



**MODEL-BASED APPRAISAL OF ALCOHOL  
MINIMUM PRICING AND OFF-LICENSED TRADE  
DISCOUNT BANS IN SCOTLAND USING THE  
SHEFFIELD ALCOHOL POLICY MODEL (v 2):-  
AN UPDATE BASED ON NEWLY AVAILABLE  
DATA**

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## **AUTHORSHIP**

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## **CONFLICTS OF INTEREST**

The authors have no conflicts of interest.

## **ACKNOWLEDGMENTS**

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We also thank Crispin Acton at the UK Department of Health for access to market research data procured from CGA Strategy.

The original data creators, depositors or copyright holders, the funders of the Data Collections (where different) and the UK Data Archive bear no responsibility for the analysis and interpretation of the Expenditure and Food Survey, Labour Force Survey, and Offending Crime and Justice Survey data sets downloaded from the Economic and Social Data Service and used in this study.

## **EXECUTIVE SUMMARY**

### **SCOPE OF RESEARCH**

In 2009, ScHARR developed an adaptation of the Sheffield Alcohol Policy Model for the population of Scotland. The findings of this modelling work “Model-based appraisal of alcohol minimum pricing and off-licensed trade discount bans in Scotland – A Scottish adaptation of the Sheffield Alcohol Policy Model version 2. Report to the Scottish Government. September 2009.” was published on 28 September 2009 (Purshouse et al, 2009b).

Since this time, a series of more up to date datasets have become available.

- New consumption data from the Scottish Health Survey (SHeS) and Scottish Schools Adolescent Lifestyle and Substance Use Survey (SALSUS) has become available for 2008 (the data in the previous model relates to 2003 for SHeS and 2006 for SALSUS).
- The Scottish Government has also procured market research data on the 2008/09 price distribution of off-trade alcohol (in terms of ethanol content) in Scotland from The Nielsen Company.
- New mortality data is available for 2008.
- Police recorded crime statistics and Scottish Crime and Justice Survey (SCJS) data are now available for 2008/09.

The requirement of this research project was to update the previous Scotland model with the new data to provide revised estimates of the effects of current proposals for minimum pricing and prohibition of off-trade discounting. The technical details of the methodology have not been changed. Therefore the methods section (Chapter 2) of the previously published report was not reproduced.

The set of policies analysed remains the same as in the original research:

1. What are the likely effects of introducing a minimum unit price on alcohol consumption, sales, health, crime and workplace harms in Scotland?
2. What are the likely effects of introducing a ban on price-based promotions in the off-licensed trade in Scotland?
3. What are the likely effects of introducing a minimum unit price simultaneously with a ban on price-based promotions in the off-licensed trade in Scotland?

## SUMMARY OF MODEL FINDINGS

### Overview

- M1. This updated report, which incorporates data on alcohol consumption data from the 2008 Scottish Health Survey (SHeS) and the 2008 Scottish Schools Adolescent Lifestyle and Substance Use Survey (SALSUS), market research data on the 2008/09 price distribution of off-trade alcohol, and updated mortality (2008) and crime (2008/09) statistics, shows results which are broadly similar to those presented in the September 2009 Sheffield report.
- M2. Increasing levels of minimum pricing show steep increases in effectiveness.

Minimum Unit Price	% change in consumption	
	Minimum Price (only)	Minimum Unit Price plus Discount Ban
25p	-0.1%	-3.2%
30p	-0.3%	-3.4%
35p	-1.0%	-4.0%
40p	-2.3%	-5.1%
45p	-4.3%	-6.7%
50p	-6.7%	-8.7%
55p	-9.5%	-11.2%
60p	-12.3%	-13.7%
65p	-15.3%	-16.5%
70p	-18.4%	-19.5%

- M3. A total ban on off-trade discounting is estimated to change overall consumption by -3.1%. Note that the 'total ban' is assumed to prohibit all forms of price-based promotion, including straight discounting from list price in addition to multi-buy offers (such as 'buy three for the price of two'). Less restrictive types of ban have not been appraised because the market research data available to the study does not differentiate between types of price-based promotion. If the Scottish implementation of restrictions to off-trade discounting excludes particular types of discounting then the results reported here may overestimate the effectiveness of the policy.

- M4. At lower minimum price thresholds, the combined effect of an off-trade discount ban and a minimum price is close to the individual effects of the two policies added together. At higher minimum price thresholds, the marginal increased effectiveness of an off-trade discount ban is reduced.

### **Changes in levels of health, crime and workplace harm<sup>1</sup>**

- M5. Low minimum price thresholds (e.g. 25p per unit) have little impact at reducing harmful outcomes.
- M6. As the minimum price threshold increases, alcohol-related hospital admissions and deaths are estimated to reduce. For example, a 30p threshold plus discount ban is estimated to reduce annual admissions by 3,200 at full effect, compared to 4,800 and 8,400 for 40p and 50p thresholds, respectively. The majority of health harm reductions are in chronic diseases. This is because much alcohol-attributable health harm occurs in middle/older age groups at risk of developing and potentially dying from chronic disease. Most of the prevented deaths occur in harmful drinkers.
- M7. As the minimum price threshold increases, alcohol-related crimes are estimated to reduce: e.g. -3,100 offences per annum for a 40p threshold (with discount ban) compared to -5,300 offences per annum for a 50p threshold (with discount ban). Crime reductions take place across the spectrum of violent crime, criminal damage and acquisitive crimes.
- M8. Crime-related harms are estimated to reduce proportionately less than health-related harms: e.g. for a 50p minimum price with discount ban, hospital admissions at full effect are estimated to reduce by 13.8% whilst crimes reduce by 3.0%. This occurs because the population sub-groups most associated with alcohol-related crime – younger male drinkers – consume a greater proportion of their alcohol in the on-trade sector when compared to the population average, and therefore are less affected by policies such as minimum pricing which impact more in the off-trade sector.
- M9. As the minimum price threshold increases, absenteeism from work is estimated to reduce: a minimum price of 40p with discount ban is estimated to reduce days absent

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<sup>1</sup> Note that the example policies shown here have been changed from the 2009 report for better consistency with latter sections of the report and figures reported in the media. All examples refer to minimum price policies with an off-trade discount ban (rather than minimum price policies alone).

from work by approximately 30,500 per annum, whereas for 50p the reduction is estimated at 51,200.

- M10. As the minimum price threshold increases, unemployment due to alcohol problems is estimated to reduce (in the model unemployment is a risk factor only for harmful drinkers). For a 40p threshold (with discount ban), 1,200 avoided cases of unemployment are estimated per annum; for 50p the figure is 2,000. Note that the estimated unemployment effects are based on evidence of association studies, rather than detailed prospective analysis of the dynamic effects of employed people becoming unemployed as a consequence of their drinking behaviour, or of unemployed people becoming employed again as a consequence of reductions in alcohol consumption. The estimated effects make no assumption about the direction of these processes and there is no analysis of how the current economic climate might affect these findings.

### **Changes to consumer spending and retailer revenue**

- M11. Consumer spending is estimated to increase under all policies. For example, under a combined 40p minimum price with discount ban policy, overall spending increases by 4.4%.
- M12. Retailer revenue from the sale of alcoholic beverages is estimated to increase under all policies: the model predicts increases in both off-trade and on-trade sectors (excluding duty and VAT). Higher minimum prices lead to greater additional retail revenues; however the model does not provide a breakdown of the revenue across the supply chain. For a 40p minimum price with combined discount ban, total retailer revenue is estimated to increase by £113m per annum.
- M13. Effects on VAT and duty receipts are estimated to be relatively small, due to the counter-balancing nature of the two taxes: duty is applied to the volume of sales (which is reducing overall) but the VAT is applied to the monetary value of sales (which is increasing overall). For a 40p minimum price plus discount ban, total receipts are estimated to reduce by £10m.

### **Valuation of harm reductions**

- M14. As the minimum price threshold increases, the financial value of harm reductions increases<sup>2</sup>: the overall cumulative discounted financial value of harm reduction over ten years is estimated at £824m for a 40p minimum price plus discount ban policy; this valuation nearly doubles for a 50p threshold (£1.4bn). The valuation continues to increase steeply as the threshold is incremented.
- M15. The largest financially valued component of harm reduction is the estimated impact on health-related quality of life: for example, just over half of the total £824m harm reduction in the 40p minimum price plus discount ban scenario is from the financial valuation of health quality adjusted life years (using £50,000 per QALY).
- M16. As the minimum price threshold increases, crime costs are reduced: for example, direct costs of crime reduce by approximately £22m over 10 years for a 40p minimum price plus discount ban compared to £38m for a 50p threshold. Similarly the value of the loss of victim quality of life changes from around £17m to £28m (using £81,000 per QALY).

### **Policy effects on different population sub-groups**

- M17. Those who buy the most alcohol are the most affected in both absolute and relative terms: changes in spending affect mostly harmful drinkers, with hazardous drinkers somewhat affected and spending for moderate drinkers affected very little. For example, for a 40p minimum price in combination with an off-trade discount ban, extra spending per drinker per annum for moderate, hazardous and harmful drinkers is estimated at £10, £55 and £126 respectively (corresponding to an average additional spend per week of £0.19 for moderate drinkers, £1.06 for hazardous drinkers and £2.42 for harmful drinkers).
- M18. For all minimum price scenarios, with or without the presence of an off-trade discount ban, the majority of the health and healthcare benefits come from the harmful drinking group (e.g. 41% of the reduction in hospital admissions estimated for a 40p minimum price plus discount ban policy) even though these represent a small minority (6%) of all drinkers.

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<sup>2</sup> The financial valuation includes direct health and social care cost savings, direct savings to the criminal justice system and victims, a financial attribution to the savings in quality adjusted life years (£50,000 for health-related QALYs and £81,000 for crime-related QALYS), and absence and unemployment savings based on average earnings.

- M19. Reductions in crime are spread more evenly between the three drinker groups than for health-related outcomes. For example, for an off-trade discount ban, the reduction in crime volumes per annum is estimated to comprise 400 from moderate drinkers, 800 from hazardous drinkers and 800 from harmful drinkers.
- M20. The absolute contribution of the three drinker groups to reductions in days of absence is spread evenly across groups, e.g. a 40p minimum price plus off-trade discount ban has an estimated reduction in absenteeism of 9,300 days p.a. for moderate drinkers, 10,500 for hazardous drinkers and 10,300 for harmful drinkers. All reductions in unemployment arise from the harmful drinking group (since only this group is assumed in the model to be at risk of alcohol-attributable unemployment).
- M21. The majority of the estimated financial value of harm reduction comes from the reduction in harms associated with harmful drinkers. Of the £824m harm reduction estimated for a 40p minimum price in combination with a discount ban, just over half (£426m) is from harmful drinkers.

#### **Comparison of previous and updated modelling results**

- M22. Compared to the SHeS 2003, the SHeS 2008 data suggest a slight reduction in mean alcohol consumption at the total population level. This is not the case for each age/sex group, with consumption for those under the age of 25, and especially young women, increasing significantly. At the beverage level, the consumption of beer/cider, wine and RTD decreased; while the consumption of spirits increased, especially for women.
- M23. The market research data available from Nielsen shows price distributions for alcohol which are marginally different from those estimated in our September 2009 report. Average prices paid are slightly higher, and the proportion of alcohol purchased which is bought inexpensively, for example at a price below 40p per unit, is slightly lower than in the September 2009 report.
- M24. The combined effect of the two points above is that the estimated effects of a particular policy are slightly smaller in this updated report both in terms of effects on alcohol consumption (e.g. 5.1% instead of 5.4% consumption reduction for a 40p minimum price combined with an off-trade discount ban) and the various measures of impact on alcohol-related harm.



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## **1 INTRODUCTION**

### **1.1 BACKGROUND**

In 2009, ScHARR developed an adaptation of the Sheffield Alcohol Policy Model for the population of Scotland. This modelling work “Model-based appraisal of alcohol minimum pricing and off-licensed trade discount bans in Scotland – A Scottish adaptation of the Sheffield Alcohol Policy Model version 2. Report to the Scottish Government. September 2009.” was published on 28 September 2009 (Purshouse et al, 2009b). Since this time, new consumption data from the Scottish Health Survey (SHeS) and Scottish Schools Adolescent Lifestyle and Substance Use Survey (SALSUS) has become available for 2008 (the data in the previous model relates to 2003 and 2006 respectively). The Scottish Government has also procured market research data on the 2008/09 price distribution of off-trade alcohol (in terms of ethanol) in Scotland from The Nielsen Company. New mortality data are available for 2008 and recorded crime statistics are also available for 2008/09. The first published results from the Scottish Crime and Justice Survey (SCJS)<sup>3</sup> for 2008/09 are also now available.

The requirement of the new research was to update the previous Scotland model with the new data to provide revised estimates of the effects of current proposals for minimum pricing and prohibition of off-trade discounting.

### **1.2 RESEARCH QUESTIONS ADDRESSED**

The set of policies analysed remains the same as in the original research:

1. What are the likely effects of introducing a minimum unit price on alcohol consumption, sales, health, crime and workplace harms in Scotland?
2. What are the likely effects of introducing a ban on price-based promotions in the off-licensed trade in Scotland?
3. What are the likely effects of introducing a minimum unit price simultaneously with a ban on price-based promotions in the off-licensed trade in Scotland?

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<sup>3</sup> The Scottish Crime and Justice Survey (SCJS) is a large-scale continuous survey measuring adults' experience and perceptions of crime in Scotland. The 2008/09 report presents the results for the first full year of the survey. It represents a major shift in design, methodology and sample size from previous surveys.

## 2 METHODS

This section outlines the changes to the methods from the original Scotland model. These relate to changes in the sources of raw data and subsequent intermediate methodologies to derive *parameters* for the model (see Table 2.1). Note that no *structural* changes have been made to the Scotland model. For details of the original research methodology, please refer to Purshouse et al (2009b).

Changes have arisen in the following areas of modelling:

Model area	Raw data change	Derived model parameters – refresh only	Derived model parameters – change to methods
Prices	✓	✓	✓
Consumption	✓	✓	
Health harms	✓	✓	
Crime harms	✓	✓	
Workplace harms		✓	

**Table 2.1: Summary of modelling changes in this update**

### 2.1 PRICES

In the latest version of the model for England (Purshouse et al, 2009a), the price distributions for beer/cider, wine, spirit and RTD – in both the off-trade and on-trade, were based on English purchasing data from the Expenditure and Food Survey (EFS) adjusted to match, at the total population level, England & Wales sales data from The Nielsen Company and England-only data from CGA Strategy (The Nielsen Company, 2008; CGA Strategy, 2009). In the previous Scottish adaptation of the model, sales data for Scotland was not available to the research team and so the price distributions in the model were based on the English distributions but adjusted, again at the total population level, for the differences between the EFS prices in England and Scotland (see Purshouse et al (2009b) for further details). Note that sales data is generally regarded as more accurate than purchasing data (which is older and based on self-reports), but is limited in that it provides no information on who purchases the alcohol (e.g. in terms of age, sex, or level of consumption).

Now, for the first time, sales data for the off-trade in Scotland has become available to the research team (The Nielsen Company, 2009). Therefore, in the model update, only Scotland-specific data is now used for the off-trade sector.

### 2.1.1 Off-trade price distribution

There are two main stages for incorporating the data into the model: pre-processing and calibration of EFS prices. These stages are described below.

#### 2.1.1.1 Pre-processing

The Nielsen price data is described across a set of 34 *Product* categories (e.g. dark rum, golden rum, etc) in terms of 15 price ranges (defined in terms of £ per unit). Both sales value (in £) and sales volume (in litres of beverage) are provided. For modelling purposes, the distributions must be aggregated to the four beverages of beer/cider, wine, spirit and RTD. The distributions must also be expressed in terms of units. Therefore ABV estimates were requested from Nielsen for each Product category and used to convert the Product sales volumes to units of alcohol. Products are then summed to produce the four categories, as shown in Table 2.2.

Model category	Included Products	ABV estimate
Beer/cider	Lager – non-alcoholic / low-alcohol	0.5%
	Lager – commodity	3.2%
	Lager – standard	4.0%
	Lager – premium	5.0%
	Lager – superstrength	8.0%
	Ale – non-alcoholic / low-alcohol	0.5%
	Ale – commodity	3.2%
	Ale – standard	4.0%
	Ale – premium	5.0%
	Ale – superstrength	8.0%
	Stout – commodity	3.2%
	Stout – standard	4.0%
	Stout – premium	5.0%
	Stout – superstrength	8.0%
	Cider – white / strong	7.5%
Cider – other cider	4.5%	
Perry	7.5%	
Wine	Fortified wine	17.0%
	Light wine	12.5%
	Sparkling wine	12.5%
	Champagne	12.5%
Spirit	Vodka	37.5%
	Blended whisky	40.0%
	Gin	38.0%

	Cream liqueurs	20.0%
	French brandy	37.5%
	White rum	37.5%
	Imported whisky	40.0%
	Liqueurs	35.0%
	Malt whisky	40.0%
	Dark rum	40.0%
	Cognac	40.0%
	Golden rum	35.0%
RTD	RTD	4.5%

**Table 2.2: Matching of Nielsen Product categories to model categories**

Note that since a minimum price policy is a non-linear operator on the price distribution (i.e. some prices change, whilst others do not), the ‘price per unit’ estimates that describe the distribution need to be accurate to avoid bias in the results. Ideally this would involve converting natural units of beverage to units of alcohol at the stock-keeping unit (SKU) level. However this was not achieved in the Nielsen data and so applying ABV estimates at the level of Nielsen Product categories is the next best option (the same approach was adopted for the England model).

#### 2.1.1.2 Calibration of prices

As in all previous models (Brennan et al, 2008; Purshouse et al, 2009a; Purshouse et al, 2009b) the EFS is used as the basis of the price distribution because it provides information on purchasing preferences for different population subgroups (e.g. 18-to-24 year old male hazardous drinkers, or 55-to-64 year old female moderate drinkers). The same calibration method is used as in Purshouse et al (2009a): the population-level EFS cumulative price distribution is linearly interpolated so that it matches the known price points available from Nielsen (14 in this case). The maximum and minimum prices in the distribution remain unchanged since Nielsen does not provide these values. In the model, the distribution is then decomposed into its constituent population subgroups.

Since the Scottish EFS sample size is small in relation to the overall EFS (around one tenth of the English sample size), issues with ‘small samples’ occur, in which the number of data to describe the price distribution of some subgroups is insufficient. Using the previous model breakdown, the sample size is below 5 for 126 out of 384 subgroups (by sex, age group and drink type). In order to increase the sample size, the original eight age groups are merged into three, which are 16-34 years (previously 16-17, 18-24 and 25-34 years) 35-54 years (previously 35-44 and 45-54 years) and 55+ years (previously 55-64, 65-74 and 75+ years). Note that the merging of age-groups is only applied to off-trade price distributions and does not affect on-trade price distributions and alcohol consumption.

### 2.1.1.3 Comparison of estimated distributions

The off-trade price distributions used in the previous and the new model, and the distributions based on the raw EFS Scotland data are shown in Figure 2.1.

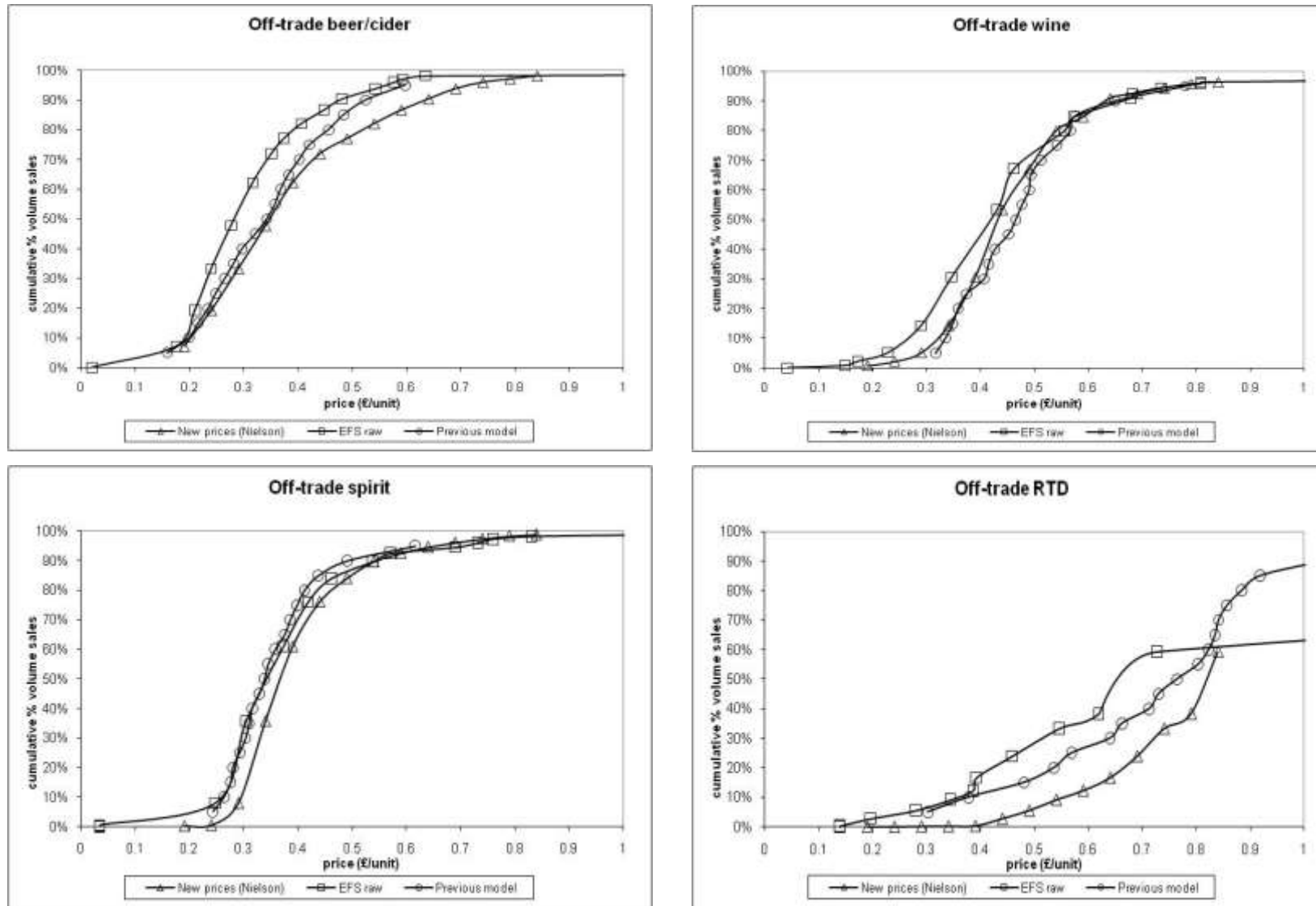


Figure 2.1: Comparison of Scotland price distributions for off-trade beverages



### 2.1.2 On-trade price distribution

No market research data has been made available for the distribution of on-trade prices. Therefore the four distributions from the previous model are used, but adjusted to 2009 terms using the high-level Nielsen data for Scotland shown in Table 2.3 (Scottish Government, 2010). The Nielsen data is preferred to ONS price adjustors in this case because the full disaggregation to modelled categories is available (note that the ONS figures are quite similar).

Beverage type	Mean 2008 price (£ per unit)	Mean 2009 price (£ per unit)	Adjustment factor
Beer/cider	1.09	1.13	+3.74%
Wine	1.84	1.91	+3.70%
Spirit	1.48	1.52	+2.57%
RTD	2.16	2.25	+4.01%

**Table 2.3: On-trade price adjustment factors**

### 2.1.3 Off-trade price-based promotion

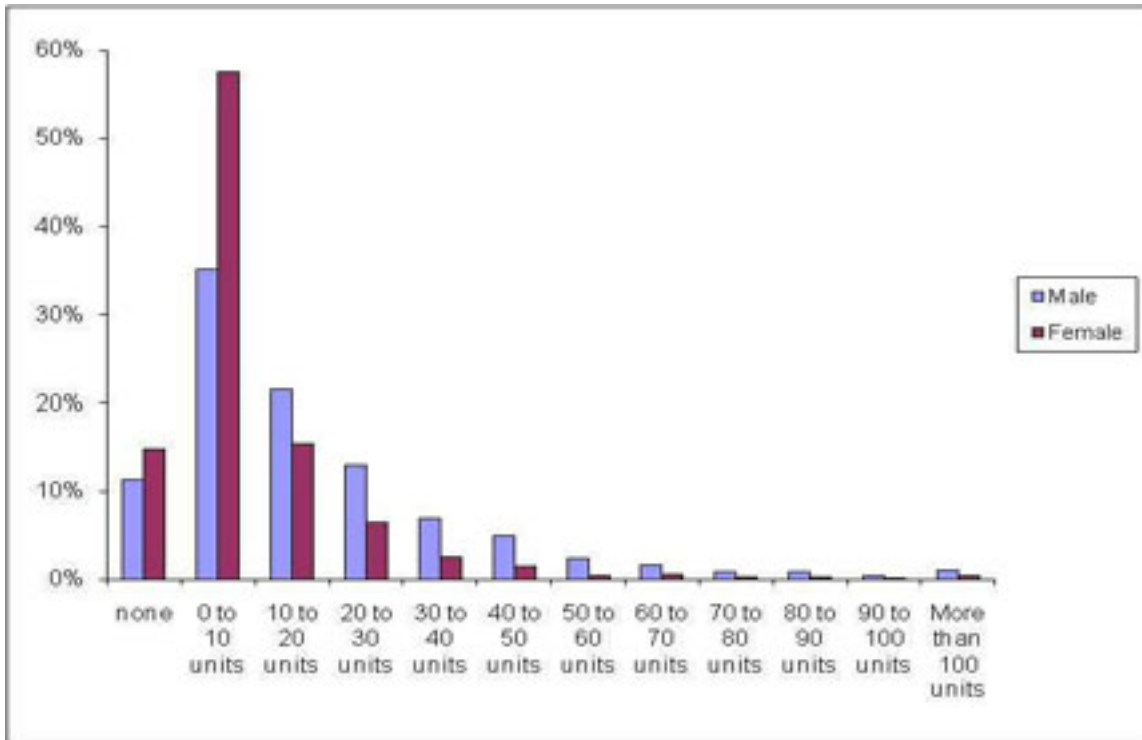
No market research data has been made available for the distribution of price-based promotions in supermarkets and off-licences. Therefore the same assumption is made as in the previous model: that the Scottish market is characterised by the same *pattern* of off-trade discounting as the English market, in terms of the cumulative price distribution, using Nielsen Grocery Multiples data for England & Wales. Since the Scottish off-trade price distribution has been updated, this requires a new mapping to the 10 price ranges available for the England & Wales data. The mapping, for each of beer/cider, wine, spirit and RTD, is shown in Appendix 1.

## 2.2 CONSUMPTION

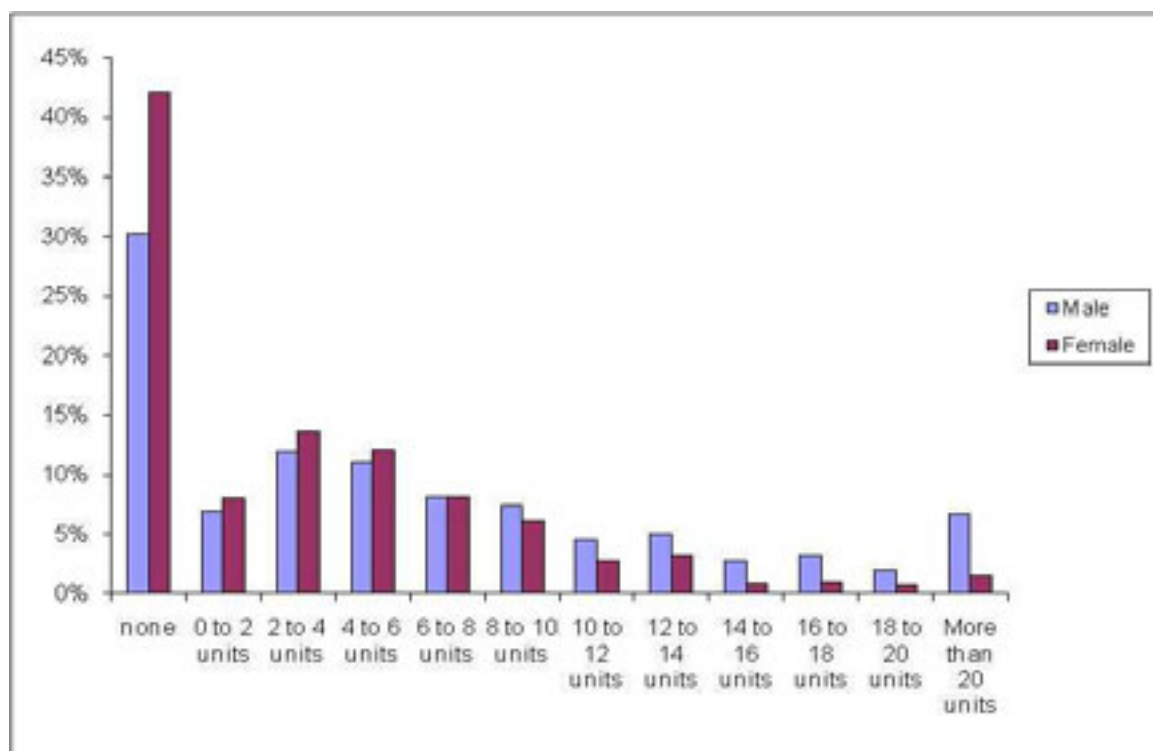
Two population surveys provide baseline levels of consumption for the model – the Scottish Health Survey (SHeS) for subgroups aged 16 and over, and the Scottish Schools Adolescent Lifestyle and Substance Use Survey (SALSUS) for the 11 to 15 year old subgroups. The previous model used data from 2003 for SHeS and 2006 for SALSUS (for both, applying the latest ONS units conversion assumptions). However fresh data for 2008 is now available and has been used as the new baseline in the model.

### 2.2.1 Scottish Health Survey

Figure 2.2 and 2.3 present the distributions of weekly and peak alcohol consumption for males and females in Scotland based on the latest consumption data from SHeS 2008. The 2008 age and gender-specific distributions of alcohol consumption for adults (18+ years) in Scotland are presented in Appendix 2.



**Figure 2.2: Distribution of the mean weekly intake among individuals aged 16 years old and over (SHeS 2008)**



**Figure 2.3: Distribution of peak intake (maximum units drunk heaviest drinking day) among individuals aged 16 years old and over (SHeS 2008)**

Figures 2.4 and 2.5 compare the average consumption in SHeS 2003 and 2008 by beverage type for men and women, respectively. Figures 2.6 and 2.7 compare the average consumption in SHeS 2003 and 2008 by age group for men and women, respectively.

Compared to the SHeS 2003, the SHeS 2008 data show a general reduction of alcohol consumption at the population level.<sup>4</sup> At the beverage level, the consumption of beer/cider, wine and RTD decreased; while the consumption of spirits increased, especially for women. Despite the overall reduction of consumption at the population level, the consumption of those under the age of 25, and especially young women, has increased. This is important because the 18-24 year old age group represents the age group with the heaviest alcohol consumption.

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<sup>4</sup> Market research Nielsen data shows a stable consumption pattern between 2005 and 2009 at the population level.

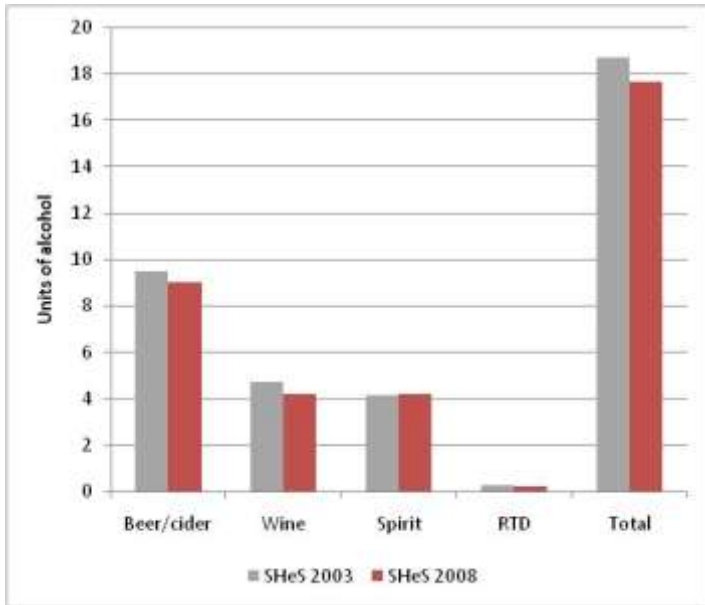


Figure 2.4: Comparison of average consumption over 4 beverage types for male (16+ years) between SHeS 2003 and 2008

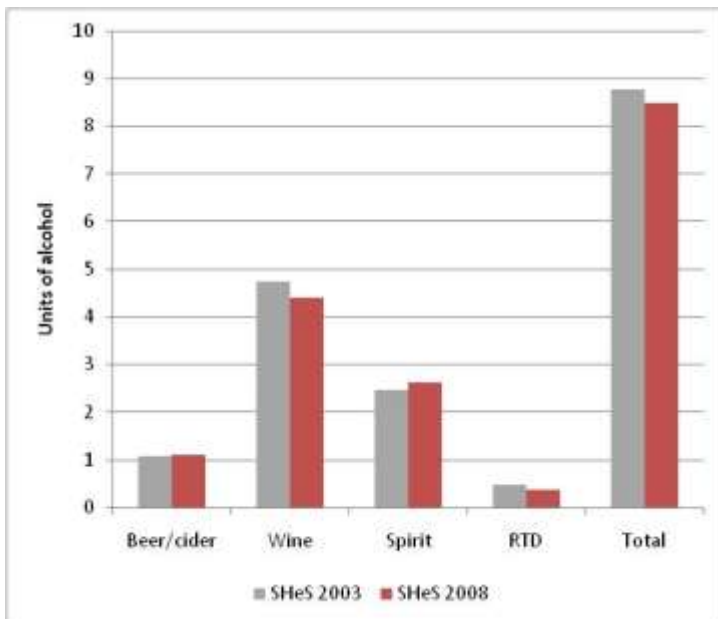


Figure 2.5: Comparison of average consumption over four beverage types for female (16+ years) between SHeS 2003 and 2008

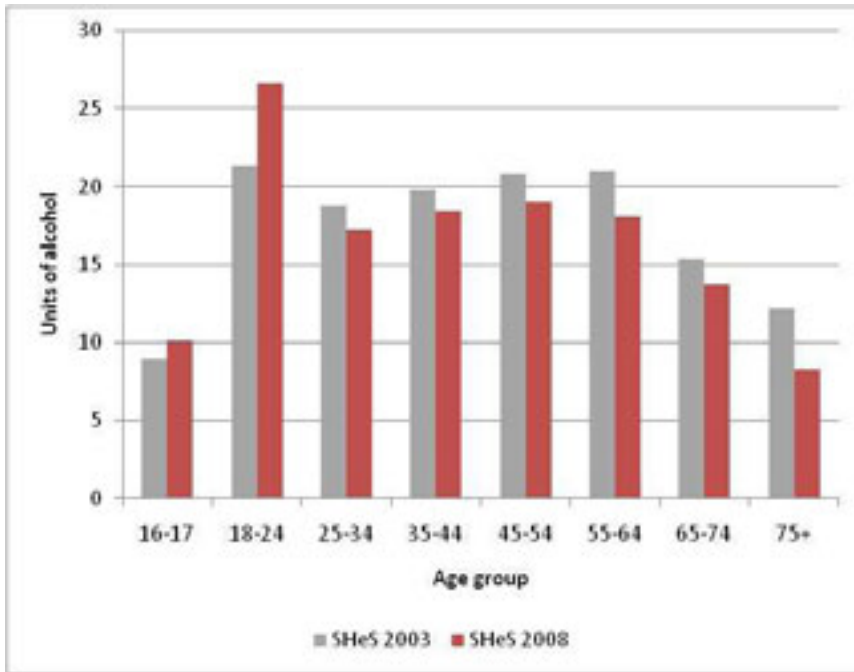


Figure 2.6: Comparison of average consumption by age group for men (16+ years) between SHeS 2003 and 2008

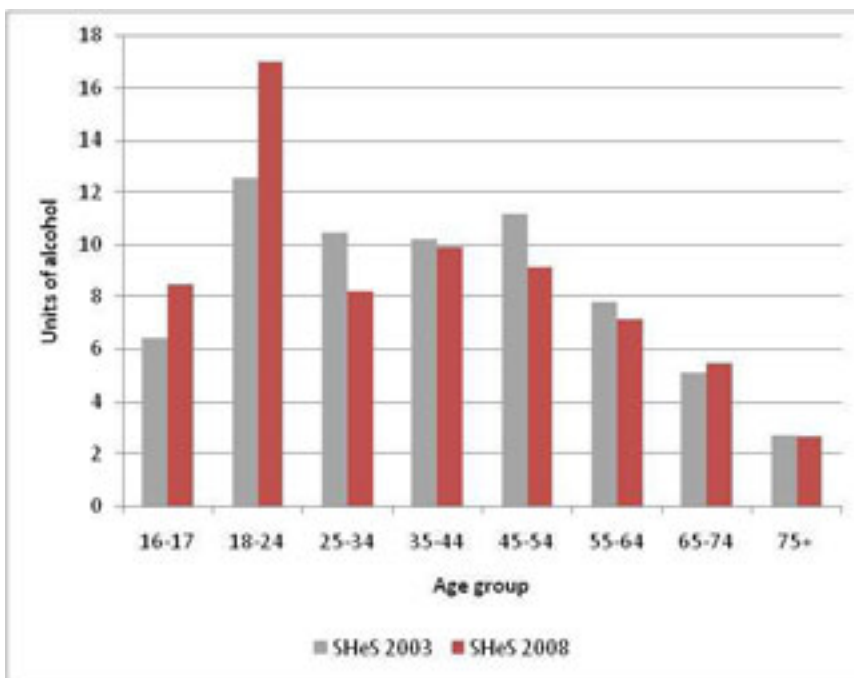


Figure 2.7: Comparison of average consumption by age groups for women (16+ years) between SHeS 2003 and 2008

### 2.2.2 SALSUS

Figures 2.8 and 2.9 compare the average consumption between SALSUS 2006 and 2008 by beverage type for male and female pupils, respectively. These show that, for both genders, average consumption has dropped markedly across beverage types.

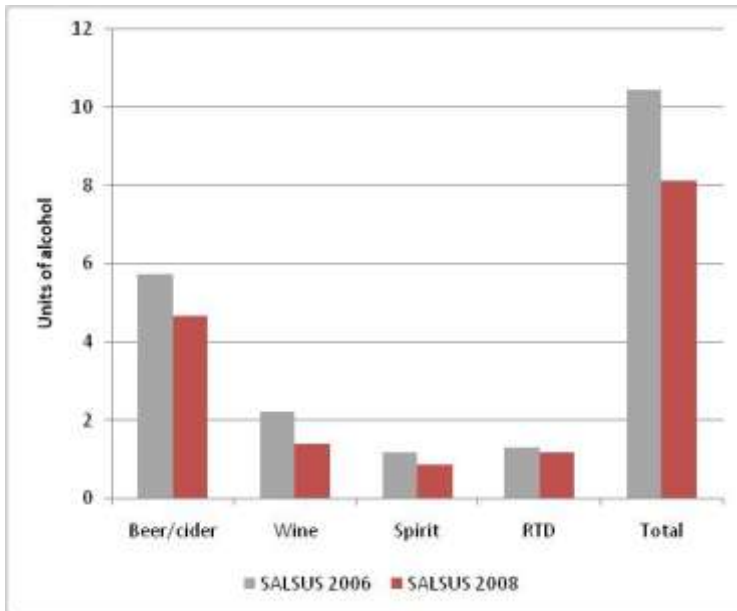


Figure 2.8: Comparison of average consumption by beverage type for male pupils (aged 11-15 years) between SALSUS 2006 and 2008

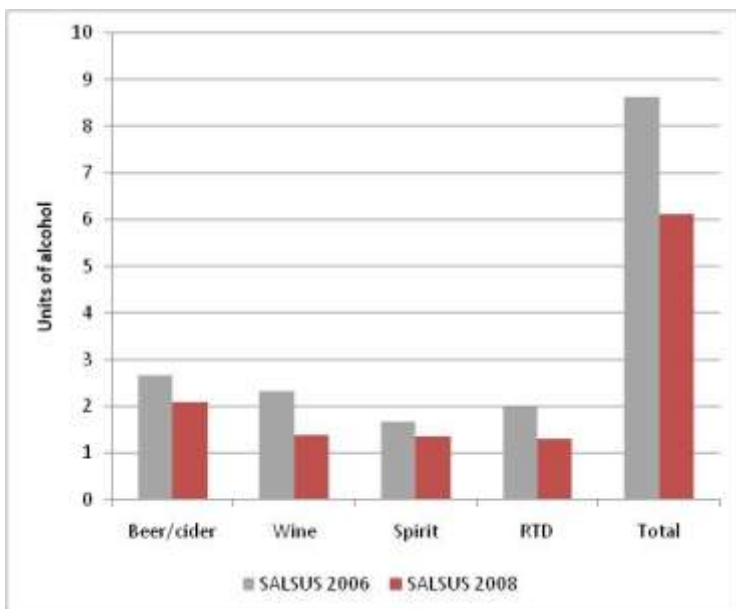


Figure 2.9: Comparison of average consumption by beverage type for female pupils (aged 11-15 years) between SALSUS 2006 and 2008

### **2.2.3 Regression model linking mean consumption to peak consumption**

Since the price elasticities used in the model relate a change in price to a change in mean consumption, further modelling is required to estimate the effects on peak daily consumption (the proxy measure for heavy episodic drinking). As described in Purshouse et al (2009b), this is achieved by estimating an average relationship between relative change in mean consumption and relative change in peak consumption at subgroup level. The same methodology is applied in the new model, but using the SHeS 2008 consumption data. The resulting model parameters are shown in Appendix 3.

## **2.3 HEALTH HARMS**

Mortality rates for 2008 are now available for the 47 conditions used in the model, and have been applied as the new baseline. Risk functions for all acute and wholly attributable chronic conditions were re-estimated. For partially attributable chronic conditions, the risk functions from the literature continue to be used. The parameter estimates are provided in Appendix 4.

Note that fresh morbidity data was not available when this study was carried out and new estimates of alcohol-attributable fractions (AAFs) were already available for the 2009 model. Therefore assumptions from the previous model are re-used.

## **2.4 CRIME HARMS**

The availability of 2008/09 crime data for Scotland provides an opportunity to revise the modelling assumptions around the baseline volumes of alcohol-related crime:

1. Baseline recorded crime volumes – In the previous model, Scottish crime categories were matched with English categories (Purshouse et al, 2009b). For consistency, the same matching is used in the new model, but the crime volumes were adjusted using the scaling factors derived from the latest (2008-09) and the previous (2007-08) police recorded crime volumes.
2. Multipliers – In the previous model, the multipliers used to uplift the recorded crime volumes to actual crime volumes were based on the British Crime Survey (BCS), due to the small sample size and large confidence intervals of the multipliers derived from the Scottish Crime and Victimization Survey (SCVS) 2006. However, the sample size has increased significantly in the latest SCJS (2008/09) and the confidence intervals on the estimated multipliers are much reduced. Therefore, the multipliers in the new model are estimated from the latest SCJS whenever possible. Some assumptions are necessary where multipliers are not available for crime categories in the model: ‘serious assault’ and ‘minor assault’ use the ‘assault’ multiplier; both ‘housebreaking’ categories use the ‘housebreaking’ multiplier; ‘fire-raising’ uses the ‘vandalism’ multiplier; ‘other theft’ uses a weighted multiplier based on ‘other

household theft’, ‘theft from the person’ and ‘other personal theft’; ‘shoplifting’ and ‘total sexual offences’ continue to use the multiplier from the England model because relevant multipliers are not available from the SCJS.

The baseline police recorded crime volumes and multipliers used in the new and the comparison with the previous model are shown in Table 2.4. Overall, using the new data results in lower baseline crime volumes (-6.5%). The baseline estimate for two large contributors to crime volume, shoplifting and other theft, increased by 10% and 48% respectively, the estimates for two other high-volume crimes, such as minor assault and vandalism, have decreased by 46% and 70%. Such shifts lead to changes in estimated savings in relation to criminal justice system and victimisation costs.

Based on the updated baseline total crime volumes, Appendix 5 presents the breakdown of total estimated offences by age and gender in Scotland. The updated relative risk functions are provided in Appendix 6.



Crime category	Police recorded crime volumes			Crime multipliers		Total crime volumes		
	Previous model	New model	Difference (%)	Previous model	New model	Previous model	New model	Difference (%)
<b>Serious assault, other non-sexual crimes of violence</b>	6,398	6,167	-3.6%	1.8	2.3	11,516	14,343	24.5%
<b>Robbery</b>	3,064	2,963	-3.3%	3.7	2.1	11,337	6,173	-45.5%
<b>Total sexual offences</b>	6,552	6,331	-3.4%	5.2	5.2	34,070	32,921	-3.4%
<b>Housebreaking - Domestic dwelling</b>	12,437	12,133	-2.4%	2.2	1.6	27,361	18,958	-30.7%
<b>Housebreaking - Domestic non-dwelling &amp; other</b>	13,006	13,363	2.7%	2.1	1.6	27,313	20,880	-23.6%
<b>Theft from a motor vehicle</b>	6,727	6,034	-10.3%	2.8	2.6	18,836	15,471	-17.9%
<b>Theft of a motor vehicle</b>	12,105	11,551	-4.6%	1.2	1.1	14,526	12,555	-13.6%
<b>Shoplifting</b>	29,186	32,048	9.8%	100.0	100.0	2,918,600	3,204,800	9.8%
<b>Other theft</b>	57,918	58,173	0.4%	2.7	4.0	156,379	232,693	48.8%
<b>Fire-raising</b>	4,616	4,632	0.3%	4.3	2.5	19,849	11,580	-41.7%
<b>Vandalism etc</b>	109,855	101,512	-7.6%	4.3	2.5	472,377	253,781	-46.3%
<b>Minor assault</b>	72,770	73,371	0.8%	7.7	2.3	560,329	170,630	-69.5%
<b>Total</b>	<b>334,634</b>	<b>328,279</b>	<b>-1.9%</b>			<b>4,272,492</b>	<b>3,994,785</b>	<b>-6.5%</b>

**Table 2.4: Baseline police recorded crime volumes and multipliers in the new model and the comparison with the previous model**

## 2.5 WORKPLACE HARMS

New raw data has not been extracted for absenteeism and employment. The changes here relate to the re-estimation of risk functions for these outcomes as a result of changes to the estimates of baseline mean and peak consumption levels. The refreshed parameters for the risk functions are shown in Appendix 7.

## 2.6 SENSITIVITY ANALYSIS

The original analysis of pricing policies included a set of sensitivity analyses that attempted to account for the uncertainty in the representation of both current alcohol purchasing and consumption in Scotland and how price changes might influence consumer behaviour. Key uncertainties around the relationship between alcohol consumption and the population-level risk of coronary heart disease, and between alcohol consumption and population-level risk of crime were also explored.

In this study, all previous sensitivity analyses are rerun using updated model inputs. The results are reported in Section 3.2.

### 2.6.1 Preferences for off-trade consumption

The split of consumption between off-trade and on-trade for each subgroup in the model is based on purchasing data from the EFS. Alternative evidence for Scotland on the split – from The Nielsen Company – was originally made available to the research team for the year 2007/08 and new data for 2008/09 has also now been made available. An updated comparison with the EFS data is shown in Table 2.5.

Beverage type	Scotland preference for off-trade alcohol (via EFS) – new model	Scotland preference for off-trade alcohol (via Nielsen) – previous model	Scotland preference for off-trade alcohol (via Nielsen) – new model
Beer/cider	49.2%	45.6%	48.5%
Wine	93.2%	81.6%	85.9%
Spirit	88.1%	72.6%	76.0%
RTD	50.4%	60.3%	67.2%
<b>Total</b>	<b>71.3%</b>	<b>63.3%</b>	<b>67.1%</b>

**Table 2.5: Comparison of preferences for off-trade alcohol between EFS and Nielsen data sources**

The reason for the discrepancy between EFS and Nielsen off-trade preferences is not fully understood. The Nielsen data is based on a combination of census and survey, whilst the EFS data is based on a 14-day purchasing diary. One hypothesis is that the modelling assumption that two weeks' purchasing in the EFS is equivalent to two weeks' consumption

is not always appropriate for the off-trade sector; a second hypothesis could be that off-trade purchasing is recorded more accurately (e.g. via till receipts) than on-trade consumption (e.g. which is subject to memory recall). It is recognised that recall methods tend to underestimate actual consumption levels.

The impact of using the alternative Nielsen evidence has been tested by proportionately adjusting all subgroup off-trade preferences to reflect the alternative overall preferences shown in Table 2.5.

### 3 RESULTS

This section contains updated model results for minimum price policies ranging from 25p to 70p per unit, an off-trade discount ban in isolation, and an off-trade discount ban in tandem with minimum price policies. Results are reported for Scotland as a whole and separately for moderate, hazardous and harmful drinkers. Note that moderate drinkers are defined as drinkers aged 18 years and over (reflecting the existing statutory minimum legal purchase age for alcohol), whilst other groups include persons aged 11 and over.

#### 3.1 ESTIMATED IMPACTS

Consumption and harm impacts across all policies are shown for the total population of Scotland in Table 3.7 to Table 3.10. As in our previous report, the results of three example policies (40p minimum price, off-trade discount ban and the combination of the two policies) are presented in detail.

##### 3.1.1 Example policy analysis: 40p minimum price (scenario 4)

Table 3.1 shows the results for consumption changes, consumer spending and sales for a 40p minimum price policy. Table 3.2 shows the effects of the policy scenario on health, crime and workplace harms, as well as financial valuation.

**Overall weekly consumption changes by -2.3%.** Consumption is estimated to reduce by 18.0 units per drinker per year. **Consumption changes are greatest for harmful drinkers (-180.3 units per year). Moderate drinkers are affected in a small way in absolute terms (-2.9 units per year).**

**Effects on health are estimated to be substantial** with alcohol-attributable deaths estimated to reduce by approximately 26 within the first year of implementation and a full effect after 10 years of around 119. Deaths are distributed differentially across the groups, with approximately 6 saved amongst moderate drinkers, 51 amongst hazardous drinkers and 62 amongst harmful drinkers. Alcohol-attributable morbidity also decreases with an estimated reduction of 410 acute and 90 chronic illnesses in year 1. Hospital admissions are estimated to reduce by around 640 in year 1, and a full effect after 10 years of 2,230 avoided admissions per annum. Healthcare service costs are estimated to reduce by £2.8m in year 1, with a QALY gain valued at £7.3m.

**Crime is estimated to fall by 1,400 offences overall.** Almost 75% of this annual reduction is amongst harmful drinkers, with approximately 20% amongst hazardous drinkers. **The harm avoided in terms of victim quality of life is valued at £0.7m per year. Direct costs of crime are estimated to reduce by £1.2m per year.**

**Workplace harms are estimated to be reduced by 730 fewer unemployed people and 11,800 fewer sick days per year.**

**The societal value of these harm reductions is estimated at £398m** in total over the 10 year period modelled. In the first year, the estimated societal value of the harm reductions is as follows: NHS cost reductions (£2.8m), value of QALYs saved (£7.3m), crime costs saved (£1.2m), value of crime QALYs saved (£0.7m) and employment related harms avoided (£17.4m).

The societal value of harm reductions is distributed differentially across the groups, with hazardous drinkers accounting for £89m of the total value, harmful drinkers £254m and moderate drinkers £52m.

**Absolute reductions in consumption are estimated to be largest in off-trade beer/cider and off-trade spirit. There is a substantial absolute increase in consumption of on-trade beer/cider.**

**The cost impact of the policy on consumers varies substantially between drinker types:**

- Harmful drinkers: £85 per drinker per annum
- Hazardous drinkers: £37 per drinker per annum
- Moderate drinkers: £5 per drinker per annum.

**An overall increased spend by consumers is estimated of £68m per annum, split roughly 63:37 between off-trade and on-trade sectors.**

**Overall revenue to the Treasury (from duty and VAT receipts) changes by -£2.4m.**

<b>Males and Females</b>							
<b>Consumption Patterns</b>			<b>Scotland 11 +</b>	<b>Moderate 18 +</b>	<b>Hazardous 11 +</b>	<b>Harmful 11 +</b>	
<b>Baseline</b>							
Mean consumption per person per week n people			12.52	5.01	27.42	71.84	
			4,527,300	3,062,432	848,118	240,012	
Mean consumption per drinker per week n drinkers			14.96	6.06	27.42	71.84	
			3,789,079	2,535,025	848,118	240,012	
% binge (>8 males, >6 females)			21.6%	12.1%	50.4%	70.0%	
Mean scale of binge if binge occurs (units)			14.5	12.3	14.5	20.7	
Volume sales (units per drinker per year)	Off-trade	Beer	114.6	27.0	198.9	786.3	
		Wine	227.4	95.5	451.1	953.5	
		Spirit	151.5	48.2	267.3	915.1	
		RTD	10.4	2.2	11.4	84.8	
	On-trade	Beer	184.5	83.6	355.8	743.7	
		Wine	29.1	24.6	43.4	43.2	
		Spirit	49.8	31.2	80.3	159.3	
		RTD	12.6	3.9	21.7	60.1	
	<b>Total</b>			779.9	316.2	1,429.8	3,746.0
	Value sales (£ per drinker per year)	Off-trade	Beer	£ 45	£ 13	£ 80	£ 279
Wine			£ 112	£ 48	£ 217	£ 475	
Spirit			£ 64	£ 21	£ 114	£ 367	
RTD			£ 8	£ 2	£ 9	£ 59	
On-trade		Beer	£ 219	£ 105	£ 414	£ 855	
		Wine	£ 56	£ 50	£ 79	£ 79	
		Spirit	£ 94	£ 61	£ 148	£ 282	
		RTD	£ 22	£ 7	£ 38	£ 105	
<b>Total</b>			£ 620	£ 308	£ 1,098	£ 2,501	
<b>Absolute change</b>							
Mean consumption per person per week			-0.29	-0.05	-0.39	-3.46	
Mean consumption per drinker per week			-0.35	-0.06	-0.39	-3.46	
% change in mean consumption			-2.3%	-0.9%	-1.4%	-4.8%	
Change in volume of consumption (units per drinker per year)	Off-trade	Beer	-16.44	-1.82	-26.53	-146.23	
		Wine	1.21	-0.82	5.76	7.97	
		Spirit	-9.45	-2.34	-14.58	-71.55	
		RTD	0.02	0.01	0.01	0.08	
	On-trade	Beer	6.16	1.81	14.14	27.79	
		Wine	0.05	0.01	0.17	0.17	
		Spirit	0.37	0.22	0.61	1.28	
		RTD	0.05	0.02	0.08	0.18	
<b>Total</b>			-18.02	-2.93	-20.34	-180.31	
Change in £ value of purchases (sales) (£ per drinker per year)	Off-trade	Beer	£1.55	£0.52	£2.64	£8.83	
		Wine	£5.07	£1.30	£11.52	£25.42	
		Spirit	£2.11	£0.82	£3.22	£12.77	
		RTD	£0.02	£0.01	£0.02	£0.07	
	On-trade	Beer	£7.74	£2.35	£17.56	£34.77	
		Wine	£0.11	£0.01	£0.35	£0.37	
		Spirit	£0.66	£0.41	£1.06	£2.08	
		RTD	£0.09	£0.03	£0.15	£0.33	
<b>Total</b>			£17.34	£5.46	£36.53	£84.64	
Effect of policy on "pocket" if drinkers did not change consumption (£ per drinker per year)	Off-trade	Beer	£8.29	£1.25	£13.59	£68.80	
		Wine	£3.70	£1.48	£7.14	£17.02	
		Spirit	£6.07	£1.82	£9.33	£42.67	
		RTD	£0.00	£0.00	£0.00	£0.00	
	On-trade	Beer	£0.04	£0.00	£0.03	£0.51	
		Wine	£0.00	£0.00	£0.00	£0.00	
		Spirit	£0.00	£0.00	£0.02	£0.00	
		RTD	£0.00	£0.00	£0.00	£0.00	
<b>Total</b>			£18.11	£4.55	£30.11	£129.00	
Total change in retailer received £m (after VAT+Duty)	Off-trade	£m 43.1	£m 7.9	£m 17.4	£m 17.4		
	On-trade	£m 25.0	£m 5.5	£m 12.4	£m 6.9		
	<b>Total</b>	£m 68.1	£m 13.4	£m 29.9	£m 24.3		
Total Change in VAT & Duty Received	Off-trade	-£m 10.0	-£m 1.2	-£m 2.7	-£m 6.1		
	On-trade	£m 7.6	£m 1.6	£m 3.8	£m 2.1		
	<b>Total</b>	-£m 2.4	£m 0.5	£m 1.1	-£m 4.0		
% change in spend / sales	Off-trade	+3.8%	+3.1%	+4.1%	+4.0%		
	On-trade	+2.2%	+1.3%	+2.8%	+2.8%		
	<b>Total</b>	+2.8%	+1.8%	+3.3%	+3.4%		
Total Change Pop'n Spend (Sales)	Off-trade	£m 33.1	£m 6.7	£m 14.8	£m 11.3		
	On-trade	£m 32.5	£m 7.1	£m 16.2	£m 9.0		
	<b>Total</b>	£m 65.7	£m 13.8	£m 31.0	£m 20.3		

Table 3.1: Consumption effects: Detailed results table for 40p minimum price (scenario 4)

Males and Females Harm Reductions						
Absolute change			Scotland	Moderate	Hazardous	Harmful
			11 +	18 +	11 +	11 +
Health Changes in Year 1	Deaths	Chronic	-10	0	-4	-6
		Acute	-16	-5	-6	-5
		Total	-26	-5	-10	-10
	Illnesses	Chronic	-88	-9	-29	-50
		Acute	-414	-128	-137	-144
		Total	-501	-138	-166	-193
	Admissions	Chronic	-169	-17	-53	-99
		Acute	-473	-140	-153	-173
		Total	-643	-158	-206	-273
	QALYs per annum		-146	-38	-47	-59
Value of 'saved' QALYs		-7,323,321	-1,905,341	-2,370,488	-2,960,188	
Cost (£)	Chronic	-503,216	-61,444	-166,429	-274,106	
	Acute	-2,325,906	-701,322	-767,711	-828,307	
	Total (£)	-2,829,123	-762,766	-934,140	-1,102,413	
Health Changes per annum in Year 10	Deaths p.a.	Chronic	-101	-1	-43	-57
		Acute	-18	-6	-8	-4
		Total	-119	-6	-51	-62
	Illnesses p.a.	Chronic	-893	-88	-295	-509
		Acute	-449	-138	-168	-138
		Total	-1,342	-226	-463	-648
	Admissions p.a.	Chronic	-1,723	-158	-543	-1,021
		Acute	-507	-151	-185	-166
		Total	-2,230	-308	-728	-1,187
	QALYs per annum		-800	-183	-287	-329
Cost (£)	Chronic	-5,070,986	-589,603	-1,713,419	-2,763,495	
	Acute	-2,519,445	-756,919	-938,990	-796,336	
	Total (£)	-7,590,431	-1,346,522	-2,652,409	-3,559,831	
Cumulative Health Change over 10 yrs	Discounted QALYs		-3,859	-849	-1,365	-1,628
	Discounted Costs		-43,489,461	-8,927,166	-15,033,564	-19,271,005
	Value of Discounted QALYs		-192,964,806	-42,444,071	-68,252,343	-81,402,531
	Total Value of Health Changes		-236,454,268	-51,371,237	-83,285,907	-100,673,537
Crime Changes per annum	Volume	Violent	-181	9	-37	-139
		Damage	-506	25	-104	-381
		Theft/Oth	-674	20	-149	-494
		Total	-1,361	55	-290	-1,014
	Cost (£)	Violent	-527,121	23,392	-109,148	-400,801
		Damage	-438,684	22,056	-90,521	-330,550
		Theft/Oth	-195,049	-1,642	-44,751	-135,091
		Total (£)	-1,160,854	43,806	-244,421	-866,442
	QALYs	Violent	-9	0	-2	-7
		Damage	0	0	0	0
Theft/Oth		0	0	0	0	
Total		-9	0	-2	-7	
Value of 'saved' QALYs		-722,540	35,086	-145,115	-559,008	
Employment Changes per annum	Volume	Absence days	-11,761	-2,333	-2,926	-6,318
		Unempl people	-727	0	0	-727
	Cost (£)	Absence	-997,617	-216,914	-247,316	-528,039
		Unempl	-16,420,093	0	0	-16,420,093
Total (£)		-17,417,709	-216,914	-247,316	-16,948,132	
Summary Financial Value Harm Reduction Year 1	Health Costs (£)		-2,829,123	-762,766	-934,140	-1,102,413
	Crime Costs (£)		-1,160,854	43,806	-244,421	-866,442
	Employment Costs (£)		-17,417,709	-216,914	-247,316	-16,948,132
	Total Direct Costs (£)		-21,407,687	-935,873	-1,425,877	-18,916,987
	Health QALYs (£)		-7,323,321	-1,905,341	-2,370,488	-2,960,188
	Crime QALYs (£)		-722,540	35,086	-145,115	-559,008
	Total Societal Value (£)		-29,453,548	-2,806,128	-3,941,480	-22,436,183
Cumul 10 year Summary Financial Value Harm Reduction	Health Costs (£)		-43,489,461	-8,927,166	-15,033,564	-19,271,005
	Crime Costs (£)		-9,654,369	364,321	-2,032,750	-7,205,853
	Employment Costs (£)		-144,856,215	-1,803,985	-2,056,830	-140,950,921
	Total Direct Costs (£)		-198,000,045	-10,366,830	-19,123,145	-167,427,780
	Health QALYs (£)		-192,964,806	-42,444,071	-68,252,343	-81,402,531
	Crime QALYs (£)		-6,663,399	323,568	-1,338,275	-5,155,278
	Total Societal Value (£)		-397,628,250	-52,487,334	-88,713,763	-253,985,589

Table 3.2: Harm effects: Detailed results table for 40p minimum price (scenario 4)

### 3.1.2 Example policy analysis: Off-trade discount ban (scenario 11)

Table 3.3 shows the results for consumption changes, consumer spending and sales for the total off-trade discount ban policy. Table 3.4 shows the effects of the policy scenario on health, crime and workplace harms, as well as financial valuation.

**Overall weekly consumption changes by -3.1%.** Consumption is estimated to reduce by 24.4 units per drinker per year. **Consumption changes are greatest for harmful drinkers (-145.5 units per year). Moderate drinkers are affected in a small way in absolute terms (-6.5 units per year).**

**Effects on health are estimated to be substantial** with alcohol-attributable deaths estimated to reduce by approximately 37 within the first year of implementation and a full effect after 10 years of around 162. Deaths are distributed differentially across the groups, with approximately 12 saved amongst moderate drinkers, 96 amongst hazardous drinkers and 54 amongst harmful drinkers. Alcohol-attributable morbidity also decreases with an estimated reduction of 630 acute and 110 chronic illnesses in year 1. Hospital admissions are estimated to reduce by around 940 in year 1, and a full effect after 10 years of 2,980 avoided admissions per annum. Healthcare service costs are estimated to reduce by £4.2m in year 1, with a QALY gain valued at £11.1m.

**Crime is estimated to fall by 2,000 offences overall.** Almost 40% of this annual reduction is amongst harmful drinkers, with approximately another 40% amongst hazardous drinkers. **The harm avoided in terms of victim quality of life is valued at £1.3m per year. Direct costs of crime are estimated to reduce by £1.8m per year.**

**Workplace harms are estimated to be reduced by 620 fewer unemployed people and 20,500 fewer sick days per year.**

**The societal value of these harm reductions is estimated at £492m** in total over the 10 year period modelled. In the first year, the estimated societal value of the harm reductions is as follows: NHS cost reductions (£4.2m), value of QALYs saved (£11.1m), crime costs saved (£1.8m), value of crime QALYs saved (£1.3m) and employment related harms avoided (£15.7m).

The societal value of harm reductions is distributed differentially across the groups, with hazardous drinkers accounting for £172m of the total value, harmful drinkers £215m and moderate drinkers £101m.



**Absolute reductions in consumption are estimated to be largest in off-trade wine and off-trade beer/cider, with a notable reduction also occurring in off-trade spirit. There is a substantial absolute increase in consumption of on-trade beer/cider.**

**The cost impact of the policy on consumers varies substantially between drinker types:**

- Harmful drinkers: £66 per drinker per annum
- Hazardous drinkers: £27 per drinker per annum
- Moderate drinkers: £5 per drinker per annum.

**An overall increased spend by consumers is estimated of £60m per annum, split roughly 81:19 between off-trade and on-trade sectors.**

**Overall revenue to the Treasury (from duty and VAT receipts) changes by -£7m.**

<b>Males and Females</b>									
<b>Consumption Patterns</b>			<b>Scotland 11 +</b>	<b>Moderate 18 +</b>	<b>Hazardous 11 +</b>	<b>Harmful 11 +</b>			
<b>Baseline</b>									
Mean consumption per person per week n people			12.52	5.01	27.42	71.84			
			4,527,300	3,062,432	848,118	240,012			
Mean consumption per drinker per week n drinkers			14.96	6.06	27.42	71.84			
			3,789,079	2,535,025	848,118	240,012			
% binge (>8 males, >6 females)			21.6%	12.1%	50.4%	70.0%			
Mean scale of binge if binge occurs (units)			14.5	12.3	14.5	20.7			
Volume sales (units per drinker per year)	Off-trade	Beer	114.6	27.0	198.9	786.3			
		Wine	227.4	95.5	451.1	953.5			
		Spirit	151.5	48.2	267.3	915.1			
		RTD	10.4	2.2	11.4	84.8			
	On-trade	Beer	184.5	83.6	355.8	743.7			
		Wine	29.1	24.6	43.4	43.2			
		Spirit	49.8	31.2	80.3	159.3			
		RTD	12.6	3.9	21.7	60.1			
	<b>Total</b>			<b>779.9</b>	<b>316.2</b>	<b>1,429.8</b>	<b>3,746.0</b>		
	Value sales (£ per drinker per year)	Off-trade	Beer	£ 45	£ 13	£ 80	£ 279		
Wine			£ 112	£ 48	£ 217	£ 475			
Spirit			£ 64	£ 21	£ 114	£ 367			
RTD			£ 8	£ 2	£ 9	£ 59			
On-trade		Beer	£ 219	£ 105	£ 414	£ 855			
		Wine	£ 56	£ 50	£ 79	£ 79			
		Spirit	£ 94	£ 61	£ 148	£ 282			
		RTD	£ 22	£ 7	£ 38	£ 105			
<b>Total</b>			<b>£ 620</b>	<b>£ 308</b>	<b>£ 1,098</b>	<b>£ 2,501</b>			
<b>Absolute change</b>									
Mean consumption per person per week			-0.39	-0.10	-0.91	-2.79			
Mean consumption per drinker per week			-0.47	-0.12	-0.91	-2.79			
% change in mean consumption			-3.1%	-2.1%	-3.3%	-3.9%			
Change in volume of consumption (units per drinker per year)	Off-trade	Beer	-9.21	-1.18	-16.64	-73.00			
		Wine	-13.88	-5.12	-29.29	-59.86			
		Spirit	-4.16	-1.03	-8.14	-25.58			
		RTD	-0.18	-0.03	-0.24	-1.46			
	On-trade	Beer	2.88	0.75	6.72	13.62			
		Wine	0.02	0.01	0.06	0.05			
		Spirit	0.17	0.08	0.30	0.66			
		RTD	0.02	0.01	0.03	0.10			
	<b>Total</b>			<b>-24.35</b>	<b>-6.51</b>	<b>-47.20</b>	<b>-145.46</b>		
	Change in £ value of purchases (sales) (£ per drinker per year)	Off-trade	Beer	£2.52	£0.77	£4.19	£15.74		
Wine			£5.95	£2.98	£10.79	£23.09			
Spirit			£1.34	£0.49	£2.40	£7.21			
RTD			£0.21	£0.06	£0.23	£1.46			
On-trade		Beer	£3.59	£0.98	£8.31	£16.73			
		Wine	£0.05	£0.02	£0.12	£0.12			
		Spirit	£0.30	£0.16	£0.54	£1.11			
		RTD	£0.04	£0.02	£0.06	£0.19			
<b>Total</b>			<b>£13.99</b>	<b>£5.47</b>	<b>£26.64</b>	<b>£85.64</b>			
Effect of policy on "pocket" if drinkers did not change consumption (£ per drinker per year)		Off-trade	Beer	£6.50	£1.36	£11.52	£45.72		
	Wine		£13.93	£6.00	£27.23	£58.06			
	Spirit		£3.26	£0.99	£6.23	£18.53			
	RTD		£0.35	£0.09	£0.41	£2.60			
	On-trade	Beer	£0.00	£0.00	£0.00	£0.00			
		Wine	£0.00	£0.00	£0.00	£0.00			
		Spirit	£0.00	£0.00	£0.00	£0.00			
		RTD	£0.00	£0.00	£0.00	£0.00			
	<b>Total</b>			<b>£24.03</b>	<b>£8.43</b>	<b>£45.39</b>	<b>£124.91</b>		
	Total change in retailer received £m (after VAT+Duty)	Off-trade	£m	48.4	£m	12.3	£m	19.9	£m
On-trade		£m	11.5	£m	2.3	£m	5.9	£m	3.3
<b>Total</b>		£m	<b>60.0</b>	£m	<b>14.6</b>	£m	<b>25.7</b>	£m	<b>18.9</b>
Total Change in VAT & Duty Received	Off-trade	£m	10.5	£m	1.4	£m	4.9	£m	4.2
	On-trade	£m	3.5	£m	0.7	£m	1.8	£m	1.0
	<b>Total</b>	£m	<b>7.0</b>	£m	<b>0.7</b>	£m	<b>3.1</b>	£m	<b>3.1</b>
% change in spend / sales	Off-trade		+4.4%		+5.1%		+4.2%		+4.0%
	On-trade		+1.0%		+0.5%		+1.3%		+1.4%
	<b>Total</b>		<b>+2.3%</b>		<b>+1.8%</b>		<b>+2.4%</b>		<b>+2.6%</b>
Total Change Pop'n Spend (Sales)	Off-trade	£m	37.9	£m	10.9	£m	14.9	£m	11.4
	On-trade	£m	15.1	£m	3.0	£m	7.7	£m	4.4
	<b>Total</b>	£m	<b>53.0</b>	£m	<b>13.9</b>	£m	<b>22.6</b>	£m	<b>15.8</b>

Table 3.3: Consumption effects: Detailed results table for off-trade discount ban (scenario 11)

<b>Males and Females Harm Reductions</b>						
Absolute change			<b>Scotland 11 +</b>	<b>Moderate 18 +</b>	<b>Hazardous 11 +</b>	<b>Harmful 11 +</b>
<b>Health Changes in Year 1</b>	<b>Deaths</b>	<b>Chronic</b>	-13	0	-8	-5
		<b>Acute</b>	-24	-9	-10	-4
		<b>Total</b>	-37	-10	-18	-9
	<b>Illnesses</b>	<b>Chronic</b>	-112	-14	-54	-44
		<b>Acute</b>	-630	-238	-266	-119
		<b>Total</b>	-743	-252	-320	-163
	<b>Admissions</b>	<b>Chronic</b>	-214	-26	-100	-88
		<b>Acute</b>	-729	-271	-305	-143
		<b>Total</b>	-942	-297	-405	-231
	<b>QALYs per annum</b>		-223	-75	-96	-49
<b>Value of 'saved' QALYs</b>		-11,127,349	-3,752,441	-4,775,700	-2,453,894	
<b>Cost (£)</b>	<b>Chronic</b>	-656,183	-93,195	-320,459	-240,444	
	<b>Acute</b>	-3,545,784	-1,322,037	-1,493,488	-684,417	
	<b>Total (£)</b>	-4,201,967	-1,415,232	-1,813,948	-924,861	
<b>Health Changes per annum in Year 10</b>	<b>Deaths p.a.</b>	<b>Chronic</b>	-135	-2	-83	-50
		<b>Acute</b>	-27	-10	-13	-4
		<b>Total</b>	-162	-12	-96	-54
	<b>Illnesses p.a.</b>	<b>Chronic</b>	-1,161	-142	-576	-442
		<b>Acute</b>	-675	-248	-302	-117
		<b>Total</b>	-1,836	-391	-878	-559
	<b>Admissions p.a.</b>	<b>Chronic</b>	-2,205	-257	-1,058	-888
		<b>Acute</b>	-771	-281	-342	-139
		<b>Total</b>	-2,975	-538	-1,400	-1,026
	<b>QALYs per annum</b>		-1,114	-297	-525	-288
<b>Cost (£)</b>	<b>Chronic</b>	-6,728,128	-952,551	-3,379,573	-2,388,039	
	<b>Acute</b>	-3,788,024	-1,379,573	-1,695,368	-669,104	
	<b>Total (£)</b>	-10,516,152	-2,332,124	-5,074,941	-3,057,143	
<b>Cumulative Health Change over 10 yrs</b>	<b>Discounted QALYs</b>		-5,481	-1,477	-2,565	-1,410
	<b>Discounted Costs</b>		-61,212,695	-15,731,064	-28,515,116	-16,545,982
	<b>Value of Discounted QALYs</b>		-274,028,120	-73,851,049	-128,239,675	-70,503,710
	<b>Total Value of Health Changes</b>		-335,240,815	-89,582,113	-156,754,791	-87,049,691
<b>Crime Changes per annum</b>	<b>Volume</b>	<b>Violent</b>	-290	-59	-107	-106
		<b>Damage</b>	-735	-126	-264	-282
		<b>Theft/Oth</b>	-1,019	-191	-380	-370
		<b>Total</b>	-2,045	-376	-751	-759
	<b>Cost (£)</b>	<b>Violent</b>	-862,082	-178,560	-316,281	-311,654
		<b>Damage</b>	-637,641	-109,048	-229,050	-244,918
		<b>Theft/Oth</b>	-276,128	-53,229	-104,342	-97,545
		<b>Total (£)</b>	-1,775,851	-340,836	-649,673	-654,117
	<b>QALYs</b>	<b>Violent</b>	-16	-3	-6	-6
		<b>Damage</b>	0	0	0	0
<b>Theft/Oth</b>		0	0	0	0	
<b>Total</b>		-16	-3	-6	-6	
<b>Value of 'saved' QALYs</b>		-1,262,624	-281,932	-462,788	-445,801	
<b>Employment Changes per annum</b>	<b>Volume</b>	<b>Absence days</b>	-20,473	-7,290	-7,953	-4,958
		<b>Unempl people</b>	-618	0	0	-618
	<b>Cost (£)</b>	<b>Absence</b>	-1,821,740	-677,678	-706,739	-429,514
		<b>Unempl</b>	-13,862,241	0	0	-13,862,241
<b>Total (£)</b>		-15,683,981	-677,678	-706,739	-14,291,755	
<b>Summary Financial Value Harm Reduction Year 1</b>	<b>Health Costs (£)</b>		-4,201,967	-1,415,232	-1,813,948	-924,861
	<b>Crime Costs (£)</b>		-1,775,851	-340,836	-649,673	-654,117
	<b>Employment Costs (£)</b>		-15,683,981	-677,678	-706,739	-14,291,755
	<b>Total Direct Costs (£)</b>		-21,661,799	-2,433,745	-3,170,360	-15,870,733
	<b>Health QALYs (£)</b>		-11,127,349	-3,752,441	-4,775,700	-2,453,894
	<b>Crime QALYs (£)</b>		-1,262,624	-281,932	-462,788	-445,801
	<b>Total Societal Value (£)</b>		-34,051,772	-6,468,119	-8,408,848	-18,770,429
<b>Cumul 10 year Summary Financial Value Harm Reduction</b>	<b>Health Costs (£)</b>		-61,212,695	-15,731,064	-28,515,116	-16,545,982
	<b>Crime Costs (£)</b>		-14,769,050	-2,834,597	-5,403,075	-5,440,032
	<b>Employment Costs (£)</b>		-130,437,484	-5,635,979	-5,877,671	-118,858,886
	<b>Total Direct Costs (£)</b>		-206,419,230	-24,201,640	-39,795,863	-140,844,899
	<b>Health QALYs (£)</b>		-274,028,120	-73,851,049	-128,239,675	-70,503,710
	<b>Crime QALYs (£)</b>		-11,644,151	-2,600,033	-4,267,914	-4,111,262
	<b>Total Societal Value (£)</b>		-492,091,501	-100,652,723	-172,303,452	-215,459,871

Table 3.4: Harm effects: Detailed results table for off-trade discount ban (scenario 11)

### **3.1.3 Example policy analysis: 40p minimum price combined with off-trade discount ban (scenario 15)**

This scenario assumes that a 40p minimum price policy is implemented simultaneously with a total ban on off-trade discounting. Table 3.5 shows the results for consumption changes, consumer spending and sales for 40p minimum price plus total off-trade discount ban policy. Table 3.6 shows the effects of the policy scenario on health, crime and workplace harms, as well as financial valuation.

**Overall weekly consumption changes by -5.1%.** Consumption is estimated to reduce by 39.6 units per drinker per year. **Consumption changes are greatest for harmful drinkers (-296.4 units per year). Moderate drinkers are affected in a small way in absolute terms (-9.1 units per year).**

**Effects on health are estimated to be substantial** with alcohol-attributable deaths estimated to reduce by approximately 59 within the first year of implementation and a full effect after 10 years of around 261. Deaths are distributed differentially across the groups, with approximately 18 saved amongst moderate drinkers, 136 amongst hazardous drinkers and 107 amongst harmful drinkers. Alcohol-attributable morbidity also decreases with an estimated reduction of 990 acute and 190 chronic illnesses in year 1. Hospital admissions are estimated to reduce by around 1,490 in year 1, and a full effect after 10 years of 4,850 avoided admissions per annum. Healthcare service costs are estimated to reduce by £6.6m in year 1, with a QALY gain valued at £17.4m.

**Crime is estimated to fall by 3,100 offences overall.** Almost half of this annual reduction is amongst harmful drinkers, with approximately one third amongst hazardous drinkers. **The harm avoided in terms of victim quality of life is valued at £1.8m per year. Direct costs of crime are estimated to reduce by £2.7m per year.**

**Workplace harms are estimated to be reduced by 1,220 fewer unemployed people and 30,500 fewer sick days per year.**

**The societal value of these harm reductions is estimated at £824m** in total over the 10 year period modelled. In the first year, the estimated societal value of the harm reductions is as follows: NHS cost reductions (£6.6m), value of QALYs saved (£17.4m), crime costs saved (£2.7m), value of crime QALYs saved (£1.8m) and employment related harms avoided (£30.1m).

The societal value of harm reductions is distributed differentially across the groups, with hazardous drinkers accounting for £245m of the total value, harmful drinkers £426m and moderate drinkers £147m.

**Absolute reductions in consumption are estimated to be largest in off-trade beer/cider and off-trade spirit, with a notable reduction also occurring in off-trade wine. There is a substantial absolute increase in consumption of on-trade beer/cider.**

**The cost impact of the policy on consumers varies substantially between drinker types:**

- Harmful drinkers: £126 per drinker per annum
- Hazardous drinkers: £55 per drinker per annum
- Moderate drinkers: £10 per drinker per annum.

**An overall increased spend by consumers is estimated of £113m per annum, split roughly 71:29 between off-trade and on-trade sectors.**

**Overall revenue to the Treasury (from duty and VAT receipts) changes by -£9.9m.**

<b>Males and Females</b>									
<b>Consumption Patterns</b>			<b>Scotland 11 +</b>	<b>Moderate 18 +</b>	<b>Hazardous 11 +</b>	<b>Harmful 11 +</b>			
<b>Baseline</b>									
Mean consumption per person per week n people			12.52	5.01	27.42	71.84			
			4,527,300	3,062,432	848,118	240,012			
Mean consumption per drinker per week n drinkers			14.96	6.06	27.42	71.84			
			3,789,079	2,535,025	848,118	240,012			
% binge (>8 males, >6 females)			21.6%	12.1%	50.4%	70.0%			
Mean scale of binge if binge occurs (units)			14.5	12.3	14.5	20.7			
Volume sales (units per drinker per year)	Off-trade	Beer/Cider	114.6	27.0	198.9	786.3			
		Wine	227.4	95.5	451.1	953.5			
		Spirit	151.5	48.2	267.3	915.1			
		RTD	10.4	2.2	11.4	84.8			
	On-trade	Beer/Cider	184.5	83.6	355.8	743.7			
		Wine	29.1	24.6	43.4	43.2			
		Spirit	49.8	31.2	80.3	159.3			
		RTD	12.6	3.9	21.7	60.1			
	<b>Total</b>			779.9	316.2	1,429.8	3,746.0		
	Value sales (£ per drinker per year)	Off-trade	Beer/Cider	£ 45	£ 13	£ 80	£ 279		
Wine			£ 112	£ 48	£ 217	£ 475			
Spirit			£ 64	£ 21	£ 114	£ 367			
RTD			£ 8	£ 2	£ 9	£ 59			
On-trade		Beer/Cider	£ 219	£ 105	£ 414	£ 855			
		Wine	£ 56	£ 50	£ 79	£ 79			
		Spirit	£ 94	£ 61	£ 148	£ 282			
		RTD	£ 22	£ 7	£ 38	£ 105			
<b>Total</b>			£ 620	£ 308	£ 1,098	£ 2,501			
<b>Absolute change</b>									
Mean consumption per person per week			-0.64	-0.14	-1.24	-5.68			
Mean consumption per drinker per week			-0.76	-0.17	-1.24	-5.68			
% change in mean consumption			-5.1%	-2.9%	-4.5%	-7.9%			
Change in volume of consumption (units per drinker per year)	Off-trade	Beer/Cider	-21.85	-2.66	-36.66	-186.02			
		Wine	-13.36	-5.83	-25.74	-56.33			
		Spirit	-12.83	-3.18	-21.52	-91.29			
		RTD	-0.16	-0.02	-0.23	-1.39			
	On-trade	Beer/Cider	8.02	2.29	18.53	36.52			
		Wine	0.07	0.01	0.20	0.19			
		Spirit	0.47	0.27	0.80	1.67			
		RTD	0.06	0.02	0.10	0.24			
<b>Total</b>			-39.58	-9.09	-64.52	-296.41			
Change in £ value of purchases (sales) (£ per drinker per year)	Off-trade	Beer/Cider	£2.75	£1.08	£4.59	£14.29			
		Wine	£10.11	£4.06	£20.18	£44.04			
		Spirit	£3.00	£1.18	£4.85	£17.02			
		RTD	£0.22	£0.07	£0.24	£1.52			
	On-trade	Beer/Cider	£10.06	£2.99	£22.99	£45.46			
		Wine	£0.13	£0.02	£0.42	£0.43			
		Spirit	£0.85	£0.52	£1.41	£2.77			
		RTD	£0.11	£0.05	£0.19	£0.44			
<b>Total</b>			£27.25	£9.96	£54.87	£125.95			
Effect of policy on "pocket" if drinkers did not change consumption (£ per drinker per year)	Off-trade	Beer/Cider	£12.51	£2.31	£21.20	£95.93			
		Wine	£17.01	£7.24	£33.07	£72.50			
		Spirit	£8.71	£2.63	£14.53	£56.95			
		RTD	£0.35	£0.09	£0.41	£2.60			
	On-trade	Beer/Cider	£0.04	£0.00	£0.03	£0.51			
		Wine	£0.00	£0.00	£0.00	£0.00			
		Spirit	£0.00	£0.00	£0.02	£0.00			
		RTD	£0.00	£0.00	£0.00	£0.00			
<b>Total</b>			£38.62	£12.27	£69.27	£228.48			
Total change in retailer received £m (after VAT+Duty)	Off-trade	£m	80.7	£m	18.7	£m	32.9	£m	28.1
	On-trade	£m	32.4	£m	7.0	£m	16.2	£m	9.0
	<b>Total</b>	£m	113.2	£m	25.7	£m	49.1	£m	37.1
Total Change in VAT & Duty Received	Off-trade	-£m	19.8	-£m	2.5	-£m	7.5	-£m	9.7
	On-trade	£m	9.9	£m	2.1	£m	5.0	£m	2.8
	<b>Total</b>	-£m	9.9	-£m	0.4	-£m	2.6	-£m	6.9
% change in spend / sales	Off-trade		+7.0%		+7.5%		+7.1%		+6.5%
	On-trade		+2.9%		+1.6%		+3.7%		+3.7%
	<b>Total</b>		+4.4%		+3.2%		+5.0%		+5.0%
Total Change Pop'n Spend (Sales)	Off-trade	£m	60.9	£m	16.2	£m	25.3	£m	18.4
	On-trade	£m	42.3	£m	9.1	£m	21.2	£m	11.8
	<b>Total</b>	£m	103.2	£m	25.2	£m	46.5	£m	30.2

Table 3.5: Consumption effects: Detailed results table for 40p minimum price plus total off-trade discount ban (scenario 15)

<b>Males and Females Harm Reductions</b>						
Absolute change			<b>Scotland 11 +</b>	<b>Moderate 18 +</b>	<b>Hazardous 11 +</b>	<b>Harmful 11 +</b>
<b>Health Changes in Year 1</b>	<b>Deaths</b>	<b>Chronic</b>	-21	-1	-11	-10
		<b>Acute</b>	-38	-14	-15	-8
		<b>Total</b>	-59	-15	-26	-18
	<b>Illnesses</b>	<b>Chronic</b>	-186	-22	-78	-85
		<b>Acute</b>	-987	-352	-383	-241
		<b>Total</b>	-1,173	-374	-460	-326
	<b>Admissions</b>	<b>Chronic</b>	-355	-41	-143	-170
		<b>Acute</b>	-1,136	-396	-435	-289
		<b>Total</b>	-1,491	-437	-579	-459
	<b>QALYs per annum</b>		-348	-109	-136	-99
<b>Value of 'saved' QALYs</b>		-17,411,158	-5,449,939	-6,788,128	-4,943,502	
<b>Cost (£)</b>	<b>Chronic</b>	-1,077,888	-147,544	-457,833	-469,416	
	<b>Acute</b>	-5,546,761	-1,946,486	-2,146,079	-1,382,000	
	<b>Total (£)</b>	-6,624,650	-2,094,030	-2,603,912	-1,851,415	
<b>Health Changes per annum in Year 10</b>	<b>Deaths p.a.</b>	<b>Chronic</b>	-218	-2	-117	-99
		<b>Acute</b>	-43	-16	-19	-8
		<b>Total</b>	-261	-18	-136	-107
	<b>Illnesses p.a.</b>	<b>Chronic</b>	-1,906	-220	-820	-864
		<b>Acute</b>	-1,063	-371	-446	-235
		<b>Total</b>	-2,969	-592	-1,267	-1,098
	<b>Admissions p.a.</b>	<b>Chronic</b>	-3,636	-396	-1,508	-1,729
		<b>Acute</b>	-1,209	-415	-500	-279
		<b>Total</b>	-4,846	-812	-2,008	-2,008
	<b>QALYs per annum</b>		-1,786	-456	-760	-565
<b>Cost (£)</b>	<b>Chronic</b>	-10,968,033	-1,476,064	-4,796,558	-4,683,854	
	<b>Acute</b>	-5,964,608	-2,055,095	-2,496,067	-1,344,295	
	<b>Total (£)</b>	-16,932,641	-3,531,159	-7,292,625	-6,028,149	
<b>Cumulative Health Change over 10 yrs</b>	<b>Discounted QALYs</b>		-8,743	-2,228	-3,690	-2,780
	<b>Discounted Costs</b>		-98,096,964	-23,667,245	-41,099,056	-32,675,287
	<b>Value of Discounted QALYs</b>		-437,149,070	-111,388,865	-184,490,569	-139,015,328
	<b>Total Value of Health Changes</b>		-535,246,034	-135,056,110	-225,589,625	-171,690,615
<b>Crime Changes per annum</b>	<b>Volume</b>	<b>Violent</b>	-431	-52	-132	-217
		<b>Damage</b>	-1,127	-106	-337	-583
		<b>Theft/Oth</b>	-1,558	-178	-493	-768
		<b>Total</b>	-3,117	-336	-962	-1,568
	<b>Cost (£)</b>	<b>Violent</b>	-1,270,703	-161,286	-391,318	-629,501
		<b>Damage</b>	-976,816	-92,213	-291,976	-505,679
		<b>Theft/Oth</b>	-436,687	-55,786	-140,338	-208,310
		<b>Total (£)</b>	-2,684,206	-309,285	-823,632	-1,343,490
	<b>QALYs</b>	<b>Violent</b>	-22	-3	-7	-11
		<b>Damage</b>	0	0	0	0
<b>Theft/Oth</b>		0	0	0	0	
<b>Total</b>		-22	-3	-7	-11	
<b>Value of 'saved' QALYs</b>		-1,817,707	-255,564	-558,744	-887,896	
<b>Employment Changes per annum</b>	<b>Volume</b>	<b>Absence days</b>	-30,543	-9,349	-10,467	-10,295
		<b>Unempl people</b>	-1,216	0	0	-1,216
	<b>Cost (£)</b>	<b>Absence</b>	-2,670,522	-867,327	-915,360	-875,372
		<b>Unempl</b>	-27,386,135	0	0	-27,386,135
<b>Total (£)</b>		-30,056,657	-867,327	-915,360	-28,261,507	
<b>Summary Financial Value Harm Reduction Year 1</b>	<b>Health Costs (£)</b>		-6,624,650	-2,094,030	-2,603,912	-1,851,415
	<b>Crime Costs (£)</b>		-2,684,206	-309,285	-823,632	-1,343,490
	<b>Employment Costs (£)</b>		-30,056,657	-867,327	-915,360	-28,261,507
	<b>Total Direct Costs (£)</b>		-39,365,513	-3,270,642	-4,342,905	-31,456,413
	<b>Health QALYs (£)</b>		-17,411,158	-5,449,939	-6,788,128	-4,943,502
	<b>Crime QALYs (£)</b>		-1,817,707	-255,564	-558,744	-887,896
	<b>Total Societal Value (£)</b>		-58,594,378	-8,976,144	-11,689,776	-37,287,811
<b>Cumul 10 year Summary Financial Value Harm Reduction</b>	<b>Health Costs (£)</b>		-98,096,964	-23,667,245	-41,099,056	-32,675,287
	<b>Crime Costs (£)</b>		-22,323,485	-2,572,197	-6,849,823	-11,173,278
	<b>Employment Costs (£)</b>		-249,969,352	-7,213,214	-7,612,690	-235,039,802
	<b>Total Direct Costs (£)</b>		-370,389,802	-33,452,657	-55,561,568	-278,888,367
	<b>Health QALYs (£)</b>		-437,149,070	-111,388,865	-184,490,569	-139,015,328
	<b>Crime QALYs (£)</b>		-16,763,230	-2,356,855	-5,152,839	-8,188,340
	<b>Total Societal Value (£)</b>		-824,302,102	-147,198,376	-245,204,976	-426,092,035

Table 3.6: Harm effects: Detailed results table for 40p minimum price plus total off-trade discount ban (scenario 15)

**3.1.4 Summary tables of pricing policies – Total Scotland population**

SUMMARY - TOTAL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	-0.1%	-2.0	+0.9	+0.2	+0.0	-0.9	+4.7	+3.1	-0.1	+0.9	+8.7	+0.4%	+2.29	+1.28
2 Minimum price 30p	-0.3%	-4.6	+1.8	+0.1	+0.0	-2.7	+11.0	+7.6	-0.8	+2.3	+20.1	+0.9%	+5.32	+3.46
3 Minimum price 35p	-1.0%	-7.4	+2.4	-3.0	+0.0	-7.8	+23.7	+14.9	-3.8	+4.5	+39.3	+1.7%	+10.38	+8.64
4 Minimum price 40p	-2.3%	-10.3	+1.3	-9.1	+0.1	-18.0	+43.1	+25.0	-10.0	+7.6	+65.7	+2.8%	+17.34	+18.11
5 Minimum price 45p	-4.3%	-13.6	-3.1	-16.9	+0.1	-33.5	+67.3	+36.7	-19.5	+11.1	+95.6	+4.1%	+25.24	+32.15
6 Minimum price 50p	-6.7%	-17.2	-9.5	-25.7	+0.1	-52.3	+90.8	+49.2	-31.4	+14.9	+123.4	+5.2%	+32.56	+48.91
7 Minimum price 55p	-9.5%	-20.9	-18.1	-35.2	+0.1	-74.1	+112.1	+62.5	-46.0	+18.9	+147.6	+6.3%	+38.95	+68.41
8 Minimum price 60p	-12.3%	-23.2	-27.8	-45.2	+0.0	-96.2	+130.3	+76.7	-61.4	+23.0	+168.7	+7.2%	+44.52	+89.53
9 Minimum price 65p	-15.3%	-25.2	-38.8	-55.5	-0.0	-119.6	+142.8	+92.2	-78.5	+27.3	+183.8	+7.8%	+48.51	+112.28
10 Minimum price 70p	-18.4%	-27.1	-50.3	-66.1	-0.2	-143.7	+148.0	+108.5	-97.2	+31.6	+190.9	+8.1%	+50.39	+136.04
11 Total off-trade discount ban	-3.1%	-6.3	-13.9	-4.0	-0.2	-24.3	+48.4	+11.5	-10.5	+3.5	+53.0	+2.3%	+13.99	+24.03
12 Minimum price 25p + total off-t discount ban	-3.2%	-8.0	-13.2	-3.8	-0.1	-25.2	+51.9	+14.0	-10.7	+4.3	+59.5	+2.5%	+15.70	+25.07
13 Minimum price 30p + total off-t discount ban	-3.4%	-9.9	-12.6	-4.0	-0.1	-26.6	+56.3	+17.5	-11.4	+5.3	+67.7	+2.9%	+17.87	+26.72
14 Minimum price 35p + total off-t discount ban	-4.0%	-11.8	-12.3	-6.8	-0.1	-31.0	+66.0	+23.7	-14.2	+7.2	+82.7	+3.5%	+21.83	+30.90
15 Minimum price 40p + total off-t discount ban	-5.1%	-13.8	-13.3	-12.4	-0.1	-39.6	+80.7	+32.4	-19.8	+9.9	+103.2	+4.4%	+27.25	+38.62
16 Minimum price 45p + total off-t discount ban	-6.7%	-16.3	-16.5	-19.3	-0.1	-52.3	+97.8	+42.8	-28.2	+13.0	+125.4	+5.3%	+33.09	+49.94
17 Minimum price 50p + total off-t discount ban	-8.7%	-19.3	-21.5	-27.3	-0.1	-68.2	+114.1	+54.2	-39.2	+16.4	+145.6	+6.2%	+38.42	+63.91
18 Minimum price 55p + total off-t discount ban	-11.2%	-22.4	-28.5	-36.2	-0.1	-87.2	+128.7	+66.6	-52.6	+20.1	+162.8	+6.9%	+42.98	+80.63
19 Minimum price 60p + total off-t discount ban	-13.7%	-24.2	-36.9	-45.9	-0.1	-107.1	+141.7	+80.1	-67.3	+24.0	+178.6	+7.6%	+47.13	+99.67
20 Minimum price 65p + total off-t discount ban	-16.5%	-25.8	-46.8	-56.1	-0.2	-129.0	+150.1	+95.1	-83.9	+28.2	+189.4	+8.1%	+50.00	+120.93
21 Minimum price 70p + total off-t discount ban	-19.5%	-27.4	-57.6	-66.6	-0.3	-151.9	+152.0	+111.1	-102.4	+32.4	+193.1	+8.2%	+50.97	+143.52

**Table 3.7: Summary of estimated effects of price policies on consumption, spending and sales - Scotland population**



SUMMARY - TOTAL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+6	-0.0	+0.1	+0.1	+0.0	+2	-0.0	+0.1	-0.0	+0.3	-0.0	-0.0	-0.0	-0.0	-0.0	-0.5	-0.1
2 Minimum price 30p	+2	-0.0	+0.0	-0.0	+0.0	-10	-0.1	+0.0	-0.2	-0.2	-0.0	-0.1	-0.1	-0.2	-0.0	-1.6	-0.2
3 Minimum price 35p	-9	-0.0	-0.1	-0.2	-0.1	-47	-0.4	-0.2	-0.9	-1.5	-0.1	-0.2	-0.3	-0.5	-0.0	-4.9	-0.4
4 Minimum price 40p	-26	-0.1	-0.4	-0.6	-0.1	-119	-0.9	-0.4	-2.2	-3.9	-0.2	-0.5	-0.7	-1.4	-0.0	-11.8	-0.7
5 Minimum price 45p	-50	-0.2	-0.8	-1.2	-0.3	-225	-1.7	-0.9	-4.2	-7.4	-0.4	-1.0	-1.3	-2.6	-0.0	-22.9	-1.2
6 Minimum price 50p	-80	-0.3	-1.3	-2.0	-0.5	-352	-2.6	-1.4	-6.5	-11.7	-0.6	-1.5	-2.0	-4.0	-0.0	-36.9	-1.7
7 Minimum price 55p	-114	-0.4	-1.9	-2.8	-0.7	-497	-3.6	-2.1	-9.2	-16.6	-0.8	-2.1	-2.8	-5.7	-0.0	-53.6	-2.2
8 Minimum price 60p	-150	-0.5	-2.5	-3.7	-0.9	-640	-4.7	-2.7	-12.0	-21.7	-1.0	-2.7	-3.7	-7.4	-0.1	-70.5	-2.7
9 Minimum price 65p	-185	-0.6	-3.1	-4.6	-1.1	-785	-5.8	-3.4	-14.8	-26.8	-1.3	-3.4	-4.6	-9.3	-0.1	-88.8	-3.1
10 Minimum price 70p	-221	-0.7	-3.8	-5.6	-1.3	-926	-6.9	-4.1	-17.6	-32.0	-1.6	-4.0	-5.5	-11.1	-0.1	-108.0	-3.5
11 Total off-trade discount ban	-37	-0.1	-0.6	-0.9	-0.2	-162	-1.2	-0.7	-3.0	-5.5	-0.3	-0.7	-1.0	-2.0	-0.0	-20.5	-0.6
12 Minimum price 25p + total off-t discount ban	-37	-0.1	-0.6	-1.0	-0.2	-166	-1.2	-0.7	-3.0	-5.6	-0.3	-0.7	-1.0	-2.1	-0.0	-21.0	-0.7
13 Minimum price 30p + total off-t discount ban	-39	-0.1	-0.7	-1.0	-0.2	-174	-1.3	-0.7	-3.2	-5.9	-0.3	-0.8	-1.1	-2.2	-0.0	-21.9	-0.7
14 Minimum price 35p + total off-t discount ban	-46	-0.1	-0.8	-1.2	-0.3	-203	-1.5	-0.8	-3.8	-6.8	-0.3	-0.9	-1.2	-2.5	-0.0	-24.8	-0.9
15 Minimum price 40p + total off-t discount ban	-59	-0.2	-1.0	-1.5	-0.3	-261	-1.9	-1.1	-4.8	-8.7	-0.4	-1.1	-1.6	-3.1	-0.0	-30.5	-1.2
16 Minimum price 45p + total off-t discount ban	-79	-0.2	-1.3	-2.0	-0.5	-344	-2.5	-1.4	-6.4	-11.6	-0.6	-1.5	-2.0	-4.1	-0.0	-39.6	-1.6
17 Minimum price 50p + total off-t discount ban	-103	-0.3	-1.7	-2.6	-0.6	-450	-3.3	-1.9	-8.4	-15.2	-0.7	-1.9	-2.7	-5.3	-0.0	-51.2	-2.0
18 Minimum price 55p + total off-t discount ban	-133	-0.4	-2.2	-3.3	-0.8	-575	-4.2	-2.4	-10.7	-19.4	-0.9	-2.5	-3.4	-6.8	-0.0	-65.4	-2.5
19 Minimum price 60p + total off-t discount ban	-165	-0.5	-2.8	-4.1	-1.0	-702	-5.2	-3.0	-13.2	-23.9	-1.2	-3.0	-4.1	-8.3	-0.1	-80.6	-2.9
20 Minimum price 65p + total off-t discount ban	-198	-0.6	-3.4	-5.0	-1.2	-836	-6.2	-3.7	-15.8	-28.8	-1.4	-3.6	-5.0	-10.0	-0.1	-97.5	-3.2
21 Minimum price 70p + total off-t discount ban	-231	-0.7	-3.9	-5.9	-1.4	-969	-7.2	-4.3	-18.5	-33.6	-1.7	-4.3	-5.9	-11.8	-0.1	-115.6	-3.6

Table 3.8: Summary of estimated effects of price policies on health, crime and employment related harm - Scotland population

SUMMARY - CHANGE IN TOTAL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness	Acute illness	Hospital admissions	QALYs saved	Deaths	Chronic illness	Acute illness	Hospital admissions	Cum. discounted QALYs Years 1-10	Violent crime	Criminal damage	Other crime	Total crimes	QALYs of crime victims	Days Absence ('000s)	Unemployed ('000s people)
		('000s)	('000s)	(000s)	('000s)		(000s)	(000s)	(000s)	(000s)					(000s)		
Baseline alcohol attributable harm (estimated by modelling zero consumption)	+826	+2	+22	+30	+8	+1719	+19	+22	+61	+124	+26	+64	+85	+175	+1	+1072	+6
1 Minimum price 25p	0.7%	-0.2%	0.3%	0.2%	0.2%	0.1%	-0.2%	0.3%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.1%
2 Minimum price 30p	0.2%	-0.6%	0.1%	0.0%	0.0%	-0.6%	-0.6%	0.1%	-0.4%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-2.5%
3 Minimum price 35p	-1.1%	-2.0%	-0.7%	-0.8%	-0.7%	-2.8%	-2.0%	-0.7%	-1.5%	-1.2%	-0.3%	-0.3%	-0.3%	-0.3%	-0.3%	-0.5%	-5.8%
4 Minimum price 40p	-3.1%	-4.9%	-1.9%	-2.2%	-1.9%	-6.9%	-4.6%	-2.1%	-3.7%	-3.1%	-0.7%	-0.8%	-0.8%	-0.8%	-0.7%	-1.1%	-11.4%
5 Minimum price 45p	-6.1%	-9.2%	-3.7%	-4.2%	-3.7%	-13.1%	-8.6%	-4.0%	-6.9%	-5.9%	-1.4%	-1.5%	-1.5%	-1.5%	-1.3%	-2.1%	-18.6%
6 Minimum price 50p	-9.7%	-14.3%	-6.0%	-6.7%	-6.0%	-20.5%	-13.4%	-6.5%	-10.7%	-9.4%	-2.2%	-2.3%	-2.4%	-2.3%	-2.1%	-3.4%	-26.5%
7 Minimum price 55p	-13.8%	-20.1%	-8.7%	-9.6%	-8.6%	-28.9%	-18.9%	-9.4%	-15.2%	-13.4%	-3.1%	-3.3%	-3.3%	-3.3%	-3.0%	-5.0%	-34.5%
8 Minimum price 60p	-18.1%	-25.9%	-11.5%	-12.6%	-11.4%	-37.3%	-24.4%	-12.5%	-19.7%	-17.4%	-4.0%	-4.2%	-4.3%	-4.2%	-3.9%	-6.6%	-41.5%
9 Minimum price 65p	-22.4%	-31.8%	-14.4%	-15.7%	-14.3%	-45.6%	-30.1%	-15.7%	-24.3%	-21.6%	-5.0%	-5.3%	-5.4%	-5.3%	-4.9%	-8.3%	-48.3%
10 Minimum price 70p	-26.7%	-37.8%	-17.3%	-18.8%	-17.2%	-53.9%	-35.8%	-18.8%	-28.9%	-25.7%	-6.0%	-6.3%	-6.5%	-6.3%	-5.9%	-10.1%	-54.6%
11 Total off-trade discount ban	-4.5%	-6.3%	-2.9%	-3.2%	-2.9%	-9.4%	-6.0%	-3.1%	-4.9%	-4.4%	-1.1%	-1.2%	-1.2%	-1.2%	-1.2%	-1.9%	-9.6%
12 Minimum price 25p + total off-t discount ban	-4.5%	-6.5%	-2.9%	-3.2%	-3.0%	-9.7%	-6.2%	-3.1%	-5.0%	-4.5%	-1.1%	-1.2%	-1.2%	-1.2%	-1.2%	-2.0%	-10.5%
13 Minimum price 30p + total off-t discount ban	-4.7%	-6.8%	-3.1%	-3.4%	-3.1%	-10.1%	-6.6%	-3.3%	-5.3%	-4.7%	-1.2%	-1.2%	-1.3%	-1.2%	-1.2%	-2.0%	-11.7%
14 Minimum price 35p + total off-t discount ban	-5.5%	-8.0%	-3.6%	-3.9%	-3.6%	-11.8%	-7.7%	-3.8%	-6.2%	-5.5%	-1.3%	-1.4%	-1.5%	-1.4%	-1.4%	-2.3%	-14.4%
15 Minimum price 40p + total off-t discount ban	-7.1%	-10.4%	-4.6%	-5.0%	-4.6%	-15.2%	-9.9%	-4.9%	-8.0%	-7.0%	-1.7%	-1.8%	-1.8%	-1.8%	-1.7%	-2.8%	-19.0%
16 Minimum price 45p + total off-t discount ban	-9.5%	-13.9%	-6.1%	-6.7%	-6.1%	-20.0%	-13.2%	-6.5%	-10.6%	-9.3%	-2.2%	-2.3%	-2.4%	-2.3%	-2.2%	-3.7%	-24.9%
17 Minimum price 50p + total off-t discount ban	-12.5%	-18.1%	-8.0%	-8.8%	-7.9%	-26.2%	-17.2%	-8.6%	-13.8%	-12.2%	-2.9%	-3.0%	-3.1%	-3.0%	-2.8%	-4.8%	-31.5%
18 Minimum price 55p + total off-t discount ban	-16.1%	-23.1%	-10.3%	-11.3%	-10.2%	-33.5%	-21.9%	-11.1%	-17.6%	-15.6%	-3.6%	-3.8%	-4.0%	-3.9%	-3.6%	-6.1%	-38.3%
19 Minimum price 60p + total off-t discount ban	-19.9%	-28.3%	-12.8%	-14.0%	-12.7%	-40.8%	-26.8%	-13.9%	-21.7%	-19.3%	-4.5%	-4.7%	-4.9%	-4.8%	-4.4%	-7.5%	-44.5%
20 Minimum price 65p + total off-t discount ban	-24.0%	-33.8%	-15.6%	-16.9%	-15.4%	-48.6%	-32.1%	-16.9%	-26.0%	-23.1%	-5.4%	-5.7%	-5.9%	-5.7%	-5.3%	-9.1%	-50.7%
21 Minimum price 70p + total off-t discount ban	-27.9%	-39.5%	-18.2%	-19.7%	-18.1%	-56.4%	-37.5%	-19.7%	-30.3%	-27.0%	-6.4%	-6.7%	-6.9%	-6.7%	-6.3%	-10.8%	-56.7%

Table 3.9: Summary of estimated percentage change in alcohol-attributable health, crime and employment harms - Scotland population

SUMMARY - TOTAL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs
1 Minimum price 25p	+0.3	-0	-0	-1.6	-1.4	+8	-0	-6	+2	-	-	-14	-12	+13	-	+1
2 Minimum price 30p	+0.0	-1	-1	-3.8	-4.1	+0	-1	-4.1	-2	-1	-1	-32	-36	-8	-1	-45
3 Minimum price 35p	-1.0	-5	-4	-8.7	-10.6	-2.7	-3	-13.6	-17	-4	-3	-72	-96	-74	-3	-173
4 Minimum price 40p	-2.8	-1.2	-1.0	-16.4	-21.4	-7.3	-7	-29.5	-43	-10	-8	-137	-198	-193	-7	-398
5 Minimum price 45p	-5.5	-2.2	-1.9	-26.5	-36.2	-14.3	-1.4	-51.9	-83	-18	-16	-221	-338	-369	-13	-721
6 Minimum price 50p	-8.8	-3.5	-3.1	-37.5	-52.9	-22.8	-2.2	-78.0	-132	-29	-26	-312	-499	-583	-21	-1,103
7 Minimum price 55p	-12.7	-4.9	-4.6	-48.6	-70.7	-32.9	-3.2	-106.8	-188	-41	-38	-404	-671	-831	-30	-1,532
8 Minimum price 60p	-16.7	-6.4	-6.0	-58.1	-87.1	-43.4	-4.2	-134.8	-247	-53	-50	-483	-833	-1,084	-39	-1,955
9 Minimum price 65p	-20.8	-8.0	-7.6	-67.4	-103.8	-54.3	-5.3	-163.4	-306	-66	-63	-560	-996	-1,342	-49	-2,386
10 Minimum price 70p	-25.0	-9.5	-9.2	-76.1	-119.9	-65.4	-6.4	-191.6	-366	-79	-77	-633	-1,155	-1,599	-59	-2,813
11 Total off-trade discount ban	-4.2	-1.8	-1.8	-13.9	-21.7	-11.1	-1.3	-34.1	-61	-15	-15	-115	-206	-274	-12	-492
12 Minimum price 25p + total off-t discount ban	-4.3	-1.8	-1.9	-15.2	-23.2	-11.3	-1.3	-35.8	-62	-15	-16	-127	-220	-280	-12	-511
13 Minimum price 30p + total off-t discount ban	-4.5	-1.9	-2.0	-17.0	-25.3	-11.8	-1.3	-38.4	-65	-16	-16	-141	-239	-293	-12	-544
14 Minimum price 35p + total off-t discount ban	-5.2	-2.1	-2.2	-21.0	-30.5	-13.6	-1.5	-45.6	-76	-18	-18	-175	-287	-341	-14	-641
15 Minimum price 40p + total off-t discount ban	-6.6	-2.7	-2.7	-27.4	-39.4	-17.4	-1.8	-58.6	-98	-22	-22	-228	-370	-437	-17	-824
16 Minimum price 45p + total off-t discount ban	-8.8	-3.5	-3.4	-35.5	-51.3	-23.1	-2.4	-76.7	-131	-29	-29	-295	-484	-579	-22	-1,085
17 Minimum price 50p + total off-t discount ban	-11.6	-4.6	-4.4	-44.7	-65.3	-30.3	-3.1	-98.6	-171	-38	-37	-372	-618	-758	-28	-1,404
18 Minimum price 55p + total off-t discount ban	-14.9	-5.8	-5.6	-54.0	-80.4	-39.0	-3.9	-123.3	-220	-48	-47	-449	-765	-972	-36	-1,773
19 Minimum price 60p + total off-t discount ban	-18.5	-7.2	-6.9	-62.4	-95.0	-48.4	-4.8	-148.2	-273	-59	-58	-519	-909	-1,197	-44	-2,150
20 Minimum price 65p + total off-t discount ban	-22.5	-8.6	-8.4	-70.9	-110.4	-58.7	-5.8	-174.9	-329	-72	-70	-589	-1,060	-1,438	-53	-2,551
21 Minimum price 70p + total off-t discount ban	-26.3	-10.1	-9.9	-79.0	-125.4	-68.9	-6.8	-201.1	-385	-84	-83	-657	-1,209	-1,678	-63	-2,950

Table 3.10: Summary of financial valuation of pricing policies on health, crime and employment alcohol related harms - Scotland population

### 3.1.5 Comparison with previous results

In this section we compare the results in this report with those presented in our previous report: “Model-based appraisal of alcohol minimum pricing and off-licensed trade discount bans in Scotland – A Scottish adaptation of the Sheffield Alcohol Policy Model version 2. Report to the Scottish Government. September 2009.”

Figure 3.1 compares the change in total population alcohol consumption between the new and the previous results for each of the 21 policies tested. The new results show slightly smaller estimated reductions in total alcohol consumption across the range of policies when compared against the previous results. This reflects the new data used (from Nielsen) which has a price distribution with marginally less alcohol sold at lower prices than our previous report estimated, and therefore, for any of the policies, a slightly lower proportion of the products bought being affected by a minimum price.

Figures 3.2a-3.2b show the differences in estimated mortality effects between the new and the previous results. Because baseline consumption is slightly lower in the SHeS 2008, the total alcohol attributable deaths estimated is also lower (1,719 per annum versus 1,914 previously estimated). The percentage reduction in mortality due to particular policies is slightly higher than the average percentage reduction in consumption (compare Figure 3.2a with Fig 3.1) because harmful drinkers, who are estimated to have greater reductions in consumption, are most affected by mortality risk. Because this percentage reduction is applied to a new (lower) estimate of baseline alcohol-attributable mortality, the absolute estimates in mortality reduction for each policy are now lower (Figure 3.2b).

Figure 3.3 compares the change in the number of hospital admissions per annum between the new and the previous results, again for the whole population and all policies. Similar to mortality, the new baseline estimate is lower, the percentage reductions due to the policies are slightly higher but broadly proportional to consumption reductions, and so the absolute estimates are lower than in the report based on SHeS 2003 data.

Figure 3.4 compares the annual change in the number of total crimes between the new and the previous model. As described above, there were substantial changes in the numbers of types of alcohol-attributable crimes between the new and the old baselines data, with overall 6.5% fewer crimes at baseline.

Figures 3.5 and 3.6 compare the change in the total direct costs (Years 1-10) and total financial valuation of policy effect (Years 1-10) between the new and the previous results. Changes are consistent with those seen for harm effects.

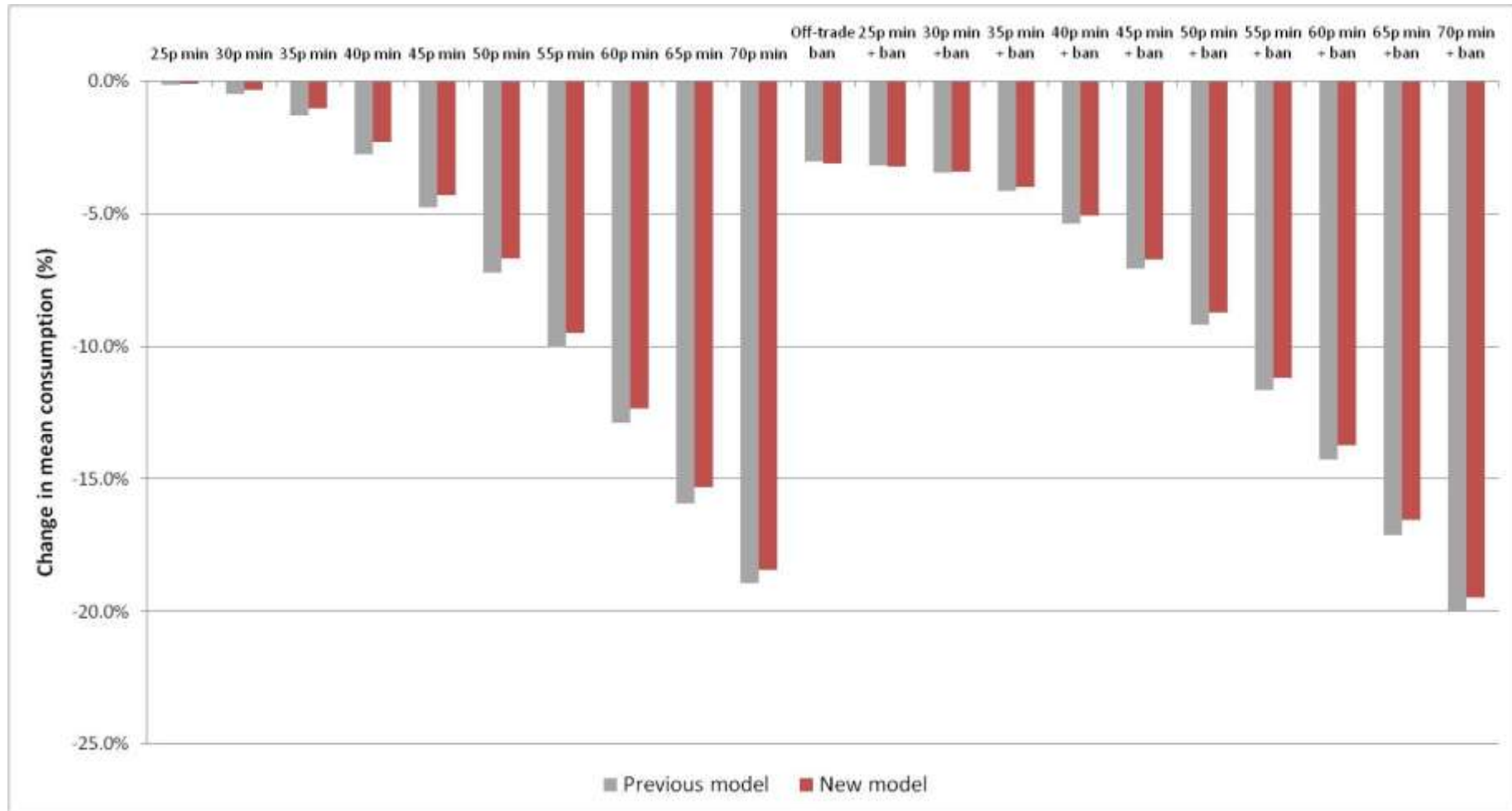


Figure 3.1: Consumption: Comparison of the change of mean weekly alcohol consumption of the total population between the new and the previous results



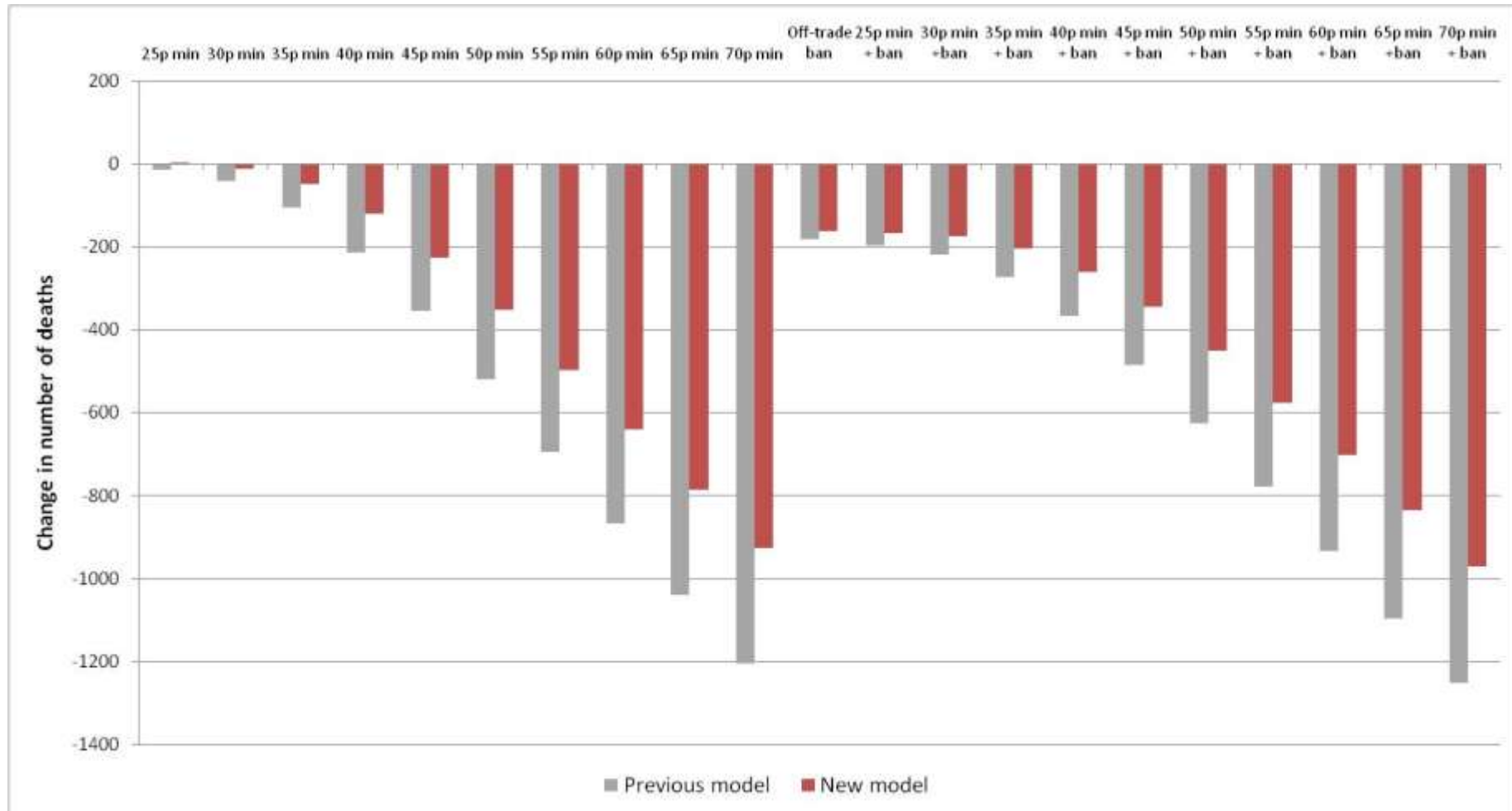


Figure 3.2b: Mortality: Comparison of the change of number of deaths of the total population between the new and the previous results

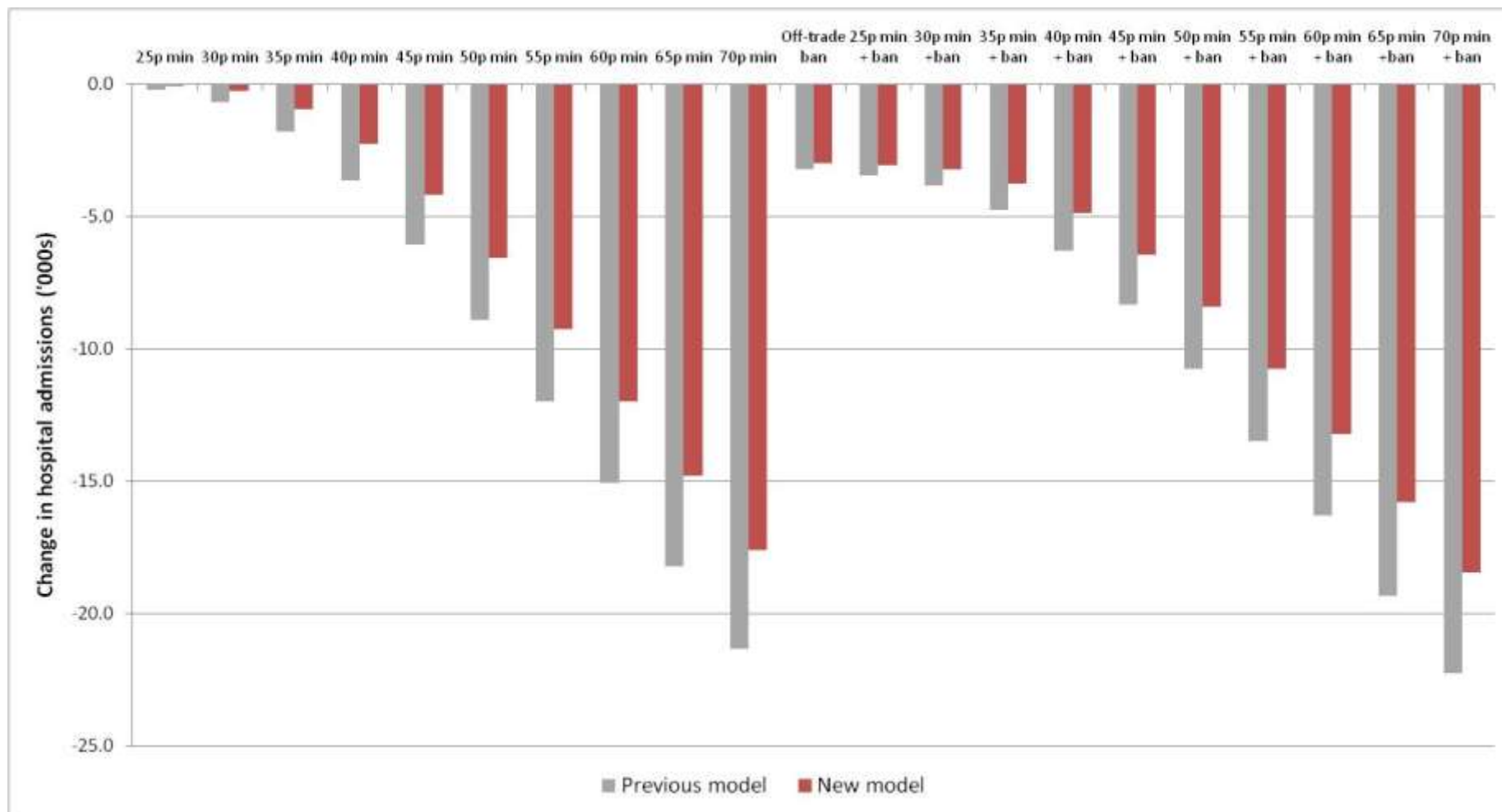


Figure 3.3: Morbidity: Comparison of the change of hospital admissions of the total population between the new and the previous results



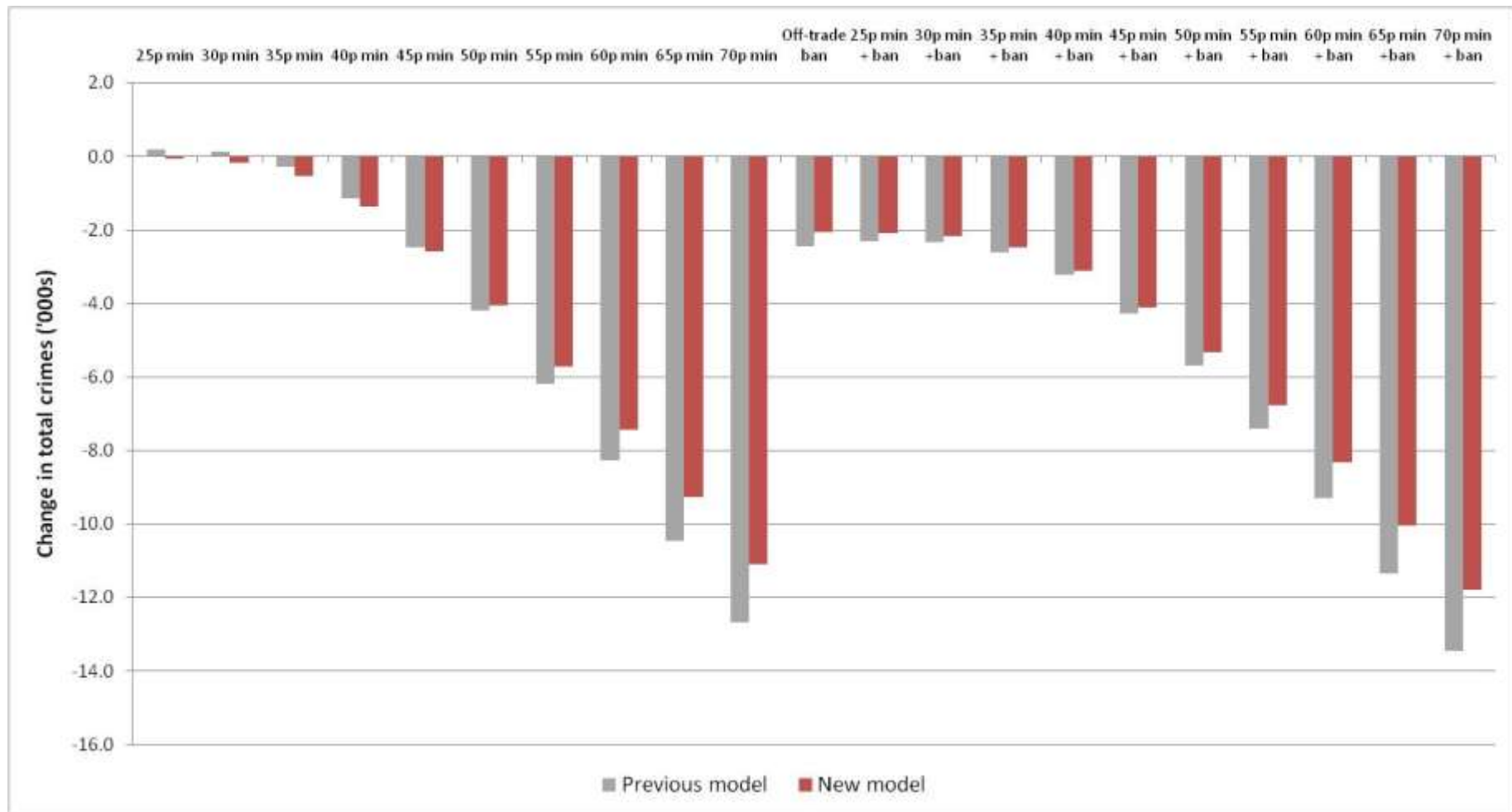


Figure 3.4: Crime: Comparison of the change of total crimes of the total population between the new and the previous results

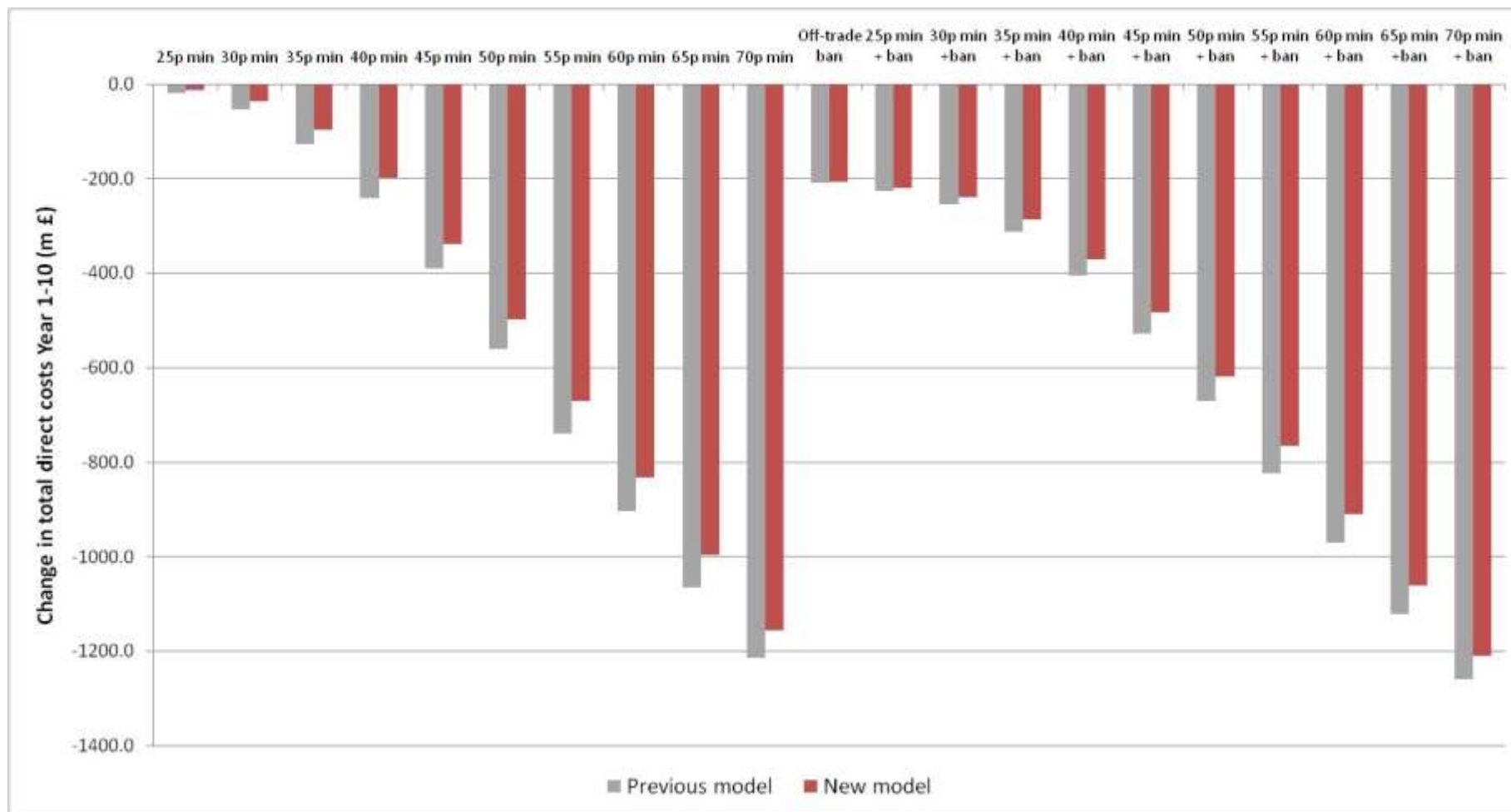


Figure 3.5: Costs: Comparison of the change of total direct costs Year 1-10 of the total population between the new and the previous results

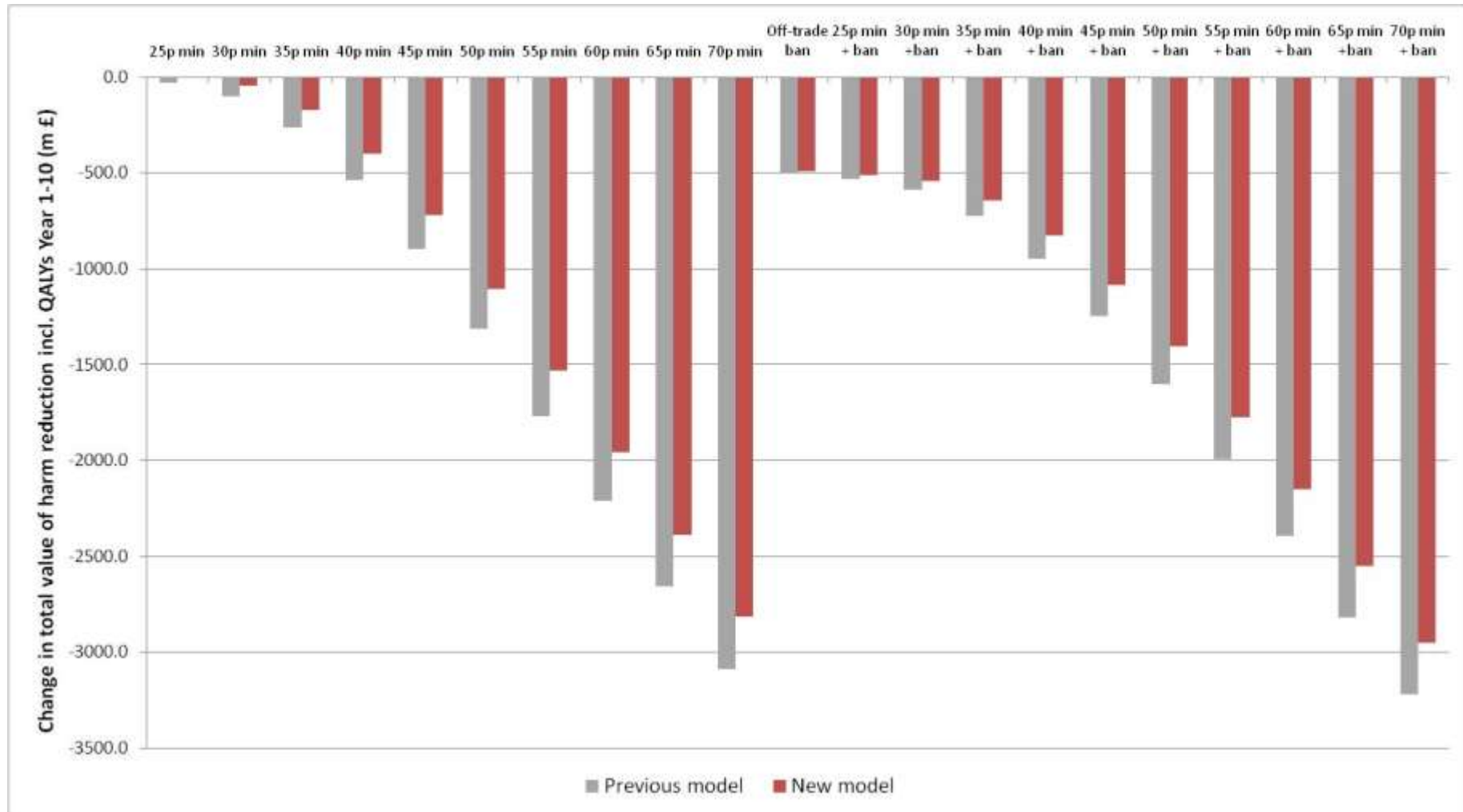


Figure 3.6: Financial Valuation: Comparison of the change of total Financial Valuation Year 1-10 between the new and the previous results

3.1.6 Summary tables for consumption analysis of pricing policies by population sub-group

SUMMARY - MODERATE	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	+0.0%	-0.2	+0.1	+0.1	+0.0	+0.0	+0.7	+0.7	+0.0	+0.2	+1.7	+0.2%	+0.69	+0.29
2 Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.1	+1.7	+1.7	-0.0	+0.5	+3.8	+0.5%	+1.51	+0.77
3 Minimum price 35p	-0.3%	-0.2	-0.1	-0.6	+0.0	-1.0	+4.0	+3.3	-0.4	+1.0	+7.9	+1.0%	+3.11	+2.06
4 Minimum price 40p	-0.9%	-0.0	-0.8	-2.1	+0.0	-2.9	+7.9	+5.5	-1.2	+1.6	+13.8	+1.8%	+5.46	+4.55
5 Minimum price 45p	-2.0%	+0.2	-2.5	-3.9	+0.0	-6.2	+13.5	+8.0	-2.4	+2.4	+21.5	+2.8%	+8.48	+8.58
6 Minimum price 50p	-3.3%	+0.3	-4.9	-5.8	+0.0	-10.4	+19.8	+10.7	-3.9	+3.2	+29.7	+3.8%	+11.71	+13.66
7 Minimum price 55p	-5.0%	+0.4	-8.1	-8.1	+0.1	-15.7	+26.7	+13.5	-5.9	+4.0	+38.3	+4.9%	+15.12	+19.98
8 Minimum price 60p	-6.8%	+0.4	-11.5	-10.5	+0.1	-21.5	+33.0	+16.5	-8.2	+4.9	+46.3	+5.9%	+18.25	+26.91
9 Minimum price 65p	-8.8%	+0.4	-15.4	-13.0	+0.1	-27.9	+38.7	+19.9	-10.9	+5.8	+53.5	+6.9%	+21.12	+34.59
10 Minimum price 70p	-10.9%	+0.4	-19.4	-15.6	+0.1	-34.5	+43.1	+23.6	-13.8	+6.8	+59.6	+7.6%	+23.52	+42.62
11 Total off-trade discount ban	-2.1%	-0.4	-5.1	-0.9	-0.0	-6.5	+12.3	+2.3	-1.4	+0.7	+13.9	+1.8%	+5.47	+8.43
12 Minimum price 25p + total off-t discount ban	-2.1%	-0.6	-5.0	-0.9	-0.0	-6.5	+12.9	+2.9	-1.4	+0.9	+15.3	+2.0%	+6.03	+8.68
13 Minimum price 30p + total off-t discount ban	-2.1%	-0.7	-5.1	-0.9	-0.0	-6.7	+13.6	+3.6	-1.4	+1.1	+16.9	+2.2%	+6.67	+9.06
14 Minimum price 35p + total off-t discount ban	-2.3%	-0.6	-5.3	-1.5	-0.0	-7.4	+15.5	+5.0	-1.8	+1.5	+20.3	+2.6%	+8.00	+10.16
15 Minimum price 40p + total off-t discount ban	-2.9%	-0.4	-5.8	-2.9	+0.0	-9.1	+18.7	+7.0	-2.5	+2.1	+25.2	+3.2%	+9.96	+12.27
16 Minimum price 45p + total off-t discount ban	-3.7%	-0.2	-7.1	-4.5	+0.0	-11.8	+22.9	+9.2	-3.6	+2.8	+31.3	+4.0%	+12.33	+15.52
17 Minimum price 50p + total off-t discount ban	-4.8%	+0.0	-8.9	-6.3	+0.0	-15.2	+27.5	+11.7	-5.0	+3.5	+37.6	+4.8%	+14.84	+19.68
18 Minimum price 55p + total off-t discount ban	-6.2%	+0.2	-11.5	-8.4	+0.0	-19.7	+32.6	+14.4	-6.9	+4.3	+44.4	+5.7%	+17.50	+24.98
19 Minimum price 60p + total off-t discount ban	-7.9%	+0.3	-14.4	-10.7	+0.0	-24.9	+37.5	+17.3	-9.1	+5.1	+50.8	+6.5%	+20.04	+31.11
20 Minimum price 65p + total off-t discount ban	-9.7%	+0.3	-17.9	-13.2	+0.0	-30.8	+42.0	+20.6	-11.7	+6.0	+56.8	+7.3%	+22.41	+38.18
21 Minimum price 70p + total off-t discount ban	-11.7%	+0.4	-21.6	-15.8	+0.1	-37.0	+45.5	+24.1	-14.6	+6.9	+61.9	+7.9%	+24.43	+45.75

Table 3.11: Summary of estimated effects of price policies on consumption, spending and sales – moderate drinkers

SUMMARY - HAZARDOUS	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)		
	Policy Scenario	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1	Minimum price 25p	+0.0%	-2.6	+2.6	+0.4	+0.0	+0.5	+1.9	+1.6	+0.2	+0.5	+4.1	+0.4%	+4.82	+1.88
2	Minimum price 30p	-0.0%	-6.0	+5.4	+0.3	+0.0	-0.3	+4.5	+3.8	+0.2	+1.2	+9.7	+1.0%	+11.43	+5.45
3	Minimum price 35p	-0.4%	-9.2	+7.7	-4.3	+0.1	-5.7	+9.4	+7.4	-0.6	+2.2	+18.5	+2.0%	+21.82	+13.66
4	Minimum price 40p	-1.4%	-12.4	+5.9	-14.0	+0.1	-20.3	+17.4	+12.4	-2.7	+3.8	+31.0	+3.3%	+36.53	+30.11
5	Minimum price 45p	-3.2%	-16.2	-3.4	-26.9	+0.1	-46.4	+27.8	+18.4	-6.3	+5.6	+45.4	+4.9%	+53.55	+55.94
6	Minimum price 50p	-5.6%	-20.2	-17.5	-42.1	+0.1	-79.8	+38.1	+24.8	-11.2	+7.6	+59.2	+6.4%	+69.79	+87.44
7	Minimum price 55p	-8.4%	-24.5	-36.9	-58.7	+0.0	-120.1	+47.3	+31.6	-17.4	+9.6	+71.2	+7.6%	+83.89	+124.10
8	Minimum price 60p	-11.3%	-26.7	-58.9	-76.3	-0.0	-161.9	+54.7	+38.9	-24.1	+11.7	+81.2	+8.7%	+95.79	+163.70
9	Minimum price 65p	-14.4%	-27.4	-83.2	-94.5	-0.1	-205.2	+59.8	+46.6	-31.4	+13.9	+89.0	+9.6%	+104.89	+206.13
10	Minimum price 70p	-17.6%	-28.7	-108.8	-113.5	-0.2	-251.2	+61.3	+54.8	-39.7	+16.2	+92.6	+9.9%	+109.15	+250.57
11	Total off-trade discount ban	-3.3%	-9.9	-29.2	-7.8	-0.2	-47.2	+19.9	+5.9	-4.9	+1.8	+22.6	+2.4%	+26.64	+45.39
12	Minimum price 25p + total off-t discount ban	-3.3%	-12.0	-27.3	-7.5	-0.2	-47.0	+21.2	+7.1	-4.8	+2.2	+25.7	+2.8%	+30.29	+46.92
13	Minimum price 30p + total off-t discount ban	-3.3%	-14.4	-25.5	-7.8	-0.2	-47.9	+23.1	+8.9	-4.9	+2.7	+29.8	+3.2%	+35.09	+49.58
14	Minimum price 35p + total off-t discount ban	-3.7%	-16.4	-24.0	-11.9	-0.2	-52.5	+26.9	+11.9	-5.6	+3.6	+36.8	+3.9%	+43.33	+56.12
15	Minimum price 40p + total off-t discount ban	-4.5%	-18.1	-25.5	-20.7	-0.1	-64.5	+32.9	+16.2	-7.5	+5.0	+46.5	+5.0%	+54.87	+69.27
16	Minimum price 45p + total off-t discount ban	-6.0%	-20.6	-32.3	-32.1	-0.1	-85.1	+40.0	+21.5	-10.7	+6.6	+57.3	+6.2%	+67.59	+89.65
17	Minimum price 50p + total off-t discount ban	-7.9%	-23.7	-43.2	-45.7	-0.1	-112.6	+47.0	+27.3	-15.1	+8.3	+67.5	+7.2%	+79.59	+115.47
18	Minimum price 55p + total off-t discount ban	-10.3%	-27.1	-58.8	-60.9	-0.2	-146.9	+53.1	+33.6	-20.7	+10.2	+76.2	+8.2%	+89.87	+146.57
19	Minimum price 60p + total off-t discount ban	-12.9%	-28.5	-77.7	-77.9	-0.2	-184.2	+58.3	+40.5	-27.1	+12.2	+83.9	+9.0%	+98.92	+182.13
20	Minimum price 65p + total off-t discount ban	-15.7%	-28.5	-99.9	-95.9	-0.3	-224.5	+61.6	+48.0	-34.2	+14.3	+89.7	+9.6%	+105.77	+221.73
21	Minimum price 70p + total off-t discount ban	-18.8%	-29.3	-123.9	-114.6	-0.4	-268.2	+61.6	+56.0	-42.3	+16.5	+91.8	+9.9%	+108.27	+263.96

Table 3.12: Summary of estimated effects of price policies on consumption, spending and sales – hazardous drinkers

SUMMARY - HARMFUL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	Policy Scenario	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.
1 Minimum price 25p	-0.4%	-20.8	+4.1	+1.0	+0.0	-15.7	+2.1	+0.8	-0.3	+0.2	+2.8	+0.5%	+11.82	+10.38
2 Minimum price 30p	-1.1%	-48.4	+9.1	-0.5	+0.1	-39.6	+4.8	+2.1	-1.0	+0.6	+6.5	+1.1%	+27.12	+27.04
3 Minimum price 35p	-2.5%	-81.4	+12.8	-24.7	+0.2	-93.1	+10.1	+4.1	-2.8	+1.3	+12.7	+2.1%	+52.82	+65.45
4 Minimum price 40p	-4.8%	-118.4	+8.1	-70.3	+0.3	-180.3	+17.4	+6.9	-6.1	+2.1	+20.3	+3.4%	+84.64	+129.00
5 Minimum price 45p	-7.9%	-159.0	-9.2	-128.5	+0.4	-296.3	+25.3	+10.1	-10.7	+3.1	+27.8	+4.6%	+115.72	+214.63
6 Minimum price 50p	-11.4%	-202.9	-33.9	-192.0	+0.5	-428.2	+31.8	+13.4	-16.2	+4.1	+33.1	+5.5%	+138.08	+311.61
7 Minimum price 55p	-15.3%	-246.5	-67.6	-258.9	+0.4	-572.6	+36.7	+17.0	-22.5	+5.1	+36.3	+6.0%	+151.28	+419.97
8 Minimum price 60p	-18.9%	-275.0	-106.6	-327.7	-0.5	-709.7	+40.7	+20.8	-28.8	+6.2	+39.0	+6.5%	+162.44	+536.82
9 Minimum price 65p	-22.8%	-303.6	-151.4	-398.0	-1.6	-854.6	+42.2	+25.0	-35.8	+7.4	+38.7	+6.5%	+161.37	+660.82
10 Minimum price 70p	-26.7%	-327.9	-199.4	-469.9	-3.1	-1000.3	+41.2	+29.3	-43.2	+8.5	+35.8	+6.0%	+149.12	+789.78
11 Total off-trade discount ban	-3.9%	-59.4	-59.8	-24.9	-1.4	-145.5	+15.6	+3.3	-4.2	+1.0	+15.8	+2.6%	+65.64	+124.91
12 Minimum price 25p + total off-t discount ban	-4.2%	-76.0	-57.3	-24.3	-1.3	-158.8	+17.1	+3.9	-4.5	+1.2	+17.7	+3.0%	+73.93	+133.26
13 Minimum price 30p + total off-t discount ban	-4.7%	-96.8	-54.0	-25.8	-1.3	-177.9	+18.8	+4.9	-5.0	+1.5	+20.2	+3.4%	+84.13	+145.77
14 Minimum price 35p + total off-t discount ban	-5.9%	-121.3	-51.8	-48.1	-1.2	-222.4	+22.7	+6.6	-6.7	+2.0	+24.7	+4.1%	+102.89	+176.32
15 Minimum price 40p + total off-t discount ban	-7.9%	-149.5	-56.1	-89.6	-1.2	-296.4	+28.1	+9.0	-9.7	+2.8	+30.2	+5.0%	+125.95	+228.48
16 Minimum price 45p + total off-t discount ban	-10.5%	-182.6	-69.3	-141.9	-1.0	-394.8	+33.6	+11.8	-13.8	+3.6	+35.3	+5.9%	+147.04	+299.06
17 Minimum price 50p + total off-t discount ban	-13.6%	-220.3	-89.0	-200.2	-0.9	-510.4	+38.1	+14.9	-18.9	+4.5	+38.6	+6.4%	+160.90	+382.15
18 Minimum price 55p + total off-t discount ban	-17.1%	-258.3	-116.6	-263.5	-1.0	-639.4	+41.1	+18.3	-24.8	+5.5	+40.1	+6.7%	+167.00	+477.62
19 Minimum price 60p + total off-t discount ban	-20.4%	-282.1	-150.6	-330.8	-1.9	-765.4	+43.8	+21.9	-30.8	+6.5	+41.4	+6.9%	+172.44	+584.73
20 Minimum price 65p + total off-t discount ban	-24.1%	-307.6	-191.5	-400.6	-2.9	-902.6	+44.1	+25.9	-37.6	+7.6	+40.0	+6.7%	+166.81	+701.84
21 Minimum price 70p + total off-t discount ban	-27.8%	-329.7	-236.1	-472.2	-4.3	-1042.3	+42.2	+30.2	-44.9	+8.7	+36.2	+6.0%	+150.74	+825.25

Table 3.13: Summary of estimated effects of price policies on consumption, spending and sales – harmful drinkers

3.1.7 Summary tables for health, crime and employment harms by population sub-group

SUMMARY - MODERATE	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+5	+0.0	+0.1	+0.1	+0.0	+5	-0.0	+0.1	+0.1	+0.3	+0.0	+0.0	+0.0	+0.0	+0.0	-0.0	+0.0
2 Minimum price 30p	+3	-0.0	+0.0	+0.0	+0.0	+3	-0.0	+0.0	+0.0	+0.2	+0.0	+0.0	+0.0	+0.0	+0.0	-0.2	+0.0
3 Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-1	-0.0	-0.0	-0.1	-0.3	+0.0	+0.0	+0.0	+0.1	+0.0	-0.8	+0.0
4 Minimum price 40p	-5	-0.0	-0.1	-0.2	-0.0	-6	-0.1	-0.1	-0.3	-0.8	+0.0	+0.0	+0.0	+0.1	+0.0	-2.3	+0.0
5 Minimum price 45p	-12	-0.0	-0.3	-0.3	-0.1	-14	-0.2	-0.3	-0.6	-1.7	-0.0	-0.0	-0.0	-0.1	-0.0	-5.2	+0.0
6 Minimum price 50p	-19	-0.0	-0.4	-0.5	-0.1	-22	-0.3	-0.5	-1.0	-2.8	-0.0	-0.1	-0.1	-0.2	-0.0	-9.1	+0.0
7 Minimum price 55p	-29	-0.0	-0.7	-0.8	-0.2	-33	-0.4	-0.7	-1.5	-4.1	-0.1	-0.1	-0.2	-0.4	-0.0	-14.2	+0.0
8 Minimum price 60p	-39	-0.1	-0.9	-1.1	-0.3	-44	-0.6	-0.9	-2.1	-5.6	-0.1	-0.2	-0.4	-0.7	-0.0	-19.7	+0.0
9 Minimum price 65p	-49	-0.1	-1.1	-1.4	-0.3	-56	-0.7	-1.2	-2.7	-7.1	-0.2	-0.3	-0.5	-1.0	-0.0	-25.9	+0.0
10 Minimum price 70p	-60	-0.1	-1.4	-1.7	-0.4	-68	-0.9	-1.5	-3.3	-8.6	-0.2	-0.4	-0.7	-1.3	-0.0	-32.3	+0.0
11 Total off-trade discount ban	-10	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.2	-0.5	-1.5	-0.1	-0.1	-0.2	-0.4	-0.0	-7.3	+0.0
12 Minimum price 25p + total off-t discount ban	-10	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.2	-0.5	-1.5	-0.1	-0.1	-0.2	-0.4	-0.0	-7.4	+0.0
13 Minimum price 30p + total off-t discount ban	-10	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.3	-0.5	-1.5	-0.1	-0.1	-0.2	-0.4	-0.0	-7.5	+0.0
14 Minimum price 35p + total off-t discount ban	-12	-0.0	-0.3	-0.3	-0.1	-14	-0.2	-0.3	-0.6	-1.7	-0.0	-0.1	-0.2	-0.3	-0.0	-8.1	+0.0
15 Minimum price 40p + total off-t discount ban	-15	-0.0	-0.4	-0.4	-0.1	-18	-0.2	-0.4	-0.8	-2.2	-0.1	-0.1	-0.2	-0.3	-0.0	-9.3	+0.0
16 Minimum price 45p + total off-t discount ban	-20	-0.0	-0.5	-0.6	-0.1	-24	-0.3	-0.5	-1.1	-2.9	-0.1	-0.1	-0.2	-0.4	-0.0	-11.6	+0.0
17 Minimum price 50p + total off-t discount ban	-26	-0.0	-0.6	-0.8	-0.2	-31	-0.4	-0.6	-1.4	-3.9	-0.1	-0.2	-0.3	-0.5	-0.0	-14.7	+0.0
18 Minimum price 55p + total off-t discount ban	-34	-0.1	-0.8	-1.0	-0.2	-40	-0.5	-0.8	-1.8	-5.0	-0.1	-0.2	-0.4	-0.7	-0.0	-18.8	+0.0
19 Minimum price 60p + total off-t discount ban	-43	-0.1	-1.0	-1.2	-0.3	-50	-0.6	-1.1	-2.3	-6.2	-0.1	-0.3	-0.5	-0.9	-0.0	-23.7	+0.0
20 Minimum price 65p + total off-t discount ban	-54	-0.1	-1.3	-1.5	-0.4	-61	-0.8	-1.3	-2.9	-7.7	-0.2	-0.4	-0.6	-1.2	-0.0	-29.4	+0.0
21 Minimum price 70p + total off-t discount ban	-63	-0.1	-1.5	-1.8	-0.5	-71	-0.9	-1.6	-3.4	-9.1	-0.2	-0.5	-0.8	-1.5	-0.0	-35.4	+0.0

Table 3.14: Summary of estimated effects of price policies on health, crime and employment alcohol related harms – moderate drinkers

SUMMARY - HAZARDOUS	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+1	+0.0	+0.0	+0.0	+0.0	+1	+0.0	+0.0	+0.0	+0.1	+0.0	+0.0	+0.0	+0.0	+0.0	+0.2	+0.0
2 Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-2	-0.0	+0.0	-0.0	-0.0	+0.0	-0.0	+0.0	+0.0	+0.0	+0.1	+0.0
3 Minimum price 35p	-3	-0.0	-0.0	-0.1	-0.0	-16	-0.1	-0.1	-0.2	-0.4	-0.0	-0.0	-0.0	-0.0	-0.0	-0.7	+0.0
4 Minimum price 40p	-10	-0.0	-0.1	-0.2	-0.0	-51	-0.3	-0.2	-0.7	-1.4	-0.0	-0.1	-0.1	-0.3	-0.0	-2.9	+0.0
5 Minimum price 45p	-21	-0.1	-0.3	-0.4	-0.1	-107	-0.6	-0.4	-1.6	-2.9	-0.1	-0.2	-0.3	-0.7	-0.0	-7.0	+0.0
6 Minimum price 50p	-35	-0.1	-0.5	-0.8	-0.2	-175	-1.1	-0.6	-2.6	-4.8	-0.2	-0.4	-0.6	-1.2	-0.0	-12.3	+0.0
7 Minimum price 55p	-51	-0.1	-0.7	-1.1	-0.3	-255	-1.6	-0.9	-3.9	-7.0	-0.2	-0.6	-0.9	-1.7	-0.0	-18.8	+0.0
8 Minimum price 60p	-68	-0.2	-1.0	-1.5	-0.3	-338	-2.1	-1.2	-5.2	-9.3	-0.3	-0.8	-1.2	-2.3	-0.0	-25.4	+0.0
9 Minimum price 65p	-84	-0.2	-1.2	-1.9	-0.4	-419	-2.6	-1.5	-6.5	-11.7	-0.4	-1.0	-1.5	-2.9	-0.0	-32.4	+0.0
10 Minimum price 70p	-100	-0.3	-1.5	-2.2	-0.5	-495	-3.2	-1.8	-7.8	-13.9	-0.5	-1.2	-1.8	-3.6	-0.0	-39.8	+0.0
11 Total off-trade discount ban	-18	-0.1	-0.3	-0.4	-0.1	-96	-0.6	-0.3	-1.4	-2.6	-0.1	-0.3	-0.4	-0.8	-0.0	-8.0	+0.0
12 Minimum price 25p + total off-t discount ban	-18	-0.1	-0.3	-0.4	-0.1	-96	-0.6	-0.3	-1.4	-2.6	-0.1	-0.3	-0.4	-0.7	-0.0	-7.9	+0.0
13 Minimum price 30p + total off-t discount ban	-19	-0.1	-0.3	-0.4	-0.1	-98	-0.6	-0.3	-1.4	-2.6	-0.1	-0.3	-0.4	-0.8	-0.0	-7.9	+0.0
14 Minimum price 35p + total off-t discount ban	-21	-0.1	-0.3	-0.5	-0.1	-109	-0.7	-0.4	-1.6	-2.9	-0.1	-0.3	-0.4	-0.8	-0.0	-8.6	+0.0
15 Minimum price 40p + total off-t discount ban	-26	-0.1	-0.4	-0.6	-0.1	-136	-0.8	-0.4	-2.0	-3.7	-0.1	-0.3	-0.5	-1.0	-0.0	-10.5	+0.0
16 Minimum price 45p + total off-t discount ban	-35	-0.1	-0.5	-0.8	-0.2	-178	-1.1	-0.6	-2.7	-4.9	-0.2	-0.4	-0.6	-1.2	-0.0	-13.7	+0.0
17 Minimum price 50p + total off-t discount ban	-46	-0.1	-0.7	-1.0	-0.2	-234	-1.4	-0.8	-3.5	-6.4	-0.2	-0.6	-0.8	-1.6	-0.0	-18.1	+0.0
18 Minimum price 55p + total off-t discount ban	-60	-0.2	-0.9	-1.3	-0.3	-303	-1.9	-1.0	-4.6	-8.4	-0.3	-0.7	-1.1	-2.1	-0.0	-23.5	+0.0
19 Minimum price 60p + total off-t discount ban	-75	-0.2	-1.1	-1.7	-0.4	-375	-2.3	-1.3	-5.8	-10.4	-0.4	-0.9	-1.4	-2.6	-0.0	-29.4	+0.0
20 Minimum price 65p + total off-t discount ban	-90	-0.3	-1.3	-2.0	-0.5	-448	-2.8	-1.6	-7.0	-12.5	-0.4	-1.1	-1.6	-3.2	-0.0	-35.8	+0.0
21 Minimum price 70p + total off-t discount ban	-105	-0.3	-1.6	-2.4	-0.6	-522	-3.3	-1.8	-8.2	-14.6	-0.5	-1.3	-2.0	-3.8	-0.0	-42.8	+0.0

Table 3.15: Summary of estimated effects of price policies on health, crime and employment alcohol related harms – hazardous drinkers



SUMMARY - HARMFUL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
1 Minimum price 25p	-1	-0.0	-0.0	-0.0	-0.0	-4	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.1	-0.0	-0.6	-0.1
2 Minimum price 30p	-2	-0.0	-0.0	-0.1	-0.0	-11	-0.1	-0.0	-0.2	-0.3	-0.0	-0.1	-0.1	-0.2	-0.0	-1.5	-0.2
3 Minimum price 35p	-5	-0.0	-0.1	-0.1	-0.0	-30	-0.3	-0.1	-0.6	-0.8	-0.1	-0.2	-0.2	-0.5	-0.0	-3.3	-0.4
4 Minimum price 40p	-10	-0.0	-0.1	-0.3	-0.1	-62	-0.5	-0.1	-1.2	-1.6	-0.1	-0.4	-0.5	-1.0	-0.0	-6.3	-0.7
5 Minimum price 45p	-17	-0.1	-0.2	-0.5	-0.1	-105	-0.8	-0.2	-2.0	-2.7	-0.2	-0.6	-0.8	-1.6	-0.0	-10.3	-1.2
6 Minimum price 50p	-26	-0.1	-0.4	-0.7	-0.1	-154	-1.2	-0.3	-2.9	-4.0	-0.3	-0.9	-1.1	-2.3	-0.0	-14.9	-1.7
7 Minimum price 55p	-35	-0.2	-0.5	-0.9	-0.2	-208	-1.6	-0.5	-3.8	-5.4	-0.4	-1.2	-1.5	-3.1	-0.0	-19.8	-2.2
8 Minimum price 60p	-43	-0.2	-0.6	-1.1	-0.2	-258	-2.0	-0.6	-4.7	-6.7	-0.5	-1.4	-1.8	-3.8	-0.0	-24.4	-2.7
9 Minimum price 65p	-52	-0.2	-0.7	-1.3	-0.3	-310	-2.4	-0.7	-5.6	-8.0	-0.6	-1.7	-2.2	-4.6	-0.0	-29.3	-3.1
10 Minimum price 70p	-60	-0.3	-0.8	-1.5	-0.3	-363	-2.8	-0.8	-6.5	-9.3	-0.7	-2.0	-2.6	-5.3	-0.0	-34.2	-3.5
11 Total off-trade discount ban	-9	-0.0	-0.1	-0.2	-0.0	-54	-0.4	-0.1	-1.0	-1.4	-0.1	-0.3	-0.4	-0.8	-0.0	-5.0	-0.6
12 Minimum price 25p + total off-t discount ban	-10	-0.0	-0.1	-0.2	-0.1	-58	-0.5	-0.1	-1.1	-1.5	-0.1	-0.3	-0.4	-0.8	-0.0	-5.5	-0.7
13 Minimum price 30p + total off-t discount ban	-10	-0.1	-0.1	-0.3	-0.1	-64	-0.5	-0.1	-1.2	-1.7	-0.1	-0.3	-0.4	-0.9	-0.0	-6.2	-0.7
14 Minimum price 35p + total off-t discount ban	-13	-0.1	-0.2	-0.3	-0.1	-80	-0.7	-0.2	-1.5	-2.1	-0.2	-0.4	-0.6	-1.1	-0.0	-7.7	-0.9
15 Minimum price 40p + total off-t discount ban	-18	-0.1	-0.2	-0.5	-0.1	-107	-0.9	-0.2	-2.0	-2.8	-0.2	-0.6	-0.8	-1.6	-0.0	-10.3	-1.2
16 Minimum price 45p + total off-t discount ban	-24	-0.1	-0.3	-0.6	-0.1	-143	-1.1	-0.3	-2.7	-3.7	-0.3	-0.8	-1.0	-2.1	-0.0	-13.7	-1.6
17 Minimum price 50p + total off-t discount ban	-31	-0.1	-0.4	-0.8	-0.2	-185	-1.5	-0.4	-3.4	-4.8	-0.4	-1.0	-1.3	-2.7	-0.0	-17.7	-2.0
18 Minimum price 55p + total off-t discount ban	-39	-0.2	-0.5	-1.0	-0.2	-232	-1.8	-0.5	-4.3	-6.0	-0.5	-1.3	-1.7	-3.4	-0.0	-22.1	-2.5
19 Minimum price 60p + total off-t discount ban	-46	-0.2	-0.6	-1.2	-0.3	-277	-2.2	-0.6	-5.0	-7.2	-0.6	-1.5	-2.0	-4.1	-0.0	-26.3	-2.9
20 Minimum price 65p + total off-t discount ban	-54	-0.3	-0.7	-1.4	-0.3	-326	-2.5	-0.7	-5.9	-8.4	-0.7	-1.8	-2.3	-4.9	-0.0	-30.9	-3.2
21 Minimum price 70p + total off-t discount ban	-63	-0.3	-0.9	-1.6	-0.3	-377	-2.9	-0.8	-6.7	-9.7	-0.8	-2.1	-2.7	-5.5	-0.0	-35.7	-3.6

Table 3.16: Summary of estimated effects of price policies on health, crime and employment alcohol related harms – harmful drinkers

**3.1.8 Summary tables for financial value of harm reductions by population sub-group**

SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)									Cumulative discounted value of harm reduction over 10 years (£m)							
	Policy Scenario	Healthcare costs	Crime costs	Absence costs	Unemployment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs	Healthcare costs	Crime costs	Absence costs	Unemployment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs
		Year 1	Year 1	Year 1	Year 1	Year 1	Year 1	Year 1	Year 1	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10
1 Minimum price 25p	+0.3	+0	-0	+0	+3	+8	+0	+1.1	+3	+	-	+	+3	+15	+	+18	
2 Minimum price 30p	+0.2	+0	-0	+0	+2	+5	+0	+8	+2	+	-	+	+2	+8	+	+10	
3 Minimum price 35p	-0.2	+1	-1	+0	-2	-5	+1	-7	-3	+1	-1	+	-3	-13	+	-15	
4 Minimum price 40p	-0.8	+0	-2	+0	-9	-1.9	+0	-2.8	-9	+	-2	+	-10	-42	+	-52	
5 Minimum price 45p	-1.6	-1	-5	+0	-2.1	-4.0	-0	-6.1	-18	-	-4	+	-23	-86	-	-110	
6 Minimum price 50p	-2.6	-2	-8	+0	-3.6	-6.6	-2	-10.4	-30	-2	-7	+	-39	-141	-2	-181	
7 Minimum price 55p	-3.9	-4	-1.3	+0	-5.6	-9.9	-3	-15.8	-45	-3	-11	+	-59	-207	-3	-269	
8 Minimum price 60p	-5.3	-6	-1.8	+0	-7.7	-13.5	-5	-21.7	-61	-5	-15	+	-81	-278	-5	-363	
9 Minimum price 65p	-6.8	-9	-2.4	+0	-10.0	-17.4	-7	-28.1	-78	-7	-20	+	-105	-353	-7	-464	
10 Minimum price 70p	-8.3	-1.2	-3.0	+0	-12.5	-21.5	-9	-34.9	-95	-10	-25	+	-130	-430	-9	-569	
11 Total off-trade discount ban	-1.4	-3	-7	+0	-2.4	-3.8	-3	-6.5	-16	-3	-6	+	-24	-74	-3	-101	
12 Minimum price 25p + total off-t discount ban	-1.4	-3	-7	+0	-2.4	-3.7	-3	-6.4	-16	-3	-6	+	-24	-74	-3	-101	
13 Minimum price 30p + total off-t discount ban	-1.4	-3	-7	+0	-2.5	-3.8	-3	-6.6	-16	-3	-6	+	-24	-76	-2	-103	
14 Minimum price 35p + total off-t discount ban	-1.6	-3	-8	+0	-2.7	-4.3	-2	-7.3	-18	-2	-6	+	-27	-87	-2	-117	
15 Minimum price 40p + total off-t discount ban	-2.1	-3	-9	+0	-3.3	-5.4	-3	-9.0	-24	-3	-7	+	-33	-111	-2	-147	
16 Minimum price 45p + total off-t discount ban	-2.8	-4	-1.1	+0	-4.2	-7.2	-3	-11.7	-31	-3	-9	+	-44	-147	-3	-194	
17 Minimum price 50p + total off-t discount ban	-3.6	-5	-1.4	+0	-5.5	-9.3	-4	-15.2	-41	-4	-11	+	-57	-193	-4	-253	
18 Minimum price 55p + total off-t discount ban	-4.7	-6	-1.7	+0	-7.1	-12.1	-5	-19.7	-54	-5	-14	+	-73	-249	-5	-327	
19 Minimum price 60p + total off-t discount ban	-6.0	-8	-2.2	+0	-9.0	-15.3	-7	-25.0	-68	-7	-18	+	-93	-312	-6	-411	
20 Minimum price 65p + total off-t discount ban	-7.4	-1.1	-2.7	+0	-11.2	-19.1	-9	-31.2	-85	-9	-22	+	-116	-384	-8	-508	
21 Minimum price 70p + total off-t discount ban	-8.8	-1.3	-3.2	+0	-13.4	-22.7	-1.1	-37.1	-100	-11	-27	+	-138	-453	-10	-601	

**Table 3.17: Summary of estimated financial value of harm reductions – moderate drinkers**

SUMMARY - HAZARDOUS	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
1	+0.1	+0	+0	+0	+1	+2	+0	+3	+1	+	+	+	+1	+4	+	+5
2	+0.0	+0	+0	+0	+0	+1	+0	+1	-	+	+	+	-	-1	+	-1
3	-0.3	-1	-1	+0	-4	-7	-0	-1.1	-5	-1	-	+	-6	-21	-	-27
4	-0.9	-2	-2	+0	-1.4	-2.4	-1	-3.9	-15	-2	-2	+	-19	-68	-1	-89
5	-2.0	-6	-6	+0	-3.2	-5.2	-4	-8.7	-32	-5	-5	+	-42	-144	-3	-189
6	-3.4	-1.0	-1.1	+0	-5.4	-8.8	-6	-14.8	-54	-8	-9	+	-71	-239	-6	-316
7	-5.0	-1.5	-1.6	+0	-8.1	-13.0	-1.0	-22.0	-79	-12	-13	+	-105	-351	-9	-465
8	-6.7	-2.0	-2.2	+0	-10.9	-17.5	-1.3	-29.6	-106	-16	-18	+	-141	-467	-12	-620
9	-8.5	-2.5	-2.8	+0	-13.7	-22.0	-1.6	-37.3	-133	-21	-23	+	-177	-583	-15	-775
10	-10.1	-3.0	-3.4	+0	-16.6	-26.4	-2.0	-45.0	-160	-25	-28	+	-213	-694	-18	-926
11	-1.8	-6	-7	+0	-3.2	-4.8	-5	-8.4	-29	-5	-6	+	-40	-128	-4	-172
12	-1.8	-6	-7	+0	-3.2	-4.8	-5	-8.4	-29	-5	-6	+	-40	-129	-4	-173
13	-1.9	-7	-7	+0	-3.2	-4.9	-5	-8.6	-29	-5	-6	+	-41	-132	-4	-177
14	-2.1	-7	-8	+0	-3.5	-5.4	-5	-9.5	-33	-6	-6	+	-45	-147	-4	-197
15	-2.6	-8	-9	+0	-4.3	-6.8	-6	-11.7	-41	-7	-8	+	-56	-184	-5	-245
16	-3.5	-1.1	-1.2	+0	-5.7	-9.0	-7	-15.4	-55	-9	-10	+	-73	-243	-7	-323
17	-4.6	-1.4	-1.6	+0	-7.6	-12.0	-9	-20.4	-73	-12	-13	+	-97	-322	-9	-428
18	-6.0	-1.8	-2.0	+0	-9.8	-15.6	-1.2	-26.6	-95	-15	-17	+	-126	-418	-11	-555
19	-7.6	-2.2	-2.5	+0	-12.3	-19.6	-1.5	-33.4	-119	-19	-21	+	-158	-521	-14	-693
20	-9.1	-2.7	-3.1	+0	-14.9	-23.8	-1.8	-40.5	-144	-22	-25	+	-191	-626	-17	-834
21	-10.7	-3.2	-3.7	+0	-17.6	-28.0	-2.1	-47.7	-169	-27	-30	+	-226	-732	-20	-978

Table 3.18: Summary of estimated financial value of harm reductions – hazardous drinkers

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SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemploy ment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemploy ment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
Policy Scenario																
1 Minimum price 25p	-0.1	-0	-1	-1.6	-1.8	-2	-0	-2.0	-1	-	-	-14	-16	-6	-	-22
2 Minimum price 30p	-0.2	-2	-1	-3.8	-4.3	-6	-1	-5.0	-4	-1	-1	-32	-38	-15	-1	-54
3 Minimum price 35p	-0.5	-4	-3	-8.7	-9.9	-1.5	-3	-11.7	-10	-4	-2	-72	-88	-40	-3	-130
4 Minimum price 40p	-1.1	-9	-5	-16.4	-18.9	-3.0	-6	-22.4	-19	-7	-4	-137	-167	-81	-5	-254
5 Minimum price 45p	-1.8	-14	-9	-26.5	-30.6	-4.9	-9	-36.5	-32	-12	-7	-221	-272	-137	-8	-417
6 Minimum price 50p	-2.7	-20	-12	-37.5	-43.4	-7.2	-13	-51.9	-47	-17	-10	-312	-386	-200	-12	-598
7 Minimum price 55p	-3.6	-26	-16	-48.6	-56.5	-9.7	-17	-67.9	-63	-22	-14	-404	-503	-269	-16	-788
8 Minimum price 60p	-4.5	-33	-20	-58.1	-67.9	-12.0	-21	-82.0	-78	-27	-17	-483	-605	-334	-20	-958
9 Minimum price 65p	-5.4	-40	-24	-67.4	-79.1	-14.3	-26	-96.1	-93	-33	-20	-560	-707	-399	-24	-1,130
10 Minimum price 70p	-6.3	-46	-28	-76.1	-89.8	-16.7	-30	-109.5	-109	-38	-24	-633	-803	-467	-27	-1,298
11 Total off-trade discount ban	-0.9	-7	-4	-13.9	-15.9	-2.5	-4	-18.8	-17	-5	-4	-115	-141	-71	-4	-215
12 Minimum price 25p + total off-t discount ban	-1.0	-7	-5	-15.2	-17.4	-2.7	-5	-20.5	-18	-6	-4	-127	-154	-76	-4	-234
13 Minimum price 30p + total off-t discount ban	-1.1	-8	-5	-17.0	-19.4	-3.0	-5	-22.9	-20	-6	-4	-141	-172	-84	-5	-260
14 Minimum price 35p + total off-t discount ban	-1.4	-10	-7	-21.0	-24.0	-3.7	-6	-28.4	-24	-8	-6	-175	-213	-104	-6	-323
15 Minimum price 40p + total off-t discount ban	-1.9	-13	-9	-27.4	-31.5	-4.9	-9	-37.3	-33	-11	-7	-228	-279	-139	-8	-426
16 Minimum price 45p + total off-t discount ban	-2.5	-18	-12	-35.5	-41.0	-6.6	-12	-48.7	-44	-15	-10	-295	-364	-186	-11	-560
17 Minimum price 50p + total off-t discount ban	-3.2	-23	-15	-44.7	-51.7	-8.6	-15	-61.8	-56	-19	-12	-372	-460	-240	-14	-714
18 Minimum price 55p + total off-t discount ban	-4.1	-29	-19	-54.0	-62.9	-10.8	-19	-75.6	-71	-24	-15	-449	-560	-301	-18	-878
19 Minimum price 60p + total off-t discount ban	-4.8	-35	-22	-62.4	-72.9	-12.9	-23	-88.1	-84	-29	-18	-519	-650	-359	-21	-1,030
20 Minimum price 65p + total off-t discount ban	-5.7	-42	-26	-70.9	-83.3	-15.1	-27	-101.1	-98	-35	-21	-589	-744	-421	-25	-1,190
21 Minimum price 70p + total off-t discount ban	-6.5	-48	-30	-79.0	-93.3	-17.4	-31	-113.8	-113	-40	-25	-657	-835	-485	-29	-1,349

Table 3.19: Summary of estimated financial value of harm reductions – harmful drinkers

### 3.2 SENSITIVITY ANALYSES

This section shows the results of revised sensitivity analyses around the baseline model findings using the new model inputs. The analyses include (i) probabilistic sensitivity analysis (PSA) around the price elasticities of demand estimated by the econometric modelling; (ii) use of alternative assumptions around the differential responsiveness of moderate and heavier drinkers; (iii) use of alternative evidence for drinkers' preferences for off-trade versus on-trade consumption; (iv) use of alternative evidence around the risk functions for coronary heart disease; (v) alternative measures of attribution of crimes to alcohol consumption. Detailed results tables for the sensitivity analyses are provided in Appendix 8 to 12.

#### 3.2.1 Probabilistic sensitivity analysis

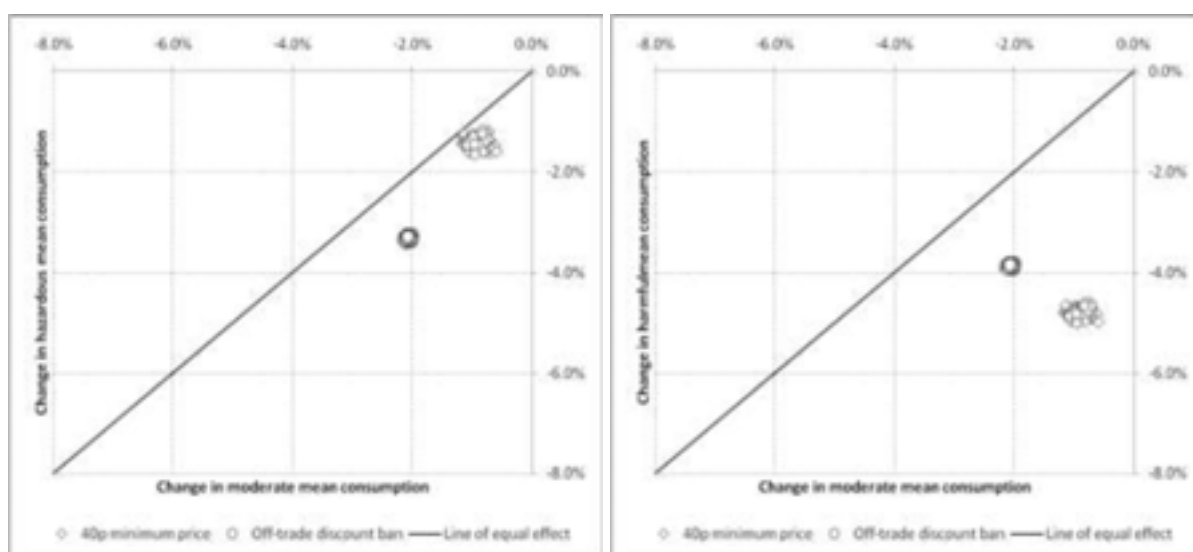
For illustrative purposes, PSA results have been generated around three policy scenarios: a 40p minimum price in isolation, an off-trade discount ban in isolation, and the combination of a 40p minimum price with an off-trade discount ban. Each analysis is based on 100 alternative versions of the 16x16 moderate elasticity matrix and 16x16 hazardous/harmful matrix, based on samples from the underlying variance-covariance matrices derived for the population of England. Estimated 95% confidence intervals for the change in mean consumption resulting from the three policies are shown in Table 3.20.

Policy	Drinker type	Lower 95% CI	Upper 95% CI
40p minimum price	All	-2.2%	-2.4%
	Moderate	-0.7%	-1.1%
	Hazardous	-1.2%	-1.6%
	Harmful	-4.7%	-5.0%
Off-trade discount ban	All	-3.1%	-3.2%
	Moderate	-2.0%	-2.1%
	Hazardous	-3.3%	-3.4%
	Harmful	-3.8%	-3.9%
40p minimum price + off-trade discount ban	All	-4.9%	-5.2%
	Moderate	-2.6%	-3.1%
	Hazardous	-4.3%	-4.7%
	Harmful	-7.7%	-8.1%

**Table 3.20: PSA confidence interval estimates**

Scatter plots of the relationship between moderate drinkers and either hazardous or harmful drinkers are shown in Figure 3.7. Each point shown is an individual PSA result comparing the

change in moderate drinker consumption with the change in either hazardous or harmful drinker consumption (diamonds for a 40p minimum price and circles for an off-trade discount ban). A line of equal effect is also plotted for each figure: estimates below and to the right of the line indicate that the comparator group to moderate drinkers is affected more in relative terms by the policy. As is apparent from the plots, both hazardous and harmful drinkers are estimated with a high degree of confidence to be more responsive to both a 40p minimum price and an off-trade discount ban than moderate drinkers. These results are very similar to those presented in the September 2009 Sheffield report.

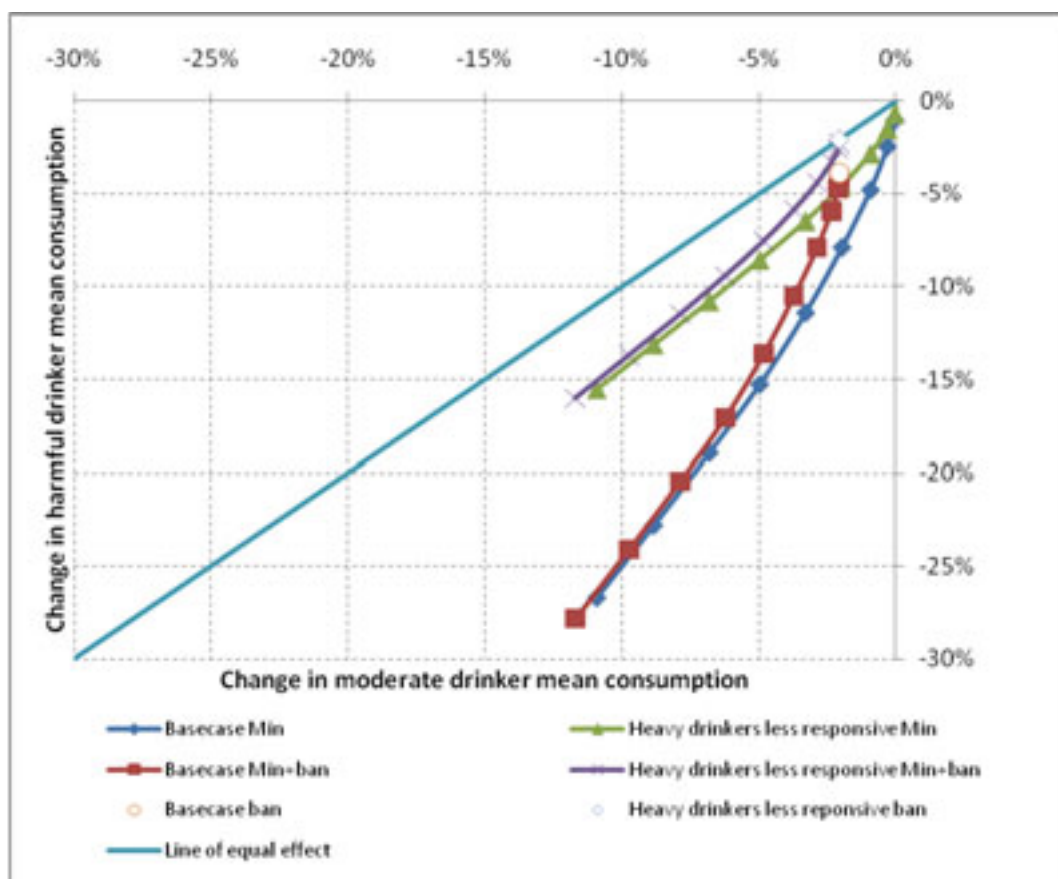


**Figure 3.7: Scatter plot of PSA results, showing relative change in consumption by (a) moderate drinkers versus hazardous drinkers; (b) moderate drinkers versus harmful drinkers**

### 3.2.2 Moderate versus heavy drinkers

Results are also similar to the September 2009 report in the scenarios where hazardous and harmful drinkers are assumed to be one third less responsive to price changes than moderate drinkers. Again, estimated policy effectiveness in terms of overall harm reduction is reduced compared with the basecase. A plot of change in mean consumption for moderate drinkers versus harmful drinkers for minimum price policies (both with and without a simultaneous off-trade discount ban), with thresholds increasing from 25p to 70p is shown in Figure 3.8. A line of equal effect is also plotted: if a policy estimate lies on this line then it has equal effect (in relative terms) on both moderate and harmful consumption. Estimates above and to the left of this line indicate that the policy affects moderate drinkers more than harmful drinkers; estimates below and to the right of the line indicate the opposite effect. As can be seen for both minimum price policies in isolation and combined with an off-trade discount ban, estimates of consumption impacts lie below the line. Therefore even if it is considered

somehow appropriate to adjust the elasticities for harmful drinkers such that harmful drinkers become one third less responsive overall to price changes than moderate drinkers, the model results still show harmful drinkers as more responsive to minimum price policies. This effect arises because harmful drinkers are estimated from the EFS data to purchase more of the types of alcohol that is impacted by minimum price policies.



**Figure 3.8: Moderate versus heavy drinker effectiveness estimates for minimum price policies (inclusive and exclusive of an off-trade discount ban)**

### 3.2.3 Preferences for off-trade versus on-trade consumption

The newly available Scottish Nielsen data suggests that average preferences for off-trade beverages (i.e. the proportion of consumption that occurs in the off-trade) are lower than those suggested by the Scottish EFS data. The differences between Nielsen (2009) and EFS preferences have been narrowed compared to the earlier Nielsen (2007) data in the September 2009 report. If the Nielsen preferences are used, the estimated policy effectiveness would be reduced for minimum price and off-trade discount ban policies since the bulk of their impact is in the off-trade. Results for three example policies are shown below, and are a similar order of magnitude to those in the September 2009 report.

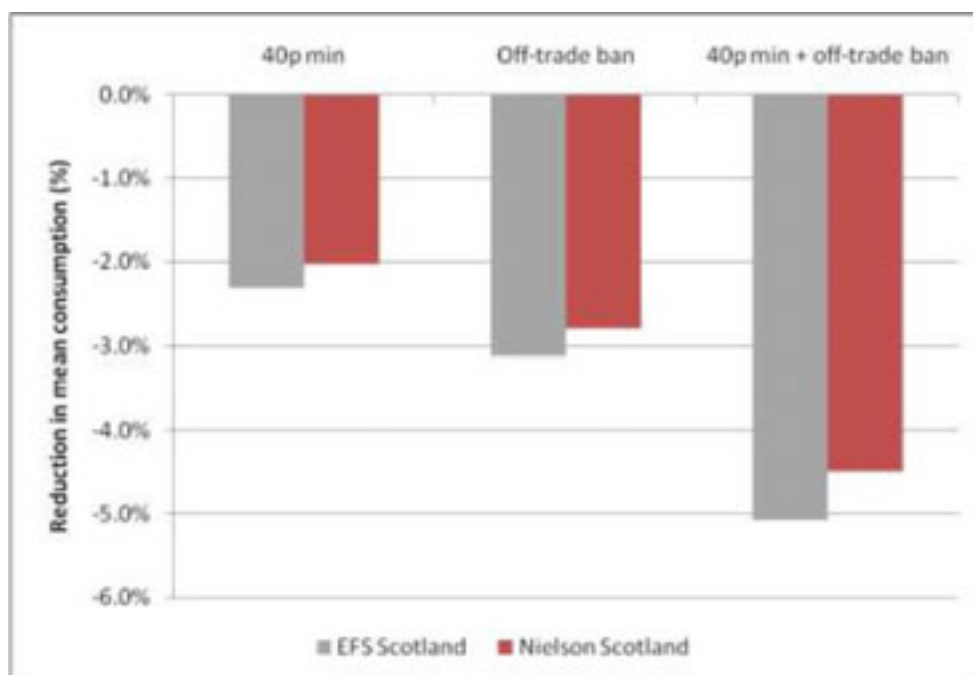


Figure 3.9: Impact of alternative assumptions for off-trade versus on-trade preferences

### 3.2.4 Protective effects of alcohol for coronary heart disease

As shown in Figure 3.10, the alternative risk functions for CHD (which assume a more protective effect of relatively moderate levels of alcohol consumption) have a small impact on net chronic illness savings from minimum price policies, in terms of both the overall population of Scotland and moderate Scottish drinkers. The effects are revised because new risk functions have been estimated based on the SHeS 2008 data. The results remain very similar to the September 2009 report. The difference in effect becomes larger at higher minimum prices (where the impact on consumption, and therefore impact on risk levels, is greater).

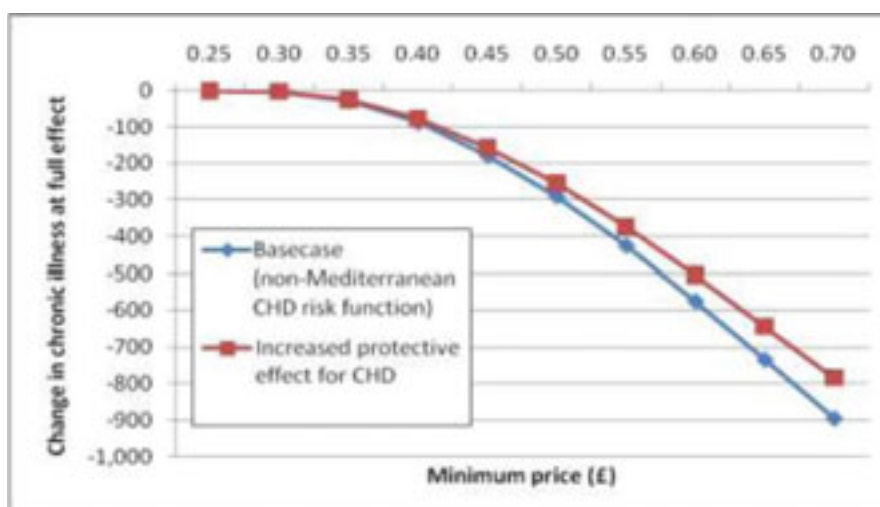


Figure 3.10: Change in prevalence of chronic illness in moderate drinkers for minimum price policies (using alternative risk functions for coronary heart disease)



### 3.2.5 Alternative crime AFs

Figure 3.11 shows the change in overall volume of crimes per year for each minimum pricing policy, using alternative assumptions for the attribution of crimes to alcohol consumption. The effects are revised because new risk functions have been estimated based on the SHeS 2008 data. Again, the results are broadly similar to the September 2009 report.

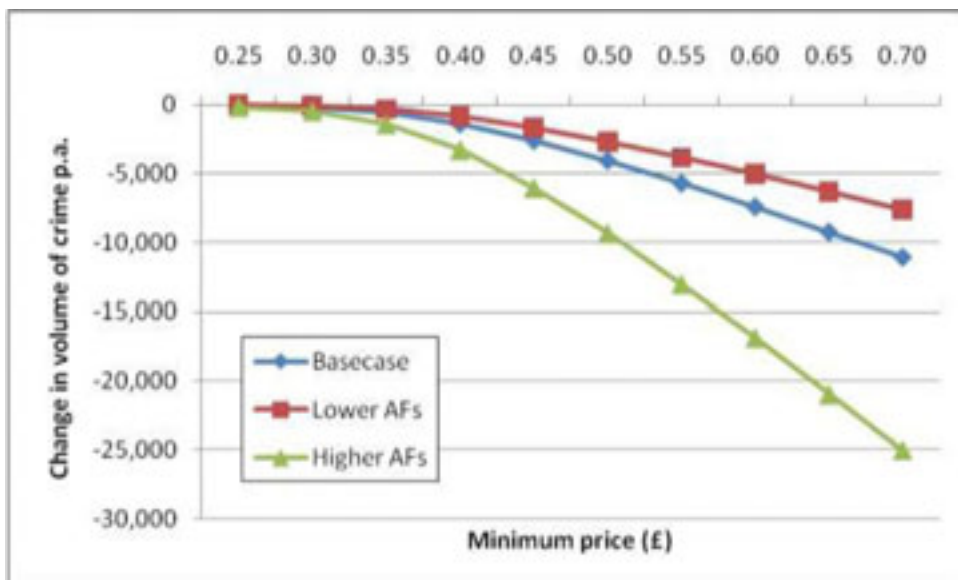


Figure 3.11: Change in overall volume of crimes per annum for minimum price policies, using alternative assumptions for the attribution of crimes to alcohol consumption

## 4 SUMMARY OF RESULTS AND DISCUSSION

This section summarises the key model findings, provides a brief comparison against previous results for Scotland and outlines the limitations of the study and recommendations for potential future research.

### 4.1 SUMMARY OF MODEL FINDINGS

#### Overview

- M1. This updated report, which incorporates data on alcohol consumption data from the 2008 Scottish Health Survey (SHeS) and the 2008 Scottish Schools Adolescent Lifestyle and Substance Use Survey (SALSUS), market research data on the 2008/09 price distribution of off-trade alcohol, and updated mortality (2008) and crime (2008/09) statistics, shows results which are broadly similar to those presented in the September 2009 Sheffield report.
- M2. Increasing levels of minimum pricing show steep increases in effectiveness.

Minimum Unit Price	% change in consumption	
	Minimum Price (only)	Minimum Unit Price plus Discount Ban
25p	-0.1%	-3.2%
30p	-0.3%	-3.4%
35p	-1.0%	-4.0%
40p	-2.3%	-5.1%
45p	-4.3%	-6.7%
50p	-6.7%	-8.7%
55p	-9.5%	-11.2%
60p	-12.3%	-13.7%
65p	-15.3%	-16.5%
70p	-18.4%	-19.5%

- M3. A total ban on off-trade discounting is estimated to change overall consumption by -3.1%. Note that the 'total ban' is assumed to prohibit all forms of price-based promotion, including straight discounting from list price in addition to multi-buy offers

(such as ‘buy three for the price of two’). Less restrictive types of ban have not been appraised because the market research data available to the study does not differentiate between types of price-based promotion. If the Scottish implementation of restrictions to off-trade discounting excludes particular types of discounting then the results reported here may overestimate the effectiveness of the policy.

- M4. At lower minimum price thresholds, the combined effect of an off-trade discount ban and a minimum price is close to the individual effects of the two policies added together. At higher minimum price thresholds, the marginal increased effectiveness of an off-trade discount ban is reduced.

### **Changes in levels of health, crime and workplace harm<sup>5</sup>**

- M5. Low minimum price thresholds (e.g. 25p per unit) have little impact at reducing harmful outcomes.
- M6. As the minimum price threshold increases, alcohol-related hospital admissions and deaths are estimated to reduce. For example, a 30p threshold plus discount ban is estimated to reduce annual admissions by 3,200 at full effect, compared to 4,800 and 8,400 for 40p and 50p thresholds, respectively. The majority of health harm reductions are in chronic diseases. This is because much alcohol-attributable health harm occurs in middle/older age groups at risk of developing and potentially dying from chronic disease. Most of the prevented deaths occur in harmful drinkers.
- M7. As the minimum price threshold increases, alcohol-related crimes are estimated to reduce: e.g. -3,100 offences per annum for a 40p threshold (with discount ban) compared to -5,300 offences per annum for a 50p threshold (with discount ban). Crime reductions take place across the spectrum of violent crime, criminal damage and acquisitive crimes.
- M8. Crime-related harms are estimated to reduce proportionately less than health-related harms: e.g. for a 50p minimum price with discount ban, hospital admissions at full effect are estimated to reduce by 13.8% whilst crimes reduce by 3.0%. This occurs because the population sub-groups most associated with alcohol-related crime –

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<sup>5</sup> Note that the example policies shown here have been changed from the 2009 report for better consistency with latter sections of the report and figures reported in the media. All examples refer to minimum price policies with an off-trade discount ban (rather than minimum price policies alone).

younger male drinkers – consume a greater proportion of their alcohol in the on-trade sector when compared to the population average, and therefore are less affected by policies such as minimum pricing which impact more in the off-trade sector.

- M9. As the minimum price threshold increases, absenteeism from work is estimated to reduce: a minimum price of 40p with discount ban is estimated to reduce days absent from work by approximately 30,500 per annum, whereas for 50p the reduction is estimated at 51,200.
- M10. As the minimum price threshold increases, unemployment due to alcohol problems is estimated to reduce (in the model unemployment is a risk factor only for harmful drinkers). For a 40p threshold (with discount ban), 1,200 avoided cases of unemployment are estimated per annum; for 50p the figure is 2,000. Note that the estimated unemployment effects are based on evidence of association studies, rather than detailed prospective analysis of the dynamic effects of employed people becoming unemployed as a consequence of their drinking behaviour, or of unemployed people becoming employed again as a consequence of reductions in alcohol consumption. The estimated effects make no assumption about the direction of these processes and there is no analysis of how the current economic climate might affect these findings.

### **Changes to consumer spending and retailer revenue**

- M11. Consumer spending is estimated to increase under all policies. For example, under a combined 40p minimum price with discount ban policy, overall spending increases by 4.4%.
- M12. Retailer revenue from the sale of alcoholic beverages is estimated to increase under all policies: the model predicts increases in both off-trade and on-trade sectors (excluding duty and VAT). Higher minimum prices lead to greater additional retail revenues; however the model does not provide a breakdown of the revenue across the supply chain. For a 40p minimum price with combined discount ban, total retailer revenue is estimated to increase by £113m per annum.
- M13. Effects on VAT and duty receipts are estimated to be relatively small, due to the counter-balancing nature of the two taxes: duty is applied to the volume of sales (which is reducing overall) but the VAT is applied to the monetary value of sales (which is increasing overall). For a 40p minimum price plus discount ban, total receipts are estimated to reduce by £10m.

### **Valuation of harm reductions**

- M14. As the minimum price threshold increases, the financial value of harm reductions increases<sup>6</sup>: the overall cumulative discounted financial value of harm reduction over ten years is estimated at £824m for a 40p minimum price plus discount ban policy; this valuation nearly doubles for a 50p threshold (£1.4bn). The valuation continues to increase steeply as the threshold is incremented.
- M15. The largest financially valued component of harm reduction is the estimated impact on health-related quality of life: for example, just over half of the total £824m harm reduction in the 40p minimum price plus discount ban scenario is from the financial valuation of health quality adjusted life years (using £50,000 per QALY).
- M16. As the minimum price threshold increases, crime costs are reduced: for example, direct costs of crime reduce by approximately £22m over ten years for a 40p minimum price plus discount ban compared to £38m for a 50p threshold. Similarly the value of the loss of victim quality of life changes from around £17m to £28m (using £81,000 per QALY).

### **Policy effects on different population sub-groups**

- M17. Those who buy the most alcohol are the most affected in both absolute and relative terms: changes in spending affect mostly harmful drinkers, with hazardous drinkers somewhat affected and spending for moderate drinkers affected very little. For example, for a 40p minimum price in combination with an off-trade discount ban, extra spending per drinker per annum for moderate, hazardous and harmful drinkers is estimated at £10, £55 and £126 respectively (corresponding to an average additional spend per week of £0.19 for moderate drinkers, £1.06 for hazardous drinkers and £2.42 for harmful drinkers).
- M18. For all minimum price scenarios, with or without the presence of an off-trade discount ban, the majority of the health and healthcare benefits come from the harmful drinking group (e.g. 41% of the reduction in hospital admissions estimated for a 40p minimum

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<sup>6</sup> The financial valuation includes direct health and social care cost savings, direct savings to the criminal justice system and victims, a financial attribution to the savings in quality adjusted life years (£50,000 for health-related QALYs and £81,000 for crime-related QALYS), and absence and unemployment savings based on average earnings.

price plus discount ban policy) even though these represent a small minority (6%) of all drinkers.

- M19. Reductions in crime are spread more evenly between the three drinker groups than for health-related outcomes. For example, for an off-trade discount ban, the reduction in crime volumes per annum is estimated to comprise 400 from moderate drinkers, 800 from hazardous drinkers and 800 from harmful drinkers.
- M20. The absolute contribution of the three drinker groups to reductions in days of absence is spread evenly across groups, e.g. a 40p minimum price plus off-trade discount ban has an estimated reduction in absenteeism of 9,300 days p.a. for moderate drinkers, 10,500 for hazardous drinkers and 10,300 for harmful drinkers. All reductions in unemployment arise from the harmful drinking group (since only this group is assumed in the model to be at risk of alcohol-attributable unemployment).
- M21. The majority of the estimated financial value of harm reduction comes from the reduction in harms associated with harmful drinkers. Of the £824m harm reduction estimated for a 40p minimum price in combination with a discount ban, just over half (£426m) is from harmful drinkers.

### **Comparison of previous and updated modelling results**

- M22. Compared to the SHeS 2003, the SHeS 2008 data suggest a slight reduction in mean alcohol consumption at the total population level. This is not the case for each age/sex group, with consumption for those under the age of 25, and especially young women, increasing significantly. At the beverage level, the consumption of beer/cider, wine and RTD decreased; while the consumption of spirits increased, especially for women.
- M23. The market research data available from Nielsen shows price distributions for alcohol which are marginally different from those estimated in our September 2009 report. Average prices paid are slightly higher, and the proportion of alcohol purchased which is bought inexpensively, for example at a price below 40p per unit, is slightly lower than in the September 2009 report.
- M24. The combined effect of the two points above is that the estimated effects of a particular policy are slightly smaller in this updated report both in terms of effects on alcohol consumption (e.g. 5.1% instead of 5.4% consumption reduction for a 40p minimum price combined with an off-trade discount ban) and the various measures of impact on alcohol-related harm.

## **4.2 LIMITATIONS**

### **4.2.1 Limitations in the model of the relationship between price and consumption**

#### **SHeS and SALSUS**

The model considers two patterns of alcohol consumption: average and heavy episodic drinking. Information on the frequency and volumes involved in the latter is somewhat restricted in the SHeS (measuring only amount consumed on the heaviest drinking day in the week prior to survey) and completely absent from the SALSUS. The consumption data used in the model are now updated to the 2008 data

#### **Prices**

Information on prices paid and proportions of spending in the off-trade and on-trade is also taken from a self-reported household survey – the Expenditure & Food Survey. Data relating to 13,531 individual purchasing transactions for alcohol by 2,858 Scottish residents are available over the period 2001/02 to 2005/06. However, we now have available more up to date market research data from 2009 providing price distributions for Scotland. This replaces the estimates of Scottish prices used in the September 2009 report, which were based on England & Wales data adjusted for the relationship between Scottish and English prices reported in the EFS.

As before, the model considers the broad beverage categories of beer/cider, wine, spirit and RTD but does not consider detailed effects on specific beverage types (e.g. whisky) or brands.

It is also important to recognise the limitations of both the off-trade and on-trade market research data for estimating price distributions in terms of ethanol consumption. The off-trade data requires alcoholic strength assumptions to be made at aggregated product categories (thereby smoothing out some of the actual price variability), whilst the on-trade data does overcome this issue by containing low-level ABV information but requires assumptions to be made about the relationship between the number of different types of beverage offered and the actual quantity of ethanol consumed.

#### **Promotions**

We have not been able to obtain additional data on discount promotions, beyond that used for the September 2009 report. Detailed quantitative information on the nature of price-

based promotions in the off-trade is generally quite limited. For England & Wales, data is available on the prevalence and magnitude of short-term discounts on alcoholic beverages in the large grocery chains. However no data is available on the magnitude of purchasing (e.g. 'buy 3 for the price of 2') that may be required to qualify for the discount. Therefore straight discounting from list price cannot be differentiated from volume-based incentives. Also, if larger pack sizes are available for a lower regular price per unit than smaller pack sizes this is not recognised in the data as a price-based promotion. Note that data on price-based promotions in the off-trade in Scotland was not available to this study and therefore the model assumes that the distribution and magnitudes of discounting in Scotland are the same as those in England (after adjusting for differences between the English and Scottish price distributions). Also, the prices from the EFS, used to estimate price elasticities of demand, cannot be identified as being promoted or otherwise. Therefore, the elasticities used in the model are a hybrid of pure price-based effect size and price-based promotion effect size. If consumers respond more to a price change induced by a promotion than a conventional change to list price – perhaps due to the impression that they are 'getting a bargain' – then the model might overestimate the effect of price rises resulting from a minimum price policy, but also underestimate the effect of restrictions to discounting. The final point on this issue is that the model does not consider the possibility that retailers might switch marketing tactics from discounting to 'every day low prices'.

### **Price Elasticities**

This report uses the same price elasticity matrices as the September 2009 report, which is based on econometric analysis of England EFS data (Purshouse et al. 2009a).

As before, the central limitation to the econometric modelling is the absence of a detailed longitudinal study of individuals' purchasing and consumption of alcohol. The EFS, which is cross-sectional and collects data on purchasing-only, is likely to remain the main UK dataset for the foreseeable future, and it is important to consider the suitability of the econometric methods for this data.

The econometric model used was a 17 equation system but remains a relatively simple approach – in particular, zero consumption observations are not modelled separately from non-zero observations. A zero value may arise, for example, due to an individual being an abstainer from alcohol (the effects of which could be taken into account with longitudinal data) or simply not consuming a particular type of beverage during the two week interview window. Whilst every individual in the modelled dataset is a consumer of alcohol (non-drinkers being excluded from the analysis), not all individuals consume across all 17



dependent variables. Thus zero observations are a feature of the data, particularly for less popular categories of beverage, e.g., lower-priced on-trade RTD. The estimation method used is most accurate when the consumption variables are continuously distributed; it does not account for this truncation of the consumption distribution, and if the zero values are non-randomly distributed then there is potential for inaccuracy in elasticity estimates. Practical methods to address this issue are still in development in the academic community.

Since ethanol consumption is the common risk factor examined for the health conditions considered, it is important to understand how prices affect the consumption of ethanol in units rather than simply expenditure on alcohol as a commodity. However focusing on the ethanol content and its relationship with price could ignore other confounding factors, such as individuals buy more of a good because of quality, or convenience, or the associated experience. We have tried to account for these factors either in the structure of the model or implicitly via the socioeconomic controls, e.g., in the absence of brand-level information, the econometric modelling attempted to account for quality through the higher-priced and lower-priced thresholds; in the absence of detailed information on point of purchase, the econometric modelling accounted for convenience through the off-trade/on-trade split.

The elasticities obtained represent average estimates across all price changes for the range of subgroups considered. Hence the variation in subgroup responsiveness to a price increase remains un-modelled.

#### **4.2.2 Limitations in the model of the relationship between consumption and harmful outcomes**

Limitations here relate to both the data specifically available for Scotland and also the general lack of evidence in the international literature around the relationship between alcohol consumption and certain outcomes of interest.

Mortality rates for Scotland have been updated but are still taken from a single year, which may introduce some estimation errors around conditions with a low prevalence. However, because of the low prevalence this is also unlikely to significantly impact on the overall results.

For crime, there is much uncertainty in the construction of a quantitative relationship between alcohol consumption and volumes of crime. From a theoretical perspective, an intoxication model is thought to capture most of the link between alcohol and crime (rather than, for example, a gainful model in which people steal in order to gain access to alcohol) for which the empirical evidence is based on self-attribution by offenders or urine/blood samples amongst arrestees. As before, the data used in the model (from the Offending Crime and

Justice Survey) relates to England & Wales rather than Scotland, and only covers ages up to 25 years. The sample size for the offences covered by the survey is quite small (particularly for under 16 year olds) and the results may be affected by the usual issues relating to population self-reported surveys.

Also as before, the unit costs of each type of crime considered in the modelling are based on evidence for England, since no cost estimates are available for Scotland.

We have now updated the baseline recorded crime volumes for Scotland.

The main change to the crime modelling is a shift to using newly available Scottish multipliers to estimate the actual volumes of crime from the crimes recorded. Previously Scottish multipliers were based on relatively small sample sizes and we utilised English versions. As before, the data coding of offences is different between the two countries, a bespoke mapping has had to be created between the coding systems, which may introduce matching errors.

#### **4.3 AREAS FOR POSSIBLE FUTURE RESEARCH**

Arguably, the most critical research programme that would benefit alcohol pricing and promotional policy research in the medium to long term would be the establishment of a longitudinal survey combining details of both alcohol purchasing and alcohol consumption.

A much more intensive economics based research programme than the current study could develop modelling approaches to account for the effects of actions taken by the industry in response to the policy options and the possible effects on the market structure and supply.

Further research on the application of alcohol econometrics to policy modelling including development and testing of alternative methods and models and validation against future data after real policy implementations is strongly recommended.

A future economic appraisal could also potentially extend to other exclusions from the current analysis, such as wider harms within or beyond health, crime and workplace sectors (such as healthcare costs to patients or their families, or the impact on educational prospects and future life course) and potential lost benefits (such as transitional costs to parts of industry, or lost consumer surplus). Such an appraisal might also consider equity issues, such as the overall impact of the policies on people of low incomes.

## REFERENCES

AC Nielsen, 2008, Data deliverables for 'Requirement specification for price and promotion distribution of alcohol sales in the off-trade'. © Nielsen 2008

Brennan A., Purshouse R, Taylor K & Rafia R, 2008, Independent review of the effects of pricing and promotion: Part B. Modelling the potential impact of pricing and promotion policies for alcohol in England. Results from the Sheffield Alcohol Policy Model version 2008 (1-1).

CGA Strategy, 2009, Data deliverables for 'Requirement specification for price and promotion distribution of alcohol sales in the on-trade'. © CGA Strategy 2009

MacLeod P, Page L, Kinver A & Iliasov A, 2009, 2008/09 Scottish crime and justice survey: first findings. Scottish Government Social Research.

Purshouse R, Brennan A, Latimer N, Meng Y, Rafia R, Jackson R & Meier P, 2009a, Modelling to assess the effectiveness and cost-effectiveness of public health related strategies and interventions to reduce alcohol attributable harm in England using the Sheffield Alcohol Policy Model version 2.0. Report to the NICE Public Health Programme Development Group. Draft for consultation.

Purshouse R, Meng Y, Rafia R, Brennan A & Meier P, 2009b, Model-based appraisal of alcohol minimum pricing and off-licensed trade discount bans in Scotland – A Scottish adaptation of the Sheffield Alcohol Policy Model version 2. Report to the Scottish Government. September 2009.

Scottish Government, 2009, Recorded crime in Scotland, 2008/09. Statistical Bulletin Crime and Justice Series.

Scottish Government, 2010. Nielsen Information.

<http://www.healthscotland.com/documents/3974.aspx> (last accessed 20 February 2010). © Nielsen 2009

## APPENDICES

### Appendix 1: Original English and mapped Scottish price ranges, used to estimate a price-based promotion distribution for Scotland

England price bins (£)		Scotland price bins (£)							
Lower [	Upper )	Beer [	Beer )	Wine [	Wine )	Spirit [	Spirit )	RTD [	RTD )
0.00	0.15	0.00	0.20	0.00	0.18	0.00	0.28	0.00	0.14
0.15	0.20	0.20	0.24	0.18	0.23	0.28	0.28	0.14	0.14
0.20	0.25	0.24	0.31	0.23	0.27	0.28	0.30	0.14	0.14
0.25	0.30	0.31	0.39	0.27	0.34	0.30	0.35	0.14	0.43
0.30	0.35	0.39	0.51	0.34	0.39	0.35	0.42	0.43	0.44
0.35	0.40	0.51	0.64	0.39	0.42	0.42	0.49	0.44	0.64
0.40	0.50	0.64	0.74	0.42	0.52	0.49	0.63	0.64	0.69
0.50	0.60	0.74	0.92	0.52	0.61	0.63	0.75	0.69	0.81
0.60	0.70	0.92	1.11	0.61	0.70	0.75	0.82	0.81	0.89
0.70	9999.00	1.11	9999.00	0.70	9999.00	0.82	9999.00	0.89	9999.00

**Appendix 2: Age/gender consumption distribution from the SHeS (2008) – Descriptive statistics**

Mean Intake the heaviest day	Consumption	18– 24 years		25 – 34 years		35 – 44 years		45 – 54 years		55 – 64 years		65 – 74 years		75 years +	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
Abstainers		6.83%	6.26%	9.60%	12.21%	11.35%	10.87%	8.99%	12.25%	9.44%	13.23%	16.20%	22.98%	20.98%	30.47%
Moderate	< 6 / 8 units	29.45%	32.48%	43.78%	50.10%	42.02%	48.80%	44.78%	54.14%	47.28%	60.56%	52.71%	63.99%	63.08%	65.62%
	≥ 8 / 6 units	15.41%	22.41%	19.31%	17.37%	16.09%	17.93%	14.06%	10.25%	11.96%	7.42%	5.98%	1.36%	1.86%	0.39%
Hazardous	< 6 / 8 units	8.94%	8.79%	3.76%	4.05%	9.31%	6.21%	9.69%	7.09%	14.55%	8.39%	14.14%	7.47%	11.46%	2.60%
	≥ 8 / 6 units	24.03%	18.39%	16.67%	12.83%	13.31%	12.17%	14.93%	12.55%	11.09%	8.51%	7.25%	2.00%	1.99%	0.06%
Harmful	< 6 / 8 units	4.24%	1.13%	1.67%	0.78%	2.52%	1.31%	0.80%	0.84%	0.93%	0.17%	1.25%	1.62%	0.39%	0.70%
	≥ 8 / 6 units	11.09%	10.54%	5.22%	2.66%	5.39%	2.71%	6.75%	2.88%	4.75%	1.72%	2.47%	0.58%	0.24%	0.15%
Total		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

**Table A2.1: Age and gender-specific distribution of drinking behaviour in adults in Scotland in 2008**

Intake the heaviest day	18– 24 years		25 – 34 years		35 – 44 years		45 – 54 years		55 – 64 years		65 – 74 years		75 years +	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Abstainers	6.83%	6.26%	9.60%	12.21%	11.35%	10.87%	8.99%	12.25%	9.44%	13.23%	16.20%	22.98%	20.98%	30.47%
< 6 / 8 units	42.63%	42.40%	49.21%	54.93%	53.86%	56.32%	55.26%	62.08%	62.77%	69.11%	68.11%	73.08%	74.93%	68.92%
≥ 8 / 6 units	50.54%	51.34%	41.20%	32.86%	34.80%	32.81%	35.74%	25.67%	27.79%	17.65%	15.70%	3.94%	4.08%	0.61%

**Table A2.2: Heavy episodic drinking in Scotland in 2008**

**Appendix 3: Statistical regression model: relationship between the scale of the binge and the mean daily consumption**

	IF (Moderate)	IF (Hazardous)	IF (Harmful)	
maximum unit drunk =				
<b>Moderate drinker</b>	1.861159	4.847359	-19.118770	male aged 18 – 24
	2.219495	3.301155	-19.046940	male aged 25 – 34
(mean daily intake)* 2.620626 + 0.676457	0.985958	0.491907	-14.039550	male aged 35 – 44
	0.682421	-0.384134	-16.940930	male aged 45 – 54
	-0.156146	-2.513361	-22.629390	male aged 55 – 64
<b>Hazardous drinker</b>	-0.689337	-4.053603	-24.121110	male aged 65 – 74
	-1.048665	-5.386171	-26.411420	male aged 75 +
(mean daily intake)* 1.101781 + 5.553086	-0.231705		7.983266	female aged 16 – 17
	2.005355	1.202590	-13.536370	female aged 18 – 24
	0.985416	0.490517	-17.829630	female aged 25 – 34
<b>Harmful drinker</b>	0.709011	-1.697843	-24.069220	female aged 35 – 44
	0.085814	-2.288948	-22.964000	female aged 45 – 54
(mean daily intake)* 0.727218 + 25.804970	-0.125954	-3.002688	-23.606010	female aged 55 – 64
	-0.596628	-5.180242	-25.344830	female aged 65 – 74
	-0.724101	-5.751020	-26.138900	female aged 75 +
R-Squared	0.3107	0.2003	0.3184	
Adjusted R-Squared	0.3084	0.1898	0.2768	
Root MSE	3.5147	6.1555	9.4844	

**Appendix 4: Risk functions for health conditions**

Conditions	11 – 15 years		16 - 17 years		18 - 24 years		25 - 34 years		35 - 44 years		45 - 54 years		55 - 64 years		65 - 74 years		75 + years		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Alcohol induced pseudo Cushing’s Syndrome	constant																		
	Slope																		
Wernicke’s encephalopathy	constant																		
	Slope																		
Mental and behavioural disorders due to use	constant				2.0E-05		2.1E-05	0.0E+00	2.3E-05	3.4E-05	2.5E-05	4.0E-05	3.6E-05	4.7E-05	4.6E-05	9.0E-05	1.2E-04	1.3E-04	
	Slope				1.0E-11		6.1E-06	0.0E+00	2.7E-05	1.5E-05	4.4E-05	3.5E-05	9.8E-05	5.6E-05	1.4E-04	1.4E-04	3.1E-04	2.1E-04	
Degeneration of nervous system due to alcohol	constant										1.1E-05								
	Slope										1.2E-07								
Alcoholic polyneuropathy	constant																		
	Slope																		
Alcoholic myopathy	constant																		
	Slope																		
Alcoholic cardiomyopathy	constant								0.0E+00	1.1E-05		1.1E-05	0.0E+00	1.9E-05		0.0E+00			
	Slope								0.0E+00	1.2E-07		6.9E-06	0.0E+00	3.3E-05		0.0E+00			
Alcoholic gastritis	constant									1.1E-05	0.0E+00	1.1E-05							
	Slope									1.2E-07	0.0E+00	3.9E-06							
Alcoholic liver disease	constant				1.0E-05	0.0E+00	2.0E-05	6.7E-05	4.8E-05	9.1E-05	1.1E-04	1.6E-04	1.4E-04	3.4E-04	2.4E-04	2.3E-04	1.3E-04	1.3E-04	
	Slope				1.0E-11	0.0E+00	4.3E-05	9.6E-05	1.9E-04	2.0E-04	4.6E-04	4.7E-04	6.0E-04	1.0E-03	8.8E-04	6.5E-04	5.3E-04	3.0E-04	
Alcohol induced chronic pancreatitis	constant								1.2E-05		0.0E+00	2.1E-05	1.0E-05				0.0E+00		
	Slope								5.1E-06		0.0E+00	1.0E-11	9.2E-07				0.0E+00		
Excessive blood level of alcohol	constant																		
	Slope																		
Toxic effect of alcohol	constant																		
	Slope																		
Accidental poisoning by and exposure to alcohol	constant																		
	Slope																		
Intentional self poisoning by, and exposure to alcohol	constant																		
	Slope																		
Poisoning by and exposure to alcohol, undetermined	constant																		
	Slope																		
Evidence of alcohol involvement determined	constant																		
	Slope																		
Evidence of alcohol involvement determined	constant																		
	Slope																		

**Table A4.1: Constant and slope of the linear absolute risk function for mortality for wholly attributable conditions**





	16 - 24 years		25 - 34 years		35 - 44 years		45 - 54 years		55 - 64 years		65 - 74 years		75 + years	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Pedestrian traffic accidents	0.13324	0.04158	0.20458	0.12667	0.23597	0.17992	0.09971	0.27180	0.16045	0.27180	0.24231	0.58531	0.83201	1.54799
Road traffic accidents - non pedestrian	0.13324	0.04158	0.20458	0.12667	0.23597	0.17992	0.09971	0.27180	0.16045	0.27180	0.24231	0.58531	0.83201	1.54799
Water transport injuries	0.09586	0.08510	0.12539	0.17073	0.14463	0.24250	0.12686	0.23732	0.20414	0.35925	0.40429	1.16534	1.38817	3.08203
Fall injuries	0.04411	0.03084	0.05770	0.06186	0.06656	0.15224	0.04389	0.19051	0.12235	0.16645	0.11715	0.13820	0.40225	0.36550
Occupational work/machine injuries	0.09586	0.08510	0.12539	0.17073	0.14463	0.24250	0.12686	0.23732	0.20414	0.35925	0.40429	1.16534	1.38817	3.08203
Firearm injuries	0.09586	0.08510	0.12539	0.17073	0.14463	0.24250	0.12686	0.23732	0.20414	0.35925	0.40429	1.16534	1.38817	3.08203
Drowning	0.02337	0.02830	0.03057	0.05678	0.03526	0.08065	0.04028	0.10093	0.06482	0.15279	0.12837	0.49561	0.44078	1.31075
Inhalation and ingestion of food causing obstruction of respiratory tract	0.09586	0.08510	0.12539	0.17073	0.14463	0.24250	0.12686	0.23732	0.20414	0.35925	0.40429	1.16534	1.38817	3.08203
Fire injuries	0.08798	0.10655	0.11508	0.21376	0.13273	0.30362	0.15164	0.37994	0.24401	0.57515	0.48325	1.86567	1.65929	4.93421
Accidental excessive cold	0.09586	0.08510	0.12539	0.17073	0.14463	0.24250	0.12686	0.23732	0.20414	0.35925	0.40429	1.16534	1.38817	3.08203
Accidental poisoning by and exposure to noxious substances	0.09586	0.08510	0.12539	0.17073	0.14463	0.24250	0.12686	0.23732	0.20414	0.35925	0.40429	1.16534	1.38817	3.08203
Intentional self-harm\Event of undetermined intent	0.04158	0.03084	0.05438	0.06186	0.06273	0.08787	0.05135	0.09211	0.08263	0.13943	0.16364	0.45228	0.22203	0.66025
Assault	0.03669	0.04443	0.11508	0.21376	0.13273	0.30362	0.15164	0.37994	0.24401	0.57515	0.48325	1.86567	1.65929	4.93421

**Table A4.3: Slope of the linear function for acute conditions partially attributable to alcohol**

**Appendix 5: Estimated number of offences per annum, by offence category, gender and age group**

Conditions	11 – 15 yrs		16 – 17 yrs		18 – 24 yrs		25 – 34 yrs		35 – 44 yrs		45 – 54 yrs		55 – 64 yrs		65 – 74 yrs		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Serious assault, other non-sexual crimes of violence	2,567	981	1,308	218	4,580	763	2,567	453	377	75	208	42	113	23	57	11	11,776	2,567
Robbery	1,600	457	660	51	2,312	178	915	0	0	0	0	0	0	0	0	0	5,487	686
Total sexual offences	8,230	0	2,439	0	8,535	0	8,230	0	2,743	0	1,509	0	823	0	412	0	32,921	0
Housebreaking - Domestic dwelling	4,880	563	1,877	125	6,570	438	3,942	188	188	0	103	0	56	0	28	0	17,644	1,314
Housebreaking - Domestic non-dwelling & other	5,375	620	2,067	138	7,236	482	4,341	207	207	0	114	0	62	0	31	0	19,433	1,447
Theft from a motor vehicle	2,462	1,581	1,094	419	3,830	1,466	2,918	973	274	91	150	50	82	27	41	14	10,851	4,620
Theft of a motor vehicle	1,998	1,283	888	340	3,108	1,189	2,368	789	222	74	122	41	67	22	33	11	8,806	3,749
Shoplifting	509,998	327,406	226,666	86,749	793,330	303,620	604,442	201,481	56,666	18,889	31,167	10,389	17,000	5,667	8,500	2,833	2,247,767	957,033
Other theft	37,030	23,772	16,458	6,299	57,602	22,045	43,887	14,629	4,114	1,371	2,263	754	1,234	411	617	206	163,205	69,488
Fire-raising	3,377	724	1,019	107	3,565	375	1,689	241	241	0	133	0	72	0	36	0	10,132	1,447
Vandalism etc	74,019	15,861	22,323	2,350	78,132	8,224	37,010	5,287	5,287	0	2,908	0	1,586	0	793	0	222,058	31,723
Minor assault	30,534	11,675	15,566	2,594	54,482	9,080	30,534	5,388	4,490	898	2,470	494	1,347	269	674	135	140,096	30,534

**Appendix 6: Slope of relative risk functions, split by offence category and OCJS gender and age sub-groups**

Offences	AAF used	Male		Female	
		Under 16 years old	16 years and over	Under 16 years old	16 years and over
Serious assault, other non-sexual crimes of violence	Assault with injury	0.009012	0.030501	0.020121	0.032972
Robbery	Other thefts	0.001712	0.005912	0.006214	0.004338
Total sexual offences	All violent offences	0.005054	0.032079	0.014085	0.030833
Housebreaking - Domestic dwelling	Other thefts	0.001712	0.005912	0.006214	0.004338
Housebreaking - Domestic non-dwelling & other	Other thefts	0.001712	0.005912	0.006214	0.004338
Theft from a motor vehicle	Vehicle related thefts	0.000000	0.011463	0.105634	0.120211
Theft of a motor vehicle	Vehicle related thefts	0.000000	0.011463	0.105634	0.120211
Shoplifting	Other thefts	0.001712	0.005912	0.006214	0.004338
Other theft	Other thefts	0.001712	0.005912	0.006214	0.004338
Fire-raising	Criminal damage	0.011323	0.105856	0.038854	0.085483
Vandalism etc	Criminal damage	0.011323	0.105856	0.038854	0.085483
Minor assault	Assault without injury	0.002181	0.033917	0.008048	0.028378

**Appendix 7: Slope for relative risk functions for absenteeism and unemployment, split by gender and age group**

Age (years)	Absenteeism		Unemployment	
	Male	Female	Male	Female
16 – 17	0.035755	0.044453	0.001423	0.002898
18 – 24	0.023973	0.020781	0.024059	0.014362
25 – 34	0.031112	0.027727	0.088569	0.079328
35 – 44	0.021667	0.022783	0.080158	0.036589
45 – 54	0.017421	0.015406	0.052558	0.062424
55 – 64	0.015408	0.001844	0.015348	0.018264

**Appendix 8: Summary tables for sensitivity analysis – moderate versus heavy drinkers**

SUMMARY - TOTAL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in spend p.a. if no change in consump.
1 Minimum price 25p	-0.1%	-1.0	+0.1	+0.1	+0.0	-0.8	+4.1	+1.7	-0.0	+0.5	+6.4	+0.3%	+1.68	+1.28
2 Minimum price 30p	-0.3%	-2.4	+0.1	+0.0	+0.0	-2.2	+10.3	+4.1	-0.3	+1.2	+15.3	+0.6%	+4.03	+3.46
3 Minimum price 35p	-0.8%	-3.7	-0.3	-1.9	+0.0	-5.9	+24.2	+8.0	-1.5	+2.4	+33.2	+1.4%	+8.75	+8.64
4 Minimum price 40p	-1.6%	-5.3	-1.7	-5.7	+0.1	-12.7	+47.8	+13.3	-3.8	+4.0	+61.4	+2.6%	+16.21	+18.11
5 Minimum price 45p	-2.9%	-7.1	-5.1	-10.6	+0.1	-22.6	+80.3	+19.4	-7.1	+5.9	+98.5	+4.2%	+26.00	+32.15
6 Minimum price 50p	-4.4%	-9.0	-9.6	-16.0	+0.1	-34.5	+115.9	+26.0	-11.3	+7.8	+138.4	+5.9%	+36.53	+48.91
7 Minimum price 55p	-6.2%	-11.1	-15.5	-21.8	+0.1	-48.3	+153.7	+33.0	-16.6	+9.9	+180.1	+7.7%	+47.52	+68.41
8 Minimum price 60p	-8.1%	-13.4	-21.8	-28.0	+0.1	-63.1	+189.9	+40.8	-22.8	+12.1	+220.1	+9.4%	+58.08	+89.53
9 Minimum price 65p	-10.1%	-15.8	-28.9	-34.3	+0.1	-78.9	+223.6	+49.9	-30.1	+14.5	+257.9	+11.0%	+68.07	+112.28
10 Minimum price 70p	-12.2%	-18.4	-36.1	-40.8	+0.0	-95.3	+253.2	+59.9	-38.3	+17.0	+291.7	+12.4%	+76.99	+136.04
11 Total off-trade discount ban	-2.0%	-3.5	-9.2	-2.5	-0.1	-15.4	+59.8	+5.7	-2.1	+1.7	+65.2	+2.8%	+17.20	+24.03
12 Minimum price 25p + total off-t discount ban	-2.1%	-4.3	-9.2	-2.4	-0.1	-16.0	+62.9	+7.1	-2.1	+2.2	+70.1	+3.0%	+18.50	+25.07
13 Minimum price 30p + total off-t discount ban	-2.2%	-5.3	-9.2	-2.5	-0.1	-17.1	+67.4	+8.9	-2.4	+2.7	+76.6	+3.3%	+20.22	+26.72
14 Minimum price 35p + total off-t discount ban	-2.6%	-6.3	-9.5	-4.3	-0.1	-20.2	+78.3	+12.3	-3.5	+3.7	+90.7	+3.9%	+23.95	+30.90
15 Minimum price 40p + total off-t discount ban	-3.3%	-7.3	-10.7	-7.8	-0.0	-25.9	+96.8	+16.9	-5.7	+5.1	+113.1	+4.8%	+29.86	+38.62
16 Minimum price 45p + total off-t discount ban	-4.4%	-8.6	-13.3	-12.1	-0.0	-34.0	+121.5	+22.4	-8.9	+6.8	+141.8	+6.0%	+37.41	+49.94
17 Minimum price 50p + total off-t discount ban	-5.6%	-10.2	-16.8	-17.0	+0.0	-44.1	+149.2	+28.4	-13.0	+8.6	+173.3	+7.4%	+45.72	+63.91
18 Minimum price 55p + total off-t discount ban	-7.2%	-12.0	-21.6	-22.5	+0.0	-56.0	+179.3	+35.0	-18.1	+10.5	+206.8	+8.8%	+54.58	+80.63
19 Minimum price 60p + total off-t discount ban	-8.9%	-14.0	-27.1	-28.5	+0.0	-69.5	+209.9	+42.5	-24.2	+12.6	+240.8	+10.2%	+63.54	+99.67
20 Minimum price 65p + total off-t discount ban	-10.8%	-16.2	-33.4	-34.7	-0.0	-84.3	+239.3	+51.3	-31.5	+14.9	+274.0	+11.7%	+72.32	+120.93
21 Minimum price 70p + total off-t discount ban	-12.8%	-18.6	-40.2	-41.2	-0.0	-100.0	+265.5	+61.1	-39.7	+17.4	+304.2	+12.9%	+80.28	+143.52

**Table A8.1: Summary tables for sensitivity analysis – moderate versus heavy drinkers – consumption analysis – overall population**

SUMMARY - MODERATE	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	+0.0%	-0.2	+0.1	+0.1	+0.0	+0.0	+0.7	+0.7	+0.0	+0.2	+1.7	+0.2%	+0.69	+0.29
2 Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.1	+1.7	+1.7	-0.0	+0.5	+3.8	+0.5%	+1.51	+0.77
3 Minimum price 35p	-0.3%	-0.2	-0.1	-0.6	+0.0	-1.0	+4.0	+3.3	-0.4	+1.0	+7.9	+1.0%	+3.11	+2.06
4 Minimum price 40p	-0.9%	-0.0	-0.8	-2.1	+0.0	-2.9	+7.9	+5.5	-1.2	+1.6	+13.8	+1.8%	+5.46	+4.55
5 Minimum price 45p	-2.0%	+0.2	-2.5	-3.9	+0.0	-6.2	+13.5	+8.0	-2.4	+2.4	+21.5	+2.8%	+8.48	+8.58
6 Minimum price 50p	-3.3%	+0.3	-4.9	-5.8	+0.0	-10.4	+19.8	+10.7	-3.9	+3.2	+29.7	+3.8%	+11.71	+13.66
7 Minimum price 55p	-5.0%	+0.4	-8.1	-8.1	+0.1	-15.7	+26.7	+13.5	-5.9	+4.0	+38.3	+4.9%	+15.12	+19.98
8 Minimum price 60p	-6.8%	+0.4	-11.5	-10.5	+0.1	-21.5	+33.0	+16.5	-8.2	+4.9	+46.3	+5.9%	+18.25	+26.91
9 Minimum price 65p	-8.8%	+0.4	-15.4	-13.0	+0.1	-27.9	+38.7	+19.9	-10.9	+5.8	+53.5	+6.9%	+21.12	+34.59
10 Minimum price 70p	-10.9%	+0.4	-19.4	-15.6	+0.1	-34.5	+43.1	+23.6	-13.8	+6.8	+59.6	+7.6%	+23.52	+42.62
11 Total off-trade discount ban	-2.1%	-0.4	-5.1	-0.9	-0.0	-6.5	+12.3	+2.3	-1.4	+0.7	+13.9	+1.8%	+5.47	+8.43
12 Minimum price 25p + total off-t discount ban	-2.1%	-0.6	-5.0	-0.9	-0.0	-6.5	+12.9	+2.9	-1.4	+0.9	+15.3	+2.0%	+6.03	+8.68
13 Minimum price 30p + total off-t discount ban	-2.1%	-0.7	-5.1	-0.9	-0.0	-6.7	+13.6	+3.6	-1.4	+1.1	+16.9	+2.2%	+6.67	+9.06
14 Minimum price 35p + total off-t discount ban	-2.3%	-0.6	-5.3	-1.5	-0.0	-7.4	+15.5	+5.0	-1.8	+1.5	+20.3	+2.6%	+8.00	+10.16
15 Minimum price 40p + total off-t discount ban	-2.9%	-0.4	-5.8	-2.9	+0.0	-9.1	+18.7	+7.0	-2.5	+2.1	+25.2	+3.2%	+9.96	+12.27
16 Minimum price 45p + total off-t discount ban	-3.7%	-0.2	-7.1	-4.5	+0.0	-11.8	+22.9	+9.2	-3.6	+2.8	+31.3	+4.0%	+12.33	+15.52
17 Minimum price 50p + total off-t discount ban	-4.8%	+0.0	-8.9	-6.3	+0.0	-15.2	+27.5	+11.7	-5.0	+3.5	+37.6	+4.8%	+14.84	+19.68
18 Minimum price 55p + total off-t discount ban	-6.2%	+0.2	-11.5	-8.4	+0.0	-19.7	+32.6	+14.4	-6.9	+4.3	+44.4	+5.7%	+17.50	+24.98
19 Minimum price 60p + total off-t discount ban	-7.9%	+0.3	-14.4	-10.7	+0.0	-24.9	+37.5	+17.3	-9.1	+5.1	+50.8	+6.5%	+20.04	+31.11
20 Minimum price 65p + total off-t discount ban	-9.7%	+0.3	-17.9	-13.2	+0.0	-30.8	+42.0	+20.6	-11.7	+6.0	+56.8	+7.3%	+22.41	+38.18
21 Minimum price 70p + total off-t discount ban	-11.7%	+0.4	-21.6	-15.8	+0.1	-37.0	+45.5	+24.1	-14.6	+6.9	+61.9	+7.9%	+24.43	+45.75

Table A8.2: Summary tables for sensitivity analysis – moderate versus heavy drinkers – consumption analysis – moderate drinkers

SUMMARY - HAZARDOUS	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	-0.0%	-1.0	+0.2	+0.2	+0.0	-0.6	+1.4	+0.7	+0.0	+0.2	+2.3	+0.3%	+2.76	+1.88
2 Minimum price 30p	-0.2%	-2.8	+0.2	+0.0	+0.0	-2.5	+3.7	+1.6	-0.0	+0.5	+5.8	+0.6%	+6.82	+5.45
3 Minimum price 35p	-0.5%	-4.6	-0.3	-2.5	+0.1	-7.3	+8.8	+3.0	-0.2	+0.9	+12.5	+1.3%	+14.72	+13.66
4 Minimum price 40p	-1.2%	-6.7	-3.0	-7.9	+0.1	-17.4	+18.4	+4.9	-0.8	+1.5	+24.0	+2.6%	+28.32	+30.11
5 Minimum price 45p	-2.3%	-9.3	-9.3	-14.9	+0.1	-33.3	+32.5	+7.1	-1.6	+2.2	+40.2	+4.3%	+47.44	+55.94
6 Minimum price 50p	-3.7%	-11.9	-17.8	-23.1	+0.1	-52.7	+48.6	+9.5	-2.7	+2.9	+58.4	+6.3%	+68.88	+87.44
7 Minimum price 55p	-5.3%	-14.8	-28.6	-32.1	+0.1	-75.4	+66.0	+12.1	-4.0	+3.7	+77.8	+8.4%	+91.75	+124.10
8 Minimum price 60p	-7.0%	-18.1	-40.3	-41.5	+0.1	-99.7	+83.0	+15.1	-5.8	+4.5	+96.8	+10.4%	+114.18	+163.70
9 Minimum price 65p	-8.8%	-21.5	-52.8	-51.2	+0.1	-125.4	+99.2	+18.5	-7.8	+5.4	+115.4	+12.4%	+136.05	+206.13
10 Minimum price 70p	-10.7%	-25.4	-65.8	-61.2	+0.1	-152.3	+114.0	+22.4	-10.3	+6.4	+132.6	+14.2%	+156.32	+250.57
11 Total off-trade discount ban	-1.8%	-5.6	-16.1	-4.4	-0.1	-26.1	+26.2	+2.1	-0.3	+0.7	+28.7	+3.1%	+33.89	+45.39
12 Minimum price 25p + total off-t discount ban	-1.9%	-6.3	-16.0	-4.2	-0.1	-26.6	+27.3	+2.7	-0.3	+0.8	+30.6	+3.3%	+36.04	+46.92
13 Minimum price 30p + total off-t discount ban	-2.0%	-7.5	-16.0	-4.4	-0.1	-28.0	+28.9	+3.4	-0.3	+1.1	+33.1	+3.6%	+39.01	+49.58
14 Minimum price 35p + total off-t discount ban	-2.2%	-8.7	-16.4	-6.7	-0.0	-31.9	+32.9	+4.6	-0.5	+1.4	+38.4	+4.1%	+45.24	+56.12
15 Minimum price 40p + total off-t discount ban	-2.8%	-10.0	-18.6	-11.6	-0.0	-40.1	+40.3	+6.3	-1.1	+1.9	+47.4	+5.1%	+55.88	+69.27
16 Minimum price 45p + total off-t discount ban	-3.7%	-11.8	-23.3	-17.8	+0.0	-52.8	+50.8	+8.2	-1.9	+2.5	+59.7	+6.4%	+70.42	+89.65
17 Minimum price 50p + total off-t discount ban	-4.8%	-13.9	-30.0	-25.1	+0.0	-68.9	+63.3	+10.4	-3.0	+3.2	+74.0	+7.9%	+87.19	+115.47
18 Minimum price 55p + total off-t discount ban	-6.2%	-16.3	-38.7	-33.3	+0.0	-88.2	+77.2	+12.8	-4.4	+3.9	+89.6	+9.6%	+105.64	+146.57
19 Minimum price 60p + total off-t discount ban	-7.7%	-19.1	-48.9	-42.4	+0.0	-110.2	+91.6	+15.6	-6.1	+4.7	+105.9	+11.4%	+124.83	+182.13
20 Minimum price 65p + total off-t discount ban	-9.4%	-22.1	-60.3	-51.9	+0.0	-134.4	+106.0	+19.0	-8.2	+5.6	+122.4	+13.1%	+144.31	+221.73
21 Minimum price 70p + total off-t discount ban	-11.2%	-25.7	-72.4	-61.9	-0.0	-160.0	+119.3	+22.8	-10.7	+6.5	+138.0	+14.8%	+162.75	+263.96

Table A8.3: Summary tables for sensitivity analysis – moderate versus heavy drinkers – consumption analysis – hazardous drinkers

SUMMARY - HARMFUL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	Policy Scenario	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.
1 Minimum price 25p	-0.3%	-10.2	-0.2	+0.3	+0.0	-10.1	+2.0	+0.3	-0.1	+0.1	+2.2	+0.4%	+9.35	+10.38
2 Minimum price 30p	-0.7%	-23.9	-0.4	-0.7	+0.1	-25.0	+4.9	+0.7	-0.3	+0.2	+5.5	+0.9%	+23.05	+27.04
3 Minimum price 35p	-1.5%	-40.3	-1.9	-14.2	+0.2	-56.2	+11.3	+1.6	-0.8	+0.5	+12.5	+2.1%	+52.11	+65.45
4 Minimum price 40p	-2.8%	-59.0	-8.0	-39.1	+0.3	-105.8	+21.2	+2.7	-1.8	+0.8	+23.0	+3.8%	+95.79	+129.00
5 Minimum price 45p	-4.5%	-79.6	-20.3	-70.7	+0.4	-170.1	+33.7	+4.0	-3.0	+1.2	+35.9	+6.0%	+149.53	+214.63
6 Minimum price 50p	-6.5%	-101.6	-35.9	-105.0	+0.6	-241.9	+46.6	+5.4	-4.5	+1.6	+49.1	+8.2%	+204.44	+311.61
7 Minimum price 55p	-8.6%	-124.9	-55.5	-141.0	+0.6	-320.7	+59.7	+6.9	-6.3	+2.0	+62.3	+10.4%	+259.62	+419.97
8 Minimum price 60p	-10.8%	-149.3	-77.1	-177.8	+0.2	-404.0	+72.3	+8.6	-8.4	+2.5	+75.0	+12.5%	+312.64	+536.82
9 Minimum price 65p	-13.1%	-174.9	-101.1	-215.3	-0.2	-491.5	+83.9	+10.7	-10.8	+3.0	+86.8	+14.5%	+361.58	+660.82
10 Minimum price 70p	-15.5%	-201.4	-125.9	-253.5	-0.9	-581.7	+94.1	+12.9	-13.5	+3.6	+97.1	+16.2%	+404.40	+789.78
11 Total off-trade discount ban	-2.1%	-30.3	-32.8	-13.9	-0.6	-77.6	+20.6	+1.2	-0.3	+0.4	+21.8	+3.6%	+90.99	+124.91
12 Minimum price 25p + total off-t discount ban	-2.3%	-38.4	-33.1	-13.7	-0.6	-85.8	+22.0	+1.4	-0.4	+0.4	+23.5	+3.9%	+97.96	+133.26
13 Minimum price 30p + total off-t discount ban	-2.6%	-48.6	-33.5	-14.7	-0.6	-97.4	+24.1	+1.8	-0.6	+0.5	+25.8	+4.3%	+107.60	+145.77
14 Minimum price 35p + total off-t discount ban	-3.3%	-60.7	-34.8	-27.1	-0.5	-123.1	+29.0	+2.5	-1.1	+0.8	+31.1	+5.2%	+129.72	+176.32
15 Minimum price 40p + total off-t discount ban	-4.4%	-74.9	-39.9	-49.7	-0.4	-164.9	+36.8	+3.5	-2.0	+1.1	+39.3	+6.6%	+163.88	+228.48
16 Minimum price 45p + total off-t discount ban	-5.9%	-91.6	-49.4	-78.0	-0.3	-219.3	+46.6	+4.6	-3.2	+1.4	+49.4	+8.2%	+205.69	+299.06
17 Minimum price 50p + total off-t discount ban	-7.5%	-110.4	-62.0	-109.5	-0.2	-282.1	+57.0	+5.9	-4.7	+1.8	+60.0	+10.0%	+249.93	+382.15
18 Minimum price 55p + total off-t discount ban	-9.4%	-131.0	-78.1	-143.5	-0.1	-352.7	+67.9	+7.3	-6.5	+2.2	+70.9	+11.8%	+295.48	+477.62
19 Minimum price 60p + total off-t discount ban	-11.5%	-153.1	-97.0	-179.6	-0.5	-430.2	+78.9	+9.0	-8.6	+2.6	+81.9	+13.6%	+341.19	+584.73
20 Minimum price 65p + total off-t discount ban	-13.7%	-177.0	-118.8	-216.8	-0.9	-513.6	+89.2	+11.0	-11.0	+3.1	+92.3	+15.4%	+384.73	+701.84
21 Minimum price 70p + total off-t discount ban	-16.0%	-202.5	-141.9	-254.7	-1.5	-600.6	+98.5	+13.2	-13.7	+3.6	+101.6	+16.9%	+423.20	+825.25

Table A8.4: Summary tables for sensitivity analysis – moderate versus heavy drinkers – consumption analysis – harmful drinkers



SUMMARY - TOTAL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+5	-0.0	+0.0	+0.0	+0.0	+1	-0.0	+0.1	-0.0	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.5	-0.0
2 Minimum price 30p	+0	-0.0	+0.0	-0.0	-0.0	-11	-0.1	+0.0	-0.2	-0.2	-0.0	-0.0	-0.1	-0.1	-0.0	-1.5	-0.1
3 Minimum price 35p	-7	-0.0	-0.1	-0.2	-0.0	-38	-0.3	-0.1	-0.7	-1.2	-0.0	-0.1	-0.2	-0.4	-0.0	-4.0	-0.2
4 Minimum price 40p	-19	-0.1	-0.3	-0.5	-0.1	-85	-0.6	-0.4	-1.6	-2.8	-0.1	-0.3	-0.5	-0.9	-0.0	-9.0	-0.4
5 Minimum price 45p	-36	-0.1	-0.6	-0.9	-0.2	-151	-1.1	-0.7	-2.9	-5.2	-0.2	-0.6	-0.9	-1.7	-0.0	-16.9	-0.7
6 Minimum price 50p	-56	-0.2	-1.0	-1.4	-0.3	-228	-1.7	-1.1	-4.4	-8.0	-0.4	-1.0	-1.3	-2.7	-0.0	-26.5	-1.0
7 Minimum price 55p	-80	-0.2	-1.4	-2.0	-0.5	-315	-2.4	-1.5	-6.2	-11.2	-0.5	-1.4	-1.9	-3.8	-0.0	-38.2	-1.3
8 Minimum price 60p	-105	-0.3	-1.8	-2.7	-0.6	-406	-3.1	-2.0	-8.1	-14.7	-0.7	-1.8	-2.5	-5.0	-0.0	-50.8	-1.6
9 Minimum price 65p	-131	-0.4	-2.3	-3.4	-0.8	-502	-3.8	-2.5	-10.1	-18.3	-0.9	-2.3	-3.1	-6.3	-0.0	-64.5	-2.0
10 Minimum price 70p	-158	-0.4	-2.8	-4.1	-1.0	-600	-4.6	-3.1	-12.1	-22.1	-1.1	-2.8	-3.8	-7.6	-0.1	-78.8	-2.3
11 Total off-trade discount ban	-25	-0.1	-0.5	-0.7	-0.2	-96	-0.7	-0.5	-1.9	-3.6	-0.2	-0.5	-0.7	-1.4	-0.0	-14.6	-0.3
12 Minimum price 25p + total off-t discount ban	-25	-0.1	-0.5	-0.7	-0.2	-100	-0.7	-0.5	-2.0	-3.7	-0.2	-0.5	-0.7	-1.4	-0.0	-15.1	-0.4
13 Minimum price 30p + total off-t discount ban	-27	-0.1	-0.5	-0.7	-0.2	-107	-0.8	-0.5	-2.1	-3.9	-0.2	-0.5	-0.7	-1.5	-0.0	-15.9	-0.4
14 Minimum price 35p + total off-t discount ban	-32	-0.1	-0.6	-0.8	-0.2	-127	-0.9	-0.6	-2.5	-4.6	-0.2	-0.6	-0.8	-1.7	-0.0	-18.0	-0.5
15 Minimum price 40p + total off-t discount ban	-41	-0.1	-0.7	-1.1	-0.3	-164	-1.2	-0.8	-3.2	-5.9	-0.3	-0.8	-1.0	-2.1	-0.0	-22.2	-0.7
16 Minimum price 45p + total off-t discount ban	-55	-0.2	-1.0	-1.4	-0.3	-218	-1.6	-1.0	-4.3	-7.8	-0.4	-1.0	-1.4	-2.7	-0.0	-28.5	-0.9
17 Minimum price 50p + total off-t discount ban	-72	-0.2	-1.3	-1.8	-0.4	-283	-2.1	-1.4	-5.6	-10.2	-0.5	-1.3	-1.8	-3.5	-0.0	-36.5	-1.2
18 Minimum price 55p + total off-t discount ban	-92	-0.3	-1.6	-2.4	-0.6	-357	-2.7	-1.8	-7.1	-12.9	-0.6	-1.6	-2.2	-4.5	-0.0	-46.4	-1.5
19 Minimum price 60p + total off-t discount ban	-115	-0.3	-2.0	-2.9	-0.7	-441	-3.3	-2.2	-8.8	-16.1	-0.8	-2.0	-2.8	-5.6	-0.0	-57.7	-1.8
20 Minimum price 65p + total off-t discount ban	-140	-0.4	-2.5	-3.6	-0.9	-531	-4.0	-2.7	-10.7	-19.6	-1.0	-2.4	-3.4	-6.8	-0.0	-70.5	-2.1
21 Minimum price 70p + total off-t discount ban	-164	-0.5	-3.0	-4.3	-1.0	-622	-4.7	-3.2	-12.6	-23.1	-1.1	-2.9	-4.0	-8.1	-0.1	-83.9	-2.4

Table A8.5: Summary tables for sensitivity analysis – moderate versus heavy drinkers – harm analysis – overall population

SUMMARY - MODERATE	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
Policy Scenario																	
1 Minimum price 25p	+5	+0.0	+0.1	+0.1	+0.0	+5	-0.0	+0.1	+0.1	+0.3	+0.0	+0.0	+0.0	+0.0	+0.0	-0.0	+0.0
2 Minimum price 30p	+3	-0.0	+0.0	+0.0	+0.0	+3	-0.0	+0.0	+0.0	+0.1	+0.0	+0.0	+0.0	+0.0	-0.2	+0.0	
3 Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-1	-0.0	-0.0	-0.1	-0.2	+0.0	+0.0	+0.0	+0.1	+0.0	-0.8	+0.0
4 Minimum price 40p	-5	-0.0	-0.1	-0.2	-0.0	-7	-0.1	-0.1	-0.3	-0.8	+0.0	+0.0	+0.0	+0.1	+0.0	-2.3	+0.0
5 Minimum price 45p	-12	-0.0	-0.3	-0.3	-0.1	-15	-0.2	-0.3	-0.6	-1.6	-0.0	-0.0	-0.0	-0.1	-0.0	-5.2	+0.0
6 Minimum price 50p	-19	-0.0	-0.4	-0.5	-0.1	-24	-0.3	-0.5	-1.1	-2.5	-0.0	-0.1	-0.1	-0.2	-0.0	-9.1	+0.0
7 Minimum price 55p	-29	-0.0	-0.7	-0.8	-0.2	-36	-0.4	-0.7	-1.6	-3.7	-0.1	-0.1	-0.2	-0.4	-0.0	-14.2	+0.0
8 Minimum price 60p	-39	-0.1	-0.9	-1.1	-0.3	-48	-0.6	-1.0	-2.1	-5.0	-0.1	-0.2	-0.4	-0.7	-0.0	-19.7	+0.0
9 Minimum price 65p	-49	-0.1	-1.1	-1.4	-0.3	-60	-0.8	-1.2	-2.7	-6.4	-0.2	-0.3	-0.5	-1.0	-0.0	-25.9	+0.0
10 Minimum price 70p	-60	-0.1	-1.4	-1.7	-0.4	-72	-0.9	-1.5	-3.3	-7.8	-0.2	-0.4	-0.7	-1.3	-0.0	-32.3	+0.0
11 Total off-trade discount ban	-10	-0.0	-0.2	-0.3	-0.1	-13	-0.1	-0.2	-0.6	-1.3	-0.1	-0.1	-0.2	-0.4	-0.0	-7.3	+0.0
12 Minimum price 25p + total off-t discount ban	-10	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.2	-0.5	-1.3	-0.1	-0.1	-0.2	-0.4	-0.0	-7.4	+0.0
13 Minimum price 30p + total off-t discount ban	-10	-0.0	-0.2	-0.3	-0.1	-13	-0.1	-0.3	-0.6	-1.4	-0.1	-0.1	-0.2	-0.4	-0.0	-7.5	+0.0
14 Minimum price 35p + total off-t discount ban	-12	-0.0	-0.3	-0.3	-0.1	-15	-0.2	-0.3	-0.6	-1.6	-0.0	-0.1	-0.2	-0.3	-0.0	-8.1	+0.0
15 Minimum price 40p + total off-t discount ban	-15	-0.0	-0.4	-0.4	-0.1	-19	-0.2	-0.4	-0.8	-2.0	-0.1	-0.1	-0.2	-0.3	-0.0	-9.3	+0.0
16 Minimum price 45p + total off-t discount ban	-20	-0.0	-0.5	-0.6	-0.1	-25	-0.3	-0.5	-1.1	-2.6	-0.1	-0.1	-0.2	-0.4	-0.0	-11.6	+0.0
17 Minimum price 50p + total off-t discount ban	-26	-0.0	-0.6	-0.8	-0.2	-33	-0.4	-0.7	-1.5	-3.5	-0.1	-0.2	-0.3	-0.5	-0.0	-14.7	+0.0
18 Minimum price 55p + total off-t discount ban	-34	-0.1	-0.8	-1.0	-0.2	-42	-0.5	-0.8	-1.9	-4.5	-0.1	-0.2	-0.4	-0.7	-0.0	-18.8	+0.0
19 Minimum price 60p + total off-t discount ban	-43	-0.1	-1.0	-1.2	-0.3	-53	-0.7	-1.1	-2.4	-5.6	-0.1	-0.3	-0.5	-0.9	-0.0	-23.7	+0.0
20 Minimum price 65p + total off-t discount ban	-54	-0.1	-1.3	-1.5	-0.4	-65	-0.8	-1.3	-3.0	-7.0	-0.2	-0.4	-0.6	-1.2	-0.0	-29.4	+0.0
21 Minimum price 70p + total off-t discount ban	-63	-0.1	-1.5	-1.8	-0.5	-75	-1.0	-1.6	-3.5	-8.2	-0.2	-0.5	-0.8	-1.5	-0.0	-35.4	+0.0

Table A8.6: Summary tables for sensitivity analysis – moderate versus heavy drinkers – harm analysis – moderate drinkers

SUMMARY - HAZARDOUS	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+1	-0.0	+0.0	+0.0	+0.0	-0	-0.0	+0.0	-0.0	+0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	+0.0
2 Minimum price 30p	-1	-0.0	-0.0	-0.0	-0.0	-6	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.4	+0.0
3 Minimum price 35p	-3	-0.0	-0.0	-0.1	-0.0	-17	-0.1	-0.1	-0.2	-0.5	-0.0	-0.0	-0.1	-0.1	-0.0	-1.1	+0.0
4 Minimum price 40p	-8	-0.0	-0.1	-0.2	-0.0	-40	-0.2	-0.1	-0.6	-1.1	-0.0	-0.1	-0.1	-0.3	-0.0	-2.8	+0.0
5 Minimum price 45p	-14	-0.0	-0.2	-0.3	-0.1	-73	-0.4	-0.2	-1.1	-2.0	-0.1	-0.2	-0.3	-0.5	-0.0	-5.4	+0.0
6 Minimum price 50p	-22	-0.1	-0.3	-0.5	-0.1	-113	-0.7	-0.4	-1.7	-3.1	-0.1	-0.3	-0.4	-0.8	-0.0	-8.5	+0.0
7 Minimum price 55p	-31	-0.1	-0.4	-0.7	-0.2	-158	-1.0	-0.5	-2.4	-4.3	-0.2	-0.4	-0.6	-1.2	-0.0	-12.2	+0.0
8 Minimum price 60p	-40	-0.1	-0.6	-0.9	-0.2	-205	-1.3	-0.7	-3.1	-5.6	-0.2	-0.6	-0.8	-1.6	-0.0	-16.2	+0.0
9 Minimum price 65p	-50	-0.1	-0.7	-1.1	-0.3	-255	-1.6	-0.9	-3.9	-7.0	-0.3	-0.7	-1.0	-2.0	-0.0	-20.4	+0.0
10 Minimum price 70p	-61	-0.2	-0.9	-1.4	-0.3	-308	-1.9	-1.0	-4.7	-8.5	-0.3	-0.8	-1.2	-2.4	-0.0	-24.8	+0.0
11 Total off-trade discount ban	-10	-0.0	-0.1	-0.2	-0.1	-54	-0.3	-0.2	-0.8	-1.4	-0.1	-0.2	-0.2	-0.4	-0.0	-4.4	+0.0
12 Minimum price 25p + total off-t discount ba	-10	-0.0	-0.1	-0.2	-0.1	-55	-0.3	-0.2	-0.8	-1.5	-0.1	-0.2	-0.2	-0.4	-0.0	-4.5	+0.0
13 Minimum price 30p + total off-t discount ba	-11	-0.0	-0.2	-0.2	-0.1	-58	-0.3	-0.2	-0.8	-1.6	-0.1	-0.2	-0.2	-0.5	-0.0	-4.7	+0.0
14 Minimum price 35p + total off-t discount ba	-13	-0.0	-0.2	-0.3	-0.1	-66	-0.4	-0.2	-1.0	-1.8	-0.1	-0.2	-0.3	-0.5	-0.0	-5.3	+0.0
15 Minimum price 40p + total off-t discount ba	-16	-0.0	-0.2	-0.4	-0.1	-84	-0.5	-0.3	-1.2	-2.3	-0.1	-0.2	-0.3	-0.6	-0.0	-6.7	+0.0
16 Minimum price 45p + total off-t discount ba	-21	-0.1	-0.3	-0.5	-0.1	-110	-0.7	-0.4	-1.6	-3.0	-0.1	-0.3	-0.4	-0.8	-0.0	-8.7	+0.0
17 Minimum price 50p + total off-t discount ba	-28	-0.1	-0.4	-0.6	-0.1	-143	-0.9	-0.5	-2.1	-3.9	-0.2	-0.4	-0.6	-1.1	-0.0	-11.3	+0.0
18 Minimum price 55p + total off-t discount ba	-35	-0.1	-0.5	-0.8	-0.2	-181	-1.1	-0.6	-2.7	-4.9	-0.2	-0.5	-0.7	-1.4	-0.0	-14.4	+0.0
19 Minimum price 60p + total off-t discount ba	-44	-0.1	-0.6	-1.0	-0.2	-225	-1.4	-0.8	-3.4	-6.2	-0.2	-0.6	-0.9	-1.7	-0.0	-18.0	+0.0
20 Minimum price 65p + total off-t discount ba	-53	-0.2	-0.8	-1.2	-0.3	-271	-1.7	-0.9	-4.1	-7.5	-0.3	-0.7	-1.1	-2.1	-0.0	-22.0	+0.0
21 Minimum price 70p + total off-t discount ba	-63	-0.2	-0.9	-1.4	-0.3	-320	-2.0	-1.1	-4.9	-8.9	-0.4	-0.9	-1.3	-2.5	-0.0	-26.1	+0.0

Table A8.7: Summary tables for sensitivity analysis – moderate versus heavy drinkers – harm analysis – hazardous drinkers

SUMMARY - HARMFUL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
1 Minimum price 25p	-1	-0.0	-0.0	-0.0	-0.0	-3	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.4	-0.0
2 Minimum price 30p	-1	-0.0	-0.0	-0.0	-0.0	-8	-0.1	-0.0	-0.2	-0.2	-0.0	-0.0	-0.1	-0.1	-0.0	-0.9	-0.1
3 Minimum price 35p	-3	-0.0	-0.0	-0.1	-0.0	-20	-0.2	-0.0	-0.4	-0.5	-0.0	-0.1	-0.1	-0.3	-0.0	-2.0	-0.2
4 Minimum price 40p	-6	-0.0	-0.1	-0.2	-0.0	-39	-0.3	-0.1	-0.7	-1.0	-0.1	-0.2	-0.3	-0.6	-0.0	-3.7	-0.4
5 Minimum price 45p	-10	-0.1	-0.1	-0.3	-0.1	-63	-0.5	-0.1	-1.2	-1.6	-0.1	-0.3	-0.4	-0.9	-0.0	-5.9	-0.7
6 Minimum price 50p	-15	-0.1	-0.2	-0.4	-0.1	-91	-0.7	-0.2	-1.7	-2.3	-0.2	-0.5	-0.6	-1.3	-0.0	-8.4	-1.0
7 Minimum price 55p	-20	-0.1	-0.3	-0.5	-0.1	-121	-1.0	-0.3	-2.3	-3.1	-0.2	-0.6	-0.8	-1.7	-0.0	-11.1	-1.3
8 Minimum price 60p	-25	-0.1	-0.3	-0.6	-0.1	-153	-1.2	-0.3	-2.8	-3.9	-0.3	-0.8	-1.0	-2.1	-0.0	-14.0	-1.6
9 Minimum price 65p	-31	-0.1	-0.4	-0.8	-0.2	-186	-1.5	-0.4	-3.4	-4.8	-0.4	-1.0	-1.2	-2.5	-0.0	-17.0	-2.0
10 Minimum price 70p	-37	-0.2	-0.5	-0.9	-0.2	-220	-1.7	-0.5	-4.0	-5.7	-0.4	-1.1	-1.5	-3.0	-0.0	-20.1	-2.3
11 Total off-trade discount ban	-5	-0.0	-0.1	-0.1	-0.0	-29	-0.2	-0.1	-0.6	-0.8	-0.1	-0.2	-0.2	-0.4	-0.0	-2.7	-0.3
12 Minimum price 25p + total off-t discount ban	-5	-0.0	-0.1	-0.1	-0.0	-32	-0.3	-0.1	-0.6	-0.8	-0.1	-0.2	-0.2	-0.4	-0.0	-3.0	-0.4
13 Minimum price 30p + total off-t discount ban	-6	-0.0	-0.1	-0.2	-0.0	-36	-0.3	-0.1	-0.7	-0.9	-0.1	-0.2	-0.2	-0.5	-0.0	-3.4	-0.4
14 Minimum price 35p + total off-t discount ban	-7	-0.0	-0.1	-0.2	-0.0	-46	-0.4	-0.1	-0.9	-1.2	-0.1	-0.2	-0.3	-0.6	-0.0	-4.3	-0.5
15 Minimum price 40p + total off-t discount ban	-10	-0.0	-0.1	-0.3	-0.1	-62	-0.5	-0.1	-1.2	-1.6	-0.1	-0.3	-0.4	-0.9	-0.0	-5.7	-0.7
16 Minimum price 45p + total off-t discount ban	-14	-0.1	-0.2	-0.3	-0.1	-82	-0.7	-0.2	-1.5	-2.1	-0.2	-0.4	-0.6	-1.2	-0.0	-7.6	-0.9
17 Minimum price 50p + total off-t discount ban	-18	-0.1	-0.2	-0.4	-0.1	-106	-0.9	-0.2	-2.0	-2.7	-0.2	-0.6	-0.7	-1.5	-0.0	-9.8	-1.2
18 Minimum price 55p + total off-t discount ban	-22	-0.1	-0.3	-0.6	-0.1	-133	-1.1	-0.3	-2.5	-3.4	-0.3	-0.7	-0.9	-1.8	-0.0	-12.2	-1.5
19 Minimum price 60p + total off-t discount ban	-27	-0.1	-0.4	-0.7	-0.1	-163	-1.3	-0.4	-3.0	-4.2	-0.3	-0.8	-1.1	-2.2	-0.0	-14.9	-1.8
20 Minimum price 65p + total off-t discount ban	-32	-0.2	-0.4	-0.8	-0.2	-194	-1.5	-0.4	-3.6	-5.0	-0.4	-1.0	-1.3	-2.7	-0.0	-17.7	-2.1
21 Minimum price 70p + total off-t discount ban	-38	-0.2	-0.5	-1.0	-0.2	-226	-1.8	-0.5	-4.1	-5.8	-0.4	-1.2	-1.5	-3.1	-0.0	-20.7	-2.4

Table A8.8: Summary tables for sensitivity analysis – moderate versus heavy elasticities – harm analysis – harmful drinkers

SUMMARY - TOTAL	Value of harm reduction in year 1 (£ millions)									Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs	
Policy Scenario	Year 1	Year 1	Year 1	Year 1	Year 1	Year 1	Year 1	Year 1	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Year 1-10	
1 Minimum price 25p	+0.3	-0	-0	-1.1	-9	+7	-0	-2	+2	-	-	-9	-8	+11	-	+3	
2 Minimum price 30p	-0.0	-1	-1	-2.5	-2.8	-1	-1	-3.0	-2	-1	-1	-21	-25	-11	-1	-37	
3 Minimum price 35p	-0.9	-3	-4	-5.4	-7.0	-2.3	-2	-9.5	-14	-3	-3	-45	-65	-61	-2	-127	
4 Minimum price 40p	-2.2	-8	-8	-10.0	-13.7	-5.6	-5	-19.9	-33	-7	-6	-83	-129	-142	-5	-276	
5 Minimum price 45p	-4.1	-1.5	-1.5	-15.8	-22.9	-10.6	-1.0	-34.4	-60	-12	-12	-132	-216	-259	-9	-484	
6 Minimum price 50p	-6.4	-2.3	-2.3	-22.3	-33.3	-16.6	-1.5	-51.5	-92	-19	-19	-186	-316	-400	-14	-730	
7 Minimum price 55p	-9.1	-3.3	-3.3	-29.3	-45.0	-23.7	-2.2	-70.9	-131	-27	-27	-244	-429	-562	-20	-1,011	
8 Minimum price 60p	-12.1	-4.3	-4.4	-36.5	-57.2	-31.4	-2.9	-91.5	-172	-36	-37	-303	-547	-735	-27	-1,309	
9 Minimum price 65p	-15.2	-5.4	-5.6	-43.6	-69.8	-39.5	-3.7	-113.0	-215	-45	-47	-363	-669	-917	-34	-1,620	
10 Minimum price 70p	-18.5	-6.6	-6.9	-50.5	-82.4	-48.1	-4.5	-135.1	-260	-55	-57	-420	-792	-1,106	-42	-1,939	
11 Total off-trade discount ban	-3.0	-1.2	-1.3	-7.5	-13.0	-7.8	-9	-21.7	-41	-10	-11	-63	-124	-178	-8	-310	
12 Minimum price 25p + total off-t discount ban	-3.0	-1.2	-1.4	-8.4	-14.0	-8.0	-9	-22.9	-42	-10	-11	-70	-133	-183	-8	-324	
13 Minimum price 30p + total off-t discount ban	-3.2	-1.3	-1.4	-9.5	-15.4	-8.5	-9	-24.8	-45	-11	-12	-79	-146	-195	-8	-349	
14 Minimum price 35p + total off-t discount ban	-3.7	-1.4	-1.6	-11.9	-18.7	-9.8	-1.0	-29.6	-53	-12	-13	-99	-177	-229	-9	-415	
15 Minimum price 40p + total off-t discount ban	-4.8	-1.8	-2.0	-15.7	-24.3	-12.6	-1.3	-38.1	-68	-15	-16	-131	-230	-295	-12	-537	
16 Minimum price 45p + total off-t discount ban	-6.4	-2.4	-2.5	-20.6	-31.9	-16.6	-1.6	-50.1	-90	-20	-21	-172	-302	-390	-15	-708	
17 Minimum price 50p + total off-t discount ban	-8.3	-3.1	-3.2	-26.2	-40.8	-21.7	-2.1	-64.5	-118	-25	-27	-218	-388	-508	-19	-916	
18 Minimum price 55p + total off-t discount ban	-10.7	-3.9	-4.0	-32.4	-51.0	-27.8	-2.7	-81.4	-151	-32	-34	-269	-486	-647	-24	-1,158	
19 Minimum price 60p + total off-t discount ban	-13.3	-4.8	-5.0	-38.9	-62.1	-34.8	-3.3	-100.1	-188	-40	-42	-324	-594	-805	-30	-1,429	
20 Minimum price 65p + total off-t discount ban	-16.4	-5.9	-6.1	-45.6	-73.9	-42.6	-4.0	-120.5	-230	-49	-51	-379	-708	-979	-37	-1,724	
21 Minimum price 70p + total off-t discount ban	-19.3	-7.0	-7.3	-52.1	-85.7	-50.4	-4.8	-141.0	-271	-58	-61	-433	-823	-1,154	-44	-2,021	

Table A8.9: Summary tables for sensitivity analysis – moderate versus heavy elasticities – financial value – overall population

SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
Policy Scenario																
1 Minimum price 25p	+0.3	+0	-0	+0	+3	+8	+0	+1.1	+3	+	-	+	+3	+15	+	+18
2 Minimum price 30p	+0.2	+0	-0	+0	+2	+5	+0	+8	+2	+	-	+	+2	+7	+	+9
3 Minimum price 35p	-0.2	+1	-1	+0	-2	-5	+1	-7	-3	+1	-1	+	-3	-12	+	-14
4 Minimum price 40p	-0.8	+0	-2	+0	-9	-1.9	+0	-2.8	-9	+	-2	+	-10	-39	+	-49
5 Minimum price 45p	-1.6	-1	-5	+0	-2.1	-4.0	-0	-6.1	-18	-	-4	+	-23	-78	-	-101
6 Minimum price 50p	-2.6	-2	-8	+0	-3.6	-6.6	-2	-10.4	-30	-2	-7	+	-39	-127	-2	-167
7 Minimum price 55p	-3.9	-4	-1.3	+0	-5.6	-9.9	-3	-15.8	-45	-3	-11	+	-59	-186	-3	-248
8 Minimum price 60p	-5.3	-6	-1.8	+0	-7.7	-13.5	-5	-21.7	-61	-5	-15	+	-81	-251	-5	-336
9 Minimum price 65p	-6.8	-9	-2.4	+0	-10.0	-17.4	-7	-28.1	-78	-7	-20	+	-105	-319	-7	-431
10 Minimum price 70p	-8.3	-1.2	-3.0	+0	-12.5	-21.5	-9	-34.9	-95	-10	-25	+	-130	-391	-9	-529
11 Total off-trade discount ban	-1.4	-3	-7	+0	-2.4	-3.8	-3	-6.5	-16	-3	-6	+	-24	-66	-3	-93
12 Minimum price 25p + total off-t discount ban	-1.4	-3	-7	+0	-2.4	-3.7	-3	-6.4	-16	-3	-6	+	-24	-66	-3	-93
13 Minimum price 30p + total off-t discount ban	-1.4	-3	-7	+0	-2.5	-3.8	-3	-6.6	-16	-3	-6	+	-24	-68	-2	-95
14 Minimum price 35p + total off-t discount ban	-1.6	-3	-8	+0	-2.7	-4.3	-2	-7.3	-18	-2	-6	+	-27	-79	-2	-108
15 Minimum price 40p + total off-t discount ban	-2.1	-3	-9	+0	-3.3	-5.4	-3	-9.0	-24	-3	-7	+	-33	-100	-2	-136
16 Minimum price 45p + total off-t discount ban	-2.8	-4	-1.1	+0	-4.2	-7.2	-3	-11.7	-31	-3	-9	+	-44	-132	-3	-179
17 Minimum price 50p + total off-t discount ban	-3.6	-5	-1.4	+0	-5.5	-9.3	-4	-15.2	-41	-4	-11	+	-57	-173	-4	-233
18 Minimum price 55p + total off-t discount ban	-4.7	-6	-1.7	+0	-7.1	-12.1	-5	-19.7	-54	-5	-14	+	-73	-223	-5	-302
19 Minimum price 60p + total off-t discount ban	-6.0	-8	-2.2	+0	-9.0	-15.3	-7	-25.0	-68	-7	-18	+	-93	-281	-6	-380
20 Minimum price 65p + total off-t discount ban	-7.4	-1.1	-2.7	+0	-11.2	-19.1	-9	-31.2	-85	-9	-22	+	-116	-348	-8	-472
21 Minimum price 70p + total off-t discount ban	-8.8	-1.3	-3.2	+0	-13.4	-22.7	-1.1	-37.1	-100	-11	-27	+	-138	-411	-10	-559

Table A8.10: Summary tables for sensitivity analysis – moderate versus heavy drinkers – financial value – moderate drinkers

SUMMARY - HAZARDOUS	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
1 Minimum price 25p	+0.0	-0	-0	+0	+0	+1	-0	+1	+	-	-	+	-	+1	-	+1
2 Minimum price 30p	-0.1	-0	-0	+0	-2	-2	-0	-4	-2	-	-	+	-2	-7	-	-10
3 Minimum price 35p	-0.3	-1	-1	+0	-5	-8	-1	-1.4	-5	-1	-1	+	-7	-23	-1	-30
4 Minimum price 40p	-0.7	-2	-2	+0	-1.2	-1.9	-2	-3.2	-12	-2	-2	+	-16	-53	-2	-70
5 Minimum price 45p	-1.4	-5	-5	+0	-2.3	-3.5	-3	-6.1	-22	-4	-4	+	-29	-98	-3	-130
6 Minimum price 50p	-2.1	-7	-7	+0	-3.6	-5.6	-5	-9.7	-34	-6	-6	+	-46	-153	-5	-203
7 Minimum price 55p	-3.1	-1.0	-1.1	+0	-5.1	-7.9	-7	-13.8	-48	-9	-9	+	-65	-216	-6	-287
8 Minimum price 60p	-4.0	-1.3	-1.4	+0	-6.8	-10.5	-9	-18.2	-63	-11	-12	+	-86	-282	-9	-377
9 Minimum price 65p	-5.0	-1.7	-1.8	+0	-8.5	-13.1	-1.2	-22.8	-79	-14	-15	+	-108	-352	-11	-471
10 Minimum price 70p	-6.1	-2.1	-2.1	+0	-10.3	-15.9	-1.4	-27.6	-96	-17	-18	+	-131	-425	-13	-569
11 Total off-trade discount ban	-1.0	-4	-4	+0	-1.8	-2.6	-3	-4.7	-16	-3	-3	+	-22	-72	-2	-97
12 Minimum price 25p + total off-t discount ban	-1.0	-4	-4	+0	-1.8	-2.7	-3	-4.8	-16	-3	-3	+	-23	-73	-3	-99
13 Minimum price 30p + total off-t discount ban	-1.1	-4	-4	+0	-1.9	-2.8	-3	-5.0	-17	-3	-3	+	-24	-78	-3	-104
14 Minimum price 35p + total off-t discount ban	-1.2	-5	-5	+0	-2.2	-3.3	-3	-5.8	-20	-4	-4	+	-27	-89	-3	-119
15 Minimum price 40p + total off-t discount ban	-1.6	-6	-6	+0	-2.7	-4.1	-4	-7.2	-25	-5	-5	+	-34	-113	-4	-151
16 Minimum price 45p + total off-t discount ban	-2.1	-7	-8	+0	-3.6	-5.5	-5	-9.6	-33	-6	-6	+	-45	-149	-5	-199
17 Minimum price 50p + total off-t discount ban	-2.7	-9	-1.0	+0	-4.7	-7.2	-6	-12.5	-43	-8	-8	+	-59	-194	-6	-260
18 Minimum price 55p + total off-t discount ban	-3.5	-1.2	-1.3	+0	-6.0	-9.2	-8	-16.0	-55	-10	-10	+	-76	-247	-8	-331
19 Minimum price 60p + total off-t discount ban	-4.4	-1.5	-1.6	+0	-7.5	-11.5	-1.0	-20.0	-69	-12	-13	+	-95	-309	-9	-413
20 Minimum price 65p + total off-t discount ban	-5.4	-1.8	-1.9	+0	-9.1	-14.0	-1.2	-24.3	-84	-15	-16	+	-115	-374	-11	-501
21 Minimum price 70p + total off-t discount ban	-6.4	-2.1	-2.3	+0	-10.8	-16.6	-1.5	-28.9	-100	-18	-19	+	-137	-443	-14	-594

Table A8.11: Summary tables for sensitivity analysis – moderate versus heavy drinkers – financial value – hazardous drinkers

SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)									Cumulative discounted value of harm reduction over 10 years (£m)						
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
1 Minimum price 25p	-0.1	-0	-0	-1.1	-1.2	-2	-0	-1.4	-1	-	-	-9	-10	-4	-	-15
2 Minimum price 30p	-0.1	-1	-1	-2.5	-2.8	-4	-1	-3.3	-3	-1	-1	-21	-25	-11	-1	-36
3 Minimum price 35p	-0.3	-2	-2	-5.4	-6.2	-9	-2	-7.3	-6	-2	-1	-45	-55	-26	-1	-82
4 Minimum price 40p	-0.7	-5	-3	-10.0	-11.5	-1.8	-3	-13.6	-12	-4	-3	-83	-102	-50	-3	-155
5 Minimum price 45p	-1.1	-8	-5	-15.8	-18.2	-2.9	-5	-21.6	-19	-7	-4	-132	-162	-82	-5	-248
6 Minimum price 50p	-1.6	-1.1	-7	-22.3	-25.7	-4.1	-7	-30.5	-28	-9	-6	-186	-228	-117	-7	-352
7 Minimum price 55p	-2.1	-1.4	-9	-29.3	-33.8	-5.5	-1.0	-40.2	-37	-12	-8	-244	-300	-156	-9	-465
8 Minimum price 60p	-2.6	-1.8	-1.2	-36.5	-42.1	-6.9	-1.2	-50.2	-46	-15	-10	-303	-374	-197	-11	-582
9 Minimum price 65p	-3.2	-2.2	-1.4	-43.6	-50.4	-8.4	-1.4	-60.2	-56	-18	-12	-363	-449	-239	-13	-701
10 Minimum price 70p	-3.8	-2.6	-1.7	-50.5	-58.6	-10.0	-1.7	-70.2	-66	-21	-14	-420	-522	-283	-16	-821
11 Total off-trade discount ban	-0.5	-4	-2	-7.5	-8.6	-1.3	-2	-10.2	-9	-3	-2	-63	-77	-38	-2	-117
12 Minimum price 25p + total off-t discount ban	-0.5	-4	-3	-8.4	-9.6	-1.4	-3	-11.3	-10	-3	-2	-70	-85	-42	-2	-129
13 Minimum price 30p + total off-t discount ban	-0.6	-4	-3	-9.5	-10.8	-1.6	-3	-12.8	-11	-3	-2	-79	-96	-47	-3	-146
14 Minimum price 35p + total off-t discount ban	-0.8	-5	-4	-11.9	-13.6	-2.1	-4	-16.0	-14	-4	-3	-99	-121	-59	-3	-183
15 Minimum price 40p + total off-t discount ban	-1.0	-7	-5	-15.7	-18.0	-2.8	-5	-21.3	-19	-6	-4	-131	-160	-80	-5	-244
16 Minimum price 45p + total off-t discount ban	-1.4	-1.0	-6	-20.6	-23.7	-3.7	-7	-28.0	-25	-8	-5	-172	-210	-106	-6	-323
17 Minimum price 50p + total off-t discount ban	-1.8	-1.3	-8	-26.2	-30.1	-4.8	-8	-35.8	-32	-11	-7	-218	-268	-137	-8	-413
18 Minimum price 55p + total off-t discount ban	-2.3	-1.6	-1.0	-32.4	-37.3	-6.0	-1.1	-44.3	-40	-13	-9	-269	-331	-172	-10	-513
19 Minimum price 60p + total off-t discount ban	-2.8	-1.9	-1.3	-38.9	-44.9	-7.3	-1.3	-53.5	-49	-16	-10	-324	-399	-210	-12	-620
20 Minimum price 65p + total off-t discount ban	-3.3	-2.3	-1.5	-45.6	-52.6	-8.8	-1.5	-62.9	-58	-19	-12	-379	-469	-250	-14	-732
21 Minimum price 70p + total off-t discount ban	-3.9	-2.7	-1.8	-52.1	-60.4	-10.3	-1.8	-72.5	-68	-22	-15	-433	-538	-292	-16	-846

Table A8.12: Summary tables for sensitivity analysis – moderate versus heavy drinkers – financial value – harmful drinkers



**Appendix 9: Summary tables for sensitivity analysis – protective effects of alcohol for CHD**

SUMMARY - TOTAL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	-0.1%	-2.0	+0.9	+0.2	+0.0	-0.9	+4.7	+3.1	-0.1	+0.9	+8.7	+0.4%	+2.29	+1.28
2 Minimum price 30p	-0.3%	-4.6	+1.8	+0.1	+0.0	-2.7	+11.0	+7.6	-0.8	+2.3	+20.1	+0.9%	+5.32	+3.46
3 Minimum price 35p	-1.0%	-7.4	+2.4	-3.0	+0.0	-7.8	+23.7	+14.9	-3.8	+4.5	+39.3	+1.7%	+10.38	+8.64
4 Minimum price 40p	-2.3%	-10.3	+1.3	-9.1	+0.1	-18.0	+43.1	+25.0	-10.0	+7.6	+65.7	+2.8%	+17.34	+18.11
5 Minimum price 45p	-4.3%	-13.6	-3.1	-16.9	+0.1	-33.5	+67.3	+36.7	-19.5	+11.1	+95.6	+4.1%	+25.24	+32.15
6 Minimum price 50p	-6.7%	-17.2	-9.5	-25.7	+0.1	-52.3	+90.8	+49.2	-31.4	+14.9	+123.4	+5.2%	+32.56	+48.91
7 Minimum price 55p	-9.5%	-20.9	-18.1	-35.2	+0.1	-74.1	+112.1	+62.5	-46.0	+18.9	+147.6	+6.3%	+38.95	+68.41
8 Minimum price 60p	-12.3%	-23.2	-27.8	-45.2	+0.0	-96.2	+130.3	+76.7	-61.4	+23.0	+168.7	+7.2%	+44.52	+89.53
9 Minimum price 65p	-15.3%	-25.2	-38.8	-55.5	-0.0	-119.6	+142.8	+92.2	-78.5	+27.3	+183.8	+7.8%	+48.51	+112.28
10 Minimum price 70p	-18.4%	-27.1	-50.3	-66.1	-0.2	-143.7	+148.0	+108.5	-97.2	+31.6	+190.9	+8.1%	+50.39	+136.04
11 Total off-trade discount ban	-3.1%	-6.3	-13.9	-4.0	-0.2	-24.3	+48.4	+11.5	-10.5	+3.5	+53.0	+2.3%	+13.99	+24.03
12 Minimum price 25p + total off-t discount ban	-3.2%	-8.0	-13.2	-3.8	-0.1	-25.2	+51.9	+14.0	-10.7	+4.3	+59.5	+2.5%	+15.70	+25.07
13 Minimum price 30p + total off-t discount ban	-3.4%	-9.9	-12.6	-4.0	-0.1	-26.6	+56.3	+17.5	-11.4	+5.3	+67.7	+2.9%	+17.87	+26.72
14 Minimum price 35p + total off-t discount ban	-4.0%	-11.8	-12.3	-6.8	-0.1	-31.0	+66.0	+23.7	-14.2	+7.2	+82.7	+3.5%	+21.83	+30.90
15 Minimum price 40p + total off-t discount ban	-5.1%	-13.8	-13.3	-12.4	-0.1	-39.6	+80.7	+32.4	-19.8	+9.9	+103.2	+4.4%	+27.25	+38.62
16 Minimum price 45p + total off-t discount ban	-6.7%	-16.3	-16.5	-19.3	-0.1	-52.3	+97.8	+42.8	-28.2	+13.0	+125.4	+5.3%	+33.09	+49.94
17 Minimum price 50p + total off-t discount ban	-8.7%	-19.3	-21.5	-27.3	-0.1	-68.2	+114.1	+54.2	-39.2	+16.4	+145.6	+6.2%	+38.42	+63.91
18 Minimum price 55p + total off-t discount ban	-11.2%	-22.4	-28.5	-36.2	-0.1	-87.2	+128.7	+66.6	-52.6	+20.1	+162.8	+6.9%	+42.98	+80.63
19 Minimum price 60p + total off-t discount ban	-13.7%	-24.2	-36.9	-45.9	-0.1	-107.1	+141.7	+80.1	-67.3	+24.0	+178.6	+7.6%	+47.13	+99.67
20 Minimum price 65p + total off-t discount ban	-16.5%	-25.8	-46.8	-56.1	-0.2	-129.0	+150.1	+95.1	-83.9	+28.2	+189.4	+8.1%	+50.00	+120.93
21 Minimum price 70p + total off-t discount ban	-19.5%	-27.4	-57.6	-66.6	-0.3	-151.9	+152.0	+111.1	-102.4	+32.4	+193.1	+8.2%	+50.97	+143.52

**Table A9.1: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – consumption analysis – overall population**

SUMMARY - MODERATE	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	+0.0%	-0.2	+0.1	+0.1	+0.0	+0.0	+0.7	+0.7	+0.0	+0.2	+1.7	+0.2%	+0.69	+0.29
2 Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.1	+1.7	+1.7	-0.0	+0.5	+3.8	+0.5%	+1.51	+0.77
3 Minimum price 35p	-0.3%	-0.2	-0.1	-0.6	+0.0	-1.0	+4.0	+3.3	-0.4	+1.0	+7.9	+1.0%	+3.11	+2.06
4 Minimum price 40p	-0.9%	-0.0	-0.8	-2.1	+0.0	-2.9	+7.9	+5.5	-1.2	+1.6	+13.8	+1.8%	+5.46	+4.55
5 Minimum price 45p	-2.0%	+0.2	-2.5	-3.9	+0.0	-6.2	+13.5	+8.0	-2.4	+2.4	+21.5	+2.8%	+8.48	+8.58
6 Minimum price 50p	-3.3%	+0.3	-4.9	-5.8	+0.0	-10.4	+19.8	+10.7	-3.9	+3.2	+29.7	+3.8%	+11.71	+13.66
7 Minimum price 55p	-5.0%	+0.4	-8.1	-8.1	+0.1	-15.7	+26.7	+13.5	-5.9	+4.0	+38.3	+4.9%	+15.12	+19.98
8 Minimum price 60p	-6.8%	+0.4	-11.5	-10.5	+0.1	-21.5	+33.0	+16.5	-8.2	+4.9	+46.3	+5.9%	+18.25	+26.91
9 Minimum price 65p	-8.8%	+0.4	-15.4	-13.0	+0.1	-27.9	+38.7	+19.9	-10.9	+5.8	+53.5	+6.9%	+21.12	+34.59
10 Minimum price 70p	-10.9%	+0.4	-19.4	-15.6	+0.1	-34.5	+43.1	+23.6	-13.8	+6.8	+59.6	+7.6%	+23.52	+42.62
11 Total off-trade discount ban	-2.1%	-0.4	-5.1	-0.9	-0.0	-6.5	+12.3	+2.3	-1.4	+0.7	+13.9	+1.8%	+5.47	+8.43
12 Minimum price 25p + total off-t discount ban	-2.1%	-0.6	-5.0	-0.9	-0.0	-6.5	+12.9	+2.9	-1.4	+0.9	+15.3	+2.0%	+6.03	+8.68
13 Minimum price 30p + total off-t discount ban	-2.1%	-0.7	-5.1	-0.9	-0.0	-6.7	+13.6	+3.6	-1.4	+1.1	+16.9	+2.2%	+6.67	+9.06
14 Minimum price 35p + total off-t discount ban	-2.3%	-0.6	-5.3	-1.5	-0.0	-7.4	+15.5	+5.0	-1.8	+1.5	+20.3	+2.6%	+8.00	+10.16
15 Minimum price 40p + total off-t discount ban	-2.9%	-0.4	-5.8	-2.9	+0.0	-9.1	+18.7	+7.0	-2.5	+2.1	+25.2	+3.2%	+9.96	+12.27
16 Minimum price 45p + total off-t discount ban	-3.7%	-0.2	-7.1	-4.5	+0.0	-11.8	+22.9	+9.2	-3.6	+2.8	+31.3	+4.0%	+12.33	+15.52
17 Minimum price 50p + total off-t discount ban	-4.8%	+0.0	-8.9	-6.3	+0.0	-15.2	+27.5	+11.7	-5.0	+3.5	+37.6	+4.8%	+14.84	+19.68
18 Minimum price 55p + total off-t discount ban	-6.2%	+0.2	-11.5	-8.4	+0.0	-19.7	+32.6	+14.4	-6.9	+4.3	+44.4	+5.7%	+17.50	+24.98
19 Minimum price 60p + total off-t discount ban	-7.9%	+0.3	-14.4	-10.7	+0.0	-24.9	+37.5	+17.3	-9.1	+5.1	+50.8	+6.5%	+20.04	+31.11
20 Minimum price 65p + total off-t discount ban	-9.7%	+0.3	-17.9	-13.2	+0.0	-30.8	+42.0	+20.6	-11.7	+6.0	+56.8	+7.3%	+22.41	+38.18
21 Minimum price 70p + total off-t discount ban	-11.7%	+0.4	-21.6	-15.8	+0.1	-37.0	+45.5	+24.1	-14.6	+6.9	+61.9	+7.9%	+24.43	+45.75

Table A9.2: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – consumption analysis – moderate drinkers

SUMMARY - HAZARDOUS	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	Policy Scenario	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.
1 Minimum price 25p	+0.0%	-2.6	+2.6	+0.4	+0.0	+0.5	+1.9	+1.6	+0.2	+0.5	+4.1	+0.4%	+4.82	+1.88
2 Minimum price 30p	-0.0%	-6.0	+5.4	+0.3	+0.0	-0.3	+4.5	+3.8	+0.2	+1.2	+9.7	+1.0%	+11.43	+5.45
3 Minimum price 35p	-0.4%	-9.2	+7.7	-4.3	+0.1	-5.7	+9.4	+7.4	-0.6	+2.2	+18.5	+2.0%	+21.82	+13.66
4 Minimum price 40p	-1.4%	-12.4	+5.9	-14.0	+0.1	-20.3	+17.4	+12.4	-2.7	+3.8	+31.0	+3.3%	+36.53	+30.11
5 Minimum price 45p	-3.2%	-16.2	-3.4	-26.9	+0.1	-46.4	+27.8	+18.4	-6.3	+5.6	+45.4	+4.9%	+53.55	+55.94
6 Minimum price 50p	-5.6%	-20.2	-17.5	-42.1	+0.1	-79.8	+38.1	+24.8	-11.2	+7.6	+59.2	+6.4%	+69.79	+87.44
7 Minimum price 55p	-8.4%	-24.5	-36.9	-58.7	+0.0	-120.1	+47.3	+31.6	-17.4	+9.6	+71.2	+7.6%	+83.89	+124.10
8 Minimum price 60p	-11.3%	-26.7	-58.9	-76.3	-0.0	-161.9	+54.7	+38.9	-24.1	+11.7	+81.2	+8.7%	+95.79	+163.70
9 Minimum price 65p	-14.4%	-27.4	-83.2	-94.5	-0.1	-205.2	+59.8	+46.6	-31.4	+13.9	+89.0	+9.6%	+104.89	+206.13
10 Minimum price 70p	-17.6%	-28.7	-108.8	-113.5	-0.2	-251.2	+61.3	+54.8	-39.7	+16.2	+92.6	+9.9%	+109.15	+250.57
11 Total off-trade discount ban	-3.3%	-9.9	-29.2	-7.8	-0.2	-47.2	+19.9	+5.9	-4.9	+1.8	+22.6	+2.4%	+26.64	+45.39
12 Minimum price 25p + total off-t discount ban	-3.3%	-12.0	-27.3	-7.5	-0.2	-47.0	+21.2	+7.1	-4.8	+2.2	+25.7	+2.8%	+30.29	+46.92
13 Minimum price 30p + total off-t discount ban	-3.3%	-14.4	-25.5	-7.8	-0.2	-47.9	+23.1	+8.9	-4.9	+2.7	+29.8	+3.2%	+35.09	+49.58
14 Minimum price 35p + total off-t discount ban	-3.7%	-16.4	-24.0	-11.9	-0.2	-52.5	+26.9	+11.9	-5.6	+3.6	+36.8	+3.9%	+43.33	+56.12
15 Minimum price 40p + total off-t discount ban	-4.5%	-18.1	-25.5	-20.7	-0.1	-64.5	+32.9	+16.2	-7.5	+5.0	+46.5	+5.0%	+54.87	+69.27
16 Minimum price 45p + total off-t discount ban	-6.0%	-20.6	-32.3	-32.1	-0.1	-85.1	+40.0	+21.5	-10.7	+6.6	+57.3	+6.2%	+67.59	+89.65
17 Minimum price 50p + total off-t discount ban	-7.9%	-23.7	-43.2	-45.7	-0.1	-112.6	+47.0	+27.3	-15.1	+8.3	+67.5	+7.2%	+79.59	+115.47
18 Minimum price 55p + total off-t discount ban	-10.3%	-27.1	-58.8	-60.9	-0.2	-146.9	+53.1	+33.6	-20.7	+10.2	+76.2	+8.2%	+89.87	+146.57
19 Minimum price 60p + total off-t discount ban	-12.9%	-28.5	-77.7	-77.9	-0.2	-184.2	+58.3	+40.5	-27.1	+12.2	+83.9	+9.0%	+98.92	+182.13
20 Minimum price 65p + total off-t discount ban	-15.7%	-28.5	-99.9	-95.9	-0.3	-224.5	+61.6	+48.0	-34.2	+14.3	+89.7	+9.6%	+105.77	+221.73
21 Minimum price 70p + total off-t discount ban	-18.8%	-29.3	-123.9	-114.6	-0.4	-268.2	+61.6	+56.0	-42.3	+16.5	+91.8	+9.9%	+108.27	+263.96

Table A9.3: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – consumption analysis – hazardous drinkers

SUMMARY - HARMFUL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	Policy Scenario	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.
1 Minimum price 25p	-0.4%	-20.8	+4.1	+1.0	+0.0	-15.7	+2.1	+0.8	-0.3	+0.2	+2.8	+0.5%	+11.82	+10.38
2 Minimum price 30p	-1.1%	-48.4	+9.1	-0.5	+0.1	-39.6	+4.8	+2.1	-1.0	+0.6	+6.5	+1.1%	+27.12	+27.04
3 Minimum price 35p	-2.5%	-81.4	+12.8	-24.7	+0.2	-93.1	+10.1	+4.1	-2.8	+1.3	+12.7	+2.1%	+52.82	+65.45
4 Minimum price 40p	-4.8%	-118.4	+8.1	-70.3	+0.3	-180.3	+17.4	+6.9	-6.1	+2.1	+20.3	+3.4%	+84.64	+129.00
5 Minimum price 45p	-7.9%	-159.0	-9.2	-128.5	+0.4	-296.3	+25.3	+10.1	-10.7	+3.1	+27.8	+4.6%	+115.72	+214.63
6 Minimum price 50p	-11.4%	-202.9	-33.9	-192.0	+0.5	-428.2	+31.8	+13.4	-16.2	+4.1	+33.1	+5.5%	+138.08	+311.61
7 Minimum price 55p	-15.3%	-246.5	-67.6	-258.9	+0.4	-572.6	+36.7	+17.0	-22.5	+5.1	+36.3	+6.0%	+151.28	+419.97
8 Minimum price 60p	-18.9%	-275.0	-106.6	-327.7	-0.5	-709.7	+40.7	+20.8	-28.8	+6.2	+39.0	+6.5%	+162.44	+536.82
9 Minimum price 65p	-22.8%	-303.6	-151.4	-398.0	-1.6	-854.6	+42.2	+25.0	-35.8	+7.4	+38.7	+6.5%	+161.37	+660.82
10 Minimum price 70p	-26.7%	-327.9	-199.4	-469.9	-3.1	-1000.3	+41.2	+29.3	-43.2	+8.5	+35.8	+6.0%	+149.12	+789.78
11 Total off-trade discount ban	-3.9%	-59.4	-59.8	-24.9	-1.4	-145.5	+15.6	+3.3	-4.2	+1.0	+15.8	+2.6%	+65.64	+124.91
12 Minimum price 25p + total off-t discount ban	-4.2%	-76.0	-57.3	-24.3	-1.3	-158.8	+17.1	+3.9	-4.5	+1.2	+17.7	+3.0%	+73.93	+133.26
13 Minimum price 30p + total off-t discount ban	-4.7%	-96.8	-54.0	-25.8	-1.3	-177.9	+18.8	+4.9	-5.0	+1.5	+20.2	+3.4%	+84.13	+145.77
14 Minimum price 35p + total off-t discount ban	-5.9%	-121.3	-51.8	-48.1	-1.2	-222.4	+22.7	+6.6	-6.7	+2.0	+24.7	+4.1%	+102.89	+176.32
15 Minimum price 40p + total off-t discount ban	-7.9%	-149.5	-56.1	-89.6	-1.2	-296.4	+28.1	+9.0	-9.7	+2.8	+30.2	+5.0%	+125.95	+228.48
16 Minimum price 45p + total off-t discount ban	-10.5%	-182.6	-69.3	-141.9	-1.0	-394.8	+33.6	+11.8	-13.8	+3.6	+35.3	+5.9%	+147.04	+299.06
17 Minimum price 50p + total off-t discount ban	-13.6%	-220.3	-89.0	-200.2	-0.9	-510.4	+38.1	+14.9	-18.9	+4.5	+38.6	+6.4%	+160.90	+382.15
18 Minimum price 55p + total off-t discount ban	-17.1%	-258.3	-116.6	-263.5	-1.0	-639.4	+41.1	+18.3	-24.8	+5.5	+40.1	+6.7%	+167.00	+477.62
19 Minimum price 60p + total off-t discount ban	-20.4%	-282.1	-150.6	-330.8	-1.9	-765.4	+43.8	+21.9	-30.8	+6.5	+41.4	+6.9%	+172.44	+584.73
20 Minimum price 65p + total off-t discount ban	-24.1%	-307.6	-191.5	-400.6	-2.9	-902.6	+44.1	+25.9	-37.6	+7.6	+40.0	+6.7%	+166.81	+701.84
21 Minimum price 70p + total off-t discount ban	-27.8%	-329.7	-236.1	-472.2	-4.3	-1042.3	+42.2	+30.2	-44.9	+8.7	+36.2	+6.0%	+150.74	+825.25

Table A9.4: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – consumption analysis – harmful drinkers

SUMMARY - TOTAL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+6	-0.0	+0.1	+0.1	+0.0	+3	-0.0	+0.1	-0.0	+0.3	-0.0	-0.0	-0.0	-0.0	-0.0	-0.5	-0.1
2 Minimum price 30p	+2	-0.0	+0.0	-0.0	+0.0	-9	-0.1	+0.0	-0.2	-0.1	-0.0	-0.1	-0.1	-0.2	-0.0	-1.6	-0.2
3 Minimum price 35p	-8	-0.0	-0.1	-0.2	-0.1	-41	-0.3	-0.2	-0.8	-1.4	-0.1	-0.2	-0.3	-0.5	-0.0	-4.9	-0.4
4 Minimum price 40p	-24	-0.1	-0.4	-0.6	-0.1	-105	-0.8	-0.5	-2.0	-3.6	-0.2	-0.5	-0.7	-1.4	-0.0	-11.8	-0.7
5 Minimum price 45p	-48	-0.1	-0.8	-1.2	-0.3	-199	-1.5	-0.9	-3.8	-6.9	-0.4	-1.0	-1.3	-2.6	-0.0	-22.9	-1.2
6 Minimum price 50p	-76	-0.2	-1.3	-1.9	-0.5	-311	-2.3	-1.4	-6.0	-11.0	-0.6	-1.5	-2.0	-4.0	-0.0	-36.9	-1.7
7 Minimum price 55p	-109	-0.3	-1.9	-2.8	-0.7	-440	-3.3	-2.1	-8.5	-15.7	-0.8	-2.1	-2.8	-5.7	-0.0	-53.6	-2.2
8 Minimum price 60p	-143	-0.4	-2.5	-3.6	-0.9	-568	-4.2	-2.8	-11.1	-20.5	-1.0	-2.7	-3.7	-7.4	-0.1	-70.5	-2.7
9 Minimum price 65p	-177	-0.5	-3.1	-4.5	-1.1	-696	-5.2	-3.4	-13.7	-25.4	-1.3	-3.4	-4.6	-9.3	-0.1	-88.8	-3.1
10 Minimum price 70p	-211	-0.6	-3.8	-5.4	-1.3	-821	-6.2	-4.1	-16.3	-30.3	-1.6	-4.0	-5.5	-11.1	-0.1	-108.0	-3.5
11 Total off-trade discount ban	-35	-0.1	-0.6	-0.9	-0.2	-145	-1.0	-0.7	-2.7	-5.2	-0.3	-0.7	-1.0	-2.0	-0.0	-20.5	-0.6
12 Minimum price 25p + total off-t discount ban	-36	-0.1	-0.6	-0.9	-0.2	-148	-1.1	-0.7	-2.8	-5.3	-0.3	-0.7	-1.0	-2.1	-0.0	-21.0	-0.7
13 Minimum price 30p + total off-t discount ban	-37	-0.1	-0.7	-1.0	-0.2	-156	-1.1	-0.7	-3.0	-5.6	-0.3	-0.8	-1.1	-2.2	-0.0	-21.9	-0.7
14 Minimum price 35p + total off-t discount ban	-44	-0.1	-0.8	-1.1	-0.3	-181	-1.3	-0.8	-3.5	-6.4	-0.3	-0.9	-1.2	-2.5	-0.0	-24.8	-0.9
15 Minimum price 40p + total off-t discount ban	-56	-0.2	-1.0	-1.5	-0.3	-232	-1.7	-1.1	-4.5	-8.3	-0.4	-1.1	-1.6	-3.1	-0.0	-30.5	-1.2
16 Minimum price 45p + total off-t discount ban	-75	-0.2	-1.3	-1.9	-0.5	-306	-2.3	-1.4	-5.9	-10.9	-0.6	-1.5	-2.0	-4.1	-0.0	-39.6	-1.6
17 Minimum price 50p + total off-t discount ban	-99	-0.3	-1.7	-2.5	-0.6	-400	-3.0	-1.9	-7.8	-14.3	-0.7	-1.9	-2.7	-5.3	-0.0	-51.2	-2.0
18 Minimum price 55p + total off-t discount ban	-127	-0.4	-2.2	-3.3	-0.8	-511	-3.8	-2.4	-9.9	-18.4	-0.9	-2.5	-3.4	-6.8	-0.0	-65.4	-2.5
19 Minimum price 60p + total off-t discount ban	-157	-0.5	-2.8	-4.0	-1.0	-623	-4.7	-3.1	-12.2	-22.7	-1.2	-3.0	-4.1	-8.3	-0.1	-80.6	-2.9
20 Minimum price 65p + total off-t discount ban	-190	-0.5	-3.4	-4.9	-1.2	-741	-5.6	-3.7	-14.6	-27.2	-1.4	-3.6	-5.0	-10.0	-0.1	-97.5	-3.2
21 Minimum price 70p + total off-t discount ban	-220	-0.6	-3.9	-5.7	-1.4	-859	-6.5	-4.3	-17.1	-31.8	-1.7	-4.3	-5.9	-11.8	-0.1	-115.6	-3.6

Table A9.5: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – harm analysis – overall population

SUMMARY - MODERATE	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
Policy Scenario																	
1 Minimum price 25p	+5	+0.0	+0.1	+0.1	+0.0	+5	-0.0	+0.1	+0.1	+0.3	+0.0	+0.0	+0.0	+0.0	+0.0	-0.0	+0.0
2 Minimum price 30p	+3	-0.0	+0.0	+0.0	+0.0	+3	-0.0	+0.0	+0.0	+0.2	+0.0	+0.0	+0.0	+0.0	+0.0	-0.2	+0.0
3 Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-1	-0.0	-0.0	-0.1	-0.2	+0.0	+0.0	+0.0	+0.1	+0.0	-0.8	+0.0
4 Minimum price 40p	-5	-0.0	-0.1	-0.2	-0.0	-4	-0.1	-0.1	-0.3	-0.8	+0.0	+0.0	+0.0	+0.1	+0.0	-2.3	+0.0
5 Minimum price 45p	-11	-0.0	-0.3	-0.3	-0.1	-9	-0.2	-0.3	-0.6	-1.6	-0.0	-0.0	-0.0	-0.1	-0.0	-5.2	+0.0
6 Minimum price 50p	-18	-0.0	-0.4	-0.5	-0.1	-16	-0.3	-0.5	-1.0	-2.7	-0.0	-0.1	-0.1	-0.2	-0.0	-9.1	+0.0
7 Minimum price 55p	-28	-0.0	-0.7	-0.8	-0.2	-23	-0.4	-0.7	-1.4	-3.9	-0.1	-0.1	-0.2	-0.4	-0.0	-14.2	+0.0
8 Minimum price 60p	-37	-0.1	-0.9	-1.1	-0.3	-31	-0.5	-1.0	-1.9	-5.3	-0.1	-0.2	-0.4	-0.7	-0.0	-19.7	+0.0
9 Minimum price 65p	-48	-0.1	-1.1	-1.4	-0.3	-39	-0.6	-1.2	-2.5	-6.7	-0.2	-0.3	-0.5	-1.0	-0.0	-25.9	+0.0
10 Minimum price 70p	-58	-0.1	-1.4	-1.7	-0.4	-46	-0.8	-1.5	-3.0	-8.2	-0.2	-0.4	-0.7	-1.3	-0.0	-32.3	+0.0
11 Total off-trade discount ban	-9	-0.0	-0.2	-0.3	-0.1	-9	-0.1	-0.2	-0.5	-1.4	-0.1	-0.1	-0.2	-0.4	-0.0	-7.3	+0.0
12 Minimum price 25p + total off-t discount ban	-9	-0.0	-0.2	-0.3	-0.1	-9	-0.1	-0.2	-0.5	-1.4	-0.1	-0.1	-0.2	-0.4	-0.0	-7.4	+0.0
13 Minimum price 30p + total off-t discount ban	-10	-0.0	-0.2	-0.3	-0.1	-9	-0.1	-0.3	-0.5	-1.5	-0.1	-0.1	-0.2	-0.4	-0.0	-7.5	+0.0
14 Minimum price 35p + total off-t discount ban	-11	-0.0	-0.3	-0.3	-0.1	-10	-0.1	-0.3	-0.6	-1.7	-0.0	-0.1	-0.2	-0.3	-0.0	-8.1	+0.0
15 Minimum price 40p + total off-t discount ban	-14	-0.0	-0.4	-0.4	-0.1	-13	-0.2	-0.4	-0.8	-2.1	-0.1	-0.1	-0.2	-0.3	-0.0	-9.3	+0.0
16 Minimum price 45p + total off-t discount ban	-19	-0.0	-0.5	-0.6	-0.1	-17	-0.3	-0.5	-1.0	-2.8	-0.1	-0.1	-0.2	-0.4	-0.0	-11.6	+0.0
17 Minimum price 50p + total off-t discount ban	-25	-0.0	-0.6	-0.7	-0.2	-22	-0.3	-0.6	-1.3	-3.7	-0.1	-0.2	-0.3	-0.5	-0.0	-14.7	+0.0
18 Minimum price 55p + total off-t discount ban	-33	-0.0	-0.8	-1.0	-0.2	-28	-0.4	-0.8	-1.7	-4.7	-0.1	-0.2	-0.4	-0.7	-0.0	-18.8	+0.0
19 Minimum price 60p + total off-t discount ban	-42	-0.1	-1.0	-1.2	-0.3	-35	-0.6	-1.1	-2.2	-5.9	-0.1	-0.3	-0.5	-0.9	-0.0	-23.7	+0.0
20 Minimum price 65p + total off-t discount ban	-52	-0.1	-1.3	-1.5	-0.4	-42	-0.7	-1.3	-2.7	-7.3	-0.2	-0.4	-0.6	-1.2	-0.0	-29.4	+0.0
21 Minimum price 70p + total off-t discount ban	-61	-0.1	-1.5	-1.8	-0.5	-48	-0.8	-1.6	-3.2	-8.6	-0.2	-0.5	-0.8	-1.5	-0.0	-35.4	+0.0

Table A9.6: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – harm analysis – moderate drinkers

SUMMARY - HAZARDOUS	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
Policy Scenario																	
1 Minimum price 25p	+1	+0.0	+0.0	+0.0	+0.0	+1	+0.0	+0.0	+0.0	+0.1	+0.0	+0.0	+0.0	+0.0	+0.0	+0.2	+0.0
2 Minimum price 30p	+1	-0.0	+0.0	+0.0	+0.0	-2	-0.0	+0.0	-0.0	-0.0	+0.0	-0.0	+0.0	+0.0	+0.0	+0.1	+0.0
3 Minimum price 35p	-3	-0.0	-0.0	-0.1	-0.0	-14	-0.1	-0.1	-0.2	-0.4	-0.0	-0.0	-0.0	-0.1	-0.0	-0.7	+0.0
4 Minimum price 40p	-10	-0.0	-0.1	-0.2	-0.0	-46	-0.3	-0.2	-0.7	-1.3	-0.0	-0.1	-0.1	-0.3	-0.0	-2.9	+0.0
5 Minimum price 45p	-20	-0.1	-0.3	-0.4	-0.1	-97	-0.6	-0.4	-1.5	-2.7	-0.1	-0.2	-0.3	-0.7	-0.0	-7.0	+0.0
6 Minimum price 50p	-34	-0.1	-0.5	-0.7	-0.2	-159	-1.0	-0.6	-2.4	-4.6	-0.2	-0.4	-0.6	-1.2	-0.0	-12.3	+0.0
7 Minimum price 55p	-49	-0.1	-0.7	-1.1	-0.3	-233	-1.4	-0.9	-3.6	-6.7	-0.2	-0.6	-0.9	-1.7	-0.0	-18.8	+0.0
8 Minimum price 60p	-65	-0.2	-1.0	-1.5	-0.3	-308	-1.9	-1.2	-4.8	-8.9	-0.3	-0.8	-1.2	-2.3	-0.0	-25.4	+0.0
9 Minimum price 65p	-81	-0.2	-1.2	-1.8	-0.4	-381	-2.4	-1.5	-6.1	-11.1	-0.4	-1.0	-1.5	-2.9	-0.0	-32.4	+0.0
10 Minimum price 70p	-96	-0.3	-1.5	-2.2	-0.5	-450	-2.9	-1.8	-7.3	-13.2	-0.5	-1.2	-1.8	-3.6	-0.0	-39.8	+0.0
11 Total off-trade discount ban	-17	-0.1	-0.3	-0.4	-0.1	-88	-0.5	-0.3	-1.3	-2.5	-0.1	-0.3	-0.4	-0.8	-0.0	-8.0	+0.0
12 Minimum price 25p + total off-t discount ban	-18	-0.0	-0.3	-0.4	-0.1	-88	-0.5	-0.3	-1.3	-2.5	-0.1	-0.3	-0.4	-0.7	-0.0	-7.9	+0.0
13 Minimum price 30p + total off-t discount ban	-18	-0.1	-0.3	-0.4	-0.1	-91	-0.5	-0.3	-1.4	-2.5	-0.1	-0.3	-0.4	-0.8	-0.0	-7.9	+0.0
14 Minimum price 35p + total off-t discount ban	-20	-0.1	-0.3	-0.5	-0.1	-100	-0.6	-0.4	-1.5	-2.8	-0.1	-0.3	-0.4	-0.8	-0.0	-8.6	+0.0
15 Minimum price 40p + total off-t discount ban	-25	-0.1	-0.4	-0.6	-0.1	-125	-0.8	-0.4	-1.9	-3.5	-0.1	-0.3	-0.5	-1.0	-0.0	-10.5	+0.0
16 Minimum price 45p + total off-t discount ban	-34	-0.1	-0.5	-0.8	-0.2	-163	-1.0	-0.6	-2.5	-4.6	-0.2	-0.4	-0.6	-1.2	-0.0	-13.7	+0.0
17 Minimum price 50p + total off-t discount ban	-45	-0.1	-0.7	-1.0	-0.2	-214	-1.3	-0.8	-3.3	-6.1	-0.2	-0.6	-0.8	-1.6	-0.0	-18.1	+0.0
18 Minimum price 55p + total off-t discount ban	-58	-0.2	-0.9	-1.3	-0.3	-277	-1.7	-1.0	-4.3	-8.0	-0.3	-0.7	-1.1	-2.1	-0.0	-23.5	+0.0
19 Minimum price 60p + total off-t discount ban	-72	-0.2	-1.1	-1.6	-0.4	-342	-2.2	-1.3	-5.4	-9.9	-0.4	-0.9	-1.4	-2.6	-0.0	-29.4	+0.0
20 Minimum price 65p + total off-t discount ban	-87	-0.2	-1.3	-2.0	-0.5	-408	-2.6	-1.6	-6.5	-11.9	-0.4	-1.1	-1.6	-3.2	-0.0	-35.8	+0.0
21 Minimum price 70p + total off-t discount ban	-101	-0.3	-1.6	-2.3	-0.6	-474	-3.1	-1.9	-7.7	-14.0	-0.5	-1.3	-2.0	-3.8	-0.0	-42.8	+0.0

Table A9.7: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – harm analysis – hazardous drinkers

SUMMARY - HARMFUL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
1 Minimum price 25p	-0	-0.0	-0.0	-0.0	-0.0	-4	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.1	-0.0	-0.6	-0.1
2 Minimum price 30p	-2	-0.0	-0.0	-0.0	-0.0	-10	-0.1	-0.0	-0.2	-0.3	-0.0	-0.1	-0.1	-0.2	-0.0	-1.5	-0.2
3 Minimum price 35p	-4	-0.0	-0.1	-0.1	-0.0	-26	-0.2	-0.1	-0.5	-0.7	-0.1	-0.2	-0.2	-0.5	-0.0	-3.3	-0.4
4 Minimum price 40p	-9	-0.0	-0.1	-0.3	-0.1	-54	-0.4	-0.1	-1.1	-1.5	-0.1	-0.4	-0.5	-1.0	-0.0	-6.3	-0.7
5 Minimum price 45p	-16	-0.1	-0.2	-0.4	-0.1	-93	-0.7	-0.2	-1.8	-2.5	-0.2	-0.6	-0.8	-1.6	-0.0	-10.3	-1.2
6 Minimum price 50p	-24	-0.1	-0.4	-0.6	-0.1	-136	-1.1	-0.3	-2.6	-3.7	-0.3	-0.9	-1.1	-2.3	-0.0	-14.9	-1.7
7 Minimum price 55p	-32	-0.1	-0.5	-0.9	-0.2	-184	-1.5	-0.5	-3.4	-5.0	-0.4	-1.2	-1.5	-3.1	-0.0	-19.8	-2.2
8 Minimum price 60p	-40	-0.2	-0.6	-1.1	-0.2	-229	-1.8	-0.6	-4.2	-6.2	-0.5	-1.4	-1.8	-3.8	-0.0	-24.4	-2.7
9 Minimum price 65p	-48	-0.2	-0.7	-1.3	-0.3	-276	-2.1	-0.7	-5.1	-7.4	-0.6	-1.7	-2.2	-4.6	-0.0	-29.3	-3.1
10 Minimum price 70p	-57	-0.3	-0.8	-1.5	-0.3	-324	-2.5	-0.8	-5.9	-8.7	-0.7	-2.0	-2.6	-5.3	-0.0	-34.2	-3.5
11 Total off-trade discount ban	-8	-0.0	-0.1	-0.2	-0.0	-48	-0.4	-0.1	-0.9	-1.3	-0.1	-0.3	-0.4	-0.8	-0.0	-5.0	-0.6
12 Minimum price 25p + total off-t discount ban	-9	-0.0	-0.1	-0.2	-0.1	-51	-0.4	-0.1	-1.0	-1.4	-0.1	-0.3	-0.4	-0.8	-0.0	-5.5	-0.7
13 Minimum price 30p + total off-t discount ban	-10	-0.0	-0.1	-0.3	-0.1	-56	-0.5	-0.1	-1.1	-1.5	-0.1	-0.3	-0.4	-0.9	-0.0	-6.2	-0.7
14 Minimum price 35p + total off-t discount ban	-12	-0.1	-0.2	-0.3	-0.1	-70	-0.6	-0.2	-1.4	-1.9	-0.2	-0.4	-0.6	-1.1	-0.0	-7.7	-0.9
15 Minimum price 40p + total off-t discount ban	-16	-0.1	-0.2	-0.4	-0.1	-94	-0.8	-0.2	-1.8	-2.6	-0.2	-0.6	-0.8	-1.6	-0.0	-10.3	-1.2
16 Minimum price 45p + total off-t discount ban	-22	-0.1	-0.3	-0.6	-0.1	-126	-1.0	-0.3	-2.4	-3.4	-0.3	-0.8	-1.0	-2.1	-0.0	-13.7	-1.6
17 Minimum price 50p + total off-t discount ban	-29	-0.1	-0.4	-0.8	-0.2	-164	-1.3	-0.4	-3.1	-4.5	-0.4	-1.0	-1.3	-2.7	-0.0	-17.7	-2.0
18 Minimum price 55p + total off-t discount ban	-36	-0.2	-0.5	-1.0	-0.2	-206	-1.6	-0.5	-3.8	-5.6	-0.5	-1.3	-1.7	-3.4	-0.0	-22.1	-2.5
19 Minimum price 60p + total off-t discount ban	-43	-0.2	-0.6	-1.1	-0.3	-247	-1.9	-0.6	-4.6	-6.7	-0.6	-1.5	-2.0	-4.1	-0.0	-26.3	-2.9
20 Minimum price 65p + total off-t discount ban	-51	-0.2	-0.7	-1.3	-0.3	-290	-2.3	-0.7	-5.3	-7.8	-0.7	-1.8	-2.3	-4.9	-0.0	-30.9	-3.2
21 Minimum price 70p + total off-t discount ban	-59	-0.3	-0.9	-1.5	-0.3	-336	-2.6	-0.9	-6.1	-9.0	-0.8	-2.1	-2.7	-5.5	-0.0	-35.7	-3.6

Table A9.8: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – harm analysis – harmful drinkers



SUMMARY - TOTAL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs
1 Minimum price 25p	+0.3	-0	-0	-1.6	-1.4	+8	-0	-6	+2	-	-	-14	-12	+14	-	+2
2 Minimum price 30p	+0.0	-1	-1	-3.8	-4.1	+1	-1	-4.1	-2	-1	-1	-32	-36	-6	-1	-43
3 Minimum price 35p	-1.0	-5	-4	-8.7	-10.6	-2.7	-3	-13.5	-16	-4	-3	-72	-96	-69	-3	-167
4 Minimum price 40p	-2.8	-1.2	-1.0	-16.4	-21.4	-7.2	-7	-29.3	-42	-10	-8	-137	-196	-181	-7	-384
5 Minimum price 45p	-5.4	-2.2	-1.9	-26.5	-36.1	-14.1	-1.4	-51.6	-80	-18	-16	-221	-335	-347	-13	-695
6 Minimum price 50p	-8.7	-3.5	-3.1	-37.5	-52.8	-22.6	-2.2	-77.6	-126	-29	-26	-312	-493	-550	-21	-1,064
7 Minimum price 55p	-12.5	-4.9	-4.6	-48.6	-70.5	-32.6	-3.2	-106.3	-181	-41	-38	-404	-664	-785	-30	-1,478
8 Minimum price 60p	-16.5	-6.4	-6.0	-58.1	-86.9	-43.0	-4.2	-134.1	-237	-53	-50	-483	-823	-1,025	-39	-1,887
9 Minimum price 65p	-20.6	-8.0	-7.6	-67.4	-103.5	-53.8	-5.3	-162.6	-295	-66	-63	-560	-984	-1,269	-49	-2,303
10 Minimum price 70p	-24.7	-9.5	-9.2	-76.1	-119.6	-64.8	-6.4	-190.7	-353	-79	-77	-633	-1,142	-1,514	-59	-2,714
11 Total off-trade discount ban	-4.2	-1.8	-1.8	-13.9	-21.6	-11.0	-1.3	-33.9	-59	-15	-15	-115	-204	-260	-12	-476
12 Minimum price 25p + total off-t discount ban	-4.2	-1.8	-1.9	-15.2	-23.1	-11.2	-1.3	-35.6	-60	-15	-16	-127	-217	-265	-12	-494
13 Minimum price 30p + total off-t discount ban	-4.4	-1.9	-2.0	-17.0	-25.2	-11.7	-1.3	-38.3	-63	-16	-16	-141	-236	-278	-12	-526
14 Minimum price 35p + total off-t discount ban	-5.1	-2.1	-2.2	-21.0	-30.4	-13.5	-1.5	-45.4	-73	-18	-18	-175	-284	-322	-14	-619
15 Minimum price 40p + total off-t discount ban	-6.5	-2.7	-2.7	-27.4	-39.3	-17.2	-1.8	-58.3	-94	-22	-22	-228	-366	-413	-17	-796
16 Minimum price 45p + total off-t discount ban	-8.7	-3.5	-3.4	-35.5	-51.2	-22.8	-2.4	-76.4	-125	-29	-29	-295	-478	-547	-22	-1,047
17 Minimum price 50p + total off-t discount ban	-11.4	-4.6	-4.4	-44.7	-65.1	-30.0	-3.1	-98.1	-165	-38	-37	-372	-611	-717	-28	-1,356
18 Minimum price 55p + total off-t discount ban	-14.7	-5.8	-5.6	-54.0	-80.2	-38.6	-3.9	-122.7	-212	-48	-47	-449	-756	-920	-36	-1,712
19 Minimum price 60p + total off-t discount ban	-18.3	-7.2	-6.9	-62.4	-94.8	-48.0	-4.8	-147.5	-262	-59	-58	-519	-898	-1,133	-44	-2,075
20 Minimum price 65p + total off-t discount ban	-22.2	-8.6	-8.4	-70.9	-110.1	-58.2	-5.8	-174.0	-316	-72	-70	-589	-1,047	-1,362	-53	-2,462
21 Minimum price 70p + total off-t discount ban	-26.0	-10.1	-9.9	-79.0	-125.1	-68.2	-6.8	-200.1	-370	-84	-83	-657	-1,194	-1,589	-63	-2,846

Table A9.9: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – financial value – overall population

SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
1 Minimum price 25p	+0.3	+0	-0	+0	+3	+8	+0	+1.1	+3	+	-	+	+3	+15	+	+18
2 Minimum price 30p	+0.2	+0	-0	+0	+2	+5	+0	+8	+2	+	-	+	+2	+8	+	+10
3 Minimum price 35p	-0.2	+1	-1	+0	-2	-5	+1	-7	-3	+1	-1	+	-3	-12	+	-14
4 Minimum price 40p	-0.8	+0	-2	+0	-9	-1.9	+0	-2.8	-9	+	-2	+	-10	-40	+	-50
5 Minimum price 45p	-1.6	-1	-5	+0	-2.1	-4.0	-0	-6.1	-18	-	-4	+	-22	-82	-	-105
6 Minimum price 50p	-2.6	-2	-8	+0	-3.6	-6.6	-2	-10.4	-29	-2	-7	+	-38	-134	-2	-173
7 Minimum price 55p	-3.9	-4	-1.3	+0	-5.5	-9.8	-3	-15.7	-43	-3	-11	+	-58	-197	-3	-257
8 Minimum price 60p	-5.2	-6	-1.8	+0	-7.7	-13.4	-5	-21.6	-59	-5	-15	+	-79	-264	-5	-347
9 Minimum price 65p	-6.7	-9	-2.4	+0	-10.0	-17.3	-7	-28.0	-76	-7	-20	+	-103	-335	-7	-445
10 Minimum price 70p	-8.3	-1.2	-3.0	+0	-12.4	-21.3	-9	-34.7	-93	-10	-25	+	-127	-409	-9	-545
11 Total off-trade discount ban	-1.4	-3	-7	+0	-2.4	-3.7	-3	-6.4	-15	-3	-6	+	-24	-70	-3	-97
12 Minimum price 25p + total off-t discount ban	-1.4	-3	-7	+0	-2.4	-3.7	-3	-6.4	-15	-3	-6	+	-24	-71	-3	-97
13 Minimum price 30p + total off-t discount ban	-1.4	-3	-7	+0	-2.5	-3.8	-3	-6.5	-16	-3	-6	+	-24	-73	-2	-99
14 Minimum price 35p + total off-t discount ban	-1.6	-3	-8	+0	-2.7	-4.3	-2	-7.3	-18	-2	-6	+	-27	-83	-2	-112
15 Minimum price 40p + total off-t discount ban	-2.1	-3	-9	+0	-3.3	-5.4	-3	-8.9	-23	-3	-7	+	-33	-106	-2	-141
16 Minimum price 45p + total off-t discount ban	-2.8	-4	-1.1	+0	-4.2	-7.1	-3	-11.6	-31	-3	-9	+	-43	-140	-3	-185
17 Minimum price 50p + total off-t discount ban	-3.6	-5	-1.4	+0	-5.4	-9.3	-4	-15.1	-40	-4	-11	+	-56	-183	-4	-242
18 Minimum price 55p + total off-t discount ban	-4.7	-6	-1.7	+0	-7.1	-12.1	-5	-19.6	-52	-5	-14	+	-72	-237	-5	-313
19 Minimum price 60p + total off-t discount ban	-5.9	-8	-2.2	+0	-8.9	-15.3	-7	-24.9	-66	-7	-18	+	-91	-296	-6	-394
20 Minimum price 65p + total off-t discount ban	-7.4	-1.1	-2.7	+0	-11.2	-19.0	-9	-31.1	-83	-9	-22	+	-114	-365	-8	-487
21 Minimum price 70p + total off-t discount ban	-8.7	-1.3	-3.2	+0	-13.3	-22.6	-1.1	-37.0	-98	-11	-27	+	-136	-430	-10	-576

Table A9.10: Summary tables for sensitivity analysis protective effects of alcohol for CHD – financial value – moderate drinkers

SUMMARY - HAZARDOUS	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
1 Minimum price 25p	+0.1	+0	+0	+0	+1	+2	+0	+3	+1	+	+	+	+1	+4	+	+5
2 Minimum price 30p	+0.0	+0	+0	+0	+0	+1	+0	+1	-	+	+	+	-	-1	+	-1
3 Minimum price 35p	-0.3	-1	-1	+0	-4	-7	-0	-1.1	-4	-1	-	+	-6	-20	-	-26
4 Minimum price 40p	-0.9	-2	-2	+0	-1.4	-2.3	-1	-3.9	-15	-2	-2	+	-19	-65	-1	-85
5 Minimum price 45p	-2.0	-6	-6	+0	-3.1	-5.1	-4	-8.6	-31	-5	-5	+	-41	-137	-3	-181
6 Minimum price 50p	-3.4	-1.0	-1.1	+0	-5.4	-8.7	-6	-14.7	-52	-8	-9	+	-69	-228	-6	-302
7 Minimum price 55p	-5.0	-1.5	-1.6	+0	-8.0	-12.9	-1.0	-21.9	-77	-12	-13	+	-102	-335	-9	-446
8 Minimum price 60p	-6.7	-2.0	-2.2	+0	-10.8	-17.3	-1.3	-29.4	-103	-16	-18	+	-137	-446	-12	-595
9 Minimum price 65p	-8.4	-2.5	-2.8	+0	-13.6	-21.8	-1.6	-37.0	-129	-21	-23	+	-173	-556	-15	-743
10 Minimum price 70p	-10.0	-3.0	-3.4	+0	-16.4	-26.2	-2.0	-44.6	-155	-25	-28	+	-208	-662	-18	-888
11 Total off-trade discount ban	-1.8	-6	-7	+0	-3.2	-4.7	-5	-8.4	-28	-5	-6	+	-39	-123	-4	-166
12 Minimum price 25p + total off-t discount ban	-1.8	-6	-7	+0	-3.1	-4.7	-5	-8.3	-28	-5	-6	+	-39	-123	-4	-166
13 Minimum price 30p + total off-t discount ban	-1.8	-7	-7	+0	-3.2	-4.9	-5	-8.5	-28	-5	-6	+	-40	-126	-4	-171
14 Minimum price 35p + total off-t discount ban	-2.1	-7	-8	+0	-3.5	-5.4	-5	-9.4	-32	-6	-6	+	-44	-141	-4	-189
15 Minimum price 40p + total off-t discount ban	-2.6	-8	-9	+0	-4.3	-6.7	-6	-11.6	-40	-7	-8	+	-54	-176	-5	-236
16 Minimum price 45p + total off-t discount ban	-3.4	-1.1	-1.2	+0	-5.7	-8.9	-7	-15.3	-53	-9	-10	+	-72	-232	-7	-310
17 Minimum price 50p + total off-t discount ban	-4.6	-1.4	-1.6	+0	-7.5	-11.9	-9	-20.3	-70	-12	-13	+	-95	-307	-9	-411
18 Minimum price 55p + total off-t discount ban	-5.9	-1.8	-2.0	+0	-9.8	-15.5	-1.2	-26.4	-92	-15	-17	+	-123	-399	-11	-533
19 Minimum price 60p + total off-t discount ban	-7.5	-2.2	-2.5	+0	-12.2	-19.5	-1.5	-33.2	-115	-19	-21	+	-155	-497	-14	-666
20 Minimum price 65p + total off-t discount ban	-9.0	-2.7	-3.1	+0	-14.8	-23.6	-1.8	-40.2	-139	-22	-25	+	-187	-597	-17	-801
21 Minimum price 70p + total off-t discount ban	-10.6	-3.2	-3.7	+0	-17.5	-27.7	-2.1	-47.3	-163	-27	-30	+	-221	-698	-20	-938

Table A9.11: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – financial value – hazardous drinkers

SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
1 Minimum price 25p	-0.1	-0	-1	-1.6	-1.8	-2	-0	-2.0	-1	-	-	-14	-16	-5	-	-21
2 Minimum price 30p	-0.2	-2	-1	-3.8	-4.3	-6	-1	-5.0	-3	-1	-1	-32	-38	-14	-1	-52
3 Minimum price 35p	-0.5	-4	-3	-8.7	-9.9	-1.5	-3	-11.7	-9	-4	-2	-72	-87	-37	-3	-127
4 Minimum price 40p	-1.1	-9	-5	-16.4	-18.9	-2.9	-6	-22.4	-18	-7	-4	-137	-166	-75	-5	-247
5 Minimum price 45p	-1.8	-1.4	-9	-26.5	-30.6	-4.8	-9	-36.3	-30	-12	-7	-221	-270	-127	-8	-405
6 Minimum price 50p	-2.6	-2.0	-1.2	-37.5	-43.4	-7.0	-1.3	-51.7	-44	-17	-10	-312	-383	-186	-12	-581
7 Minimum price 55p	-3.5	-2.6	-1.6	-48.6	-56.4	-9.5	-1.7	-67.6	-59	-22	-14	-404	-499	-250	-16	-765
8 Minimum price 60p	-4.4	-3.3	-2.0	-58.1	-67.8	-11.8	-2.1	-81.7	-73	-27	-17	-483	-601	-310	-20	-931
9 Minimum price 65p	-5.3	-4.0	-2.4	-67.4	-79.0	-14.1	-2.6	-95.7	-88	-33	-20	-560	-702	-372	-24	-1,097
10 Minimum price 70p	-6.1	-4.6	-2.8	-76.1	-89.6	-16.4	-3.0	-109.0	-103	-38	-24	-633	-797	-435	-27	-1,260
11 Total off-trade discount ban	-0.9	-7	-4	-13.9	-15.8	-2.4	-4	-18.7	-15	-5	-4	-115	-140	-65	-4	-209
12 Minimum price 25p + total off-t discount ban	-1.0	-7	-5	-15.2	-17.4	-2.6	-5	-20.5	-17	-6	-4	-127	-153	-70	-4	-228
13 Minimum price 30p + total off-t discount ban	-1.1	-8	-5	-17.0	-19.4	-2.9	-5	-22.8	-18	-6	-4	-141	-171	-77	-5	-253
14 Minimum price 35p + total off-t discount ban	-1.3	-1.0	-7	-21.0	-24.0	-3.6	-6	-28.2	-23	-8	-6	-175	-211	-96	-6	-314
15 Minimum price 40p + total off-t discount ban	-1.8	-1.3	-9	-27.4	-31.4	-4.8	-9	-37.1	-31	-11	-7	-228	-277	-129	-8	-414
16 Minimum price 45p + total off-t discount ban	-2.4	-1.8	-1.2	-35.5	-40.9	-6.5	-1.2	-48.6	-41	-15	-10	-295	-361	-172	-11	-544
17 Minimum price 50p + total off-t discount ban	-3.1	-2.3	-1.5	-44.7	-51.6	-8.4	-1.5	-61.6	-53	-19	-12	-372	-456	-223	-14	-693
18 Minimum price 55p + total off-t discount ban	-4.0	-2.9	-1.9	-54.0	-62.8	-10.6	-1.9	-75.3	-66	-24	-15	-449	-555	-280	-18	-853
19 Minimum price 60p + total off-t discount ban	-4.7	-3.5	-2.2	-62.4	-72.8	-12.6	-2.3	-87.8	-79	-29	-18	-519	-646	-334	-21	-1,001
20 Minimum price 65p + total off-t discount ban	-5.5	-4.2	-2.6	-70.9	-83.2	-14.8	-2.7	-100.7	-93	-35	-21	-589	-738	-392	-25	-1,155
21 Minimum price 70p + total off-t discount ban	-6.4	-4.8	-3.0	-79.0	-93.1	-17.1	-3.1	-113.3	-107	-40	-25	-657	-828	-452	-29	-1,310

Table A9.12: Summary tables for sensitivity analysis – protective effects of alcohol for CHD – financial value – harmful drinkers

**Appendix 10: Summary tables for sensitivity analysis – higher crime AAFs**

SUMMARY - TOTAL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consumption.
1 Minimum price 25p	-0.1%	-2.0	+0.9	+0.2	+0.0	-0.9	+4.7	+3.1	-0.1	+0.9	+8.7	+0.4%	+2.29	+1.28
2 Minimum price 30p	-0.3%	-4.6	+1.8	+0.1	+0.0	-2.7	+11.0	+7.6	-0.8	+2.3	+20.1	+0.9%	+5.32	+3.46
3 Minimum price 35p	-1.0%	-7.4	+2.4	-3.0	+0.0	-7.8	+23.7	+14.9	-3.8	+4.5	+39.3	+1.7%	+10.38	+8.64
4 Minimum price 40p	-2.3%	-10.3	+1.3	-9.1	+0.1	-18.0	+43.1	+25.0	-10.0	+7.6	+65.7	+2.8%	+17.34	+18.11
5 Minimum price 45p	-4.3%	-13.6	-3.1	-16.9	+0.1	-33.5	+67.3	+36.7	-19.5	+11.1	+95.6	+4.1%	+25.24	+32.15
6 Minimum price 50p	-6.7%	-17.2	-9.5	-25.7	+0.1	-52.3	+90.8	+49.2	-31.4	+14.9	+123.4	+5.2%	+32.56	+48.91
7 Minimum price 55p	-9.5%	-20.9	-18.1	-35.2	+0.1	-74.1	+112.1	+62.5	-46.0	+18.9	+147.6	+6.3%	+38.95	+68.41
8 Minimum price 60p	-12.3%	-23.2	-27.8	-45.2	+0.0	-96.2	+130.3	+76.7	-61.4	+23.0	+168.7	+7.2%	+44.52	+89.53
9 Minimum price 65p	-15.3%	-25.2	-38.8	-55.5	-0.0	-119.6	+142.8	+92.2	-78.5	+27.3	+183.8	+7.8%	+48.51	+112.28
10 Minimum price 70p	-18.4%	-27.1	-50.3	-66.1	-0.2	-143.7	+148.0	+108.5	-97.2	+31.6	+190.9	+8.1%	+50.39	+136.04
11 Total off-trade discount ban	-3.1%	-6.3	-13.9	-4.0	-0.2	-24.3	+48.4	+11.5	-10.5	+3.5	+53.0	+2.3%	+13.99	+24.03
12 Minimum price 25p + total off-t discount ban	-3.2%	-8.0	-13.2	-3.8	-0.1	-25.2	+51.9	+14.0	-10.7	+4.3	+59.5	+2.5%	+15.70	+25.07
13 Minimum price 30p + total off-t discount ban	-3.4%	-9.9	-12.6	-4.0	-0.1	-26.6	+56.3	+17.5	-11.4	+5.3	+67.7	+2.9%	+17.87	+26.72
14 Minimum price 35p + total off-t discount ban	-4.0%	-11.8	-12.3	-6.8	-0.1	-31.0	+66.0	+23.7	-14.2	+7.2	+82.7	+3.5%	+21.83	+30.90
15 Minimum price 40p + total off-t discount ban	-5.1%	-13.8	-13.3	-12.4	-0.1	-39.6	+80.7	+32.4	-19.8	+9.9	+103.2	+4.4%	+27.25	+38.62
16 Minimum price 45p + total off-t discount ban	-6.7%	-16.3	-16.5	-19.3	-0.1	-52.3	+97.8	+42.8	-28.2	+13.0	+125.4	+5.3%	+33.09	+49.94
17 Minimum price 50p + total off-t discount ban	-8.7%	-19.3	-21.5	-27.3	-0.1	-68.2	+114.1	+54.2	-39.2	+16.4	+145.6	+6.2%	+38.42	+63.91
18 Minimum price 55p + total off-t discount ban	-11.2%	-22.4	-28.5	-36.2	-0.1	-87.2	+128.7	+66.6	-52.6	+20.1	+162.8	+6.9%	+42.98	+80.63
19 Minimum price 60p + total off-t discount ban	-13.7%	-24.2	-36.9	-45.9	-0.1	-107.1	+141.7	+80.1	-67.3	+24.0	+178.6	+7.6%	+47.13	+99.67
20 Minimum price 65p + total off-t discount ban	-16.5%	-25.8	-46.8	-56.1	-0.2	-129.0	+150.1	+95.1	-83.9	+28.2	+189.4	+8.1%	+50.00	+120.93
21 Minimum price 70p + total off-t discount ban	-19.5%	-27.4	-57.6	-66.6	-0.3	-151.9	+152.0	+111.1	-102.4	+32.4	+193.1	+8.2%	+50.97	+143.52

**Table A10.1: Summary tables for sensitivity analysis – higher crime AAFs – consumption analysis – overall population**

SUMMARY - MODERATE	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	+0.0%	-0.2	+0.1	+0.1	+0.0	+0.0	+0.7	+0.7	+0.0	+0.2	+1.7	+0.2%	+0.69	+0.29
2 Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.1	+1.7	+1.7	-0.0	+0.5	+3.8	+0.5%	+1.51	+0.77
3 Minimum price 35p	-0.3%	-0.2	-0.1	-0.6	+0.0	-1.0	+4.0	+3.3	-0.4	+1.0	+7.9	+1.0%	+3.11	+2.06
4 Minimum price 40p	-0.9%	-0.0	-0.8	-2.1	+0.0	-2.9	+7.9	+5.5	-1.2	+1.6	+13.8	+1.8%	+5.46	+4.55
5 Minimum price 45p	-2.0%	+0.2	-2.5	-3.9	+0.0	-6.2	+13.5	+8.0	-2.4	+2.4	+21.5	+2.8%	+8.48	+8.58
6 Minimum price 50p	-3.3%	+0.3	-4.9	-5.8	+0.0	-10.4	+19.8	+10.7	-3.9	+3.2	+29.7	+3.8%	+11.71	+13.66
7 Minimum price 55p	-5.0%	+0.4	-8.1	-8.1	+0.1	-15.7	+26.7	+13.5	-5.9	+4.0	+38.3	+4.9%	+15.12	+19.98
8 Minimum price 60p	-6.8%	+0.4	-11.5	-10.5	+0.1	-21.5	+33.0	+16.5	-8.2	+4.9	+46.3	+5.9%	+18.25	+26.91
9 Minimum price 65p	-8.8%	+0.4	-15.4	-13.0	+0.1	-27.9	+38.7	+19.9	-10.9	+5.8	+53.5	+6.9%	+21.12	+34.59
10 Minimum price 70p	-10.9%	+0.4	-19.4	-15.6	+0.1	-34.5	+43.1	+23.6	-13.8	+6.8	+59.6	+7.6%	+23.52	+42.62
11 Total off-trade discount ban	-2.1%	-0.4	-5.1	-0.9	-0.0	-6.5	+12.3	+2.3	-1.4	+0.7	+13.9	+1.8%	+5.47	+8.43
12 Minimum price 25p + total off-t discount ban	-2.1%	-0.6	-5.0	-0.9	-0.0	-6.5	+12.9	+2.9	-1.4	+0.9	+15.3	+2.0%	+6.03	+8.68
13 Minimum price 30p + total off-t discount ban	-2.1%	-0.7	-5.1	-0.9	-0.0	-6.7	+13.6	+3.6	-1.4	+1.1	+16.9	+2.2%	+6.67	+9.06
14 Minimum price 35p + total off-t discount ban	-2.3%	-0.6	-5.3	-1.5	-0.0	-7.4	+15.5	+5.0	-1.8	+1.5	+20.3	+2.6%	+8.00	+10.16
15 Minimum price 40p + total off-t discount ban	-2.9%	-0.4	-5.8	-2.9	+0.0	-9.1	+18.7	+7.0	-2.5	+2.1	+25.2	+3.2%	+9.96	+12.27
16 Minimum price 45p + total off-t discount ban	-3.7%	-0.2	-7.1	-4.5	+0.0	-11.8	+22.9	+9.2	-3.6	+2.8	+31.3	+4.0%	+12.33	+15.52
17 Minimum price 50p + total off-t discount ban	-4.8%	+0.0	-8.9	-6.3	+0.0	-15.2	+27.5	+11.7	-5.0	+3.5	+37.6	+4.8%	+14.84	+19.68
18 Minimum price 55p + total off-t discount ban	-6.2%	+0.2	-11.5	-8.4	+0.0	-19.7	+32.6	+14.4	-6.9	+4.3	+44.4	+5.7%	+17.50	+24.98
19 Minimum price 60p + total off-t discount ban	-7.9%	+0.3	-14.4	-10.7	+0.0	-24.9	+37.5	+17.3	-9.1	+5.1	+50.8	+6.5%	+20.04	+31.11
20 Minimum price 65p + total off-t discount ban	-9.7%	+0.3	-17.9	-13.2	+0.0	-30.8	+42.0	+20.6	-11.7	+6.0	+56.8	+7.3%	+22.41	+38.18
21 Minimum price 70p + total off-t discount ban	-11.7%	+0.4	-21.6	-15.8	+0.1	-37.0	+45.5	+24.1	-14.6	+6.9	+61.9	+7.9%	+24.43	+45.75

Table A10.2: Summary tables for sensitivity analysis – higher crime AAFs – consumption analysis – moderate drinkers

SUMMARY - HAZARDOUS	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	+0.0%	-2.6	+2.6	+0.4	+0.0	+0.5	+1.9	+1.6	+0.2	+0.5	+4.1	+0.4%	+4.82	+1.88
2 Minimum price 30p	-0.0%	-6.0	+5.4	+0.3	+0.0	-0.3	+4.5	+3.8	+0.2	+1.2	+9.7	+1.0%	+11.43	+5.45
3 Minimum price 35p	-0.4%	-9.2	+7.7	-4.3	+0.1	-5.7	+9.4	+7.4	-0.6	+2.2	+18.5	+2.0%	+21.82	+13.66
4 Minimum price 40p	-1.4%	-12.4	+5.9	-14.0	+0.1	-20.3	+17.4	+12.4	-2.7	+3.8	+31.0	+3.3%	+36.53	+30.11
5 Minimum price 45p	-3.2%	-16.2	-3.4	-26.9	+0.1	-46.4	+27.8	+18.4	-6.3	+5.6	+45.4	+4.9%	+53.55	+55.94
6 Minimum price 50p	-5.6%	-20.2	-17.5	-42.1	+0.1	-79.8	+38.1	+24.8	-11.2	+7.6	+59.2	+6.4%	+69.79	+87.44
7 Minimum price 55p	-8.4%	-24.5	-36.9	-58.7	+0.0	-120.1	+47.3	+31.6	-17.4	+9.6	+71.2	+7.6%	+83.89	+124.10
8 Minimum price 60p	-11.3%	-26.7	-58.9	-76.3	-0.0	-161.9	+54.7	+38.9	-24.1	+11.7	+81.2	+8.7%	+95.79	+163.70
9 Minimum price 65p	-14.4%	-27.4	-83.2	-94.5	-0.1	-205.2	+59.8	+46.6	-31.4	+13.9	+89.0	+9.6%	+104.89	+206.13
10 Minimum price 70p	-17.6%	-28.7	-108.8	-113.5	-0.2	-251.2	+61.3	+54.8	-39.7	+16.2	+92.6	+9.9%	+109.15	+250.57
11 Total off-trade discount ban	-3.3%	-9.9	-29.2	-7.8	-0.2	-47.2	+19.9	+5.9	-4.9	+1.8	+22.6	+2.4%	+26.64	+45.39
12 Minimum price 25p + total off-t discount ban	-3.3%	-12.0	-27.3	-7.5	-0.2	-47.0	+21.2	+7.1	-4.8	+2.2	+25.7	+2.8%	+30.29	+46.92
13 Minimum price 30p + total off-t discount ban	-3.3%	-14.4	-25.5	-7.8	-0.2	-47.9	+23.1	+8.9	-4.9	+2.7	+29.8	+3.2%	+35.09	+49.58
14 Minimum price 35p + total off-t discount ban	-3.7%	-16.4	-24.0	-11.9	-0.2	-52.5	+26.9	+11.9	-5.6	+3.6	+36.8	+3.9%	+43.33	+56.12
15 Minimum price 40p + total off-t discount ban	-4.5%	-18.1	-25.5	-20.7	-0.1	-64.5	+32.9	+16.2	-7.5	+5.0	+46.5	+5.0%	+54.87	+69.27
16 Minimum price 45p + total off-t discount ban	-6.0%	-20.6	-32.3	-32.1	-0.1	-85.1	+40.0	+21.5	-10.7	+6.6	+57.3	+6.2%	+67.59	+89.65
17 Minimum price 50p + total off-t discount ban	-7.9%	-23.7	-43.2	-45.7	-0.1	-112.6	+47.0	+27.3	-15.1	+8.3	+67.5	+7.2%	+79.59	+115.47
18 Minimum price 55p + total off-t discount ban	-10.3%	-27.1	-58.8	-60.9	-0.2	-146.9	+53.1	+33.6	-20.7	+10.2	+76.2	+8.2%	+89.87	+146.57
19 Minimum price 60p + total off-t discount ban	-12.9%	-28.5	-77.7	-77.9	-0.2	-184.2	+58.3	+40.5	-27.1	+12.2	+83.9	+9.0%	+98.92	+182.13
20 Minimum price 65p + total off-t discount ban	-15.7%	-28.5	-99.9	-95.9	-0.3	-224.5	+61.6	+48.0	-34.2	+14.3	+89.7	+9.6%	+105.77	+221.73
21 Minimum price 70p + total off-t discount ban	-18.8%	-29.3	-123.9	-114.6	-0.4	-268.2	+61.6	+56.0	-42.3	+16.5	+91.8	+9.9%	+108.27	+263.96

Table A10.3: Summary tables for sensitivity analysis – higher crime AAFs – consumption analysis – hazardous drinkers

SUMMARY - HARMFUL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	Policy Scenario	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.
1 Minimum price 25p	-0.4%	-20.8	+4.1	+1.0	+0.0	-15.7	+2.1	+0.8	-0.3	+0.2	+2.8	+0.5%	+11.82	+10.38
2 Minimum price 30p	-1.1%	-48.4	+9.1	-0.5	+0.1	-39.6	+4.8	+2.1	-1.0	+0.6	+6.5	+1.1%	+27.12	+27.04
3 Minimum price 35p	-2.5%	-81.4	+12.8	-24.7	+0.2	-93.1	+10.1	+4.1	-2.8	+1.3	+12.7	+2.1%	+52.82	+65.45
4 Minimum price 40p	-4.8%	-118.4	+8.1	-70.3	+0.3	-180.3	+17.4	+6.9	-6.1	+2.1	+20.3	+3.4%	+84.64	+129.00
5 Minimum price 45p	-7.9%	-159.0	-9.2	-128.5	+0.4	-296.3	+25.3	+10.1	-10.7	+3.1	+27.8	+4.6%	+115.72	+214.63
6 Minimum price 50p	-11.4%	-202.9	-33.9	-192.0	+0.5	-428.2	+31.8	+13.4	-16.2	+4.1	+33.1	+5.5%	+138.08	+311.61
7 Minimum price 55p	-15.3%	-246.5	-67.6	-258.9	+0.4	-572.6	+36.7	+17.0	-22.5	+5.1	+36.3	+6.0%	+151.28	+419.97
8 Minimum price 60p	-18.9%	-275.0	-106.6	-327.7	-0.5	-709.7	+40.7	+20.8	-28.8	+6.2	+39.0	+6.5%	+162.44	+536.82
9 Minimum price 65p	-22.8%	-303.6	-151.4	-398.0	-1.6	-854.6	+42.2	+25.0	-35.8	+7.4	+38.7	+6.5%	+161.37	+660.82
10 Minimum price 70p	-26.7%	-327.9	-199.4	-469.9	-3.1	-1000.3	+41.2	+29.3	-43.2	+8.5	+35.8	+6.0%	+149.12	+789.78
11 Total off-trade discount ban	-3.9%	-59.4	-59.8	-24.9	-1.4	-145.5	+15.6	+3.3	-4.2	+1.0	+15.8	+2.6%	+65.64	+124.91
12 Minimum price 25p + total off-t discount ban	-4.2%	-76.0	-57.3	-24.3	-1.3	-158.8	+17.1	+3.9	-4.5	+1.2	+17.7	+3.0%	+73.93	+133.26
13 Minimum price 30p + total off-t discount ban	-4.7%	-96.8	-54.0	-25.8	-1.3	-177.9	+18.8	+4.9	-5.0	+1.5	+20.2	+3.4%	+84.13	+145.77
14 Minimum price 35p + total off-t discount ban	-5.9%	-121.3	-51.8	-48.1	-1.2	-222.4	+22.7	+6.6	-6.7	+2.0	+24.7	+4.1%	+102.89	+176.32
15 Minimum price 40p + total off-t discount ban	-7.9%	-149.5	-56.1	-89.6	-1.2	-296.4	+28.1	+9.0	-9.7	+2.8	+30.2	+5.0%	+125.95	+228.48
16 Minimum price 45p + total off-t discount ban	-10.5%	-182.6	-69.3	-141.9	-1.0	-394.8	+33.6	+11.8	-13.8	+3.6	+35.3	+5.9%	+147.04	+299.06
17 Minimum price 50p + total off-t discount ban	-13.6%	-220.3	-89.0	-200.2	-0.9	-510.4	+38.1	+14.9	-18.9	+4.5	+38.6	+6.4%	+160.90	+382.15
18 Minimum price 55p + total off-t discount ban	-17.1%	-258.3	-116.6	-263.5	-1.0	-639.4	+41.1	+18.3	-24.8	+5.5	+40.1	+6.7%	+167.00	+477.62
19 Minimum price 60p + total off-t discount ban	-20.4%	-282.1	-150.6	-330.8	-1.9	-765.4	+43.8	+21.9	-30.8	+6.5	+41.4	+6.9%	+172.44	+584.73
20 Minimum price 65p + total off-t discount ban	-24.1%	-307.6	-191.5	-400.6	-2.9	-902.6	+44.1	+25.9	-37.6	+7.6	+40.0	+6.7%	+166.81	+701.84
21 Minimum price 70p + total off-t discount ban	-27.8%	-329.7	-236.1	-472.2	-4.3	-1042.3	+42.2	+30.2	-44.9	+8.7	+36.2	+6.0%	+150.74	+825.25

Table A10.4: Summary tables for sensitivity analysis – higher crime AAFs – consumption analysis – harmful drinkers



SUMMARY - TOTAL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+6	-0.0	+0.1	+0.1	+0.0	+2	-0.0	+0.1	-0.0	+0.3	-0.0	-0.0	-0.1	-0.2	-0.0	-0.5	-0.1
2 Minimum price 30p	+2	-0.0	+0.0	-0.0	+0.0	-10	-0.1	+0.0	-0.2	-0.2	-0.0	-0.1	-0.3	-0.5	-0.0	-1.6	-0.2
3 Minimum price 35p	-9	-0.0	-0.1	-0.2	-0.1	-47	-0.4	-0.2	-0.9	-1.5	-0.2	-0.4	-0.9	-1.4	-0.0	-4.9	-0.4
4 Minimum price 40p	-26	-0.1	-0.4	-0.6	-0.1	-119	-0.9	-0.4	-2.2	-3.9	-0.4	-0.9	-2.0	-3.3	-0.0	-11.8	-0.7
5 Minimum price 45p	-50	-0.2	-0.8	-1.2	-0.3	-225	-1.7	-0.9	-4.2	-7.4	-0.8	-1.6	-3.6	-6.1	-0.0	-22.9	-1.2
6 Minimum price 50p	-80	-0.3	-1.3	-2.0	-0.5	-352	-2.6	-1.4	-6.5	-11.7	-1.3	-2.5	-5.5	-9.3	-0.1	-36.9	-1.7
7 Minimum price 55p	-114	-0.4	-1.9	-2.8	-0.7	-497	-3.6	-2.1	-9.2	-16.6	-1.8	-3.5	-7.7	-13.0	-0.1	-53.6	-2.2
8 Minimum price 60p	-150	-0.5	-2.5	-3.7	-0.9	-640	-4.7	-2.7	-12.0	-21.7	-2.4	-4.5	-9.9	-16.9	-0.1	-70.5	-2.7
9 Minimum price 65p	-185	-0.6	-3.1	-4.6	-1.1	-785	-5.8	-3.4	-14.8	-26.8	-3.0	-5.6	-12.3	-21.0	-0.2	-88.8	-3.1
10 Minimum price 70p	-221	-0.7	-3.8	-5.6	-1.3	-926	-6.9	-4.1	-17.6	-32.0	-3.6	-6.7	-14.7	-25.0	-0.2	-108.0	-3.5
11 Total off-trade discount ban	-37	-0.1	-0.6	-0.9	-0.2	-162	-1.2	-0.7	-3.0	-5.5	-0.7	-1.2	-2.8	-4.7	-0.0	-20.5	-0.6
12 Minimum price 25p + total off-t discount ban	-37	-0.1	-0.6	-1.0	-0.2	-166	-1.2	-0.7	-3.0	-5.6	-0.7	-1.3	-2.9	-4.8	-0.0	-21.0	-0.7
13 Minimum price 30p + total off-t discount ban	-39	-0.1	-0.7	-1.0	-0.2	-174	-1.3	-0.7	-3.2	-5.9	-0.7	-1.3	-3.0	-5.0	-0.0	-21.9	-0.7
14 Minimum price 35p + total off-t discount ban	-46	-0.1	-0.8	-1.2	-0.3	-203	-1.5	-0.8	-3.8	-6.8	-0.8	-1.5	-3.4	-5.7	-0.0	-24.8	-0.9
15 Minimum price 40p + total off-t discount ban	-59	-0.2	-1.0	-1.5	-0.3	-261	-1.9	-1.1	-4.8	-8.7	-1.0	-1.9	-4.3	-7.2	-0.1	-30.5	-1.2
16 Minimum price 45p + total off-t discount ban	-79	-0.2	-1.3	-2.0	-0.5	-344	-2.5	-1.4	-6.4	-11.6	-1.3	-2.5	-5.6	-9.4	-0.1	-39.6	-1.6
17 Minimum price 50p + total off-t discount ban	-103	-0.3	-1.7	-2.6	-0.6	-450	-3.3	-1.9	-8.4	-15.2	-1.7	-3.3	-7.2	-12.2	-0.1	-51.2	-2.0
18 Minimum price 55p + total off-t discount ban	-133	-0.4	-2.2	-3.3	-0.8	-575	-4.2	-2.4	-10.7	-19.4	-2.2	-4.1	-9.1	-15.4	-0.1	-65.4	-2.5
19 Minimum price 60p + total off-t discount ban	-165	-0.5	-2.8	-4.1	-1.0	-702	-5.2	-3.0	-13.2	-23.9	-2.7	-5.1	-11.1	-18.9	-0.2	-80.6	-2.9
20 Minimum price 65p + total off-t discount ban	-198	-0.6	-3.4	-5.0	-1.2	-836	-6.2	-3.7	-15.8	-28.8	-3.2	-6.1	-13.4	-22.7	-0.2	-97.5	-3.2
21 Minimum price 70p + total off-t discount ban	-231	-0.7	-3.9	-5.9	-1.4	-969	-7.2	-4.3	-18.5	-33.6	-3.8	-7.1	-15.7	-26.6	-0.2	-115.6	-3.6

Table A10.5: Summary tables for sensitivity analysis – higher crime AAFs – harm analysis – overall population

SUMMARY - MODERATE	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
Policy Scenario																	
1 Minimum price 25p	+5	+0.0	+0.1	+0.1	+0.0	+5	-0.0	+0.1	+0.1	+0.3	+0.0	+0.0	+0.0	+0.0	+0.0	-0.0	+0.0
2 Minimum price 30p	+3	-0.0	+0.0	+0.0	+0.0	+3	-0.0	+0.0	+0.0	+0.2	+0.0	+0.0	+0.1	+0.1	+0.0	-0.2	+0.0
3 Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-1	-0.0	-0.0	-0.1	-0.3	+0.0	+0.0	+0.1	+0.2	+0.0	-0.8	+0.0
4 Minimum price 40p	-5	-0.0	-0.1	-0.2	-0.0	-6	-0.1	-0.1	-0.3	-0.8	+0.0	+0.0	+0.1	+0.1	+0.0	-2.3	+0.0
5 Minimum price 45p	-12	-0.0	-0.3	-0.3	-0.1	-14	-0.2	-0.3	-0.6	-1.7	-0.0	-0.0	-0.1	-0.1	-0.0	-5.2	+0.0
6 Minimum price 50p	-19	-0.0	-0.4	-0.5	-0.1	-22	-0.3	-0.5	-1.0	-2.8	-0.1	-0.1	-0.2	-0.4	-0.0	-9.1	+0.0
7 Minimum price 55p	-29	-0.0	-0.7	-0.8	-0.2	-33	-0.4	-0.7	-1.5	-4.1	-0.2	-0.2	-0.5	-0.8	-0.0	-14.2	+0.0
8 Minimum price 60p	-39	-0.1	-0.9	-1.1	-0.3	-44	-0.6	-0.9	-2.1	-5.6	-0.2	-0.3	-0.7	-1.3	-0.0	-19.7	+0.0
9 Minimum price 65p	-49	-0.1	-1.1	-1.4	-0.3	-56	-0.7	-1.2	-2.7	-7.1	-0.3	-0.5	-1.1	-1.9	-0.0	-25.9	+0.0
10 Minimum price 70p	-60	-0.1	-1.4	-1.7	-0.4	-68	-0.9	-1.5	-3.3	-8.6	-0.4	-0.6	-1.4	-2.5	-0.0	-32.3	+0.0
11 Total off-trade discount ban	-10	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.2	-0.5	-1.5	-0.1	-0.2	-0.4	-0.8	-0.0	-7.3	+0.0
12 Minimum price 25p + total off-t discount ban	-10	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.2	-0.5	-1.5	-0.1	-0.2	-0.4	-0.7	-0.0	-7.4	+0.0
13 Minimum price 30p + total off-t discount ban	-10	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.3	-0.5	-1.5	-0.1	-0.2	-0.4	-0.7	-0.0	-7.5	+0.0
14 Minimum price 35p + total off-t discount ban	-12	-0.0	-0.3	-0.3	-0.1	-14	-0.2	-0.3	-0.6	-1.7	-0.1	-0.2	-0.4	-0.6	-0.0	-8.1	+0.0
15 Minimum price 40p + total off-t discount ban	-15	-0.0	-0.4	-0.4	-0.1	-18	-0.2	-0.4	-0.8	-2.2	-0.1	-0.2	-0.4	-0.7	-0.0	-9.3	+0.0
16 Minimum price 45p + total off-t discount ban	-20	-0.0	-0.5	-0.6	-0.1	-24	-0.3	-0.5	-1.1	-2.9	-0.1	-0.2	-0.5	-0.8	-0.0	-11.6	+0.0
17 Minimum price 50p + total off-t discount ban	-26	-0.0	-0.6	-0.8	-0.2	-31	-0.4	-0.6	-1.4	-3.9	-0.2	-0.3	-0.6	-1.0	-0.0	-14.7	+0.0
18 Minimum price 55p + total off-t discount ban	-34	-0.1	-0.8	-1.0	-0.2	-40	-0.5	-0.8	-1.8	-5.0	-0.2	-0.3	-0.8	-1.4	-0.0	-18.8	+0.0
19 Minimum price 60p + total off-t discount ban	-43	-0.1	-1.0	-1.2	-0.3	-50	-0.6	-1.1	-2.3	-6.2	-0.3	-0.4	-1.0	-1.8	-0.0	-23.7	+0.0
20 Minimum price 65p + total off-t discount ban	-54	-0.1	-1.3	-1.5	-0.4	-61	-0.8	-1.3	-2.9	-7.7	-0.4	-0.6	-1.3	-2.3	-0.0	-29.4	+0.0
21 Minimum price 70p + total off-t discount ban	-63	-0.1	-1.5	-1.8	-0.5	-71	-0.9	-1.6	-3.4	-9.1	-0.5	-0.7	-1.6	-2.9	-0.0	-35.4	+0.0

Table A10.6: Summary tables for sensitivity analysis – higher crime AAFs – harm analysis – moderate drinkers

SUMMARY - HAZARDOUS	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+1	+0.0	+0.0	+0.0	+0.0	+1	+0.0	+0.0	+0.0	+0.1	+0.0	+0.0	+0.0	+0.0	+0.0	+0.2	+0.0
2 Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-2	-0.0	+0.0	-0.0	-0.0	+0.0	-0.0	-0.0	-0.0	+0.0	+0.1	+0.0
3 Minimum price 35p	-3	-0.0	-0.0	-0.1	-0.0	-16	-0.1	-0.1	-0.2	-0.4	-0.0	-0.1	-0.1	-0.2	-0.0	-0.7	+0.0
4 Minimum price 40p	-10	-0.0	-0.1	-0.2	-0.0	-51	-0.3	-0.2	-0.7	-1.4	-0.1	-0.2	-0.4	-0.7	-0.0	-2.9	+0.0
5 Minimum price 45p	-21	-0.1	-0.3	-0.4	-0.1	-107	-0.6	-0.4	-1.6	-2.9	-0.2	-0.4	-1.0	-1.6	-0.0	-7.0	+0.0
6 Minimum price 50p	-35	-0.1	-0.5	-0.8	-0.2	-175	-1.1	-0.6	-2.6	-4.8	-0.4	-0.7	-1.6	-2.7	-0.0	-12.3	+0.0
7 Minimum price 55p	-51	-0.1	-0.7	-1.1	-0.3	-255	-1.6	-0.9	-3.9	-7.0	-0.5	-1.0	-2.4	-3.9	-0.0	-18.8	+0.0
8 Minimum price 60p	-68	-0.2	-1.0	-1.5	-0.3	-338	-2.1	-1.2	-5.2	-9.3	-0.7	-1.3	-3.2	-5.2	-0.0	-25.4	+0.0
9 Minimum price 65p	-84	-0.2	-1.2	-1.9	-0.4	-419	-2.6	-1.5	-6.5	-11.7	-0.9	-1.7	-4.0	-6.6	-0.1	-32.4	+0.0
10 Minimum price 70p	-100	-0.3	-1.5	-2.2	-0.5	-495	-3.2	-1.8	-7.8	-13.9	-1.1	-2.0	-4.9	-8.0	-0.1	-39.8	+0.0
11 Total off-trade discount ban	-18	-0.1	-0.3	-0.4	-0.1	-96	-0.6	-0.3	-1.4	-2.6	-0.2	-0.4	-1.0	-1.7	-0.0	-8.0	+0.0
12 Minimum price 25p + total off-t discount ban	-18	-0.1	-0.3	-0.4	-0.1	-96	-0.6	-0.3	-1.4	-2.6	-0.2	-0.4	-1.0	-1.7	-0.0	-7.9	+0.0
13 Minimum price 30p + total off-t discount ban	-19	-0.1	-0.3	-0.4	-0.1	-98	-0.6	-0.3	-1.4	-2.6	-0.2	-0.4	-1.0	-1.7	-0.0	-7.9	+0.0
14 Minimum price 35p + total off-t discount ban	-21	-0.1	-0.3	-0.5	-0.1	-109	-0.7	-0.4	-1.6	-2.9	-0.3	-0.5	-1.1	-1.9	-0.0	-8.6	+0.0
15 Minimum price 40p + total off-t discount ban	-26	-0.1	-0.4	-0.6	-0.1	-136	-0.8	-0.4	-2.0	-3.7	-0.3	-0.6	-1.4	-2.2	-0.0	-10.5	+0.0
16 Minimum price 45p + total off-t discount ban	-35	-0.1	-0.5	-0.8	-0.2	-178	-1.1	-0.6	-2.7	-4.9	-0.4	-0.7	-1.7	-2.9	-0.0	-13.7	+0.0
17 Minimum price 50p + total off-t discount ban	-46	-0.1	-0.7	-1.0	-0.2	-234	-1.4	-0.8	-3.5	-6.4	-0.5	-1.0	-2.3	-3.7	-0.0	-18.1	+0.0
18 Minimum price 55p + total off-t discount ban	-60	-0.2	-0.9	-1.3	-0.3	-303	-1.9	-1.0	-4.6	-8.4	-0.7	-1.2	-2.9	-4.8	-0.0	-23.5	+0.0
19 Minimum price 60p + total off-t discount ban	-75	-0.2	-1.1	-1.7	-0.4	-375	-2.3	-1.3	-5.8	-10.4	-0.8	-1.5	-3.6	-5.9	-0.0	-29.4	+0.0
20 Minimum price 65p + total off-t discount ban	-90	-0.3	-1.3	-2.0	-0.5	-448	-2.8	-1.6	-7.0	-12.5	-1.0	-1.8	-4.3	-7.2	-0.1	-35.8	+0.0
21 Minimum price 70p + total off-t discount ban	-105	-0.3	-1.6	-2.4	-0.6	-522	-3.3	-1.8	-8.2	-14.6	-1.2	-2.2	-5.2	-8.5	-0.1	-42.8	+0.0

Table A10.7: Summary tables for sensitivity analysis – higher crime AAFs – harm analysis – hazardous drinkers

SUMMARY - HARMFUL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	-1	-0.0	-0.0	-0.0	-0.0	-4	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.1	-0.2	-0.0	-0.6	-0.1
2 Minimum price 30p	-2	-0.0	-0.0	-0.1	-0.0	-11	-0.1	-0.0	-0.2	-0.3	-0.1	-0.1	-0.3	-0.5	-0.0	-1.5	-0.2
3 Minimum price 35p	-5	-0.0	-0.1	-0.1	-0.0	-30	-0.3	-0.1	-0.6	-0.8	-0.2	-0.3	-0.7	-1.2	-0.0	-3.3	-0.4
4 Minimum price 40p	-10	-0.0	-0.1	-0.3	-0.1	-62	-0.5	-0.1	-1.2	-1.6	-0.3	-0.7	-1.4	-2.4	-0.0	-6.3	-0.7
5 Minimum price 45p	-17	-0.1	-0.2	-0.5	-0.1	-105	-0.8	-0.2	-2.0	-2.7	-0.5	-1.0	-2.2	-3.8	-0.0	-10.3	-1.2
6 Minimum price 50p	-26	-0.1	-0.4	-0.7	-0.1	-154	-1.2	-0.3	-2.9	-4.0	-0.7	-1.5	-3.1	-5.4	-0.0	-14.9	-1.7
7 Minimum price 55p	-35	-0.2	-0.5	-0.9	-0.2	-208	-1.6	-0.5	-3.8	-5.4	-1.0	-1.9	-4.1	-7.0	-0.1	-19.8	-2.2
8 Minimum price 60p	-43	-0.2	-0.6	-1.1	-0.2	-258	-2.0	-0.6	-4.7	-6.7	-1.2	-2.4	-5.0	-8.7	-0.1	-24.4	-2.7
9 Minimum price 65p	-52	-0.2	-0.7	-1.3	-0.3	-310	-2.4	-0.7	-5.6	-8.0	-1.5	-2.9	-6.0	-10.4	-0.1	-29.3	-3.1
10 Minimum price 70p	-60	-0.3	-0.8	-1.5	-0.3	-363	-2.8	-0.8	-6.5	-9.3	-1.7	-3.3	-6.9	-12.0	-0.1	-34.2	-3.5
11 Total off-trade discount ban	-9	-0.0	-0.1	-0.2	-0.0	-54	-0.4	-0.1	-1.0	-1.4	-0.2	-0.5	-1.0	-1.8	-0.0	-5.0	-0.6
12 Minimum price 25p + total off-t discount ban	-10	-0.0	-0.1	-0.2	-0.1	-58	-0.5	-0.1	-1.1	-1.5	-0.3	-0.5	-1.1	-1.9	-0.0	-5.5	-0.7
13 Minimum price 30p + total off-t discount ban	-10	-0.1	-0.1	-0.3	-0.1	-64	-0.5	-0.1	-1.2	-1.7	-0.3	-0.6	-1.3	-2.1	-0.0	-6.2	-0.7
14 Minimum price 35p + total off-t discount ban	-13	-0.1	-0.2	-0.3	-0.1	-80	-0.7	-0.2	-1.5	-2.1	-0.4	-0.7	-1.6	-2.7	-0.0	-7.7	-0.9
15 Minimum price 40p + total off-t discount ban	-18	-0.1	-0.2	-0.5	-0.1	-107	-0.9	-0.2	-2.0	-2.8	-0.5	-1.0	-2.2	-3.7	-0.0	-10.3	-1.2
16 Minimum price 45p + total off-t discount ban	-24	-0.1	-0.3	-0.6	-0.1	-143	-1.1	-0.3	-2.7	-3.7	-0.7	-1.3	-2.9	-4.9	-0.0	-13.7	-1.6
17 Minimum price 50p + total off-t discount ban	-31	-0.1	-0.4	-0.8	-0.2	-185	-1.5	-0.4	-3.4	-4.8	-0.9	-1.7	-3.7	-6.2	-0.0	-17.7	-2.0
18 Minimum price 55p + total off-t discount ban	-39	-0.2	-0.5	-1.0	-0.2	-232	-1.8	-0.5	-4.3	-6.0	-1.1	-2.1	-4.5	-7.8	-0.1	-22.1	-2.5
19 Minimum price 60p + total off-t discount ban	-46	-0.2	-0.6	-1.2	-0.3	-277	-2.2	-0.6	-5.0	-7.2	-1.3	-2.6	-5.4	-9.3	-0.1	-26.3	-2.9
20 Minimum price 65p + total off-t discount ban	-54	-0.3	-0.7	-1.4	-0.3	-326	-2.5	-0.7	-5.9	-8.4	-1.6	-3.0	-6.4	-11.0	-0.1	-30.9	-3.2
21 Minimum price 70p + total off-t discount ban	-63	-0.3	-0.9	-1.6	-0.3	-377	-2.9	-0.8	-6.7	-9.7	-1.8	-3.5	-7.2	-12.5	-0.1	-35.7	-3.6

Table A10.8: Summary tables for sensitivity analysis – higher crime AAFs – harm analysis – harmful drinkers

University of Sheffield – Alcohol Minimum Price Modelling Research: Update

SUMMARY - TOTAL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs
1 Minimum price 25p	+0.3	-1	-0	-1.6	-1.5	+8	-1	-7	+2	-1	-	-14	-13	+13	-	+
2 Minimum price 30p	+0.0	-3	-1	-3.8	-4.3	+0	-2	-4.4	-2	-3	-1	-32	-38	-8	-2	-48
3 Minimum price 35p	-1.0	-1.1	-4	-8.7	-11.3	-2.7	-8	-14.7	-17	-9	-3	-72	-102	-74	-7	-183
4 Minimum price 40p	-2.8	-2.7	-1.0	-16.4	-22.9	-7.3	-1.9	-32.2	-43	-22	-8	-137	-211	-193	-18	-422
5 Minimum price 45p	-5.5	-5.1	-1.9	-26.5	-39.0	-14.3	-3.8	-57.1	-83	-42	-16	-221	-362	-369	-35	-766
6 Minimum price 50p	-8.8	-7.9	-3.1	-37.5	-57.3	-22.8	-6.0	-86.1	-132	-66	-26	-312	-536	-583	-55	-1,174
7 Minimum price 55p	-12.7	-11.1	-4.6	-48.6	-76.9	-32.9	-8.5	-118.3	-188	-92	-38	-404	-723	-831	-78	-1,633
8 Minimum price 60p	-16.7	-14.5	-6.0	-58.1	-95.2	-43.4	-11.1	-149.8	-247	-120	-50	-483	-900	-1,084	-103	-2,086
9 Minimum price 65p	-20.8	-18.0	-7.6	-67.4	-113.9	-54.3	-13.9	-182.1	-306	-150	-63	-560	-1,080	-1,342	-129	-2,550
10 Minimum price 70p	-25.0	-21.6	-9.2	-76.1	-131.9	-65.4	-16.8	-214.1	-366	-179	-77	-633	-1,255	-1,599	-155	-3,009
11 Total off-trade discount ban	-4.2	-4.1	-1.8	-13.9	-24.0	-11.1	-3.3	-38.4	-61	-34	-15	-115	-225	-274	-31	-530
12 Minimum price 25p + total off-t discount ban	-4.3	-4.1	-1.9	-15.2	-25.5	-11.3	-3.4	-40.2	-62	-34	-16	-127	-239	-280	-31	-550
13 Minimum price 30p + total off-t discount ban	-4.5	-4.3	-2.0	-17.0	-27.7	-11.8	-3.5	-43.0	-65	-36	-16	-141	-259	-293	-32	-585
14 Minimum price 35p + total off-t discount ban	-5.2	-4.9	-2.2	-21.0	-33.2	-13.6	-3.9	-50.8	-76	-41	-18	-175	-310	-341	-36	-686
15 Minimum price 40p + total off-t discount ban	-6.6	-6.2	-2.7	-27.4	-42.8	-17.4	-4.8	-65.1	-98	-51	-22	-228	-399	-437	-44	-881
16 Minimum price 45p + total off-t discount ban	-8.8	-8.0	-3.4	-35.5	-55.8	-23.1	-6.2	-85.1	-131	-67	-29	-295	-521	-579	-58	-1,158
17 Minimum price 50p + total off-t discount ban	-11.6	-10.4	-4.4	-44.7	-71.1	-30.3	-8.1	-109.4	-171	-87	-37	-372	-666	-758	-74	-1,499
18 Minimum price 55p + total off-t discount ban	-14.9	-13.2	-5.6	-54.0	-87.8	-39.0	-10.3	-137.0	-220	-110	-47	-449	-826	-972	-95	-1,893
19 Minimum price 60p + total off-t discount ban	-18.5	-16.2	-6.9	-62.4	-104.1	-48.4	-12.6	-165.1	-273	-135	-58	-519	-984	-1,197	-116	-2,298
20 Minimum price 65p + total off-t discount ban	-22.5	-19.6	-8.4	-70.9	-121.3	-58.7	-15.3	-195.3	-329	-163	-70	-589	-1,151	-1,438	-141	-2,729
21 Minimum price 70p + total off-t discount ban	-26.3	-22.9	-9.9	-79.0	-138.2	-68.9	-17.9	-225.0	-385	-191	-83	-657	-1,315	-1,678	-165	-3,158

Table A10.9: Summary tables for sensitivity analysis – higher crime AAFs – financial value – overall population

SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
1 Minimum price 25p	+0.3	+0	-0	+0	+3	+8	+0	+1.1	+3	+	-	+	+3	+15	+	+18
2 Minimum price 30p	+0.2	+1	-0	+0	+3	+5	+1	+9	+2	+1	-	+	+2	+8	+1	+11
3 Minimum price 35p	-0.2	+2	-1	+0	-1	-5	+1	-5	-3	+1	-1	+	-2	-13	+1	-13
4 Minimum price 40p	-0.8	+1	-2	+0	-9	-1.9	+1	-2.7	-9	+1	-2	+	-10	-42	+1	-52
5 Minimum price 45p	-1.6	-1	-5	+0	-2.2	-4.0	-1	-6.3	-18	-1	-4	+	-23	-86	-1	-111
6 Minimum price 50p	-2.6	-4	-8	+0	-3.9	-6.6	-4	-10.9	-30	-4	-7	+	-41	-141	-4	-186
7 Minimum price 55p	-3.9	-9	-1.3	+0	-6.0	-9.9	-8	-16.7	-45	-7	-11	+	-62	-207	-8	-278
8 Minimum price 60p	-5.3	-1.3	-1.8	+0	-8.4	-13.5	-1.3	-23.2	-61	-11	-15	+	-87	-278	-12	-377
9 Minimum price 65p	-6.8	-1.9	-2.4	+0	-11.1	-17.4	-1.9	-30.3	-78	-16	-20	+	-113	-353	-17	-484
10 Minimum price 70p	-8.3	-2.6	-3.0	+0	-13.8	-21.5	-2.5	-37.8	-95	-21	-25	+	-141	-430	-23	-594
11 Total off-trade discount ban	-1.4	-8	-7	+0	-2.8	-3.8	-7	-7.3	-16	-6	-6	+	-28	-74	-7	-108
12 Minimum price 25p + total off-t discount ban	-1.4	-7	-7	+0	-2.8	-3.7	-7	-7.3	-16	-6	-6	+	-28	-74	-7	-108
13 Minimum price 30p + total off-t discount ban	-1.4	-7	-7	+0	-2.8	-3.8	-7	-7.4	-16	-6	-6	+	-28	-76	-6	-110
14 Minimum price 35p + total off-t discount ban	-1.6	-6	-8	+0	-3.0	-4.3	-6	-8.0	-18	-5	-6	+	-30	-87	-6	-123
15 Minimum price 40p + total off-t discount ban	-2.1	-7	-9	+0	-3.6	-5.4	-7	-9.8	-24	-6	-7	+	-36	-111	-6	-154
16 Minimum price 45p + total off-t discount ban	-2.8	-8	-1.1	+0	-4.7	-7.2	-8	-12.6	-31	-7	-9	+	-47	-147	-8	-202
17 Minimum price 50p + total off-t discount ban	-3.6	-1.1	-1.4	+0	-6.0	-9.3	-1.0	-16.4	-41	-9	-11	+	-61	-193	-10	-264
18 Minimum price 55p + total off-t discount ban	-4.7	-1.4	-1.7	+0	-7.8	-12.1	-1.4	-21.3	-54	-12	-14	+	-80	-249	-13	-341
19 Minimum price 60p + total off-t discount ban	-6.0	-1.8	-2.2	+0	-9.9	-15.3	-1.8	-27.0	-68	-15	-18	+	-101	-312	-16	-429
20 Minimum price 65p + total off-t discount ban	-7.4	-2.3	-2.7	+0	-12.5	-19.1	-2.3	-33.9	-85	-19	-22	+	-126	-384	-21	-532
21 Minimum price 70p + total off-t discount ban	-8.8	-2.9	-3.2	+0	-14.9	-22.7	-2.8	-40.4	-100	-24	-27	+	-151	-453	-26	-630

Table A10.10: Summary tables for sensitivity analysis - higher crime AAFs – financial value – moderate drinkers

SUMMARY - HAZARDOUS	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
1 Minimum price 25p	+0.1	+0	+0	+0	+1	+2	+0	+3	+1	+	+	+	+1	+4	+	+5
2 Minimum price 30p	+0.0	-0	+0	+0	+0	+1	+0	+1	-	-	+	+	-	-1	+	-1
3 Minimum price 35p	-0.3	-2	-1	+0	-5	-7	-1	-1.3	-5	-1	-	+	-7	-21	-1	-29
4 Minimum price 40p	-0.9	-6	-2	+0	-1.7	-2.4	-4	-4.5	-15	-5	-2	+	-22	-68	-4	-94
5 Minimum price 45p	-2.0	-1.3	-6	+0	-3.9	-5.2	-9	-10.0	-32	-11	-5	+	-48	-144	-9	-200
6 Minimum price 50p	-3.4	-2.2	-1.1	+0	-6.6	-8.8	-1.6	-17.0	-54	-18	-9	+	-81	-239	-15	-335
7 Minimum price 55p	-5.0	-3.3	-1.6	+0	-9.9	-13.0	-2.5	-25.4	-79	-27	-13	+	-120	-351	-23	-494
8 Minimum price 60p	-6.7	-4.4	-2.2	+0	-13.3	-17.5	-3.4	-34.1	-106	-36	-18	+	-161	-467	-31	-659
9 Minimum price 65p	-8.5	-5.5	-2.8	+0	-16.7	-22.0	-4.2	-43.0	-133	-46	-23	+	-202	-583	-39	-824
10 Minimum price 70p	-10.1	-6.7	-3.4	+0	-20.2	-26.4	-5.2	-51.9	-160	-56	-28	+	-244	-694	-48	-986
11 Total off-trade discount ban	-1.8	-1.5	-7	+0	-4.0	-4.8	-1.2	-10.0	-29	-12	-6	+	-47	-128	-11	-186
12 Minimum price 25p + total off-t discount ba	-1.8	-1.5	-7	+0	-4.0	-4.8	-1.2	-10.0	-29	-12	-6	+	-47	-129	-11	-186
13 Minimum price 30p + total off-t discount ba	-1.9	-1.5	-7	+0	-4.1	-4.9	-1.2	-10.2	-29	-12	-6	+	-48	-132	-11	-191
14 Minimum price 35p + total off-t discount ba	-2.1	-1.6	-8	+0	-4.4	-5.4	-1.3	-11.1	-33	-13	-6	+	-52	-147	-12	-211
15 Minimum price 40p + total off-t discount ba	-2.6	-1.9	-9	+0	-5.4	-6.8	-1.5	-13.6	-41	-16	-8	+	-64	-184	-13	-262
16 Minimum price 45p + total off-t discount ba	-3.5	-2.4	-1.2	+0	-7.0	-9.0	-1.9	-17.9	-55	-20	-10	+	-84	-243	-17	-345
17 Minimum price 50p + total off-t discount ba	-4.6	-3.1	-1.6	+0	-9.3	-12.0	-2.4	-23.7	-73	-26	-13	+	-111	-322	-22	-456
18 Minimum price 55p + total off-t discount ba	-6.0	-4.0	-2.0	+0	-12.0	-15.6	-3.1	-30.8	-95	-33	-17	+	-145	-418	-29	-591
19 Minimum price 60p + total off-t discount ba	-7.6	-5.0	-2.5	+0	-15.1	-19.6	-3.9	-38.6	-119	-41	-21	+	-181	-521	-36	-738
20 Minimum price 65p + total off-t discount ba	-9.1	-6.0	-3.1	+0	-18.2	-23.8	-4.7	-46.6	-144	-50	-25	+	-219	-626	-43	-888
21 Minimum price 70p + total off-t discount ba	-10.7	-7.2	-3.7	+0	-21.5	-28.0	-5.6	-55.0	-169	-59	-30	+	-259	-732	-51	-1,042

Table A10.11: Summary tables for sensitivity analysis – higher crime AAFs – financial value – hazardous drinkers

SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
					Total value of harm								Total value of harm			
	Healthcare costs	Crime costs	Absence costs	Unemployment costs	Total direct costs	Health QALY value	Crime QALY value	reduction incl. QALYs	Healthcare costs	Crime costs	Absence costs	Unemployment costs	Total direct costs	Health QALY value	Crime QALY value	reduction incl. QALYs
Policy Scenario	Year 1	Year 1	Year 1	Year 1	Year 1	Year 1	Year 1	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	
1 Minimum price 25p	-0.1	-1	-1	-1.6	-1.9	-2	-1	-2.2	-1	-1	-	-14	-16	-6	-1	-23
2 Minimum price 30p	-0.2	-4	-1	-3.8	-4.5	-6	-3	-5.4	-4	-3	-1	-32	-40	-15	-2	-57
3 Minimum price 35p	-0.5	-1.0	-3	-8.7	-10.5	-1.5	-7	-12.7	-10	-8	-2	-72	-92	-40	-7	-139
4 Minimum price 40p	-1.1	-2.0	-5	-16.4	-20.0	-3.0	-1.5	-24.5	-19	-17	-4	-137	-177	-81	-14	-272
5 Minimum price 45p	-1.8	-3.2	-9	-26.5	-32.4	-4.9	-2.4	-39.8	-32	-27	-7	-221	-287	-137	-22	-446
6 Minimum price 50p	-2.7	-4.5	-1.2	-37.5	-46.0	-7.2	-3.4	-56.6	-47	-38	-10	-312	-407	-200	-31	-639
7 Minimum price 55p	-3.6	-6.0	-1.6	-48.6	-59.8	-9.7	-4.5	-74.0	-63	-50	-14	-404	-531	-269	-41	-841
8 Minimum price 60p	-4.5	-7.4	-2.0	-58.1	-72.0	-12.0	-5.6	-89.6	-78	-62	-17	-483	-640	-334	-52	-1,025
9 Minimum price 65p	-5.4	-9.0	-2.4	-67.4	-84.2	-14.3	-6.8	-105.3	-93	-75	-20	-560	-749	-399	-63	-1,211
10 Minimum price 70p	-6.3	-10.3	-2.8	-76.1	-95.5	-16.7	-7.8	-120.1	-109	-86	-24	-633	-851	-467	-72	-1,390
11 Total off-trade discount ban	-0.9	-1.5	-4	-13.9	-16.7	-2.5	-1.2	-20.4	-17	-13	-4	-115	-148	-71	-11	-229
12 Minimum price 25p + total off-t discount ban	-1.0	-1.6	-5	-15.2	-18.3	-2.7	-1.2	-22.2	-18	-13	-4	-127	-162	-76	-11	-249
13 Minimum price 30p + total off-t discount ban	-1.1	-1.8	-5	-17.0	-20.4	-3.0	-1.4	-24.7	-20	-15	-4	-141	-180	-84	-13	-276
14 Minimum price 35p + total off-t discount ban	-1.4	-2.3	-7	-21.0	-25.3	-3.7	-1.7	-30.7	-24	-19	-6	-175	-223	-104	-16	-343
15 Minimum price 40p + total off-t discount ban	-1.9	-3.1	-9	-27.4	-33.2	-4.9	-2.3	-40.5	-33	-26	-7	-228	-293	-139	-22	-454
16 Minimum price 45p + total off-t discount ban	-2.5	-4.1	-1.2	-35.5	-43.3	-6.6	-3.1	-53.0	-44	-34	-10	-295	-383	-186	-29	-597
17 Minimum price 50p + total off-t discount ban	-3.2	-5.3	-1.5	-44.7	-54.7	-8.6	-4.0	-67.3	-56	-44	-12	-372	-484	-240	-37	-761
18 Minimum price 55p + total off-t discount ban	-4.1	-6.6	-1.9	-54.0	-66.6	-10.8	-5.0	-82.4	-71	-55	-15	-449	-590	-301	-46	-938
19 Minimum price 60p + total off-t discount ban	-4.8	-8.0	-2.2	-62.4	-77.4	-12.9	-6.1	-96.3	-84	-66	-18	-519	-688	-359	-56	-1,102
20 Minimum price 65p + total off-t discount ban	-5.7	-9.5	-2.6	-70.9	-88.6	-15.1	-7.2	-110.8	-98	-79	-21	-589	-788	-421	-66	-1,275
21 Minimum price 70p + total off-t discount ban	-6.5	-10.8	-3.0	-79.0	-99.3	-17.4	-8.2	-124.8	-113	-89	-25	-657	-885	-485	-75	-1,445

Table A10.12: Summary tables for sensitivity analysis – higher crime AAFs – financial value – harmful drinkers



**Appendix 11: Summary tables for sensitivity analysis – lower crime AAFs**

SUMMARY - TOTAL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in spend p.a. if no change in consump.
Policy Scenario														
1 Minimum price 25p	-0.1%	-2.0	+0.9	+0.2	+0.0	-0.9	+4.7	+3.1	-0.1	+0.9	+8.7	+0.4%	+2.29	+1.28
2 Minimum price 30p	-0.3%	-4.6	+1.8	+0.1	+0.0	-2.7	+11.0	+7.6	-0.8	+2.3	+20.1	+0.9%	+5.32	+3.46
3 Minimum price 35p	-1.0%	-7.4	+2.4	-3.0	+0.0	-7.8	+23.7	+14.9	-3.8	+4.5	+39.3	+1.7%	+10.38	+8.64
4 Minimum price 40p	-2.3%	-10.3	+1.3	-9.1	+0.1	-18.0	+43.1	+25.0	-10.0	+7.6	+65.7	+2.8%	+17.34	+18.11
5 Minimum price 45p	-4.3%	-13.6	-3.1	-16.9	+0.1	-33.5	+67.3	+36.7	-19.5	+11.1	+95.6	+4.1%	+25.24	+32.15
6 Minimum price 50p	-6.7%	-17.2	-9.5	-25.7	+0.1	-52.3	+90.8	+49.2	-31.4	+14.9	+123.4	+5.2%	+32.56	+48.91
7 Minimum price 55p	-9.5%	-20.9	-18.1	-35.2	+0.1	-74.1	+112.1	+62.5	-46.0	+18.9	+147.6	+6.3%	+38.95	+68.41
8 Minimum price 60p	-12.3%	-23.2	-27.8	-45.2	+0.0	-96.2	+130.3	+76.7	-61.4	+23.0	+168.7	+7.2%	+44.52	+89.53
9 Minimum price 65p	-15.3%	-25.2	-38.8	-55.5	-0.0	-119.6	+142.8	+92.2	-78.5	+27.3	+183.8	+7.8%	+48.51	+112.28
10 Minimum price 70p	-18.4%	-27.1	-50.3	-66.1	-0.2	-143.7	+148.0	+108.5	-97.2	+31.6	+190.9	+8.1%	+50.39	+136.04
11 Total off-trade discount ban	-3.1%	-6.3	-13.9	-4.0	-0.2	-24.3	+48.4	+11.5	-10.5	+3.5	+53.0	+2.3%	+13.99	+24.03
12 Minimum price 25p + total off-t discount ban	-3.2%	-8.0	-13.2	-3.8	-0.1	-25.2	+51.9	+14.0	-10.7	+4.3	+59.5	+2.5%	+15.70	+25.07
13 Minimum price 30p + total off-t discount ban	-3.4%	-9.9	-12.6	-4.0	-0.1	-26.6	+56.3	+17.5	-11.4	+5.3	+67.7	+2.9%	+17.87	+26.72
14 Minimum price 35p + total off-t discount ban	-4.0%	-11.8	-12.3	-6.8	-0.1	-31.0	+66.0	+23.7	-14.2	+7.2	+82.7	+3.5%	+21.83	+30.90
15 Minimum price 40p + total off-t discount ban	-5.1%	-13.8	-13.3	-12.4	-0.1	-39.6	+80.7	+32.4	-19.8	+9.9	+103.2	+4.4%	+27.25	+38.62
16 Minimum price 45p + total off-t discount ban	-6.7%	-16.3	-16.5	-19.3	-0.1	-52.3	+97.8	+42.8	-28.2	+13.0	+125.4	+5.3%	+33.09	+49.94
17 Minimum price 50p + total off-t discount ban	-8.7%	-19.3	-21.5	-27.3	-0.1	-68.2	+114.1	+54.2	-39.2	+16.4	+145.6	+6.2%	+38.42	+63.91
18 Minimum price 55p + total off-t discount ban	-11.2%	-22.4	-28.5	-36.2	-0.1	-87.2	+128.7	+66.6	-52.6	+20.1	+162.8	+6.9%	+42.98	+80.63
19 Minimum price 60p + total off-t discount ban	-13.7%	-24.2	-36.9	-45.9	-0.1	-107.1	+141.7	+80.1	-67.3	+24.0	+178.6	+7.6%	+47.13	+99.67
20 Minimum price 65p + total off-t discount ban	-16.5%	-25.8	-46.8	-56.1	-0.2	-129.0	+150.1	+95.1	-83.9	+28.2	+189.4	+8.1%	+50.00	+120.93
21 Minimum price 70p + total off-t discount ban	-19.5%	-27.4	-57.6	-66.6	-0.3	-151.9	+152.0	+111.1	-102.4	+32.4	+193.1	+8.2%	+50.97	+143.52

**Table A11.1: Summary tables for sensitivity analysis – lower crime AAFs – consumption analysis – overall population**

SUMMARY - MODERATE	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	+0.0%	-0.2	+0.1	+0.1	+0.0	+0.0	+0.7	+0.7	+0.0	+0.2	+1.7	+0.2%	+0.69	+0.29
2 Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.1	+1.7	+1.7	-0.0	+0.5	+3.8	+0.5%	+1.51	+0.77
3 Minimum price 35p	-0.3%	-0.2	-0.1	-0.6	+0.0	-1.0	+4.0	+3.3	-0.4	+1.0	+7.9	+1.0%	+3.11	+2.06
4 Minimum price 40p	-0.9%	-0.0	-0.8	-2.1	+0.0	-2.9	+7.9	+5.5	-1.2	+1.6	+13.8	+1.8%	+5.46	+4.55
5 Minimum price 45p	-2.0%	+0.2	-2.5	-3.9	+0.0	-6.2	+13.5	+8.0	-2.4	+2.4	+21.5	+2.8%	+8.48	+8.58
6 Minimum price 50p	-3.3%	+0.3	-4.9	-5.8	+0.0	-10.4	+19.8	+10.7	-3.9	+3.2	+29.7	+3.8%	+11.71	+13.66
7 Minimum price 55p	-5.0%	+0.4	-8.1	-8.1	+0.1	-15.7	+26.7	+13.5	-5.9	+4.0	+38.3	+4.9%	+15.12	+19.98
8 Minimum price 60p	-6.8%	+0.4	-11.5	-10.5	+0.1	-21.5	+33.0	+16.5	-8.2	+4.9	+46.3	+5.9%	+18.25	+26.91
9 Minimum price 65p	-8.8%	+0.4	-15.4	-13.0	+0.1	-27.9	+38.7	+19.9	-10.9	+5.8	+53.5	+6.9%	+21.12	+34.59
10 Minimum price 70p	-10.9%	+0.4	-19.4	-15.6	+0.1	-34.5	+43.1	+23.6	-13.8	+6.8	+59.6	+7.6%	+23.52	+42.62
11 Total off-trade discount ban	-2.1%	-0.4	-5.1	-0.9	-0.0	-6.5	+12.3	+2.3	-1.4	+0.7	+13.9	+1.8%	+5.47	+8.43
12 Minimum price 25p + total off-t discount ban	-2.1%	-0.6	-5.0	-0.9	-0.0	-6.5	+12.9	+2.9	-1.4	+0.9	+15.3	+2.0%	+6.03	+8.68
13 Minimum price 30p + total off-t discount ban	-2.1%	-0.7	-5.1	-0.9	-0.0	-6.7	+13.6	+3.6	-1.4	+1.1	+16.9	+2.2%	+6.67	+9.06
14 Minimum price 35p + total off-t discount ban	-2.3%	-0.6	-5.3	-1.5	-0.0	-7.4	+15.5	+5.0	-1.8	+1.5	+20.3	+2.6%	+8.00	+10.16
15 Minimum price 40p + total off-t discount ban	-2.9%	-0.4	-5.8	-2.9	+0.0	-9.1	+18.7	+7.0	-2.5	+2.1	+25.2	+3.2%	+9.96	+12.27
16 Minimum price 45p + total off-t discount ban	-3.7%	-0.2	-7.1	-4.5	+0.0	-11.8	+22.9	+9.2	-3.6	+2.8	+31.3	+4.0%	+12.33	+15.52
17 Minimum price 50p + total off-t discount ban	-4.8%	+0.0	-8.9	-6.3	+0.0	-15.2	+27.5	+11.7	-5.0	+3.5	+37.6	+4.8%	+14.84	+19.68
18 Minimum price 55p + total off-t discount ban	-6.2%	+0.2	-11.5	-8.4	+0.0	-19.7	+32.6	+14.4	-6.9	+4.3	+44.4	+5.7%	+17.50	+24.98
19 Minimum price 60p + total off-t discount ban	-7.9%	+0.3	-14.4	-10.7	+0.0	-24.9	+37.5	+17.3	-9.1	+5.1	+50.8	+6.5%	+20.04	+31.11
20 Minimum price 65p + total off-t discount ban	-9.7%	+0.3	-17.9	-13.2	+0.0	-30.8	+42.0	+20.6	-11.7	+6.0	+56.8	+7.3%	+22.41	+38.18
21 Minimum price 70p + total off-t discount ban	-11.7%	+0.4	-21.6	-15.8	+0.1	-37.0	+45.5	+24.1	-14.6	+6.9	+61.9	+7.9%	+24.43	+45.75

Table A11.2: Summary tables for sensitivity analysis – lower crime AAFs – consumption analysis – moderate drinkers

SUMMARY - HAZARDOUS	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	+0.0%	-2.6	+2.6	+0.4	+0.0	+0.5	+1.9	+1.6	+0.2	+0.5	+4.1	+0.4%	+4.82	+1.88
2 Minimum price 30p	-0.0%	-6.0	+5.4	+0.3	+0.0	-0.3	+4.5	+3.8	+0.2	+1.2	+9.7	+1.0%	+11.43	+5.45
3 Minimum price 35p	-0.4%	-9.2	+7.7	-4.3	+0.1	-5.7	+9.4	+7.4	-0.6	+2.2	+18.5	+2.0%	+21.82	+13.66
4 Minimum price 40p	-1.4%	-12.4	+5.9	-14.0	+0.1	-20.3	+17.4	+12.4	-2.7	+3.8	+31.0	+3.3%	+36.53	+30.11
5 Minimum price 45p	-3.2%	-16.2	-3.4	-26.9	+0.1	-46.4	+27.8	+18.4	-6.3	+5.6	+45.4	+4.9%	+53.55	+55.94
6 Minimum price 50p	-5.6%	-20.2	-17.5	-42.1	+0.1	-79.8	+38.1	+24.8	-11.2	+7.6	+59.2	+6.4%	+69.79	+87.44
7 Minimum price 55p	-8.4%	-24.5	-36.9	-58.7	+0.0	-120.1	+47.3	+31.6	-17.4	+9.6	+71.2	+7.6%	+83.89	+124.10
8 Minimum price 60p	-11.3%	-26.7	-58.9	-76.3	-0.0	-161.9	+54.7	+38.9	-24.1	+11.7	+81.2	+8.7%	+95.79	+163.70
9 Minimum price 65p	-14.4%	-27.4	-83.2	-94.5	-0.1	-205.2	+59.8	+46.6	-31.4	+13.9	+89.0	+9.6%	+104.89	+206.13
10 Minimum price 70p	-17.6%	-28.7	-108.8	-113.5	-0.2	-251.2	+61.3	+54.8	-39.7	+16.2	+92.6	+9.9%	+109.15	+250.57
11 Total off-trade discount ban	-3.3%	-9.9	-29.2	-7.8	-0.2	-47.2	+19.9	+5.9	-4.9	+1.8	+22.6	+2.4%	+26.64	+45.39
12 Minimum price 25p + total off-t discount ban	-3.3%	-12.0	-27.3	-7.5	-0.2	-47.0	+21.2	+7.1	-4.8	+2.2	+25.7	+2.8%	+30.29	+46.92
13 Minimum price 30p + total off-t discount ban	-3.3%	-14.4	-25.5	-7.8	-0.2	-47.9	+23.1	+8.9	-4.9	+2.7	+29.8	+3.2%	+35.09	+49.58
14 Minimum price 35p + total off-t discount ban	-3.7%	-16.4	-24.0	-11.9	-0.2	-52.5	+26.9	+11.9	-5.6	+3.6	+36.8	+3.9%	+43.33	+56.12
15 Minimum price 40p + total off-t discount ban	-4.5%	-18.1	-25.5	-20.7	-0.1	-64.5	+32.9	+16.2	-7.5	+5.0	+46.5	+5.0%	+54.87	+69.27
16 Minimum price 45p + total off-t discount ban	-6.0%	-20.6	-32.3	-32.1	-0.1	-85.1	+40.0	+21.5	-10.7	+6.6	+57.3	+6.2%	+67.59	+89.65
17 Minimum price 50p + total off-t discount ban	-7.9%	-23.7	-43.2	-45.7	-0.1	-112.6	+47.0	+27.3	-15.1	+8.3	+67.5	+7.2%	+79.59	+115.47
18 Minimum price 55p + total off-t discount ban	-10.3%	-27.1	-58.8	-60.9	-0.2	-146.9	+53.1	+33.6	-20.7	+10.2	+76.2	+8.2%	+89.87	+146.57
19 Minimum price 60p + total off-t discount ban	-12.9%	-28.5	-77.7	-77.9	-0.2	-184.2	+58.3	+40.5	-27.1	+12.2	+83.9	+9.0%	+98.92	+182.13
20 Minimum price 65p + total off-t discount ban	-15.7%	-28.5	-99.9	-95.9	-0.3	-224.5	+61.6	+48.0	-34.2	+14.3	+89.7	+9.6%	+105.77	+221.73
21 Minimum price 70p + total off-t discount ban	-18.8%	-29.3	-123.9	-114.6	-0.4	-268.2	+61.6	+56.0	-42.3	+16.5	+91.8	+9.9%	+108.27	+263.96

Table A11.3: Summary tables for sensitivity analysis – lower crime AAFs – consumption analysis – hazardous drinkers

SUMMARY - HARMFUL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	Policy Scenario	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.
1 Minimum price 25p	-0.4%	-20.8	+4.1	+1.0	+0.0	-15.7	+2.1	+0.8	-0.3	+0.2	+2.8	+0.5%	+11.82	+10.38
2 Minimum price 30p	-1.1%	-48.4	+9.1	-0.5	+0.1	-39.6	+4.8	+2.1	-1.0	+0.6	+6.5	+1.1%	+27.12	+27.04
3 Minimum price 35p	-2.5%	-81.4	+12.8	-24.7	+0.2	-93.1	+10.1	+4.1	-2.8	+1.3	+12.7	+2.1%	+52.82	+65.45
4 Minimum price 40p	-4.8%	-118.4	+8.1	-70.3	+0.3	-180.3	+17.4	+6.9	-6.1	+2.1	+20.3	+3.4%	+84.64	+129.00
5 Minimum price 45p	-7.9%	-159.0	-9.2	-128.5	+0.4	-296.3	+25.3	+10.1	-10.7	+3.1	+27.8	+4.6%	+115.72	+214.63
6 Minimum price 50p	-11.4%	-202.9	-33.9	-192.0	+0.5	-428.2	+31.8	+13.4	-16.2	+4.1	+33.1	+5.5%	+138.08	+311.61
7 Minimum price 55p	-15.3%	-246.5	-67.6	-258.9	+0.4	-572.6	+36.7	+17.0	-22.5	+5.1	+36.3	+6.0%	+151.28	+419.97
8 Minimum price 60p	-18.9%	-275.0	-106.6	-327.7	-0.5	-709.7	+40.7	+20.8	-28.8	+6.2	+39.0	+6.5%	+162.44	+536.82
9 Minimum price 65p	-22.8%	-303.6	-151.4	-398.0	-1.6	-854.6	+42.2	+25.0	-35.8	+7.4	+38.7	+6.5%	+161.37	+660.82
10 Minimum price 70p	-26.7%	-327.9	-199.4	-469.9	-3.1	-1000.3	+41.2	+29.3	-43.2	+8.5	+35.8	+6.0%	+149.12	+789.78
11 Total off-trade discount ban	-3.9%	-59.4	-59.8	-24.9	-1.4	-145.5	+15.6	+3.3	-4.2	+1.0	+15.8	+2.6%	+65.64	+124.91
12 Minimum price 25p + total off-t discount ban	-4.2%	-76.0	-57.3	-24.3	-1.3	-158.8	+17.1	+3.9	-4.5	+1.2	+17.7	+3.0%	+73.93	+133.26
13 Minimum price 30p + total off-t discount ban	-4.7%	-96.8	-54.0	-25.8	-1.3	-177.9	+18.8	+4.9	-5.0	+1.5	+20.2	+3.4%	+84.13	+145.77
14 Minimum price 35p + total off-t discount ban	-5.9%	-121.3	-51.8	-48.1	-1.2	-222.4	+22.7	+6.6	-6.7	+2.0	+24.7	+4.1%	+102.89	+176.32
15 Minimum price 40p + total off-t discount ban	-7.9%	-149.5	-56.1	-89.6	-1.2	-296.4	+28.1	+9.0	-9.7	+2.8	+30.2	+5.0%	+125.95	+228.48
16 Minimum price 45p + total off-t discount ban	-10.5%	-182.6	-69.3	-141.9	-1.0	-394.8	+33.6	+11.8	-13.8	+3.6	+35.3	+5.9%	+147.04	+299.06
17 Minimum price 50p + total off-t discount ban	-13.6%	-220.3	-89.0	-200.2	-0.9	-510.4	+38.1	+14.9	-18.9	+4.5	+38.6	+6.4%	+160.90	+382.15
18 Minimum price 55p + total off-t discount ban	-17.1%	-258.3	-116.6	-263.5	-1.0	-639.4	+41.1	+18.3	-24.8	+5.5	+40.1	+6.7%	+167.00	+477.62
19 Minimum price 60p + total off-t discount ban	-20.4%	-282.1	-150.6	-330.8	-1.9	-765.4	+43.8	+21.9	-30.8	+6.5	+41.4	+6.9%	+172.44	+584.73
20 Minimum price 65p + total off-t discount ban	-24.1%	-307.6	-191.5	-400.6	-2.9	-902.6	+44.1	+25.9	-37.6	+7.6	+40.0	+6.7%	+166.81	+701.84
21 Minimum price 70p + total off-t discount ban	-27.8%	-329.7	-236.1	-472.2	-4.3	-1042.3	+42.2	+30.2	-44.9	+8.7	+36.2	+6.0%	+150.74	+825.25

Table A11.4: Summary tables for sensitivity analysis – lower crime AAFs – consumption analysis – harmful drinkers

SUMMARY - TOTAL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+6	-0.0	+0.1	+0.1	+0.0	+2	-0.0	+0.1	-0.0	+0.3	-0.0	-0.0	-0.0	-0.0	-0.0	-0.5	-0.1
2 Minimum price 30p	+2	-0.0	+0.0	-0.0	+0.0	-10	-0.1	+0.0	-0.2	-0.2	-0.0	-0.0	-0.0	-0.1	-0.0	-1.6	-0.2
3 Minimum price 35p	-9	-0.0	-0.1	-0.2	-0.1	-47	-0.4	-0.2	-0.9	-1.5	-0.0	-0.1	-0.2	-0.3	-0.0	-4.9	-0.4
4 Minimum price 40p	-26	-0.1	-0.4	-0.6	-0.1	-119	-0.9	-0.4	-2.2	-3.9	-0.1	-0.3	-0.5	-0.9	-0.0	-11.8	-0.7
5 Minimum price 45p	-50	-0.2	-0.8	-1.2	-0.3	-225	-1.7	-0.9	-4.2	-7.4	-0.1	-0.6	-1.0	-1.7	-0.0	-22.9	-1.2
6 Minimum price 50p	-80	-0.3	-1.3	-2.0	-0.5	-352	-2.6	-1.4	-6.5	-11.7	-0.2	-0.9	-1.6	-2.7	-0.0	-36.9	-1.7
7 Minimum price 55p	-114	-0.4	-1.9	-2.8	-0.7	-497	-3.6	-2.1	-9.2	-16.6	-0.3	-1.2	-2.3	-3.8	-0.0	-53.6	-2.2
8 Minimum price 60p	-150	-0.5	-2.5	-3.7	-0.9	-640	-4.7	-2.7	-12.0	-21.7	-0.4	-1.6	-3.0	-5.0	-0.0	-70.5	-2.7
9 Minimum price 65p	-185	-0.6	-3.1	-4.6	-1.1	-785	-5.8	-3.4	-14.8	-26.8	-0.5	-2.0	-3.8	-6.3	-0.0	-88.8	-3.1
10 Minimum price 70p	-221	-0.7	-3.8	-5.6	-1.3	-926	-6.9	-4.1	-17.6	-32.0	-0.6	-2.4	-4.6	-7.6	-0.0	-108.0	-3.5
11 Total off-trade discount ban	-37	-0.1	-0.6	-0.9	-0.2	-162	-1.2	-0.7	-3.0	-5.5	-0.1	-0.4	-0.9	-1.4	-0.0	-20.5	-0.6
12 Minimum price 25p + total off-t discount ban	-37	-0.1	-0.6	-1.0	-0.2	-166	-1.2	-0.7	-3.0	-5.6	-0.1	-0.4	-0.9	-1.5	-0.0	-21.0	-0.7
13 Minimum price 30p + total off-t discount ban	-39	-0.1	-0.7	-1.0	-0.2	-174	-1.3	-0.7	-3.2	-5.9	-0.1	-0.5	-0.9	-1.5	-0.0	-21.9	-0.7
14 Minimum price 35p + total off-t discount ban	-46	-0.1	-0.8	-1.2	-0.3	-203	-1.5	-0.8	-3.8	-6.8	-0.1	-0.5	-1.0	-1.7	-0.0	-24.8	-0.9
15 Minimum price 40p + total off-t discount ban	-59	-0.2	-1.0	-1.5	-0.3	-261	-1.9	-1.1	-4.8	-8.7	-0.2	-0.7	-1.3	-2.1	-0.0	-30.5	-1.2
16 Minimum price 45p + total off-t discount ban	-79	-0.2	-1.3	-2.0	-0.5	-344	-2.5	-1.4	-6.4	-11.6	-0.2	-0.9	-1.7	-2.8	-0.0	-39.6	-1.6
17 Minimum price 50p + total off-t discount ban	-103	-0.3	-1.7	-2.6	-0.6	-450	-3.3	-1.9	-8.4	-15.2	-0.3	-1.1	-2.2	-3.6	-0.0	-51.2	-2.0
18 Minimum price 55p + total off-t discount ban	-133	-0.4	-2.2	-3.3	-0.8	-575	-4.2	-2.4	-10.7	-19.4	-0.4	-1.5	-2.8	-4.6	-0.0	-65.4	-2.5
19 Minimum price 60p + total off-t discount ban	-165	-0.5	-2.8	-4.1	-1.0	-702	-5.2	-3.0	-13.2	-23.9	-0.5	-1.8	-3.4	-5.7	-0.0	-80.6	-2.9
20 Minimum price 65p + total off-t discount ban	-198	-0.6	-3.4	-5.0	-1.2	-836	-6.2	-3.7	-15.8	-28.8	-0.6	-2.2	-4.2	-6.9	-0.0	-97.5	-3.2
21 Minimum price 70p + total off-t discount ban	-231	-0.7	-3.9	-5.9	-1.4	-969	-7.2	-4.3	-18.5	-33.6	-0.7	-2.5	-4.9	-8.1	-0.0	-115.6	-3.6

Table A11.5: Summary tables for sensitivity analysis – lower crime AAFs – harm analysis – overall population

SUMMARY - MODERATE	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
Policy Scenario																	
1 Minimum price 25p	+5	+0.0	+0.1	+0.1	+0.0	+5	-0.0	+0.1	+0.1	+0.3	+0.0	+0.0	+0.0	+0.0	+0.0	-0.0	+0.0
2 Minimum price 30p	+3	-0.0	+0.0	+0.0	+0.0	+3	-0.0	+0.0	+0.0	+0.2	+0.0	+0.0	+0.0	+0.0	+0.0	-0.2	+0.0
3 Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-1	-0.0	-0.0	-0.1	-0.3	+0.0	+0.0	+0.1	+0.1	+0.0	-0.8	+0.0
4 Minimum price 40p	-5	-0.0	-0.1	-0.2	-0.0	-6	-0.1	-0.1	-0.3	-0.8	+0.0	+0.0	+0.0	+0.1	+0.0	-2.3	+0.0
5 Minimum price 45p	-12	-0.0	-0.3	-0.3	-0.1	-14	-0.2	-0.3	-0.6	-1.7	-0.0	-0.0	+0.0	-0.0	-0.0	-5.2	+0.0
6 Minimum price 50p	-19	-0.0	-0.4	-0.5	-0.1	-22	-0.3	-0.5	-1.0	-2.8	-0.0	-0.0	-0.1	-0.1	-0.0	-9.1	+0.0
7 Minimum price 55p	-29	-0.0	-0.7	-0.8	-0.2	-33	-0.4	-0.7	-1.5	-4.1	-0.0	-0.1	-0.2	-0.3	-0.0	-14.2	+0.0
8 Minimum price 60p	-39	-0.1	-0.9	-1.1	-0.3	-44	-0.6	-0.9	-2.1	-5.6	-0.0	-0.1	-0.3	-0.4	-0.0	-19.7	+0.0
9 Minimum price 65p	-49	-0.1	-1.1	-1.4	-0.3	-56	-0.7	-1.2	-2.7	-7.1	-0.1	-0.2	-0.4	-0.7	-0.0	-25.9	+0.0
10 Minimum price 70p	-60	-0.1	-1.4	-1.7	-0.4	-68	-0.9	-1.5	-3.3	-8.6	-0.1	-0.2	-0.6	-0.9	-0.0	-32.3	+0.0
11 Total off-trade discount ban	-10	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.2	-0.5	-1.5	-0.0	-0.1	-0.2	-0.3	-0.0	-7.3	+0.0
12 Minimum price 25p + total off-t discount ban	-10	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.2	-0.5	-1.5	-0.0	-0.1	-0.2	-0.3	-0.0	-7.4	+0.0
13 Minimum price 30p + total off-t discount ban	-10	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.3	-0.5	-1.5	-0.0	-0.1	-0.2	-0.3	-0.0	-7.5	+0.0
14 Minimum price 35p + total off-t discount ban	-12	-0.0	-0.3	-0.3	-0.1	-14	-0.2	-0.3	-0.6	-1.7	-0.0	-0.1	-0.1	-0.2	-0.0	-8.1	+0.0
15 Minimum price 40p + total off-t discount ban	-15	-0.0	-0.4	-0.4	-0.1	-18	-0.2	-0.4	-0.8	-2.2	-0.0	-0.1	-0.1	-0.2	-0.0	-9.3	+0.0
16 Minimum price 45p + total off-t discount ban	-20	-0.0	-0.5	-0.6	-0.1	-24	-0.3	-0.5	-1.1	-2.9	-0.0	-0.1	-0.2	-0.3	-0.0	-11.6	+0.0
17 Minimum price 50p + total off-t discount ban	-26	-0.0	-0.6	-0.8	-0.2	-31	-0.4	-0.6	-1.4	-3.9	-0.0	-0.1	-0.2	-0.4	-0.0	-14.7	+0.0
18 Minimum price 55p + total off-t discount ban	-34	-0.1	-0.8	-1.0	-0.2	-40	-0.5	-0.8	-1.8	-5.0	-0.0	-0.1	-0.3	-0.5	-0.0	-18.8	+0.0
19 Minimum price 60p + total off-t discount ban	-43	-0.1	-1.0	-1.2	-0.3	-50	-0.6	-1.1	-2.3	-6.2	-0.1	-0.2	-0.4	-0.6	-0.0	-23.7	+0.0
20 Minimum price 65p + total off-t discount ban	-54	-0.1	-1.3	-1.5	-0.4	-61	-0.8	-1.3	-2.9	-7.7	-0.1	-0.2	-0.5	-0.8	-0.0	-29.4	+0.0
21 Minimum price 70p + total off-t discount ban	-63	-0.1	-1.5	-1.8	-0.5	-71	-0.9	-1.6	-3.4	-9.1	-0.1	-0.3	-0.6	-1.0	-0.0	-35.4	+0.0

Table A11.6: Summary tables for sensitivity analysis – lower crime AAFs – harm analysis – moderate drinkers

SUMMARY - HAZARDOUS	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+1	+0.0	+0.0	+0.0	+0.0	+1	+0.0	+0.0	+0.0	+0.1	+0.0	+0.0	+0.0	+0.0	+0.0	+0.2	+0.0
2 Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-2	-0.0	+0.0	-0.0	-0.0	+0.0	-0.0	+0.0	+0.0	+0.0	+0.1	+0.0
3 Minimum price 35p	-3	-0.0	-0.0	-0.1	-0.0	-16	-0.1	-0.1	-0.2	-0.4	-0.0	-0.0	-0.0	-0.0	-0.0	-0.7	+0.0
4 Minimum price 40p	-10	-0.0	-0.1	-0.2	-0.0	-51	-0.3	-0.2	-0.7	-1.4	-0.0	-0.1	-0.1	-0.2	-0.0	-2.9	+0.0
5 Minimum price 45p	-21	-0.1	-0.3	-0.4	-0.1	-107	-0.6	-0.4	-1.6	-2.9	-0.0	-0.1	-0.2	-0.4	-0.0	-7.0	+0.0
6 Minimum price 50p	-35	-0.1	-0.5	-0.8	-0.2	-175	-1.1	-0.6	-2.6	-4.8	-0.1	-0.2	-0.4	-0.7	-0.0	-12.3	+0.0
7 Minimum price 55p	-51	-0.1	-0.7	-1.1	-0.3	-255	-1.6	-0.9	-3.9	-7.0	-0.1	-0.4	-0.7	-1.1	-0.0	-18.8	+0.0
8 Minimum price 60p	-68	-0.2	-1.0	-1.5	-0.3	-338	-2.1	-1.2	-5.2	-9.3	-0.1	-0.5	-0.9	-1.5	-0.0	-25.4	+0.0
9 Minimum price 65p	-84	-0.2	-1.2	-1.9	-0.4	-419	-2.6	-1.5	-6.5	-11.7	-0.2	-0.6	-1.2	-1.9	-0.0	-32.4	+0.0
10 Minimum price 70p	-100	-0.3	-1.5	-2.2	-0.5	-495	-3.2	-1.8	-7.8	-13.9	-0.2	-0.7	-1.5	-2.4	-0.0	-39.8	+0.0
11 Total off-trade discount ban	-18	-0.1	-0.3	-0.4	-0.1	-96	-0.6	-0.3	-1.4	-2.6	-0.0	-0.2	-0.3	-0.5	-0.0	-8.0	+0.0
12 Minimum price 25p + total off-t discount ban	-18	-0.1	-0.3	-0.4	-0.1	-96	-0.6	-0.3	-1.4	-2.6	-0.0	-0.2	-0.3	-0.5	-0.0	-7.9	+0.0
13 Minimum price 30p + total off-t discount ban	-19	-0.1	-0.3	-0.4	-0.1	-98	-0.6	-0.3	-1.4	-2.6	-0.0	-0.2	-0.3	-0.5	-0.0	-7.9	+0.0
14 Minimum price 35p + total off-t discount ban	-21	-0.1	-0.3	-0.5	-0.1	-109	-0.7	-0.4	-1.6	-2.9	-0.0	-0.2	-0.3	-0.6	-0.0	-8.6	+0.0
15 Minimum price 40p + total off-t discount ban	-26	-0.1	-0.4	-0.6	-0.1	-136	-0.8	-0.4	-2.0	-3.7	-0.1	-0.2	-0.4	-0.6	-0.0	-10.5	+0.0
16 Minimum price 45p + total off-t discount ban	-35	-0.1	-0.5	-0.8	-0.2	-178	-1.1	-0.6	-2.7	-4.9	-0.1	-0.3	-0.5	-0.8	-0.0	-13.7	+0.0
17 Minimum price 50p + total off-t discount ban	-46	-0.1	-0.7	-1.0	-0.2	-234	-1.4	-0.8	-3.5	-6.4	-0.1	-0.3	-0.7	-1.1	-0.0	-18.1	+0.0
18 Minimum price 55p + total off-t discount ban	-60	-0.2	-0.9	-1.3	-0.3	-303	-1.9	-1.0	-4.6	-8.4	-0.1	-0.4	-0.9	-1.4	-0.0	-23.5	+0.0
19 Minimum price 60p + total off-t discount ban	-75	-0.2	-1.1	-1.7	-0.4	-375	-2.3	-1.3	-5.8	-10.4	-0.1	-0.5	-1.1	-1.7	-0.0	-29.4	+0.0
20 Minimum price 65p + total off-t discount ban	-90	-0.3	-1.3	-2.0	-0.5	-448	-2.8	-1.6	-7.0	-12.5	-0.2	-0.6	-1.3	-2.1	-0.0	-35.8	+0.0
21 Minimum price 70p + total off-t discount ban	-105	-0.3	-1.6	-2.4	-0.6	-522	-3.3	-1.8	-8.2	-14.6	-0.2	-0.8	-1.6	-2.5	-0.0	-42.8	+0.0

Table A11.7: Summary tables for sensitivity analysis – lower crime AAFs – harm analysis – hazardous drinkers

SUMMARY - HARMFUL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
1 Minimum price 25p	-1	-0.0	-0.0	-0.0	-0.0	-4	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.6	-0.1
2 Minimum price 30p	-2	-0.0	-0.0	-0.1	-0.0	-11	-0.1	-0.0	-0.2	-0.3	-0.0	-0.0	-0.1	-0.1	-0.0	-1.5	-0.2
3 Minimum price 35p	-5	-0.0	-0.1	-0.1	-0.0	-30	-0.3	-0.1	-0.6	-0.8	-0.0	-0.1	-0.2	-0.3	-0.0	-3.3	-0.4
4 Minimum price 40p	-10	-0.0	-0.1	-0.3	-0.1	-62	-0.5	-0.1	-1.2	-1.6	-0.1	-0.2	-0.4	-0.7	-0.0	-6.3	-0.7
5 Minimum price 45p	-17	-0.1	-0.2	-0.5	-0.1	-105	-0.8	-0.2	-2.0	-2.7	-0.1	-0.4	-0.7	-1.1	-0.0	-10.3	-1.2
6 Minimum price 50p	-26	-0.1	-0.4	-0.7	-0.1	-154	-1.2	-0.3	-2.9	-4.0	-0.1	-0.5	-1.0	-1.6	-0.0	-14.9	-1.7
7 Minimum price 55p	-35	-0.2	-0.5	-0.9	-0.2	-208	-1.6	-0.5	-3.8	-5.4	-0.2	-0.7	-1.3	-2.1	-0.0	-19.8	-2.2
8 Minimum price 60p	-43	-0.2	-0.6	-1.1	-0.2	-258	-2.0	-0.6	-4.7	-6.7	-0.2	-0.9	-1.6	-2.7	-0.0	-24.4	-2.7
9 Minimum price 65p	-52	-0.2	-0.7	-1.3	-0.3	-310	-2.4	-0.7	-5.6	-8.0	-0.3	-1.1	-1.9	-3.3	-0.0	-29.3	-3.1
10 Minimum price 70p	-60	-0.3	-0.8	-1.5	-0.3	-363	-2.8	-0.8	-6.5	-9.3	-0.3	-1.2	-2.2	-3.8	-0.0	-34.2	-3.5
11 Total off-trade discount ban	-9	-0.0	-0.1	-0.2	-0.0	-54	-0.4	-0.1	-1.0	-1.4	-0.0	-0.2	-0.3	-0.5	-0.0	-5.0	-0.6
12 Minimum price 25p + total off-t discount ban	-10	-0.0	-0.1	-0.2	-0.1	-58	-0.5	-0.1	-1.1	-1.5	-0.0	-0.2	-0.3	-0.6	-0.0	-5.5	-0.7
13 Minimum price 30p + total off-t discount ban	-10	-0.1	-0.1	-0.3	-0.1	-64	-0.5	-0.1	-1.2	-1.7	-0.0	-0.2	-0.4	-0.6	-0.0	-6.2	-0.7
14 Minimum price 35p + total off-t discount ban	-13	-0.1	-0.2	-0.3	-0.1	-80	-0.7	-0.2	-1.5	-2.1	-0.1	-0.2	-0.5	-0.8	-0.0	-7.7	-0.9
15 Minimum price 40p + total off-t discount ban	-18	-0.1	-0.2	-0.5	-0.1	-107	-0.9	-0.2	-2.0	-2.8	-0.1	-0.3	-0.7	-1.1	-0.0	-10.3	-1.2
16 Minimum price 45p + total off-t discount ban	-24	-0.1	-0.3	-0.6	-0.1	-143	-1.1	-0.3	-2.7	-3.7	-0.1	-0.5	-0.9	-1.5	-0.0	-13.7	-1.6
17 Minimum price 50p + total off-t discount ban	-31	-0.1	-0.4	-0.8	-0.2	-185	-1.5	-0.4	-3.4	-4.8	-0.1	-0.6	-1.1	-1.9	-0.0	-17.7	-2.0
18 Minimum price 55p + total off-t discount ban	-39	-0.2	-0.5	-1.0	-0.2	-232	-1.8	-0.5	-4.3	-6.0	-0.2	-0.8	-1.4	-2.4	-0.0	-22.1	-2.5
19 Minimum price 60p + total off-t discount ban	-46	-0.2	-0.6	-1.2	-0.3	-277	-2.2	-0.6	-5.0	-7.2	-0.2	-0.9	-1.7	-2.9	-0.0	-26.3	-2.9
20 Minimum price 65p + total off-t discount ban	-54	-0.3	-0.7	-1.4	-0.3	-326	-2.5	-0.7	-5.9	-8.4	-0.3	-1.1	-2.1	-3.4	-0.0	-30.9	-3.2
21 Minimum price 70p + total off-t discount ban	-63	-0.3	-0.9	-1.6	-0.3	-377	-2.9	-0.8	-6.7	-9.7	-0.3	-1.3	-2.4	-3.9	-0.0	-35.7	-3.6

Table A11.8: Summary tables for sensitivity analysis – lower crime AAFs – harm analysis – harmful drinkers



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SUMMARY - TOTAL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs
1 Minimum price 25p	+0.3	-0	-0	-1.6	-1.4	+8	-0	-6	+2	-	-	-14	-12	+13	-	+1
2 Minimum price 30p	+0.0	-0	-1	-3.8	-4.0	+0	-0	-4.0	-2	-	-1	-32	-35	-8	-	-44
3 Minimum price 35p	-1.0	-2	-4	-8.7	-10.3	-2.7	-1	-13.1	-17	-2	-3	-72	-94	-74	-1	-169
4 Minimum price 40p	-2.8	-5	-1.0	-16.4	-20.8	-7.3	-2	-28.3	-43	-4	-8	-137	-193	-193	-2	-388
5 Minimum price 45p	-5.5	-1.0	-1.9	-26.5	-35.0	-14.3	-5	-49.7	-83	-8	-16	-221	-328	-369	-4	-702
6 Minimum price 50p	-8.8	-1.6	-3.1	-37.5	-51.0	-22.8	-8	-74.6	-132	-13	-26	-312	-483	-583	-7	-1,074
7 Minimum price 55p	-12.7	-2.3	-4.6	-48.6	-68.1	-32.9	-1.1	-102.1	-188	-19	-38	-404	-649	-831	-10	-1,491
8 Minimum price 60p	-16.7	-3.0	-6.0	-58.1	-83.7	-43.4	-1.5	-128.6	-247	-25	-50	-483	-804	-1,084	-13	-1,902
9 Minimum price 65p	-20.8	-3.7	-7.6	-67.4	-99.5	-54.3	-1.8	-155.7	-306	-31	-63	-560	-961	-1,342	-17	-2,319
10 Minimum price 70p	-25.0	-4.4	-9.2	-76.1	-114.8	-65.4	-2.2	-182.4	-366	-37	-77	-633	-1,113	-1,599	-20	-2,732
11 Total off-trade discount ban	-4.2	-8	-1.8	-13.9	-20.7	-11.1	-4	-32.3	-61	-7	-15	-115	-199	-274	-4	-477
12 Minimum price 25p + total off-t discount ban	-4.3	-8	-1.9	-15.2	-22.2	-11.3	-4	-34.0	-62	-7	-16	-127	-212	-280	-4	-496
13 Minimum price 30p + total off-t discount ban	-4.5	-9	-2.0	-17.0	-24.3	-11.8	-5	-36.6	-65	-7	-16	-141	-230	-293	-4	-528
14 Minimum price 35p + total off-t discount ban	-5.2	-1.0	-2.2	-21.0	-29.3	-13.6	-5	-43.5	-76	-8	-18	-175	-277	-341	-5	-622
15 Minimum price 40p + total off-t discount ban	-6.6	-1.2	-2.7	-27.4	-37.9	-17.4	-6	-56.0	-98	-10	-22	-228	-358	-437	-6	-801
16 Minimum price 45p + total off-t discount ban	-8.8	-1.6	-3.4	-35.5	-49.4	-23.1	-8	-73.3	-131	-13	-29	-295	-468	-579	-8	-1,054
17 Minimum price 50p + total off-t discount ban	-11.6	-2.1	-4.4	-44.7	-62.8	-30.3	-1.1	-94.1	-171	-18	-37	-372	-597	-758	-10	-1,365
18 Minimum price 55p + total off-t discount ban	-14.9	-2.7	-5.6	-54.0	-77.3	-39.0	-1.3	-117.6	-220	-22	-47	-449	-739	-972	-12	-1,724
19 Minimum price 60p + total off-t discount ban	-18.5	-3.3	-6.9	-62.4	-91.2	-48.4	-1.7	-141.3	-273	-28	-58	-519	-877	-1,197	-15	-2,089
20 Minimum price 65p + total off-t discount ban	-22.5	-4.0	-8.4	-70.9	-105.7	-58.7	-2.0	-166.5	-329	-33	-70	-589	-1,021	-1,438	-18	-2,478
21 Minimum price 70p + total off-t discount ban	-26.3	-4.7	-9.9	-79.0	-120.0	-68.9	-2.4	-191.2	-385	-39	-83	-657	-1,164	-1,678	-22	-2,864

Table A11.9: Summary tables for sensitivity analysis – lower crime AAFs – financial value – overall population

SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
1 Minimum price 25p	+0.3	+0	-0	+0	+3	+8	+0	+1.1	+3	+	-	+	+3	+15	+	+18
2 Minimum price 30p	+0.2	+0	-0	+0	+2	+5	+0	+7	+2	+	-	+	+2	+8	+	+10
3 Minimum price 35p	-0.2	+0	-1	+0	-3	-5	+0	-8	-3	+	-1	+	-3	-13	+	-15
4 Minimum price 40p	-0.8	+0	-2	+0	-9	-1.9	+0	-2.8	-9	+	-2	+	-10	-42	+	-53
5 Minimum price 45p	-1.6	-0	-5	+0	-2.1	-4.0	-0	-6.1	-18	-	-4	+	-22	-86	-	-109
6 Minimum price 50p	-2.6	-1	-8	+0	-3.5	-6.6	-1	-10.2	-30	-1	-7	+	-38	-141	-1	-179
7 Minimum price 55p	-3.9	-2	-1.3	+0	-5.3	-9.9	-1	-15.3	-45	-1	-11	+	-57	-207	-1	-265
8 Minimum price 60p	-5.3	-3	-1.8	+0	-7.3	-13.5	-2	-21.0	-61	-2	-15	+	-78	-278	-2	-357
9 Minimum price 65p	-6.8	-4	-2.4	+0	-9.5	-17.4	-2	-27.1	-78	-3	-20	+	-101	-353	-2	-456
10 Minimum price 70p	-8.3	-5	-3.0	+0	-11.8	-21.5	-3	-33.6	-95	-4	-25	+	-124	-430	-3	-558
11 Total off-trade discount ban	-1.4	-2	-7	+0	-2.3	-3.8	-1	-6.1	-16	-1	-6	+	-23	-74	-1	-97
12 Minimum price 25p + total off-t discount ban	-1.4	-2	-7	+0	-2.3	-3.7	-1	-6.1	-16	-1	-6	+	-23	-74	-1	-97
13 Minimum price 30p + total off-t discount ban	-1.4	-1	-7	+0	-2.3	-3.8	-1	-6.2	-16	-1	-6	+	-23	-76	-1	-100
14 Minimum price 35p + total off-t discount ban	-1.6	-1	-8	+0	-2.5	-4.3	-1	-7.0	-18	-1	-6	+	-26	-87	-1	-114
15 Minimum price 40p + total off-t discount ban	-2.1	-1	-9	+0	-3.1	-5.4	-1	-8.6	-24	-1	-7	+	-32	-111	-1	-144
16 Minimum price 45p + total off-t discount ban	-2.8	-2	-1.1	+0	-4.0	-7.2	-1	-11.3	-31	-1	-9	+	-42	-147	-1	-190
17 Minimum price 50p + total off-t discount ban	-3.6	-2	-1.4	+0	-5.2	-9.3	-1	-14.7	-41	-2	-11	+	-54	-193	-1	-248
18 Minimum price 55p + total off-t discount ban	-4.7	-3	-1.7	+0	-6.7	-12.1	-2	-19.0	-54	-2	-14	+	-70	-249	-2	-321
19 Minimum price 60p + total off-t discount ban	-6.0	-4	-2.2	+0	-8.5	-15.3	-2	-24.1	-68	-3	-18	+	-89	-312	-2	-403
20 Minimum price 65p + total off-t discount ban	-7.4	-5	-2.7	+0	-10.6	-19.1	-3	-30.1	-85	-4	-22	+	-111	-384	-3	-498
21 Minimum price 70p + total off-t discount ban	-8.8	-6	-3.2	+0	-12.6	-22.7	-4	-35.7	-100	-5	-27	+	-132	-453	-3	-589

Table A11.10: Summary tables for sensitivity analysis - lower crime AAFs – financial value – moderate drinkers

SUMMARY - HAZARDOUS	Value of harm reduction in year 1 (£ millions)									Cumulative discounted value of harm reduction over 10 years (£m)						
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
1 Minimum price 25p	+0.1	+0	+0	+0	+1	+2	+0	+3	+1	+	+	+	+1	+4	+	+5
2 Minimum price 30p	+0.0	+0	+0	+0	+0	+1	+0	+1	-	+	+	+	-	-1	+	-1
3 Minimum price 35p	-0.3	-0	-1	+0	-4	-7	-0	-1.0	-5	-	-	+	-5	-21	-	-27
4 Minimum price 40p	-0.9	-1	-2	+0	-1.3	-2.4	-0	-3.7	-15	-1	-2	+	-18	-68	-	-87
5 Minimum price 45p	-2.0	-2	-6	+0	-2.9	-5.2	-1	-8.1	-32	-2	-5	+	-39	-144	-1	-184
6 Minimum price 50p	-3.4	-4	-1.1	+0	-4.9	-8.8	-2	-13.9	-54	-4	-9	+	-66	-239	-2	-307
7 Minimum price 55p	-5.0	-7	-1.6	+0	-7.3	-13.0	-3	-20.6	-79	-6	-13	+	-98	-351	-3	-452
8 Minimum price 60p	-6.7	-9	-2.2	+0	-9.8	-17.5	-5	-27.7	-106	-7	-18	+	-132	-467	-4	-603
9 Minimum price 65p	-8.5	-1.1	-2.8	+0	-12.3	-22.0	-6	-34.9	-133	-9	-23	+	-166	-583	-5	-754
10 Minimum price 70p	-10.1	-1.4	-3.4	+0	-14.9	-26.4	-7	-42.0	-160	-11	-28	+	-199	-694	-6	-900
11 Total off-trade discount ban	-1.8	-3	-7	+0	-2.8	-4.8	-2	-7.8	-29	-3	-6	+	-37	-128	-1	-167
12 Minimum price 25p + total off-t discount ban	-1.8	-3	-7	+0	-2.8	-4.8	-2	-7.8	-29	-3	-6	+	-37	-129	-1	-167
13 Minimum price 30p + total off-t discount ban	-1.9	-3	-7	+0	-2.9	-4.9	-2	-7.9	-29	-3	-6	+	-38	-132	-1	-172
14 Minimum price 35p + total off-t discount ban	-2.1	-3	-8	+0	-3.2	-5.4	-2	-8.8	-33	-3	-6	+	-42	-147	-2	-191
15 Minimum price 40p + total off-t discount ban	-2.6	-4	-9	+0	-3.9	-6.8	-2	-10.9	-41	-3	-8	+	-52	-184	-2	-238
16 Minimum price 45p + total off-t discount ban	-3.5	-5	-1.2	+0	-5.1	-9.0	-2	-14.4	-55	-4	-10	+	-68	-243	-2	-314
17 Minimum price 50p + total off-t discount ban	-4.6	-6	-1.6	+0	-6.8	-12.0	-3	-19.1	-73	-5	-13	+	-91	-322	-3	-416
18 Minimum price 55p + total off-t discount ban	-6.0	-8	-2.0	+0	-8.8	-15.6	-4	-24.9	-95	-7	-17	+	-118	-418	-4	-540
19 Minimum price 60p + total off-t discount ban	-7.6	-1.0	-2.5	+0	-11.1	-19.6	-5	-31.3	-119	-8	-21	+	-148	-521	-5	-674
20 Minimum price 65p + total off-t discount ban	-9.1	-1.2	-3.1	+0	-13.4	-23.8	-6	-37.8	-144	-10	-25	+	-179	-626	-6	-811
21 Minimum price 70p + total off-t discount ban	-10.7	-1.5	-3.7	+0	-15.8	-28.0	-7	-44.5	-169	-12	-30	+	-211	-732	-7	-950

Table A11.11: Summary tables for sensitivity analysis – lower crime AAFs – financial value – hazardous drinkers

SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
Policy Scenario																
1 Minimum price 25p	-0.1	-0	-1	-1.6	-1.8	-2	-0	-2.0	-1	-	-	-14	-16	-6	-	-21
2 Minimum price 30p	-0.2	-1	-1	-3.8	-4.2	-6	-0	-4.8	-4	-1	-1	-32	-37	-15	-	-52
3 Minimum price 35p	-0.5	-2	-3	-8.7	-9.7	-1.5	-1	-11.3	-10	-2	-2	-72	-86	-40	-1	-127
4 Minimum price 40p	-1.1	-4	-5	-16.4	-18.5	-3.0	-2	-21.6	-19	-3	-4	-137	-164	-81	-2	-247
5 Minimum price 45p	-1.8	-7	-9	-26.5	-29.9	-4.9	-3	-35.1	-32	-6	-7	-221	-266	-137	-3	-406
6 Minimum price 50p	-2.7	-9	-1.2	-37.5	-42.4	-7.2	-4	-50.0	-47	-8	-10	-312	-377	-200	-4	-582
7 Minimum price 55p	-3.6	-1.3	-1.6	-48.6	-55.1	-9.7	-6	-65.4	-63	-10	-14	-404	-491	-269	-5	-766
8 Minimum price 60p	-4.5	-1.6	-2.0	-58.1	-66.2	-12.0	-7	-78.9	-78	-13	-17	-483	-591	-334	-7	-931
9 Minimum price 65p	-5.4	-1.9	-2.4	-67.4	-77.1	-14.3	-9	-92.3	-93	-16	-20	-560	-690	-399	-8	-1,098
10 Minimum price 70p	-6.3	-2.2	-2.8	-76.1	-87.4	-16.7	-1.0	-105.2	-109	-18	-24	-633	-784	-467	-10	-1,260
11 Total off-trade discount ban	-0.9	-3	-4	-13.9	-15.5	-2.5	-2	-18.1	-17	-3	-4	-115	-138	-71	-1	-210
12 Minimum price 25p + total off-t discount ban	-1.0	-3	-5	-15.2	-17.0	-2.7	-2	-19.9	-18	-3	-4	-127	-151	-76	-1	-229
13 Minimum price 30p + total off-t discount ban	-1.1	-4	-5	-17.0	-19.0	-3.0	-2	-22.1	-20	-3	-4	-141	-168	-84	-2	-254
14 Minimum price 35p + total off-t discount ban	-1.4	-5	-7	-21.0	-23.5	-3.7	-2	-27.4	-24	-4	-6	-175	-208	-104	-2	-315
15 Minimum price 40p + total off-t discount ban	-1.9	-6	-9	-27.4	-30.7	-4.9	-3	-36.0	-33	-5	-7	-228	-273	-139	-3	-415
16 Minimum price 45p + total off-t discount ban	-2.5	-9	-1.2	-35.5	-40.0	-6.6	-4	-47.0	-44	-7	-10	-295	-356	-186	-4	-545
17 Minimum price 50p + total off-t discount ban	-3.2	-1.1	-1.5	-44.7	-50.5	-8.6	-5	-59.6	-56	-9	-12	-372	-449	-240	-5	-694
18 Minimum price 55p + total off-t discount ban	-4.1	-1.4	-1.9	-54.0	-61.3	-10.8	-7	-72.8	-71	-12	-15	-449	-547	-301	-6	-854
19 Minimum price 60p + total off-t discount ban	-4.8	-1.7	-2.2	-62.4	-71.1	-12.9	-8	-84.8	-84	-14	-18	-519	-635	-359	-7	-1,001
20 Minimum price 65p + total off-t discount ban	-5.7	-2.0	-2.6	-70.9	-81.1	-15.1	-9	-97.2	-98	-17	-21	-589	-726	-421	-9	-1,155
21 Minimum price 70p + total off-t discount ban	-6.5	-2.3	-3.0	-79.0	-90.8	-17.4	-1.1	-109.3	-113	-19	-25	-657	-814	-485	-10	-1,309

Table A11.12: Summary tables for sensitivity analysis – lower crime AAFs – financial value – harmful drinkers

**Appendix 12: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade**

SUMMARY - TOTAL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	Policy Scenario	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.
1 Minimum price 25p	-0.1%	-2.0	+0.8	+0.2	+0.0	-0.9	+4.5	+3.4	-0.2	+1.0	+8.7	+0.3%	+2.30	+1.25
2 Minimum price 30p	-0.3%	-4.5	+1.7	+0.2	+0.0	-2.6	+10.4	+8.2	-1.0	+2.5	+20.1	+0.8%	+5.31	+3.33
3 Minimum price 35p	-0.9%	-7.2	+2.3	-2.2	+0.0	-7.1	+21.7	+16.0	-3.6	+4.9	+38.8	+1.5%	+10.25	+8.03
4 Minimum price 40p	-2.0%	-10.0	+1.2	-7.1	+0.1	-15.8	+38.7	+26.6	-9.1	+8.1	+64.3	+2.4%	+16.96	+16.44
5 Minimum price 45p	-3.7%	-13.2	-2.7	-13.3	+0.1	-29.1	+59.7	+39.0	-17.4	+11.8	+93.2	+3.5%	+24.59	+28.89
6 Minimum price 50p	-5.8%	-16.7	-8.4	-20.3	+0.1	-45.3	+80.2	+52.2	-27.9	+15.8	+120.2	+4.6%	+31.73	+43.76
7 Minimum price 55p	-8.2%	-20.2	-16.1	-27.9	+0.1	-64.2	+98.7	+66.3	-40.7	+20.0	+144.3	+5.5%	+38.07	+61.05
8 Minimum price 60p	-10.7%	-22.4	-24.8	-35.9	-0.0	-83.2	+114.6	+81.3	-54.1	+24.4	+166.1	+6.3%	+43.85	+79.84
9 Minimum price 65p	-13.2%	-24.3	-34.6	-44.1	-0.1	-103.2	+125.7	+97.5	-69.0	+28.9	+183.1	+6.9%	+48.31	+100.13
10 Minimum price 70p	-15.9%	-26.1	-45.0	-52.6	-0.3	-124.0	+130.4	+114.7	-85.4	+33.5	+193.2	+7.3%	+50.99	+121.37
11 Total off-trade discount ban	-2.8%	-6.2	-12.4	-3.1	-0.2	-21.9	+43.9	+12.3	-9.5	+3.7	+50.4	+1.9%	+13.29	+21.83
12 Minimum price 25p + total off-t discount ban	-2.9%	-7.8	-11.8	-2.9	-0.2	-22.7	+47.2	+15.0	-9.8	+4.6	+56.9	+2.2%	+15.01	+22.84
13 Minimum price 30p + total off-t discount ban	-3.1%	-9.6	-11.2	-3.0	-0.2	-24.1	+51.2	+18.7	-10.6	+5.7	+65.1	+2.5%	+17.17	+24.41
14 Minimum price 35p + total off-t discount ban	-3.6%	-11.5	-10.9	-5.2	-0.2	-27.8	+59.8	+25.3	-13.0	+7.7	+79.7	+3.0%	+21.03	+28.16
15 Minimum price 40p + total off-t discount ban	-4.5%	-13.4	-11.8	-9.6	-0.2	-35.0	+72.4	+34.5	-17.9	+10.5	+99.6	+3.8%	+26.27	+34.98
16 Minimum price 45p + total off-t discount ban	-5.9%	-15.8	-14.7	-15.2	-0.1	-45.9	+87.1	+45.5	-25.3	+13.8	+121.2	+4.6%	+31.98	+44.97
17 Minimum price 50p + total off-t discount ban	-7.6%	-18.7	-19.1	-21.6	-0.1	-59.5	+101.2	+57.5	-34.9	+17.4	+141.2	+5.4%	+37.27	+57.32
18 Minimum price 55p + total off-t discount ban	-9.7%	-21.7	-25.4	-28.7	-0.2	-75.9	+113.6	+70.6	-46.7	+21.3	+158.9	+6.0%	+41.93	+72.13
19 Minimum price 60p + total off-t discount ban	-11.9%	-23.4	-32.9	-36.4	-0.2	-92.9	+124.9	+84.9	-59.5	+25.5	+175.8	+6.7%	+46.39	+89.04
20 Minimum price 65p + total off-t discount ban	-14.3%	-24.9	-41.8	-44.5	-0.3	-111.6	+132.3	+100.6	-74.0	+29.8	+188.8	+7.2%	+49.82	+107.96
21 Minimum price 70p + total off-t discount ban	-16.8%	-26.4	-51.5	-52.9	-0.5	-131.3	+134.1	+117.4	-90.0	+34.3	+195.8	+7.4%	+51.68	+128.14

**Table A12.1: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – consumption analysis – overall population**

SUMMARY - MODERATE	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	+0.0%	-0.2	+0.1	+0.1	+0.0	+0.0	+0.7	+0.8	+0.0	+0.3	+1.8	+0.2%	+0.69	+0.27
2 Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.1	+1.5	+1.9	-0.1	+0.6	+3.8	+0.4%	+1.51	+0.69
3 Minimum price 35p	-0.2%	-0.2	-0.1	-0.4	+0.0	-0.6	+3.3	+3.6	-0.3	+1.1	+7.6	+0.8%	+3.01	+1.75
4 Minimum price 40p	-0.6%	+0.0	-0.7	-1.3	+0.0	-1.9	+6.4	+5.9	-0.9	+1.8	+13.1	+1.5%	+5.18	+3.72
5 Minimum price 45p	-1.4%	+0.2	-2.1	-2.5	+0.0	-4.3	+10.9	+8.6	-1.9	+2.6	+20.1	+2.2%	+7.94	+6.96
6 Minimum price 50p	-2.3%	+0.3	-4.0	-3.8	+0.0	-7.4	+15.9	+11.4	-3.0	+3.4	+27.7	+3.1%	+10.91	+11.05
7 Minimum price 55p	-3.6%	+0.5	-6.6	-5.3	+0.1	-11.4	+21.5	+14.4	-4.6	+4.3	+35.6	+4.0%	+14.06	+16.14
8 Minimum price 60p	-5.0%	+0.5	-9.4	-7.0	+0.1	-15.8	+26.7	+17.6	-6.4	+5.2	+43.1	+4.8%	+17.02	+21.74
9 Minimum price 65p	-6.5%	+0.6	-12.5	-8.7	+0.1	-20.6	+31.2	+21.2	-8.5	+6.2	+50.2	+5.6%	+19.80	+27.98
10 Minimum price 70p	-8.1%	+0.6	-15.8	-10.5	+0.1	-25.6	+34.9	+25.1	-10.7	+7.2	+56.4	+6.3%	+22.27	+34.53
11 Total off-trade discount ban	-1.6%	-0.4	-4.1	-0.6	-0.0	-5.2	+10.2	+2.5	-1.1	+0.7	+12.3	+1.4%	+4.84	+6.98
12 Minimum price 25p + total off-t discount ban	-1.6%	-0.6	-4.0	-0.5	-0.0	-5.2	+10.7	+3.1	-1.1	+0.9	+13.7	+1.5%	+5.40	+7.21
13 Minimum price 30p + total off-t discount ban	-1.7%	-0.7	-4.1	-0.5	-0.0	-5.3	+11.3	+3.9	-1.2	+1.2	+15.3	+1.7%	+6.03	+7.55
14 Minimum price 35p + total off-t discount ban	-1.8%	-0.6	-4.2	-0.9	-0.0	-5.8	+12.9	+5.4	-1.5	+1.6	+18.5	+2.1%	+7.29	+8.44
15 Minimum price 40p + total off-t discount ban	-2.2%	-0.3	-4.7	-1.9	-0.0	-6.9	+15.4	+7.5	-2.0	+2.2	+23.1	+2.6%	+9.10	+10.09
16 Minimum price 45p + total off-t discount ban	-2.8%	-0.1	-5.8	-2.9	-0.0	-8.7	+18.6	+9.9	-2.8	+3.0	+28.6	+3.2%	+11.30	+12.68
17 Minimum price 50p + total off-t discount ban	-3.6%	+0.1	-7.2	-4.1	+0.0	-11.3	+22.3	+12.5	-3.9	+3.7	+34.6	+3.8%	+13.65	+16.01
18 Minimum price 55p + total off-t discount ban	-4.6%	+0.3	-9.3	-5.5	+0.0	-14.6	+26.4	+15.3	-5.4	+4.6	+40.9	+4.6%	+16.15	+20.27
19 Minimum price 60p + total off-t discount ban	-5.8%	+0.4	-11.7	-7.1	+0.0	-18.4	+30.4	+18.4	-7.1	+5.5	+47.2	+5.2%	+18.60	+25.21
20 Minimum price 65p + total off-t discount ban	-7.2%	+0.5	-14.6	-8.8	+0.0	-22.9	+34.0	+21.9	-9.1	+6.4	+53.2	+5.9%	+20.98	+30.95
21 Minimum price 70p + total off-t discount ban	-8.7%	+0.6	-17.6	-10.6	+0.0	-27.6	+36.9	+25.7	-11.4	+7.4	+58.6	+6.5%	+23.12	+37.12

Table A12.2: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – consumption analysis – moderate drinkers

SUMMARY - HAZARDOUS	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.	Change in if no change in consump.
1 Minimum price 25p	+0.0%	-2.5	+2.4	+0.4	+0.0	+0.3	+1.7	+1.7	+0.1	+0.5	+4.1	+0.4%	+4.79	+1.84
2 Minimum price 30p	-0.0%	-5.7	+4.9	+0.4	+0.0	-0.4	+4.2	+4.1	+0.1	+1.2	+9.6	+0.9%	+11.36	+5.23
3 Minimum price 35p	-0.3%	-8.8	+7.1	-3.1	+0.0	-4.8	+8.6	+7.9	-0.6	+2.4	+18.3	+1.8%	+21.55	+12.71
4 Minimum price 40p	-1.2%	-11.8	+5.5	-10.7	+0.1	-17.0	+15.7	+13.2	-2.4	+4.0	+30.5	+2.9%	+35.92	+27.41
5 Minimum price 45p	-2.7%	-15.4	-3.0	-20.8	+0.1	-39.1	+24.8	+19.5	-5.6	+5.9	+44.6	+4.3%	+52.55	+50.45
6 Minimum price 50p	-4.7%	-19.1	-15.8	-32.8	+0.0	-67.7	+33.9	+26.2	-9.9	+8.0	+58.2	+5.6%	+68.61	+78.56
7 Minimum price 55p	-7.2%	-23.1	-33.4	-46.0	-0.1	-102.5	+42.1	+33.4	-15.3	+10.2	+70.3	+6.8%	+82.87	+111.34
8 Minimum price 60p	-9.7%	-25.1	-53.3	-59.8	-0.2	-138.3	+48.7	+41.0	-21.2	+12.4	+80.9	+7.8%	+95.41	+146.80
9 Minimum price 65p	-12.3%	-25.5	-75.3	-74.3	-0.4	-175.5	+53.3	+49.2	-27.6	+14.7	+89.7	+8.6%	+105.71	+184.94
10 Minimum price 70p	-15.0%	-26.7	-98.6	-89.2	-0.6	-215.0	+54.8	+57.8	-34.8	+17.0	+94.9	+9.1%	+111.84	+224.99
11 Total off-trade discount ban	-3.0%	-9.6	-26.5	-6.0	-0.3	-42.3	+18.1	+6.2	-4.5	+1.9	+21.8	+2.1%	+25.69	+41.52
12 Minimum price 25p + total off-t discount ban	-3.0%	-11.6	-24.7	-5.7	-0.3	-42.3	+19.4	+7.6	-4.4	+2.3	+24.9	+2.4%	+29.32	+43.01
13 Minimum price 30p + total off-t discount ban	-3.0%	-13.9	-23.1	-5.8	-0.3	-43.0	+21.1	+9.4	-4.5	+2.9	+28.9	+2.8%	+34.09	+45.52
14 Minimum price 35p + total off-t discount ban	-3.3%	-15.8	-21.6	-9.1	-0.3	-46.7	+24.5	+12.6	-5.2	+3.8	+35.8	+3.4%	+42.18	+51.42
15 Minimum price 40p + total off-t discount ban	-4.0%	-17.3	-23.0	-16.0	-0.2	-56.5	+29.7	+17.2	-6.8	+5.3	+45.4	+4.4%	+53.50	+63.08
16 Minimum price 45p + total off-t discount ban	-5.2%	-19.6	-29.2	-24.9	-0.2	-73.9	+35.9	+22.8	-9.6	+6.9	+56.0	+5.4%	+66.07	+81.19
17 Minimum price 50p + total off-t discount ban	-6.8%	-22.4	-39.0	-35.6	-0.3	-97.3	+42.1	+28.8	-13.4	+8.8	+66.3	+6.4%	+78.15	+104.16
18 Minimum price 55p + total off-t discount ban	-8.9%	-25.6	-53.1	-47.6	-0.3	-126.7	+47.4	+35.5	-18.4	+10.8	+75.3	+7.2%	+88.83	+131.90
19 Minimum price 60p + total off-t discount ban	-11.1%	-26.7	-70.3	-61.0	-0.4	-158.5	+51.9	+42.7	-23.9	+12.9	+83.7	+8.0%	+98.69	+163.67
20 Minimum price 65p + total off-t discount ban	-13.5%	-26.5	-90.4	-75.2	-0.6	-192.8	+55.0	+50.6	-30.1	+15.1	+90.7	+8.7%	+106.90	+199.20
21 Minimum price 70p + total off-t discount ban	-16.1%	-27.2	-112.2	-90.0	-0.8	-230.2	+55.2	+59.0	-37.2	+17.4	+94.5	+9.1%	+111.39	+237.21

Table A12.3: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – consumption analysis – hazardous drinkers

SUMMARY - HARMFUL	Mean annual consumption per drinker (units)						Total spending on alcohol (£ millions)						Per drinker (£ p)	
	Policy Scenario	% change in consumption (all beverages)	Beer/Cider	Wine	Spirit	RTD	All beverages	Off retail (exc duty + VAT)	On retail (exc duty + VAT)	Off duty + VAT	On duty + VAT	Total spending change	% spending change	Change in spend per drinker p.a.
1 Minimum price 25p	-0.4%	-20.5	+3.9	+1.0	+0.0	-15.6	+2.1	+0.9	-0.3	+0.3	+2.9	+0.4%	+11.93	+10.22
2 Minimum price 30p	-1.0%	-47.6	+8.7	-0.0	+0.1	-38.9	+4.6	+2.2	-1.0	+0.7	+6.6	+1.0%	+27.33	+26.48
3 Minimum price 35p	-2.4%	-80.0	+12.2	-20.5	+0.1	-88.2	+9.6	+4.4	-2.7	+1.4	+12.6	+1.9%	+52.66	+62.52
4 Minimum price 40p	-4.5%	-116.4	+7.6	-58.9	+0.2	-167.5	+16.2	+7.4	-5.7	+2.2	+20.1	+3.1%	+83.91	+121.32
5 Minimum price 45p	-7.3%	-156.3	-8.9	-108.2	+0.3	-273.0	+23.4	+10.7	-9.9	+3.3	+27.5	+4.2%	+114.78	+200.47
6 Minimum price 50p	-10.5%	-199.3	-32.4	-162.1	+0.4	-393.3	+29.4	+14.3	-14.9	+4.3	+33.1	+5.0%	+137.78	+290.28
7 Minimum price 55p	-14.0%	-242.1	-64.4	-219.1	+0.3	-525.3	+33.8	+18.1	-20.7	+5.5	+36.6	+5.6%	+152.62	+390.91
8 Minimum price 60p	-17.3%	-269.8	-101.5	-277.6	-0.9	-649.9	+37.7	+22.1	-26.4	+6.6	+40.0	+6.1%	+166.50	+499.95
9 Minimum price 65p	-20.9%	-297.8	-144.1	-337.5	-2.2	-781.6	+39.2	+26.4	-32.7	+7.8	+40.7	+6.2%	+169.41	+615.87
10 Minimum price 70p	-24.4%	-321.5	-189.7	-398.8	-4.1	-914.0	+38.4	+31.0	-39.5	+9.0	+39.0	+5.9%	+162.49	+736.68
11 Total off-trade discount ban	-3.7%	-58.3	-56.7	-20.9	-1.6	-137.6	+14.8	+3.5	-3.9	+1.1	+15.5	+2.4%	+64.69	+119.28
12 Minimum price 25p + total off-t discount ban	-4.0%	-74.7	-54.3	-20.2	-1.6	-150.8	+16.3	+4.2	-4.3	+1.3	+17.5	+2.7%	+73.07	+127.50
13 Minimum price 30p + total off-t discount ban	-4.5%	-95.2	-51.2	-21.4	-1.6	-169.3	+18.0	+5.2	-4.8	+1.6	+20.0	+3.1%	+83.36	+139.67
14 Minimum price 35p + total off-t discount ban	-5.6%	-119.3	-49.1	-40.2	-1.5	-210.1	+21.6	+7.1	-6.4	+2.2	+24.4	+3.7%	+101.85	+168.14
15 Minimum price 40p + total off-t discount ban	-7.4%	-146.9	-53.3	-75.3	-1.5	-277.0	+26.4	+9.6	-9.1	+2.9	+29.9	+4.6%	+124.60	+216.11
16 Minimum price 45p + total off-t discount ban	-9.8%	-179.4	-65.8	-119.5	-1.4	-366.1	+31.4	+12.6	-12.8	+3.8	+35.0	+5.3%	+145.83	+281.11
17 Minimum price 50p + total off-t discount ban	-12.6%	-216.4	-84.6	-169.0	-1.3	-471.2	+35.3	+15.8	-17.4	+4.8	+38.5	+5.9%	+160.59	+357.83
18 Minimum price 55p + total off-t discount ban	-15.7%	-253.6	-110.9	-222.8	-1.4	-588.6	+38.1	+19.4	-22.9	+5.9	+40.5	+6.2%	+168.54	+446.24
19 Minimum price 60p + total off-t discount ban	-18.8%	-276.8	-143.2	-280.1	-2.6	-702.7	+40.6	+23.2	-28.3	+6.9	+42.5	+6.5%	+176.87	+545.95
20 Minimum price 65p + total off-t discount ban	-22.1%	-301.6	-182.0	-339.6	-3.8	-827.1	+41.1	+27.4	-34.5	+8.1	+42.1	+6.4%	+175.38	+655.25
21 Minimum price 70p + total off-t discount ban	-25.5%	-323.2	-224.5	-400.6	-5.6	-953.8	+39.5	+31.9	-41.1	+9.3	+39.5	+6.0%	+164.77	+770.73

Table A12.4: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – consumption analysis – harmful drinkers



SUMMARY - TOTAL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+6	-0.0	+0.1	+0.1	+0.0	+2	-0.0	+0.1	-0.0	+0.3	-0.0	-0.0	-0.0	-0.0	-0.0	-0.5	-0.1
2 Minimum price 30p	+2	-0.0	+0.0	-0.0	+0.0	-10	-0.1	+0.0	-0.2	-0.1	-0.0	-0.1	-0.1	-0.1	-0.0	-1.5	-0.2
3 Minimum price 35p	-8	-0.0	-0.1	-0.2	-0.0	-44	-0.3	-0.1	-0.8	-1.3	-0.0	-0.2	-0.2	-0.4	-0.0	-4.0	-0.3
4 Minimum price 40p	-22	-0.1	-0.3	-0.6	-0.1	-109	-0.8	-0.4	-2.0	-3.4	-0.1	-0.4	-0.5	-1.0	-0.0	-9.4	-0.7
5 Minimum price 45p	-44	-0.1	-0.7	-1.1	-0.2	-205	-1.5	-0.8	-3.7	-6.6	-0.2	-0.7	-0.9	-1.9	-0.0	-18.3	-1.1
6 Minimum price 50p	-71	-0.2	-1.1	-1.7	-0.4	-320	-2.3	-1.2	-5.8	-10.3	-0.4	-1.1	-1.5	-3.0	-0.0	-29.6	-1.5
7 Minimum price 55p	-101	-0.3	-1.6	-2.5	-0.6	-450	-3.3	-1.8	-8.2	-14.7	-0.6	-1.6	-2.1	-4.3	-0.0	-43.3	-2.0
8 Minimum price 60p	-133	-0.4	-2.2	-3.2	-0.7	-581	-4.2	-2.4	-10.7	-19.2	-0.8	-2.0	-2.8	-5.6	-0.0	-57.0	-2.4
9 Minimum price 65p	-164	-0.5	-2.7	-4.0	-0.9	-711	-5.2	-3.0	-13.2	-23.7	-1.0	-2.6	-3.5	-7.0	-0.0	-71.8	-2.8
10 Minimum price 70p	-196	-0.6	-3.2	-4.8	-1.1	-840	-6.2	-3.6	-15.7	-28.3	-1.2	-3.1	-4.2	-8.4	-0.1	-87.3	-3.2
11 Total off-trade discount ban	-33	-0.1	-0.6	-0.8	-0.2	-148	-1.1	-0.6	-2.7	-5.0	-0.2	-0.6	-0.9	-1.8	-0.0	-17.6	-0.6
12 Minimum price 25p + total off-t discount ban	-34	-0.1	-0.6	-0.9	-0.2	-153	-1.1	-0.6	-2.8	-5.1	-0.3	-0.6	-0.9	-1.8	-0.0	-18.2	-0.6
13 Minimum price 30p + total off-t discount ban	-36	-0.1	-0.6	-0.9	-0.2	-161	-1.2	-0.6	-2.9	-5.3	-0.3	-0.7	-0.9	-1.9	-0.0	-19.0	-0.7
14 Minimum price 35p + total off-t discount ban	-41	-0.1	-0.7	-1.0	-0.2	-187	-1.4	-0.7	-3.4	-6.2	-0.3	-0.7	-1.0	-2.1	-0.0	-21.2	-0.9
15 Minimum price 40p + total off-t discount ban	-53	-0.2	-0.9	-1.3	-0.3	-239	-1.7	-0.9	-4.4	-7.8	-0.3	-0.9	-1.3	-2.5	-0.0	-25.6	-1.1
16 Minimum price 45p + total off-t discount ban	-70	-0.2	-1.1	-1.7	-0.4	-314	-2.3	-1.2	-5.8	-10.3	-0.4	-1.2	-1.6	-3.2	-0.0	-32.7	-1.5
17 Minimum price 50p + total off-t discount ban	-92	-0.3	-1.5	-2.3	-0.5	-409	-3.0	-1.6	-7.5	-13.5	-0.6	-1.5	-2.1	-4.1	-0.0	-42.0	-1.9
18 Minimum price 55p + total off-t discount ban	-118	-0.4	-1.9	-2.9	-0.7	-523	-3.8	-2.1	-9.6	-17.3	-0.7	-1.9	-2.6	-5.2	-0.0	-53.5	-2.2
19 Minimum price 60p + total off-t discount ban	-146	-0.5	-2.4	-3.6	-0.8	-638	-4.6	-2.6	-11.8	-21.3	-0.9	-2.3	-3.2	-6.4	-0.0	-65.6	-2.6
20 Minimum price 65p + total off-t discount ban	-175	-0.5	-2.9	-4.3	-1.0	-758	-5.5	-3.2	-14.1	-25.5	-1.1	-2.8	-3.8	-7.7	-0.1	-79.3	-3.0
21 Minimum price 70p + total off-t discount ban	-205	-0.6	-3.4	-5.1	-1.2	-879	-6.5	-3.7	-16.5	-29.8	-1.2	-3.3	-4.5	-9.0	-0.1	-93.9	-3.3

Table A12.5: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – harm analysis – overall population

SUMMARY - MODERATE	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
Policy Scenario																	
1 Minimum price 25p	+5	+0.0	+0.1	+0.1	+0.0	+5	-0.0	+0.1	+0.1	+0.3	+0.0	+0.0	+0.0	+0.0	+0.0	-0.0	+0.0
2 Minimum price 30p	+3	-0.0	+0.0	+0.0	+0.0	+3	-0.0	+0.0	+0.0	+0.2	+0.0	+0.0	+0.0	+0.0	+0.0	-0.1	+0.0
3 Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-1	-0.0	-0.0	-0.1	-0.2	+0.0	+0.0	+0.1	+0.1	+0.0	-0.4	+0.0
4 Minimum price 40p	-4	-0.0	-0.1	-0.1	-0.0	-4	-0.1	-0.1	-0.2	-0.6	+0.0	+0.1	+0.1	+0.2	+0.0	-1.2	+0.0
5 Minimum price 45p	-9	-0.0	-0.2	-0.2	-0.1	-10	-0.1	-0.2	-0.5	-1.4	+0.0	+0.1	+0.1	+0.2	+0.0	-3.0	+0.0
6 Minimum price 50p	-15	-0.0	-0.3	-0.4	-0.1	-17	-0.2	-0.4	-0.8	-2.3	+0.0	+0.1	+0.0	+0.1	+0.0	-5.7	+0.0
7 Minimum price 55p	-22	-0.0	-0.5	-0.6	-0.2	-25	-0.3	-0.5	-1.2	-3.3	+0.0	+0.0	-0.0	+0.0	-0.0	-9.2	+0.0
8 Minimum price 60p	-31	-0.0	-0.7	-0.8	-0.2	-34	-0.5	-0.7	-1.6	-4.5	-0.0	-0.0	-0.1	-0.1	-0.0	-13.2	+0.0
9 Minimum price 65p	-39	-0.1	-0.9	-1.1	-0.3	-44	-0.6	-1.0	-2.1	-5.7	-0.0	-0.1	-0.2	-0.3	-0.0	-17.7	+0.0
10 Minimum price 70p	-49	-0.1	-1.1	-1.4	-0.3	-53	-0.7	-1.2	-2.6	-7.0	-0.1	-0.1	-0.2	-0.4	-0.0	-22.3	+0.0
11 Total off-trade discount ban	-8	-0.0	-0.2	-0.2	-0.1	-10	-0.1	-0.2	-0.4	-1.2	-0.0	-0.1	-0.1	-0.3	-0.0	-5.7	+0.0
12 Minimum price 25p + total off-t discount ban	-8	-0.0	-0.2	-0.2	-0.1	-9	-0.1	-0.2	-0.4	-1.2	-0.0	-0.1	-0.1	-0.3	-0.0	-5.7	+0.0
13 Minimum price 30p + total off-t discount ban	-8	-0.0	-0.2	-0.2	-0.1	-10	-0.1	-0.2	-0.4	-1.3	-0.0	-0.1	-0.1	-0.2	-0.0	-5.8	+0.0
14 Minimum price 35p + total off-t discount ban	-9	-0.0	-0.2	-0.3	-0.1	-11	-0.1	-0.2	-0.5	-1.5	-0.0	-0.1	-0.1	-0.2	-0.0	-6.1	+0.0
15 Minimum price 40p + total off-t discount ban	-12	-0.0	-0.3	-0.3	-0.1	-14	-0.2	-0.3	-0.6	-1.8	-0.0	-0.0	-0.1	-0.1	-0.0	-6.7	+0.0
16 Minimum price 45p + total off-t discount ban	-16	-0.0	-0.4	-0.5	-0.1	-18	-0.2	-0.4	-0.8	-2.4	-0.0	-0.0	-0.1	-0.1	-0.0	-8.1	+0.0
17 Minimum price 50p + total off-t discount ban	-21	-0.0	-0.5	-0.6	-0.1	-24	-0.3	-0.5	-1.1	-3.1	-0.0	-0.0	-0.1	-0.1	-0.0	-10.1	+0.0
18 Minimum price 55p + total off-t discount ban	-27	-0.0	-0.6	-0.8	-0.2	-30	-0.4	-0.7	-1.4	-4.0	-0.0	-0.0	-0.1	-0.2	-0.0	-13.0	+0.0
19 Minimum price 60p + total off-t discount ban	-35	-0.1	-0.8	-1.0	-0.2	-39	-0.5	-0.8	-1.8	-5.1	-0.0	-0.1	-0.2	-0.3	-0.0	-16.4	+0.0
20 Minimum price 65p + total off-t discount ban	-43	-0.1	-1.0	-1.2	-0.3	-47	-0.6	-1.0	-2.3	-6.2	-0.1	-0.1	-0.2	-0.4	-0.0	-20.4	+0.0
21 Minimum price 70p + total off-t discount ban	-51	-0.1	-1.2	-1.4	-0.4	-56	-0.8	-1.3	-2.7	-7.4	-0.1	-0.2	-0.3	-0.6	-0.0	-24.7	+0.0

Table A12.6: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – harm analysis – moderate drinkers

SUMMARY - HAZARDOUS	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Policy Scenario	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)
1 Minimum price 25p	+1	+0.0	+0.0	+0.0	+0.0	+1	-0.0	+0.0	+0.0	+0.1	+0.0	+0.0	+0.0	+0.0	+0.0	+0.1	+0.0
2 Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-2	-0.0	+0.0	-0.0	-0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.1	+0.0
3 Minimum price 35p	-3	-0.0	-0.0	-0.1	-0.0	-15	-0.1	-0.0	-0.2	-0.4	-0.0	-0.0	-0.0	-0.0	-0.0	-0.5	+0.0
4 Minimum price 40p	-9	-0.0	-0.1	-0.2	-0.0	-46	-0.3	-0.2	-0.7	-1.2	-0.0	-0.1	-0.1	-0.2	-0.0	-2.2	+0.0
5 Minimum price 45p	-19	-0.1	-0.3	-0.4	-0.1	-96	-0.6	-0.3	-1.4	-2.6	-0.1	-0.2	-0.2	-0.4	-0.0	-5.6	+0.0
6 Minimum price 50p	-32	-0.1	-0.4	-0.7	-0.2	-158	-1.0	-0.5	-2.3	-4.3	-0.1	-0.3	-0.4	-0.8	-0.0	-10.0	+0.0
7 Minimum price 55p	-46	-0.1	-0.7	-1.0	-0.2	-229	-1.4	-0.8	-3.5	-6.3	-0.2	-0.4	-0.6	-1.2	-0.0	-15.4	+0.0
8 Minimum price 60p	-61	-0.2	-0.9	-1.3	-0.3	-304	-1.9	-1.1	-4.6	-8.4	-0.2	-0.6	-0.9	-1.7	-0.0	-20.9	+0.0
9 Minimum price 65p	-76	-0.2	-1.1	-1.7	-0.4	-377	-2.4	-1.3	-5.8	-10.4	-0.3	-0.7	-1.1	-2.1	-0.0	-26.6	+0.0
10 Minimum price 70p	-90	-0.3	-1.3	-2.0	-0.5	-446	-2.8	-1.6	-7.0	-12.4	-0.3	-0.9	-1.4	-2.6	-0.0	-32.9	+0.0
11 Total off-trade discount ban	-17	-0.0	-0.2	-0.4	-0.1	-87	-0.5	-0.3	-1.3	-2.3	-0.1	-0.2	-0.3	-0.6	-0.0	-7.0	+0.0
12 Minimum price 25p + total off-t discount ban	-17	-0.0	-0.2	-0.4	-0.1	-87	-0.5	-0.3	-1.3	-2.4	-0.1	-0.2	-0.3	-0.6	-0.0	-7.0	+0.0
13 Minimum price 30p + total off-t discount ban	-17	-0.1	-0.3	-0.4	-0.1	-90	-0.5	-0.3	-1.3	-2.4	-0.1	-0.2	-0.3	-0.6	-0.0	-7.0	+0.0
14 Minimum price 35p + total off-t discount ban	-19	-0.1	-0.3	-0.4	-0.1	-100	-0.6	-0.3	-1.5	-2.7	-0.1	-0.2	-0.3	-0.7	-0.0	-7.5	+0.0
15 Minimum price 40p + total off-t discount ban	-24	-0.1	-0.3	-0.5	-0.1	-124	-0.7	-0.4	-1.8	-3.3	-0.1	-0.3	-0.4	-0.8	-0.0	-8.9	+0.0
16 Minimum price 45p + total off-t discount ban	-32	-0.1	-0.5	-0.7	-0.2	-162	-1.0	-0.5	-2.4	-4.4	-0.1	-0.3	-0.5	-0.9	-0.0	-11.5	+0.0
17 Minimum price 50p + total off-t discount ban	-42	-0.1	-0.6	-0.9	-0.2	-211	-1.3	-0.7	-3.2	-5.8	-0.2	-0.4	-0.6	-1.2	-0.0	-15.1	+0.0
18 Minimum price 55p + total off-t discount ban	-55	-0.2	-0.8	-1.2	-0.3	-274	-1.7	-0.9	-4.1	-7.5	-0.2	-0.5	-0.8	-1.6	-0.0	-19.6	+0.0
19 Minimum price 60p + total off-t discount ban	-68	-0.2	-1.0	-1.5	-0.4	-338	-2.1	-1.2	-5.2	-9.4	-0.3	-0.7	-1.0	-1.9	-0.0	-24.4	+0.0
20 Minimum price 65p + total off-t discount ban	-82	-0.2	-1.2	-1.8	-0.4	-404	-2.5	-1.4	-6.3	-11.2	-0.3	-0.8	-1.2	-2.3	-0.0	-29.7	+0.0
21 Minimum price 70p + total off-t discount ban	-95	-0.3	-1.4	-2.1	-0.5	-469	-3.0	-1.7	-7.4	-13.1	-0.4	-1.0	-1.5	-2.8	-0.0	-35.6	+0.0

Table A12.7: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – harm analysis – hazardous drinkers

SUMMARY - HARMFUL	Health outcomes p.a. (first year)					Health outcomes p.a. (full effect)					Crime outcomes p.a.					Workplace harm p.a.	
	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	QALYs saved ('000s)	Deaths	Chronic illness ('000s)	Acute illness ('000s)	Hospital admissions ('000s)	Cum. discounted QALYs Years 1-10 ('000s)	Violent crime ('000s)	Criminal damage ('000s)	Other crime ('000s)	Total crimes ('000s)	QALYs of crime victims ('000s)	Days Absence ('000s days)	Unemployed ('000s people)
1 Minimum price 25p	-1	-0.0	-0.0	-0.0	-0.0	-4	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.1	-0.0	-0.6	-0.1
2 Minimum price 30p	-2	-0.0	-0.0	-0.0	-0.0	-11	-0.1	-0.0	-0.2	-0.3	-0.0	-0.1	-0.1	-0.2	-0.0	-1.5	-0.2
3 Minimum price 35p	-5	-0.0	-0.1	-0.1	-0.0	-28	-0.2	-0.1	-0.6	-0.8	-0.1	-0.2	-0.2	-0.5	-0.0	-3.1	-0.4
4 Minimum price 40p	-10	-0.0	-0.1	-0.3	-0.1	-58	-0.5	-0.1	-1.1	-1.5	-0.1	-0.3	-0.4	-0.9	-0.0	-5.8	-0.7
5 Minimum price 45p	-16	-0.1	-0.2	-0.4	-0.1	-99	-0.8	-0.2	-1.8	-2.6	-0.2	-0.5	-0.7	-1.4	-0.0	-9.4	-1.1
6 Minimum price 50p	-24	-0.1	-0.3	-0.6	-0.1	-145	-1.1	-0.3	-2.7	-3.8	-0.3	-0.8	-1.0	-2.0	-0.0	-13.5	-1.5
7 Minimum price 55p	-33	-0.2	-0.4	-0.8	-0.2	-195	-1.5	-0.4	-3.6	-5.0	-0.4	-1.0	-1.3	-2.6	-0.0	-18.0	-2.0
8 Minimum price 60p	-40	-0.2	-0.5	-1.0	-0.2	-242	-1.9	-0.5	-4.4	-6.2	-0.5	-1.2	-1.6	-3.3	-0.0	-22.1	-2.4
9 Minimum price 65p	-48	-0.2	-0.7	-1.2	-0.3	-290	-2.2	-0.6	-5.2	-7.5	-0.6	-1.5	-1.9	-4.0	-0.0	-26.5	-2.8
10 Minimum price 70p	-57	-0.3	-0.8	-1.4	-0.3	-340	-2.6	-0.8	-6.1	-8.7	-0.6	-1.7	-2.2	-4.6	-0.0	-30.9	-3.2
11 Total off-trade discount ban	-9	-0.0	-0.1	-0.2	-0.0	-52	-0.4	-0.1	-1.0	-1.3	-0.1	-0.3	-0.3	-0.7	-0.0	-4.7	-0.6
12 Minimum price 25p + total off-t discount ban	-9	-0.0	-0.1	-0.2	-0.1	-56	-0.5	-0.1	-1.1	-1.4	-0.1	-0.3	-0.4	-0.8	-0.0	-5.2	-0.6
13 Minimum price 30p + total off-t discount ban	-10	-0.0	-0.1	-0.3	-0.1	-61	-0.5	-0.1	-1.2	-1.6	-0.1	-0.3	-0.4	-0.8	-0.0	-5.9	-0.7
14 Minimum price 35p + total off-t discount ban	-12	-0.1	-0.2	-0.3	-0.1	-76	-0.6	-0.2	-1.4	-2.0	-0.1	-0.4	-0.5	-1.1	-0.0	-7.3	-0.9
15 Minimum price 40p + total off-t discount ban	-17	-0.1	-0.2	-0.4	-0.1	-101	-0.8	-0.2	-1.9	-2.6	-0.2	-0.5	-0.7	-1.4	-0.0	-9.6	-1.1
16 Minimum price 45p + total off-t discount ban	-22	-0.1	-0.3	-0.6	-0.1	-135	-1.1	-0.3	-2.5	-3.5	-0.3	-0.7	-0.9	-1.9	-0.0	-12.6	-1.5
17 Minimum price 50p + total off-t discount ban	-29	-0.1	-0.4	-0.7	-0.2	-174	-1.4	-0.4	-3.2	-4.5	-0.3	-0.9	-1.2	-2.4	-0.0	-16.2	-1.9
18 Minimum price 55p + total off-t discount ban	-37	-0.2	-0.5	-0.9	-0.2	-219	-1.7	-0.5	-4.0	-5.7	-0.4	-1.1	-1.5	-3.0	-0.0	-20.2	-2.2
19 Minimum price 60p + total off-t discount ban	-43	-0.2	-0.6	-1.1	-0.2	-261	-2.0	-0.6	-4.7	-6.7	-0.5	-1.3	-1.7	-3.6	-0.0	-23.9	-2.6
20 Minimum price 65p + total off-t discount ban	-51	-0.2	-0.7	-1.3	-0.3	-306	-2.4	-0.7	-5.5	-7.9	-0.6	-1.6	-2.0	-4.2	-0.0	-28.0	-3.0
21 Minimum price 70p + total off-t discount ban	-59	-0.3	-0.8	-1.5	-0.3	-354	-2.7	-0.8	-6.3	-9.1	-0.7	-1.8	-2.3	-4.8	-0.0	-32.3	-3.3

Table A12.8: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – harm analysis – harmful drinkers

SUMMARY - TOTAL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs	Healthcare costs	Crime costs	Absence costs	Unemploy ment costs	Total direct costs	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs
1 Minimum price 25p	+0.3	-0	-1	-1.6	-1.4	+8	-0	-6	+2	-	-	-14	-12	+13	-	+1
2 Minimum price 30p	+0.0	-1	-1	-3.7	-4.0	+1	-1	-3.9	-2	-1	-1	-31	-35	-7	-1	-43
3 Minimum price 35p	-0.9	-4	-4	-8.2	-9.8	-2.4	-2	-12.3	-15	-3	-3	-68	-89	-67	-2	-158
4 Minimum price 40p	-2.4	-8	-8	-15.1	-19.1	-6.2	-5	-25.8	-38	-7	-7	-126	-177	-170	-5	-352
5 Minimum price 45p	-4.8	-1.6	-1.6	-24.3	-32.2	-12.3	-1.0	-45.4	-73	-13	-13	-202	-301	-328	-9	-638
6 Minimum price 50p	-7.6	-2.5	-2.5	-34.3	-46.9	-19.6	-1.6	-68.1	-116	-21	-21	-285	-443	-517	-15	-975
7 Minimum price 55p	-11.0	-3.6	-3.7	-44.5	-62.8	-28.3	-2.3	-93.4	-166	-30	-31	-370	-597	-736	-21	-1,354
8 Minimum price 60p	-14.5	-4.8	-4.8	-53.2	-77.2	-37.4	-3.1	-117.7	-217	-40	-40	-442	-739	-960	-28	-1,727
9 Minimum price 65p	-18.1	-6.0	-6.1	-61.7	-91.8	-46.8	-3.9	-142.5	-270	-50	-51	-513	-883	-1,187	-36	-2,107
10 Minimum price 70p	-21.7	-7.2	-7.4	-69.7	-106.0	-56.3	-4.7	-167.0	-323	-60	-62	-580	-1,024	-1,416	-43	-2,483
11 Total off-trade discount ban	-3.7	-1.5	-1.6	-13.0	-19.8	-9.9	-1.1	-30.8	-55	-13	-13	-108	-189	-248	-10	-446
12 Minimum price 25p + total off-t discount ban	-3.8	-1.6	-1.6	-14.3	-21.3	-10.1	-1.1	-32.5	-56	-13	-13	-119	-202	-253	-10	-465
13 Minimum price 30p + total off-t discount ban	-4.0	-1.6	-1.7	-16.0	-23.3	-10.5	-1.1	-35.0	-59	-13	-14	-133	-220	-267	-10	-497
14 Minimum price 35p + total off-t discount ban	-4.6	-1.8	-1.9	-19.7	-27.9	-12.1	-1.2	-41.2	-69	-15	-16	-163	-262	-308	-11	-582
15 Minimum price 40p + total off-t discount ban	-5.8	-2.2	-2.2	-25.4	-35.6	-15.2	-1.4	-52.3	-87	-18	-19	-211	-335	-392	-13	-740
16 Minimum price 45p + total off-t discount ban	-7.7	-2.8	-2.8	-32.8	-46.0	-20.1	-1.8	-67.9	-116	-23	-23	-272	-435	-517	-17	-968
17 Minimum price 50p + total off-t discount ban	-10.1	-3.5	-3.6	-41.1	-58.3	-26.2	-2.3	-86.8	-152	-29	-30	-342	-553	-674	-21	-1,248
18 Minimum price 55p + total off-t discount ban	-13.0	-4.4	-4.6	-49.7	-71.7	-33.7	-2.9	-108.3	-195	-37	-38	-413	-683	-864	-27	-1,573
19 Minimum price 60p + total off-t discount ban	-16.1	-5.5	-5.6	-57.3	-84.5	-41.9	-3.6	-129.9	-241	-45	-47	-477	-809	-1,063	-33	-1,905
20 Minimum price 65p + total off-t discount ban	-19.4	-6.6	-6.8	-65.1	-97.8	-50.5	-4.3	-152.6	-289	-55	-56	-541	-941	-1,273	-40	-2,254
21 Minimum price 70p + total off-t discount ban	-22.8	-7.7	-8.0	-72.5	-111.1	-59.5	-5.1	-175.7	-339	-64	-67	-603	-1,073	-1,488	-47	-2,608

Table A12.9: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – financial value – overall population

SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
Policy Scenario																
1 Minimum price 25p	+0.3	+0	-0	+0	+3	+8	+0	+1.1	+3	+	-	+	+3	+15	+	+18
2 Minimum price 30p	+0.2	+0	-0	+0	+2	+6	+0	+8	+2	+	-	+	+2	+9	+	+11
3 Minimum price 35p	-0.1	+1	-0	+0	-1	-3	+1	-3	-2	+1	-	+	-1	-9	+1	-10
4 Minimum price 40p	-0.5	+1	-1	+0	-5	-1.3	+1	-1.6	-6	+1	-1	+	-6	-32	+1	-37
5 Minimum price 45p	-1.2	+1	-3	+0	-1.3	-2.9	+1	-4.2	-14	+1	-2	+	-15	-69	+1	-83
6 Minimum price 50p	-2.0	+1	-5	+0	-2.4	-5.0	+1	-7.3	-23	+1	-4	+	-27	-113	+1	-140
7 Minimum price 55p	-3.0	+0	-8	+0	-3.8	-7.5	-0	-11.3	-35	+	-7	+	-42	-167	-	-209
8 Minimum price 60p	-4.1	-1	-1.2	+0	-5.4	-10.3	-1	-15.8	-48	-1	-10	+	-58	-225	-1	-284
9 Minimum price 65p	-5.3	-2	-1.6	+0	-7.2	-13.4	-2	-20.8	-61	-2	-13	+	-77	-287	-2	-366
10 Minimum price 70p	-6.6	-4	-2.0	+0	-9.0	-16.7	-3	-26.0	-76	-3	-17	+	-96	-351	-3	-450
11 Total off-trade discount ban	-1.2	-2	-5	+0	-1.9	-3.0	-2	-5.2	-13	-2	-4	+	-19	-62	-2	-83
12 Minimum price 25p + total off-t discount ban	-1.1	-2	-5	+0	-1.9	-3.0	-2	-5.1	-13	-2	-4	+	-19	-62	-2	-83
13 Minimum price 30p + total off-t discount ban	-1.2	-2	-5	+0	-1.9	-3.1	-2	-5.2	-13	-2	-5	+	-19	-64	-2	-85
14 Minimum price 35p + total off-t discount ban	-1.3	-2	-6	+0	-2.1	-3.5	-1	-5.7	-15	-1	-5	+	-21	-73	-1	-95
15 Minimum price 40p + total off-t discount ban	-1.7	-1	-6	+0	-2.4	-4.3	-1	-6.8	-19	-1	-5	+	-25	-91	-1	-117
16 Minimum price 45p + total off-t discount ban	-2.2	-1	-7	+0	-3.0	-5.5	-1	-8.7	-25	-1	-6	+	-32	-120	-1	-153
17 Minimum price 50p + total off-t discount ban	-2.8	-1	-9	+0	-3.9	-7.2	-1	-11.2	-33	-1	-8	+	-41	-156	-1	-199
18 Minimum price 55p + total off-t discount ban	-3.7	-2	-1.2	+0	-5.0	-9.3	-2	-14.5	-42	-2	-10	+	-54	-202	-1	-257
19 Minimum price 60p + total off-t discount ban	-4.7	-3	-1.5	+0	-6.4	-11.9	-2	-18.5	-54	-2	-12	+	-68	-254	-2	-324
20 Minimum price 65p + total off-t discount ban	-5.8	-4	-1.9	+0	-8.0	-14.7	-3	-23.0	-67	-3	-15	+	-85	-311	-3	-399
21 Minimum price 70p + total off-t discount ban	-7.0	-5	-2.3	+0	-9.7	-17.7	-4	-27.9	-80	-4	-19	+	-103	-371	-4	-478

Table A12.10: Summary tables for sensitivity analysis - Nielsen-based preference for off-trade – financial value – moderate drinkers

SUMMARY - HAZARDOUS	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
Policy Scenario																
1 Minimum price 25p	+0.1	+0	+0	+0	+1	+2	+0	+3	+1	+	+	+	+1	+3	+	+4
2 Minimum price 30p	+0.0	+0	+0	+0	+0	+1	+0	+1	-	+	+	+	-	-1	+	-1
3 Minimum price 35p	-0.2	-0	-0	+0	-3	-6	-0	-9	-4	-	-	+	-5	-19	-	-24
4 Minimum price 40p	-0.8	-1	-2	+0	-1.2	-2.1	-1	-3.3	-14	-1	-2	+	-16	-61	-1	-79
5 Minimum price 45p	-1.8	-4	-5	+0	-2.6	-4.6	-2	-7.4	-29	-3	-4	+	-36	-129	-2	-167
6 Minimum price 50p	-3.0	-7	-9	+0	-4.5	-7.7	-4	-12.7	-48	-6	-7	+	-61	-214	-4	-279
7 Minimum price 55p	-4.5	-1.0	-1.3	+0	-6.8	-11.5	-7	-19.0	-71	-9	-11	+	-91	-314	-6	-411
8 Minimum price 60p	-6.0	-1.4	-1.8	+0	-9.2	-15.5	-9	-25.6	-95	-12	-15	+	-122	-419	-8	-549
9 Minimum price 65p	-7.6	-1.8	-2.3	+0	-11.6	-19.5	-1.1	-32.3	-119	-15	-19	+	-153	-522	-11	-686
10 Minimum price 70p	-9.0	-2.2	-2.8	+0	-14.0	-23.5	-1.4	-38.9	-143	-18	-23	+	-185	-622	-13	-820
11 Total off-trade discount ban	-1.7	-6	-6	+0	-2.8	-4.4	-4	-7.6	-26	-5	-5	+	-36	-117	-4	-157
12 Minimum price 25p + total off-t discount ban	-1.7	-6	-6	+0	-2.8	-4.4	-4	-7.6	-26	-5	-5	+	-36	-118	-4	-157
13 Minimum price 30p + total off-t discount ban	-1.7	-6	-6	+0	-2.9	-4.5	-4	-7.8	-27	-5	-5	+	-37	-121	-4	-162
14 Minimum price 35p + total off-t discount ban	-1.9	-6	-7	+0	-3.1	-4.9	-4	-8.5	-30	-5	-6	+	-40	-135	-4	-179
15 Minimum price 40p + total off-t discount ban	-2.4	-6	-8	+0	-3.8	-6.1	-4	-10.3	-37	-5	-7	+	-49	-167	-4	-220
16 Minimum price 45p + total off-t discount ban	-3.1	-8	-1.0	+0	-4.9	-8.1	-5	-13.5	-49	-7	-8	+	-64	-220	-5	-289
17 Minimum price 50p + total off-t discount ban	-4.1	-1.0	-1.3	+0	-6.5	-10.7	-7	-17.8	-65	-9	-11	+	-85	-289	-6	-380
18 Minimum price 55p + total off-t discount ban	-5.4	-1.3	-1.7	+0	-8.4	-13.9	-9	-23.1	-85	-11	-14	+	-110	-375	-8	-493
19 Minimum price 60p + total off-t discount ban	-6.8	-1.6	-2.1	+0	-10.5	-17.5	-1.1	-29.1	-107	-14	-17	+	-138	-469	-10	-616
20 Minimum price 65p + total off-t discount ban	-8.2	-2.0	-2.5	+0	-12.7	-21.2	-1.3	-35.1	-129	-16	-21	+	-166	-562	-12	-741
21 Minimum price 70p + total off-t discount ban	-9.6	-2.4	-3.0	+0	-14.9	-24.8	-1.5	-41.3	-151	-20	-25	+	-196	-656	-14	-866

Table A12.11: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – financial value – hazardous drinkers

SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)									Cumulative discounted value of harm reduction over 10 years (£m)						
	Healthcare costs Year 1	Crime costs Year 1	Absence costs Year 1	Unemployment costs Year 1	Total direct costs Year 1	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1	Healthcare costs Years 1-10	Crime costs Years 1-10	Absence costs Years 1-10	Unemployment costs Years 1-10	Total direct costs Years 1-10	Health QALY value	Crime QALY value	Total value of harm reduction incl. QALYs Year 1-10
Policy Scenario																
1 Minimum price 25p	-0.1	-0	-1	-1.6	-1.8	-2	-0	-2.0	-1	-	-	-14	-16	-5	-	-21
2 Minimum price 30p	-0.2	-2	-1	-3.7	-4.2	-6	-1	-4.9	-4	-1	-1	-31	-37	-15	-1	-52
3 Minimum price 35p	-0.5	-4	-3	-8.2	-9.3	-1.4	-2	-11.0	-9	-3	-2	-68	-82	-38	-2	-123
4 Minimum price 40p	-1.0	-8	-5	-15.1	-17.4	-2.8	-5	-20.6	-18	-6	-4	-126	-154	-77	-4	-235
5 Minimum price 45p	-1.7	-1.2	-8	-24.3	-28.0	-4.6	-8	-33.4	-30	-10	-7	-202	-249	-128	-7	-384
6 Minimum price 50p	-2.5	-1.7	-1.1	-34.3	-39.6	-6.7	-1.1	-47.4	-44	-14	-9	-285	-353	-188	-10	-550
7 Minimum price 55p	-3.4	-2.3	-1.5	-44.5	-51.6	-9.0	-1.4	-62.1	-59	-19	-12	-370	-460	-252	-13	-726
8 Minimum price 60p	-4.2	-2.8	-1.8	-53.2	-62.0	-11.1	-1.8	-75.0	-73	-24	-15	-442	-554	-312	-17	-882
9 Minimum price 65p	-5.0	-3.4	-2.2	-61.7	-72.3	-13.3	-2.2	-87.8	-87	-28	-18	-513	-647	-373	-20	-1,041
10 Minimum price 70p	-5.8	-3.9	-2.6	-69.7	-82.0	-15.5	-2.5	-100.1	-102	-33	-21	-580	-736	-436	-23	-1,195
11 Total off-trade discount ban	-0.9	-6	-4	-13.0	-14.9	-2.3	-4	-17.6	-16	-5	-3	-108	-132	-67	-4	-203
12 Minimum price 25p + total off-t discount ban	-1.0	-6	-4	-14.3	-16.4	-2.5	-4	-19.4	-17	-5	-4	-119	-145	-72	-4	-222
13 Minimum price 30p + total off-t discount ban	-1.1	-7	-5	-16.0	-18.3	-2.8	-5	-21.6	-19	-6	-4	-133	-162	-80	-4	-247
14 Minimum price 35p + total off-t discount ban	-1.3	-9	-6	-19.7	-22.5	-3.5	-6	-26.6	-23	-7	-5	-163	-199	-99	-5	-304
15 Minimum price 40p + total off-t discount ban	-1.7	-1.2	-8	-25.4	-29.2	-4.7	-8	-34.6	-31	-10	-7	-211	-259	-131	-7	-397
16 Minimum price 45p + total off-t discount ban	-2.3	-1.6	-1.1	-32.8	-37.7	-6.2	-1.0	-45.0	-41	-13	-9	-272	-335	-174	-10	-519
17 Minimum price 50p + total off-t discount ban	-3.0	-2.0	-1.4	-41.1	-47.5	-8.0	-1.3	-56.8	-53	-17	-11	-342	-423	-225	-12	-660
18 Minimum price 55p + total off-t discount ban	-3.8	-2.5	-1.7	-49.7	-57.7	-10.1	-1.6	-69.4	-66	-21	-14	-413	-514	-283	-15	-812
19 Minimum price 60p + total off-t discount ban	-4.5	-3.1	-2.0	-57.3	-66.9	-12.0	-2.0	-80.8	-78	-25	-17	-477	-597	-336	-18	-951
20 Minimum price 65p + total off-t discount ban	-5.3	-3.6	-2.3	-65.1	-76.3	-14.0	-2.4	-92.7	-92	-30	-19	-541	-683	-393	-22	-1,098
21 Minimum price 70p + total off-t discount ban	-6.1	-4.1	-2.7	-72.5	-85.4	-16.2	-2.7	-104.2	-106	-34	-22	-603	-766	-453	-25	-1,244

Table A12.12: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – financial value – harmful drinkers