian treatise on medicine, Charak Samhita (Anonymous, insides rot, a drinker won't quit drinking" (Liu and Lo, 1975:470; see Lee, 1986). century of the Common Era (Underwood and Chu, 1929:7); in the 1600s, a poem city when I am drunk I disturb the peace of the streets", wrote Tu Fu in the 8th 1949), includes a warning that "a person who drinks whatever kind comes in hand by Ch'ien Ch'ien-Ti notes that "Love of wine makes people wild/... Even when his Classic Chinese poets were also well aware of adverse effects of drinking: "In the ery, anxiety and remorse (Proverbs 23:29-33; see O'Brien and Seller, 1982). a variety of negative outcomes, including incest (Genesis 19:31-34), seizures (I Samuel 25:36-38), addiction (Isaiah 28:7), hallucinations, blackouts, injury, mis-(Herodotus, 2000; see O'Brien, 1980). The Jewish Bible associates alcohol use with madness of Cambyses, the tyrant son of Cyrus, to his drinking too much wine Writing in 440 B.C.E., Herodotus recorded that the Persians attributed the cruel beginning drinking alcoholic beverages also brought strife, tragedy and sorrow In addition to the variety of use-values described in Chapter One, from the

particular social statuses. Formal rules regulating those selling alcohol can be beverages has often been limited to particular festivals or occasions, and/or to have also been common. In tribal and village societies, access to drinking alcoholic (Deuteronomy 21:18-22). But measures to restrict and control availability of alcohol whose parents denounced him as a disobedient glutton and drunkard drinking. Ancient Jewish law, for instance, prescribed stoning to death for a son tried to limit or eliminate the harm. Often there were edicts punishing excessive erages, their "prized and dangerous effects" (Steele & Josephs, 1990), and have Historically, most societies have recognized the double quality of alcoholic bev-

ound in the earliest surviving legal documents. Thus the Code of Hammurabi,

Druking in Developing Societies: The Economic, Social and Cultural Context

keepers and in taverns (Hammurabi, 2000: §§108-110) from about 1780 B.C.E., included three articles governing the behaviour of tavern-

elders of a group in Papua New Guinea experiencing its first extended contacts discouraged - e.g., by Brahmins in the Hindu religion, by adherents of some as well as in many land reservations for indigenous groups, e.g., in North America twelve Nigerian states, in many U.S. counties, and in the state of Gujarat in India, Government prohibition of alcohol exists today in a number of Islamic countries, in shorter period in the United States, Canada, Iceland, Norway, Finland and Russia tact with alcohol for the group's members (Poole, 1982; see box in Chapter 5) with Australian patrol officers and the market economy strictly forbade all con-Commissioner in Kansas in 1832 (Unrau, 1996:24). As recently as the 1970s, the to us by our white friends", a Kickapoo tribal spokesman told a United States that sales to their people be prohibited: "we are afraid of the wicked water brought time of first European contact, leaders of a number of indigenous peoples asked Protestant denominations in Christianity, and by all faithful Moslems. At the have included elements or segments in which drinking was forbidden or altogether, or forbidden its use on the society's territory. All the major world religions in the course of the 20th century, alcohol was prohibited altogether for a longer or periods when there has been a prohibition on sales of alcoholic beverages. Thus, Within societies with predominantly European populations, also, there have been Some societies and cultures have forbidden the use of alcoholic beverages

## The burden of the colonial past

supplies and trade goods carried aboard the Chinese fleets were beer and wine. widespread maritime exploration and trade by China throughout Mainland and cesses of diffusion and contact, however, it is important to be aware of earlier world to another, and these included the spread of alcoholic beverages and pat-20th century. The Age of Discovery, with subsequent exploration and colonization, with serious decolonization only a recent phenomenon, in the second half of the late 15th century. This chapter of human history continued for close to 500 years, must be given to the larger historical context created by the expansion of the east coast of Africa in the 15th century (Levathes, 1994). Among the numerous Island Southeast Asia, to coastal South Asia and the Middle East, and as far as terns of their consumption. Lest too Eurocentric a cast be placed on these progreatly accelerated the sharing of products, habits and ideas from one part of the European and other colonial powers into the rest of the world, beginning in the In looking at alcohol in developing societies in particular, special attention

cachaça began, and remains important in Brazil to the present. The Indian peooutposts such as Goa and Macao. The indigenous peoples of Brazil, to which the cially in Mexico, Central America and South America, but their influence was also mant. In the 16th century they established large empires in the New World, espeindeed, soon after the conquest production of a local distilled beverage called prominent in parts of Africa, in the Philippines and Malacca, and in other Asian ples who inhabited what is now Mexico also made fermented beverages, such as Portuguese introduced both wine and distilled beverages (Carlini-Cotrim, 1999); Portuguese first came in 1500, had various fermented alcoholic beverages, but the In the earliest years of the European expansion Spain and Portugal were dom-

pulque, although their consumption was quite strictly regulated (Medina-Mora, 1999). The Spaniards imported wine and distilled beverages like brandy in the early 1500s following the conquest (Taylor, 1979); as in Brazil, locally-produced distilled beverages have remained a significant part of Mexican life.

By the 17th and 18th centuries the Dutch, English and French joined the European colonial expansion, and they began to compete (and fight) with the Spanish and the Portuguese for territory, trade and influence. Dutch holdings were particularly important in Island Southeast Asia, Africa and parts of the Caribbean, while the English established colonies in North America, Africa, South Asia, Australia, New Zealand, and the Caribbean. The French presence was pronounced in parts of Africa and North America, and in the Caribbean. As with the Portuguese and Spanish before them, these colonial powers introduced new alcoholic beverages both to places that already had a drinking tradition (e.g., Africa), and to others (e.g., North America and Australia) that lacked such a tradition.

In the 19th century Germany, Russia and the United States joined the colonial powers, and late in the colonial period Australia and New Zealand took control over some former British colonies in the Pacific Islands. Germany's influence was mainly in Africa and Oceania, while Russia expanded across northern Asia to Alaska and what is now the West Coast of the United States as far south as Fort Ross, California. The United States was a relative latecomer to colonialism, over-throwing the Hawaiian monarchy in 1893, and grabbing former Spanish territories in the Caribbean and the Pacific during the Spanish-American War at the end of the 19th century.

colonies' primary interest in alcohol lay in commercializing and taxing the local drew strength from the temperance movement in the metropolitan countries, but impulse, particularly from Britain, the United States and northern Europe, was to metropolitan country or elsewhere in the empire. A substantial trade grew in entertain and control indigenous labourers (Van Onselen, 1982; Crush & Ambler, Alcoholic beverages were also commonly used as a colonizing force to attract, pay, production both of the traditional local beverages and of new distilled beverages or itinerant foreigners. consumption of some or all alcoholic beverages to the colonizers and other resident insurrection (Room, 1990). Colonial prohibition laws often sought to limit the also reflected imperial worries about drinking's associations with idleness or limiting the alcohol trade in Africa (Bruun et al., 1975; see plate 2). This impulse the international level in a series of agreements between the colonial powers on restrict or cut off the availability of alcohol to indigenous peoples, culminating at spirits and fortified wines, which could be shipped long distances. The second was an effort to turn colonies into markets for alcoholic beverages produced in the 1992). Two other impulses towards alcohol were evident by the 19th century. One In the early period of imperial expansion and colonization, the European

This colonial expansion by European and European-derived powers encountered a variety of different drinking cultures in Africa, Asia, and Latin America. In a few localities — specifically in most of North America and in Oceania and Australia — there were no indigenous alcoholic beverages, and so the drinks were introduced to populations with little or no previous experience of alcohol (e.g., Marshall, 1999). Present-day drinking patterns and beverage preferences throughout the developing world derive historically from a combination of the beverage preferences and drinking practices of the particular colonial power



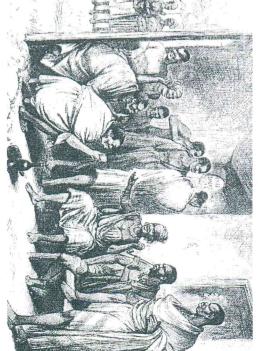


Plate 1

Alcohol and the colonial era: building and supplying demand

Top: A Carlsberg beer poster from about 1910 notes with pride (on the scroll): "Biggest export from Nordic countries to overseas places". Bottom: A liquor canteen in the Eastern Cape district of South Africa in the 19th century. "Cape smoke", the label on the barrel at the top centre of the picture, was a raw brandy produced for the local market (Mills, 1985; La Hausse, 1988).

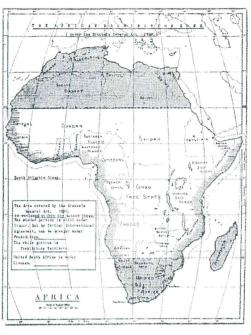




Plate 2 Alcohol and the colonial era: anti-alcohol campaigns

Left: The British and American temperance movements initially had high hopes from the Brussels General Act of 1890, effective in 1901, an agreement between the colonial powers which provided for prohibition of distilled spirits for the "native population", or otherwise a minimum tariff. The map of the "African Prohibition Zone" is from a temperance study (Hayler, 1913:202). Right: "Mahatma Gandhi driving liquor from India", poster, c. 1921. Gandhi's "Non-cooperation movement" for national independence "placed the demand for the prohibition of liquor at the cornerstone of his political structure" (Sinha, 1922:200-201).

> involved, mixed with whatever pre-colonial beverages and drinking practices may Drinking in Developing Societies: The Economic, Social and Cultural Context

27

climates. It was thus in the 19th century that breweries for European-style beer techniques were developed One exception to this is that it was not until well into the 19th century that for making a palatable European-style beer in hot

indigenized, but also of persisting regulatory structures for alcohol production matter of the alcoholic beverages which were introduced and often became the developing world today, as well as in the "fourth world". This is not only a breweries (or bought out old ones) across the globe (Jernigan, 1997). popular worldwide, and large transnational corporations have established new in 1949 in Nigeria (Gureje, 1999), and in 1952 in Papua New Guinea (Marshall more recent phenomenon; in the 1930s in Malaysia (Jernigan and Indran, 1999), and in China in 1900 (Xu and Bao, 2000). Elsewhere, the first breweries are a in Brazil in 1853 (Carlini-Cotrim, 1999), in Zimbabwe in 1898 (Jernigan, 1999), supplies from the colonizing country. For example, the first breweries were set up were first established in many colonies, using equipment, techniques and often emancipation and autonomy (laHausse, 1988). In many places, these symbolic cachet of elite status, while taking on a symbolism also of personal and collective population, in the immediate post-colonial era drinking often carried over its and sale, and legal provisions to deter or reduce problems from drinking Particularly where there was prohibition of some or all alcohol to the indigenous 1999). In the latter half of the 20th century, European-style beer became more The colonial past leaves strong marks on the alcohol situation in many parts of

# Emerging structures of the global order

values still influence behaviour today

characterized by recurring economic and political crises in various parts of the and uniquely fast economic growth, accompanied by wide-reaching processes of quarter of the 20th century appears as a sort of Golden Age, a time of unexpected humankind gained its livelihood from agriculture. Seen in retrospect, the third brought to a close the long era during which the overwhelming majority of twenty-five or thirty years following the Second World War "probably changed consideration of modern world history, Eric Hobsbawm (1995:6) states that the system, a world of increasingly integrated production systems based on a new world and the poorest countries. growing, both within societies and in terms of the contrast between the developed all boats gave way to a recognition that the gap between rich and poor was often actually lost ground economically. Easy assumptions that a rising tide would float world, serious environmental problems, and widespread insecurity about the social and cultural change. In contrast, the last quarter of the 20th century was the perspective of world history, this period can be seen as a watershed that human society more profoundly than any other period of comparable brevity" In this same period, the outlines of a new global economic and political Presently our world is experiencing a rapid historical transformation. In In this period, parts of the developing world — notably much of Africa —

with the global economy and world politics, into a world-encompassing system emergence of the Internet, which within a generation has grown, in interaction global division of labour, have begun to emerge (Dicken, 1998). The simultaneous

Drinking in Developing Societies: The Economic, Social and Cultural Context

further underscores the division of world into two. Providing instant communication for financial transactions and other kinds of information, the Internet integrates global capitalism, bridging differences in time and place. On the one hand, the constant flow of decisions that are made and transmitted through the Internet essentially governs the world economy and politics and deeply affects the lives of the people within their ambit. On the other hand, there are the people, in the developing as well as the developed world, who have become irrelevant from the viewpoint of the dominant economic interests of our time. These people are, in Castells' words, "bypassed by flows of wealth and information, and ultimately deprived of their basic technological infrastructure that allows us to communicate, innovate, produce, and even live, in today's world" (Castells, 1996:74). They have no escape from their condition as long as the rules of the system remain unchanged.

At the same time, economic and political developments have modified the relationships between various regions and financial centres and blurred older oppositions between centre and periphery or "North" and "South". The notion of the Third World, in particular, has lost its analytical value. This is true, firstly, in the sense that the collapse of the Soviet Union brought down the global frontier line between capitalism and socialism, which formed the main axis of politics in the post-World War II era. This is also true because of the highly divergent economic development in the countries that were considered as part of the Third World a generation ago. Singapore's GNP per capita is one of the highest in the world, South Korea is now a member of the OECD group of wealthy nations, and all the larger South American countries belong to the upper middle income group of the World Bank classification.

### **Economic trends**

In the present context, however, we take a wide view of developing societies, irrespective of their economic progress or their position in this global division of labour and information flow. It turns out to be quite important to consider what happens to alcohol and drinking during the rapid industrialization, as in the case of the "Asian tigers" and other newly industrialized countries. This means that one has to deal with a highly heterogeneous assemblage of societies, geographically as well as economically and culturally. For an overview, in order to gain some understanding of this geographical and economic diversity, it seems advisable to look at three regions – Asia (excluding Japan), Central and South America, and Sub-Saharan Africa – separately, without forgetting their inter-country and intra-country differences.

Much of Southeast Asia has been characterized since the 1960s by consistently high rates of economic growth and rapid social transformations. Financial crises in the late 1990s somewhat blurred the picture, raising doubts about whether the "Asian miracle" can be sustained. Most experts seem to think, though, that these difficulties are temporary and that Southeast Asia, together with China, is on its way to becoming a major powerhouse in the global economy.

Several South American countries have tried to match the Asian success story, but the record is mixed. After rapid economic growth until the middle 1970s, based at first on exports of primary commodities and then on import-substitution industrialization, came the "lost decade" of the 1980s, with debt crises that forced

the countries to adopt austere economic policies imposed by international financial have added to the uncertainty concerning future prospects in Latin America. source of income, derived from developed societies. Recent financial problems of Latin America, as in parts of Asia, the illicit drug trade provides a significant cutting costs on labour, social welfare, and environmental protection. In parts Venezuela can rely on its oil, but on the whole widespread poverty shrinks potenadded manufactured goods. Brazil and Mexico, with their natural resources and American countries to compete successfully on the world market of high valuestate of their technology and infrastructure does not usually allow South 1989; 19% lived in extreme poverty (Comisión Económica, 2000:40, 42). So far the Mexican population lived below the poverty line, little changed from the figure in increased since then (Boltvinik and Hernández Laos, 1999). In 1998, 48% of the between the poor and the rich in Mexico, which had been falling before 1982, has 1990; the ratio was still roughly the same at the end of the 1990s. Inequality itant had been 32% of that of the United States in 1980, but had fallen to 14% by institutions. In Mexico, for instance, the Gross National Product (GNP) per inhabtial domestic markets, and economic survival in the global competition requires large domestic markets, have made substantial progress in manufacturing, and

growth in the 1960s and a moderate increase in the 1970s, industry collapsed in capita income will fall by 8-10% in the next 10 years because of HIV/AIDS, and adverse economic effect in the coming decade. In Botswana, for example, perhard hit by the AIDS epidemic. According to UNAIDS (2001), 70% of those living valuable resources, but the use of earnings has served neither the well being of various evaluations. Some countries, especially Nigeria and Zaire/Congo, possess international aid and foreign borrowing. The structural adjustment policies ulation growth rate, leaving survival in most African countries dependent on the 1980s, and even agricultural production has lagged behind the 3% annual popand social and political chaos were the visible signs of Africa's plight at the close (Greener, 2000). Famines, epidemics, violence, civil wars, massacres, mass exodus the people nor the development of the country. Africa has also been especially of the 20th century. the income of the poorest households by 13%, according to recent projections with HIV/AIDS reside in Sub-Saharan Africa. This is expected to have a dramatic imposed by international financial organizations have mostly failed, according to Sub-Saharan Africa presents the saddest stories of development. After a rapid

#### Social trends

Economic globalization has brought about dramatic and widespread social transformations, especially in the developing world. It is always difficult to find out what is happening in society, whether at its grassroots or in its corridors of power, even in the best-documented societies. In developing societies these difficulties are compounded by a lack of adequate statistical services and of academic as well as market and public opinion research. The ethnographic record on the contemporary reality of the developing world also remains spotty. However, we single out here what seem to be some of its most salient structural aspects, and consider how they may relate to the arena of drinking and alcohol problems.

Increasing inequalities

parts of the world.

improved. Development indicators show that, on average, and despite the pres-

For many people in developing societies, undoubtedly, the conditions of life have

31

alcohol consumption

Urbanization

sures created by rapid population growth, infant mortality has diminished and of the coin has been rapid urbanization, which has created megacities and urban cultural productivity, which created a push away from rural areas. The other side the shrinkage of peasantry and rural labour. This resulted from increasing agri-One of the truly dramatic changes in the latter part of the 20th century was

sprawl, congestion and pollution.

obligation and custom come under heavy strain. Unemployment is endemic, especially in the poorest countries, and migrants are forced to live by their wits, trying to earn a livelihood as petty traders or to find some other means to fit into the networks of the informal economy. For migrants this is a new world, where traditional networks of mutual

The effects of migration to the city on drinking patterns and problems depend

sumption (Caetano and Medina Mora, 1988; see also Vega et al., 1999). of the move (Sulkunen, 1989; Room, 1982). More commonly, however, poverty, southern Europe, the drinking at least of adult men may be reduced in the wake developed societies suggest that where there has been an established pattern of Mexican male immigrants to the U.S. had greatly increased their alcohol conincrease in heavy drinking occasions. For instance, within five years of the move, greater anonymity and autonomy of urban life often is accompanied by a rapid weak distribution networks or cultural proscriptions have held down drinking in heavy drinking in association with agricultural labour, as in the wine cultures of considerably on the traditional culture of drinking in the countryside. Studies of the countryside, so that movement into the urban cash economy and into the

world are still predominantly rural. In China the proportion of the population world should not, however, make one forget that large parts of the developing side, which becomes dependent on the city and its industries, and on the earnings which is rural is 70%, in India 73%, and in Sub-Saharan Africa 69%, whereas of the migrants. When the migrants return for a visit or for longer, they bring their urban ways with them Yet urbanization continues relentlessly, and also brings changes in the country-Latin America with its 26% is far more urbanized (World Bank, 1997:114-116). The spreading of slums and shantytowns around the cities of the developing

suggest there is decreasing economic inequality in countries like India, Malaysia, accentuated. As regards inequality within countries, the picture is less clear-cut. differences between those developing countries that are accomplishing a transition wide, and income statistics suggest that living standards have improved in many Hong Kong, Singapore, Taiwan and South Korea, but increases in Brazil, from subsistence agriculture to better paying urban jobs. In fact, available data Industrialization usually signifies the emergence of a middle class and a shift into an industrial economy and those that are not have become more The gap between the rich and poor countries has widened substantially, and the life expectancy has gone up. Educational levels have risen more or less world-At the same time, there is more inequality in the world than a generation ago Paulo, New Delhi and Shanghai, with their concentrated poverty and uncontrolled agglomerations in every major developing society — places like Mexico City, São

in affluent industrial societies. In nearly every developing country, unless it is in them: the social reality of the developing world is deeply divided, far more so than developing societies, there is thus a structural aspect common to nearly all of million in Latin America (Castells, 1998:82). For these populations, poverty, even ple, 550 million live in South Asia, 215 million in Sub-Saharan Africa, and 150 increasing. According to the Human Development Report, of these 1.3 billion peomisery, appears ineradicable. USD \$1 per day international poverty line, as defined by the World Bank, has been Despite all the geographic, economic and sociocultural differences among the Yet overall, the number of people in the world who subsist on less than the

Argentina, Venezuela, Bolivia, Peru, and Thailand (Castells, 1998:81).

choice of beverage. On the one hand there are the Western-type alcoholic beversumption by much of the populace, limiting both the frequency of drinking and the problems. In most developing societies, economic realities constrain alcohol conlack of basic amenities, or trying to eke out their livelihood in the countryside. cities and living in slums and shantytowns, with their congestion, squalor and Socioeconomic divisions play out in complex ways in drinking patterns and

middle class. But the majority of the population are poor people either working in global economy. And, depending on the extent of industrialization, there is also the total disarray, there is the elite that governs the country and is connected to the

prosperity even among poor people has been accompanied by dramatic increases in in the recent history of drinking in Japan, South Korea and China, where increased also accompanied economic development in many industrial societies, can be seen higher-prestige European-style beverages. This phenomenon, which historically is thus likely to bring increased drinking, often involving more consumption of In many cultural situations, an improvement in the economic situation of the poor and in particular to Western-style beverages, is often defined as a status marker (Schatzberg, 1980), in developing-society contexts, access to alcoholic beverages, because of the colonial heritage or as a reflection of tenuous distribution networks African pombe and chang'aa and West African palm wine; pulque and chicha in ucts (Haard et al., 1999) and their distillates, often illegally manufactured: East the middle-class. On the other hand are the traditional fermented or brewed prodages that are imported for the elite, and produced locally, in cheaper versions, for Latin America; toddy, samsu and arrack in South and Southeast Asia. Whether

## Changing gender roles

and women have begun to alter nearly everywhere. Yet traditional male attitudes, cheaper and more docile. Elsewhere, especially in Sub-Saharan Africa, the exodus employers in export industries often prefer female to male labour, regarding it as vital role in social development. For instance, in newly industrializing countries which are changing women's position in society and which have made visible their middle-class women in developing societies. It is primarily structural changes seems that the waves of Western feminism have at most reached educated urban oping world. While these attitudes conflict with ideas from Western feminism, it be they Confucian or macho, are still very much in evidence in much of the develrevolutions in transportation and communication, relationships between men Accompanying the increase in urbanization, involvement in wage labour, and

Drinking in Developing Societies: The Economic, Social and Cultural Context

of men to cities in search of work has in practice made rural women heads of families, leaving them to take care of family and subsistence farming. The changes thus often collide with traditional male attitudes and expectations, and they create tensions, strains on family life, and emotional insecurities for women and men alike, although in the long run the strengthening of women's economic and social position will undoubtedly increase humankind's capacity to cope with its problems.

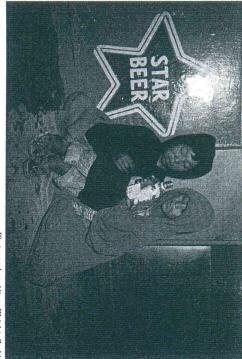
These changes and tensions are often manifested in the arena of drinking and alcohol-related problems. In many traditional societies, notably in Africa, women were (and in some places still are) the producers of homemade alcoholic beverages, even though men were and are the primary consumers (Colson and Scudder, 1988; Maula, 1997). But as women have entered the wage economy, those who are younger, better educated and more successful are increasingly to be found drinking in public settings, and this has meant "that gender and age are now differently constructed in acts of drinking" (Suggs, 1996;606). As such "reconstruction" of the meanings of drinking occurs, women's age-old role as guardians of men's drinking has also begun to shift, particularly in the light of their own drinking.

Gender conflicts concerning drinking, however, remain strong in many developing societies, and are often exacerbated by changing circumstances. Many of the strains between men and women that play out in drinking contexts are graphically illustrated in Christine Eber's poignant accounts of alcohol use in Highland Chiapas, Mexico (Eber, 1995; 2001). And they are echoed as well through many other parts of the developing world. For example, Nero (1990) describes the relationship between drunkenness and domestic violence, in the changing circumstances of Palau, Micronesia. Another manifestation of the shifts and strains in gender relations around drinking are the women's prohibition movements to curtail problems from men's drinking in India (Saxena, 1994; and see Chapter 8 below) and Chuuk, Federated States of Micronesia (Marshall and Marshall, 1990).

## Children and young people

One major demographic difference between the developing and the developed world is the age distribution of the population. For a visitor in a developing country, the sheer number of children and young people around is striking. The emergence of youth as a distinct social category is a global trend. This has mainly resulted from the expansion and lengthening of formal education, creating an enormous gap between generations. Political radicalism, always anti-authoritarian and usually leftist, has been one of its visible signs. It has flared up not just in Paris, Seattle and on American campuses, but also in such places as Mexico City, South Korea, Tien An Men Square in China, Nairobi and Djakarta. As Hobsbawm (1995:298) remarks, in dictatorial countries the students are "the *only* bodies of citizens capable of collective political action".

Another highly visible aspect of the emergence of youth as a social category is that it has created a global market for the entertainment industry and popular music, propagating Western ideals and values and suggesting new role models and consumption patterns. Its inspirations and performers may nowadays come from anywhere in the world, but more often than not they are recycled by U.S.-based multinational corporations, providing the stuff from which youth cultures around the world are built up. These reflect the needs and aspirations of all those

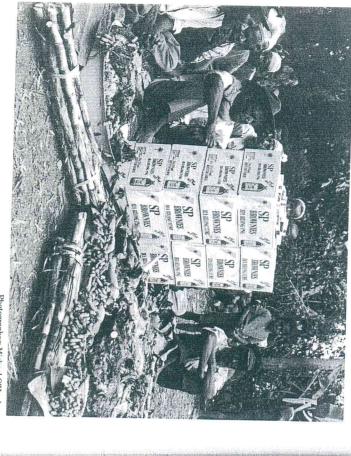


Photographer: Alison Wright, Corbis



Plate 3
Alcohol and street children

Top: Street children on the Kalimati Bridge, Kathmandu, Nepal, drinking alcohol found while rag-picking. Bottom: Children selling beer at an open roadside market, Ibadan, Nigeria. Underage selling is illegal, but the law is not enforced.



Photographer: Michael O'Hanlon

"Alcohol beverages easily take their place in the bricolage"

is receiving a return gift of beer and food from his Omngar "source people" (O'Hanlon, 1993). The beer has often replaced pork in these exchanges. Papua New Guinea highlands, 1980. The person seated to the left of the cartons Cartons of beer are incorporated into a local interclan exchange of presents,

> young people who have no established place in the social order and who face an family and establish one's identity uncertain future. Traditional rites of passage have often become mere relics, and youth cultures have replaced them as a means to distance oneself from one's

and heavy drinking are often taken for granted in the frequently gritty lyrics and mid-teens, in developing as in developed societies (Jernigan, 2001). Mass media youth, experimenting with drinking and drunkenness is well under way by the older systems, the age of initiating drinking tends to fall. Among middle-class to alcohol reserved for mature males. As youth become emancipated from these ambience of popular music. programs associate drinking with cosmopolitan young adult lifestyles. Drinking In many places, traditional societies were often heavily age-graded, with access

streets is a regular aspect of the workforce in many countries. Street children to be exposed to the adverse effects of others' drinking drink heavily. The extent to which drinking is part of the life of such children providing various services, or resorting to begging and petty crime, seem to be dren in school. Children may have to work for their own living, or to support the economic circumstances of the family may make it impossible to keep their chil-Noto et al. (1998), 77% of Brazilian street children between the ages of 15 and 18 adult members of their family. Child labour in factories and sweatshops or in the probably varies with the cultural circumstances. At a minimum, they are likely part of the urban milieu in most big cities of the developing world. According to Education and the consumer society do not, however, reach all children. The

### Changing identities

and inflammable world. ments, which often fuel ethno-religious nationalisms. We live in a highly unstable ers' rights and labour unions, as well as educated professionals, eager to consume allow one to forget that other processes of change are taking place as well and longing for a more liberal political atmosphere. And inequalities feed resent-Industrialization is likely to create industrial working classes demanding work-Singling out just the above four aspects of social transformation should not

ulation use anything that is available to provide their basic means of existence. adopt new consumption items as status symbols, while poor segments of the popof bricolage a mixture, in variable proportions and ways, of Western consumption Contemporary life in developing societies could perhaps be characterized in terms that is, making sense of one's life, becomes problematic (Castells, 1997). patterns and traditional customs and ways of life. The elite and the middle class in neighbourhoods where different ethnic groups often live side by side Traditional communities have dissolved; old norms and values are no longer valid In conditions of rapid social change, establishing and maintaining one's identity,

and express the search for identity. The emergence of new contexts for alcohol use some aspects that are common among highly differentiated contexts of alcohol Despite all the economic and cultural diversity in the world, there appear to be attached to it, and, accordingly, about changes in the consequences of drinking it does tell something about the changes in styles of drinking and in the meanings There are too many other factors at play, especially economic circumstances. But does not in itself tell anything about the quantitative trends in alcohol consumption. Alcohol and other drugs easily serve as symbolic arenas in which to conduct

37

use. There has been a definite white from communal to more individualistic patterns of alcohol use. Traditions and established customs tell people less than in times past where, when, and how to drink; today, the choices are left more to the individual drinker.

In city life, drinking places like African shebeens, Mexican pulquerias and cantinas or Brazilian botecos provide a "home away from home", a place to get together with others from one's village or region. They may serve as islands of stability and sociability, amidst both the individualistic conspicuous consumption of the middle classes, and the new and often urgent and violent struggle for survival of the underclasses in the new megalopolises. Thus the traditions of communal drinking assume new forms and functions, and as we shall see in the next two chapters, cottage industry or industrialized production provides urbanized and commodified versions of traditional drinks.

#### Conclusion

In our times, it is extremely rare to discover a drinking culture unbrushed by the winds of change. Whereas production and consumption of alcoholic beverages were once peculiar to specific locations, particularly since the colonial era certain beverages at least have diffused around the world. As incomes and access to a cash economy and industrially produced alcohol have increased, drinking has tended to increase as well.

Trade winds have brought not only beverages but also cultures and cultural change. Urbanization, revolutions in transportation and communications, increasing articulation of local and global economies and resulting involvement in wage labour and a new global division of labour, changing gender roles, and growing youth cultures and distance between the cultural experience of the young and their elders all influence the patterns of drinking in developing societies. Alcoholic beverages easily take their place in the *bricolage*, whether as carriers of cosmopolitan images or as a part of traditions. The choice to drink, of how much to drink, and of which beverage, and the choice of whom to drink with, in what situation, all become means for claiming and living out an identity.

The next three chapters explore these changes in greater depth. We move from the general to the specific, marshalling the available data to fill in the picture of alcohol in a changing world. We first examine changes in the levels of alcohol production and consumption in developing countries. We then move on to the changes that have taken place in the nature and societal treatment of alcohol itself, as it has moved beyond the boundaries of the local and the communal to the realm of the global and industrial. In Chapter Five, we review the substantial survey and other evidence that documents in more detail the changes in drinking patterns to which we have called attention thus far. We will then be ready to assess the implications of all these changes for alcohol's role in the health and safety of the peoples of the developing world.

# Chapter Three GLOBAL PATTERNS AND TRENDS IN ALCOHOL PRODUCTION AND CONSUMPTION

Within the *bricolage* of life at the end of the 20th Century and beginning of the 21st, how have patterns of production and per capita consumption of alcohol changed? As indicated in Chapter Two, nearly every trend affecting society at large has had an impact on alcohol cultures. Industrialization, urbanization, changing age structures of populations, globalization of cultures and commodities, the rise of new middle classes and elites are all reflected in the ways in which countries and cultures produce and use alcohol. This chapter will describe what is known and discuss what we do not know about how production and per capita consumption of alcohol are changing.

Industrialization brought in its wake changes that have profoundly altered human life, and industrialization has affected the social position of alcohol as well. In the early 19th century the level of alcohol consumption was high in most countries of Europe and North America. It began to decline towards the end of that century, and this decline continued throughout the period between the two world wars. This trend was reversed after the Second World War, and increasing consumption was recorded from the late 1940s to the middle 1970s. This was the period of Hobsbawm's "Golden Age" of unexpected and uniquely fast economic growth accompanied by wide-reaching processes of social and cultural change (Hobsbawm, 1995), in nearly all countries that can provide reasonably accurate statistics. In contrast, the last quarter of the 20th century was characterized by recurring economic and political crises in various parts of the world and insecurity about the future. Accompanying this, alcohol consumption levelled off, or even declined, in a number of countries after the late 1970s or early 1980s.

These "long waves of alcohol consumption", as they have been called, have been most pronounced in Northern and Central Europe and in North America (Mäkelä et al., 1981b; Sulkunen, 1976). In the countries where wine has traditionally been used as a daily nutrient, they have taken place on a different timetable. In France, for example, consumption remained at a relatively high level until steady decline started in the middle 1950s, mainly because of the diminishing popularity of wine. In other parts of the world, there have been historical changes in alcohol intake as well, but available statistical sources do not tell us much about trends or magnitudes of change.

Three general remarks can be made about these historical macro-level changes in alcohol consumption (Mäkelä et al., 1981b). First, they are clearly historical

anchored in particular historical times and conditions, but nonetheless attesting to the fact that alcohol consumption patterns do change over time. Second, it is significant that similar trends and reversals of trends have been recorded roughly within the same period in countries at different stages of economic development and representing a wide variety of alcohol cultures. Third, it is worth observing that these long-term changes in alcohol consumption are affected by changes in affluence, amount of leisure time, social misery, industrialization, and urbanization. But they bear no simple or uniform relationship to them. The effects of these factors vary, depending on the historical and societal context of alcohol use. Poverty appears to be the most consistent limiting factor on alcohol use, but greater affluence does not invariably lead to more drinking. Religion is another important influence, in view of the different stances toward drinking of the major world religions.

## Estimating alcohol consumption

Our statistical base for estimating alcohol consumption in recent years is certainly greater than what is available for earlier eras. Nonetheless, the measurement of alcohol consumption remains an inexact science at best. Most estimates of alcohol consumption rely on data on recorded alcohol production or sales. While there may be fairly reliable data in some developed countries, data sources for developing countries are often scarce, or come from estimates made by international public or private organizations. One of the most comprehensive sources is the data bank of the United Nations Food and Agriculture Organization (FAO). It consists of annual figures on the production, trade, and consumption of foodstuffs, including alcoholic beverages, beginning with 1961. These figures are largely based on data supplied by individual countries, the quality of which varies. In most Islamic countries, for example, alcohol does not officially exist, and the statistics tend to show zero consumption when undoubtedly there is some.

In both developed and developing countries, what is recorded as sold is not quite the same as what is consumed. Exports and imports need to be taken into account, as does alcohol that is not produced for human consumption. An even larger issue than these in many developing countries is estimating the amount of alcohol produced and/or sold informally. This is covered partially if at all in the FAO data. Before reviewing current consumption levels and recent trends, then, we need to give brief consideration to these problems of measurement.

Relationship of production and recorded sales to consumption

Approximately 8% of the recorded production of alcoholic beverages enters international trade (calculated from FAO, 2001). Except in a few island countries, then, most alcoholic beverages are domestically produced. Conversely, in most countries, the largest part of alcoholic beverage production is sold on the home market. Accordingly, any increase in production is likely to find much of its market domestically. Among commercially produced beverages, this is most likely in the case of beer, since only about 5% of beer production is traded internationally, whereas approximately 11% of spirits production and 22% of wine products find their way into global trade.

Apart from production for alcoholic beverages, ethanol is also produced for fuel and for a variety of industrial purposes (e.g., Demetrius, 1990). But fortunately for our purposes here, the product flows of alcoholic beverages and of other ethanol products are almost entirely separated. This separation is usually

enformed by both custom and regulation, reflecting safety, purity and aesthetic concerns about the potability of non-beverage alcohol, as well as concerns of authorities about revenue collection.

Beer is usually consumed within six months of its production; even commercially produced beer in cans or bottles goes stale. In contrast, distilled and fortified alcoholic beverages may be stored for long periods, and table wine may also be aged before sale. Wine and spirits produced in one year are therefore often not consumed in that year. However, stocks carried over from year to year do not substantially attenuate the connection between level of production and level of consumption.

Alcoholic beverages that are sold are usually consumed rather soon thereafter. For the most part, then, the level of alcoholic beverage consumption is closely linked to the amounts produced, although when production or sales statistics are used as a surrogate for consumption in a society, corrections for imports and exports are usual and desirable (WHO, 2000a).

Particularly in developing societies, much alcoholic beverage production may not be recorded in the official statistics. Much of it is produced at home or as a cottage industry in the informal economy. This mode of production is used primarily for fermented beverages in Africa and for both fermented and distilled spirits products in Latin America and Asia (Haard et al., 1999). Illicit industrial production and smuggling also contribute to the unrecorded production. The size of unrecorded production may be estimated from agricultural inputs or from data from local customs, public health or police authorities (e.g., Partanen, 1991:46-50; WHO, 1999), but the estimates tend to be very approximate. When there is an increase in industrial production of alcoholic beverages, recorded in the official statistics, this often to some extent replaces this unrecorded production. But this should not be assumed; consumption of the new production may, to a greater or lesser extent, be added onto existing consumption (Mäkelä et al., 1981b:8-16).

Estimating unrecorded production and consumption: some examples

The magnitude of aggregate annual alcohol consumption is usually obtained from statistics on alcohol sales, compiled in connection with taxation. Or it can be equated with the total supply or availability of alcohol, which is calculated by adding imports and stocks to and subtracting exports from production figures, as has been done to derive many of the graphs in this chapter, where data were available.

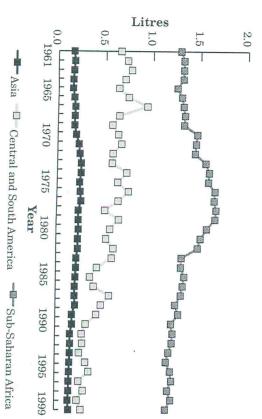
The problem with these statistics, however, is that they almost never achieve full coverage. Unregistered items include household production, illegal brewing and distilling, smuggling, and tourist alcohol, all of which must be estimated separately. In spite of many technical difficulties, it seems that for many industrialized countries estimates of total annual alcohol consumption can be made that are not very far off the mark. In developing countries the difficulties in doing so are of a different order of magnitude, mainly due to the extent of home and cottage industry production of alcoholic beverages, whether legal or illegal.

Registered consumption most frequently falls into one of the three most common international categories of alcoholic beverages: beer (from barley), distilled spirits, and wine (from grapes). In addition to these categories, the FAO estimates production of beers from maize, sorghum or millet; ciders and fruit wines; and alcoholic beverages fermented from wheat or rice. Although such estimates are subject

declining into relative insignificance in the other two macro-regions. Saharan Africa). Beverages falling outside the most common global categories of macro-regions (East and Southeast Asia, Central and South America, and Subof the differential importance of these latter beverage categories for the three developing to all of the caveats given above, Figure 3.1 below (data from FAO, 2001) gives some sense barley beer, distilled spirits or grape wine are important in Sub-Saharan Africa, but are

(Willis, 2000). It seems clear, in any case, that most of the alcohol in Kenya comes from result of 85% of the absolute alcohol consumed being from unregistered consumption share would be 91%. Another estimate based on a "commercial survey" in 1994 gives a the total consumption in Kenya. If the real magnitude were twice Nout's estimate, its (1981; see box), the estimates obtained of the magnitude of unregistered consumption are unregistered sources, that is, from the informal sector of production Kenya were only one half of Nout's estimate, unregistered consumption would be 71% of subject to considerable uncertainty. If the real magnitude of unrecorded consumption in in Tanzania was about 90% (Kilonzo 1989:598). Even with much detailed work by Nout es Salaam regions, it was estimated that the proportion of the unregistered consumption some African countries. On the basis of a survey carried out in 1986 in coastal and Dar Rough estimates of the magnitude of unregistered consumption have been made for

Adult (15+) Per Capita Alcohol Consumption of Alcoholic Beverages other than Barley Beer, Spirits or Grape Wine, by Macro-Region Figure 3.1



erage types that were sold and the average daily sales. In addition, the operators of traditional African beverages and illegally distilled chang aa for the year 1978. home consumption taking place in the vicinity of the beer hall, expressed as a were asked to give their estimates about the rate of illegal trade and try, and their operators were interviewed. This exercise yielded data on the bev-This was based on the system of about 10,000 licensed traditional beer halls in alcohol using existing or separately obtained information on the alcohol contents total sales of various beverages were obtained. These were converted into absolute percentage of the legal trade. On the basis of this information, estimates of the Kenya. Visits were made to scores of randomly chosen beer halls around the coun-In Kenya, Nout (1981) made a major effort to get estimates of the consumption

hol per kilogram of Black Jaggery used. The Black Jaggery industry is a scattered chang'aa production found that the average yield was 0.38 litres of absolute alcoof the beverage types. that an estimated 19.2 million litres of 100% alcohol had been produced in the form small-scale industry, and no official figures on the number of factories or their outfor any other purposes. A detailed analysis of 25 individual cases of utilize Black Jaggery as an ingredient for fermentation, and it is very little used ies on the production process indicated that practically all chang'aa manufacturers the resulting product contains alcohol from 25% up to 60% by volume. Field studadding crude brown sugar ("Black Jaggery"), white refined sugar, or molasses to had to be employed. According to Nout (1981:15), chang'aa is manufactured by have been made, however. The most recent is 50.6 million kilograms, indicating put are available. Rough estimates of the magnitude of Black Jaggery production busaa (maize-based beer) or its residues. The fermented mixture is distilled, and For chang'aa, which is illegally distilled liquor, a different method of estimation

# Estimating current consumption levels in different world regions

a further subdivision of one of these subregions on the basis of alcohol culture. regions into groups of countries on the basis of adult and infant mortalities, with then aggregated to the level of 15 subregions, which subdivide the six WHO tries of the World Health Organization (Rehm et al., forthcoming). The data are sumption levels and proportions of abstainers for each of the 191 member counof Disease for 2000, a sustained attempt has been made to estimate alcohol conare more stable than estimates at a country level. The estimates make use of offi-(WHO, 1999), and data from population surveys and expert informants. cial statistics, the FAO (2001) database, the Global Status Report on Alcohol Given the paucity of data in some world regions, estimates at the subregional level As part of WHO's effort to estimate alcohol's contribution to the Global Burden

particularly low in subregions dominated by Islamic populations and in Sear B capita consumption varies over 30-fold between world subregions. Recorded per recorded in internationally available statistics. It will be seen that recorded per ing world. Within the developing world, recorded per capita consumption is capita consumption is much higher in developed subregions than in the develop-The first column of figures in Table 3.1 shows levels of alcohol consumption as

### Table 3.1

## Estimated alcohol consumption per person aged 15+ in different regions of the world, for 2000 (litres of 100% ethanol per year,

population weighted averages

the Global Burden of Disease 2000 Study. See next page for explanations, and Rehm et al., forthcoming Source: Jürgen Rehm (April 2002), based on estimates for the WHO Comparative Risk Analysis within

													(e.g.	6		(e.g	(Defi	The
Viet Nam)	Wpr B (e.g. China, Philippines,	Wpr A (e.g. Australia, Japan)	Sear D (e.g. Bangladesh, India)	Sear B (eg Indonesia,Thailand)	(e.g. Russian Federation, Ukraine)	Azerbaijan, Tajıkıstanı	Eur B 2 (e.g. Armenia,	Eur B 1 (e.g. Bulgaria, Poland, Turkey)	Eur A (e.g. Germany, France, UK)	Emr D (e.g. Afghanistan, Pakistan)	Emr B (eg Iran, Saudi Arabia)	Amr D (e.g. Bolivia, Peru)	Amr B g. Brazil, Mexico)	Amr A (Canada, Cuba, US)	Afr E (e.g. Ethiopia, South Africa)		WHO Region (Defined on next page)	THE CITORING SITE
	ppines, Spirits	apan) Beer and spirits	(ndia) Spirits	land) Spirits	Spirits	(Zill)	Spirits and wine	Spirits	Wine and beer	Spirits and beer, but scarce data	Spirits and beer but scarce data	Spirits, followed by beer	150	> 50% of consumption is beer, about 25% spirits	Mainly other fer- mented beverages and beer	Mainly other fer- mented beverages	Beverage type mostly consumed	
	s 3.7	pirits 6.8		2.3	8.6		rine 2.1	5.6	11.6	0.3	a 0.9	-		8.3	3.8	2.3	Recorded	
	7 1.3	1.7				ī	2.2	3.7	1.3	0.3	0.4	1.0	2.7	1.0	3.3	2.0	Recorded Consumption consumption	Unrecorded
	5.0		0 0		- I	12 0	4.3	9.3	12.9	0.6	1.0	1 C	n 2.0	9.3	7.1	į	con	Total
				16	23	20	43	. 67	85	10	5 1	12	67	6.2	43			
	57 8.8					16.5	9.9			0.0		11.0	7.6	14.3	16.6	2	per drinker	
	3.8	5	.4	.9	7	OT	9	,									ar.	n

## Table 3.1 (cont'd)

Global Patterns and Trends in Alcohol Production and Consumption

at all in the last 12 months) in this table averages the estimated percentages for males and consumption is estimated from a variety of sources. The percentage of drinkers (drinking 15 and over. Recorded consumption is derived from official or industry figures; unrecorded country were otherwise unavailable, they were extrapolated from nearby countries on the females; these are derived from population surveys, where possible. Where figures for a All consumption levels are in litres of absolute alcohol per resident of the region aged

um or low levels of adult and of infant mortality. WHO's EUR B has been subdivided to basis of similarity of alcohol culture. separate out the relatively low-consumption southern republics of the former Soviet Union. The regional subgroupings below have been defined by WHO on the basis of high, medi-

15 Regions: 191 WHO Member States (defined by geographical location

Afr D Algeria, Angola, Benin, Burkina Faso, Cameroon, Cape Verde, Chad, Comoros, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Madagascar, Mali, Mauritania, Mauritius, Niger, Nigeria, São Tomé and Principe, Senegal, Seychelles, Sierra Leone, Togo

Botswana, Burundi, Central African Republic, Congo, Côte d'Ivoire, Mozambique, Namibia, Rwanda, South Africa, Swaziland, Uganda, Democratic Republic of the Congo, Eritrea, Ethiopia, Kenya, Lesotho, Malawi,

United Republic of Tanzania, Zambia, Zimbabwe

Amr B Antigua and Barbuda, Argentina, Bahamas, Barbados, Belize, Brazil, Chile, Amr A Canada, Cuba, United States of America Guyana, Honduras, Jamaica, Mexico, Panama, Paraguay, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, Colombia, Costa Rica, Dominica, Dominican Republic, El Salvador, Grenada,

Amr D Bolivia, Ecuador, Guatemala, Haiti, Nicaragua, Peru Uruguay, Venezuela

Emr B Bahrain, Cyprus, Iran (Islamic Republic of), Jordan, Kuwait, Lebanon, Libyan Arab Jamahiriya, Oman, Qatar, Saudi Arabia, Syrian Arab Republic,

Tunisia, United Arab Emirates

Eur A Andorra, Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Emr D Afghanistan, Djibouti, Egypt, Iraq, Morocco, Pakistan, Somalia, Sudan, Yemen Germany, Greece, Iceland, Ireland, Israel, Italy, Luxembourg, Malta, Monaco,

Netherlands, Norway, Portugal, San Marino, Slovenia, Spain, Sweden,

Eur B 2 Armenia, Azerbaijan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan Eur B 1 Albania, Bosnia and Herzegovina, Bulgaria, Georgia, Poland, Romania, Slovakia, The Former Yugoslav Republic of Macedonia, Turkey, Yugoslavia

Eur C Belarus, Estonia, Hungary, Kazakhstan, Latvia, Lithuania, Republic of Moldova,

Russian Federation, Ukraine

Sear D Bangladesh, Bhutan, Democratic People's Republic of Korea, India, Maldives, Sear B Indonesia, Sri Lanka, Thailand

Wpr B Cambodia, China, Cook Islands, Fiji, Kiribati, Lao People's Democratic Republic, Wpr A Australia, Brunei Darussalam, Japan, New Zealand, Singapore Niue, Palau, Papua New Guinea, Philippines, Republic of Korea, Samoa, Malaysia, Marshall Islands, Micronesia (Federated States of), Mongolia, Nauru,

Solomon Islands, Tonga, Tuvalu, Vanuatu, Viet Nam

and D (including India and Indonesia). In the remaining subregions (Afr  $\mathbb{E}$ , Amr B, Amr D, Wpr B), alcohol consumption levels vary less than twofold, from 3.7 to

consumption in the subregion including India. In particular, unrecorded consumption accounts for much of the total estimated is particularly high in the African subregions, but also consequential elsewhere. As noted above, estimated unrecorded consumption (second column of figures)

approaches the ranges of the developed-society regions. Four other subregions is that total consumption in some developing country regions (Afr E and Amr B) ta. Three regions, dominated by Islamic countries or India, have estimated con-Amr D, Wpr B, Afr D and Sear B – fall in the range between 3 and 5 litres per capi The net result of adding in unrecorded consumption (third column of figures)

sumption levels of 2 litres or less. greater detail in Chapter Five, many adults also abstain from alcohol. The fourth base, as contributing little to alcohol consumption. But, as we shall discuss in of drinkers is also exceptionally low in the subregion including India, and quite beverage in the last 12 months — that is, drinkers. The clear influence of the gions and areas of the world in proportions that have had a drink of an alcoholic column of figures in Table 3.1 shows that there is great variation between subreeastern Asia and Oceania (Wpr B) show proportions of drinkers that approach the low in the subregion including Indonesia and Thailand. It is also estimated that Islamic prohibition on drinking appears in the two Emr subregions. The proportion proportions in the developed-society subregions. less than half the African adult population drink alcohol. Only Latin America and Thus far, the statistics we have presented have eliminated children from the

consumption levels is substantially reduced: there is less than a threefold variadrinker aged 15 and above. On this basis, the variation between subregions in consumption levels. That is, the column shows the annual consumption per equivalent to those in developed subregions. Levels in Sear B (including this measure are Afr E (16.6) and Sear B (13.7), which have consumption levels lowest (Emr D, 6.0). Developing-country subregions that rank especially high on tion between the highest estimated consumption per drinker (Eur C, 16.5) and the Indonesia) and Amr B are not far behind. The last column of figures in Table 3.1 shows the impact of abstention on

drink in social environments where they are in a minority drink, on the average country or region in how much alcohol is consumed. It seems that those who do about as much as drinkers in much "wetter" social environments These last figures emphasize the importance of the rate of abstainers in a

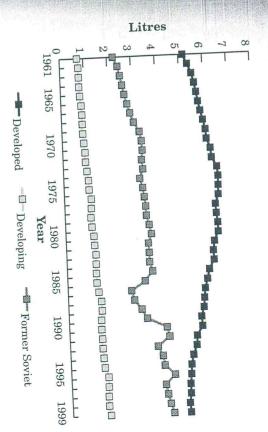
## Recent world trends in recorded alcohol production and consumption

major exception is Japan, where per capita alcohol intake continued to increase and North America, has shown stable or decreasing alcohol consumption levels. A average annual adult (age 15 and above) per capita alcohol consumption in into the 1990s. The European Comparative Alcohol Study (ECAS) estimated that alcohol in Norway to 14.7 litres in Portugal (Leifman, 2001b). These estimates European countries between 1996 and 1998 varied from roughly 7.1 litres of 100% Since about 1980, the developed world, mainly consisting of Western Europe

> rowed (mostly due to a precipitous drop in wine consumption in southern Europe), differences in average consumption levels among developed countries have narinclude both registered and unregistered consumption. In the post-war period, the Simpura, 1998; WHO, 1999; Leifman, 2001a). Cultural differences in drinking with some convergence in drink preferences (Sulkunen, 1976; Mäkelä et al., 1981b; styles has smoothed them by adding new patterns of drinking to the more tradipreferences and patterns persist, but the increased internationalization of life-Global Patterns and Trends in Alcohol Production and Consumption

Table 3.1. In accordance with WHO's Global Status Report on Alcohol (WHO, world are even more limited than the cross-sectional data used for the estimates in tional ways of using alcohol of sources that are superior to FAO where they are available (e.g., sources within 1999), the data used here rely on the FAO (2001) database, and also take advantage each country, or data from World Drink Trends [Productschap voor Gestilleerde Dranken, 2000]). As is usual in alcohol studies, consumption per capita is shown here on a base of the "drinking-age" population, that is, those 15 years old and older. tion of most developing societies. ferent societies, and in particular for the high proportion of children in the popula-To a considerable extent, this controls for the very different age distributions in dif-The available data for tracking trends in alcohol and drinking in the developing

Adult (15+) Per Capita Alcohol Consumption by Development Status Figure 3.2



consumption in the developed nations (reflected above in the discussion of Western consumption in the former Soviet countries following a dip during the anti-alcohol Europe), the steady rise in consumption in the developing world, and the rise in Using these data first to look at global trends, Figure 3.2 shows the decline in

47

campaign of the mid-1980s. Consumption in registered litres per capita remains quite low in most developing countries, and certainly considerably less than in most industrialized countries. In some countries, this is partly due to much of the consumption remaining unrecorded. Per capita figures are also kept down by the fact that, even though the figures are computed on the base of those aged 15 or older, the population base used for the figures includes many abstainers. In particular, in many cultures women drink very little in comparison to women in Europe or North America (see Chapter Five).

However, perhaps the main reason for the low consumption, where religious prohibition is not a factor, is widespread poverty. According to the World Development Indicators (World Bank, 1997, p. 31), 29% of the population in the developing world live on less than US\$1 a day, and their numbers have been increasing. Lack of buying power sets strict limits on consumption, and drinking simply becomes unaffordable. According to Mexican household budget survey data, the 70% of the population with the lowest income in that country accounts for only 47% of the alcohol consumption (Consultores Internacionales, 1998). Low averages, even if they are not spurious because of deficiencies in the data, may nevertheless conceal heavy drinking in some localities and in some groups of population. They should not be taken as an indication of an absence of heavy and problematic use of alcohol.

We will break down trends in the developing world in two steps: first, using the three macro-regions referred to in Chapter Two above; then, looking at examples of variation within these macro-regions at the country level, since each macro-region includes hundreds of millions of inhabitants, and examining trends at this level tends to obscure substantial inter-country and intra-country differences.

Figure 3.3
Adult (15+) Per Capita Alcohol Consumption by Macro-Region

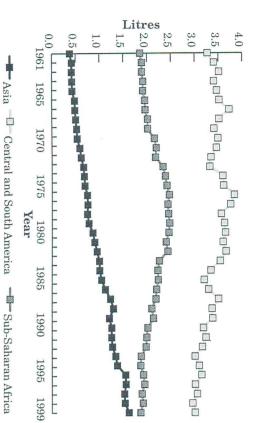
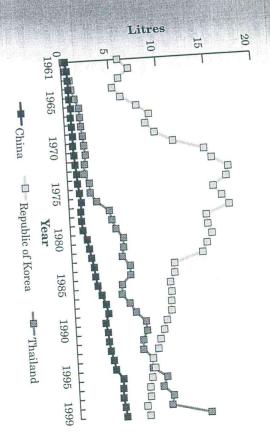
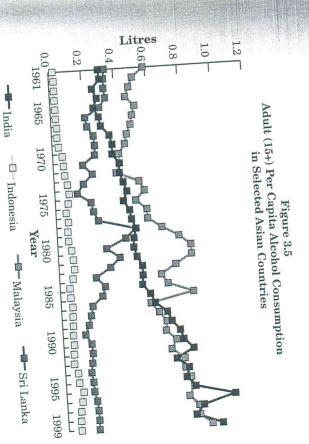


Figure 3.4
Adult (15+) Per Capita Alcohol Consumption in Selected Asian Countries





considerable decline after a peak period from 1974-1982. 3.3). In Asia, alcohol consumption has increased very rapidly, and the rate of three macro-regions correspond to trends in their economic development (Figure America, consumption reached a high point in 1976, while in Africa there was a increase has remained nearly constant throughout the period 1961-1999. In Latin The data suggest that, broadly speaking, changes in alcohol consumption in the

and China, and South Korea showed a very steep rise until 1977, and then a slowexample, while Figure 3.4 shows that a steady pattern of growth holds for Thailand and (majority Islamic) Malaysia, and fluctuated at low levels in Sri Lanka and preer decline, Figure 3.5 illustrates that consumption has grown more slowly in India hidden beneath the apparently smooth curves for the macro-regions. In Asia, for is heavily influenced by China, where beer and spirits have marched steadily dominantly Islamic Indonesia. Thus the overall curve for the Asian macro-region Examples of individual countries give an indication of the extent of variation

exemplar of this trend: the principal motor of growth has been beer consumption, most successful countries, show fairly consistent growth (Figure 3.6). Mexico is an upward since the fall of the "Gang of Four" in 1978. sumption has fallen, as rising beer consumption has cut into longstanding patterns its former levels in the 1990s. In contrast, in Argentina and Chile alcohol conwhich rose steadily until the recession years of the 1980s, and has come back up to of wine consumption, without replacing all of its alcohol content (Figure 3.7). In Central and South America, Brazil, Mexico, and Venezuela, the economically

during difficult economic times is most dramatic in Tanzania, Uganda, Zambia and enforced import substitution beginning in 1978. He also estimates, however, that tremendous expansion in the Nigeria's brewing capacity during the period of Nigeria and South Africa that are visible in Figure 3.9. Gureje (1999) describes the ally are reflected as well in the more gradual downward trends in Ghana, Kenya Zimbabwe (Figure 3.8), but the economic difficulties for sub-Saharan Africa genermid-2001 (Abubakar, 2001). Nonetheless, Nigeria's unused beer production capacwhich forbids alcohol sales and consumption, in twelve northern Nigeria states by future recorded consumption, is the adoption of sharia, the system of Islamic law tor in the period since the fall of Nigeria's military dictatorship, potentially depressing the country is currently using only 50% of the installed brewing capacity. A new facthe rise in alcohol consumption may be expected to continue as well ity suggests that, like much of sub-Saharan Africa, if economic growth resumes In Sub-Saharan Africa, the pattern of consumption first rising, then decreasing

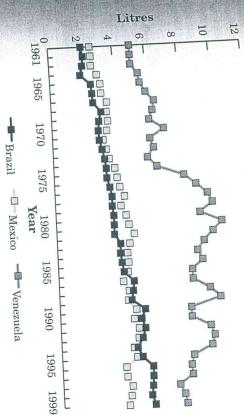
#### Conclusion

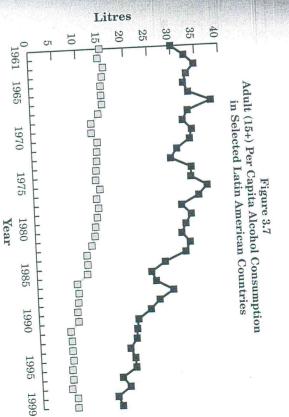
consumption in developing countries, it is difficult to make definitive comments consumption estimates are likely to be. the less important the informal sector becomes and the more accurate per capita The general rule seems to be that the higher the level of industrial development, regarding trends in per capita consumption outside of the industrialized nations. In the absence of accurate and uniform data sources for measuring alcohol

influencing national levels of alcohol use, a country's economic fortunes and level alcohol consumption and resulting problems are likely to climb with rising in the absence of major mitigating influences such as religious prohibitions, of income are quite important. This implies that as economic development occurs, Nonetheless, the evidence available suggests that among the many factors

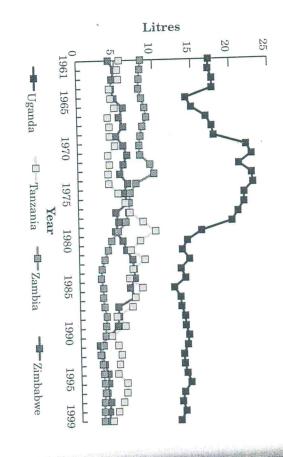
→ Argentina Chile



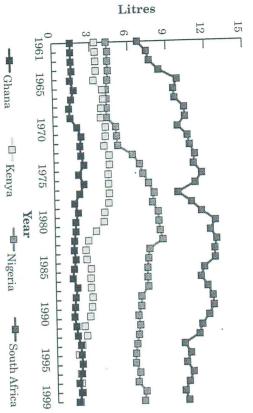




Adult (15+) Per Capita Alcohol Consumption in Selected African Countries Figure 3.8



Adult (15+) Per Capita Alcohol Consumption in Selected African Countries Figure 3.9



to develop effective alcohol policies to reduce or prevent them. nations with new or greater levels of alcohol-related problems, and new challenges some preliminary suggestions about the direction of those changes. However, our understanding is as yet at a fairly crude level. The estimated trends in per capita drinking. The next two chapters will explore each of these in turn, beginning with consumption rest in turn on changes in beverage preferences, and in patterns of the transformations occurring in the product alcohol and its role in developing We have now established that alcohol consumption is changing, and have made

societies.

incomes. As we shall see in Chapter Six, this is likely to present developing

Global Patterns and Trends in Alcohol Production and Consumption

# Chapter 4 ALCOHOL AS A COMMODITY IN DEVELOPING ECONOMIES

#### Introduction

Alcohol has an important economic role in the developing world. At the macro-level, it plays a role in the world economy, as well as in local, regional and national economies. As a commodity, it is often regulated by and a source of revenue for governments at all levels, and trade in it is subject to intergovernmental bodies and agreements. At the micro-level, it affects the family, the community and work organizations. Alcohol's economic role is complex and changing, with both positive and negative aspects.

This chapter begins by describing the diversity of processes by which alcoholic beverages are made in developing societies, and how the structures of alcohol industries and production are changing globally. These in turn affect the structure of international trade in alcohol, which in part shapes the impact of alcohol on national economies. Alcohol's role in developing economies will be explored in terms of revenues to the state, contributions to the national economy, impact on employment, and share in household budgets. Finally, in order to help us understand the impact of all these changes, the chapter attempts to assess who are the winners and the losers in the process of industrialization of alcoholic beverage production and sale that is occurring in many countries.

# Alcoholic beverages as commodities

Like other consumer commodities, alcoholic beverages may be thought of in terms of a commodity chain, that is, a "network of labor and production processes whose end result is a finished commodity" (Hopkins and Wallerstein, 1986; Jernigan, 2000). The chain may be tight and simple, as with traditional beer production in an African village, in which a village woman uses grain grown in the village's fields to make beer for consumption by the men in her family. Or it may be complex and extended, as with a bottle of wine which may be made from different varieties of grapes grown in different places, and which may be the end stage of a process where the fermentation, the blending, the aging and the bottling have each been carried out in different places or even countries, using bottles, corks and labels coming from yet other places.

We can identify four commodity chains for alcohol, which arose in different

historical eras but which as forms of production still exist today. At opposite ends

commodities. Between these are two hybrids: industrially-produced traditional of the spectrum of commodity chains are traditional beverages and globalized beverages, and locally-produced beverages that imitate the cosmopolitan charac-

Table 4.1 Alcohol commodity chains in developing nations

	Design (recipe)	Raw materials	Manufacturing	Imports	Distribution	Marketing	Advertising
Traditional  Traditional	Communally-derived	Locally-grown	Local	None	At point of production, by producer/ producing community	Barter-based or ceremonial; to local communities	Word of mouth of attached to festi- val days, by pro- ducers and their communities
industrial	Imitation of communally- derived product, now in local pri- vate or public hands	Locally-grown	Local	None	Local or national, by private or governmental producers	Cash-based	Price and quality oriented
Peripheral cosmopolitan" (neo-colonial)	Originally from colonial power or trading partners, now in local private hands		Local, in core nations or in or near colonial metropoles	Mainly dis- tilled spirits and wines	By colonial political or economic authorities, or their private assignees	Scrip or cash- based, tied to labour centers; to workers in colo- nial enterprises	Price and quality- oriented, by employers and/or colonial authorities
marketing- driven")	or regional transnational	Local, supplemented by globally-sourced inputs t	Local under control of global ransnationals	Mainly distilled spirits and fine wines	subsidiaries and licensees	Cash-based, target- ing entire popula- tion via on-premise promotions, sponsorships, endorsements, holiday promotions	Culturally- embedded, "lifestyle" oriented, by global advertising agencies or their affiliates

marketing and advertising Many of the postage stamps on the cover of this book were issued to show

Korzeniewicz, 1994): design, raw materials, manufacturing, import, distribution chains for the following stages of production and distribution (drawn from ter of the global commodities. Table 4.1 lays out the characteristics of these four

of production. The Republique Togolaise stamp also shows a stage in tradito commemorate the opening of a lager brewery. Depiction of industrial protional beer production, although the stamp was one of three actually issued implements involved in the home production of traditional beer, a brewing or commemorate one or another of the forms of alcohol production. Two shown on a Mexican stamp, might be considered traditional despite its coloduction of traditional beverages is a rarity on stamps, although tequila pot and a strainer, are shown in the Lesotho stamps, along with the process

nial origin. The Mexican stamp is also commemorating tequila's unusual

erages. The most common alcohol subject on stamps from developing counsuccess as an export product industrial brewery, while Suriname's and Costa Rica's representation of the represent a preindustrial stage in colonial production of cosmopolitan bevtilleries shown in the stamps from Grenada and the British Virgin Islands parts of the developing world early in the colonial period. The historic dismemorate a European beverage, grape wine, which was implanted in some more modest establishment, reflecting the relatively small population of European-style beer. Stamps from the Republique Populaire du Congo and tries is a brewery, specifically an industrial brewery for lager or other this Caribbean island industrial nature of the production is more abstract, and Nevis shows a from Cameroun offer realistic depictions of a modern continuous-process Stamps from Argentina, Brazil, and the Republic of South Africa com-

# Home or craft production of traditional beverages

availability of particular raw materials determined the nature of the product. The needs was often impossible. technological level was low, so that producing in bulk or in excess of immediate priestly caste. Raw materials for alcohol production were obtained locally, and the Saharan Africa, the producers were usually women; in some other societies, the eration among those in the society designated as alcohol producers. In suba society. The means of producing alcohol would be passed from generation to gentended to be the property of the community, whether that be a family, a village or In most traditional societies, the "design" of or recipe for alcoholic beverages

ing family or community. Limited means of storage and transport generally meant Distribution of alcohol was usually carried out by the producer or the produc-



Photographer: Phil Schermeister, Corbis.



Photographer: Justin Willis



Photographer: Justin Willis

#### Plate 5

Home or craft production of traditional alcoholic beverages

ferment. Bottom right: Producing maize beer in Tanzania. clumps of pulp are separated from the juice before the juice is put into a trough to Chihuaha State, Mexico. Bottom left: Filtering banana wine, Uganda. Large Top: A Tarahumara Indian woman stirs a large pot of tesguino, a corn beer,





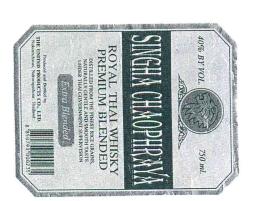


Plate 6

Industrial production of indigenous and of versions of cosmopolitan beverages: bottle labels.

whisky, "distilled from the finest rice grains" nutritional value". Bottom right: an adaptation of a cosmopolitan beverage: Thai Delhi. Note the mandatory warning: "Consumption of liquor is injurious to health". Bottom left: "Preserved natural palm wine", Nigeria; "Shake well for full Top: an Indian "masterbrew pilsner lager beer", using imported hops, for sale in

that little alcohol traveled very far from its point of production. To the extent that that little alcohol traveled very far from its point of production. To the extent that that little alcohol traveled very far from its point of production, as when drinks a market existed for alcohol, it was tied to the exchange of labor, as when drinks a market existed for alond work project. We were brewed to celebrate the completion of the harvest or a joint work project. We were brewed to celebrate the completion of the harvest or a joint work project. People knew where and when alcohol would be available by word of mouth or by the customary association of drinking with particular festivals or community events.

Industrial production of traditional beverages

In many parts of the world, there is by now a tradition of industrial production In many parts of the world, there is by now a tradition of industrial production of alcoholic beverages attuned to traditional local tastes. Examples of this include pulque in Mexico, pinga in Brazil, chibuku or sorghum beer in southern Africa, and makkolli and soju in South Korea. As administrative units grew larger, and steady supply of alcohol available at an accessible price was a basic ensuring a steady supply of alcohol available at an accessible price was a basic oprivate producers under its sway. In the case of colonial governments, taking to private producers under its sway. In the case of colonial governments, taking control of the alcohol supply was often an important ingredient in establishing sovereignty over the native workforce (Van Onselen, 1982; Crush and Ambler, sovereignty over the native workforce (Van Onselen, 1982; Crush and Ambler, to the beverages coming from Europe, and required little marketing or advertisting, since it filled a demand already present in the local traditional culture.

# Indigenized production of cosmopolitan beverages

As described above, Westernized beverages spread outside of Europe with the growth of colonial empires. The importance of alcohol as a force in colonizing nongrowth of colonial empires. The importance of alcohol as a force in colonizing nongrowth of colonial empires. The importance of alcohol as a force in colonizing nongrowth of the sprints began to be produced for regular consumption in 1985). As distilled spirits began to be produced for regular consumption in 1985). As distilled spirits became Europe, these and fortified wines (wines with added distilled spirits) became Europe, these and fortified wines (wines with added distilled spirits) became mainstays of the European export trade. In the course of the colonial period, local mainstays of the European beverages started in many colonies, often production of versions of European beverages started in many colonies, often alongside production of industrialized versions of indigenous beverages.

These Westernized alcoholic beverages provided a ready source of revenue for Colonial governments (Crush and Ambler, 1992). Manipulation of their availability of the colonial governments (Crush and Ambler, 1992).

ity also gave colonial authorities an additional means of control over indigenous populations. Even today, alcoholic beverages are used as a form of payment to indigenous workers in mines and on agricultural estates (Jernigan, 1997; London, indigenous workers in mines and on agricultural estates (Jernigan, 1997; London, 1999). There is great variation in quality, mostly due to unstandardized methods 1999) and the strength of the consequently, advertising has tended to be oriented to beverage more "kick". Consequently, advertising has tended to be oriented to deverage more the consequently, advertising has tended to be oriented to give a pullity and strength on the one hand and price on the other — not surprisingly, quality and strength on the oriented to surprisingly.

given the low income of the constraint of the produced industrial forms of traditional beverages, or adaptations of Locally-produced industrial forms of traditional important in the global alcohol beverages which were European in origin, are still important in the global alcohol supply today, constituting a substantial proportion of recorded production of alcosupply today. In the spirits trade, such products comprised an estimated 54% of holic beverages. In the spirits trade, such products comprised an estimated 54% of holic beverages. In the spirits trade, such products differ from the traditional complobal spirits production in 1994 (Impact Databank, 1995). Generally manufactured with low levels of technology, these products differ from the traditional commodity chain in that production is industrialized and oriented towards the cashbased market.

Indigenized spirits products, because they occupy the low end of the price scale,

cannot compete with the advertising budgets of the international brands. But where international images may be cheaply appropriated, such as on the labels of

Table 4.2 Global alcohol commodity chains by alcohol type

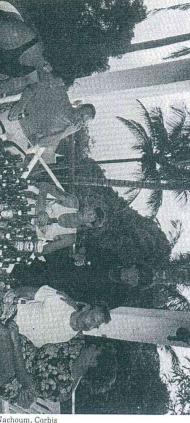
driven") transnational producers producers inputs transnationals transnationals inputs transnationals producers, their subsidiaries ments, holiday their affiliates			Global al	cohol commod	ity chamb of				
Global Wine (non-globalized)  Global Distilled Spirits (moving towards "marketing-driven")  Global Beer ("marketing-driven")  Global Beer ("ma		D : (maine)	Raw materials	Manufacturing	Imports	Distribution	Marketing	Advertising	
Global Distilled Spirits (moving towards 'marketing-driven'')  Global Beer ("marketing-driven")  From global or regional transnational producers  Mostly done in core countries  Mostly done in core countries  Mostly done in core countries  Bottles and in bulk for bottling in the periphery transnational producers, their subsidiaries and licensees  Bottles and in bulk for bottling in the periphery transnational producers, their subsidiaries and licensees  Bottles and in bulk for bottling in the periphery transnational producers, their subsidiaries and licensees  Bottles and in bulk for bottling in the periphery transnational producers, their subsidiaries and licensees  Bottles and in bulk for bottling in the periphery transnational producers, their subsidiaries and licensees  Bottles and in bulk for bottling in the periphery transnational producers, their subsidiaries and licensees  Bottles and in bulk for bottling in the periphery transnational producers, their subsidiaries and licensees  Bottles and in bulk for bottling in the periphery transnational producers, their subsidiaries and licensees  Bottles and in bulk for bottling in the periphery transnational producers, their subsidiaries and licensees  Cash-based, targeting elites with sponsorships, endorsements, holiday transnational producers, their subsidiaries promotions, sponsorships, endorsements, holiday transnational producers, their subsidiaries ing agencies or their affiliates	Global Wine	Many recipes, held by wide range of pro- ducers both	Grown only in suitable climates	Done in suitable climates	producers	production and regionally or globally, by transnational producers, their subsidiaries or	discounting, tar- geting elites	price, high-end via limited advertising	
driven")  Global Beer ("marketing-driven")  Global Beer ("marketing-driven")  From global or regional transnational producers  producers  Local supplemented by globally-sourced inputs  Done locally under control of global transnationals inputs  Bottles, at high end into networks loyal to transnational producers, their subsidiaries  Cash-based, target-ing entire population via on-premise promotions, sponsorships, endorsements, holiday  Cash-based, target-ing entire population via on-premise promotions, sponsorships, endorsements, holiday	Distilled Spirits (moving towards	or regional transnational	countries	in core coun-	in bulk for bottling in	global, by transnational producers, their sub- sidiaries and	discounting and on- premise promotions, targeting elites with sponsorships, endorsements,	high end with culturally-based, "lifestyle" oriented, by global advertis- ing agencies or their affiliates	
and licensees promotions	driven")  Global Bee ("marketing	g- or regional transnationa	mented by globally-	under control	high end	into networks loyal to transnational producers, thei subsidiaries	ing entire popula- tion via on-premise promotions, spon- sorships, endorse- ments, holiday	"lifestyle" oriented, by global advertis- ing agencies or	

61









Photographer: Amos Nachoum, Corbis

Plate 7

owned by Bavaria, the largest private corporation in Colombia. Top right: the Heineken at a resort on Saba Island, Netherlands Antilles "long cool Dane" of Carlsberg's campaign in Malaysia. Bottom: Tourists drinking Cervecería Nacionales, which dominates the Ecuadorian beer market and is Top left: Ecuadorian beer poster, "This one is mine". Advertising and tantalizing: European-style beer and the desirable The beer is brewed by

> Camel, and Ralph Lauren's Polo brand. Such appropriations of international samsu spirits products invoke such international icons as 007, the R.J. Reynolds descript and utilitarian product. Thus for example in Malaysia, labels on the local the bottles, the local spirits producers use them to add cachet to an otherwise nontrademarks generally go unsanctioned

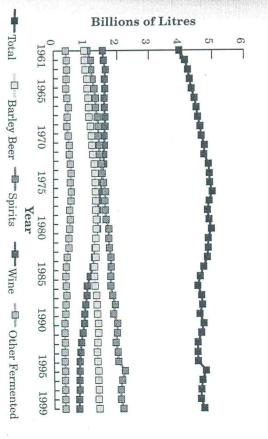
### (marketing-driven global commodity chains) Cosmopolitan industrial beverages

style beverages available wine, distilled spirits and beer. In the present-day world, the dominant type of commodity chain is different for the three different classes of Europeanworld over. Table 4.2 describes the contemporary commodity chains for globally produced by giant global corporations and marketed with a certain uniformity the The most profitable forms of alcohol today are cosmopolitan beverages, mostly

consumption of cheap table wine in southern Europe. As Figure 4.1 shows, the supply of wine worldwide has fallen by more than 50% since 1970, with the fall globalized, although the proportion which is exported has been growing. The largely due to these changes in southern Europe. biggest factor in changes in the wine supply has been the fall in production and regions, mostly located in developed nations. The wine trade is still largely non-Wine production is still tied to a limited (albeit slowly growing) number of

the same period, is the beverage most closely conforming to what Jernigan (2000) European-style beer, production of which has increased by 8% per capita over

Global Supply of Pure Beverage Alcohol, 1961-1999 Source: WHO Global Alcohol Database Figure 4.1



has dubbed the marketing-driven commodity chain model. Technical improvements in the manufacture, transport and storage of beer have contributed to lager beer's emergence as an exemplar of the contemporary marketing-driven commodity chain.

The actual production of the beer primarily occurs relatively close to the point of consumption. Imports exist only in the high end of the market — the so-called super-premium beers. The local manufacture of the beer is controlled by the global brewers, according to their own recipes, but is carried out by local subsidiaries, joint ventures or licensees. The hops are mostly imported from three growing areas: Germany, the United States and Australia. Other raw materials may be bought locally, but are often also imported.

The most important difference between the marketing-driven commodity chain and other alcohol commodity chains lies in the last two links: marketing and advertising. In the traditional and indigenized chains, the product tends to speak for itself. It is marketed based on availability, quality and price. In the marketing-driven commodity chain, the product becomes a symbolic object to which the marketers attach a broad range of significations and connotations. It is presented to the consumer as an entrée into various worlds — of the cosmopolitan and

ed to the consumer as an entrée into various worlds — of the cosmopolitan and urbane, of the brave and patriotic, of the sexy and powerful, of riches and luxury. The status of some alcoholic beverages as luxury items is not a new phenomenon. What is new in the marketing-driven commodity chain is the ubiquity even though this owner may not be involved in the actual production of the bevising. Global advertising agencies or their affiliates generally design the advertising. Some campaigns carry global themes, while others draw on global princis marketed through sponsorships of high-profile sporting events (mainly of through sweepstakes and endorsements by famous sporting figures, among other images.

Distilled spirits is the beverage type with the largest increase in production globally, in terms of alcohol content, over the last 25 years. Spirit production, up 24% per capita since 1970, is increasingly moving in the direction of a marketing-driven commodity chain, particularly in the case of the major international spirits brands. The 46% of spirits that are cosmopolitan — i.e., that are not produced by local firms — come from some of the world's largest and most sophisticated purveyors of consumer goods. This part of the spirits trade displays many aspects of the marketing-driven global commodity chain.

The leading international spirits brands are often promoted in terms of a particular place of origin, and tend to be more dependent than the brewers on particular ingredients and proprietary production technologies. Producing large quantities of high quality spirits requires substantial technology. For some forms of distilled spirits, such as high-end whiskies and cognacs, there is also the need factors, production of high-end spirits is less diffused around the world than, for example, production of Heineken beer, which is sold as a super-premium product everywhere but in its native Netherlands, and produced in close to fifty countries. On the other hand, international spirits firms make heavy use of the marketing

and advertising ends of the commodity chain, defining and building on images of success and sophistication. For instance, although cognacs tend to be gulped success and sipped in East and Southeast Asia, they are marketed as if drinkers rather than sipped in East and Southeast Asia, they are marketed as if drinkers sipped the product with a connoisseur's sensitivity of palate. An image from one culture is thus grafted onto a completely different drinking culture. It is the unage of the product, much more than what it is or how it is drunk, that is key image of the product, much more than what it is or how it is drunk, that is key in the commodity chain. The international spirits brands use international in the commodity chain. The international spirits brands use international advertising campaigns so that they can maintain their international allure. The branch system of the international advertising industry is a perfect fit for this

# Developing countries and the globalization of alcohol industries

Concentration of ownership and the marketing-driven commodity chain The model of the marketing-driven commodity chain reflects the changes in the global organization of alcohol production that have occurred in the past fifty years. The impact of these changes in developing societies has been to move control of the production of alcoholic beverages further away from developing country influsive production of alcoholic beverages further away from developing country influsive production.

ence. Wine is produced in a fairly small number of (mostly developed) countries, and continues to be the most commonly imported and exported alcoholic beverage. As noted above, approximately 22% of global wine production enters international trade, compared to only 11% of spirits and 5% of beer. Ownership of the wine industry is also dispersed around the world, and is the least concentrated of the

In contrast, the principal producers and marketers of beer and distilled spirits In contrast, the principal producers and marketers of beer and distilled spirits are a shrinking group of companies, headquartered for the most part in developed are a shrinking group of companies, headquartered for the most part in developed countries. Measured by volume produced in 1998, the ten largest global spirits companies produced 58% of the world's globalized spirits production which is of cos-1999), that is, of the roughly 46% of world spirits products (Impact Databank, 1995). In mopolitan rather than indigenized spirits products (Impact Databank, 1995). In 1998, nearly 42% of the world's European-style beer was produced by the top ten 1999). In contrast, in the same year the top ten wine companies accounted for only 11.4% of the wine sold throughout the world (Impact Databank, 1999).

This high level of globalization in beer and distilled spirits has important implications for their markets. In most developing countries, the degree of foreign control over production and marketing is high. Recipes are owned by the transnationals and licensed to local subsidiaries or (particularly in the case of brewing) those of global competitors. Foreign nationals supervise production, while most product development is done abroad. Much of the product advertising is also purchased globally. Even when the advertising is produced locally, it is likely to be produced by a local affiliate of the major global advertising agencies. Part of the produced by a local affiliate of the major global advertising agencies. Part of the produced by a local affiliate of the products image. Control over image reason for this is the importance of the products image. Control over image becomes as important as control over the recipe and technology. The size of the largest transnational alcohol producers helps them to maintain their market dominance, as the heavy reliance on advertising and marketing gives the largest firms a substantial cost per unit advantage (Jain, 1994).

Of the top ten global spirits companies, all but one (India's UB Group) are

headquartered in developed countries. In contrast to the pattern followed by transnational beer producers, spirits producers tend to rely on direct export or local bottling of bulk exports rather than on building new distilleries in developing nations. The spirits producers have grown and spread internationally both their brand families via acquisition of other spirits companies. This highlights the international (as opposed to indigenized) brands in 1994, 115 of the top 200 and odical and database covering the alcohol industry, assigns brands a "global distribution index" measuring how widely available each brand selling significant amounts in multiple markets and regions." Sixty percent of these brands Databank, 1995).

Metropolitan to create Diageo. world's largest spirits producer, due to its merger a few years ago with Grand nership with Guinness (ranked 11th) in some markets. Guinness is also the owns part of FEMSA. The second largest global brewer, Heineken, works in partever, to form a company controlling over 60% of Brazil's beer market (Fritsch, FEMSA, ranked 16th. Belgium-based Interbrew, ranked 6th internationally, also Beer, also owns a piece of Antarctica, as well as part of the Mexican brewer 2000). Anheuser-Busch's arch-rival in the U.S. market, Philip Morris's Miller Companhia Cervejaria Brahma was announced, in Brazil's largest corporate deal Antarctica Paulista of Brazil. In 2000, a merger between Antarctica and Mexico, and has an equity interest in the 17th-ranking brewer, Companhia or part-ownership of several of the other leading producers. For instance, world (Cavanagh and Clairmonte, 1985). The top ten brewers also have alliances with leader Anheuser-Busch owns 50.2% of the 8th-ranking brewer, Grupo Modelo of hands since 1980, when the top thirty brewers produced less than half the beer style beer. Control of the global beer market has become concentrated in fewer Twenty companies produce or market more than half of the world's European-

Licensing agreements permit companies that dominate their home markets to control the distribution of imported brands produced by other majors. For instance, Kirin Brewery, producer of half the beer consumed in Japan, also controls distribution of all Seagram's and Anheuser-Busch products in Japan. Molson dominates the Australian beer market, holds the Australian licenses for Miller, Coors, Carlsberg, and Kronenbourg (produced by Group Danone, ranked 14th). Heineken brands, and brews Heineken's Amstel brand under contract. Crosschain for beer.

The major transnational brewers continue to follow a pattern of establishing dominance (oligopoly or near monopoly) of their home market, and then using this as a springboard for international expansion. Of the top ten, only the U.S. companies Miller and Coors do not hold the dominant positions in their home market (they do, however, have the advantage of occupying the number two and three

spots in the world's largest beer market). Globally, one or two major players domspots in the world's largest beer market). Globally, one or two major players domspate each market, with the exception of China and Eastern Europe. The majors
mate each market, with the carlsberg and Heineken are the major playhave regional "spheres of influence": Carlsberg and Heineken. Guinness plays a
ers in Southeast Asia, with Guinness allied with Heineken. Guinness plays a
strong role in Africa, but the dominant player there is the South African giant,
south African Breweries. The North American brewers are moving to cement
alliances with the South American brewers, having been effectively shut out of
Asia and Africa. Eastern Europe and China, markets that have opened up more
recently, are battlegrounds populated by larger numbers of companies.

The combination of "spheres of influence" and licensing and joint-ownership agreements means that there is much less competition than appears in this supposedly highly competitive industry. Contract brewing is fairly common, that is, a global brewer will contract with a local brewery, sometimes operated by a competing global brewer, to produce and market one or more of its brands. Thus Heineken's joint venture in Singapore brews Guinness, and is part owner of a brewery in Malaysia that has the Guinness name on it. Together with the importance and expense of marketing to establish and maintain brands, these arrangements pose formidable barriers to any new entry to the market, whether by a local or a global brewer.

## Carlsberg in Malaysia: A Case Study

The importance of the marketing end of the commodity chain in selling image in order to sell beer in developing countries can be illustrated with the case of Carlsberg in Malaysia. Carlsberg had less than 5% of Malaysia's beer market in the early 1970s. Today it sells more than 60% of the country's beer. The account executive for Carlsberg's local advertising credited the brand's success to a single advertising campaign (Jernigan 2000). Begun in the early 1970s, and targeting primarily drinkers in the rural areas, the "long cool Dane" campaign has consisted of a series of print, cinema and Chinese-language video advertisements starring a lithe and leggy blonde woman, dressed in a white bathing suit. Over time, the blonde has become more and more a part of the beer she advertises, her hair blending into the golden bubbles of the brew (see Plate 7). In the cinema and video ads, she plays opposite the "Carlsberg man", who, in the ads, never actually gets the woman, but can have the beer.

Carlsberg supplements its advertising with point-of-sale promotions, spending 20% of the company's marketing dollars on "women in green" who dress in green dresses or t-shirts and whose sole function is to greet customers at the door of bars and restaurants and offer them a Carlsberg. Beer company-sponsored tours of "beauty queens" through the bars are also a common Malaysian marketing tool. Rock stars also personify the brand's modern and Western image. In a combination of the traditional with the global, Carlsberg funds a local rock and roll band competition that culminates in a tour by the winning bands to the largely privately-financed and privately-run Chinese language schools. Run as a benefit programme for these schools, by 1996 it had raised in excess of RM 100 million (about USD \$40 million at 1995 exchange rates).

globalized. Marketers inscribe the imagery onto beer with the ease of writage with few characteristics to distinguish it from its competitors. This ing on a blank slate (Jernigan 2000). image is culturally-based, but the culture is self-consciously Western and The point of all this activity is to provide an attractive image to a bever-

# The multinationals' role in shaping images of drinking

chain, guarding recipes and keeping production opportunities within the small sion of labour. Transnational corporations control both ends of the commodity frequently working through a small group of global or globally-affiliated advertisclub of global companies, at the same time that they control marketing campaigns, developing nations to exercise control or enhance their position in the global divi-First, the marketing-driven commodity chain minimizes the opportunities for brand establishment. Implications of this pattern for development are twofold beer is their tremendous reliance on the downstream activities of marketing and We have noted that what distinguishes marketing-driven commodities such as

success, and as an activity appropriate at all times, turn the outer limits of the well-taken (Heath 1995). But in the marketing-driven commodity chain, the atti-Natal in December. Dwight Heath's point that "the attitudinal context, rather nies in Brazil are successfully promoting new "carnavals" on other dates. national drinking culture into a norm for substantial sub-populations. As well, ing new to many developing nations. Images of drinking as a badge of Western transnational corporations and advertising agencies. than the beverage, shapes expectations and actions with respect to alcohol" is instance, CarNatal, successfully promoted in the 1990s, takes place in the city of Whereas Brazil's traditional Carnaval occurs in February or March, beer compathe marketing may seek to replicate existing local customs at new times or places tudinal context is being shaped not only by indigenous cultural forces, but also by Second, the marketing seeks to import images and perhaps patterns of drink

# Developing countries and international trade in alcohol

are the only developing countries among the top ten wine exporters. oped countries. Mexico is the only developing country among the top ten spirits exporting countries and the top ten beer exporting countries. Chile and Argentina oped countries. International trade in alcohol primarily occurs between the devel-Alcohol trade, like alcohol production, lies primarily in the control of the devel

share in most developing societies. The primary impact of globalization in the European-style beverages. Given favorable economic conditions, the marketing-driven ages. Conversely, imports of alcoholic beverages have a relatively small market commodity chain is a dynamic driver of change in customs and amounts of drinking locally-produced alcoholic beverages, and particularly of marketing-driven of multinational companies in the ownership, cross-licensing, and promotion of alcohol market of developing societies has thus been through the increasing role societies have been able to develop substantial export markets in alcoholic bever-It is thus only in exceptional cases (as in Mexico and Chile) that developing

# Alcoholic beverages in developing economies

budgets, and on employment. modities and consumer goods. Associated with their sale, also, are many services, economy of a developing society. Alcoholic beverages are in the first place comsider alcohol's impact on national economies and state revenues, on household including the work of the shopkeeper, bartender or waiter. In this section we con-Whatever its mode of production and distribution, alcohol plays a role in the

## Contribution to the national economy

sequences in Chapter Six. also have an interest in minimizing losses, and often spend resources to do so, in on the positive side: a government's economic interests (alcohol's contribution to From the point of view of national interest and public accounts, two of these are (adverse effect on productivity) and public health and order (reproduction). In two areas which alcohol adversely impacts: production of goods and services the economy) and its fiscal (taxation) interests. On the other side, governments this section, we focus on the first two of these areas, considering the adverse con-Four interests of the state in alcohol can be identified (Mäkelä & Viikari, 1977).

national accounts. Industrial production of indigenous or indigenized beverages chains. Household production of traditional beverages may absorb substantial forms and is differentially likely to be counted for the four types of commodity makes a contribution to the national economy. The contribution takes different will usually be recorded, and makes a contribution to the economy also by using labor and other resources, but most of this will not be recorded or appear in the As with any other commodity or service, commerce in alcoholic beverages

most are, for instance, for lager beer production in many African countries), howbution to the national economy. To the extent ingredients are imported (which local agricultural products. ever, the cosmopolitan products may make less use of local agricultural products. national trade balance, because of payments of royalties, fees and profits for joint Even locally-produced cosmopolitan products may have an adverse impact on the early 1970s, breweries were compelled to turn to sorghum as a replacement for imports. Thus in Nigeria, under the "Indigenization Decree" promulgated in the prices of their enzymes. In the end, the expected gain from import substitution pened, these enzymes were not produced locally and the breweries had to rely on of acceptable taste, it has to be treated with some industrial enzymes. As it hapimported barley. However, in order for sorghum to produce European-style beer was lost. By the time the decree was abrogated in 1999, this time because of the the two available sources overseas. The two producers promptly increased the clamouring for a return to imported barley. imperatives of globalization and of an open market, the breweries were already Local industrial production of cosmopolitan products will also make a contri-And substitution of locally-sourced ingredients may still require

each other in the market, with a long-term trend in most places for cosmopolitan some extent, but not completely, the different types of beverages substitute for ucts, which in turn are priced higher than traditionally-produced products. ucts. As the size of the GNP grows, the amount spent on alcoholic beverages thus products, and particularly lager-style beer, to grow at the expense of other prod-Cosmopolitan products are typically priced higher than local industrial prod-

Taxation becomes progressively easier to impose as production becomes more industrialized and more concentrated. A government can successfully drive a large corporation out of business if it fails to pay taxes, whereas it is difficult to enforce taxation of home production without a quite authoritarian social system. From the perspective of government revenue, then, there is a highly positive effect of a shift of consumer preferences and of the alcohol market towards increasingly concentrated industrial production: more of the output is from producers who can be effectively taxed, and less is from untaxed production which can compete on price with the taxed goods.

Home and craft production of alcohol requires some skill. Untaxed production may be more of a problem in societies where such skills are widely diffused, such as in southern Africa, where women have traditionally brewed beer for generations, than in societies such as Papua New Guinea, which had no tradition of home production, or of alcohol production at all, prior to the advent of Western influence.

As an outcome of all these factors, the role of alcohol revenues in state finances varies greatly in the developing world. As a point of comparison, one industry trade group has estimated that alcohol taxes provided 2.4% of revenues in the 12 countries of the EU in 1991 (Naert, 1993). Nigeria recorded roughly the same level of tax income from alcohol, 2% taxes in 1996 and 1997, and the figure is 2.3% for South Africa, while Sri Lanka earned 4% of its revenues from alcohol taxes in 1996 (WHO, 1999). Elsewhere, however, the percentages are much higher. In Cameroon, taxes on locally-produced beer and soft drinks supplied 42% of the government's revenue in 1990 (Ndahne, 1994), while 10% of Kenya's government revenues in 1985 came from alcohol taxes (Partanen, 1989).

National governments are not the only ones benefiting from alcohol taxes: in India, alcohol makes up as much as 23% of some of the states' revenues (Bloomberg News, 1997). Harare, Zimbabwe earned 2% of its municipal revenues from sales in the city-owned beerhalls in 1992 (City of Harare, 1992).

## Share of household budgets

Societies vary widely in the proportion of consumer spending accounted for by alcoholic beverages. In developed countries, the percentage of household incomes spent on alcohol ranges from just more than 1% in Italy and Spain to as high as 6.2% in Finland (Osservatorio Permanente sui Giovani e l'Alcool, 1996; Moser, 1992). It ranges higher in Eastern Europe: Romanians spent an estimated 11% of family income on alcohol in 1991 (Ferrer et al., 1995).

Household budget surveys have been carried out in many developing societies since the 1950s, following standards for sampling and measurement laid out by the UN Statistical Office and other international organizations. Except for most Islamic countries, expenditures on alcoholic beverages are singled out as a standard item. The ILO and FAO statistical services have compiled the data internationally, although often the original national publications contain more detailed data.

The comprehensiveness and quality of the household budget data, however, has serious limitations. The interviews that form the basis for the data are usually with a single member of the household, often an adult woman, and she may well be unaware of some of the household expenditures on alcoholic beverages. Reports often take note of the systematic underreporting of alcohol expenses. Nevertheless, the household budget studies do offer another window into the eco-

nomic role of alcohol consumption in developing societies, as well as limited infor-

mation on the distribution of consumption in the population.

A survey of household consumption expenditure in Uganda in 1989-90, for instance, found that alcohol accounted for 4.5% of expenditures in urban households, and 4.4% in rural households. As is commonly found, the Uganda study

found a higher proportion of expenditure on alcohol in low-income families (6.0%) than in higher-income families (4.5%) in the major cities (Statistics Department,

In interpreting the household budget survey results, the distribution and patterning of drinking in the society need to be kept in mind. If heavy drinking is concentrated in a small portion of the population (as it often is), then the impact of alcohol expenditures on household budgets in drinking families is likely to be much higher. In 98 families in a slum in Delhi, India, where the husband drank at least three times a week, an average of 24% of the total family income was being spent on alcohol (Saxena, 1999). According to Mexico's national survey on incomes and expenses, on a nationwide basis, households spend an average of one percent of household income on alcoholic beverages. This figure is doubled in rural areas, and households earning incomes in the two lowest deciles spend far greater percentages of their income on alcoholic beverages than those in the two highest income deciles (Zurita and Medina-Mora, 1994).

A stratified sample of 1000 adults in a subsistence economy in Micronesia in 1985 found that 12% of drinkers had spent all of their ready money on drink (Marshall, 1987). Questionnaire surveys of urban poor in Sri Lanka found that the 30% of families that used alcohol at all spent more than 30% of their income on it (Alcohol and Drug Information Centre, 1994). In Zimbabwe, households spend an average of 7% of their income on alcohol (Central Statistical Office, 1994). However, since only approximately 40% of Zimbabwean adults drink alcohol (Chinyadza et al., 1993), the percentage spent by households including drinkers is considerably higher.

## Contribution to employment

Countries in which traditional, labour-intensive means of producing alcohol remain prevalent will typically enjoy higher levels of alcohol-related employment. For instance, in Botswana a conservative estimate suggests that at least 20% to 30% of rural households are regularly engaged in brewing traditional beers. At least 90% of these beers are produced for sale (Kortteinen, 1989a). Similarly, in the Gambia, where about 90% of alcohol consumed in the country is palm wine, the impact of its manufacture and marketing on the regional economy is significant, as these activities constitute a major source of cash income and employment. Limited evidence implies that indigenous production and distribution of traditional beers may provide, where it is prevalent, some degree of employment for 7% to 20% of the labour force (Haggblade, 1987).

In many developing societies, women are over-represented among those deriving income from the production of alcoholic beverages. In these countries, production and sale of traditional alcoholic beverages, often on-premises in a modified domestic environment, is a niche that offers economic self-sufficiency to female heads of household and their dependents. An ILO study concluded that "the brewing of traditional brews on a domestic scale may well be the greatest single source of employment particularly for single women in some African countries"

(quoted in Maula, 1997: 218). From small-scale surveys, Maula found that about 1% of the males and 2% of the females in a village in Benin supported themselves at least partly through the production of sodabi (distilled palm wine), while 4% of the males and 7% of the females in a survey of three communities in Dar es Salaam, Tanzania had at least from time to time supported themselves mainly by

As in Europe in previous centuries, a shift to industrially-produced beverages greatly diminishes employment in alcohol production, leaving retail service jobs as the primary type of alcohol-related employment. With industrialized production, the numbers employed in the production of alcohol beverages and their packaging become quite small, and the main contribution to employment in connection with alcoholic beverages is widely diffused in retail and service industries: shop-to employment in the Finnish estimates (e.g., this is 85% of alcohol's contribution to employment in the Finnish estimates [Österberg, 1998]). For many in these most profitable part. The Finnish estimates suggest that half of all employment in the restaurant industry there is attributable to sales of alcoholic beverages. In the restaurant industry there is attributable to sales of alcoholic beverages. In increasing or sustaining alcoholic beverage sales, they often have a larger influence in the political arena than alcohol's share of all consumer sales would suggest.

### The influence of tourism

Tourism from the developed world has become a significant contributor to the economy in many favourably located developing societies. Many such tourists drink more often than those in the host society, even when they are at home; when times their normal daily levels when they are on holiday outside Sweden ing, offer an attractive model to many in the host society, including young people and those involved in the tourist trade (see Plate 7).

Tourists have become an important part of the economy on the island of Lamu, off the coast of Kenya. But, as an elder on the island noted, "tourism is a double-edged sword.... People come here to see the way we live. We are very traditional, even conservative. We do not drink alcohol; we prefer that also bring influences which are difficult for our young people to resist... This puts us in danger: The tourists help us survive, but their money and ways may kill the thing they come here to see. We elders must walk a fine line between accommodating them and maintaining our traditions."

Perhaps more important than any demonstration effects, however, is the influence on local alcohol policy of the many interests – global and local — involved in the tourist industry. Pressure from the hotel or other tourist industries to lower alcohol taxes (see box on Mauritius in Chapter 8) or to increase the times and places where alcohol is available has often become a powerful engine of change.

The arguments often carry political weight, even though there is little evidence on whether changes in alcohol availability actually affect the flow of tourists (Lee, 2001). Even where there is an effort to limit the effects of changes in availability 2001). Even where there is an effort to limit the effects of changes in availability 2001) in the tourists, the effects may reach wider. Thus in Tunisia, where alcohol is served only in the tourist hotels, "during the evenings, the bars in many tourist hotels are largely full of Tunisian men, often making it difficult for the tourists themselves to get served" (Bleasdale and Tapsell, 1999:192).

## Benefits and losses from the industrialization of alcohol production

As the commodity chain descriptions above demonstrate, global alcohol production is changing, as is global alcohol trade. The net results of industrialization of alcohol production are mixed in terms of economic development (Room and Jernigan, 2000). Industrialization of the alcohol supply can improve the overall quality of alcoholic beverages. The variation in quality in informally or home-produced alcohol can on occasion have serious health consequences. The use both of good-quality ingredients and of technologies to ensure product freshness (especially in the case of beer) can benefit consumers. But this is not always the case; industrial producers have also sometimes added questionable substances to their products, e.g., cobalt to beer to give a more stable head (Morin and Daniel, 1967). Where there are no requirements for ingredient labelling on alcoholic beverage containers (as is the case in many countries), there are no formal barriers to questionable additives.

Historically, industrialization of alcohol production in Europe occurred early on in the modernization process. In developing societies today, industrial production of alcoholic beverages is also often seen as an early step in industrialization. With a relatively low level of technology, for example, beer production may use some local inputs to replace what has often been an imported beverage. The technology of production may be transferred to the new production site, raising the genergy of production may be transferred to the new production site, raising the genergy of provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in improved storage facilities at the can provide an incentive for investments in investme

These are the kinds of apparent advantages that have led governments and development agencies such as the World Bank and the Danish Industrialization development agencies such as the World Bank and the Danish Industrialization and Fund for Developing Countries to advocate and support industrialization and modernizing of alcohol production facilities, both as a means of generating employment and as a way to improve the balance of payments.

This rosy picture, however, turns out to be considerably less positive in practice. Although alcohol is an exportable commodity, low-value alcohol is not generally suitable for long-distance trade, due to high transportation costs in comparison to the potential sale price. Most international trade of other alcoholic drinks, sepecially from developing to industrialized countries, is also limited by various trade barriers imposed on goods from developing countries by the developed world. Moreover, in general, only high quality alcohol is traded, which may not apply to drinks produced in developing countries. For the above reasons, success stories of export-led economic growth in alcoholic beverage exports, as in the case of Argentina and Chile, are rare among developing countries. Mexico, with a large developed-country market next door, is the main example of a successful develop-

Alcohol as a Commodity in Developing Economies

61

ing-country exporter of beer and spirits.

Furthermore, some of the apparent benefits to the balance of payments of increasing domestic production of alcohol may not be realized. Kortteinen's (1986:689-690) research indicates that, despite shifts to local production in developing countries of European-style beer, imports of barley and malt from developed to developing countries increased significantly from the 1960s to the 1980s. Kortteinen's findings undercut claims that establishment of local breweries necessarily assists with countries' balance of payments problems.

Industrialization is also likely to lead to a decline in the numbers of people employed in alcohol production. The first and in some cases heaviest losers in terms of employment are the women who had been involved in home-brewing of traditional products. Traditionally, in the Gwembe district of Zambia, as in much of Africa, beer was made only by women and drunk only by men. Colson and Scudder (1988) show that the beginnings of improved transport and a cash economy meant that women found they could earn substantial amounts by brewing beer for sale. Then, when the transport improved, industrially-produced beer of the same type (chibuhu) could be trucked in from Lusaka. Now that the seller did not actually have to make it, the men took over the industry. This meant that women lost doubly. Not only could they no longer have some control over their men's drinking at the supply end, but they also lost an important source of employment.

The technology of alcohol production continues to evolve, and in the developed countries and increasingly in the developing world alcohol production is becoming an integrated and automated industry. New technology has made beer production in particular highly capital intensive. As capital intensity increases, labour needs decline. For instance, when the ABC Brewery in Ghana was privatized, the number of jobs at the brewery fell from 718 to 350 (White and Bhatia, 1998). When Asian Pacific Breweries replaced two older breweries with a new production plant in Singapore in 1990, the total number of workers at the plant fell from more than 600 to 220 (Jernigan 2000). Most of the jobs that remained were on the administrative and service side, while the entire computer-operated bottling line now functions under the supervision of four workers.

It can be argued that this is simply a set of trade-offs, that the loss in employment is offset by a gain via technology transfer. However, as the technical requirements have increased, so has the proprietary control of these technologies by a very small number of global alcohol producers. These producers tend to employ "turn-key" technologies, in which equipment, materials and technical experience are imported ready-made from industrialized countries. The greatest disadvantage is that indigenous personnel are prevented from participating in various stages of industrial development, and therefore from acquiring the relevant skills. For instance, in Nigeria, despite a considerable history in industrial brewing, for technological control, engineering and technical matters there has been a heavy reliance on foreign experts. Similarly, when Singapore's Asian Pacific Breweries modernized its joint venture brewery in Malaysia, the improvements in brewing technology were imported from the parent company in Europe, while the important position of brewmaster remained in the hands of a Dutch national (Jernigan and Indran 1999)

Recently, the World Bank Group has, for the first time, undertaken a general reconsideration of the approach that international investment and development

agencies should take to projects relating to alcoholic beverages. In 2000, the Bank published a Note setting a new set of standards for alcohol investments. The Note published a Note setting a new set of standards for alcohol investments. The Note recognizes such investments as "highly sensitive", and mandates that its staff be righly selective" in approving them, supporting only those projects "with strong developmental impacts which are consistent with public health issues and social developments" (World Bank Group, 2000). Following adoption of this note, the policy concerns" (World Bank Group had as of mid-2001 declined further alcohol investments.

## Alcohol in global trade agreements

Under the impetus of European temperance movements, the colonial powers in Africa signed a series of agreements in the early 20th century aimed at controlling alcohol trade in colonial Africa, particularly the market in "trade spirits" (Pan, 1975; see Plate 2). The effectiveness of these agreements varied considerably with the colonial alcohol policy of the particular European power. By the end of the Second World War, these agreements were essentially in dead-letter status. Except for the international conventions on colonial Africa, the trade in alcoholic beverages has never been subjected to any specific controls at the multinational level (Bruun et al., 1975). There have been occasional regional agreements so share information on alcohol smuggling, and national prohibitions in the 1920s led to some bilateral treaties in support of national control policies. A far more common effect of trade agreements, however, particularly in the present era, has been to undercut rather than to support national alcohol control efforts.

The pattern was set in Europe in the era of national prohibitions. Spain and other wine-producing countries of southern Europe successfully pressed Iceland and Norway to abandon national prohibition, under the threat of banning the import of Nordic fish to their markets (Tyrrell, 1994, pp. 432-433).

Tariffs and Trade (GATT) and its successor the World Trade Organization (WTO), trade agreements for commodities in general have become an instrument to attack regulatory controls on alcohol, including controls of significance to public health. Thus Canada and the United States have used the GATT process to attack each other's alcohol control systems (Ferris et al., 1993). The United States, Canada and the European Union have used the WTO's leverage to eliminate Japan's high taxes on imported spirits. While these taxes were a clear example of the use of tariffs to protect domestic production (of shochu) in violation of neo-classical trade principles, the net effect is likely to drive spirits prices down in Japan. Elsewhere, moves to "harmonize" alcohol taxes within the European Union threaten the high-tax policies of Britain, Ireland and the Nordic countries (Tigerstedt, 1990; McGuiness, 1991; Lubkin, 1996); and the alcohol control structures in Norway, Sweden and Finland have been weakened by decisions of the European Union under regional trade agreements (Tigerstedt and Rosenqvist, 1995; Holder et al., 1998).

Following their success in lowering Japan's spirits tariffs, developed countries have recently moved to file complaints at the WTO alleging that alcohol taxes in South Korea and Chile discriminate in favour of indigenous versus imported spirits (Buckley, 1997; Impact International, 1997). Under pressure from trade complaints from the European Union and the United States, in 2000 South Korea moved to equalize taxes at 72% ad valorem on *soju* (an indigenous 25%-ethanol

Alcohol as a Commodity in Developing Economies

# spirits drink) and imported whiskey (usually 40-43% ethanol) (Kim, 2000). The impact of the WTO is indirect as well as direct: in 1996 Taiwan announced that in order to strengthen its bid for membership in the WTO, it was voluntarily eliminating its alcohol monopoly and establishing a new tax system (Tyson, 1996;

A further threat to alcohol policies is posed by the General Agreement on Trade in Services, or GATS (Grieshaber-Otto and Schacter, 2001), under renegotiation beginning in February 2001. The distribution, service, and promotion of alcohol are regarded in GATS as in the same status as any other kinds of services, without recognition of the public health issues involved. In future years, GATS may effectively undermine alcohol policies by ruling out national or local distribution and advertising restrictions.

duction monopolies, with no allowance for any current or potential public health tional bodies such as the World Bank and the International Monetary Fund for in beer or wine.) The influence of these institutions, along with the neo-classical and a guarantor of private investments, is a partial exception, in that it has hiscosts. (The Multilateral Investment Guarantee Agency, an arm of the World Bank major change in alcohol availability, and in the data vacuum, the global financial beer halls constructed three new ones, all in the "high-density" lower income areas of the capital city Harare's beer halls, the new private company responsible for the role such monopolies might play. In Zimbabwe, in the year following privatization of direct government interventions in the alcohol market, such as retail and proassistance. These bodies have generally advocated and supported the elimination new wave of economic crises has forced national governments to look to internaeconomic assumptions they espouse, has increased over the past decade, as each torically declined to make guarantees on investments in distilled spirits, but not any other commodity, disregarding that alcohol has health and safety risks and recently, have also tended to act towards alcohol as they would have in relation to agencies continue to advocate privatization. no evaluations planned or in process regarding the public health effects of such a already hardest hit by the effects of heavy alcohol use (Jernigan, 1997). There are International financial and development agencies, with little exception until

In global trade agreements, then, no formal recognition is given to the special status of alcoholic beverages as commodities causing health and social harm. In accordance with general ideologies of free trade and free markets, international institutions and advisers have pushed to dismantle measures to control the alcohol market, such as state monopolies on alcohol sales. Although high tax regimes are routinely threatened by smuggling from lower-tax bordering jurisdictions, no standard of comity exists internationally by which countries would have a duty to assist each other in enforcing taxes on alcohol.

These circumstances apply at present for another commodity, tobacco, which is also intricately involved with economic development and international trade, and which also carries severe health consequences. In collaboration with many partners internationally, the World Health Organization has recently moved to address these issues through an international Framework Convention on Tobacco Control (Joossens, 2000). Thinking and experience in this effort might well be drawn on in future for a parallel convention on alcohol control (Jernigan et al., 2000).

#### Conclusion

Throughout much of the developing world, the product alcohol is changing. The evolution from home, cottage or communally-produced beverages to globally marketed commodities brings several apparent benefits to developing countries, most notably tax revenues from an increasingly formalized market. On closer most notably tax revenues from an increasingly formalized market. On closer inspection, however, the glow of these benefits fades in comparison with the costs incurred as sophisticated product development and marketing embed globalized alcoholic beverages in cultures and daily life. The shift in control over alcohol proalcoholic beverages in the village to multinationals located abroad creates social duction from women in the village to multinationals located abroad creates social drapped in the alcohol sectors this shift may help to ensure more consistent against in the alcohol supply, at the same time it brings little to countries in terms of technological advancement. The recent recognition by the World Bank of the special nature of alcohol as a commodity models for other international agencies the need to create exceptions for alcohol in giving free market-oriented development advice and writing international trade agreements.

However, the World Bank is as yet an exception. The global trend in alcohol production and trade is towards adoption of Western-style beverages, production and marketing techniques, accompanied by free market ideologies of privatisation of production and few controls over availability. As the intent of modern alcohol marketing is to shift beverage preferences and to embed new drinking styles and practices, it is fair to assume that the diffusion of globalized products and marketing is leading to changes in drinking patterns and practices. We turn now to review the available evidence of these patterns and practices. With this last piece in place, we will have enough of a picture of alcohol use to be able to move to an examination of the demonstrated and likely adverse consequences of that use, and thence to a discussion of how these may be prevented.

The two classical traditions

"inadequate specification of the male role" or "erratic satisfaction of dependency ily drinking preliterate societies and in the family of American alcoholics, such as ment (McClelland et al., 1972), and Blacker wanted to find similar traits in heavholism. Accordingly, McClelland aimed at developing methods of alcoholism treatto regard the rival explanations as being included in its own theory as special generalizations of these schools of thought was anything but clear. Each seemed sonal power (McClelland et al., 1972). The relationship between the theoretical within the family (Bacon et al., 1965), or that men drink to attain a feeling of perintoxication reduces anxiety (Horton, 1943), that it alleviates dependency conflicts er in terms of generalized functions of intoxication for the individual - e.g., that sought to explain why there was more drunkenness in one society than in anothanalysis in quantitative correlational analyses. Studies in this tradition typically the Human Relations Area Files (Whiting, 1954), using each society as the unit of graphic descriptions of traditional village and tribal societies, as summarized in al level (Room and Mäkelä, 2000). The "holocultural" tradition drew on the ethno-Two main traditions have aimed at analyzing drinking patterns at the cultur-Moreover, the rival theories were all attempts to explain American alco-

ification, the higher the probability that disruptive drinking among the lower lated into greater social control on drinking: the higher the degree of social stratrity. This raised the possibility that a higher degree of social stratification transagriculture) of each society. Field (1962) pointed out that Horton's measure represented a continuum of social organization as well as one of subsistence insecusistence insecurity was measured by the nature of the economy (hunting, herding, nization of society correlated negatively with drunkenness. In Horton's study, sub-Many of the studies argued that the complexity of the political and social orga-

patterns that cannot be explained by the material structure of the society. tures of culture and interaction probably have an autonomous impact on drinking the ongoing interaction of daily life possess their own dynamics. These special feaevery society are bound up with its overall cultural dynamics. Cultural norms and and Bacon, 1976b). Secondly, they made it clear that the drinking customs in drinking customs and the level of alcohol consumption (see especially, Field, 1962, political power relationships are important factors to consider in the study of thing, they showed that even in preliterate societies, social control and social and nations are sought for fluctuations in the level of alcohol consumption. For one and Mäkelä, 2000). The studies are nevertheless useful in two ways when expla-The holocultural tradition has been criticized from a number of angles (Room

that is, cultures where drinking was expected but drunkenness prohibited. The bidden, and Jews and Italians as examples of cultures with "prescriptive" norms, as examples of "proscriptive" cultural groups, for whose members alcohol was forculture. Along the same lines, Mizruchi and Perrucci (1970) distinguished ing. Mizruchi and Perrucci used Mormons and Methodists in the United States between "proscriptive", "prescriptive", and "permissive" cultural norms on drinktoms, with the latter seen as producing high rates of pathological drinking in a Ullman's distinction (1958) between "integrated" and "unintegrated" drinking cusknown as the "sociocultural approach". A landmark study in this line was The second main tradition of classifying cultural drinking patterns became

> gave examples from the general North American and Finnish cultures. Although evidence on the third type was said to be "scanty", Mizruchi and Perrucci mative transformation", an anomic period in which norms were not specified third type, "permissive" norms, was described as "characteristic of periods of nor-

Drinking Patterns in Developing Societies

category into two types: "ambivalent cultures", where "the cultural attitude toward drinking, to behaviours which occur when intoxicated, and to drunken tures", and "over-permissive cultures", where "the cultural attitude is permissive erate societies, in those cultures undergoing considerable social change, and those does not occur completely in societies, but only approximations in certain nonlit-Camba, France and Japan. Pittman commented that "in one sense, this type ... Netherlands. Under "over-permissive cultures", Pittman mentioned the Bolivian Irish drinking, with mention also of some village and tribal societies and of the pathologies". The main discussion under "ambivalent cultures" was of U.S. and toward beverage alcohol usage is one of conflict between co-existing value strucbution of alcoholic beverages" in which there are strong economic vested interests in the production and distri-Pittman's (1967) elaboration on Mizruchi and Perruci's typology split the third

directions (Mäkelä, 1975; Room, 1976a; Frankel and Whitehead, 1981; Orcutt, American drinking culture (Room and Mäkelä, 2000). On the other hand, like the tural tradition, the studies were primarily organized around presumed features of questions about the mode of analysis in some studies. Also, as with the holocul-1991). The analyses relied on a very narrow empirical base, and critics raised ing practices and in rates of problems related to drinking the importance of the relation between drinking and daily life, and of the normaholocultural approach, the sociocultural studies continued to point attention to tive structure concerning drinking, in understanding cultural differences in drink-The sociocultural approach has been critiqued from a number of different

### Other typologies

comparison of "forms and pathology of drinking in three Polynesian societies". In not attempted explicitly comparative studies. One exception was Lemert's (1964) without peaks of intoxication. On Atiu, he found a pattern of "ritual-disciplined weekends, where singing and dancing was accompanied by a "long slow drunk" alcoholism in a North American sense was unknown in any of the three cultures. with disorder, free-floating aggression, rape and spousal abuse. Lemert noted that intoxicated. But it was in Samoa that drinking was most commonly associated integrated", while men on Atiu were definitely more hostile and aggressive when drinkers as "secular drinking". Drinking in Tahiti seemed to Lemert "relatively the typical pattern of drinking away from the public scene in small circles of featuring hymns, conversation and recitations. In Samoa, Lemert characterized drinking" in "bush beer schools", presided over by a sober master of ceremonies, Tahiti, Lemert found a pattern of "festive drinking" on periodic festivals and on The substantial anthropological literature on drinking has for the most part

tures differ greatly in the extent to which drunkenness results in "drunken cultural differences in drunken comportment (1969). The authors argued that culthe ethnographic literature has been MacAndrew and Edgerton's interpretation of changes-for-the-worse", i.e. violent and other deviant behaviour. MacAndrew and Edgerton's discussion was a continuum, with societies in which The most influential discussion of the cultural position of drinking based on

drunken behaviour did not differ at all from sober behaviour at one end, and societies in which serious violence was expected at the other end (Room, 2001). As a constraint on this end of the continuum, MacAndrew and Edgerton postulated a "within limits" clause: that drunken comportment is still governed by norms in such societies, but that they are different norms from the norms for sobriety.

In his study Sociability and Intoxication, focusing on drinking in Africa, Partanen (1991) proposed two contrasting ideal types: "heroic drinking" and "modern drinking". Heroic drinking, in Partanen's formulation, "is the kind of drinking from which all instrumentality and critical self-reflection are absent, and it is a phenomenon that is essentially constituted by the stories and myths spun around it. In the rituals of heroic drinking these stories and myths are re-enacted and brought to life." (1991: 238) In contrast to both pre-modern Europe and North American drinking and traditional African beer cultures, Partanen argued that "alcohol and drinking in modern societies are in a far more marginal position....[While] alcohol is quite freely available and its use is extensive, . . . we are not highly engaged with it . . . The functional uses of alcohol have gained at the cost of 'drinking for drinking's sake'." (1991:248-249)

Mäkelä (1983) approached the issue of the cultural position and regulation of drinking in terms of the use-values of alcohol. Alcohol is unique among psychoactive substances, he pointed out, in the variety of its objective properties for which humans have found uses. Setting aside its use as a fuel and as a solvent, alcoholic beverages are consumed as a medicine, as a nutrient and as an intoxicant. Cultures attach meanings and beliefs to each of these material properties of alcohol. But while the cultural meaning of a particular act of consumption may be defined in terms of one property, each of the other material properties is always simultaneously present.

Mäkelä used this framework to critique Pittman's (1967) classification, noting that "the qualitatively distinct uses of alcohol cannot be arranged on a continuum and that the cultural dynamics of the control of excessive drinking vary according to the historically dominant uses of alcohol". Behind Pittman's continuum, Mäkelä discerned two basic cultural configurations: cultures like Italy in which "nutritional use of alcohol is historically dominant", and cultures where the definition of alcohol as an intoxicant is dominant. "Among the Jews, the Scandinavians and the Camba alike, alcohol is an intoxicant, but these three cultures have developed alternative normative solutions to the regulation of the use of this intoxicant", with alcohol isolated "into a sacral corner" for orthodox Jews, and confined to "clearly demarcated occasions" by the Camba, while "the Scandinavians vacillate between Dionysian acceptance and ascetic condemnation of drunkenness."

Mäkelä's category of nutritional use can be further subdivided into alcohol as a source of calories and alcohol as a thirst-quencher. A further subdivision might also be made in the category of alcohol's use as an intoxicant. Someone who drinks "to relax" is seeking a somewhat different use of alcohol than someone who drinks "to forget everything". Also, while each of the properties of alcohol is always present, even when the consumption may be culturally defined in other terms, uses in terms of one property may diminish alcohol's performance with respect to another. For instance, if alcohol is a significant source of caloric intake, the regularity of use this implies potentially diminishes its effectiveness as an intoxicant, through the mechanisms described as "tolerance".

Finally, two analyses have offered two-dimensional typologies of the cultural

position of drinking. A comparison of drinking habits in European cultures (Ahlström-Laakso, 1976) emphasized differentiations on the integration of drinking with meals, common in southern Europe but not in northern, and on a dimension of intoxication, with stronger traditions in northern Europe of ostensive armkenness and its control by formal criminal law.

drunkenness and its control by formal criminal law.

In an empirical reanalysis of data from the Human Relations Area Files

Partanen (1991:211-214) also offered a two-dimensional typology of the cultural position of drinking, which he then related to indicators of general drinking-related problems in the culture, and of the expression of hostility in relation to drinking. One dimension he named Engagement with Alcohol, incorporating such measures as extent and frequency of drinking and approval of drinking; the other he called Seriousness of Drinking, incorporating quantity consumed on an occasion, duration of the drinking episode, and frequency and approval of drunkenness.

In Partanen's analysis, high reported rates of problems with drinking were related to Seriousness of Drinking, whether or not Engagement with Alcohol was present. On the other hand, the intensity and extremity of the hostility expressed while drinking was strongly related to Seriousness of Drinking only in the absence of Engagement with Alcohol. Partanen noted that the ritualization of drinking and its ceremonial uses that often accompany a high level of Engagement with Alcohol "do, in fact, exert a dampening effect on more extreme forms of drunken comportment." (1991:213)

Most of the studies we have discussed deal with preliterate and village societies, and there is an inbuilt tendency to describe cultures as homogeneous totalities that makes analyzing variations within a culture difficult (Stull, 1975). In today's developing world, a large part of the population lives in large conurbations and in multicultural circumstances, about which there is still little ethnographic literature on drinking. Most anthropological studies of the functionality of drinking describe situations where the average annual intake is very low, whereas, as we have seen, increasing consumption is an important feature in a number of today's developing societies.

However, the classical literature does alert us to the diversity of drinking cultures, and to the importance of the interaction between culture and daily life, in which normative structures have a significant effect on the quantity, frequency, and harmfulness of drinking.

### The diversity of drinking cultures

In considering the diversity of drinking cultures, the range of potential dimensions is quite large. One obvious dimension is the degree of regularity of drinking. This dimension holds implications for such matters as tolerance, and probably also for how much the drinking occasion is set apart from ordinary life. But regularity by itself is not enough. Along with regularity of drinking, there is a need for a differentiation on how widespread at least occasional intoxication is in the culture.

Several more dimensions should probably be taken into account. One is the degree to which drinking and drunkenness are associated with violence. Parallel to this, and unexplored in the typological literature, is the degree to which drinking and drunkenness are culturally associated with sexuality. Another dimension has to do with the social definition of intoxication. There are cultural differences in "how drunk is drunk", which relate to how intoxication fits with core cultural

a change in behaviour. intoxication may be quite frequent, but it will be less extreme and less marked by judgement. Where drinking is a more common lubricant of everyday sociability, sober behaviour, will often be a goal for the drinker rather than an accidental misences are valued, drinking to extreme intoxication, with radical changes from values. We may hypothesize that where trances and altered-consciousness experi-

tionship to other cultural elements: is heavy drinking hidden from daily and famwith who does the heavy drinking, there is the question of its context and relahow do they relate to the culture: as carriers of high prestige or of low? Along heavy drinking reserved for particular social categories and circumstances, and ing groups and contexts and the larger culture. To what extent are drinking and ily life, enclaved within it, or not clearly differentiated from it? A further dimension for consideration is the relationship between heavy drink

in constructing any description of the cultural position of drinking: On this basis, we may put forward a list of dimensions to be taken into account

- cultural approval or disapproval of drinking, and of intoxication by the whole society, and by subgroups;
- extent and nature of cultural definition of main problems from drinking
- importance of alcohol's nutritional value, relation of drinking to meals;
- regularity of drinking, in the society and by social groups;
- degree of intoxication normatively attained in drinking, in the society and by social groups,
- extent and nature of changes in behaviour while drinking violence and sex-
- existence and importance of "fiesta" occasions periods given over to com munal celebratory intoxication;
- social location of heavy drinking groups gender, age, class, status, etc.;
- social context of heavy drinking occasions separated from, enclaved within, or integrated in family life, work life, street and public spaces, etc.

cultural matrix. Any summary description cannot capture the vast number of drinking shows how intimately drinking is tied to many aspects of the social and nuances that are important to members of particular cultures The long list of dimensions required for a description of the cultural position of

sions for classifying the cultural position of drinking in societies are regularity of population surveys of individual drinking drinking and extent of intoxication, as identified by Ahlström-Laakso (1976) and Partanen (1991). We will return to these two below when we discuss results of These complexities can be serviceably simplified, however. The two key dimen-

# Social differentiations and the cultural position of drinking

thought that drinking by a 16-year-old boy was all right, while few respondents in 20th century. A strong minority of adult respondents in the Mexican sample general population samples interviewed in the course of the last quarter of the tions about drinking by age and gender in Mexico, Zambia, Nigeria and China in differentiations. Table 5.1 shows substantial differences in normative expectaly, and in the prerogative to get intoxicated are among the most common status ative to drink alcoholic beverages at all, in the prerogative to drink them regularin specific contexts, and often to specific status groups. Differences in the prerog-In most cultures, norms on drinking are not universally applicable, but apply

> of drinking for a 40-year-old than for a 21-year-old. Within age categories, the Zambia or China found this acceptable. In Nigeria and Mexico, the acceptability Zambia and China there was considerably greater consensus on the acceptability of drinking at all was much the same for a drinker of 21 and one of 40, while in acceptability of drinking at all did not differ much by gender in Nigeria and although except in Mexico this reflected that it was generally considered unacder differentiation on the acceptability of drinking was least for 16-year-olds, for a woman than for a man of the same age. Interestingly, in all samples the gen-Zambia, while fewer Mexican and Chinese respondents found drinking acceptable

ceptable for both boys and girls. Mexican and Chinese respondents were much more likely to find this acceptable In terms of the acceptability of drinking enough to feel the effects, both

intoxication acceptable, according to the age and gender of the drinker: Percent finding drinking acceptable, and finding mild Mexico, Zambia, Nigeria, China Table 5.1

															7
	OK to feel effects	China: some drinking OK	with friends	Nigeria:	OK to feel effects	2 1 00-45	Zambia: some drinking OK		OK to feel effects	some drinking On	Mexico:		if drinker is:		
	2	7		18	1	<b>o</b>	7		57	00	32	16			
	11	67		47	l c	26	49		29		73	17	-	MARKA	male and
-		90		59		71	00		45		857	O.F.	aged		and
	24			NA		60	77		28		63	00	aged 60		
	-	7 4		15		2	U		ш		23		aged 16		
	0	36		42		12	30	0	O	1	47		aged 21		female and
	7.0	200	+	52		55		72	1+	1 /	57		ageu 40		e and
	-		л Э	NA		1.5	1	65 5		9	41		60	harad	

Mexico: N=551, 1978; adults in portions of Mexico City and rural area (Roizen,

Zambia: N=939, 1978; adults in portions of Lusaka and rural area (Roizen, 1988; 1988; Rootman & Moser, 1985)

Nigeria: N=1562, 1988/89; heads of household (mostly male) in Middlebelt

N=14034, 1993; 15-65 years old in urban and rural areas of 3 provinces region (Obot, 1993) (Hao & Young, 2000; Hao et al., 1995)

for a male than for a female at all ages. In all three societies for which we have data — Mexico, Zambia and China — the highest rate of acceptance of drinking enough to feel the effects was for age 40, although the decline in acceptability at age 60 was greater for men in Mexico and China than in Zambia. More than two thirds of Zambian respondents, and close to half of Mexican and Chinese respondents, felt that drinking enough to feel the effects was acceptable for a 40-year-old man.

These normative data from just four societies suggest how finely differentiated and culturally specific age and gender norms about drinking and intoxication can be.

# Ethnoreligious differences in the cultural position of drinking

safe haven without alcohol in a community where many members are struggling with serious drinking problems. On the other hand, this means that conversion to Protestant groups provides a sion of the community as well as important cosmological beliefs (Eber, 1995; 2001) related to drinking. Non-drinking Protestants are seen as challenging the cohe-Indian communities in Mexico provides a third example of ideological conflict Sharia" (Alachenu, 2001). The diffusion of abstentionist Protestantism in rural their actions with their lives since they were acting in accordance with the ages ablaze; "some of the youths explained that they were determined to defend from Nigeria describe Moslem youths setting trucks containing alcoholic beverlook at alcohol as "an Indian problem". In another example, newspaper reports Chinese and particularly among the Indian population, and government officials (Jernigan, 1997, p. 28; Kortteinen, 1999a). Drinking is more common among the sensitive that drinking questions in surveys are omitted for Malay respondents mon among Islamic Malays. But exact figures are not available: the issue is so divergent drinking customs. Conflicting views on alcohol and drinking may become a culturally charged marker. In Malaysia, for instance, drinking is uncom-In many developing societies, different ethnic or religious groups have widely

Beverage preferences may also mark ethnic differences. Thus in Malaysia, the tribal peoples of Sabah and Sarawak continue to drink traditional homemade rice wine. Members of the Indian rural plantation labour force drink mostly samsu (liquor distilled at home or by small local producers) and toddy. Middle-class urbanites mainly drink lager beer and distilled spirits, as do ethnic Chinese who drink (Jernigan & Indran, 1999).

# Between the culture and individual patterns: drinking customs

Drinking customs present an intermediate level of analysis between cultures and individual patterns of drinking. A culture can be described as being composed of an assortment of customs, some of them centred on drinking, some potentially including it, and others specifically excluding it. Over time, the mixture of customs in a culture may change, and some customs or types of occasions may become more frequent. Customs exist above the individual level and their historical development can be traced, but drinking customs are not necessarily direct emanations of a culture as a whole. For example, Carnaval is an important part of Brazilian life, but Brazil is not a "carnival culture".

Some drinking customs are intangible, part of everyday sociability; for instance, the custom in many cultures of informal "toasting" — making a gesture

or speaking some verbal formula as an invitation to drink together. Others take on or are associated with institutional forms: in many cultures, there are places on or are associated with institutional forms: in many cultures, there are places where people gather to drink, which we will refer to as taverns, with recognizable where had architectural arrangements that are typical in the cultural setting. spatial and architectural arrangements that are typical in the cultural setting. spatial forms in different cultures: (1) the drinking group, and reciprocity diverse typical forms in different cultures: (1) the drinking group, and reciprocity customs within it; (2) communal celebrations; and (3) the tavern or on-premises customs within it; (2) communal celebrations; and (3) the tavern or on-premises customs within it; of the range of widely diffused aspects of drinking culture.

## The drinking group and reciprocity customs

ing, and often also before an audience of those who are not part of the drinking on the street, out in the bush or countryside, or in a restaurant or tavern (see box). where others are excluded, whether explicitly or customarily and by assumption. hus levelling. But the drinking group is also potentially a source of social division and in a great many societies drinking together is a sign of mutual trust and stagroup. In the context of the drinking group, drinking is a medium of solidarity, cally social activities, carried on in front of those with whom the drinker is drinkmtoxication affect the individual's consciousness and body, they are thus intrinsisometimes drink alone usually drink more often in groups. While drinking and stances. Half of the males in a Mexican sample, for instance, reported that their Mexico but 33% in Zambia the last drinking occasion was a tavern (Roizen, 1981). the male respondents in Zambia (Roizen, 1981). Conversely, for 18% of males in last drinking occasion was in someone's home, while this was true for only 20% of Typical locations of social drinking vary with the culture and physical circum-In all societies, drinking is mainly a social activity. Even most of those who The drinking group can function in almost any location — in someone's home,

In Khalapur, India, "Rajput alcohol consumption is a group ritual in which the liquor is passed among the participants in a bottle or glass... The aim of the drinking is purely to get as drunk as possible as quickly as possible without passing out... The exclusively male alcohol consumers gather out of sight of families, usually even adult children.... One group met nightly in the school building outside the village to build a fire, cook meat and drink liquor. With the absence of women and the consumption of liquor, there was even some laughter, joking and singing." (Dorschner, 1981:115-117)

Anthropological accounts from many cultures have emphasized the congruence of drinking with cultural values such as hospitality, kinship and reciprocity (e.g., Waddell, 1971; Madsen and Madsen, 1979; Spicer, 1997). Even where alcohol was not present in the traditional culture, it has come to serve as a vehicle for the reciprocal relationships that the culture prescribes (Matthiasson, 1980). An account of the drinking patterns of the group of regular customers at a village beer shop in Togo (see box) typifies drinking group patterns in many societies, although the specifics of the reciprocity expectations and rituals will differ.

"Drinking at Djima's [a village beer shop in Togo] follows fairly predictable patterns... The most common pattern, at least among the shop's 'regulars', is to drink bottled beer in groups and to buy 'rounds'. The large size of the beer bottles produced by the national brewery makes group drinking seem natural. The person who is purchasing a round pours drinks for the other members of the group. By making a special point of avoiding foam and filling each glass to the brim, he shows his generosity.

Buying rounds follows certain norms of reciprocity. There is no expectation, within a given group of drinkers, of an immediate, one-for-one exchange of drinks. On a particular occasion, a drinker may stop drinking and leave before everyone has had a chance to buy rounds. But among the 'regulars' there is a presumption that fairness and reciprocity should prevail. In the long run, everyone is expected to carry his appropriate share of the burden of buying drinks.

Besides buying rounds, the customers at Djima's from time to time perform a variety of small drinking rituals. For example, following traditional practices, customers at the beginning of a drinking session sometimes pour a small libation on the floor 'for the ancestors'. Subsequently, the person buying a round, or someone else, occasionally offers a toast.... In general, throughout the drinking session a variety of small rituals of pouring, toasting, and mutual praise are carried on". (O'Donnell, 1984:31)

The solidarity of the drinking group is often to some extent in opposition to and at the expense of others in the society. Where drinking is primarily limited to men, the solidarity is among men, and the women may complain about it (see e.g., Benedict and Benedict, 1982:199). In Fiji, Walter (1982:435) reports, drinking groups are primarily composed of young men, who do not generally have high status in the village. Women who discover homebrew routinely put salt in it to ruin it. Overnight drinking parties are carried on in the bush outside the village. Initially, at least, there is "an exaggerated concern to keep quiet lest the party be exposed". In other societies, those outside the drinking group may have less social power to act, but nevertheless harbour considerable resentment.

The customs of the drinking group often function to encourage or enforce drinking even against the individual's immediate desires. In many societies, games played in the context of the drinking group require further drinking as a reward or penalty. Customs of buying rounds, with their expectations of reciprocity, tend to favour the pattern of the heaviest drinker in a group; other members of the group may fear being considered unsociable and ungenerous if they do not stay in the successions of drinking rounds to the end. An example from fieldwork in a Mongolian community in China (Williams, 1998) describes vividly the pressures to drink within the drinking group (see box).

signifies a refusal to engage the other on equal and respectful terms. community in China to drink at an even pace and heavily. A refusal to drink the cups are inverted immediately afterward to prove the liquor is gone. A Drinking partners take turns challenging each other to drain the cup, and competitive playfulness animates each challenge, and verbal sparring swallow, and a clever excuse may be rewarded, but it will not offer protec-Challengers may be pacified when someone substitutes a folk song for a serve their drinking honour without succumbing to incapacitation. becomes more intense as the session goes on, as participants seek to pretion to his own drinking obligations at the table. Even after a guest vomits, on another man's behalf. The proxy, however, assumes the burden in addition for long. Etiquette does permit an appointed proxy to consume liquor Williams (1998) describes the strong pressure prevailing in a Mongolian he may not be safe from relentless exhortations to drink still more. Williams these drinking customs. also offers an array of anecdotal examples of serious problems attached to

The choice of drinking or not is thus not solely an individual decision. In many contexts, rejecting a drink will be interpreted as indicating disrespect of the other participants or of important and even sacred communal rituals. Some forms of sociability around drinking actually enforce drinking in ways that may be dangerous.

### Communal celebrations

From a sociological perspective, it is useful to distinguish between two types of communal celebrations as "time out" from normal activities, and often from normal rules of behaviour. In carnival-type celebrations roles and power relationships blur, vanish, or are even reversed (da Matta, 1978), whereas fiesta-type celebrations express fraternization and affirmation of roles. In the following, our extractions expressed the descriptions of the description of the descriptio

A fiesta lasts at least a day and more usually several days. Fiestas are normally scheduled in terms of particular seasons or dates (see box): at harvest time, mally scheduled in terms of particular seasons in a religious calendar, around a when a local market meets, on a special occasion in a religious calendar, around a national anniversary date. They may mark significant life transitions for individuals in the locality, notably a local marriage.

Zimbabwean women by tradition brewed a cloudy or opaque beer made from sorghum or maize for ceremonies, spirit-medium celebrations, or the culmination of community efforts like planting and harvesting (Moses, culmination of took more than a week, and when it was ready, it had to be 1989). Brewing took more than a week, and when it was ready, it had to be drunk promptly, or it would sour to the point of being undrinkable.

During a "beer-drink", other tasks were set aside. Drinking to intoxication, but without complete loss of self-control, was a customary pleasure. The community suffered little harm from it, because it happened during a time regulated by tradition, insulated from work and other responsibilities. Made from sorghum, and averaging 3% alcohol, the beer also had some nutritional value.

91

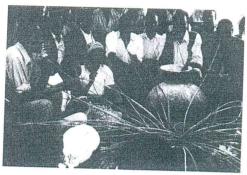
Photographer: Jack Fields, Corbis.











alcohol not just in the general celebrations but also in the communal ritual of the in a town in the Highlands of Chiapas in Mexico underlines the involvement of ing aside everyday concerns and rules. Eber's account (1995:81-106) of the fiesta tive state of consciousness of intoxication is both a symbol for and a means of castpaniment of fiesta-type celebrations, and often at the heart of them. The alterna-

Plate 8 Drinking groups and communal celebrations

Top left: Yapese men drinking beer on United Nations Day; Yap, Federated States of Micronesia. Top right: A group of tribesmen drinking indigenous beer, Konso, Ethiopia. Bottom left: Drinking and dancing in Mexico. Bottom right: A drinking session in

more regular patterns of drinking. community. Now the fiesta drunkenness may commonly come on top of other, may have been the only occasions of drinking, at least for poorer members of the ing to be primarily associated with the fiestas. Fiesta drunkenness in the past often taken as an unofficial holiday to rest up from the drinking of the weekend only public order but also productivity. The jocular expression among British Slowly, in many parts of Europe, the old traditions of markets and fairs as local labourers, "Saint Monday", expressed the pre-industrial reality that Monday was fight against popular traditions of the fiesta, which were seen as threatening not fiestas were repressed in the interests of a "rationalization of leisure" (Gusfield, rum. He won the people over and enacted a 'dry' law when he took office". At the arguing that [the people] could move out of poverty if they would stop drinking for president of a neighbouring town had "led a vigorous prohibition campaign, has been challenged, although not the holding of the fiesta itself. The candidate 1996). In Chiapas, too, Eber reports (1995:99), the tradition of drinking at fiestas In village societies with fiesta traditions, it has been quite common for drink-In many developed societies, part of the process of industrialization was a long

fiesta there, "the town centre was full of people drinking sodas and fruit-flavoured

drinks; however, not everyone was sober." Drinking, though probably less than

before, still went on at stands on the outskirts of town.

only of those that live in the town, but of all that live far and near, drinking that fills much of our time in pre-fiesta days moves into the mercing, trading, sporting, and dancing, offering unto the saint, and bowing the remembrance of the town's patron saint "is continued in the minds not twenty-litre jars of rum" had been distributed to fiesta participants. fiesta, the contents of "eighteen fifty-litre barrels of chicha and thirteen streets, the town hall, and the market-place". Altogether, by the end of the is to play main roles at the fiesta. Once the fiesta has begun, "the ritual kneeling, and praying before him.... Rum and chicha stand out ... from other [fiesta] drinks and food in ... their many-layered symbolic roles." people] say that song is God's favorite sound and that rum heats, and themselves through all-night jam sessions with rum.... Traditional [local fore empowers, musician's words." (Eber, 1995: 80, 90, 92, 96). In the town, as in other towns in the Chiapas highland region in Mexico, Days of preparation are required of the families whose honour and turn it "Some of the most notorious drinkers at fiestas are musicians, who sustain by comthere-

#### The tavern

cision in the regulatory definitions. And places that are primarily taverns often societies, these categories are often not so clearly differentiated, despite any prealcoholic beverages only for consumption elsewhere. In practice in developing ing, but where drinks can be consumed along with the meal, and places which sell even greater (Single, 1997b). Our primary focus here is on places it is possible to huge, darkened beer halls of Germany and Austria, with long parallel tables Mediterranean cultures, with drinkers sitting in small groups around tables; the sell a variety of other goods as well (see box) tainer without having a meal. This excludes places which are primarily for eat buy and consume alcoholic beverages in a glass, mug, bottle or other open coning in a line. The range of variation in drinking-places in developing societies is flanked by benches; and the stand-up bar of the English pub, with drinkers stand drinking-places in European cultures: the open and airy wine shop in Csikszentmihalyi (1968) describes in detail three different types of traditional content of the content of the

al population. So, most villagers who want a cold drink must come here to selection of canned goods .... Also on the shelves are bottles of beer, red wine, get it.... rum, schnapps, scotch, and soft drinks." The store's refrigerator "is one of a the shelves against the rear wall are cigarettes, flashlights, batteries, and a handful in the village. Moreover, it is the only one accessible to the gener-In the beer shop in a Togo village is "an assortment of goods for sale. On "During the dry season, a few chairs and tables are placed in front of

where business is conducted. Occasionally it operates as a bank and lendup his veranda and the roadway beyond." ing institution. And it is a place where, at least informally, many public issues are discussed." The shop "is much more than just a drinking establishment. It is a site

side Djima's place. In fact, on certain festive weekend nights, crowds of peoengaging in conversation. Patrons may also stand around in the road out-

Djima's shop. This permits customers to sit outside, sipping drinks and

On such evenings Djima obligingly sets out a bright kerosene lamp to light ple assemble on the road and dance to the music from Djima's phonograph

a supply of beer for a funeral, wedding or other ceremony. A few truckers ous people may come in to make small purchases,... after the main marketmay stand around discussing where to get loads. And, in the evening, variway through town may stop in for a drink. A farmer may come in to obtain A child may come in to buy some item for his mother. Passengers on their place has shut down for the night". (O'Donnell, 1984:28-30) "In the course of a day, a range of customers pass through Djima's store

range of connections with drinkers in the community, tavern keepers are often politically well-connected, and may become involved in politics themselves as well

With their wide

In most developing societies, taverns are primarily male-dominated spaces, in

frequently have a variety of functions besides serving drinks.

As places of "public accommodation", taverns are natural meeting-places, and

LA PENICILIN Lichten











tographer: Walter Hodges, Corbis

Photographer: Owen Franken, Corbis

Plate 9 The tavern, in diverse forms

Top left: "Gran pulquería 'La Penícílína" in Mexico – presumably the pulque and the camaraderie will cure all ills, like penicillin. Top right: Women toasting with wine at a bar in Hong Kong. Bottom left: Drinkers of local maize beer in a South-west Tanzania beer club. Bottom right: Men and children in a bar in Chile.

duced beverages, often sold by politically-connected male tavernkeepers, has been"), has been a major source of employment and support for widowed women hand, particularly in eastern and southern Africa, where making the traditional in taverns often casts questions on a woman's social standing. In quite a few soci drinking and sexuality, particularly with regard to women (Leigh, 1995), drinking ships in mind. Given that many cultures make a strong association between are also commonly meeting places for those with romantic and sexual relation. part simply reflecting the clientele. But as places of public accommodation, they threatened this traditional source of support for female-headed households and mothers (Jernigan, 1999). Increasing competition from commercially probeverages has been women's work, keeping a tavern, official or unofficial (a "sheeties it would traditionally put her outside the pale of respectability. On the other

ers of palm toddy in the Seychelles are women. "Men drink toddy in the small groups to chat while they drink, but one rarely encounters more than seller, purchase a bottle, drain it, and go on his way. Sometimes men sit in yards of the houses where it is sold. A man will stop by the yard of a toddy drinks publicly is considered a whore". On the other hand, many of the selland teases the men as they drink, thus encouraging them to remain and buy more." (Benedict and Benedict, 1982:196, 200) half a dozen men at any toddy seller's.... A successful woman seller jokes In the Seychelles when the Benedicts did their fieldwork, "a woman who

sures to drink up. keep up the expected drinking pace may come under various subtle or open presand a profit from the drinks the drinker buys. The tavern drinker who does not group, there is a built-in extra source of pressure for more drinking in the tavern ing the space per se; instead, the tavern owner expects to earn the overhead costs that the drinker is occupying and using. Normally, there is no charge for occupy. The drinks he or she buys essentially pay the rent for the public accommodation Besides any pressure the drinker may feel from members of the drinking

over operation of taverns themselves, to remove the private profit interest in up municipal beer halls in the early 1900s as the main legal venue for drinking by greater sales. With a mixture of this motive and a concern for social control of the nate the pressures on the tavern drinker to drink more. Governments often took immune to the desire to profit by increasing sales (see e.g. Jernigan, 1997). clear from the subsequent experience that governments themselves are not can be argued that the halls did hold down some problems from drinking, it is the black working class (Swanson, 1976; la Hausse, 1992; Parry, 1992). While it black population, European-controlled governments all over southern Africa set Over the years, governments in many places have sought to control or elimi

of culture and customs, we now move to the individual, and to considering the drinking settings; these we will describe below in Chapter Eight. From the levels available evidence on how individuals in developing society use or do not use alcohol There are a variety of public health interventions that may be undertaken in

### evidence from population surveys Individual patterns of drinking:

drinking also reflect personal history and inclination. Even within a given culture particular drinking customs and contexts. However, an individual's patterns of both by norms at the cultural or subcultural level and by the norms specified in and status group, there are variations between one individual and another in the Whether an individual drinks, and how often and how much, is thus influenced

ing at the individual level in developing societies. With some exceptions (Room, al adult population concerning patterns of abstention, drinking and heavy drinkindividual drinkers or social groups in a single country. In the context of a single pattern of drinking. society, some commonalities can usually be assumed, even if the comparisons are in comparisons across societies. In the following, we thus confine ourselves to simcome in standard-size containers. Many such commonalities cannot be assumed between different cultural groups in the society— for instance, the drinks usually 1988a), such surveys have usually been carried out to compare patterns between We turn now to the evidence from surveys of probability samples of the gener-

ple levels of comparison. still limited by differences in the underlying questionnaires. The available material also falls far short of representing the range of variation of drinking patterns yses were carried out in accordance with a common plan, their comparability is Bpidemiology in Developing Societies (Demers et al., 2001). Although the reanalreanalyses of existing data-sets carried out for a WHO initiative on Alcohol The comparisons draw on two main sources: published analyses of studies, and

in developing societies. societies have shown that surveys often fall far short of accounting for all the alcogeneral population have their weaknesses. Methodological studies in developed appropriate questions. For instance, being an abstainer may be defined either in proportionately include heavy drinkers. Another reason may be a failure to ask falling short is the failure to sample or interview parts of the population that dissumption covered is often as low as 40% (Midanik, 1982). One reason for surveys hol sales recorded for the population studied; the proportion of recorded con-(Lindgren, 1973; Nelker, 1973). A third reason is erroneous answers or misestione of these terms will not always yield the same answer as asking in the other instance, not having had an alcoholic drink in the past year. Asking a question in terms of a self-defined status or in terms of behaviour in a given time-period, for mation by the respondent. This may be a matter of simple forgetting (Mäkelä, with an element of self-delusion. Generally, underestimation is more likely where 1971). Or it may reflect concealment or underestimation, whether deliberate or of survey responses may thus give a somewhat exaggerated picture of the differis accepted in one group considered to be discreditable in the other, a comparison societies or population subgroups differ in drinking norms, with a behaviour that estimation where the behaviour is positively regarded (Cahalan, 1968-69). Where the behaviour asked about is potentially discreditable, just as there may be over-Like all methods of measuring drinking, surveys of probability samples of the

developing societies. There are also potential problems specific to the context of The problems discussed so far are common to surveys in both developed and

some developing societies. The usual population survey is methodologically individualistic: an isolated individual is being interviewed personally about his or her attitudes, behaviour and experiences. In principle, the interview takes place out, side the surrounding social context, and out of earshot of others. In a developing society, however, arranging privacy for an interview may be difficult or impossible. At a deeper level, the idea that opinions are a matter for individual rather than collective preference may be new and foreign to the respondent, and this may affect the answers that are elicited (Lerner, 1958). Partanen (1990) discusses some of these sources of uncertainty concerning the meaning of survey answers on abstinence in Africa.

Surveys in both developed and developing country contexts have also used a wide variety of methodologies and definitions, of drinking, of heavy drinking, of a drink, and so on. This variation can render cross-country comparisons difficult. Although WHO recently published guidelines for monitoring alcohol consumption and harm, in an attempt both to encourage such monitoring and to standardize and improve the comparability of the measures used (WHO, 2000a), it will take time for this effort to bear fruit.

Despite these drawbacks, population surveys are an indispensable means of describing patterns of drinking and the distribution of drinking behaviour in the population. Unlike alcohol sales or official production statistics, answers to them potentially cover unrecorded as well as recorded consumption, and give us a detailed picture of who in the society is doing the drinking under what circumstances and in what amounts. While ethnographic methods can give us a richer picture of drinking customs and subcultures, probability-sample surveys can more precisely indicate the actual distribution of drinking behaviours and experiences in the population.

### Patterns of abstinence

A first step in characterizing drinking patterns is to chart rates of drinking at all. We have already considered, in Chapter 3, estimates of rates of drinking, as against abstaining, in the last year for WHO subregions (Table 3.1). Table 5.2 shows, for eighteen societies, data on the proportion of general-population respondents who report abstaining or drinking. Where data are available, we have distinguished between never having been a drinker at all, having been a drinker in the past but not in the present, and being a current drinker—either within the last year, or within the last thirty days. The selection of societies is heavily biased towards Latin America, since "lifetime use" has been a common question in the illicit drug surveys conducted there in accordance with U.S. models.

In all of the societies shown in the table, lifetime abstinence is common among adults. In this respect, developing societies differ considerably from most industrialized societies. Except in Haiti, rates of lifetime abstinence are generally higher among women than among men. But there are variations in the extent of divergence between the genders, with the samples from India showing the highest divergence. The Indian samples are from northern parts of the country with higher levels of consumption than elsewhere, but even here drinking is almost entirely confined to males. In Costa Rica, Guatemala and Brazil, too, about half the women report no drinking during their entire lifetime. In a majority of the societies, at least one-third of the women report no drinking in their lifetime. The lowest proportion of lifetime abstainers among women, 21%, is reported for Peru.

Table 5.2 me abstainers, last-year abstainers and current drinkers, percent

Nigeria 1988/9 (Obot, 2001)	(Bovet, 2001)	Sevchelles 1989		Zambia 1978 (Roizen, 1981)	1 1070	et al., 1992)	Thailand	(Park, 1998)	21 Waxaa 1997	(Hao et al., 2001)		(Galduróz et al., 2000)	1000	(Mustonen et al., 20	1008	(Fuentealba et al., 1996) (N=8271)	Chile, 1996	(Bejerano, 2001)	Rica 1995	(Medina Mora et al., 2001) (N=12557)	Mexico 1998	(Mohan et al., 1980)	:	India (Varma et al., 1980)		Писил
ot, 2001) male (1395)	female (	male (504)		female (518)	male (421)	female (2392)	male (1867)	female (621)	male (1132)	female (11541)	male (11972	000) female (1448)	male (963)	(2001) female (1811)	male (1012)	female	male	female (1370)	male (1357)	female	male	female (1510)	male (2064)	female (458)	male (573)	
395)	(563)	04)		(18)	21)	392)	87)	21)	2)	41)	2)	.8) 43	64	1) 36	) 25	18	9	18	9	18	9	98	34	92	35	Lifetime abstainer
46	71	1 0	25	74	43	ייט ייט	30	48	18	74	17			17	-14	38	14	38	14	38	14	0	8	6	24	Last-year abstainer
0	ת ת	29	75	26	90	58	11	53	82	26	82	57	36	47	i c	44		777	4	77		77	500	2	41	drinker

Table 5.2 (cont'd) Lifetime abstainers, last-year abstainers and current drinkers, percent

(all data below from Jutkowitz & Eú, 1994)	vitz & Eu, 1994)	Lifetime abstainer	Last- month abstainer	Drank in past 30 days
Haiti. 1990	Male	41	53	6
(N=2100)	Female	44	51	υī
Guatemala, 1990	Male	35	31	34
(N=1807)	Female	52	29	19
Dominican Republic, 1992	Male	26	25	49
(N=3015)	Female	42	28	30
Panama, 1991	Male	13	33	54
(N=911)	Female	29	48	23
Bolivia, 1993	Male	25	23	52
(N=6000)	Female	·38	30	32
Peru. 1988	Male	12	30	558
(N=6761)	Female	21	43	36

nence is common among men, too. More than one-third of men report this in the Indian, Haitian and Guatemalan samples. Peruvian and Panamian men are the least likely to be lifetime abstainers, but even there the rate is above 10%.

In terms of abstaining during the past year, rates among men in Table 5.2 range from 59% to 15% for the ten societies where this is reported, and from 98% to 46% among women. Drinking during the past year is almost exclusively a male pattern in India, and is least gendered in Chile. Current abstention among females is also a majority behaviour, or close to it, in the three additional Asian societies represented, China, South Korea and Thailand, although a woman who drinks is not as much of a curiosity there as in village India. Costa Rica and Mexico fall in between, with about twice as many male as female current drinkers. Rates of abstention in the last year among Mexican women fell from 65% in 1989 to 56% in 1998 (Medina-Mora & Cravioto, forthcoming; Medina-Mora et al., forthcoming). Again, in all these societies, current abstinence is not an uncommon behaviour for a man.

Spotty as they are in geographic coverage, the results in Table 5.2 remind us that there are substantial portions of the adult population even in non-Islamic societies who never drink at all. In most Islamic societies, the proportion of abstainers would also be high. A 1990 study of medical students in Morocco found that only 23% were current drinkers (Touhami & Bouktib, 1990). A survey by Kortteinen (1999a) in Malaysia found only one among about 314 Malay (and

Islamic) heads of households who acknowledged drinking alcohol, while substantial proportions of ethnic Chinese (32%) and Indian (23%) heads of households

were current grimkers.

The first two columns of figures in Table 5.3 show the estimated proportion of abstainers in 15 world subregions (see Table 3.1 and discussion in Chapter 3). abstainers in 15 world subregions (see Table 3.1 and discussion in Chapter 3). These estimates derive primarily from population surveys, backed up as needed presented for individual countries, rates of abstention are high among males and presented for individual countries, rates of abstention are high among males and even higher among females in the Middle East and South-East Asia. In Africa, even higher among females and more than two-thirds of the females are estimated to abstention. Abstention rates are also high among females in East Asia. Among developing regions, only in Latin America are abstention rates found that fall within oping regions, only in Latin America are abstention rates found that fall within the contract of the females are stated to a state of the females are stimated to a state of the females are estimated to a state of the femal

the same range as those tor developed countries.

It is quite common in developing societies for only a minority of adults to be current drinkers (i.e., to have had a drink in the last year). This pattern differs from the current pattern in all developed societies. On the other hand, in some developing societies, drinking begins for some at a very young age. In Zimbabwe, 31% of those aged 14 years and under reported using alcohol, while in Lesotho 9% of children aged 10-14 and 4% of those aged 5-9 currently use alcohol (Acuda & Eide, 1994; Lesotho Highlands Water Project, 1996).

### Characterizing drinking patterns

As the data in Table 5.2 suggest, varying the time period asked about will yield considerable variation in rates of abstention in a given society. When we turn to characterizing drinking patterns, the range of possible variations in definition is greater, in terms of the amount consumed, in terms of the way the consumption is patterned, and in terms of the circumstances of drinking and behaviour while patterned, and differences in patterns of drinking have been characterized in many different ways, although there is increasing consensus among researchers on many of the issues (Dawson and Room, 2000).

This way of characterizing drinking has the advantage of including all alcohol consumed in a single common metric. However, a common average pattern of two sumed in a single common metric. However, a common average pattern of two drinks per day can summarize quite different patterns of drinking: on the one hand, two drinks each day with the evening meal, or on the other 14 drinks in a

few hours every Saturday night.

Reflecting such differences, descriptions of patterns of drinking in the general Reflecting such differences, descriptions of patterns of drinking with which we population have often used typologies. As in the simple typology with which we concluded the section above on the cultural position of drinking, these typologies are usually built around two dimensions: the frequency of drinking occasions, and some measure of the amount drunk on an occasion (Room, 1990). Often, relativesome measure of the amount drunk on an occasion (Room, 1990). Often, relatively heavy drinking occasions are emphasized in the latter dimension — for ly heavy drinking occasions are emphasized in the latter dimension at

least once a week.

Though it appears quite generalized, any such typology still has a number of cultrally-specific assumptions built into it. A criterion built around weekly patterns turally-specific assumptions built into it. A criterion built around weekly patterns will not work very well in a cultural situation where daily life is not organized in

101

Table 5.3

Estimated proportion of abstainers among men and women, and hazardous drinking pattern score for different WHO subregions (population weighted averages)

WHO Region (for definition see Table 3.1)	males: % abstainers	females: % abstainers	Total consumption	Consumption Hazardous per drinking	Hazardous
Afr D (e.g. Nigeria, Algeria)		73	4.9	13.3	patterns 2.5
Afr E (e.g Ethiopia, South Africa)	45	70	7.1	16.6	3.1
Amr A (Canada, Cuba, US)	27	42	9.3	14.3	2.0
Amr B (e.g. Brazil, Mexico)	25	47	9.0	14.1	S 1
Amr D (e.g. Bolivia, Peru)	26	40	מו	76	j ;
Emr B	82	96	1 0.1	7.6	<u>د</u>
Emr D		00	1.0	11.0	2.0
(e.g. Afghanistan, Pakistan)	83	99	0.6	6.0	2.4
(e.g. Germany, France, UK)	10	19	12.9	15.1	1.3
Eur B 1 (e.g. Bulgaria, Poland, Turkey)	23	43	9.3	14.3	2.9
Eur B 2 (e.g. Armenia, Azerbajan, Tajikistan)	46	67	4.3	9.9	3.0
Eur C (e.g. Russian Federation, Ukraine)	11	19	13.9	16.5	3.6
Sear B (e.g. Indonesia, Thailand)	65	91	3.1	13.7	2.5
Sear D (e.g. Bangladesh, India)	74	96	2.0	12.9	ω Ο
Wpr A (e.g. Australia, Japan)	13	23	8.5	10.4	1.2
Wpr B (eg China, Philippines, Viet Nam)	16	75	5.0	8.8	2.2
Source: Jürgen Rehm (April 2002), based on estimates for the WHO Comparative Rick April 2002.	2), based on est	imates for the	WHO Compar	office Dial A	

within the Global Burden of Disease 2000 Study. See Rehm et al., forthcoming.

terms of weekdays and weekends. Neither will it be very useful in a culture where drinking as often as weekly is uncommon. The unit of "a drink" makes some sense in a culture where alcoholic beverages are consumed from individual containers, and where "a drink" of different alcoholic beverages contains about the same amount of ethanol. But "a drink" is not an easily definable unit when the beverage is consumed by passing a single drinking vessel around a group. Each of these assumptions, in fact, comes into question in one or another developing society.

In the present analysis, we summarize the individual's drinking pattern in terms of two dimensions. The first is the frequency of drinking occasions. We may regard this as a very rough surrogate for Partanen's (1991) dimension of Engagement with Alcohol — the extent to which drinking is for special occasions, or is a part of everyday life. The second is whether the respondent drinks a "high quantity" on an occasion at least sometimes — even if only on a minority of drinking occasions. In principle, the "high quantity" was defined for these tabulations as consuming at least 50-60 gm. (about 7 cl.) of pure alcohol on an occasion, and doing this with some regularity. This amount is equivalent to about five 33-cl. bottles of 5% beer, 60 cl. of 12% table wine (i.e., most of a 75 cl. bottle), or 17 cl. of 40% spirits. In very approximate terms, this measure approaches what Partanen describes in terms of Seriousness of Drinking.

### Frequency of drinking

Table 5.4 shows results on frequency of drinking occasions from surveys in twelve countries. In most of the societies represented in the table, drinking is not a part of everyday life. In all societies shown, women very rarely report drinking nearly every or every day. Only in the Seychelles and in Nigeria do a substantial proportion of men report drinking daily or nearly every day.

Even if drinking is not an everyday activity, if it happens at least every week it may be regarded as part of a regular life routine. In several of the societies in Table 5.4 — South Korea, Zambia, Nigeria and Seychelles — about half of the men report drinking at least once a week. In Thailand and Papua New Guinea, about one-third of the men report this. Relatively few women, however, report this level of frequency in any of the societies; the highest rates are 16% among Zambian, 14% among South Korean and 13% among Thai women.

In a number of the societies — Mexico, Costa Rica, Chile, China, and Papua New Guinea — the modal frequency of drinking reported by male drinkers is 1-3 times a month. For women drinkers, this same modal frequency of drinking is reported in Chile and South Korea; in other societies where the distinction can be made — Mexico, Costa Rica and China — the modal frequency among female drinkers is less than once a month. In a sample from 24 major cities in São Paulo State, Brazil, only 8% of men and 1% of women reported drinking at least 3 or 4 times a week (Galduróz et al., 2000).

The data suggest that drinking is not generally an everyday activity for most of the population in developing societies in Latin America and Asia. While in some societies there is a substantial minority of males who drink every day or nearly so, the modal frequency of drinking among drinkers is usually less than once a week. Women are generally much less likely to drink frequently than men, though in some societies — e.g., Zambia and Chile — the gender difference is greater for abstention rates than it is for frequency of drinkers among those who do drink.

High-quantity drinking

Frequency of drinking, percent (including abstainers)

Table 5.4 (cont'd)

Frequency of drinking, percent (including abstainers)

																			_		
Papua New Guinea* (Marshall & Ialomiteanu, 1998)		yuenyong et al., 1992)	Thailand (Deelert-		(Mohan et al., 2001)	India (3 regions)		(Park, 1998)	South Korea		al., 2001)	China (Hao et		al., 1996) (N=8271)	Chile, 1996 (Fuentealba et		and or company	Costa Rica	et al., 2001)	Mexico (Medina Mora	
males (715)		female (2392)	male (1867)		female	male (32019)		female (621)	male (1132)		female (11541)	male (11972)		female	male		female (1370)	male (1357)	female (5920)	male (5237)	
22	abstainer	55	30	abstainer	>97	72	abstainer & <monthly< td=""><td>48</td><td>18</td><td>abstainer</td><td>74</td><td>17</td><td>abstainer</td><td>46</td><td>33</td><td>abstainer</td><td>71</td><td>45</td><td>64</td><td>30</td><td>abstainer</td></monthly<>	48	18	abstainer	74	17	abstainer	46	33	abstainer	71	45	64	30	abstainer
10	1-4 x yr	33	40	< once		2	z <monthly< td=""><td>16</td><td>6</td><td>1-11 xyr</td><td>16</td><td>17</td><td>1-12 x yr</td><td>23</td><td>18</td><td>not last mo</td><td>15</td><td>17</td><td>24</td><td>22</td><td>1-11 x yr</td></monthly<>	16	6	1-11 xyr	16	17	1-12 x yr	23	18	not last mo	15	17	24	22	1-11 x yr
39	1-4 x mo	ω	0	once a week		12	1-3 x mo	23	22	1-3 x mo	7	30	2-4 x mo	29	42	1-5 x mo	12	23	8	23	1-3 x mo
28	1-4 x	8	16	1-3 x wk	ဃ	10	1-5 x wk	13	50	1-5xwk	2	15	2-3xwk	2	4	6-10 x mo	2	11	ယ	17	1-2xwk
8	x wk	57	15	4+xwk		0	$\kappa wk$	ယ	0	c wk	0	7	4-5 x wk	1	2	11-20xmo	0	1	0	ω	3-4 x wk
22	daily	0,	OT	:wk		6	6-7 x wk	1	4	6-7 x wk	1	13	daily	0	2	21+ x mo	0	ω	Н	OT .	5+x wk

(Bovet, 2001)	Seychelles		Nigeria (Obot, 2001)		(Roizen, 1981)	Zambia	
female (563)	male (504)		male (1395)		female (518)	male (421)	
46	15	abstainer	46	abstainer	74	43	abstainer
4	C <sub>1</sub>		2	1-11 x yr	10	11	1-12 x yr
48	34	<once a="" td="" week<=""><td>4</td><td>1-3 x mo</td><td>2</td><td>ω</td><td>2-4 x mo</td></once>	4	1-3 x mo	2	ω	2-4 x mo
2	10	1-2xwk $3-4xwk$ $5+xwk$	6	1-2xwk	10	25	1-2xwk
0	0		7	abstainer $\begin{bmatrix} 1-11x & yr \end{bmatrix}$ $\begin{bmatrix} 1-3x & mo \end{bmatrix}$ $\begin{bmatrix} 1-2x & wk \end{bmatrix}$ $\begin{bmatrix} 3-4x & wk \end{bmatrix}$ $\begin{bmatrix} 5+x & wk \end{bmatrix}$	ယ	11	abstainer $\left  1.12  x  yr \right  2.4  x  mo  \left  1.2  x  wk \right  3.4  x  wk  daily$
0	30	5+ x wk	36	5+ x wk	ယ	8	daily

\* This is a sample of university students, military men, and employees of a commercial concern with an average age of about 25.

ing patterns include occasions of high-quantity drinking (second column of figures). The actual criterion varies somewhat with each dataset, so that the comparisons between samples are by no means exact. For comparison, the proportion with a drinking frequency of at least weekly is also shown in the table (first column of figures). Where available, the proportion who are both weekly drinkers and regular high-quantity drinkers is also reported (last column).

Drinking a high quantity with some regularity is normative behaviour among male drinkers in a majority of the developing societies for which we have data. Among Mexican males who are current drinkers, for instance, 70% drink high quantities fairly regularly; for Papua New Guinean males, the figure is 67%, for Nigerian males 69%, for Namibian males 46%, and for Indian males who drink at least monthly, it is 93%. Only in the two societies on the list where current drinking is most nearly universal among males, Seychelles and South Korea, is high-quantity drinking definitively a minority phenomenon among male drinkers (34%).

and 27% respectively).

Combining relatively regular drinking (weekly +) with high-quantity drinking is most common in Nigeria among the societies for which we have data; one-third of the Nigerian males report this, while fewer than one-quarter report it in the other societies studied.

The customary pattern of drinking both frequently and to intoxication appears in substantial percentages of drinkers throughout the African region. Of the 74% of Zimbabwean industrial workers who report drinking, 66% drink every weekend and 22% drink daily (Moses, 1989). Another study of Zimbabwean hospital workers found that 93% of male and 68% of female current drinkers drank to intoxication every time they drank (Butau, 1992). In Lesotho, 33% of male and 16% of female drinkers reported spending the entire day drinking, while 29% of men and