



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

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AUTHORSHIP

Modelling team: Dr Yang Meng, Mr Daniel Hill-McManus, Professor Alan Brennan

Principal investigator: Professor Petra Meier

CONFLICTS OF INTEREST

The authors have no conflicts of interest.

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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 Living Costs 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 original modelling work were published in September 2009 (Purshouse et al, 2009b). A first update using more up to date evidence was published in April 2010 (Meng et al, 2010). Since this time, a series of more recent datasets have become available. These include:

- New adult consumption data from the Scottish Health Survey (SHeS) is available for 2010 (the data in the previous model relates to 2008).
- New purchase data from the Living Costs and Food Survey (LCF), previously known as the Expenditure and Food Survey (EFS) is available for 2006 to 2009 (the data in the previous model relates to 2001/2 to 2005/6).
- The Scottish Government has also procured market research data on the 2010 price distribution of off-trade alcohol (in terms of ethanol content) in Scotland from The Nielsen Company.
- New mortality data is available for 2010.
- New person specific hospitalisation data is available for 2009/10.
- Police recorded crime statistics and the Scottish Crime and Justice Survey (SCJS) data is available for 2009/10.
- The Labour Force Survey data is available for 2010.

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 original published report has not been reproduced in full.

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 and a ban on price-based promotions in the off-licensed trade simultaneously in Scotland?

SUMMARY OF MODEL FINDINGS

Overview

- M1. This updated report, which incorporates data on alcohol consumption from the 2010 SHeS, purchase data from the LCF 2001/2 to 2009, market research data on the 2010 price distribution of off-trade alcohol, and updated mortality (2010), person specific hospitalisation (2009/10), crime (2009/10) and workplace (2010) statistics, shows results which are broadly similar to those presented in the previous April 2010 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	-0.4%	-3.4%
35p	-0.8%	-3.7%
40p	-1.9%	-4.6%
45p	-3.5%	-6.0%
50p	-5.7%	-7.8%
55p	-8.3%	-10.0%
60p	-11.1%	-12.5%
65p	-14.0%	-15.1%
70p	-16.9%	-17.9%

- M3. A total ban on off-trade discounting is estimated to change overall consumption by -3.0%. 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. 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. Scotland implemented a quantity-based discount ban (on offers such as

'buy three for the price of two') in October 2011. The results reported here may therefore 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

- M5. Low minimum price thresholds (e.g. 25p per unit) have little impact in reducing harmful outcomes.
- M6. As the minimum price threshold increases, alcohol-related hospital admissions and deaths are estimated to decrease. For example, a 30p threshold plus discount ban is estimated to reduce annual hospital admissions by 3,700 at full effect, compared to 5,100 and 8,600 for 40p and 50p minimum price thresholds, respectively. Regarding mortality, a 30p threshold plus discount ban is estimated to reduce annual deaths by 183 at full effect, compared to 249 and 427 for 40p and 50p minimum price thresholds, respectively. The majority of the health harm reductions are for chronic diseases. Most of the prevented deaths occur in harmful drinkers¹ as defined in the model.
- M7. As the minimum price threshold increases, alcohol-related crimes are estimated to decrease: for example, -2,900 offences per annum for a 40p threshold (with discount ban) compared to -4,700 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 be reduced proportionately less than health-related harms: e.g. for a 40p minimum price with discount ban, hospital admissions at full effect are estimated to decrease by 7.8% whilst crimes decrease by 1.7%; and for

¹ In the Sheffield Alcohol Policy Model, moderate drinkers are defined as men/women who consume no more than 21/14 units per week, hazardous drinkers are defined as men/women consuming between 21/14 and 50/35 units per week, harmful drinkers are defined as men/women consuming more than 50/35 units per week.

a 50p minimum price with discount ban, hospital admissions and crime at full effect are estimated to decrease by 13.3% and 2.9% respectively. 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 have a greater impact in the off-trade sector.

- M9. As the minimum price threshold increases, absenteeism from work is estimated to decrease: a minimum price of 40p with discount ban is estimated to reduce days of absence from work by approximately 28,800 per annum, whereas for 50p the reduction is estimated to be 46,800.
- M10. As the minimum price threshold increases, unemployment due to alcohol problems is estimated to decrease (in the model unemployment is a risk factor only for harmful drinkers). For a 40p threshold (with discount ban), 900 avoided cases of unemployment are estimated per annum; for 50p the figure is 1,500. 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 3.7%; for a 50p minimum price with discount ban policy, overall spending increases by 5.2%.
- 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 £83m per annum; and for a 50p minimum price

with combined discount ban, total retailer revenue is estimated to increase by £125m 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 £7m; and for a 50p minimum price plus discount ban, total receipts are estimated to reduce by £16m.

Valuation of harm reductions

- M14. As the minimum price threshold increases, the financial value of harm reductions increases²: the overall cumulative discounted financial value of harm reduction over ten years is estimated at £737m for a 40p minimum price plus discount ban policy; this valuation nearly doubles for a 50p threshold (£1.2bn). The valuation continues to increase steeply as the threshold is increased.
- 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 £1227m harm reduction in the 50p 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 £20m over 10 years for a 40p minimum price plus discount ban compared to £32m for a 50p threshold. Similarly the value of quality adjusted life years lost by victims of crime changes from around £17m to £27m (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

² 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.

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 £8, £45 and £111 respectively (corresponding to an average additional spend per week of £0.15 for moderate drinkers, £0.86 for hazardous drinkers and £2.13 for harmful drinkers). For a 50p minimum price combined with a discount ban, the figures for moderate, hazardous and harmful are estimated at £11, £65 and £148 respectively which equates to an additional spend per week of £0.22, £1.25 and £2.83.

- 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. 51% of the reduction in hospital admissions estimated for a 50p minimum price plus discount ban policy) even though these represent a small minority (5% and 3% for male and female respectively) of all drinkers.
- M19. Reductions in crime are spread more evenly between the three drinker groups than for health-related outcomes. For example, for a 40p minimum price plus off-trade discount ban, the reduction in crime volumes per annum is estimated to comprise 800 from moderate drinkers, 800 from hazardous drinkers and 1,100 from harmful drinkers. The equivalent figures for a 50p minimum price plus discount ban are 1,300, 1,300 and 1,900 fewer crimes per annum.
- M20. The absolute contribution of the three drinker groups to reductions in days of absence is spread evenly across groups, for example, a 40p minimum price plus off-trade discount ban has an estimated reduction in absenteeism of 11,700 days p.a. for moderate drinkers, 8,300 for hazardous drinkers and 8,600 for harmful drinkers. The equivalent figures for a 50p minimum price with discount ban are 18,300, 13,700 and 14,500 fewer days of absence per annum. 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 £737m and £1227m estimated value of harm reduction for a 40p and 50p minimum price in combination with a discount ban, just over half (£402m and £656m respectively) is from harmful drinkers.

Comparison of previous and updated modelling results

- M22. Compared to the SHeS 2008, the SHeS 2010 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 over the age of 65 for male and over the age of 75 for female increasing. The consumption of all beverage types (beer/cider, wine, spirit and RTD) decreased. The proportion of the population who are harmful and hazardous drinkers decreased as did the mean consumption for all drinker types (moderate/hazardous/harmful) and gender groups, except for male harmful drinkers.
- M23. The market research data available from Nielsen shows price distributions for off-trade alcohol which are marginally different from those estimated in our April 2010 report. Average prices paid are slightly higher, and the proportion of alcohol purchased which is bought inexpensively, for example at a price below 45p per unit, is slightly lower than in the April 2010 report. For example, the proportions of alcohol sold below 45p for off-trade beer/cider, wine and spirit, decreased from 72%, 53% and 76% to 69%, 48% and 72% respectively.
- 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. 4.6% instead of 5.1% consumption reduction for a 40p minimum price combined with an off-trade discount ban; and 7.8% instead of 8.7% for a 50p 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” was published in September 2009 (Purshouse et al, 2009b). This model will be referred to as the “original model” or the “original report” hereafter in this report. A first update using more up to date evidence was performed and the modelling work “Model-based appraisal of alcohol minimum pricing and off-licensed trade discount bans in Scotland using the Sheffield Alcohol Policy Mode (v 2): an update based on newly available data” was published in April 2010 (Meng et al, 2010). This model will be referred to as the “previous model” or “previous report” hereafter in this report.

Since this time, new adult consumption data from the Scottish Health Survey (SHeS) has become available for 2010 (the data in the previous model relates to 2008). New purchase data from the Living Costs and Food Survey (LCF), previously known as the Expenditure and Food Survey (EFS), has become available for 2006 to 2009 (the data in the previous model relates to 2001/2 to 2005/6). The Scottish Government has also procured market research data on the 2010 price distribution of off-trade alcohol (in terms of ethanol content) in Scotland from The Nielsen Company. Regarding new data on alcohol-related harms, new mortality data is available for 2010 and new person specific hospitalisation data is available for 2009/10. Police recorded crime statistics and the Scottish Crime and Justice Survey (SCJS) data are now available for 2009/10 and the Labour Force Survey data are now available for 2010.

Since the model was last updated in 2010 the Scottish Parliament has passed the Alcohol etc. (Scotland) Act 2010. The Act which came into force on 1 October 2011, introduced an off-trade quantity discount ban (such as “3 for 2” and “3 bottles for £10”) but did not explicitly ban straight discounts from list price. In this respect, the modelling results presented in this report go beyond what was implemented in Scotland. The potential implications of this are considered in the limitations section of the report.

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 and a ban on price-based promotions in the off-licensed trade simultaneously in Scotland?

2 METHODS

This section outlines the changes to the methods from the original and the previous 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) and Meng et al (2010).

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 LCF/EFS 2001/2 to 2005 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 original 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 LCF/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).

In the previous model, sales data in 16 price bands for the off-trade in Scotland was available to the research team (The Nielsen Company, 2009). Therefore, only Scotland-specific data, both the LCF/EFS and Nielsen data, was used for the off-trade sector.

Now, additional LCF/EFS data is available for 2006-2009 and new off-trade sales data is available for 2010 (The Nielsen Company, 2010). In this model update, the same

methodology of the previous model is used for off-trade sector but using the updated LCE/EFS 2001/2 to 2009 and Nielsen 2010 data. For the on-trade sector, Scotland-specific sales data in price bands is not available. However, due to the increase in the LCF/EFS Scotland on-trade sample size (from 6,800 to 11,200), Scotland-specific LCF/EFS data is used in this model update as the basis of the price distributions (England LCF/EFS on-trade data were used in the original and the previous models and the data was adjusted to England on-trade sales data and the differences between the LCF/EFS prices in England and Scotland). In the model, the England on-trade sales data was adjusted based on the differences between the LCF/EFS on-trade prices in England and Scotland and then this revised “Scotland” on-trade sales data is applied to adjust the Scotland-specific LCF/EFS data. Finally, the on-trade price data was brought in line with the Scotland mean price per unit for on-trade beer/cider, wine, spirit and RTD (The Nielsen Company, 2010).

2.1.1 Off-trade price distribution

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

2.1.1.1 Pre-processing

The Nielsen price data is described across a set of 25 product categories (e.g. dark rum, golden rum, etc) and 5 broad categories (e.g. beer) in terms of 16 price ranges (defined in terms of £ per unit). The sales volume (in litres of pure alcohol) is provided. For modelling purposes, the distributions must be aggregated to the four beverages of beer/cider, wine, spirit and RTD. The matching of Nielsen product categories and the modelled categories is summarised in Table 2.2.

Nielsen broad category	Nielsen product category	Model category
Spirit	Vodka	Spirit
	Blended whisky	Spirit
	Gin	Spirit
	Cream liqueur	Spirit
	French grape brandy	Spirit
	White rum	Spirit
	Imported whisky	Spirit
	Liqueur	Spirit
	Malt whisky	Spirit
	Dark rum	Spirit
	Cognac	Spirit
	Golden rum	Spirit
	Beer	Non/low alcohol
Commodity		Beer/cider
Standard		Beer/cider
Premium		Beer/cider
Super strength		Beer/cider
Cider	White/strong	Beer/cider
	Regular	Beer/cider
Wine	Table wine	Wine
	Sparkling wine	Wine
	Champagne	Wine
Other	Fortified wine	Wine
	RTD	RTD
	Perry	Beer/cider

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 where the same alcohol by volume (ABV) estimate is assumed for each product category (the same approach was also 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; Meng et al, 2010) the LCF/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 LCF/EFS cumulative price distribution is linearly interpolated so that it matches the known price points available from Nielsen (15 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 LCF/EFS sample size is small in relation to the overall LCF/EFS (around one tenth of the English sample size), issues arise where, for some subgroups, there are insufficient price observations to adequately describe the price distributions. This remains an issue even when the sample size is almost doubled due to the availability of 2006-2009 LCF/EFS data. As in the previous model, in order to increase the sample size, the original eight age groups are merged into three, which are 16-34 years (originally 16-17, 18-24 and 25-34 years) 35-54 years (originally 35-44 and 45-54 years) and 55+ years (originally 55-64, 65-74 and 75+ years). Note that the merging of age-groups is applied to both off-trade and on-trade price distributions but does not affect subgroup definition for 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 LCF/EFS Scotland data are shown in Figure 2.1. In general, prices paid for off-trade alcohol are higher in the new model as the distributions shift to the right, and the proportion of alcohol purchased which is bought inexpensively, for example at a price below 45p per unit, is lower in the new model. Table 2.3 compares the proportions of off-trade alcohol sold below 45p in the new and the previous models for beer/cider, wine, spirit and RTD.

Model category	Previous model	New model
Off-trade beer	71.9%	68.5%
Off-trade wine	53.3%	48.3%
Off-trade spirit	76.0%	72.2%
Off-trade RTD	2.8%	1.7%

Table 2.3: Comparison of the proportions of off-trade alcohol sold below 45p per unit

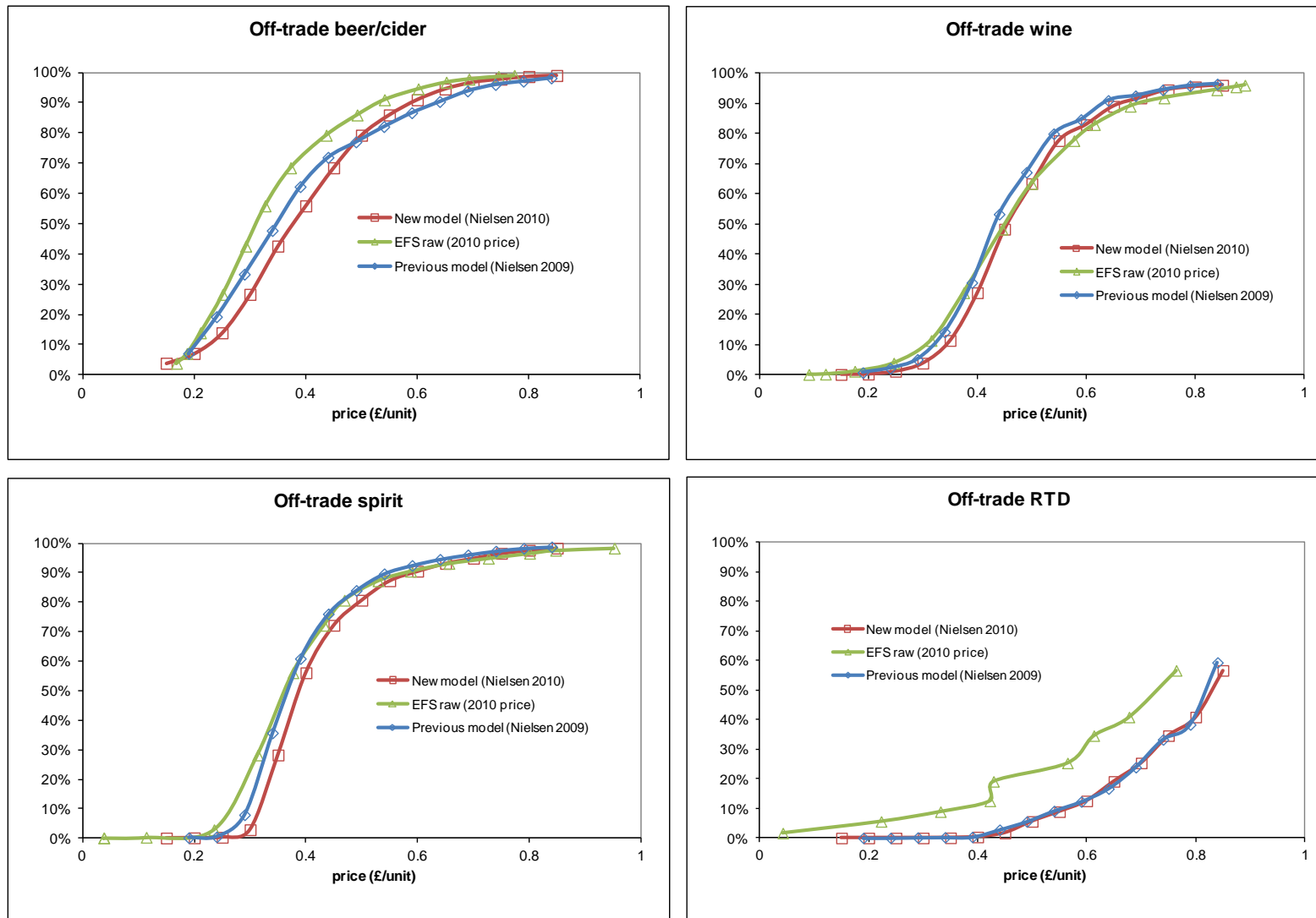


Figure 2.1: Comparison of Scotland price distributions for off-trade beverages

2.1.2 On-trade price distribution

There are three main stages for deriving the on-trade price distributions for the model: adjusting England sales data to derive “Scotland” distributions, calibration of Scotland LCF/EFS prices, and adjusting to Scotland high level mean prices per unit data. These stages are described below.

2.1.2.1 Adjustment of England sales data

Since Scotland-specific sales data by price bands is not available, the England on-trade sales data (CGA Strategy, 2009) was adjusted based on the differences between the LCF/EFS on-trade prices in England and Scotland. The CGA price data was available in 20 price bands (defined by 19 price points) from below 50p per unit to more than £2.50 per unit. Firstly, the price points are inflated to 2010 prices using alcohol specific retail price indices. Then, the relative differences between the LCF/EFS on-trade prices in England and Scotland for these 19 price points were applied to adjust the inflated price points. For example, for the price point of £1 per unit, the inflated price point for on-trade beer is £1.07 and 41% of on-trade beer was sold below this price according to the CGA sales data. For the same percentile (i.e. 41%), the corresponding prices are £0.96 and £0.97 for England and Scotland respectively, based on LCF/EFS data (both inflated to 2010 prices) and the relative difference as the ratio of Scotland price to England price is 1.01 (0.97 divided by 0.96). This ratio is then applied to the CGA inflated price point of £1.07 to get the revised “Scotland” price point which is £1.08 (1.07 multiplied by 1.01). This procedure is repeated for each of the 19 price points for on-trade beer/cider, wine, spirit and RTD. Figure 2.2 shows price distributions of England and Scotland based on LCF/EFS data, the England CGA price distributions, and the derived “Scotland” on-trade price distributions.

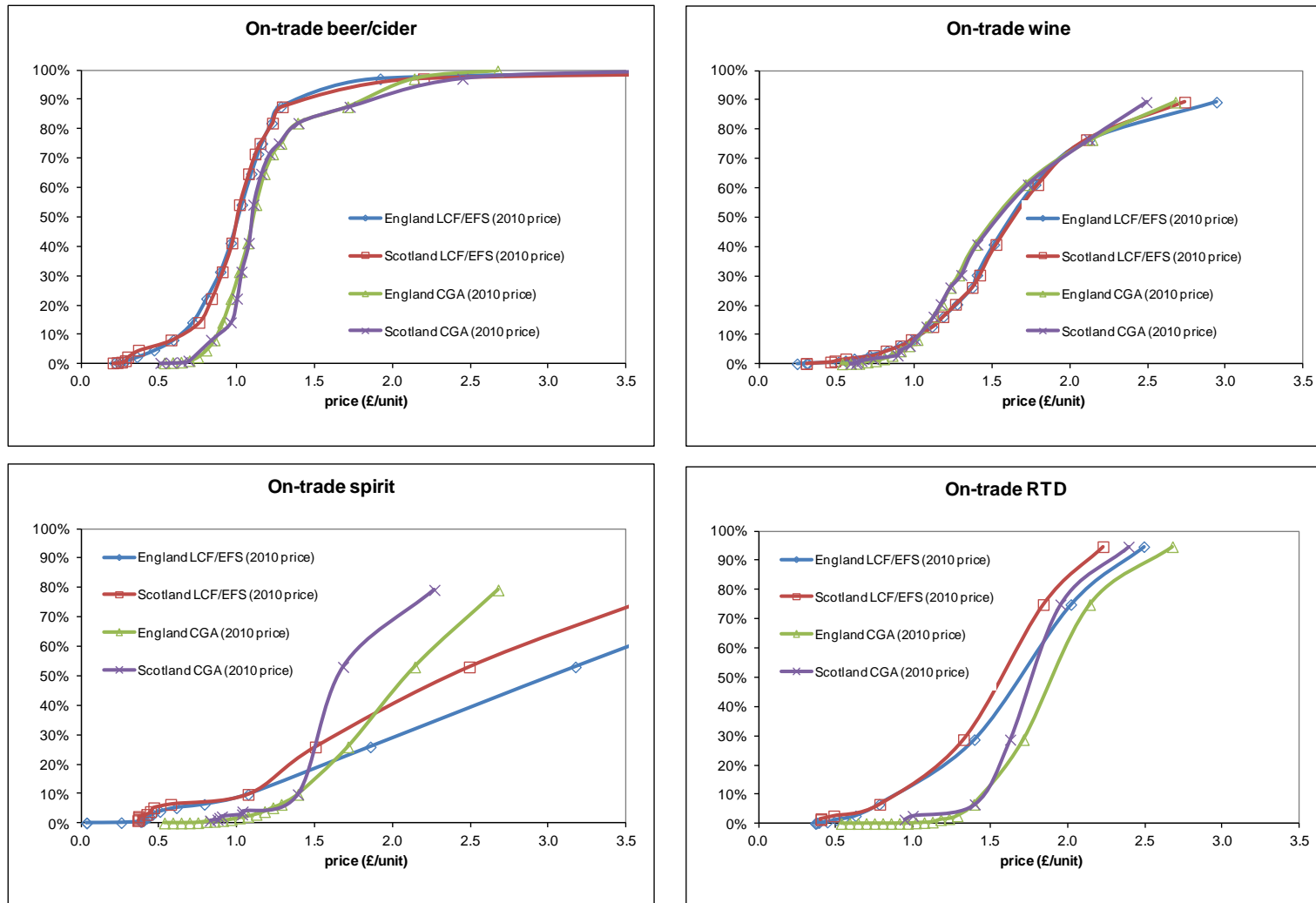


Figure 2.2: Comparison of Scotland and England on-trade prices in LCF/EFS, England CGA sale data and derived Scotland on-trade sales data

2.1.2.2 Calibration of prices

In this step, the “Scotland” on-trade sales data, derived in the previous step, is used to adjust the Scotland-specific LCF/EFS data. The same calibration method is used as for the off-trade (see Section 2.1.1.2).

2.1.2.3 Adjustment to Scotland mean prices

Because high level sales mean prices per unit of on-trade beer/cider, wine, spirit and RTD are available for Scotland (The Nielsen Company, 2010), the final step is to adjust the price data from the previous step to be in accordance with these mean prices. The adjustment factors for this step are shown in Table 2.4.

Beverage type	Mean price from the previous step (£ per unit)	Nielsen 2010 mean price (£ per unit)	Adjustment factor
Beer/cider	1.24	1.13	-9.4%
Wine	1.86	1.43	-23.5%
Spirit	1.96	1.88	-4.2%
RTD	1.79	2.01	12.2%

Table 2.4: On-trade price adjustment factors

2.1.2.4 Comparison of estimated distributions

The final on-trade price distributions used in the new model and the previous model are shown in Figure 2.3. Please note that compared to off-trade alcohol prices, prices in the on-trade sector are significantly higher, for example, less than 0.5% of on-trade alcohol is sold below 40p per unit in both the new and the previous model. Therefore, minimum pricing policies will have limited impact on on-trade prices compared to off-trade prices. Policies restricting off-trade promotions will have no direct impact on the prices in the on-trade.

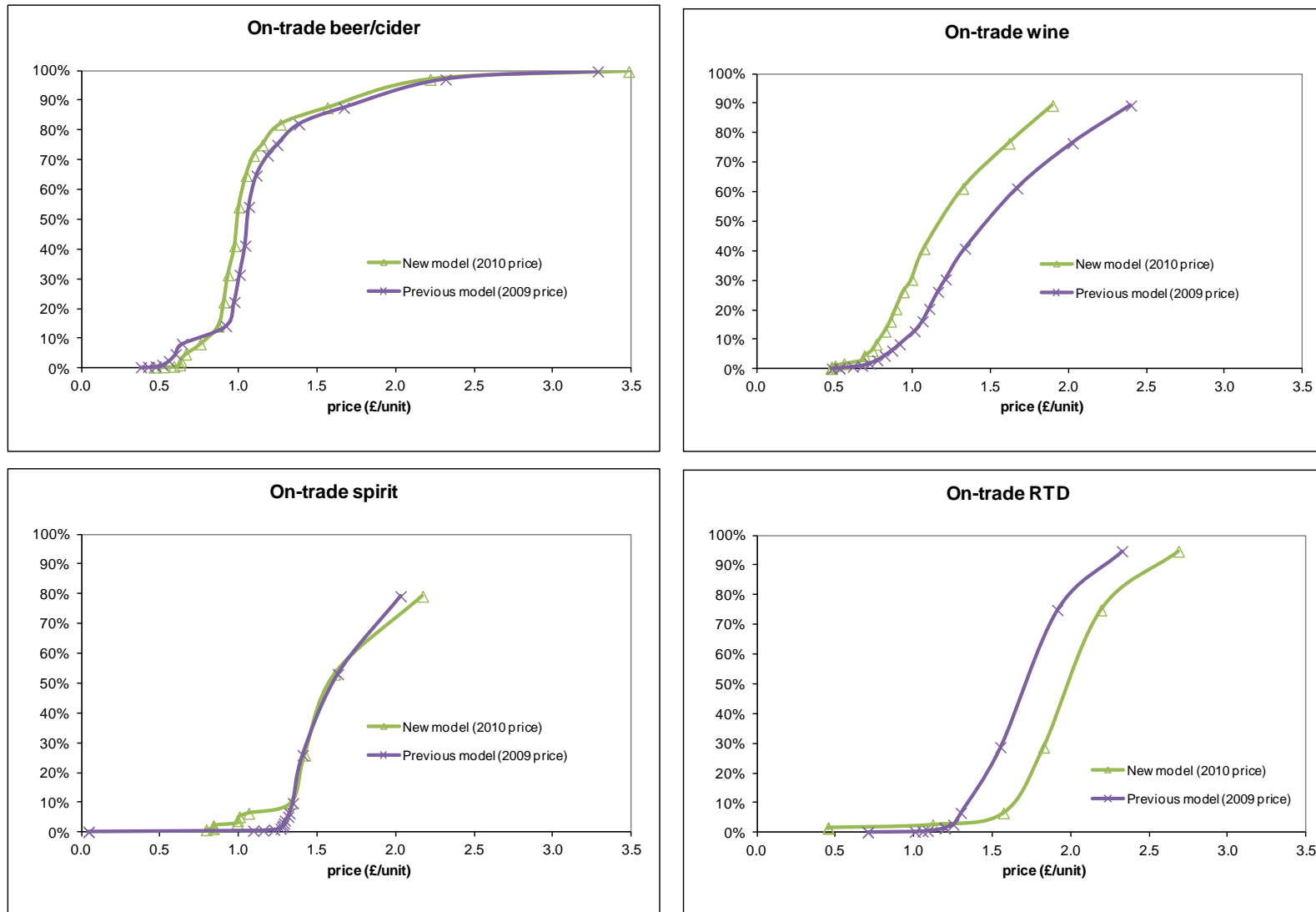


Figure 2.3: Comparison of Scotland on-trade price distributions in the new and the previous model

2.1.3 Off-trade price-based promotion

The Scottish Government does not hold market research data on 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.

The Alcohol etc. (Scotland) Act 2010 came into force on 1 October 2011 and introduced an off-trade quantity discount ban (such as “3 for 2” and “3 bottles for £10”) but did not explicitly ban straight discounts from list price. All the model inputs predate the introduction of the Act and the available England & Wales off-licences discount data does not allow us to separate quantity discount ban from straight list price discounts. The potential implications of this are considered in the limitations section of the report.

2.2 CONSUMPTION

Two population surveys provide baseline levels of consumption for the model – 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 subgroups³. The previous model used data from 2008 for SHeS and SALSUS. However, data from the SHeS 2010 is now available and has been used as the new baseline in the model. The baseline consumption for the 11-15 year old subgroups has not changed as SALSUS 2010 was not available at the time of writing.

2.2.1 Scottish Health Survey

Figure 2.4 and 2.5 present the distributions of weekly mean and peak day alcohol consumption for males and females in Scotland based on the latest consumption data from SHeS 2010. The 2010 age and gender-specific distributions of alcohol consumption for adults (18+ years) in Scotland are presented in Appendix 2.

³ SALSUS predominantly sample 13 and 15 year olds, although some 12 and 14 year olds are also sampled.

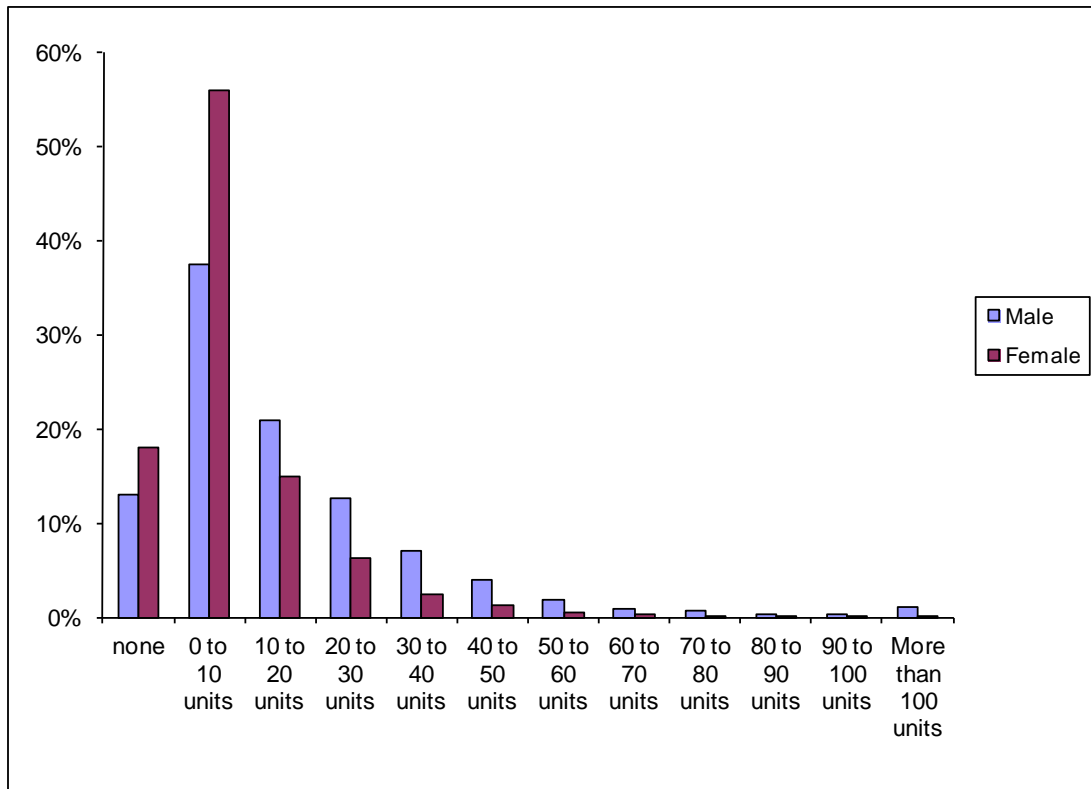


Figure 2.4: Distribution of the mean weekly intake among individuals aged 16 years old and over (SHeS 2010)

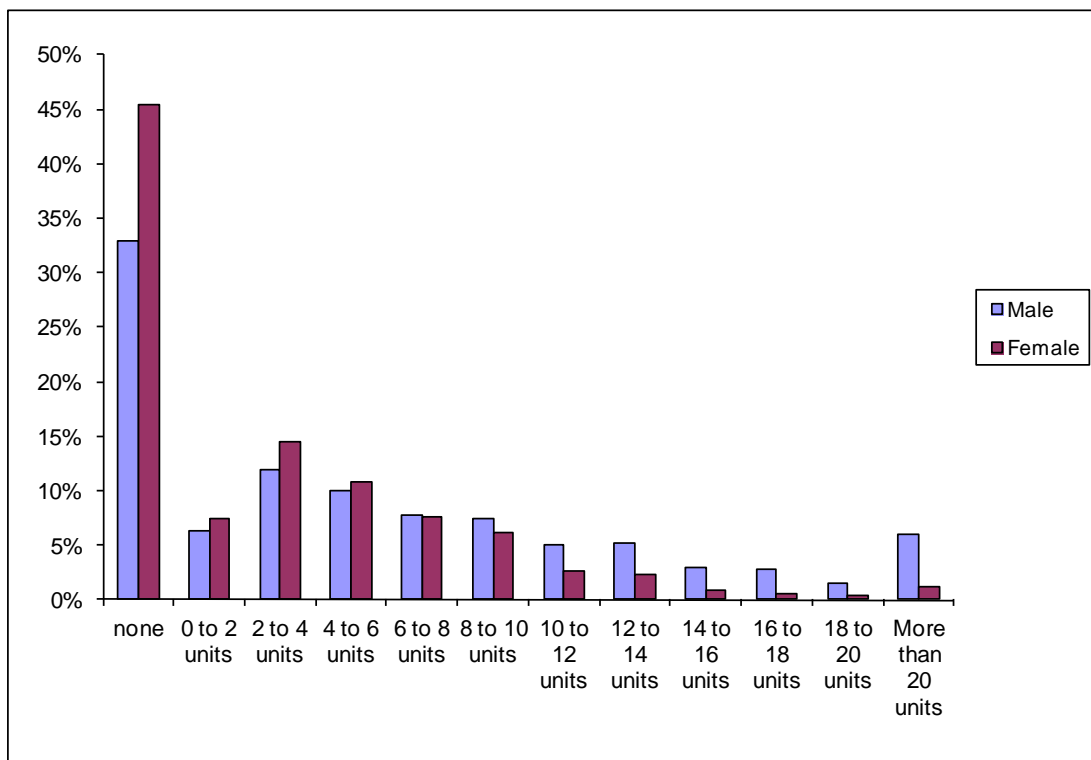


Figure 2.5: Distribution of peak intake (maximum units drunk heaviest drinking day) among individuals aged 16 years old and over (SHeS 2010)

Figures 2.6 and 2.7 compare the average consumption in SHeS 2008 and 2010 by beverage type for men and women, respectively. Figures 2.8 and 2.9 compare the average consumption in SHeS 2008 and 2010 by age group for men and women, respectively. Figures 2.14 to 2.17 compare the proportion of moderate, hazardous and harmful drinkers and the average consumption in SHeS 2008 and 2010 by these drinker groups for men and women.

Compared to the SHeS 2008, the SHeS 2010 data show a general reduction of alcohol consumption at the population level for all four modelled beverage types (note that market research Nielsen data shows a stable consumption pattern between 2008 and 2010 at the population level in Scotland and details of the data is shown in Table 2.10 and Figure 2.18). Despite the overall reduction of consumption at the population level, the consumption of those over the age of 65 for men and over the age of 75 for women has increased. The comparison also shows a significant decrease of mean consumption for younger age groups under the age of 25. To examine longer term trend for these young age groups, SHeS 2003 and 2009 are included in the comparison and the results are shown in Figure 2.10 and 2.11. It appears that high average consumption for 18-24 in SHeS 2008 is an outlier, especially for women. Figure 2.12 and 2.13 show the confidence intervals of the mean consumption estimates for the 18 to 24 year olds for the 4 survey years. The confidence intervals do not overlap between SHeS 2008 and SHeS 2010 for both male and female 18 to 24 year olds which indicates statistically significant differences between 2008 and 2010.

In the SHeS 2010 the proportions of harmful and hazardous drinkers are lower than in 2008 and the mean consumption has decreased for all drinker and gender subgroups, except for male harmful drinkers whose consumption has increased.

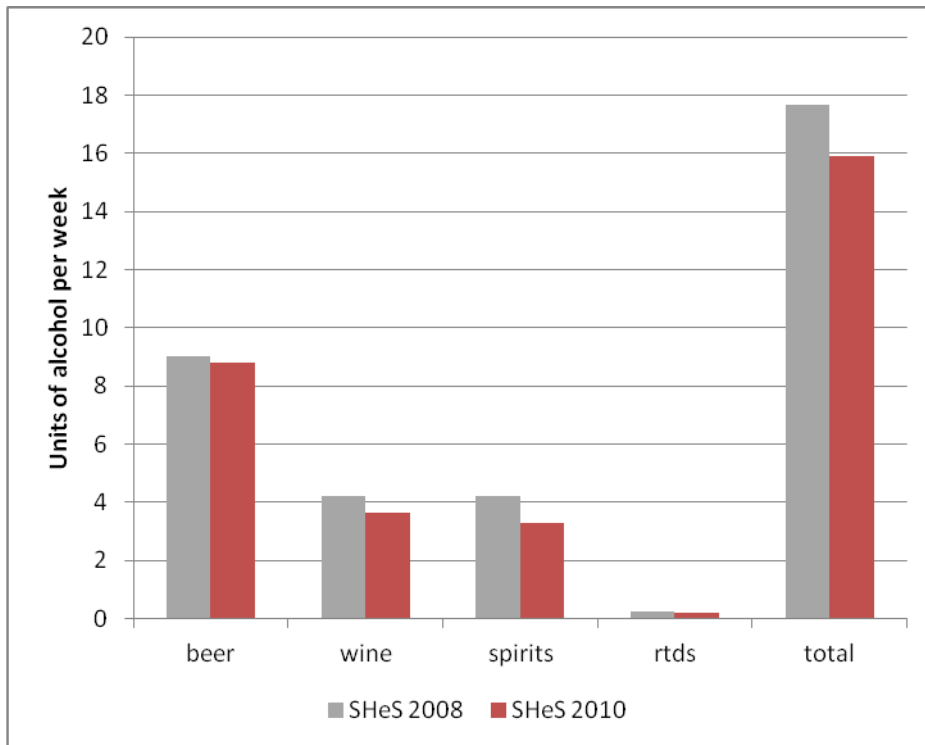


Figure 2.6: Comparison of average consumption over 4 beverage types for men (16+ years) between SHeS 2008 and 2010

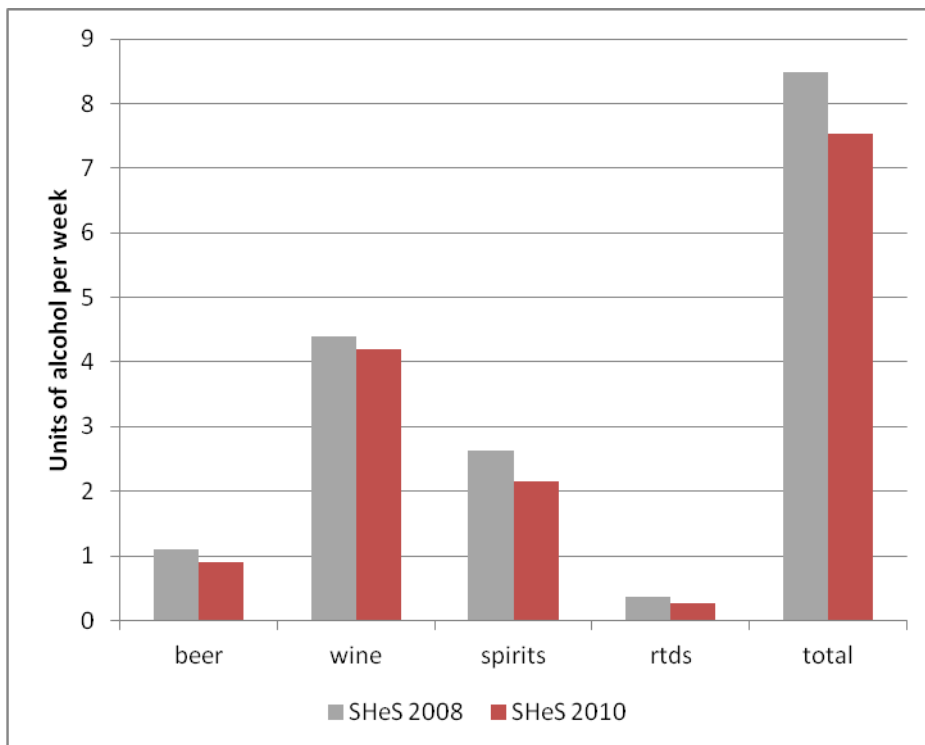


Figure 2.7: Comparison of average consumption over four beverage types for women (16+ years) between SHeS 2008 and 2010

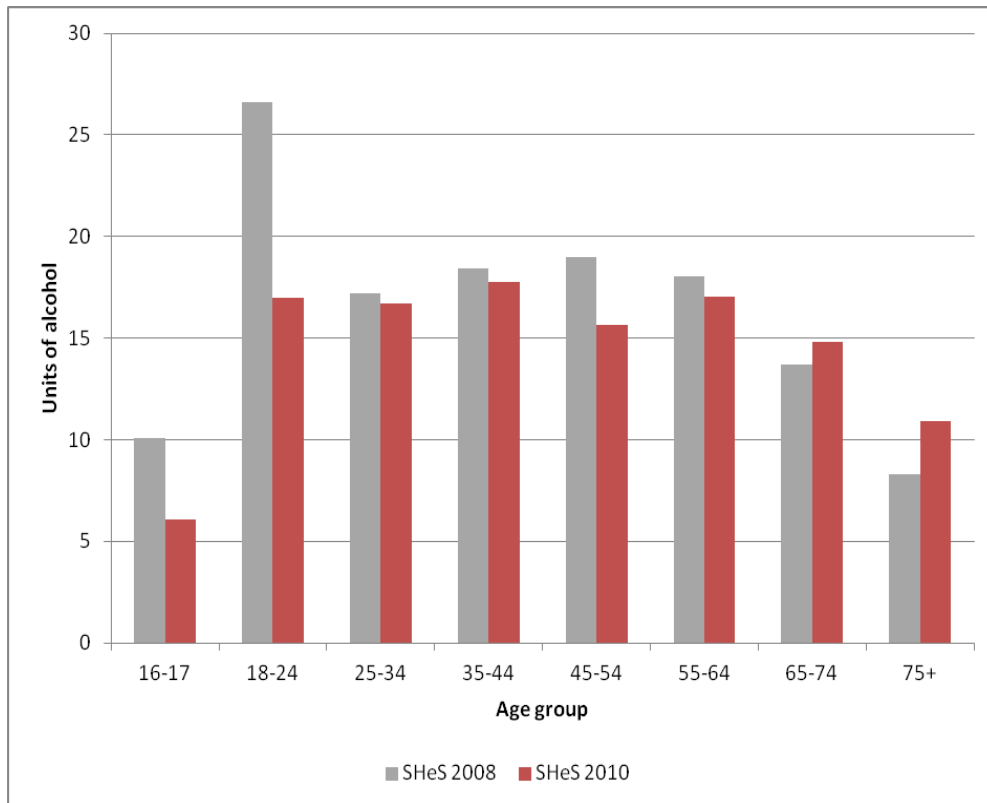


Figure 2.8: Comparison of average consumption by age group for men (16+ years) between SHeS 2008 and 2010

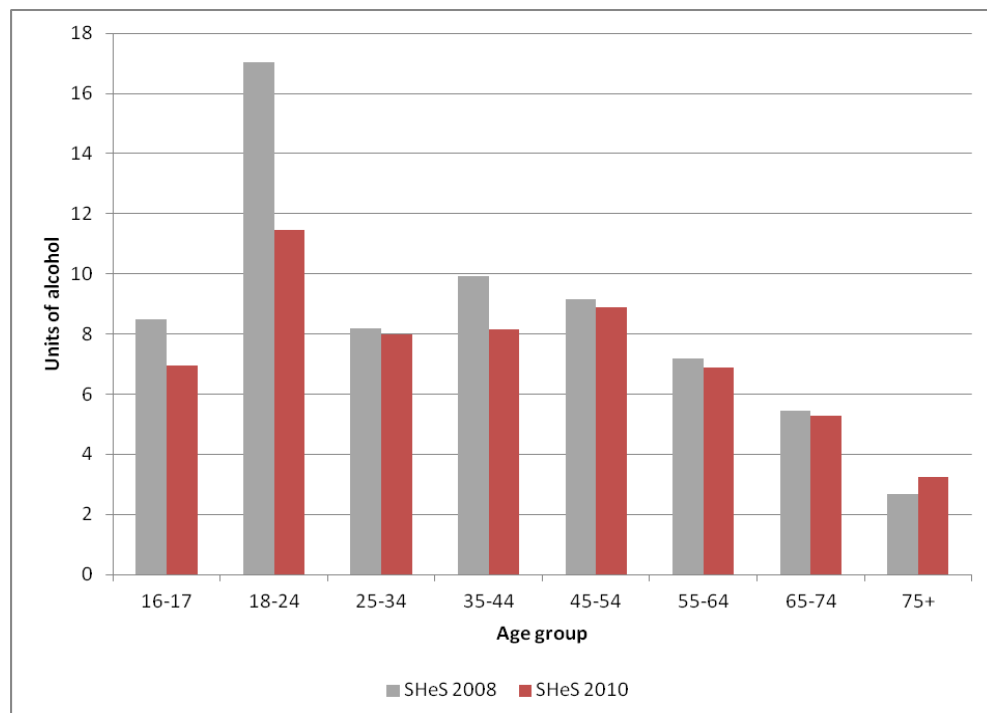


Figure 2.9: Comparison of average consumption by age groups for women (16+ years) between SHeS 2008 and 2010

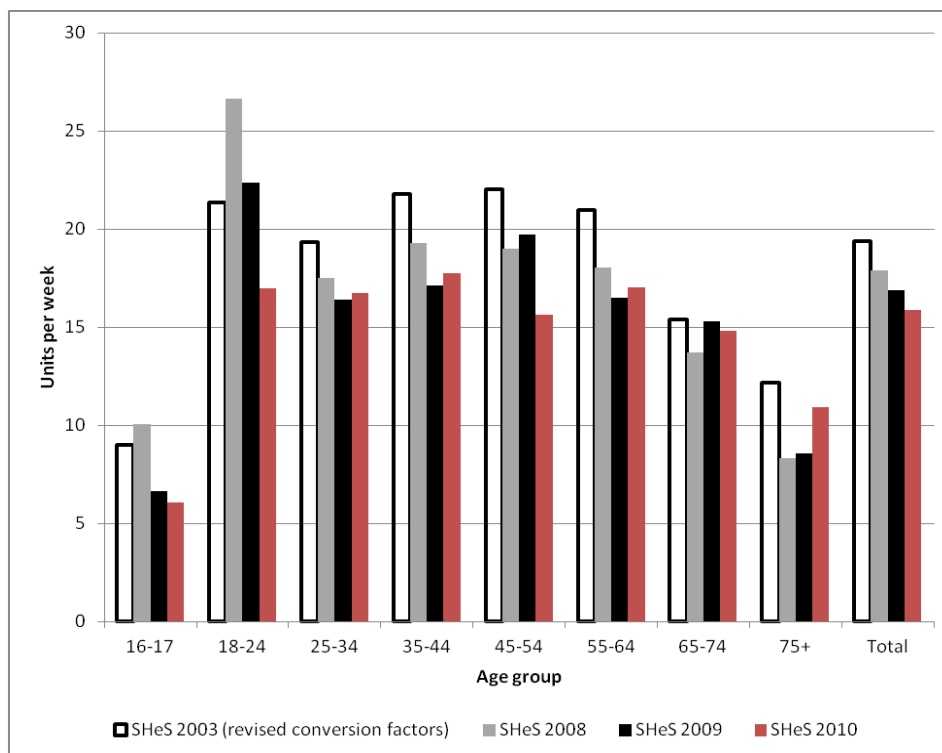


Figure 2.10: Comparison of average consumption by age groups for men (16+ years) between SHes 2003⁴, 2008, 2009 and 2010

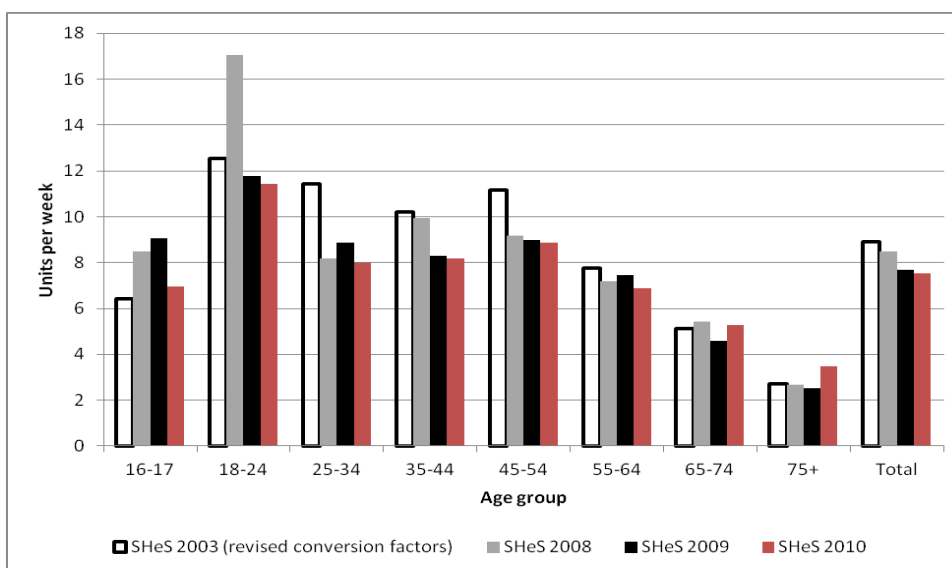


Figure 2.11: Comparison of average consumption by age groups for women (16+ years) between SHes 2003, 2008, 2009 and 2010

⁴ We applied revised conversion factors based on the study undertaken by the Office for National Statistics (Goddard, 2007) to derive alcohol consumption for SHes 2003 because the SHes uses the same updated methodology from SHes 2008.

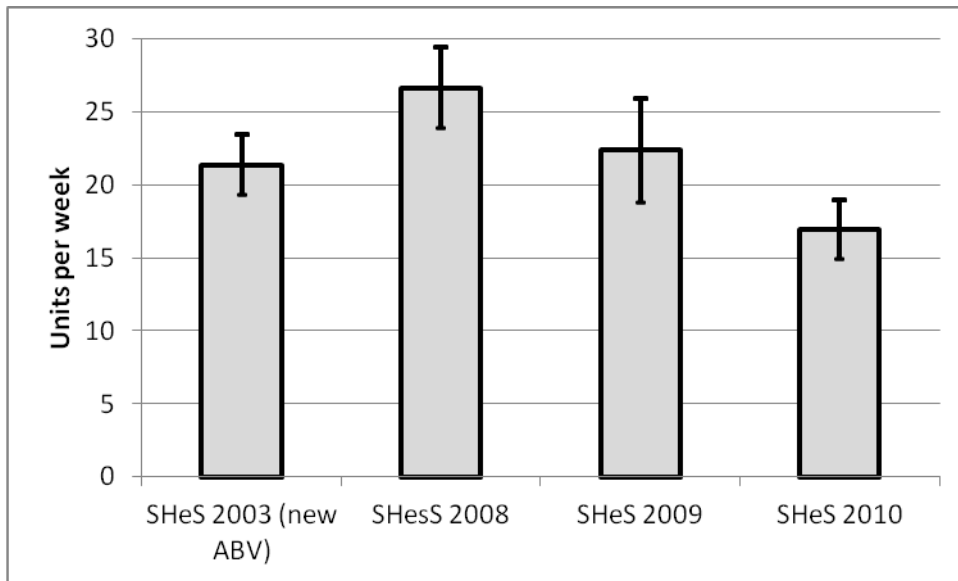


Figure 2.12: Comparison of mean and confidence intervals of weekly consumption for 18 to 24 year old male between SHeS 2003, 2008, 2009 and 2010

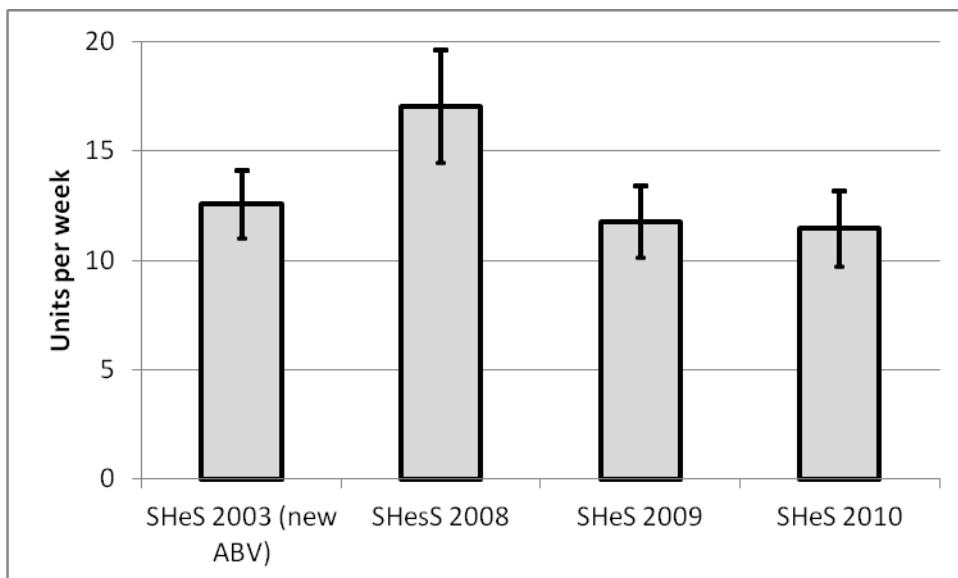


Figure 2.13: Comparison of mean and confidence intervals of weekly consumption for 18 to 24 year old female between SHeS 2003, 2008, 2009 and 2010

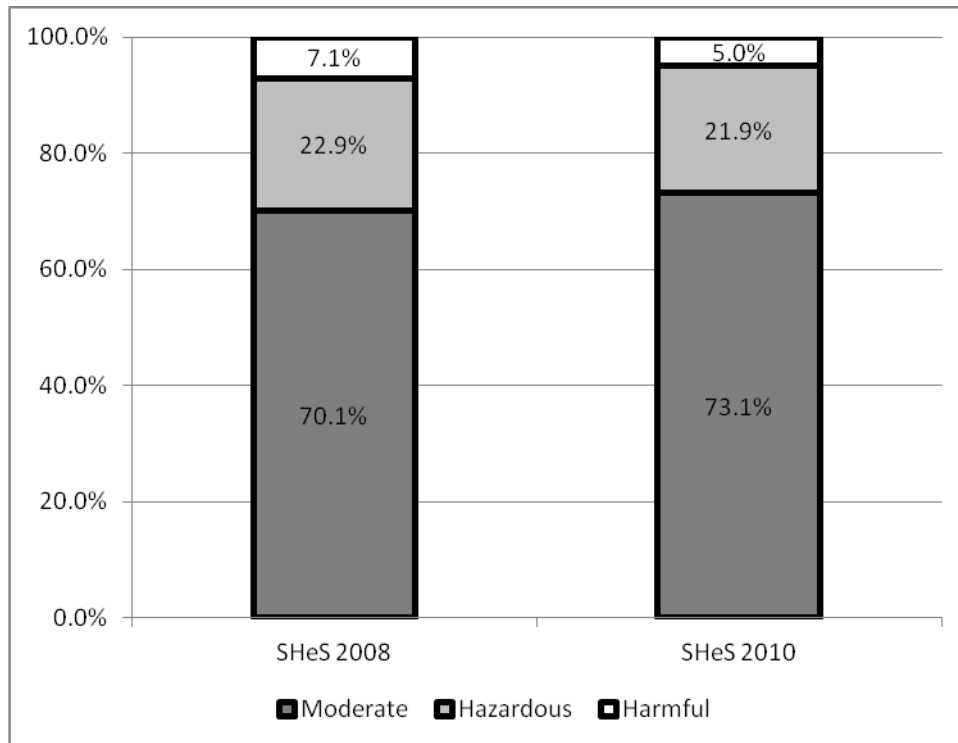


Figure 2.14: Comparison of proportions of moderate, hazardous and harmful male drinkers (16+ years) between SHeS 2008 and 2010

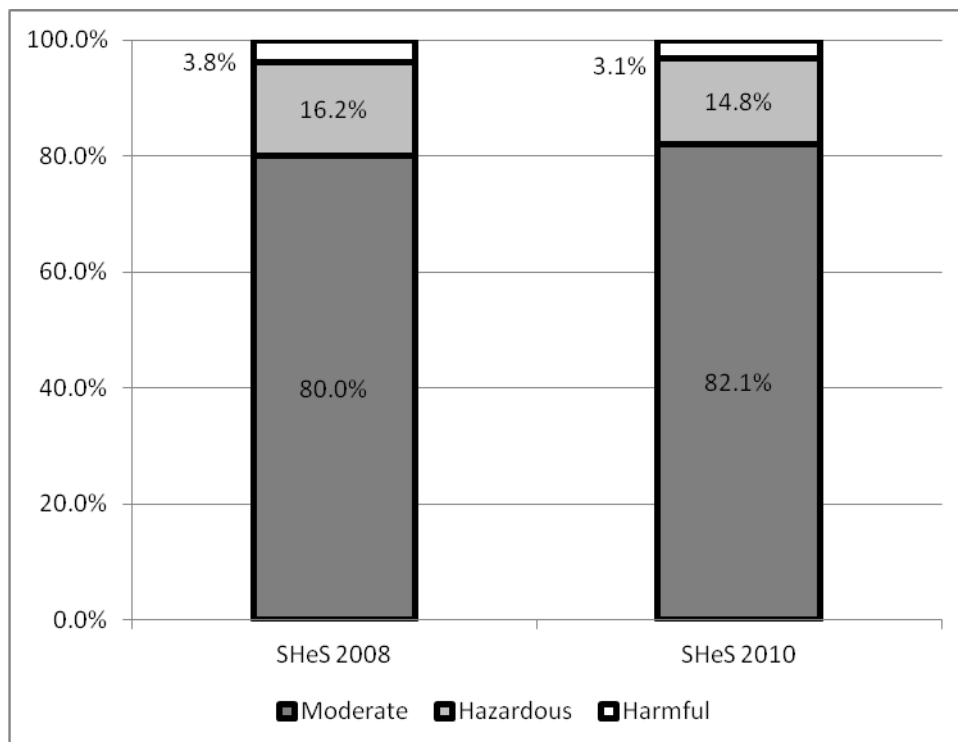


Figure 2.15: Comparison of proportions of moderate, hazardous and harmful female drinkers (16+ years) between SHeS 2008 and 2010

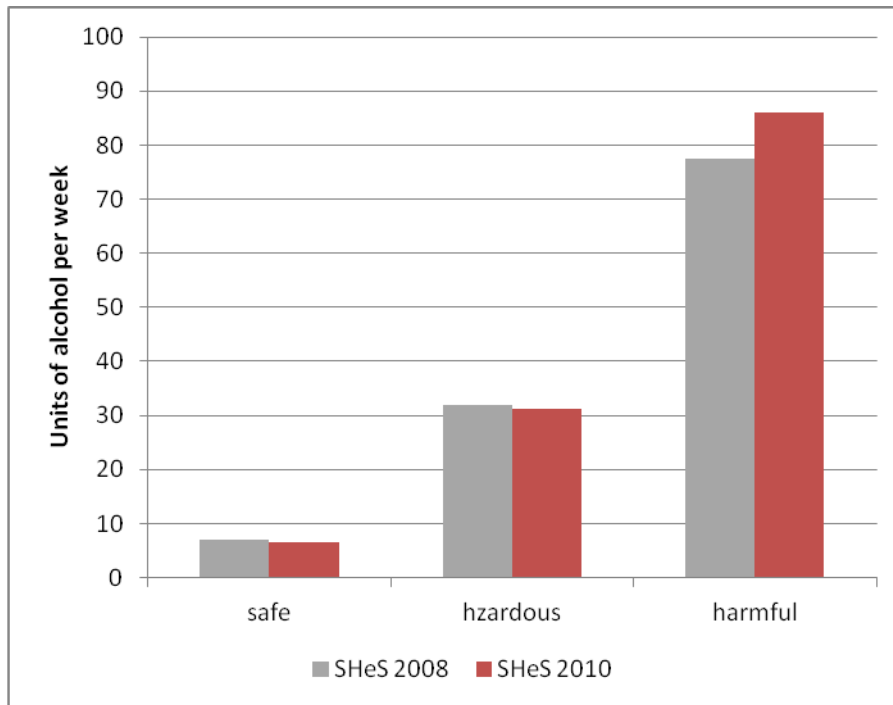


Figure 2.16: Comparison of average consumption by drinker groups for men (16+ years) between SHeS 2008 and 2010

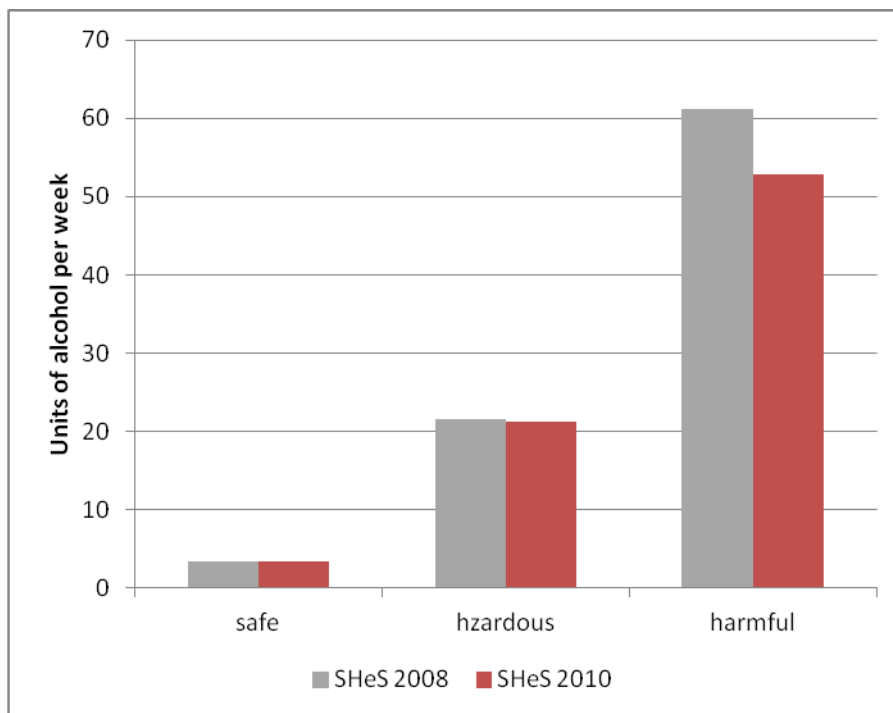


Figure 2.17: Comparison of average consumption by drinker groups for women (16+ years) between SHeS 2008 and 2010

2.2.2 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 2010 consumption data. The resulting model parameters are shown in Appendix 3.

2.3 HEALTH HARMS

Mortality rates for 2010 calendar year and person specific hospitalisation rates for 2009/10 financial year were available from the Scottish Government for the 50 conditions used in the model, and have been applied as the new baseline. Table 2.5 and 2.6 compare the model inputs of the baseline total number of mortalities and person specific hospital admissions (including both alcohol attributable and non-alcohol attributable cases) in the new and the previous models, broken down by gender and different types of health conditions. The full list of health conditions and the classification of these conditions was presented in Table 2.6 of the original report. Total baseline deaths related to conditions which are classified with 100% alcohol attributable fraction (AAF) decreased by 3% and 12% for acute and chronic conditions respectively. There also has been a 6% decrease of baseline deaths related to partially attributable chronic conditions such as liver disease and various cancers. The number of baseline deaths related to partially attributable “beneficial” chronic conditions, including coronary heart disease and cholelithiasis, decreased by 8%. For person specific hospital admissions, there has been a slight decrease for 100% alcohol attributable admissions.

Risk functions for all acute and wholly attributable chronic conditions have been 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.

	Male		Female		Total		
	New model	Previous model	New model	Previous model	New model	Previous model	% change
Acute conditions with 100% AAF	228	255	103	87	331	342	-3%
Chronic conditions with 100% AAF	593	655	251	309	844	964	-12%
Partially attributable acute conditions	1,241	1,286	778	742	2,019	2,028	0%
Partially attributable chronic conditions (detrimental)	3,408	3,583	4,680	5,005	8,088	8,588	-6%
Partially attributable chronic conditions (beneficial) *	4,626	4,879	3,578	4,019	8,204	8,898	-8%

Remarks: * beneficial conditions include coronary heart disease and cholelithiasis

Table 2.5: Model inputs of baseline mortalities (including both alcohol attributable and non-alcohol attributable cases) in the new model and the comparison with the previous model (source: National Records of Scotland/General Register Office for Scotland 2010 and 2008)

	Male		Female		Total		
	New model	Previous model	New model	Previous model	New model	Previous model	% change
Acute conditions with 100% AAF	8,635	8,783	4,142	4,367	12,776	13,150	-3%
Chronic conditions with 100% AAF	2,483	2,625	1,160	1,147	3,643	3,772	-3%
Partially attributable acute conditions	24,471	24,814	24,268	22,841	48,739	47,655	2%
Partially attributable chronic conditions (detrimental)	42,003	41,189	52,358	51,838	94,361	93,027	1%
Partially attributable chronic conditions (beneficial) *	29,971	30,207	26,654	27,713	56,624	57,920	-2%

Remarks: * beneficial conditions include coronary heart disease and cholelithiasis

Table 2.6: Model inputs of baseline person specific hospital admissions (including both alcohol attributable and non-alcohol attributable cases) in the new model and the comparison with the previous model (source: NHS National Services Scotland, Information Services Division 2009/10 and 2007)

2.4 CRIME HARMS

The availability of 2009/10 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 – The same crime categories in the previous model are used, but the baseline recorded crime volumes are based on the latest crime statistics in 2009/10 (Scottish Government, 2010).
2. Multipliers – The same method and assumptions to estimate crime multipliers in the previous model are used. The multipliers in the new model are estimated from the SCJS 2009/10 whenever possible. As in the previous model, ‘shoplifting’ and ‘total sexual offences’ continue to use the multipliers derived for the England model because relevant multipliers are not available from the SCJS.

The baseline police recorded crime volumes and multipliers used in this version and a comparison with the previous model are shown in Table 2.7. Overall, using the new data results in lower baseline crime volumes (-6.1%). 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 (%)
Serious assault, other non-sexual crimes of violence	6,167	5,322	-13.7%	2.3	2.5	14,343	13,304	-7.2%
Robbery	2,963	2,496	-15.8%	2.1	5.3	6,173	13,137	112.8%
Total sexual offences	6,331	6,458	2.0%	5.2	5.2	32,921	33,582	2.0%
Housebreaking - Domestic dwelling	12,133	11,790	-2.8%	1.6	1.6	18,958	18,422	-2.8%
Housebreaking - Domestic non-dwelling & other	13,363	11,984	-10.3%	1.6	1.6	20,880	18,725	-10.3%
Theft from a motor vehicle	6,034	4,497	-25.5%	2.6	2.8	15,471	12,492	-19.3%
Theft of a motor vehicle	11,551	9,304	-19.5%	1.1	1.0	12,555	9,494	-24.4%
Shoplifting	32,048	30,332	-5.4%	100.0	100.0	3,204,800	3,033,200	-5.4%
Other theft	58,173	53,889	-7.4%	4.0	3.5	234,454	187,911	-19.9%
Fire-raising	4,632	4,227	-8.8%	2.5	2.6	11,580	10,837	-6.4%
Vandalism etc	101,512	86,418	-14.9%	2.5	2.6	253,781	221,585	-12.7%
Minor assault	73,371	71,472	-2.6%	2.3	2.5	170,630	178,681	4.7%
Total	328,279	298,189	-9.2%			3,996,546	3,751,370	-6.1%

Table 2.7: Baseline police recorded crime volumes and multipliers in the new model and the comparison with the previous model

2.5 WORKPLACE HARMS

New model inputs have been extracted using the Scottish records in the LFS 2010 for absence rates, number of days worked per week, annual gross income and working rates (see Table 2.8). The risk functions for absenteeism and unemployment were also re-estimated using the updated baseline mean and peak consumption levels. The updated parameters for the risk functions are shown in Appendix 7.

Age (years)	Absence rate		Days scheduled to work		Gross annual earnings (£)		Working rate	
	Male	Female	Male	Female	Male	Female	Male	Female
16-17	1.1%	0.0%	3.32	2.72	4689	2610	22.3%	30.6%
18-24	2.0%	2.7%	4.45	4.02	13208	10897	64.5%	60.0%
25-34	1.4%	2.3%	4.93	4.32	26045	17976	81.1%	73.3%
35-44	1.5%	3.1%	4.95	4.28	32718	20052	85.2%	78.6%
45-54	2.0%	2.5%	4.98	4.42	30572	19608	81.4%	76.9%
55-64	2.5%	1.9%	4.82	4.39	28155	17219	62.9%	49.3%

Table 2.8: Workplace model inputs using LFS 2010

2.6 SENSITIVITY ANALYSIS

The original and the previous analyses 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, between alcohol consumption and population-level risk of crime, and the preferences for off-trade consumption were also explored.

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

2.6.1 Preferences for off-trade consumption

For each subgroup and beverage type, the proportion of the total consumption occurring in each of the on-trade and off-trade is based on the LCF/EFS purchasing data. Alternative evidence for Scotland on the on/off-trade split based on The Nielsen Company data for the year 2010 has been made available. An updated comparison with the LCF/EFS data is shown in Table 2.9.

Beverage type	Scotland preference for off-trade alcohol (via LCF/EFS)	Scotland preference for off-trade alcohol (via Nielsen)
Beer/cider	51.7%	51.3%
Wine	90.4%	78.5%
Spirit	87.8%	76.6%
RTD	52.2%	70.1%
Total	72.6%	66.8%

Table 2.9: Comparison of preferences for off-trade alcohol between LCF/EFS and Nielsen data sources

The reason for the discrepancy between LCF/EFS and the Nielsen off-trade preferences is not fully understood. The Nielsen data is based on a combination of census and survey data, whilst the LCF/EFS data is based on a 14-day purchasing diary. One hypothesis is that the modelling assumption that two weeks' purchasing in the LCF/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 2.9.

2.6.2 Adjustment for unrecorded consumption in survey data

The most reliable source of information on alcohol consumption is usually considered to be data on average per capita consumption derived from official production, sales and/or customs figures (e.g. HMRC customs data for the UK, Nielsen sales data for Scotland) (Gmel and Rehm 2004). The main alternative, weighted and grossed data from population-wide surveys (e.g., SHeS) is known to substantially underestimate population level alcohol consumption (Nelson et al, 2010). The Sheffield Alcohol Policy Model requires individual-level data on consumption patterns for different subgroups defined by gender, age and drinking level rather than just population-level averages, and this can only be obtained from survey data. We have not previously corrected the survey data for under-coverage, primarily because of the formidable practical challenges in doing this and the lack of available methodologies in the wider literature. Recently, however, researchers have proposed a method to adjust survey consumption using a method based on the gamma distribution (Rehm et al, 2010).

The key steps of performing this sensitivity analysis include:

- Adding missing populations (e.g. homeless) into the SHeS 2010.
- Adjustment of under-represented populations (e.g. student and dependent drinkers) in SHeS 2010.
- Other adjustments to the SHeS 2010 to account for other biases (e.g. pouring size of off-trade spirit)
- Calibration of the revised SHeS 2010 to Nielsen 2010 sales data using the gamma function.

Detailed methodology of the adjustment of survey consumption and the calibration of survey consumption to sales data is presented elsewhere (Meier et al, 2011). The full paper is available on request. Three main assumptions need to be made when using this approach: that 1) the customs or sales data provide an accurate reflection of the “true” per capita consumption, 2) there is no differential under-coverage, i.e. that the overall coverage rate for the survey applies to all modelled subpopulations and 3) the proportion of abstainers as derived from the survey reflects the true proportion of current abstainers (as only known drinkers can be shifted).

2.6.2.1 Differences between survey consumption and per capita sales data

Table 2.10 and Figure 2.18 compare the Scottish per capita consumption estimated from the Nielsen sales data (i.e. the “gold standard”), the SHeS and the Scottish records in the GLF/GHS for 2003, 2008, 2009 and 2010. The coverage of the SHeS and the GLF/GHS is also shown in the table. There are significant differences in per capita consumption estimates between the sales data and the survey data, with the coverage of the SHeS ranging from 51% to 63% and the GLF/GHS ranging from 46% to 53%. There also appears to be a general trend of decreasing survey coverage over time. For example, from 2008 to 2010, the per capita consumption based on the Nielsen sales data remains largely unchanged while the consumption in the SHeS shows a steady decrease during this time period.

Year	Nielsen sales data (units per week)	SHeS survey (units per week)	Coverage	GLF/GHS survey (units per week)	Coverage
2003	21.99	13.87	63%	11.60	53%
2008	22.70	13.05	57%	10.37	46%
2009	22.86	12.25	54%	11.35	50%
2010	22.72	11.58	51%	n/a	n/a

Table 2.10: Comparison of Scotland per capita consumption in Nielsen sales data, SHeS and GLF/GHS



Figure 2.18: Comparison of Scotland per capita consumption between Nielsen sales data and SHeS

2.6.2.2 Adjustment of survey consumption

The SHeS is a sample of private households. Thus, many populations are excluded from the sampling frame – in particular (i) elderly people living in care homes; (ii) military personnel not living in private accommodation; (iii) inpatients of psychiatric institutions; (iv) homeless people; and (v) prisoners. We attempted to obtain best estimates of the size of the population and alcohol consumption for each of these groups. Apart from missing populations, we investigated possible under-coverage in two groups of particular interest: students (as transient living arrangements may make non-response more likely and the weighting procedure does not consider student status) and people with alcohol dependency. The data sources and the assumptions required when adding missing populations and adjusting under-represented populations are presented elsewhere (Meier et al, 2011). Please note most adjustments are based on Scottish specific data sources or Scottish records in the identified data source.

One final adjustment to account for the survey bias relates to the assumed size of a “standard drink” of off-trade spirit based on two Scottish studies (Gill et al, 2004; MacAskill et al, 2007) which found that on average people poured more than 2 units of spirit at home when asked to pour a drink of the size they would normally consume at home. The standard assumption in the GLF/GHS and other surveys is that a standard drink of spirits consumed in the off-trade contains one unit of alcohol.

Table 2.11 illustrates the adjustments to the SHeS 2010 data. It shows that the per capita consumption increases from 11.5 units to 19.6 units per week and the population size represented in the survey increases by 331,000 people after all the adjustments. The factors which have the biggest effect on per capita consumption are the adjustment of dependent drinkers and assumption of pouring size for off-trade spirits. The inclusion of missing populations and the adjustment of students have limited impact on survey per capita consumption. These findings are very similar to those seen when we adjusted the GLF/GHS for England using the same methodology (Meier et al, 2011),

	Units per week per person	Effect size on consumption	Population size (16+)
Original SHeS 2010	11.52		4,229,548
Missing populations			
<i>Care homes</i>		-0.05	34,059
<i>Military</i>		0.01	9,191
<i>Mental health institutions</i>		0.00	3,227
<i>Homeless</i>		0.33	55,270
<i>Prisoners</i>		-0.01	7,074
Total		0.27	
Under-coverage			
<i>Students</i>		-0.06	55,470
<i>Dependent drinkers</i>		4.74	166,238
Total		4.68	
Assumed beverage size (off-trade spirit)		3.17	
Total effect		8.12	
New SHeS 2010	19.64		4,560,078

Table 2.11: Adjustments of SHeS 2010

2.6.2.3 Calibration of survey consumption to per capita sales data

Even after adjustments, there remains a gap between the revised SHeS (19.64 units per week) and the Nielsen estimates (22.72 units per week). We performed an adjustment based on the method proposed by Rehm et al (2011) in order to shift survey data to 90% of the aggregate per capita data. Adjustments to 90% rather than 100% of sales data were recommended to allow for the uncertainty about the degree of underreporting in medical epidemiological studies, from which we derived the risk functions used in the model.

A gamma distribution is fitted to the empirical distributions from the survey for each defined gender/age subgroup. A single adjustment factor was calculated for each alcoholic beverage type and applied to all subgroups (see Table 2.12).

Beverage	Nielsen sales data 2010 (units per week)	90% of Nielsen sales data (units per week)	Revised SHeS 2010 (units per week)	Adjustment factor
Beer/cider	9.30	8.37	7.60	1.10
Wine	6.78	6.10	4.73	1.29
Spirit	6.65	5.99	7.47	0.80
All	22.72	20.45	19.64	

Table 2.12: Calibration of the revised SHeS 2010 consumption to 90% of Nielsen sales data

The adjustment factor was then applied to give the new means; while the new standard deviation was calculated using an equation (see Equation 1) derived empirically from international data via regression analyses (Rehm et al, 2011).

$$\text{Equation 1: } \hat{\sigma}_{s/shifted} = 1.174 * \hat{\mu}_{s/shifted} + 1.003 * sex$$

where $\hat{\mu}_{s/shifted}$ represents the shifted sample mean, and sex was coded 0 for men and 1 for women.

2.6.2.4 Comparison of estimates

Figure 2.19 and 2.20 compare the average consumption between the original SHeS 2010 and the alternative baseline consumption, by beverage type and separately for men and women. Figure 2.21 and 2.22 compare the average consumption between the original and alternative baseline consumption, by age group and separately for men and women. Detailed results of the sensitivity analysis are presented in Section 3.2.6 and in the appendices.

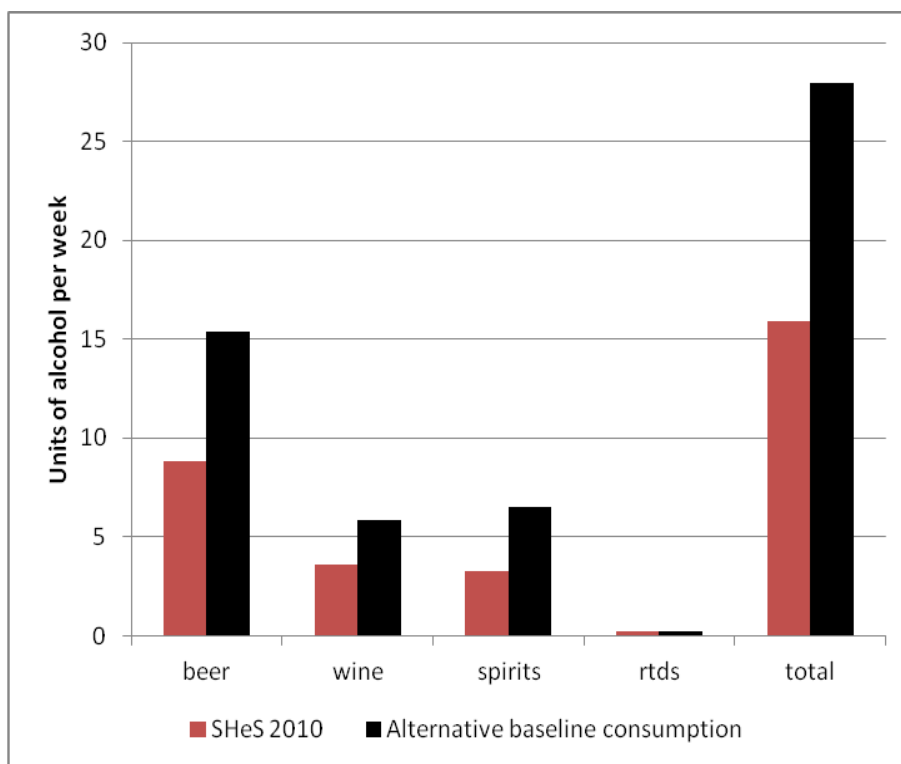


Figure 2.19: Comparison of average consumption across 4 beverage types for men (16+ years) between the base case and the alternative accounting for under-recording

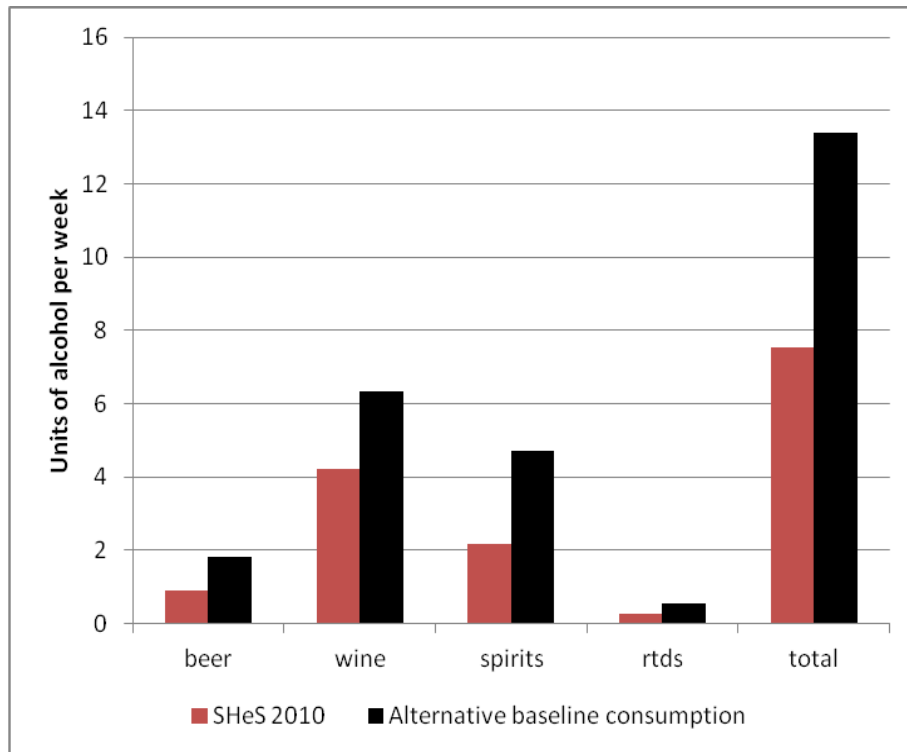


Figure 2.20: Comparison of average consumption over 4 beverage types for women (16+ years) between the base case and the alternative accounting for under-recording

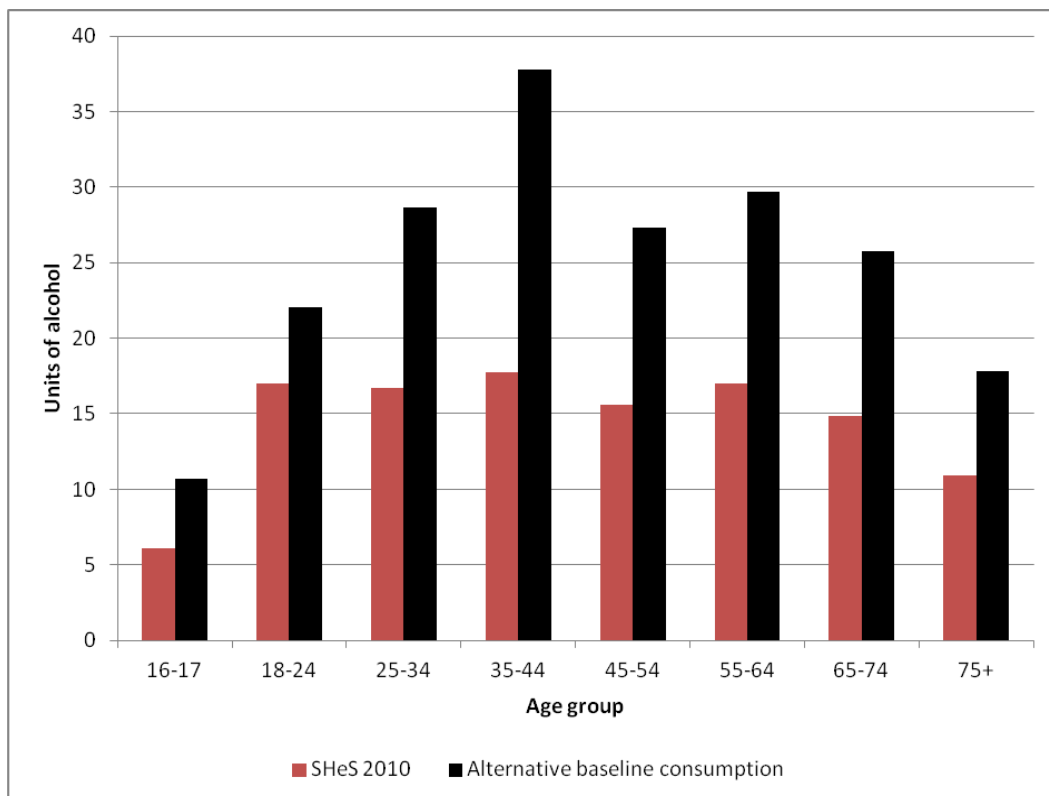


Figure 2.21: Comparison of average consumption by age group for men (16+ years) between the base case and the alternative accounting for under-recording

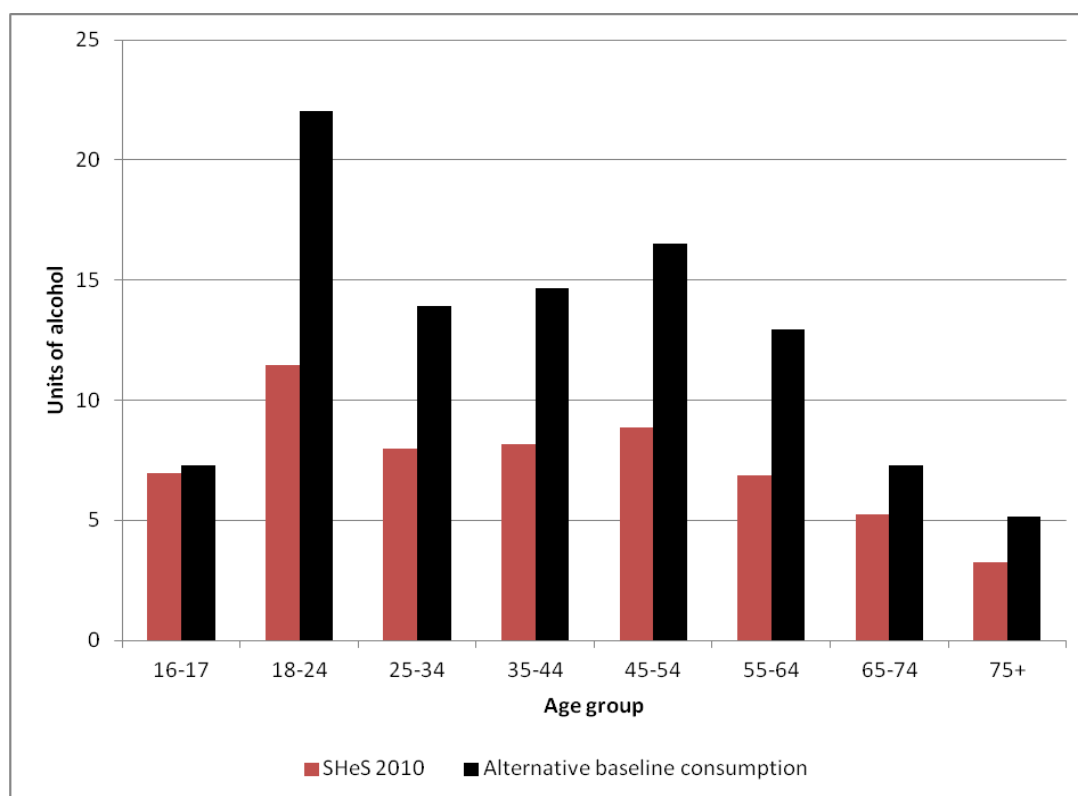


Figure 2.22: Comparison of average consumption by age group for women (16+ years) between the base case and the alternative accounting for under-recording

3 RESULTS

This section contains the 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 based on the base case scenario (i.e., without calibration to the sales data) and 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 Tables 3.7 to 3.10. The results of three example policies (45p minimum price, off-trade discount ban and the combination of the two policies) are presented in detail. The example policies reported in the original and the previous models use a 40p minimum price. The reason for the change to a 45p minimum price as the illustrative example is because this was the minimum price proposed previously by the Scottish Government.

3.1.1 Example policy analysis: 45p minimum price (scenario 5)

Table 3.1 shows the results for consumption changes, consumer spending and sales for a 45p 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 -3.5%. Consumption is estimated to reduce by 25.3 units per drinker per year. **Consumption changes are greatest for harmful drinkers (-278.3 units per year). Moderate drinkers are affected, but to a far lesser degree in absolute terms (-4.8 units per year).**

Effects on health are estimated to be substantial with alcohol-attributable deaths estimated to reduce by approximately 36 within the first year of implementation and a full effect after 10 years of around 196 per annum. Deaths are distributed differentially across the groups, with approximately 8 saved amongst moderate drinkers, 76 amongst hazardous drinkers and 112 amongst harmful drinkers. Alcohol-attributable morbidity also decreases with an estimated reduction of 550 acute and 162 chronic illnesses in year 1. Hospital admissions are estimated to reduce by around 951 in year 1, and a full effect after 10 years of 4,053 avoided admissions per annum. Healthcare service costs are estimated to reduce by £4.0m in year 1, with a QALY gain valued at £10.4m.

Crime is estimated to fall by 2,160 offences per annum. Over half (54%) of this annual reduction is amongst harmful drinkers, with approximately 25% 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 decrease by £1.8m per year.**

Workplace harms are estimated to be reduced by 909 fewer people unemployed and 19,646 fewer sick days per year.

The societal value of these harm reductions is estimated at £606m in total over the 10 year period modelled. Over the 10 year period, the estimated societal value of the harm reductions is as follows: NHS cost reductions (£70m), value of QALYs saved (£301m), crime costs saved (£15m), value of crime QALYs saved (£12m) and employment related harms avoided (£208m).

The societal value of harm reductions is distributed differentially across the subgroups, with harmful drinkers accounting for £388m of the total value, hazardous drinkers £133m and moderate drinkers £84m.

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: £98 per drinker per annum
- Hazardous drinkers: £40 per drinker per annum
- Moderate drinkers: £6 per drinker per annum.

An overall increased revenue by the retailer (after VAT and duty) is estimated of £69m per annum, split roughly 70:30 between off-trade and on-trade sectors.

Overall revenue to the Treasury (from duty and VAT receipts) is estimated to change by -£4.8m, with VAT increased by £9.6m and duty decreased by £14.3m.

Males and Females							
Consumption Patterns			Scotland 11+	Moderate 18+	Hazardous 11+	Harmful 11+	
Baseline							
Mean consumption per person per week n people			11.24	4.79	26.99	72.91	
			4,523,448	3,218,772	794,079	181,408	
Mean consumption per drinker per week n drinkers			13.80	5.98	26.99	72.91	
			3,683,040	2,581,232	794,079	181,408	
% binge (>8 males, >6 females)			20.4%	12.0%	50.4%	70.3%	
Mean scale of binge if binge occurs (units)			14.1	12.2	13.9	21.9	
Volume sales (units per drinker per year)	Off-trade	Beer	121.2	33.4	197.9	1,097.2	
		Wine	207.5	85.5	472.2	894.5	
		Spirit	123.6	47.9	255.3	695.5	
		RTD	6.2	2.0	7.1	54.0	
	On-trade	Beer	172.6	80.3	341.6	807.2	
		Wine	33.5	25.6	57.7	48.8	
		Spirit	41.7	34.2	55.9	87.9	
		RTD	13.4	2.8	20.0	116.7	
	Total			719.6	311.7	1,407.6	3,801.8
	Value sales (£ per drinker per year)	Off-trade	Beer	£ 48	£ 16	£ 81	£ 396
Wine			£ 105	£ 45	£ 235	£ 449	
Spirit			£ 57	£ 23	£ 118	£ 294	
RTD			£ 5	£ 2	£ 6	£ 41	
On-trade		Beer	£ 193	£ 99	£ 362	£ 852	
		Wine	£ 48	£ 36	£ 85	£ 65	
		Spirit	£ 82	£ 71	£ 99	£ 167	
		RTD	£ 27	£ 6	£ 41	£ 240	
Total			£ 566	£ 298	£ 1,027	£ 2,504	
Absolute change							
Mean consumption per person per week			-0.40	-0.07	-0.73	-5.34	
Mean consumption per drinker per week			-0.49	-0.09	-0.73	-5.34	
% change in mean consumption			-3.5%	-1.5%	-2.7%	-7.3%	
Change in volume of consumption (units per drinker per year)	Off-trade	Beer	-20.05	-2.22	-30.76	-240.23	
		Wine	-2.55	-1.92	-4.13	-6.00	
		Spirit	-9.06	-2.27	-18.23	-71.35	
		RTD	0.01	0.01	0.02	0.08	
	On-trade	Beer	5.98	1.38	14.53	37.96	
		Wine	0.07	0.01	0.26	0.22	
		Spirit	0.21	0.22	0.10	0.57	
		RTD	0.05	0.01	0.09	0.49	
	Total			-25.33	-4.79	-38.11	-278.27
	Change in £ value of purchases (sales) (£ per drinker per year)	Off-trade	Beer	£1.70	£0.75	£2.86	£10.95
Wine			£5.89	£1.64	£15.13	£29.77	
Spirit			£2.14	£0.93	£4.04	£12.34	
RTD			£0.01	£0.01	£0.02	£0.07	
On-trade		Beer	£6.99	£1.72	£17.08	£42.26	
		Wine	£0.12	£0.02	£0.44	£0.34	
		Spirit	£0.48	£0.42	£0.58	£1.02	
		RTD	£0.11	£0.02	£0.19	£1.01	
Total			£17.46	£5.51	£40.33	£97.76	
Effect of policy on "pocket" if drinkers did not change consumption (£ per drinker per year)		Off-trade	Beer	£10.88	£1.80	£16.98	£120.35
	Wine		£6.47	£2.43	£15.33	£29.03	
	Spirit		£6.43	£2.03	£12.69	£45.73	
	RTD		£0.00	£0.00	£0.00	£0.00	
	On-trade	Beer	£0.13	£0.00	£0.58	£0.00	
		Wine	£0.01	£0.01	£0.00	£0.00	
		Spirit	£0.04	£0.00	£0.18	£0.00	
		RTD	£0.00	£0.00	£0.00	£0.00	
	Total			£23.95	£6.27	£45.77	£195.11
	Total change in retailer received £m (after VAT+Duty)	Off-trade	£m 48.0	£m 9.9	£m 21.3	£m 16.5	
On-trade		£m 21.1	£m 4.2	£m 10.8	£m 6.0		
Total		£m 69.1	£m 14.1	£m 32.2	£m 22.5		
Total Change in VAT & Duty Received	Off-trade	£m -12.1	£m -1.3	£m -3.8	£m -6.9		
	On-trade	£m 7.3	£m 1.4	£m 3.7	£m 2.1		
	Total	£m -4.8	£m 0.1	£m -0.1	£m -4.7		
% change in spend / sales	Off-trade	+4.5%	+3.9%	+5.0%	+4.5%		
	On-trade	+2.2%	+1.0%	+3.1%	+3.4%		
	Total	+3.1%	+1.9%	+3.9%	+3.9%		
Total Change Pop'n Spend (Sales)	Off-trade	£m 35.9	£m 8.6	£m 17.5	£m 9.6		
	On-trade	£m 28.4	£m 5.6	£m 14.5	£m 8.1		
	Total	£m 64.3	£m 14.2	£m 32.0	£m 17.7		

Table 3.1: Consumption effects: Detailed results table for 45p minimum price (scenario 5)

Males and Females Harm Reductions						
Absolute change			Scotland 11+	Moderate 18+	Hazardous 11+	Harmful 11+
Health Changes in Year 1	Deaths	Chronic	-16	0	-6	-10
		Acute	-20	-6	-7	-6
		Total	-36	-7	-13	-16
	Illnesses	Chronic	-162	-11	-47	-104
		Acute	-550	-177	-177	-195
		Total	-712	-188	-224	-299
	Admissions	Chronic	-318	-20	-88	-211
		Acute	-633	-201	-197	-232
		Total	-951	-221	-284	-443
	QALYs per annum			-207	-56	-63
Value of 'saved' QALYs			-10,364,703	-2,823,615	-3,152,278	-4,351,994
Cost (£)	Chronic	-915,228	-72,730	-282,388	-559,807	
	Acute	-3,079,219	-976,740	-976,053	-1,115,123	
	Total (£)	-3,994,447	-1,049,470	-1,258,441	-1,674,930	
Health Changes per annum in Year 10	Deaths p.a.	Chronic	-175	-2	-68	-106
		Acute	-21	-7	-9	-6
		Total	-196	-8	-76	-112
	Illnesses p.a.	Chronic	-1,728	-109	-517	-1,101
		Acute	-580	-182	-212	-185
		Total	-2,308	-291	-729	-1,286
	Admissions p.a.	Chronic	-3,393	-193	-956	-2,243
		Acute	-660	-206	-232	-220
		Total	-4,053	-399	-1,189	-2,463
	QALYs per annum			-1,291	-269	-431
Cost (£)	Chronic	-9,635,796	-736,864	-3,062,553	-5,835,160	
	Acute	-3,240,638	-1,006,915	-1,164,932	-1,058,103	
	Total (£)	-12,876,434	-1,743,779	-4,227,484	-6,893,262	
Cumulative Health Change over 10 yrs	Discounted QALYs		-6,022	-1,232	-1,988	-2,795
	Discounted Costs		-69,721,902	-11,774,450	-22,638,840	-35,210,425
	Value of Discounted QALYs		-301,113,968	-61,591,358	-99,421,076	-139,744,758
	Total Value of Health Changes		-370,835,871	-73,365,808	-122,059,917	-174,955,183
Crime Changes per annum	Volume	Violent	-313	-72	-87	-149
		Damage	-650	-132	-173	-328
		Theft/Oth	-1,198	-197	-295	-686
		Total	-2,160	-401	-554	-1,163
	Cost (£)	Violent	-898,459	-201,073	-242,597	-438,973
		Damage	-563,688	-114,704	-149,716	-284,570
		Theft/Oth	-321,002	-47,075	-75,603	-193,451
		Total (£)	-1,783,149	-362,851	-467,916	-916,993
	QALYs	Violent	-16	-4	-4	-8
		Damage	0	0	0	0
Theft/Oth		0	0	0	0	
Total		-16	-4	-4	-8	
Value of 'saved' QALYs			-1,327,342	-313,212	-358,925	-634,072
Employment Changes per annum	Volume	Absence days	-19,646	-6,048	-5,066	-8,464
		Unempl people	-909	0	0	-909
	Cost (£)	Absence	-1,834,588	-565,169	-450,572	-817,002
		Unempl	-23,211,625	0	0	-23,211,625
Total (£)			-25,046,212	-565,169	-450,572	-24,028,626
Summary Financial Value Harm Reduction Year 1	Health Costs (£)		-3,994,447	-1,049,470	-1,258,441	-1,674,930
	Crime Costs (£)		-1,783,149	-362,851	-467,916	-916,993
	Employment Costs (£)		-25,046,212	-565,169	-450,572	-24,028,626
	Total Direct Costs (£)		-30,823,809	-1,977,491	-2,176,929	-26,620,550
	Health QALYs (£)		-10,364,703	-2,823,615	-3,152,278	-4,351,994
	Crime QALYs (£)		-1,327,342	-313,212	-358,925	-634,072
	Total Societal Value (£)		-42,515,854	-5,114,317	-5,688,133	-31,606,616
Cumul 10 year Summary Financial Value Harm Reduction	Health Costs (£)		-69,721,902	-11,774,450	-22,638,840	-35,210,425
	Crime Costs (£)		-14,829,749	-3,017,690	-3,891,472	-7,626,271
	Employment Costs (£)		-208,299,462	-4,700,290	-3,747,232	-199,836,602
	Total Direct Costs (£)		-292,851,113	-19,492,430	-30,277,544	-242,673,297
	Health QALYs (£)		-301,113,968	-61,591,358	-99,421,076	-139,744,758
	Crime QALYs (£)		-12,240,994	-2,888,500	-3,310,073	-5,847,530
	Total Societal Value (£)		-606,206,075	-83,972,288	-133,008,694	-388,265,585

Table 3.2: Harm effects: Detailed results table for 45p minimum price (scenario 5)

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 (note that the total off-trade discount ban policy is not the same as the quantity-based discount ban implemented in Scotland in October 2011). 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 -3.0%. Consumption is estimated to reduce by 21.9 units per drinker per year. **Consumption changes are greatest for harmful drinkers (-147.3 units per year). Moderate drinkers are affected, but to a lesser degree in absolute terms (-6.4 units per year).**

Effects on health are estimated to be substantial with alcohol-attributable deaths estimated to reduce by approximately 33 within the first year of implementation and a full effect after 10 years of around 169 per annum. Deaths are distributed differentially across the groups, with approximately 10 saved amongst moderate drinkers, 88 amongst hazardous drinkers and 71 amongst harmful drinkers. Alcohol-attributable morbidity also decreases with an estimated reduction of 542 acute and 135 chronic illnesses in year 1. Hospital admissions are estimated to reduce by around 885 in year 1, and a full effect after 10 years of 3,398 avoided admissions per annum. Healthcare service costs are estimated to reduce by £3.8m in year 1, with a QALY gain valued at £10.0m.

Crime is estimated to fall by 1,915 offences per annum. Almost 28% of this annual reduction is amongst harmful drinkers, with approximately another 30% amongst hazardous drinkers. **The harm avoided in terms of victim quality of life is valued at £1.2m per year. Direct costs of crime are estimated to decrease by £1.6m per year.**

Workplace harms are estimated to be reduced by 470 fewer people unemployed and 20,231 fewer sick days per year.

The societal value of these harm reductions is estimated at £466m in total over the 10 year period modelled. Over the 10 year period, the estimated societal value of the harm reductions is as follows: NHS cost reductions (£62m), value of QALYs saved (£269m), crime costs saved (£13m), value of crime QALYs saved (£11m) and employment related harms avoided (£110m).

The societal value of harm reductions is distributed differentially across the subgroups, with harmful drinkers accounting for £211m of the total value, hazardous drinkers £151m and moderate drinkers £100m.

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 notable absolute increase in consumption of on-trade beer/cider.

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

- Harmful drinkers: £65 per drinker per annum
- Hazardous drinkers: £24 per drinker per annum
- Moderate drinkers: £5 per drinker per annum.

An overall increased revenue by the retailer (after VAT and duty) is estimated of £50m per annum, split roughly 84:16 between off-trade and on-trade sectors.

Overall revenue to the Treasury (from duty and VAT receipts) is estimated to change by -£5.5m, with VAT increased by £6.6m and duty decreased by £12.1m.

Males and Females									
Consumption Patterns			Scotland 11+	Moderate 18+	Hazardous 11+	Harmful 11+			
Baseline									
Mean consumption per person per week n people			11.24	4.79	26.99	72.91			
			4,523,448	3,218,772	794,079	181,408			
Mean consumption per drinker per week n drinkers			13.80	5.98	26.99	72.91			
			3,683,040	2,581,232	794,079	181,408			
% binge (>8 males, >6 females)			20.4%	12.0%	50.4%	70.3%			
Mean scale of binge if binge occurs (units)			14.1	12.2	13.9	21.9			
Volume sales (units per drinker per year)	Off-trade	Beer	121.2	33.4	197.9	1,097.2			
		Wine	207.5	85.5	472.2	894.5			
		Spirit	123.6	47.9	255.3	695.5			
		RTD	6.2	2.0	7.1	54.0			
	On-trade	Beer	172.6	80.3	341.6	807.2			
		Wine	33.5	25.6	57.7	48.8			
		Spirit	41.7	34.2	55.9	87.9			
		RTD	13.4	2.8	20.0	116.7			
	Total			719.6	311.7	1,407.6	3,801.8		
	Value sales (£ per drinker per year)	Off-trade	Beer	£ 48	£ 16	£ 81	£ 396		
Wine			£ 105	£ 45	£ 235	£ 449			
Spirit			£ 57	£ 23	£ 118	£ 294			
RTD			£ 5	£ 2	£ 6	£ 41			
On-trade		Beer	£ 193	£ 99	£ 362	£ 852			
		Wine	£ 48	£ 36	£ 85	£ 65			
		Spirit	£ 82	£ 71	£ 99	£ 167			
		RTD	£ 27	£ 6	£ 41	£ 240			
Total			£ 566	£ 298	£ 1,027	£ 2,504			
Absolute change									
Mean consumption per person per week			-0.34	-0.10	-0.89	-2.82			
Mean consumption per drinker per week			-0.42	-0.12	-0.89	-2.82			
% change in mean consumption			-3.0%	-2.0%	-3.3%	-3.9%			
Change in volume of consumption (units per drinker per year)	Off-trade	Beer	-7.82	-1.30	-12.91	-83.00			
		Wine	-12.96	-4.60	-31.55	-57.51			
		Spirit	-3.42	-1.11	-7.67	-19.68			
		RTD	-0.16	-0.03	-0.17	-1.72			
	On-trade	Beer	2.31	0.57	5.56	14.08			
		Wine	0.02	0.01	0.06	0.05			
		Spirit	0.12	0.08	0.20	0.28			
		RTD	0.02	0.00	0.03	0.22			
	Total			-21.88	-6.38	-46.45	-147.27		
	Change in £ value of purchases (sales) (£ per drinker per year)	Off-trade	Beer	£2.37	£0.82	£3.66	£19.87		
Wine			£5.37	£2.76	£10.86	£20.97			
Spirit			£1.19	£0.55	£2.35	£5.76			
RTD			£0.19	£0.07	£0.19	£1.69			
On-trade		Beer	£2.65	£0.73	£6.26	£15.73			
		Wine	£0.04	£0.01	£0.11	£0.08			
		Spirit	£0.22	£0.17	£0.33	£0.52			
		RTD	£0.05	£0.01	£0.06	£0.45			
Total			£12.08	£5.13	£23.82	£65.06			
Effect of policy on "pocket" if drinkers did not change consumption (£ per drinker per year)		Off-trade	Beer	£5.70	£1.46	£9.29	£53.33		
	Wine		£13.08	£5.61	£29.31	£54.96			
	Spirit		£2.90	£1.13	£6.25	£14.92			
	RTD		£0.33	£0.11	£0.35	£3.09			
	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			
	Total			£22.01	£8.31	£45.20	£126.30		
	Total change in retailer received £m (after VAT+Duty)	Off-trade	£m	41.9	£m	12.0	£m	17.8	£m
On-trade		£m	8.1	£m	1.8	£m	4.0	£m	2.2
Total		£m	50.0	£m	13.8	£m	21.7	£m	13.9
Total Change in VAT & Duty Received	Off-trade	£m	-8.3	£m	-1.1	£m	-4.2	£m	-2.9
	On-trade	£m	2.8	£m	0.6	£m	1.4	£m	0.8
	Total	£m	-5.5	£m	-0.6	£m	-2.8	£m	-2.1
% change in spend / sales	Off-trade		+4.2%		+4.9%		+3.9%		+4.1%
	On-trade		+0.8%		+0.4%		+1.2%		+1.3%
	Total		+2.1%		+1.7%		+2.3%		+2.6%
Total Change Pop'n Spend (Sales)	Off-trade	£m	33.6	£m	10.9	£m	13.5	£m	8.8
	On-trade	£m	10.9	£m	2.4	£m	5.4	£m	3.0
	Total	£m	44.5	£m	13.2	£m	18.9	£m	11.8

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

Males and Females Harm Reductions						
Absolute change			Scotland 11+	Moderate 18+	Hazardous 11+	Harmful 11+
Health Changes in Year 1	Deaths	Chronic	-14	0	-7	-7
		Acute	-19	-8	-8	-4
		Total	-33	-8	-15	-10
	Illnesses	Chronic	-135	-13	-54	-68
		Acute	-542	-223	-202	-111
		Total	-677	-236	-256	-179
	Admissions	Chronic	-262	-23	-100	-139
		Acute	-623	-258	-228	-130
		Total	-885	-281	-328	-269
	QALYs per annum		-199	-73	-74	-50
Value of 'saved' QALYs		-9,965,478	-3,658,698	-3,691,862	-2,503,688	
Cost (£)	Chronic	-770,156	-83,366	-325,614	-360,243	
	Acute	-3,020,966	-1,240,822	-1,117,623	-628,203	
	Total (£)	-3,791,122	-1,324,188	-1,443,238	-988,446	
Health Changes per annum in Year 10	Deaths p.a.	Chronic	-148	-2	-79	-67
		Acute	-21	-8	-9	-4
		Total	-169	-10	-88	-71
	Illnesses p.a.	Chronic	-1,419	-130	-605	-683
		Acute	-576	-228	-234	-109
		Total	-1,995	-358	-838	-792
	Admissions p.a.	Chronic	-2,744	-232	-1,112	-1,400
		Acute	-655	-262	-259	-126
		Total	-3,398	-493	-1,371	-1,526
	QALYs per annum		-1,128	-277	-481	-368
Cost (£)	Chronic	-8,036,962	-879,346	-3,585,607	-3,568,454	
	Acute	-3,203,249	-1,265,824	-1,288,659	-616,328	
	Total (£)	-11,240,212	-2,145,171	-4,874,266	-4,184,782	
Cumulative Health Change over 10 yrs	Discounted QALYs		-5,385	-1,388	-2,255	-1,722
	Discounted Costs		-62,389,754	-14,514,457	-25,919,106	-21,658,866
	Value of Discounted QALYs		-269,271,148	-69,388,129	-112,755,891	-86,089,292
	Total Value of Health Changes		-331,660,902	-83,902,587	-138,674,997	-107,748,158
Crime Changes per annum	Volume	Violent	-292	-115	-93	-66
		Damage	-596	-212	-183	-148
		Theft/Oth	-1,027	-338	-309	-322
		Total	-1,915	-664	-584	-536
	Cost (£)	Violent	-828,409	-318,377	-267,051	-193,057
		Damage	-516,875	-183,436	-158,658	-128,013
		Theft/Oth	-268,462	-83,479	-77,391	-92,794
		Total (£)	-1,613,746	-585,292	-503,101	-413,864
	QALYs	Violent	-15	-6	-5	-3
		Damage	0	0	0	0
Theft/Oth		0	0	0	0	
Total		-15	-6	-5	-3	
Value of 'saved' QALYs		-1,232,357	-486,899	-408,234	-270,039	
Employment Changes per annum	Volume	Absence days	-20,231	-9,474	-6,294	-4,234
		Unempl people	-470	0	0	-470
	Cost (£)	Absence	-1,838,680	-861,113	-578,408	-392,923
		Unempl	-11,325,158	0	0	-11,325,158
Total (£)		-13,163,839	-861,113	-578,408	-11,718,082	
Summary Financial Value Harm Reduction Year 1	Health Costs (£)		-3,791,122	-1,324,188	-1,443,238	-988,446
	Crime Costs (£)		-1,613,746	-585,292	-503,101	-413,864
	Employment Costs (£)		-13,163,839	-861,113	-578,408	-11,718,082
	Total Direct Costs (£)		-18,568,707	-2,770,593	-2,524,747	-13,120,392
	Health QALYs (£)		-9,965,478	-3,658,698	-3,691,862	-2,503,688
	Crime QALYs (£)		-1,232,357	-486,899	-408,234	-270,039
	Total Societal Value (£)		-29,766,542	-6,916,189	-6,624,843	-15,894,118
Cumul 10 year Summary Financial Value Harm Reduction	Health Costs (£)		-62,389,754	-14,514,457	-25,919,106	-21,658,866
	Crime Costs (£)		-13,420,891	-4,867,641	-4,184,094	-3,441,945
	Employment Costs (£)		-109,478,451	-7,161,536	-4,810,388	-97,454,661
	Total Direct Costs (£)		-185,289,096	-26,543,635	-34,913,588	-122,555,472
	Health QALYs (£)		-269,271,148	-69,388,129	-112,755,891	-86,089,292
	Crime QALYs (£)		-11,365,022	-4,490,269	-3,764,805	-2,490,350
	Total Societal Value (£)		-465,925,266	-100,422,033	-151,434,283	-211,135,114

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

3.1.3 Example policy analysis: 45p minimum price combined with off-trade discount ban (scenario 16)

This scenario assumes that a 45p minimum price policy and a total ban on off-trade discounting are implemented simultaneously. Table 3.5 shows the results for consumption changes, consumer spending and sales for 45p 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 -6.0%. Consumption is estimated to reduce by 43.0 units per drinker per year. **Consumption changes are greatest for harmful drinkers (-376.7 units per year). Moderate drinkers are affected, but to a far lesser degree in absolute terms (-10.4 units per year).**

Effects on health are estimated to be substantial with alcohol-attributable deaths estimated to reduce by approximately 63 within the first year of implementation and a full effect after 10 years of around 327 per annum. Deaths are distributed differentially across the groups, with approximately 17 saved amongst moderate drinkers, 151 amongst hazardous drinkers and 159 amongst harmful drinkers. Alcohol-attributable morbidity also decreases with an estimated reduction of 1,003 acute and 263 chronic illnesses in year 1. Hospital admissions are estimated to reduce by around 1,664 in year 1, and a full effect after 10 years of 6,627 avoided admissions per annum. Healthcare service costs are estimated to reduce by £7.1m in year 1, with a QALY gain valued at £18.6m.

Crime is estimated to fall by 3,628 offences overall. Around 41% of this annual reduction is amongst harmful drinkers, with approximately 28% amongst hazardous drinkers. **The harm avoided in terms of victim quality of life is valued at £2.3m per year. Direct costs of crime are estimated to decrease by £3.0m per year.**

Workplace harms are estimated to be reduced by 1,182 fewer people unemployed and 36,500 fewer sick days per year.

The societal value of these harm reductions is estimated at £952m in total over the 10 year period modelled. Over the 10 year period, the estimated societal value of the harm reductions is as follows: NHS cost reductions (£119m), value of QALYs saved (£514m), crime costs saved (£25m), value of crime QALYs saved (£21m) and employment related harms avoided (£273m).

The societal value of harm reductions is distributed differentially across the subgroups, with harmful drinkers accounting for £517m of the total value, hazardous drinkers £262m and moderate drinkers £169m.

Absolute reductions in consumption are estimated to be largest in off-trade beer/cider, off-trade wine, 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: £132 per drinker per annum
- Hazardous drinkers: £55 per drinker per annum
- Moderate drinkers: £9 per drinker per annum.

The overall increase in revenue by the retailer (after VAT and duty) is estimated to be £103m per annum, split roughly 75:25 between off-trade and on-trade sectors.

Overall revenue to the Treasury (from duty and VAT receipts) is estimated to change by -£10.4m, with VAT increased by £13.8m and duty decreased by £24.2m.

Males and Females									
Consumption Patterns			Scotland	Moderate	Hazardous	Harmful			
Baseline			11+	18+	11+	11+			
Mean consumption per person per week n people			11.24	4.79	26.99	72.91			
			4,523,448	3,218,772	794,079	181,408			
Mean consumption per drinker per week n drinkers			13.80	5.98	26.99	72.91			
			3,683,040	2,581,232	794,079	181,408			
% binge (>8 males, >6 females)			20.4%	12.0%	50.4%	70.3%			
Mean scale of binge if binge occurs (units)			14.1	12.2	13.9	21.9			
Volume sales (units per drinker per year)	Off-trade	Beer	121.2	33.4	197.9	1,097.2			
		Wine	207.5	85.5	472.2	894.5			
		Spirit	123.6	47.9	255.3	695.5			
		RTD	6.2	2.0	7.1	54.0			
	On-trade	Beer	172.6	80.3	341.6	807.2			
		Wine	33.5	25.6	57.7	48.8			
		Spirit	41.7	34.2	55.9	87.9			
		RTD	13.4	2.8	20.0	116.7			
	Total			719.6	311.7	1,407.6	3,801.8		
	Value sales (£ per drinker per year)	Off-trade	Beer	£ 48	£ 16	£ 81	£ 396		
Wine			£ 105	£ 45	£ 235	£ 449			
Spirit			£ 57	£ 23	£ 118	£ 294			
RTD			£ 5	£ 2	£ 6	£ 41			
On-trade		Beer	£ 193	£ 99	£ 362	£ 852			
		Wine	£ 48	£ 36	£ 85	£ 65			
		Spirit	£ 82	£ 71	£ 99	£ 167			
		RTD	£ 27	£ 6	£ 41	£ 240			
Total			£ 566	£ 298	£ 1,027	£ 2,504			
Absolute change									
Mean consumption per person per week			-0.67	-0.16	-1.51	-7.22			
Mean consumption per drinker per week			-0.82	-0.20	-1.51	-7.22			
% change in mean consumption			-6.0%	-3.3%	-5.6%	-9.9%			
Change in volume of consumption (units per drinker per year)	Off-trade	Beer	-23.57	-3.01	-36.82	-273.47			
		Wine	-15.39	-6.19	-36.00	-64.46			
		Spirit	-11.65	-3.17	-24.18	-84.77			
		RTD	-0.14	-0.03	-0.16	-1.65			
	On-trade	Beer	7.36	1.74	17.83	46.11			
		Wine	0.08	0.01	0.29	0.24			
		Spirit	0.28	0.27	0.21	0.73			
		RTD	0.07	0.01	0.10	0.60			
	Total			-42.96	-10.35	-78.73	-376.66		
	Change in £ value of purchases (sales) (£ per drinker per year)	Off-trade	Beer	£2.61	£1.25	£4.23	£16.09		
Wine			£10.06	£4.04	£23.00	£44.70			
Spirit			£2.83	£1.31	£5.38	£14.92			
RTD			£0.21	£0.08	£0.21	£1.75			
On-trade		Beer	£8.59	£2.20	£20.79	£51.36			
		Wine	£0.14	£0.03	£0.49	£0.38			
		Spirit	£0.62	£0.53	£0.77	£1.34			
		RTD	£0.14	£0.02	£0.22	£1.24			
Total			£25.20	£9.45	£55.09	£131.77			
Effect of policy on "pocket" if drinkers did not change consumption (£ per drinker per year)		Off-trade	Beer	£13.80	£2.75	£21.82	£144.23		
	Wine		£18.36	£7.59	£41.90	£78.54			
	Spirit		£8.62	£2.94	£17.47	£55.84			
	RTD		£0.33	£0.11	£0.35	£3.09			
	On-trade	Beer	£0.13	£0.00	£0.58	£0.00			
		Wine	£0.01	£0.01	£0.00	£0.00			
		Spirit	£0.04	£0.00	£0.18	£0.00			
		RTD	£0.00	£0.00	£0.00	£0.00			
	Total			£41.28	£13.39	£82.30	£281.69		
	Total change in retailer received £m (after VAT+Duty)	Off-trade	£m	77.3	£m	19.6	£m	33.9	£m
On-trade		£m	26.0	£m	5.4	£m	13.1	£m	7.3
Total		£m	103.2	£m	25.0	£m	47.1	£m	30.4
Total Change in VAT & Duty Received	Off-trade	£m	-19.4	£m	-2.4	£m	-7.9	£m	-9.1
	On-trade	£m	9.0	£m	1.8	£m	4.5	£m	2.6
	Total	£m	-10.4	£m	-0.6	£m	-3.3	£m	-6.5
% change in spend / sales	Off-trade		+7.3%		+7.8%		+7.5%		+6.6%
	On-trade		+2.7%		+1.3%		+3.8%		+4.1%
	Total		+4.4%		+3.2%		+5.4%		+5.3%
Total Change Pop'n Spend (Sales)	Off-trade	£m	57.9	£m	17.2	£m	26.1	£m	14.1
	On-trade	£m	34.9	£m	7.2	£m	17.7	£m	9.9
	Total	£m	92.8	£m	24.4	£m	43.7	£m	23.9

Table 3.5: Consumption effects: Detailed results table for 45p minimum price plus total off-trade discount ban (scenario 16)

Males and Females Harm Reductions			Scotland 11+	Moderate 18+	Hazardous 11+	Harmful 11+
Absolute change						
Health Changes in Year 1	Deaths	Chronic	-27	-1	-12	-14
		Acute	-36	-13	-14	-9
		Total	-63	-14	-26	-23
	Illnesses	Chronic	-263	-22	-94	-147
		Acute	-1,003	-371	-354	-272
		Total	-1,266	-393	-448	-419
	Admissions	Chronic	-511	-39	-173	-298
		Acute	-1,153	-426	-396	-321
		Total	-1,664	-465	-570	-619
	QALYs per annum		-371	-120	-127	-121
Value of 'saved' QALYs		-18,560,999	-6,015,283	-6,374,124	-6,032,041	
Cost (£)	Chronic	-1,497,216	-145,068	-562,685	-788,285	
	Acute	-5,596,943	-2,054,730	-1,953,379	-1,545,988	
	Total (£)	-7,094,160	-2,199,798	-2,516,064	-2,334,273	
Health Changes per annum in Year 10	Deaths p.a.	Chronic	-288	-3	-134	-150
		Acute	-39	-14	-17	-9
		Total	-327	-17	-151	-159
	Illnesses p.a.	Chronic	-2,787	-223	-1,041	-1,523
		Acute	-1,066	-380	-417	-262
		Total	-3,853	-603	-1,457	-1,785
	Admissions p.a.	Chronic	-5,416	-395	-1,917	-3,102
		Acute	-1,211	-434	-460	-308
		Total	-6,627	-829	-2,377	-3,411
	QALYs per annum		-2,172	-497	-840	-833
Cost (£)	Chronic	-15,730,594	-1,506,646	-6,169,658	-8,049,788	
	Acute	-5,934,743	-2,107,418	-2,294,507	-1,492,325	
	Total (£)	-21,665,338	-3,614,064	-8,464,165	-9,542,113	
Cumulative Health Change over 10 yrs	Discounted QALYs		-10,280	-2,405	-3,918	-3,931
	Discounted Costs		-119,078,925	-24,381,953	-45,136,073	-49,189,302
	Value of Discounted QALYs		-514,004,270	-120,242,825	-195,906,372	-196,538,509
	Total Value of Health Changes		-633,083,196	-144,624,778	-241,042,445	-245,727,811
Crime Changes per annum	Volume	Violent	-536	-168	-159	-187
		Damage	-1,104	-308	-314	-416
		Theft/Oth	-1,987	-486	-542	-886
		Total	-3,628	-962	-1,015	-1,489
	Cost (£)	Violent	-1,529,081	-466,342	-450,486	-551,096
		Damage	-957,158	-267,302	-272,105	-360,479
		Theft/Oth	-530,115	-119,767	-139,168	-252,544
		Total (£)	-3,016,354	-853,411	-861,759	-1,164,119
	QALYs	Violent	-28	-9	-8	-10
		Damage	0	0	0	0
Theft/Oth		0	0	0	0	
Total		-28	-9	-8	-10	
Value of 'saved' QALYs		-2,259,236	-716,097	-675,777	-785,448	
Employment Changes per annum	Volume	Absence days	-36,500	-14,420	-10,559	-11,243
		Unempl people	-1,182	0	0	-1,182
	Cost (£)	Absence	-3,349,662	-1,320,737	-954,356	-1,067,030
		Unempl (£)	-29,502,264	0	0	-29,502,264
Total (£)		-32,851,926	-1,320,737	-954,356	-30,569,294	
Summary Financial Value Harm Reduction Year 1	Health Costs (£)		-7,094,160	-2,199,798	-2,516,064	-2,334,273
	Crime Costs (£)		-3,016,354	-853,411	-861,759	-1,164,119
	Employment Costs (£)		-32,851,926	-1,320,737	-954,356	-30,569,294
	Total Direct Costs (£)		-42,962,440	-4,373,946	-4,332,180	-34,067,687
	Health QALYs (£)		-18,560,999	-6,015,283	-6,374,124	-6,032,041
	Crime QALYs (£)		-2,259,236	-716,097	-675,777	-785,448
Total Societal Value (£)		-63,782,675	-11,105,326	-11,382,081	-40,885,176	
Cumul 10 year Summary Financial Value Harm Reduction	Health Costs (£)		-119,078,925	-24,381,953	-45,136,073	-49,189,302
	Crime Costs (£)		-25,085,825	-7,097,484	-7,166,913	-9,681,518
	Employment Costs (£)		-273,216,503	-10,984,050	-7,937,005	-254,232,757
	Total Direct Costs (£)		-417,381,254	-42,463,487	-60,239,991	-313,103,577
	Health QALYs (£)		-514,004,270	-120,242,825	-195,906,372	-196,538,509
	Crime QALYs (£)		-20,835,090	-6,603,980	-6,232,140	-7,243,549
Total Societal Value (£)		-952,220,614	-169,310,293	-262,378,504	-516,885,635	

Table 3.6: Harm effects: Detailed results table for 45p minimum price plus total off-trade discount ban (scenario 16)

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)	
	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%	-1.9	+0.7	+0.1	+0.0	-1.1	+3.8	+1.9	-0.1	+0.7	+6.3	+0.3%	+1.70	+1.17
2 Minimum price 30p	-0.4%	-3.9	+1.2	+0.2	+0.0	-2.5	+7.9	+4.2	-0.6	+1.4	+13.0	+0.6%	+3.53	+2.69
3 Minimum price 35p	-0.8%	-6.9	+1.5	-0.7	+0.0	-6.0	+15.4	+8.0	-2.0	+2.7	+24.0	+1.2%	+6.52	+5.98
4 Minimum price 40p	-1.9%	-10.2	+0.8	-4.0	+0.0	-13.4	+29.2	+13.7	-5.7	+4.7	+41.8	+2.0%	+11.36	+12.89
5 Minimum price 45p	-3.5%	-14.1	-2.5	-8.9	+0.1	-25.3	+48.0	+21.1	-12.1	+7.3	+64.3	+3.1%	+17.46	+23.95
6 Minimum price 50p	-5.7%	-18.6	-7.7	-14.7	+0.1	-40.8	+68.3	+29.3	-20.6	+10.1	+87.2	+4.2%	+23.67	+38.21
7 Minimum price 55p	-8.3%	-23.6	-15.0	-21.2	+0.1	-59.7	+88.2	+38.3	-31.6	+13.2	+108.1	+5.2%	+29.36	+55.37
8 Minimum price 60p	-11.1%	-28.7	-23.5	-28.2	+0.1	-80.2	+104.6	+47.7	-44.5	+16.5	+124.3	+6.0%	+33.74	+74.20
9 Minimum price 65p	-14.0%	-32.2	-32.9	-35.6	+0.2	-100.5	+118.3	+57.6	-58.0	+19.8	+137.7	+6.6%	+37.40	+94.41
10 Minimum price 70p	-16.9%	-35.5	-43.0	-43.2	+0.1	-121.6	+126.5	+68.5	-72.9	+23.3	+145.4	+7.0%	+39.49	+115.74
11 Total off-trade discount ban	-3.0%	-5.5	-12.9	-3.3	-0.1	-21.9	+41.9	+8.1	-8.3	+2.8	+44.5	+2.1%	+12.08	+22.01
12 Minimum price 25p + total off-t discount ban	-3.2%	-7.1	-12.4	-3.2	-0.1	-22.9	+44.9	+9.8	-8.6	+3.4	+49.5	+2.4%	+13.45	+23.03
13 Minimum price 30p + total off-t discount ban	-3.4%	-8.7	-12.1	-3.2	-0.1	-24.2	+47.9	+11.6	-9.0	+4.0	+54.5	+2.6%	+14.79	+24.25
14 Minimum price 35p + total off-t discount ban	-3.7%	-11.0	-12.0	-4.0	-0.1	-27.0	+53.4	+14.6	-10.3	+5.0	+62.7	+3.0%	+17.02	+26.83
15 Minimum price 40p + total off-t discount ban	-4.6%	-13.4	-12.7	-7.0	-0.1	-33.2	+63.8	+19.5	-13.7	+6.8	+76.4	+3.7%	+20.75	+32.43
16 Minimum price 45p + total off-t discount ban	-6.0%	-16.2	-15.3	-11.4	-0.1	-43.0	+77.3	+26.0	-19.4	+9.0	+92.8	+4.4%	+25.20	+41.28
17 Minimum price 50p + total off-t discount ban	-7.8%	-19.9	-19.3	-16.6	-0.1	-55.8	+91.3	+33.2	-27.2	+11.5	+108.9	+5.2%	+29.56	+52.83
18 Minimum price 55p + total off-t discount ban	-10.0%	-24.3	-25.1	-22.4	-0.0	-71.9	+104.9	+41.4	-37.3	+14.3	+123.3	+5.9%	+33.48	+67.28
19 Minimum price 60p + total off-t discount ban	-12.5%	-29.0	-32.1	-29.0	-0.0	-90.0	+116.1	+50.2	-49.4	+17.4	+134.2	+6.4%	+36.44	+83.81
20 Minimum price 65p + total off-t discount ban	-15.1%	-32.2	-40.5	-36.2	-0.0	-108.9	+126.0	+59.7	-62.5	+20.6	+143.8	+6.9%	+39.03	+102.47
21 Minimum price 70p + total off-t discount ban	-17.9%	-35.4	-49.8	-43.7	-0.0	-128.9	+131.2	+70.3	-77.1	+23.9	+148.4	+7.1%	+40.28	+122.70

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	+2	-0.0	+0.1	+0.1	+0.0	-4	-0.1	+0.1	-0.1	+0.1	-0.0	-0.0	-0.1	-0.1	-0.0	-0.7	-0.1
2 Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-13	-0.2	+0.1	-0.3	-0.2	-0.0	-0.1	-0.1	-0.2	-0.0	-1.9	-0.2
3 Minimum price 35p	-5	-0.0	-0.1	-0.1	-0.0	-38	-0.4	-0.0	-0.8	-1.1	-0.1	-0.2	-0.3	-0.6	-0.0	-4.5	-0.3
4 Minimum price 40p	-17	-0.1	-0.3	-0.5	-0.1	-99	-0.9	-0.3	-2.1	-3.0	-0.2	-0.3	-0.7	-1.2	-0.0	-10.2	-0.6
5 Minimum price 45p	-36	-0.2	-0.5	-1.0	-0.2	-196	-1.7	-0.6	-4.1	-6.0	-0.3	-0.7	-1.2	-2.2	-0.0	-19.6	-0.9
6 Minimum price 50p	-60	-0.3	-0.9	-1.6	-0.3	-318	-2.7	-1.0	-6.5	-9.8	-0.5	-1.1	-1.9	-3.5	-0.0	-32.3	-1.3
7 Minimum price 55p	-89	-0.4	-1.4	-2.3	-0.5	-464	-3.9	-1.5	-9.3	-14.4	-0.8	-1.6	-2.8	-5.1	-0.0	-48.2	-1.7
8 Minimum price 60p	-120	-0.5	-1.9	-3.1	-0.7	-615	-5.2	-2.0	-12.3	-19.3	-1.0	-2.1	-3.7	-6.8	-0.1	-65.9	-2.0
9 Minimum price 65p	-151	-0.6	-2.4	-3.9	-0.9	-759	-6.3	-2.6	-15.2	-24.0	-1.3	-2.7	-4.7	-8.6	-0.1	-84.0	-2.3
10 Minimum price 70p	-182	-0.7	-3.0	-4.8	-1.1	-902	-7.5	-3.2	-18.1	-28.8	-1.6	-3.3	-5.7	-10.5	-0.1	-102.8	-2.6
11 Total off-trade discount ban	-33	-0.1	-0.5	-0.9	-0.2	-169	-1.4	-0.6	-3.4	-5.4	-0.3	-0.6	-1.0	-1.9	-0.0	-20.2	-0.5
12 Minimum price 25p + total off-t discount ban	-34	-0.1	-0.6	-0.9	-0.2	-175	-1.5	-0.6	-3.5	-5.6	-0.3	-0.6	-1.1	-2.0	-0.0	-20.9	-0.5
13 Minimum price 30p + total off-t discount ban	-35	-0.1	-0.6	-0.9	-0.2	-183	-1.6	-0.6	-3.7	-5.8	-0.3	-0.7	-1.1	-2.1	-0.0	-21.9	-0.6
14 Minimum price 35p + total off-t discount ban	-39	-0.2	-0.6	-1.0	-0.2	-202	-1.7	-0.7	-4.1	-6.4	-0.4	-0.7	-1.3	-2.4	-0.0	-24.1	-0.7
15 Minimum price 40p + total off-t discount ban	-48	-0.2	-0.8	-1.3	-0.3	-249	-2.1	-0.8	-5.1	-7.9	-0.4	-0.9	-1.6	-2.9	-0.0	-28.8	-0.9
16 Minimum price 45p + total off-t discount ban	-63	-0.3	-1.0	-1.7	-0.4	-327	-2.8	-1.1	-6.6	-10.3	-0.5	-1.1	-2.0	-3.6	-0.0	-36.5	-1.2
17 Minimum price 50p + total off-t discount ban	-83	-0.3	-1.3	-2.2	-0.5	-427	-3.6	-1.4	-8.6	-13.4	-0.7	-1.4	-2.6	-4.7	-0.0	-46.8	-1.5
18 Minimum price 55p + total off-t discount ban	-107	-0.4	-1.7	-2.8	-0.6	-548	-4.6	-1.8	-11.0	-17.2	-0.9	-1.9	-3.3	-6.1	-0.0	-60.2	-1.8
19 Minimum price 60p + total off-t discount ban	-134	-0.5	-2.2	-3.5	-0.8	-681	-5.7	-2.3	-13.6	-21.5	-1.1	-2.3	-4.1	-7.6	-0.1	-75.6	-2.1
20 Minimum price 65p + total off-t discount ban	-162	-0.6	-2.6	-4.2	-1.0	-811	-6.8	-2.9	-16.2	-25.9	-1.4	-2.9	-5.0	-9.3	-0.1	-92.2	-2.4
21 Minimum price 70p + total off-t discount ban	-192	-0.7	-3.2	-5.0	-1.1	-946	-7.9	-3.4	-19.0	-30.4	-1.7	-3.4	-6.0	-11.1	-0.1	-109.9	-2.6

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 ('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)
Baseline alcohol attributable harm (estimated by modelling zero consumption)	+812	+2	+21	+29	+7	+1849	+22	+22	+65	+124	+27	+55	+81	+164	+1	+1125	+5
1 Minimum price 25p	0.2%	-0.3%	0.3%	0.2%	0.3%	-0.2%	-0.3%	0.4%	-0.1%	0.1%	0.0%	0.0%	-0.1%	-0.1%	-0.1%	-0.1%	-1.7%
2 Minimum price 30p	0.0%	-0.7%	0.2%	0.0%	0.1%	-0.7%	-0.7%	0.2%	-0.4%	-0.1%	-0.1%	-0.1%	-0.2%	-0.1%	-0.2%	-0.2%	-3.6%
3 Minimum price 35p	-0.6%	-1.7%	-0.3%	-0.5%	-0.4%	-2.1%	-1.8%	-0.2%	-1.3%	-0.8%	-0.3%	-0.3%	-0.4%	-0.3%	-0.3%	-0.4%	-7.0%
4 Minimum price 40p	-2.1%	-4.2%	-1.2%	-1.6%	-1.4%	-5.4%	-4.1%	-1.3%	-3.2%	-2.4%	-0.6%	-0.6%	-0.8%	-0.7%	-0.6%	-0.9%	-12.4%
5 Minimum price 45p	-4.4%	-8.3%	-2.6%	-3.3%	-2.8%	-10.6%	-7.9%	-2.7%	-6.2%	-4.8%	-1.1%	-1.2%	-1.5%	-1.3%	-1.2%	-1.7%	-19.3%
6 Minimum price 50p	-7.4%	-13.2%	-4.4%	-5.4%	-4.6%	-17.2%	-12.6%	-4.6%	-10.0%	-7.9%	-1.9%	-1.9%	-2.3%	-2.1%	-1.9%	-2.9%	-27.2%
7 Minimum price 55p	-10.9%	-19.0%	-6.5%	-7.9%	-6.9%	-25.1%	-18.1%	-6.9%	-14.4%	-11.6%	-2.8%	-2.8%	-3.4%	-3.1%	-2.8%	-4.3%	-35.5%
8 Minimum price 60p	-14.8%	-24.9%	-8.9%	-10.7%	-9.3%	-33.2%	-23.7%	-9.5%	-18.9%	-15.5%	-3.7%	-3.8%	-4.6%	-4.2%	-3.7%	-5.9%	-43.0%
9 Minimum price 65p	-18.5%	-30.5%	-11.4%	-13.5%	-11.8%	-41.0%	-29.1%	-12.1%	-23.3%	-19.3%	-4.8%	-4.8%	-5.7%	-5.3%	-4.7%	-7.5%	-48.9%
10 Minimum price 70p	-22.4%	-36.2%	-13.9%	-16.3%	-14.4%	-48.8%	-34.5%	-14.9%	-27.8%	-23.2%	-5.8%	-5.9%	-6.9%	-6.4%	-5.8%	-9.1%	-54.6%
11 Total off-trade discount ban	-4.1%	-6.9%	-2.5%	-3.0%	-2.7%	-9.1%	-6.5%	-2.7%	-5.2%	-4.3%	-1.1%	-1.1%	-1.3%	-1.2%	-1.1%	-1.8%	-10.0%
12 Minimum price 25p + total off-t discount ban	-4.2%	-7.2%	-2.6%	-3.1%	-2.8%	-9.5%	-6.8%	-2.7%	-5.4%	-4.5%	-1.1%	-1.1%	-1.3%	-1.2%	-1.1%	-1.9%	-11.5%
13 Minimum price 30p + total off-t discount ban	-4.4%	-7.5%	-2.7%	-3.2%	-2.9%	-9.9%	-7.1%	-2.8%	-5.7%	-4.7%	-1.2%	-1.2%	-1.4%	-1.3%	-1.2%	-2.0%	-13.0%
14 Minimum price 35p + total off-t discount ban	-4.8%	-8.3%	-2.9%	-3.6%	-3.1%	-10.9%	-7.9%	-3.0%	-6.3%	-5.1%	-1.3%	-1.3%	-1.6%	-1.4%	-1.3%	-2.1%	-15.5%
15 Minimum price 40p + total off-t discount ban	-5.9%	-10.2%	-3.6%	-4.4%	-3.8%	-13.5%	-9.8%	-3.7%	-7.8%	-6.3%	-1.5%	-1.6%	-1.9%	-1.7%	-1.6%	-2.6%	-19.7%
16 Minimum price 45p + total off-t discount ban	-7.7%	-13.4%	-4.7%	-5.7%	-5.0%	-17.7%	-12.8%	-4.9%	-10.2%	-8.3%	-2.0%	-2.0%	-2.4%	-2.2%	-2.0%	-3.2%	-25.1%
17 Minimum price 50p + total off-t discount ban	-10.2%	-17.4%	-6.2%	-7.5%	-6.5%	-23.1%	-16.6%	-6.5%	-13.3%	-10.8%	-2.5%	-2.6%	-3.2%	-2.9%	-2.6%	-4.2%	-31.6%
18 Minimum price 55p + total off-t discount ban	-13.2%	-22.2%	-8.0%	-9.6%	-8.4%	-29.6%	-21.2%	-8.5%	-16.9%	-13.9%	-3.3%	-3.3%	-4.1%	-3.7%	-3.3%	-5.3%	-38.6%
19 Minimum price 60p + total off-t discount ban	-16.5%	-27.4%	-10.1%	-12.0%	-10.6%	-36.8%	-26.1%	-10.7%	-20.9%	-17.3%	-4.2%	-4.2%	-5.1%	-4.6%	-4.2%	-6.7%	-45.1%
20 Minimum price 65p + total off-t discount ban	-20.0%	-32.6%	-12.4%	-14.6%	-12.9%	-43.9%	-31.1%	-13.2%	-25.0%	-20.8%	-5.1%	-5.2%	-6.2%	-5.7%	-5.1%	-8.2%	-50.4%
21 Minimum price 70p + total off-t discount ban	-23.6%	-37.9%	-14.8%	-17.3%	-15.3%	-51.1%	-36.2%	-15.8%	-29.2%	-24.4%	-6.1%	-6.2%	-7.3%	-6.7%	-6.1%	-9.8%	-55.8%

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 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	+0.4	-1	-1	-2.3	-2.1	+1.0	-1	-1.2	+2	-1	-1	-19	-19	+7	-1	-12	
2 Minimum price 30p	+0.1	-2	-2	-4.8	-5.1	+3	-2	-4.9	-2	-2	-2	-40	-45	-9	-1	-56	
3 Minimum price 35p	-0.5	-5	-5	-9.0	-10.5	-1.4	-3	-12.3	-12	-4	-4	-75	-94	-53	-3	-150	
4 Minimum price 40p	-2.0	-1.0	-1.0	-15.3	-19.2	-5.1	-7	-25.0	-35	-8	-8	-127	-178	-151	-7	-336	
5 Minimum price 45p	-4.0	-1.8	-1.8	-23.2	-30.8	-10.4	-1.3	-42.5	-70	-15	-15	-193	-293	-301	-12	-606	
6 Minimum price 50p	-6.7	-2.9	-3.0	-32.1	-44.6	-17.2	-2.2	-64.0	-114	-24	-25	-267	-430	-492	-20	-942	
7 Minimum price 55p	-9.9	-4.2	-4.4	-41.6	-60.1	-25.6	-3.2	-88.8	-167	-35	-37	-346	-585	-720	-29	-1,334	
8 Minimum price 60p	-13.4	-5.7	-6.0	-50.0	-75.1	-34.7	-4.3	-114.1	-224	-47	-50	-416	-737	-963	-39	-1,739	
9 Minimum price 65p	-16.9	-7.2	-7.6	-56.4	-88.1	-44.0	-5.4	-137.6	-280	-60	-63	-469	-873	-1,201	-50	-2,123	
10 Minimum price 70p	-20.6	-8.8	-9.3	-62.6	-101.3	-53.6	-6.6	-161.5	-338	-73	-77	-521	-1,009	-1,442	-61	-2,512	
11 Total off-trade discount ban	-3.8	-1.6	-1.8	-11.3	-18.6	-10.0	-1.2	-29.8	-62	-13	-15	-94	-185	-269	-11	-466	
12 Minimum price 25p + total off-t discount ban	-3.9	-1.7	-1.9	-13.3	-20.8	-10.2	-1.3	-32.3	-64	-14	-16	-111	-205	-278	-12	-495	
13 Minimum price 30p + total off-t discount ban	-4.0	-1.8	-2.0	-15.3	-23.1	-10.6	-1.4	-35.1	-67	-15	-17	-127	-225	-290	-13	-528	
14 Minimum price 35p + total off-t discount ban	-4.4	-2.0	-2.2	-18.4	-27.1	-11.7	-1.5	-40.2	-74	-16	-19	-153	-262	-320	-14	-596	
15 Minimum price 40p + total off-t discount ban	-5.4	-2.4	-2.7	-23.3	-33.8	-14.3	-1.8	-49.8	-91	-20	-22	-194	-327	-393	-17	-737	
16 Minimum price 45p + total off-t discount ban	-7.1	-3.0	-3.3	-29.5	-43.0	-18.6	-2.3	-63.8	-119	-25	-28	-245	-417	-514	-21	-952	
17 Minimum price 50p + total off-t discount ban	-9.3	-3.9	-4.3	-36.8	-54.3	-24.2	-2.9	-81.4	-156	-32	-36	-306	-530	-670	-27	-1,227	
18 Minimum price 55p + total off-t discount ban	-12.0	-5.0	-5.5	-44.8	-67.4	-31.3	-3.8	-102.4	-200	-42	-46	-373	-661	-862	-35	-1,558	
19 Minimum price 60p + total off-t discount ban	-15.1	-6.3	-6.9	-52.2	-80.5	-39.3	-4.7	-124.6	-250	-53	-57	-434	-794	-1,075	-44	-1,913	
20 Minimum price 65p + total off-t discount ban	-18.4	-7.8	-8.3	-58.1	-92.5	-47.8	-5.8	-146.2	-302	-65	-69	-483	-919	-1,293	-54	-2,265	
21 Minimum price 70p + total off-t discount ban	-21.9	-9.2	-9.9	-64.0	-105.0	-56.9	-6.9	-168.9	-357	-77	-83	-532	-1,048	-1,520	-64	-2,633	

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 (Meng et al, 2010): “Model-based appraisal of alcohol minimum pricing and off-licensed trade discount bans in Scotland using the Sheffield Alcohol Policy Mode (v 2): an update based on newly available data”

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 off-trade purchase data used (from Nielsen 2010) which shows a price distribution with less alcohol sold at lower prices than our previous report estimated, and therefore, for any of the policies, a lower proportion of the products bought are affected by a minimum price (see Table 2.3 and Figure 2.1).

Figures 3.2a and 3.2b show the differences in estimated mortality effects (both absolute reduction as the number deaths and relative reduction as a percentage of overall alcohol attributable deaths) between the new and the previous results. The baseline alcohol attributable deaths are 812 and 827 in year 1 and 1849 and 1719 at full effect in year 10 for the new and the previous model respectively (see the third row of Table 3.9 in this and the previous reports). The reason there are fewer alcohol attributable deaths in year 1 and more at full effect is because a larger proportion of the alcohol attributable deaths in year 1 in the new model are due to chronic conditions (14% vs 12%, or 112 out of 812 vs 100 out of 827) for which a 10 year time lag is assumed. Therefore, in year 10 at full effect, the proportion of alcohol attributable deaths that are due to chronic conditions increases to 60% and 56% (or 1,117 out of 1,849 vs 961 out of 1,719) for the new and the previous model respectively. Overall, due to the smaller effects on consumption reduction, the new results show slightly smaller estimated absolute and relative reductions in mortalities across the range of policies when compared with the previous results.

Figures 3.3a and 3.3b compare the change in the number of hospital admissions per annum (both the absolute reduction as the number of admissions and the relative reduction as a percentage of overall alcohol attributable admissions) between the new and the previous results, again for the whole population and all policies. The baseline alcohol attributable hospital admissions are 29,100 and 29,700 in year 1 and 65,000 and 61,000 at full effect in year 10 for the new and the previous model respectively. This shows a similar pattern as for the comparison of baseline alcohol attributable mortality where there are fewer cases in year 1 and more cases at full effect for the new model. The reason for this is also similar and it is

because a larger proportion of the alcohol attributable hospital admissions in year 1 in the new model are due to chronic conditions (12% vs 11%, or 3,600 out of 29,100 vs 3,200 out of 29,700) for which a 10 year time lag is assumed. Therefore, in year 10 at full effect, the proportion of alcohol attributable hospital admissions that are due to chronic conditions increases to 60% and 57% (or 39,300 out of 65,000 vs 34,500 out of 61,000) for the new and the previous model respectively. Overall, due to the smaller effects on consumption reduction, the new results show slightly smaller estimated relative reductions in hospital admissions across the range of policies when compared with the previous results (see Figure 3.3b). When comparing absolute reductions, because the baseline alcohol attributable hospital admissions at full effect have increased (from 61,000 to 65,000), the new results show slightly larger estimated absolute reductions for most of the modelled policies (see Figure 3.3a).

Figure 3.4 compares the annual change in the number of total crimes between the new and the previous model. Overall, the new results show slightly smaller estimated reductions in crimes across the range of policies when compared with the previous results.

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.

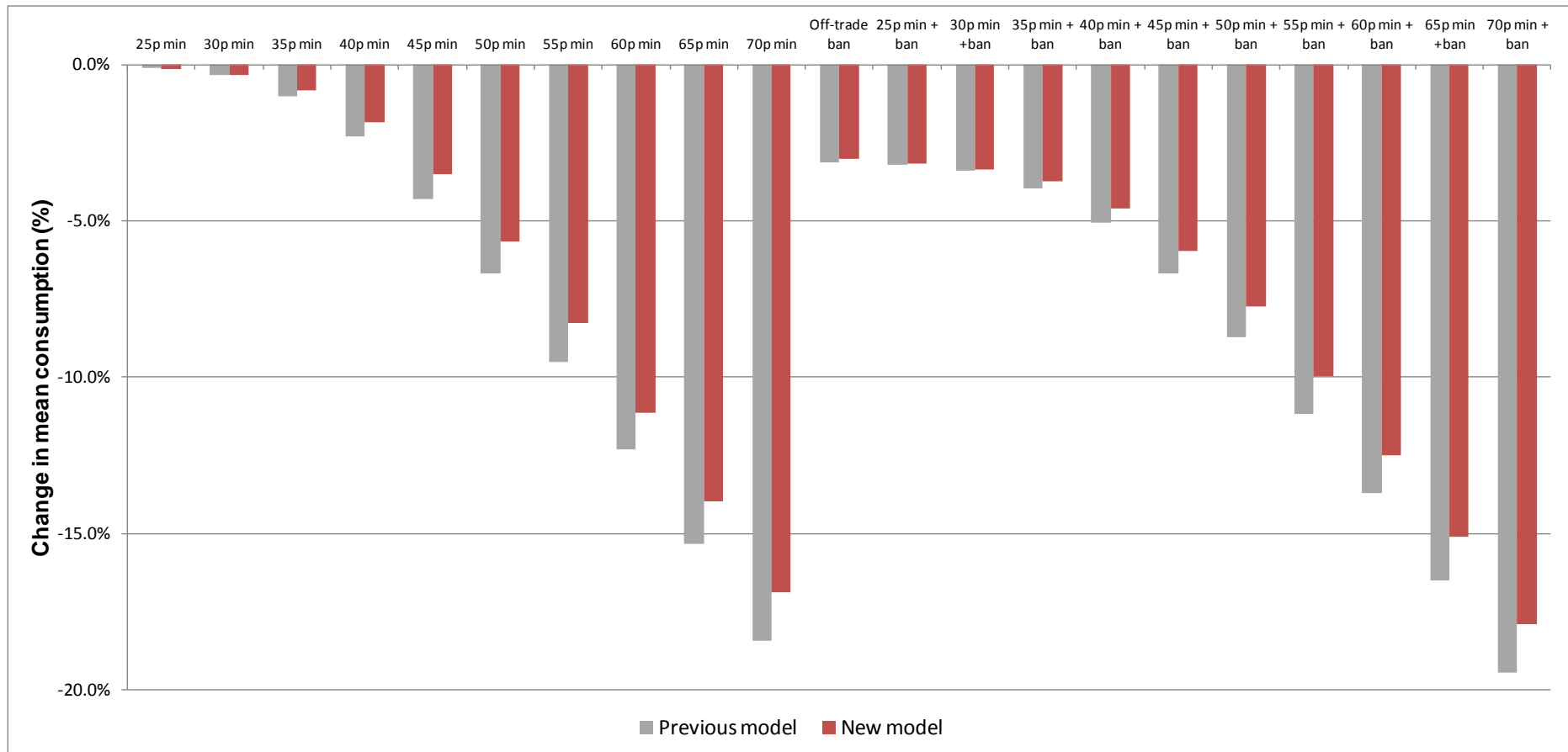


Figure 3.1: Consumption: Comparison of the change of mean weekly alcohol consumption of the total population between the new and the previous results

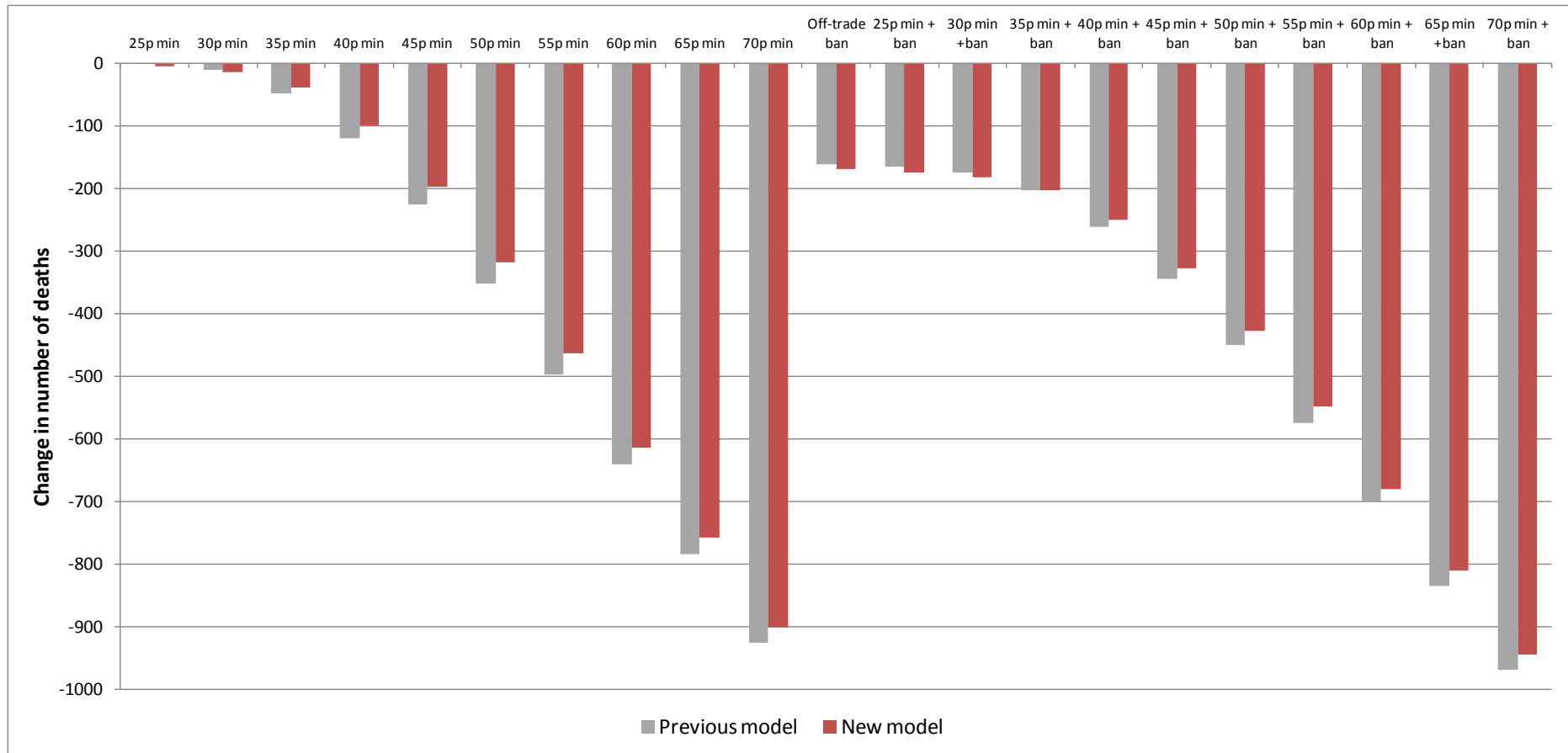


Figure 3.2a: Mortality: Comparison of the change of number of deaths of the total population between the new and the previous results

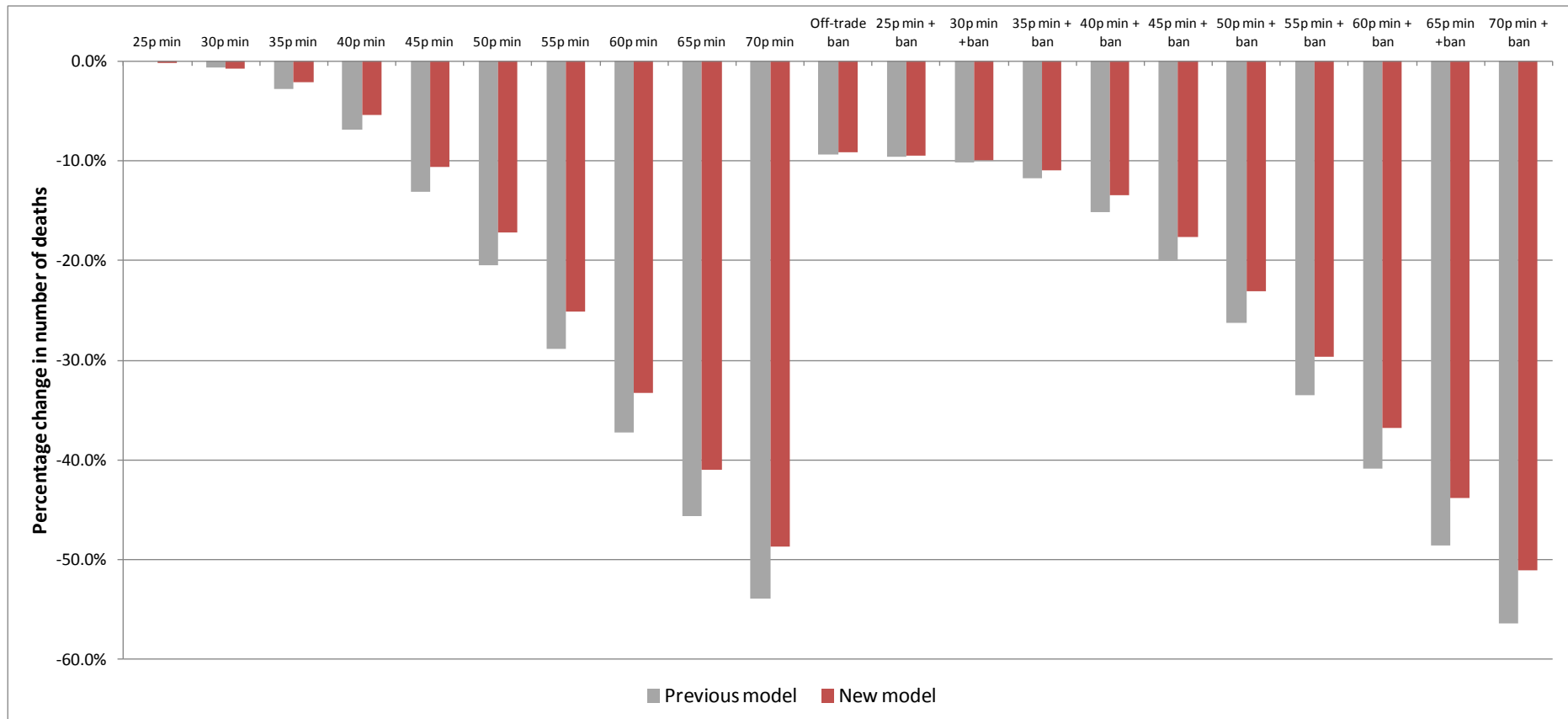


Figure 3.2b: Mortality: Comparison of the % change of number of deaths of the total population between the new and the previous results

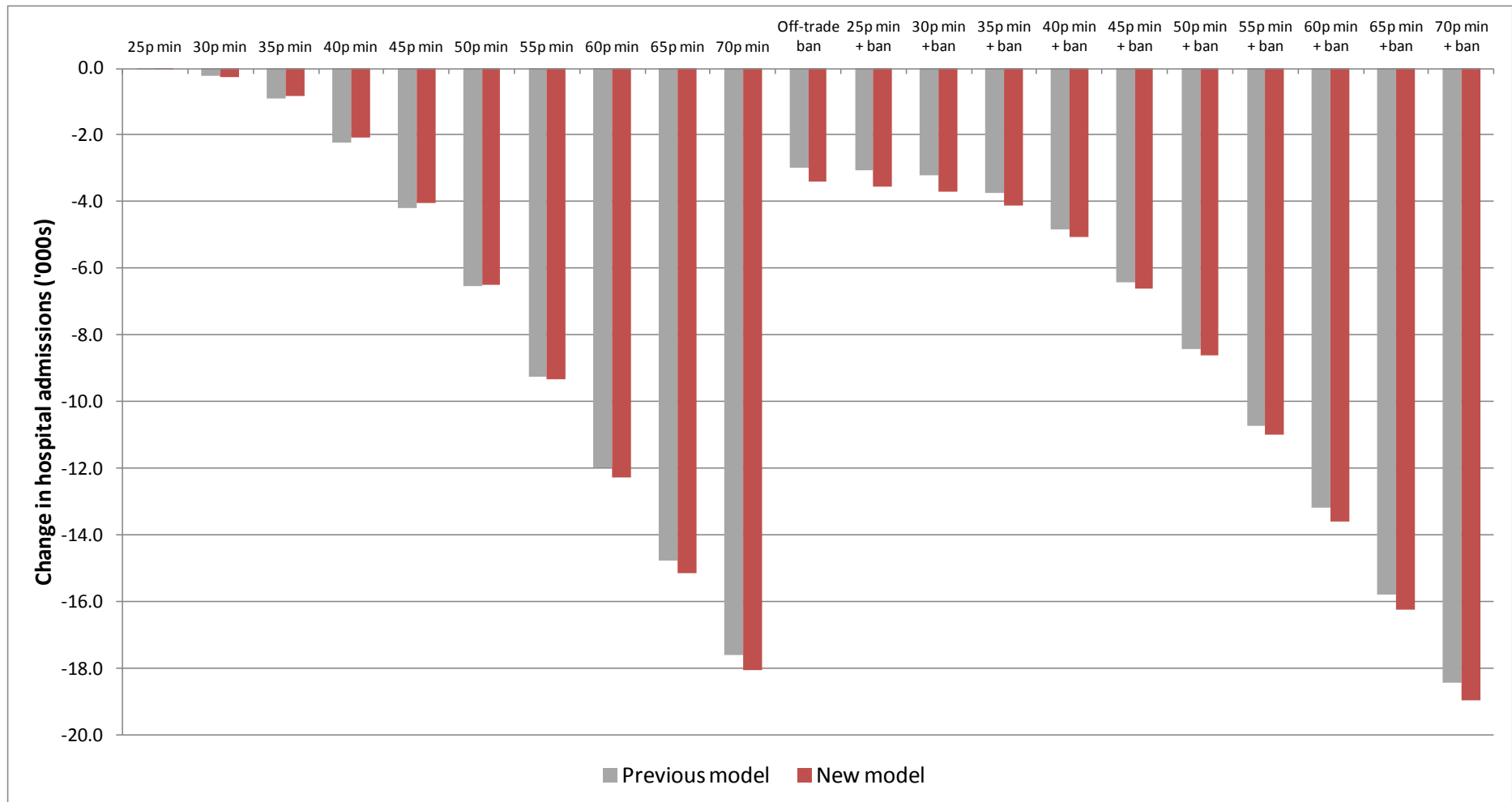


Figure 3.3a: Morbidity: Comparison of the change of hospital admissions of the total population between the new and the previous results

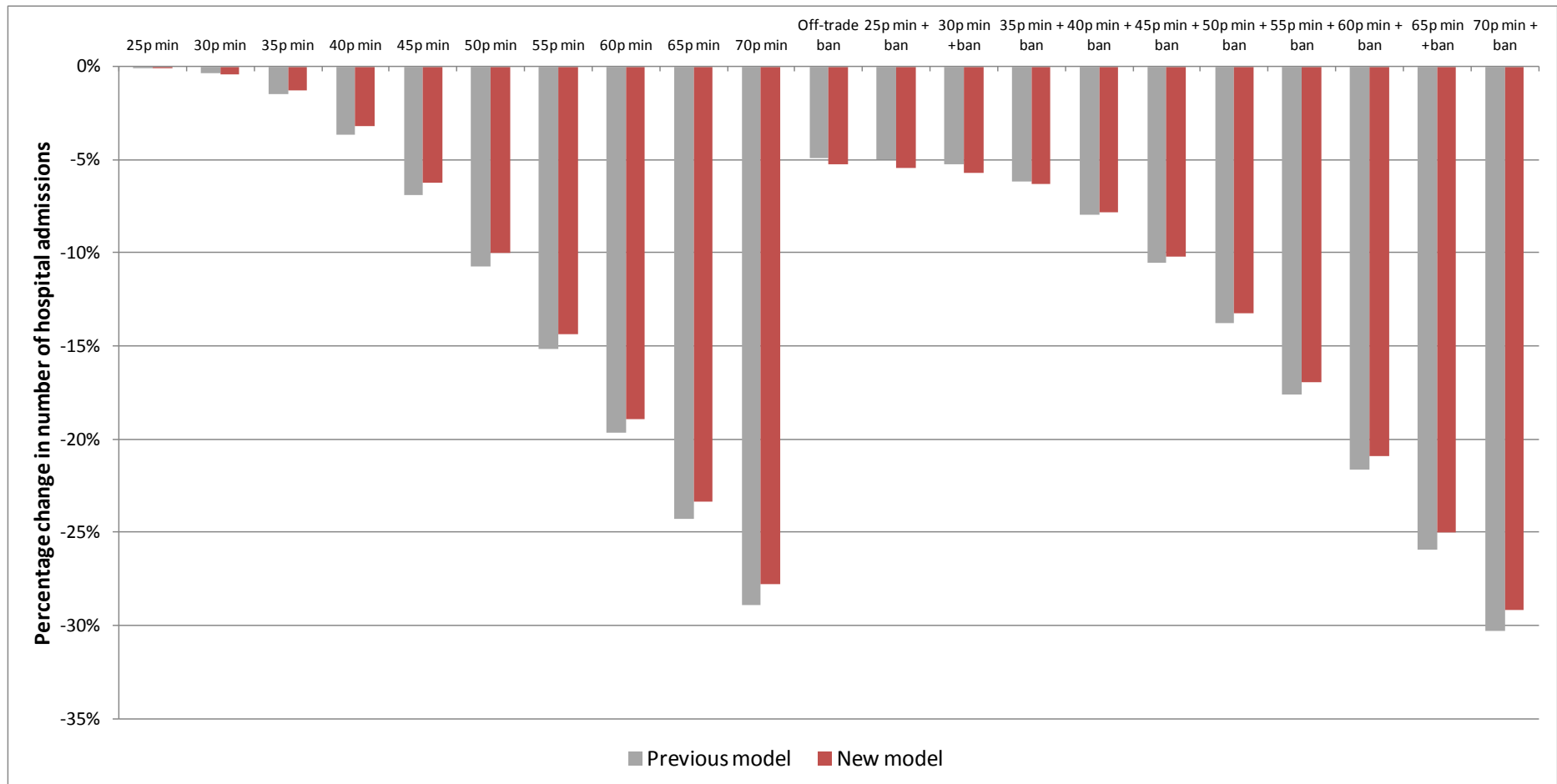


Figure 3.3b: Morbidity: Comparison of the % change of hospital admissions of the total population between the new and the previous results

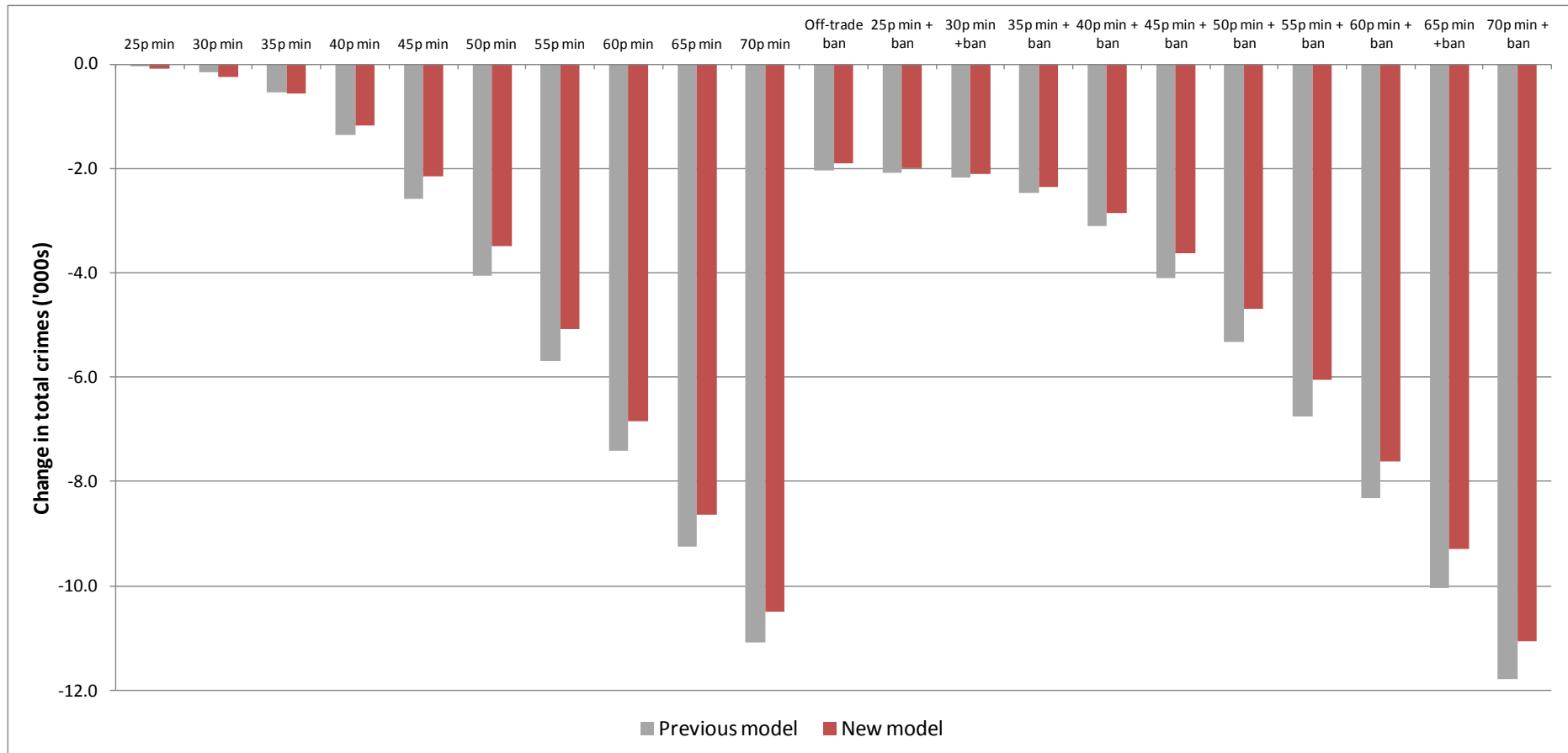


Figure 3.4: Crime: Comparison of the change of total crimes of the total population between the new and the previous results

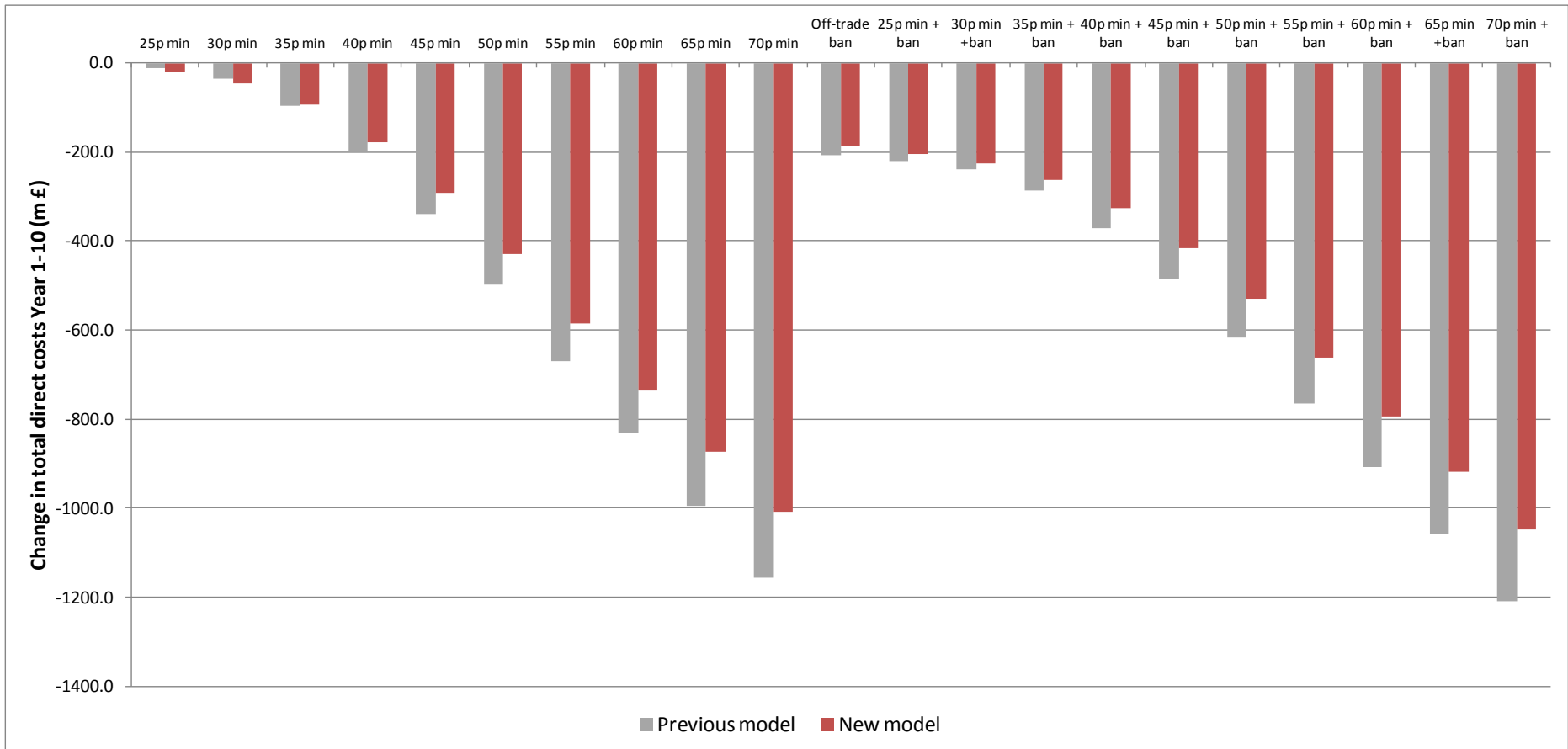


Figure 3.5: Costs: Comparison of the change of total direct costs Year 1-10 of the total population between the new and the previous results

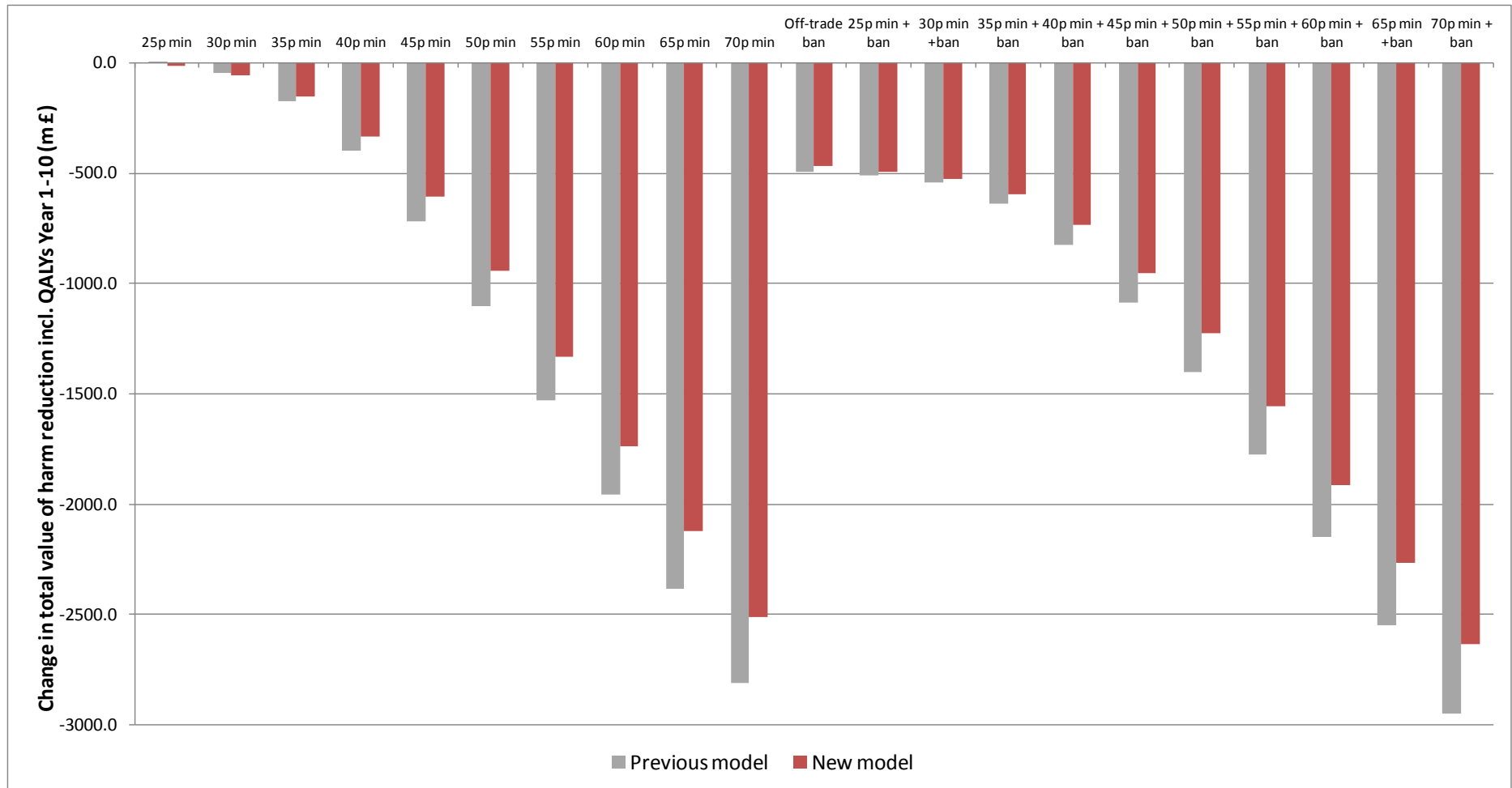


Figure 3.6: Financial Valuation: Comparison of the change of total Financial Valuation Year 1-10 between the new and the previous results

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	+0.5	+0.5	+0.0	+0.2	+1.3	+0.2%	+0.50	+0.21
2 Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.0	+1.1	+1.0	+0.0	+0.3	+2.5	+0.3%	+0.96	+0.49
3 Minimum price 35p	-0.2%	-0.4	-0.1	+0.0	+0.0	-0.5	+2.4	+1.8	-0.1	+0.6	+4.7	+0.6%	+1.80	+1.21
4 Minimum price 40p	-0.7%	-0.6	-0.6	-0.8	+0.0	-2.0	+5.3	+2.8	-0.5	+0.9	+8.6	+1.1%	+3.31	+3.03
5 Minimum price 45p	-1.5%	-0.8	-1.9	-2.1	+0.0	-4.8	+9.9	+4.2	-1.3	+1.4	+14.2	+1.9%	+5.51	+6.27
6 Minimum price 50p	-2.8%	-1.3	-3.8	-3.5	+0.0	-8.6	+15.8	+5.8	-2.5	+2.0	+21.1	+2.8%	+8.19	+10.78
7 Minimum price 55p	-4.3%	-1.8	-6.4	-5.3	+0.0	-13.4	+22.5	+7.7	-3.9	+2.6	+28.8	+3.8%	+11.17	+16.56
8 Minimum price 60p	-6.1%	-2.4	-9.3	-7.2	+0.0	-18.9	+29.2	+9.6	-5.8	+3.2	+36.3	+4.7%	+14.06	+23.11
9 Minimum price 65p	-8.0%	-3.1	-12.5	-9.4	+0.0	-24.9	+35.4	+11.7	-8.0	+3.9	+43.0	+5.6%	+16.65	+30.28
10 Minimum price 70p	-10.0%	-3.8	-15.9	-11.6	+0.1	-31.3	+40.5	+14.0	-10.5	+4.6	+48.6	+6.3%	+18.82	+37.94
11 Total off-trade discount ban	-2.0%	-0.7	-4.6	-1.0	-0.0	-6.4	+12.0	+1.8	-1.1	+0.6	+13.2	+1.7%	+5.13	+8.31
12 Minimum price 25p + total off-t discount ban	-2.0%	-0.9	-4.5	-1.0	-0.0	-6.3	+12.5	+2.2	-1.1	+0.7	+14.3	+1.9%	+5.55	+8.49
13 Minimum price 30p + total off-t discount ban	-2.1%	-1.0	-4.5	-0.9	-0.0	-6.4	+12.9	+2.6	-1.1	+0.9	+15.3	+2.0%	+5.93	+8.73
14 Minimum price 35p + total off-t discount ban	-2.2%	-1.1	-4.7	-1.0	-0.0	-6.8	+13.9	+3.2	-1.2	+1.1	+17.0	+2.2%	+6.58	+9.30
15 Minimum price 40p + total off-t discount ban	-2.6%	-1.1	-5.2	-1.8	-0.0	-8.1	+16.2	+4.2	-1.7	+1.4	+20.1	+2.6%	+7.79	+10.81
16 Minimum price 45p + total off-t discount ban	-3.3%	-1.3	-6.2	-2.9	-0.0	-10.4	+19.6	+5.4	-2.4	+1.8	+24.4	+3.2%	+9.45	+13.39
17 Minimum price 50p + total off-t discount ban	-4.3%	-1.6	-7.6	-4.2	-0.0	-13.4	+23.8	+6.8	-3.4	+2.3	+29.5	+3.8%	+11.41	+16.96
18 Minimum price 55p + total off-t discount ban	-5.6%	-2.0	-9.7	-5.7	-0.0	-17.4	+28.8	+8.4	-4.8	+2.8	+35.2	+4.6%	+13.63	+21.69
19 Minimum price 60p + total off-t discount ban	-7.1%	-2.5	-12.1	-7.5	+0.0	-22.1	+33.9	+10.2	-6.5	+3.4	+41.0	+5.3%	+15.87	+27.30
20 Minimum price 65p + total off-t discount ban	-8.9%	-3.1	-14.9	-9.6	+0.0	-27.6	+38.8	+12.2	-8.7	+4.0	+46.4	+6.0%	+17.97	+33.82
21 Minimum price 70p + total off-t discount ban	-10.8%	-3.8	-18.0	-11.8	+0.0	-33.6	+43.0	+14.5	-11.2	+4.7	+51.0	+6.6%	+19.77	+41.00

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.
1 Minimum price 25p	-0.0%	-2.3	+1.8	+0.2	+0.0	-0.2	+1.6	+1.0	+0.2	+0.3	+3.1	+0.4%	+3.89	+2.03
2 Minimum price 30p	-0.1%	-4.8	+3.4	+0.3	+0.0	-1.0	+3.5	+2.2	+0.2	+0.7	+6.6	+0.8%	+8.35	+4.76
3 Minimum price 35p	-0.3%	-8.3	+4.9	-1.4	+0.0	-4.8	+6.8	+4.1	-0.0	+1.4	+12.3	+1.5%	+15.44	+10.68
4 Minimum price 40p	-1.2%	-12.0	+3.7	-8.1	+0.1	-16.3	+12.9	+7.1	-1.3	+2.4	+21.1	+2.6%	+26.54	+23.74
5 Minimum price 45p	-2.7%	-16.2	-3.9	-18.1	+0.1	-38.1	+21.3	+10.8	-3.8	+3.7	+32.0	+3.9%	+40.33	+45.77
6 Minimum price 50p	-4.8%	-21.2	-16.4	-30.5	+0.1	-67.9	+30.6	+14.9	-7.5	+5.1	+43.1	+5.3%	+54.31	+74.48
7 Minimum price 55p	-7.5%	-26.9	-34.6	-44.2	+0.1	-105.6	+39.6	+19.4	-12.4	+6.7	+53.3	+6.5%	+67.14	+109.43
8 Minimum price 60p	-10.5%	-33.1	-55.4	-59.0	+0.1	-147.4	+46.8	+24.1	-18.3	+8.3	+61.0	+7.5%	+76.78	+147.68
9 Minimum price 65p	-13.6%	-37.3	-79.0	-74.8	+0.1	-191.0	+52.3	+29.1	-24.8	+10.0	+66.6	+8.2%	+83.87	+189.00
10 Minimum price 70p	-16.7%	-40.0	-104.1	-91.1	+0.1	-235.1	+55.5	+34.4	-31.7	+11.7	+69.8	+8.6%	+87.94	+232.42
11 Total off-trade discount ban	-3.3%	-7.3	-31.5	-7.5	-0.1	-46.5	+17.8	+4.0	-4.2	+1.4	+18.9	+2.3%	+23.82	+45.20
12 Minimum price 25p + total off-t discount ban	-3.3%	-9.4	-30.1	-7.3	-0.1	-46.9	+19.1	+4.8	-4.1	+1.7	+21.5	+2.6%	+27.05	+47.02
13 Minimum price 30p + total off-t discount ban	-3.4%	-11.3	-29.1	-7.3	-0.1	-47.9	+20.5	+5.8	-4.1	+2.0	+24.1	+3.0%	+30.40	+49.24
14 Minimum price 35p + total off-t discount ban	-3.6%	-13.8	-28.3	-8.9	-0.1	-51.2	+23.1	+7.3	-4.4	+2.5	+28.5	+3.5%	+35.90	+53.97
15 Minimum price 40p + total off-t discount ban	-4.3%	-16.2	-29.7	-15.0	-0.1	-61.0	+27.8	+9.9	-5.6	+3.4	+35.5	+4.4%	+44.73	+64.67
16 Minimum price 45p + total off-t discount ban	-5.6%	-19.0	-35.7	-24.0	-0.1	-78.7	+33.9	+13.1	-7.9	+4.5	+43.7	+5.4%	+55.09	+82.30
17 Minimum price 50p + total off-t discount ban	-7.3%	-22.8	-45.2	-34.9	-0.0	-103.0	+40.3	+16.8	-11.2	+5.8	+51.8	+6.3%	+65.17	+105.46
18 Minimum price 55p + total off-t discount ban	-9.6%	-27.8	-59.6	-47.2	-0.0	-134.6	+46.4	+20.9	-15.6	+7.2	+58.9	+7.2%	+74.21	+134.69
19 Minimum price 60p + total off-t discount ban	-12.2%	-33.4	-76.8	-61.1	-0.0	-171.3	+51.2	+25.3	-21.1	+8.8	+64.2	+7.9%	+80.82	+168.10
20 Minimum price 65p + total off-t discount ban	-15.0%	-37.2	-97.7	-76.4	-0.0	-211.3	+54.9	+30.0	-27.4	+10.4	+68.0	+8.3%	+85.58	+206.11
21 Minimum price 70p + total off-t discount ban	-18.0%	-39.7	-120.8	-92.4	-0.0	-253.0	+56.7	+35.2	-34.2	+12.0	+69.7	+8.6%	+87.80	+247.20

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	-0.6%	-25.3	+4.0	+0.1	+0.0	-21.1	+1.6	+0.4	-0.4	+0.2	+1.9	+0.4%	+10.35	+11.83
2 Minimum price 30p	-1.2%	-54.5	+7.9	+0.1	+0.1	-46.5	+3.3	+1.0	-0.9	+0.4	+3.8	+0.8%	+21.18	+26.68
3 Minimum price 35p	-2.5%	-97.4	+11.2	-7.2	+0.2	-93.2	+6.1	+2.1	-1.9	+0.7	+7.0	+1.5%	+38.69	+57.30
4 Minimum price 40p	-4.5%	-146.5	+8.6	-33.7	+0.4	-171.2	+10.9	+3.8	-3.9	+1.3	+12.1	+2.7%	+66.43	+114.02
5 Minimum price 45p	-7.3%	-202.3	-5.8	-70.8	+0.6	-278.3	+16.5	+6.0	-6.9	+2.1	+17.7	+3.9%	+97.76	+195.11
6 Minimum price 50p	-10.7%	-265.6	-28.8	-113.6	+0.8	-407.3	+21.7	+8.4	-10.6	+3.0	+22.4	+4.9%	+123.42	+292.89
7 Minimum price 55p	-14.6%	-335.0	-60.8	-159.8	+1.0	-554.6	+25.5	+10.9	-15.2	+3.9	+25.2	+5.5%	+138.71	+403.93
8 Minimum price 60p	-18.6%	-401.7	-98.4	-208.6	+1.3	-707.4	+27.8	+13.6	-20.3	+4.8	+25.9	+5.7%	+142.74	+522.69
9 Minimum price 65p	-22.2%	-444.7	-140.9	-258.6	+1.6	-842.6	+29.6	+16.5	-25.1	+5.8	+26.8	+5.9%	+147.74	+647.32
10 Minimum price 70p	-25.9%	-488.6	-186.7	-309.5	+1.1	-983.7	+29.4	+19.6	-30.4	+6.8	+25.4	+5.6%	+140.04	+778.01
11 Total off-trade discount ban	-3.9%	-68.9	-57.5	-19.4	-1.5	-147.3	+11.7	+2.2	-2.9	+0.8	+11.8	+2.6%	+65.06	+126.30
12 Minimum price 25p + total off-t discount ban	-4.4%	-90.8	-54.3	-19.4	-1.5	-166.1	+12.9	+2.6	-3.3	+0.9	+13.2	+2.9%	+72.59	+136.52
13 Minimum price 30p + total off-t discount ban	-4.9%	-113.8	-51.8	-19.6	-1.4	-186.6	+14.0	+3.1	-3.7	+1.1	+14.5	+3.2%	+79.74	+148.18
14 Minimum price 35p + total off-t discount ban	-5.9%	-146.3	-49.8	-26.3	-1.3	-223.8	+16.0	+3.9	-4.7	+1.4	+16.6	+3.7%	+91.62	+171.53
15 Minimum price 40p + total off-t discount ban	-7.6%	-183.7	-52.6	-50.6	-1.2	-288.2	+19.3	+5.4	-6.4	+1.9	+20.1	+4.4%	+111.02	+216.69
16 Minimum price 45p + total off-t discount ban	-9.9%	-227.4	-64.2	-84.0	-1.0	-376.7	+23.1	+7.3	-9.1	+2.6	+23.9	+5.3%	+131.77	+281.69
17 Minimum price 50p + total off-t discount ban	-12.8%	-280.5	-82.0	-123.0	-0.8	-486.3	+26.5	+9.4	-12.5	+3.4	+26.8	+5.9%	+147.54	+362.74
18 Minimum price 55p + total off-t discount ban	-16.2%	-342.9	-107.6	-165.5	-0.6	-616.7	+28.9	+11.8	-16.8	+4.2	+28.1	+6.2%	+154.71	+459.13
19 Minimum price 60p + total off-t discount ban	-19.9%	-405.0	-138.8	-211.8	-0.4	-756.0	+30.0	+14.3	-21.6	+5.1	+27.7	+6.1%	+152.86	+566.26
20 Minimum price 65p + total off-t discount ban	-23.2%	-445.5	-176.6	-260.9	-0.1	-883.0	+31.1	+17.0	-26.2	+6.0	+27.9	+6.1%	+153.56	+683.48
21 Minimum price 70p + total off-t discount ban	-26.8%	-488.0	-218.8	-311.4	-0.5	-1018.6	+30.2	+20.1	-31.4	+7.0	+25.8	+5.7%	+142.36	+809.01

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)	Unemployed ('000s people)
1 Minimum price 25p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	+0.0
2 Minimum price 30p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.3	+0.0
3 Minimum price 35p	+0	-0.0	+0.0	+0.0	+0.0	+0	-0.0	+0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.9	+0.0
4 Minimum price 40p	-3	-0.0	-0.1	-0.1	-0.0	-3	-0.0	-0.1	-0.2	-0.6	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-2.7	+0.0
5 Minimum price 45p	-7	-0.0	-0.2	-0.2	-0.1	-8	-0.1	-0.2	-0.4	-1.2	-0.1	-0.1	-0.2	-0.4	-0.0	-0.0	-6.0	+0.0
6 Minimum price 50p	-12	-0.0	-0.3	-0.4	-0.1	-15	-0.2	-0.3	-0.7	-2.1	-0.1	-0.3	-0.4	-0.8	-0.0	-0.0	-11.0	+0.0
7 Minimum price 55p	-19	-0.0	-0.5	-0.6	-0.2	-23	-0.3	-0.5	-1.1	-3.2	-0.2	-0.4	-0.6	-1.3	-0.0	-0.0	-17.5	+0.0
8 Minimum price 60p	-26	-0.0	-0.7	-0.9	-0.2	-32	-0.4	-0.7	-1.6	-4.5	-0.3	-0.6	-0.9	-1.9	-0.0	-0.0	-25.1	+0.0
9 Minimum price 65p	-34	-0.1	-0.9	-1.1	-0.3	-42	-0.6	-0.9	-2.0	-5.8	-0.4	-0.8	-1.3	-2.5	-0.0	-0.0	-33.4	+0.0
10 Minimum price 70p	-43	-0.1	-1.1	-1.4	-0.4	-53	-0.7	-1.2	-2.6	-7.1	-0.6	-1.0	-1.6	-3.2	-0.0	-0.0	-42.2	+0.0
11 Total off-trade discount ban	-8	-0.0	-0.2	-0.3	-0.1	-10	-0.1	-0.2	-0.5	-1.4	-0.1	-0.2	-0.3	-0.7	-0.0	-0.0	-9.5	+0.0
12 Minimum price 25p + total off-t discount ban	-8	-0.0	-0.2	-0.3	-0.1	-10	-0.1	-0.2	-0.5	-1.4	-0.1	-0.2	-0.3	-0.7	-0.0	-0.0	-9.5	+0.0
13 Minimum price 30p + total off-t discount ban	-8	-0.0	-0.2	-0.3	-0.1	-10	-0.1	-0.2	-0.5	-1.4	-0.1	-0.2	-0.3	-0.7	-0.0	-0.0	-9.7	+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	-0.1	-0.2	-0.3	-0.7	-0.0	-0.0	-10.3	+0.0
15 Minimum price 40p + total off-t discount ban	-11	-0.0	-0.3	-0.4	-0.1	-13	-0.2	-0.3	-0.6	-1.9	-0.1	-0.2	-0.4	-0.8	-0.0	-0.0	-11.7	+0.0
16 Minimum price 45p + total off-t discount ban	-14	-0.0	-0.4	-0.5	-0.1	-17	-0.2	-0.4	-0.8	-2.4	-0.2	-0.3	-0.5	-1.0	-0.0	-0.0	-14.4	+0.0
17 Minimum price 50p + total off-t discount ban	-18	-0.0	-0.5	-0.6	-0.2	-23	-0.3	-0.5	-1.1	-3.1	-0.2	-0.4	-0.6	-1.3	-0.0	-0.0	-18.3	+0.0
18 Minimum price 55p + total off-t discount ban	-24	-0.0	-0.6	-0.8	-0.2	-29	-0.4	-0.6	-1.4	-4.1	-0.3	-0.5	-0.8	-1.7	-0.0	-0.0	-23.6	+0.0
19 Minimum price 60p + total off-t discount ban	-30	-0.0	-0.8	-1.0	-0.3	-37	-0.5	-0.8	-1.8	-5.1	-0.4	-0.7	-1.1	-2.2	-0.0	-0.0	-30.0	+0.0
20 Minimum price 65p + total off-t discount ban	-38	-0.1	-1.0	-1.3	-0.3	-46	-0.6	-1.0	-2.3	-6.3	-0.5	-0.9	-1.4	-2.7	-0.0	-0.0	-37.5	+0.0
21 Minimum price 70p + total off-t discount ban	-46	-0.1	-1.2	-1.5	-0.4	-56	-0.7	-1.3	-2.7	-7.6	-0.6	-1.1	-1.7	-3.4	-0.0	-0.0	-45.8	+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.	
	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	+1	+0.0	+0.0	+0.0	+0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	+0.0
2 Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-1	-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	-1	-0.0	-0.0	-0.0	-0.0	-7	-0.0	-0.0	-0.1	-0.2	-0.0	-0.0	-0.1	-0.1	-0.0	-0.7	+0.0
4 Minimum price 40p	-5	-0.0	-0.1	-0.1	-0.0	-32	-0.2	-0.1	-0.5	-0.8	-0.0	-0.1	-0.2	-0.3	-0.0	-2.2	+0.0
5 Minimum price 45p	-13	-0.0	-0.2	-0.3	-0.1	-76	-0.5	-0.2	-1.2	-2.0	-0.1	-0.2	-0.3	-0.6	-0.0	-5.1	+0.0
6 Minimum price 50p	-23	-0.1	-0.3	-0.5	-0.1	-135	-0.9	-0.4	-2.1	-3.5	-0.1	-0.3	-0.5	-0.9	-0.0	-8.9	+0.0
7 Minimum price 55p	-36	-0.1	-0.5	-0.8	-0.2	-208	-1.4	-0.6	-3.3	-5.4	-0.2	-0.4	-0.7	-1.4	-0.0	-13.9	+0.0
8 Minimum price 60p	-49	-0.2	-0.7	-1.1	-0.2	-285	-2.0	-0.8	-4.6	-7.5	-0.3	-0.6	-1.0	-1.9	-0.0	-19.3	+0.0
9 Minimum price 65p	-63	-0.2	-0.9	-1.4	-0.3	-362	-2.6	-1.1	-5.9	-9.5	-0.4	-0.8	-1.3	-2.4	-0.0	-25.1	+0.0
10 Minimum price 70p	-77	-0.3	-1.1	-1.7	-0.4	-436	-3.1	-1.3	-7.2	-11.6	-0.5	-0.9	-1.6	-2.9	-0.0	-30.9	+0.0
11 Total off-trade discount ban	-15	-0.1	-0.2	-0.3	-0.1	-88	-0.6	-0.2	-1.4	-2.3	-0.1	-0.2	-0.3	-0.6	-0.0	-6.3	+0.0
12 Minimum price 25p + total off-t discount ban	-15	-0.1	-0.2	-0.3	-0.1	-88	-0.6	-0.2	-1.4	-2.3	-0.1	-0.2	-0.3	-0.6	-0.0	-6.4	+0.0
13 Minimum price 30p + total off-t discount ban	-15	-0.1	-0.2	-0.3	-0.1	-90	-0.6	-0.2	-1.4	-2.3	-0.1	-0.2	-0.3	-0.6	-0.0	-6.5	+0.0
14 Minimum price 35p + total off-t discount ban	-16	-0.1	-0.2	-0.4	-0.1	-95	-0.7	-0.3	-1.5	-2.5	-0.1	-0.2	-0.4	-0.7	-0.0	-7.0	+0.0
15 Minimum price 40p + total off-t discount ban	-19	-0.1	-0.3	-0.4	-0.1	-115	-0.8	-0.3	-1.8	-3.0	-0.1	-0.3	-0.4	-0.8	-0.0	-8.3	+0.0
16 Minimum price 45p + total off-t discount ban	-26	-0.1	-0.4	-0.6	-0.1	-151	-1.0	-0.4	-2.4	-3.9	-0.2	-0.3	-0.5	-1.0	-0.0	-10.6	+0.0
17 Minimum price 50p + total off-t discount ban	-34	-0.1	-0.5	-0.8	-0.2	-199	-1.4	-0.6	-3.1	-5.2	-0.2	-0.4	-0.7	-1.3	-0.0	-13.7	+0.0
18 Minimum price 55p + total off-t discount ban	-44	-0.2	-0.6	-1.0	-0.2	-258	-1.8	-0.7	-4.1	-6.7	-0.3	-0.5	-0.9	-1.7	-0.0	-17.8	+0.0
19 Minimum price 60p + total off-t discount ban	-56	-0.2	-0.8	-1.3	-0.3	-325	-2.3	-0.9	-5.2	-8.5	-0.3	-0.7	-1.1	-2.1	-0.0	-22.6	+0.0
20 Minimum price 65p + total off-t discount ban	-69	-0.3	-1.0	-1.5	-0.3	-394	-2.8	-1.2	-6.4	-10.4	-0.4	-0.8	-1.4	-2.6	-0.0	-27.9	+0.0
21 Minimum price 70p + total off-t discount ban	-81	-0.3	-1.2	-1.8	-0.4	-463	-3.3	-1.4	-7.7	-12.3	-0.5	-1.0	-1.7	-3.1	-0.0	-33.3	+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	-7	-0.1	-0.0	-0.2	-0.2	-0.0	-0.0	-0.0	-0.1	-0.0	-0.7	-0.1
2 Minimum price 30p	-2	-0.0	-0.0	-0.1	-0.0	-14	-0.2	-0.0	-0.3	-0.4	-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	-31	-0.3	-0.1	-0.7	-0.8	-0.0	-0.1	-0.2	-0.4	-0.0	-2.9	-0.3
4 Minimum price 40p	-9	-0.1	-0.1	-0.3	-0.1	-64	-0.6	-0.1	-1.4	-1.6	-0.1	-0.2	-0.4	-0.7	-0.0	-5.3	-0.6
5 Minimum price 45p	-16	-0.1	-0.2	-0.4	-0.1	-112	-1.1	-0.2	-2.5	-2.8	-0.1	-0.3	-0.7	-1.2	-0.0	-8.5	-0.9
6 Minimum price 50p	-25	-0.2	-0.3	-0.7	-0.1	-169	-1.6	-0.3	-3.6	-4.2	-0.2	-0.5	-1.0	-1.7	-0.0	-12.2	-1.3
7 Minimum price 55p	-34	-0.2	-0.4	-0.9	-0.2	-233	-2.2	-0.4	-4.9	-5.7	-0.3	-0.6	-1.3	-2.2	-0.0	-16.5	-1.7
8 Minimum price 60p	-44	-0.3	-0.5	-1.1	-0.2	-297	-2.7	-0.5	-6.2	-7.3	-0.4	-0.8	-1.7	-2.8	-0.0	-21.0	-2.0
9 Minimum price 65p	-53	-0.3	-0.6	-1.4	-0.3	-354	-3.2	-0.6	-7.2	-8.7	-0.4	-1.0	-2.0	-3.4	-0.0	-24.9	-2.3
10 Minimum price 70p	-62	-0.4	-0.7	-1.6	-0.3	-413	-3.7	-0.7	-8.3	-10.1	-0.5	-1.1	-2.3	-3.9	-0.0	-29.0	-2.6
11 Total off-trade discount ban	-10	-0.1	-0.1	-0.3	-0.1	-71	-0.7	-0.1	-1.5	-1.7	-0.1	-0.1	-0.3	-0.5	-0.0	-4.2	-0.5
12 Minimum price 25p + total off-t discount ban	-11	-0.1	-0.1	-0.3	-0.1	-77	-0.7	-0.1	-1.7	-1.9	-0.1	-0.2	-0.4	-0.6	-0.0	-4.8	-0.5
13 Minimum price 30p + total off-t discount ban	-12	-0.1	-0.1	-0.3	-0.1	-83	-0.8	-0.1	-1.8	-2.0	-0.1	-0.2	-0.4	-0.7	-0.0	-5.5	-0.6
14 Minimum price 35p + total off-t discount ban	-14	-0.1	-0.2	-0.4	-0.1	-96	-0.9	-0.2	-2.1	-2.4	-0.1	-0.2	-0.5	-0.9	-0.0	-6.6	-0.7
15 Minimum price 40p + total off-t discount ban	-18	-0.1	-0.2	-0.5	-0.1	-121	-1.2	-0.2	-2.6	-3.0	-0.1	-0.3	-0.7	-1.1	-0.0	-8.6	-0.9
16 Minimum price 45p + total off-t discount ban	-23	-0.1	-0.3	-0.6	-0.1	-159	-1.5	-0.3	-3.4	-3.9	-0.2	-0.4	-0.9	-1.5	-0.0	-11.2	-1.2
17 Minimum price 50p + total off-t discount ban	-30	-0.2	-0.4	-0.8	-0.2	-205	-1.9	-0.3	-4.4	-5.1	-0.2	-0.5	-1.1	-1.9	-0.0	-14.5	-1.5
18 Minimum price 55p + total off-t discount ban	-39	-0.2	-0.4	-1.0	-0.2	-260	-2.4	-0.4	-5.4	-6.4	-0.3	-0.7	-1.4	-2.4	-0.0	-18.3	-1.8
19 Minimum price 60p + total off-t discount ban	-47	-0.3	-0.6	-1.2	-0.2	-318	-2.9	-0.5	-6.5	-7.8	-0.4	-0.8	-1.8	-3.0	-0.0	-22.4	-2.1
20 Minimum price 65p + total off-t discount ban	-56	-0.3	-0.7	-1.4	-0.3	-371	-3.3	-0.6	-7.5	-9.1	-0.4	-1.0	-2.1	-3.5	-0.0	-26.1	-2.4
21 Minimum price 70p + total off-t discount ban	-64	-0.4	-0.8	-1.6	-0.3	-426	-3.8	-0.8	-8.5	-10.4	-0.5	-1.1	-2.4	-4.0	-0.0	-30.0	-2.6

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)							
	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
1 Minimum price 25p	+0.3	-0	-0	+0	+3	+1.0	-0	+1.3	+3	-	-	+	+3	+12	-	+15
2 Minimum price 30p	+0.3	-0	-0	+0	+3	+8	-0	+1.1	+3	-	-	+	+3	+9	-	+11
3 Minimum price 35p	+0.0	-0	-1	+0	-1	+1	-0	-0	+	-	-1	+	-1	-4	-	-5
4 Minimum price 40p	-0.4	-1	-3	+0	-8	-1.2	-1	-2.1	-5	-1	-2	+	-8	-28	-1	-37
5 Minimum price 45p	-1.0	-4	-6	+0	-2.0	-2.8	-3	-5.1	-12	-3	-5	+	-19	-62	-3	-84
6 Minimum price 50p	-1.9	-7	-1.0	+0	-3.6	-5.0	-6	-9.3	-21	-6	-8	+	-35	-106	-6	-147
7 Minimum price 55p	-2.9	-1.2	-1.6	+0	-5.7	-7.9	-1.0	-14.5	-33	-10	-13	+	-56	-162	-9	-227
8 Minimum price 60p	-4.1	-1.7	-2.3	+0	-8.1	-11.0	-1.4	-20.5	-46	-14	-19	+	-79	-223	-13	-315
9 Minimum price 65p	-5.4	-2.2	-3.0	+0	-10.6	-14.5	-1.9	-27.0	-60	-18	-25	+	-104	-288	-17	-409
10 Minimum price 70p	-6.7	-2.8	-3.8	+0	-13.4	-18.3	-2.3	-34.0	-75	-23	-32	+	-131	-356	-22	-508
11 Total off-trade discount ban	-1.3	-6	-9	+0	-2.8	-3.7	-5	-6.9	-15	-5	-7	+	-27	-69	-4	-100
12 Minimum price 25p + total off-t discount ban	-1.3	-6	-9	+0	-2.8	-3.6	-5	-6.9	-14	-5	-7	+	-26	-70	-5	-100
13 Minimum price 30p + total off-t discount ban	-1.3	-6	-9	+0	-2.8	-3.7	-5	-7.0	-14	-5	-7	+	-27	-71	-5	-102
14 Minimum price 35p + total off-t discount ban	-1.4	-6	-9	+0	-3.0	-3.9	-5	-7.4	-15	-5	-8	+	-28	-76	-5	-109
15 Minimum price 40p + total off-t discount ban	-1.7	-7	-1.1	+0	-3.5	-4.7	-6	-8.7	-19	-6	-9	+	-33	-93	-5	-131
16 Minimum price 45p + total off-t discount ban	-2.2	-9	-1.3	+0	-4.4	-6.0	-7	-11.1	-24	-7	-11	+	-42	-120	-7	-169
17 Minimum price 50p + total off-t discount ban	-2.9	-1.1	-1.7	+0	-5.7	-7.8	-9	-14.4	-32	-9	-14	+	-55	-157	-9	-220
18 Minimum price 55p + total off-t discount ban	-3.7	-1.5	-2.2	+0	-7.4	-10.2	-1.2	-18.8	-42	-12	-18	+	-72	-203	-11	-286
19 Minimum price 60p + total off-t discount ban	-4.8	-1.9	-2.7	+0	-9.4	-12.9	-1.6	-23.9	-53	-16	-23	+	-92	-256	-15	-363
20 Minimum price 65p + total off-t discount ban	-5.9	-2.4	-3.4	+0	-11.8	-16.1	-2.0	-29.9	-66	-20	-28	+	-115	-315	-19	-449
21 Minimum price 70p + total off-t discount ban	-7.2	-3.0	-4.2	+0	-14.4	-19.6	-2.5	-36.4	-81	-25	-35	+	-140	-379	-23	-542

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 Minimum price 25p	+0.1	-0	-0	+0	+1	+3	-0	+4	+1	-	-	+	+1	+4	-	+5
2 Minimum price 30p	+0.1	-0	-0	+0	-0	+2	-0	+1	+	-	-	+	-	+1	-	+1
3 Minimum price 35p	-0.1	-1	-1	+0	-2	-2	-1	-5	-2	-1	-1	+	-3	-8	-1	-12
4 Minimum price 40p	-0.5	-2	-2	+0	-1.0	-1.3	-2	-2.5	-9	-2	-2	+	-13	-42	-2	-57
5 Minimum price 45p	-1.3	-5	-5	+0	-2.2	-3.2	-4	-5.7	-23	-4	-4	+	-30	-99	-3	-133
6 Minimum price 50p	-2.3	-8	-8	+0	-3.8	-5.6	-6	-10.1	-40	-6	-7	+	-54	-175	-6	-235
7 Minimum price 55p	-3.5	-1.2	-1.2	+0	-5.9	-8.7	-9	-15.5	-63	-10	-10	+	-83	-270	-8	-361
8 Minimum price 60p	-4.9	-1.6	-1.7	+0	-8.2	-12.2	-1.2	-21.6	-87	-13	-14	+	-115	-373	-11	-499
9 Minimum price 65p	-6.3	-2.1	-2.2	+0	-10.6	-15.7	-1.6	-27.9	-112	-17	-19	+	-148	-476	-15	-639
10 Minimum price 70p	-7.7	-2.5	-2.8	+0	-12.9	-19.3	-1.9	-34.2	-137	-21	-23	+	-181	-579	-18	-778
11 Total off-trade discount ban	-1.4	-5	-6	+0	-2.5	-3.7	-4	-6.6	-26	-4	-5	+	-35	-113	-4	-151
12 Minimum price 25p + total off-t discount ban	-1.5	-5	-6	+0	-2.6	-3.7	-4	-6.7	-26	-4	-5	+	-35	-114	-4	-153
13 Minimum price 30p + total off-t discount ban	-1.5	-5	-6	+0	-2.6	-3.8	-4	-6.8	-26	-5	-5	+	-36	-116	-4	-156
14 Minimum price 35p + total off-t discount ban	-1.6	-6	-6	+0	-2.8	-4.0	-5	-7.3	-28	-5	-5	+	-38	-123	-4	-166
15 Minimum price 40p + total off-t discount ban	-1.9	-7	-8	+0	-3.4	-4.9	-5	-8.8	-34	-6	-6	+	-46	-149	-5	-200
16 Minimum price 45p + total off-t discount ban	-2.5	-9	-1.0	+0	-4.3	-6.4	-7	-11.4	-45	-7	-8	+	-60	-196	-6	-262
17 Minimum price 50p + total off-t discount ban	-3.3	-1.1	-1.2	+0	-5.7	-8.4	-9	-15.0	-60	-9	-10	+	-79	-259	-8	-346
18 Minimum price 55p + total off-t discount ban	-4.4	-1.4	-1.6	+0	-7.4	-11.0	-1.1	-19.5	-78	-12	-13	+	-104	-337	-10	-451
19 Minimum price 60p + total off-t discount ban	-5.6	-1.8	-2.0	+0	-9.4	-14.0	-1.4	-24.9	-100	-15	-17	+	-132	-426	-13	-571
20 Minimum price 65p + total off-t discount ban	-6.9	-2.2	-2.5	+0	-11.6	-17.3	-1.8	-30.6	-123	-19	-21	+	-162	-520	-16	-699
21 Minimum price 70p + total off-t discount ban	-8.2	-2.7	-3.0	+0	-13.9	-20.7	-2.1	-36.6	-147	-22	-25	+	-194	-616	-19	-829

Table 3.18: Summary of estimated financial value of harm reductions – 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	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
1 Minimum price 25p	-0.1	-1	-1	-2.3	-2.6	-3	-0	-2.9	-2	-	-1	-19	-23	-9	-	-32
2 Minimum price 30p	-0.2	-2	-2	-4.8	-5.4	-6	-1	-6.1	-5	-1	-1	-40	-47	-19	-1	-67
3 Minimum price 35p	-0.5	-3	-3	-9.0	-10.2	-1.3	-2	-11.7	-10	-3	-3	-75	-91	-41	-2	-133
4 Minimum price 40p	-1.0	-6	-5	-15.3	-17.4	-2.6	-4	-20.4	-21	-5	-4	-127	-157	-81	-4	-242
5 Minimum price 45p	-1.7	-9	-8	-23.2	-26.6	-4.4	-6	-31.6	-35	-8	-7	-193	-243	-140	-6	-388
6 Minimum price 50p	-2.5	-1.3	-1.2	-32.1	-37.1	-6.5	-9	-44.5	-52	-11	-10	-267	-340	-209	-8	-558
7 Minimum price 55p	-3.4	-1.8	-1.6	-41.6	-48.3	-8.8	-1.2	-58.3	-72	-15	-13	-346	-445	-287	-11	-742
8 Minimum price 60p	-4.4	-2.2	-2.0	-50.0	-58.5	-11.3	-1.5	-71.3	-91	-18	-16	-416	-541	-365	-14	-920
9 Minimum price 65p	-5.2	-2.6	-2.3	-56.4	-66.5	-13.5	-1.8	-81.7	-107	-22	-19	-469	-617	-434	-16	-1,068
10 Minimum price 70p	-6.1	-3.1	-2.7	-62.6	-74.4	-15.7	-2.1	-92.2	-124	-26	-22	-521	-693	-504	-19	-1,216
11 Total off-trade discount ban	-1.0	-4	-4	-11.3	-13.1	-2.5	-3	-15.9	-22	-3	-3	-94	-123	-86	-2	-211
12 Minimum price 25p + total off-t discount ban	-1.1	-5	-5	-13.3	-15.3	-2.8	-3	-18.4	-24	-4	-4	-111	-142	-94	-3	-239
13 Minimum price 30p + total off-t discount ban	-1.2	-5	-5	-15.3	-17.5	-3.1	-4	-20.9	-26	-4	-4	-127	-161	-102	-3	-267
14 Minimum price 35p + total off-t discount ban	-1.4	-7	-6	-18.4	-21.1	-3.6	-4	-25.2	-30	-6	-5	-153	-194	-119	-4	-317
15 Minimum price 40p + total off-t discount ban	-1.8	-9	-8	-23.3	-26.8	-4.6	-6	-32.0	-38	-7	-7	-194	-246	-151	-6	-402
16 Minimum price 45p + total off-t discount ban	-2.3	-1.2	-1.1	-29.5	-34.1	-6.0	-8	-40.9	-49	-10	-9	-245	-313	-197	-7	-517
17 Minimum price 50p + total off-t discount ban	-3.0	-1.5	-1.4	-36.8	-42.7	-7.8	-1.0	-51.5	-63	-13	-11	-306	-393	-254	-9	-656
18 Minimum price 55p + total off-t discount ban	-3.8	-1.9	-1.7	-44.8	-52.3	-9.9	-1.3	-63.4	-80	-16	-14	-373	-483	-320	-12	-815
19 Minimum price 60p + total off-t discount ban	-4.7	-2.3	-2.1	-52.2	-61.3	-12.1	-1.6	-74.9	-97	-19	-17	-434	-568	-390	-14	-972
20 Minimum price 65p + total off-t discount ban	-5.5	-2.7	-2.4	-58.1	-68.6	-14.1	-1.8	-84.6	-112	-23	-20	-483	-638	-454	-17	-1,109
21 Minimum price 70p + total off-t discount ban	-6.3	-3.2	-2.8	-64.0	-76.2	-16.3	-2.1	-94.6	-128	-26	-23	-532	-710	-521	-19	-1,251

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

3.2 SENSITIVITY ANALYSES

This section presents the results of the 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 concerning 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 concerning the risk functions for coronary heart disease; (v) alternative measures of attribution of crimes to alcohol consumption; and (vi) adjustment for unrecorded consumption in survey data. Detailed results tables for the sensitivity analyses are provided in Appendices 8 to 13.

3.2.1 Probabilistic sensitivity analysis

For illustrative purposes, PSA results have been generated for three policy scenarios: a 45p minimum price in isolation, an off-trade discount ban in isolation, and the combination of a 45p minimum price and an off-trade discount ban. Each analysis is based on 100 alternative versions of the 16 x 16 moderate elasticity matrix and 16 x 16 hazardous/harmful elasticity 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	Drink Type	Lower 95% CI	Upper 95% CI
45p Min Price	All	-3.4%	-3.6%
	Moderate	-1.4%	-1.7%
	Hazardous	-2.5%	-2.9%
	Harmful	-7.1%	-7.5%
Off-trade discount ban	All	-3.0%	-3.1%
	Moderate	-2.0%	-2.1%
	Hazardous	-3.3%	-3.4%
	Harmful	-3.8%	-3.9%
45p minimum price + off-trade discount ban	All	-5.8%	-6.1%
	Moderate	-3.1%	-3.5%
	Hazardous	-5.4%	-5.9%
	Harmful	-9.6%	-10.0%

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 are for a 45p 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 45p minimum price and an off-trade discount ban than moderate drinkers. These results are similar to those presented in the original and previous reports.

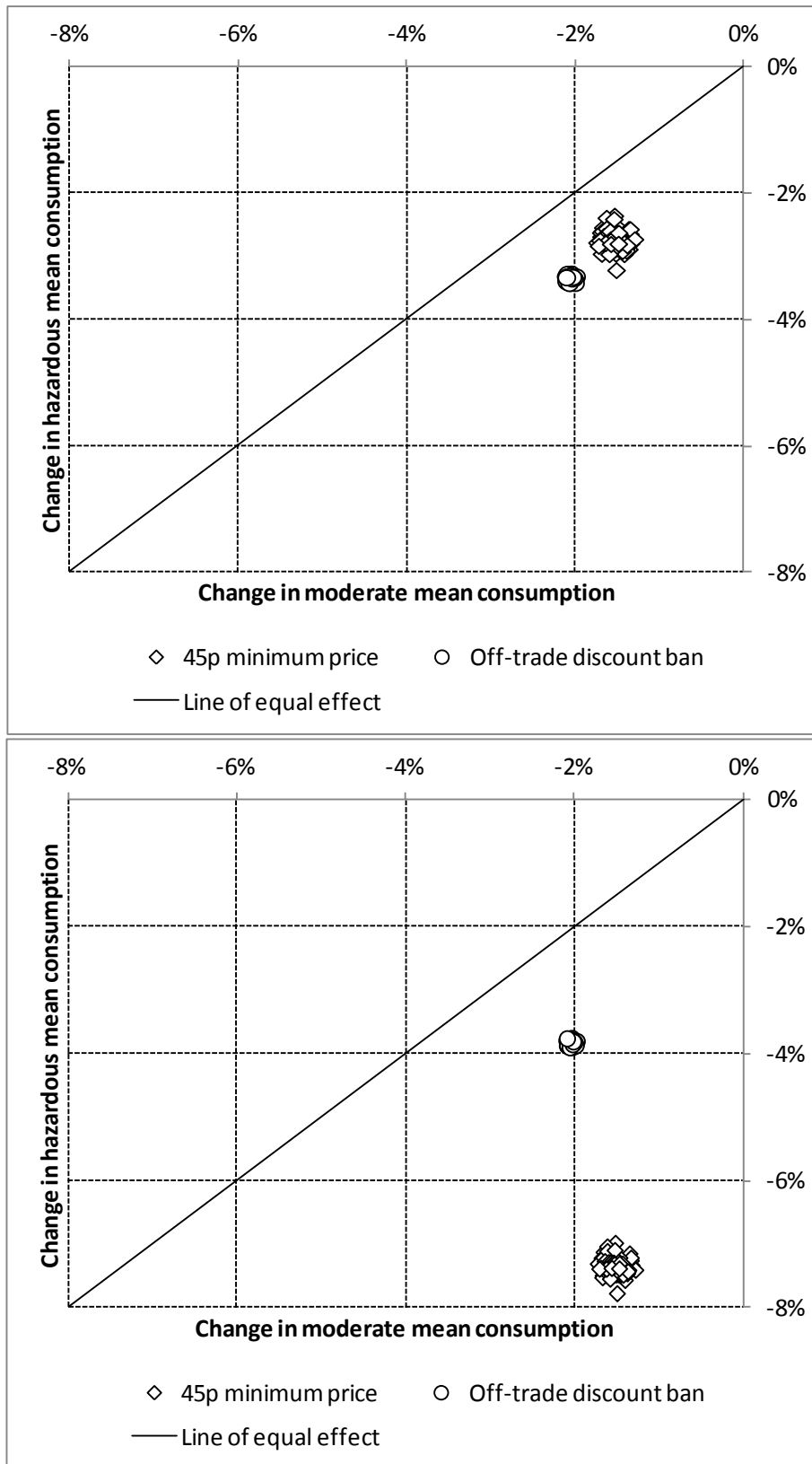


Figure 3.7: Scatter plot of PSA results, showing relative change in consumption by (a) moderate drinkers versus hazardous drinkers; (b) moderate drinkers versus harmful drinkers

3.2.2 Moderate versus heavy drinkers

Results are also similar to the original and the previous reports for the scenarios in which hazardous and harmful drinkers are assumed to be one third less responsive to price changes than moderate drinkers. Estimated policy effectiveness in terms of overall harm reduction is reduced compared with the base case. 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 drinkers' 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 in combination with an off-trade discount ban, estimates of the impact on consumption 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 a greater reduction in harmful drinkers' consumption in response to minimum price policies. This effect arises because harmful drinkers are estimated from the LCF/EFS data to purchase more of the types of alcohol that is impacted by minimum price policies.

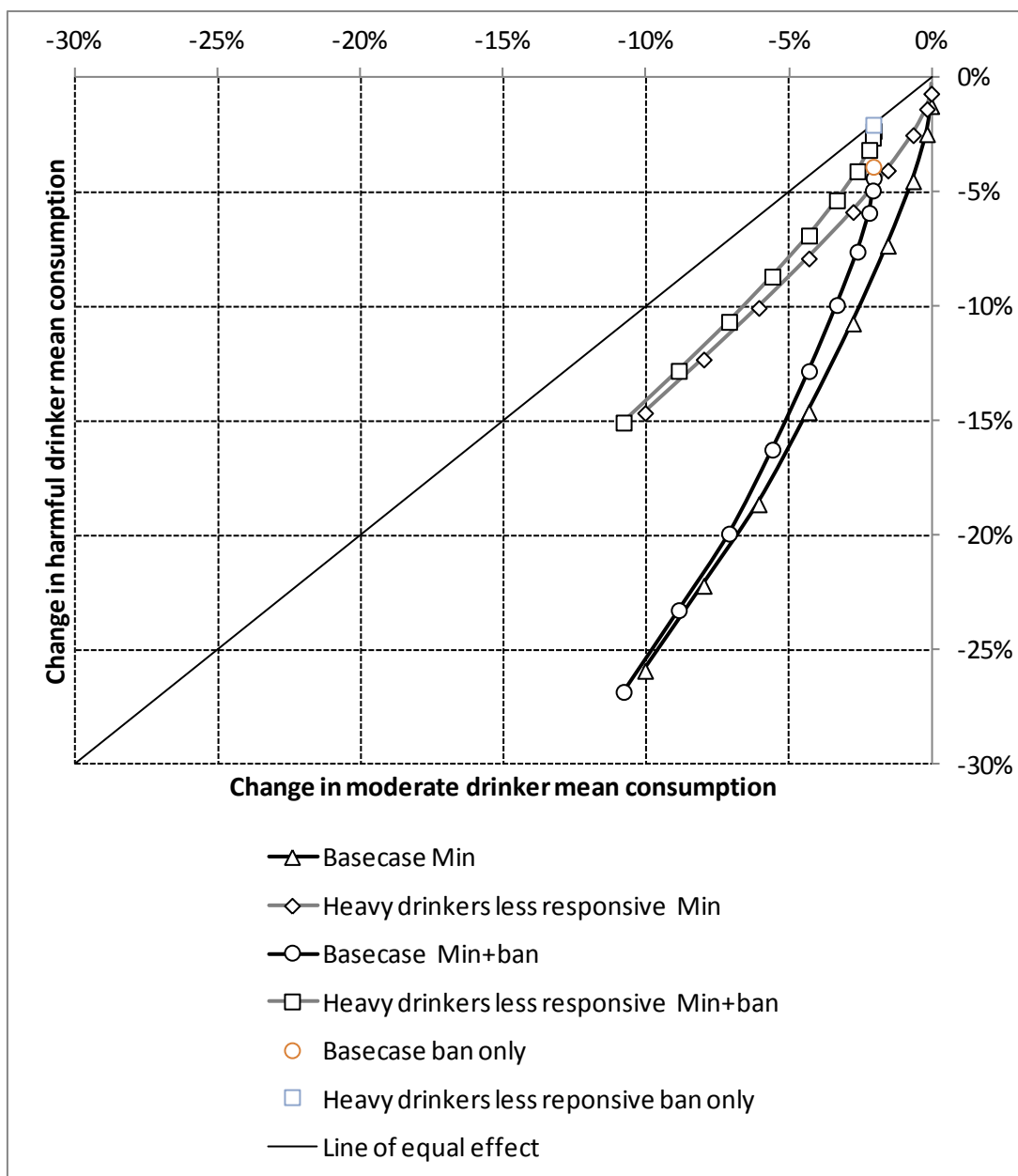


Figure 3.8: Moderate versus heavy drinker effectiveness estimates for minimum price policies (inclusive and exclusive of an off-trade discount ban)

3.2.3 Preferences for off-trade versus on-trade consumption

The Scottish Nielsen 2010 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 LCF/EFS data. 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 in Figure 3.9, and are comparable to those in the original and the previous reports.

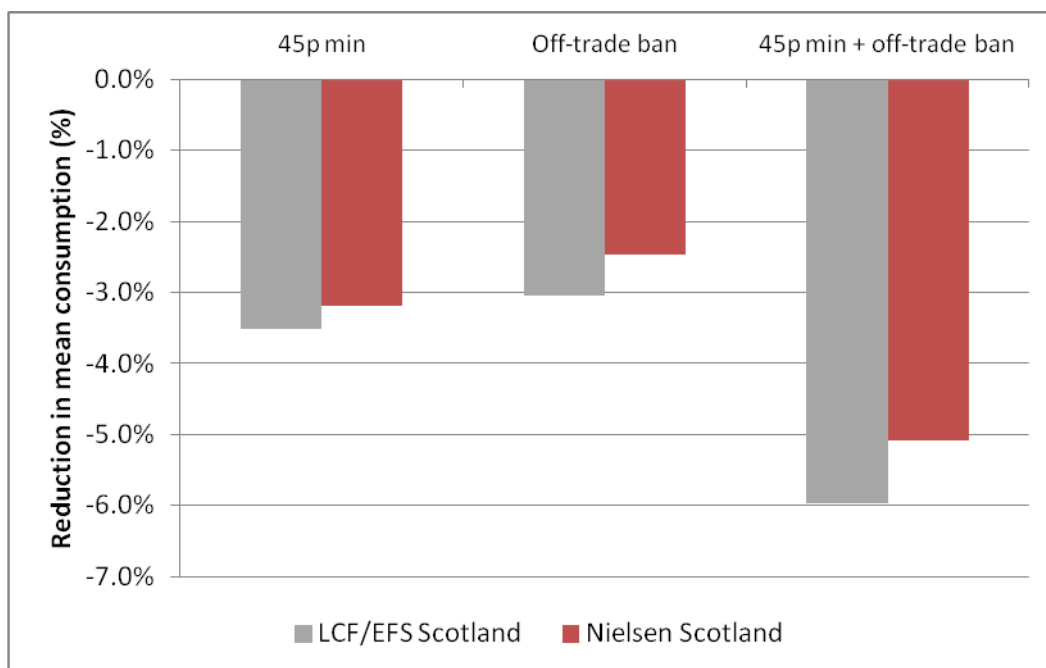


Figure 3.9: Impact of alternative assumptions for off-trade versus on-trade preferences

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 greater protective effect for 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 results remain very similar to the original and the previous reports. The choice of risk function has greater impact at higher minimum prices (where the impact on consumption, and therefore impact on risk levels, is greater).

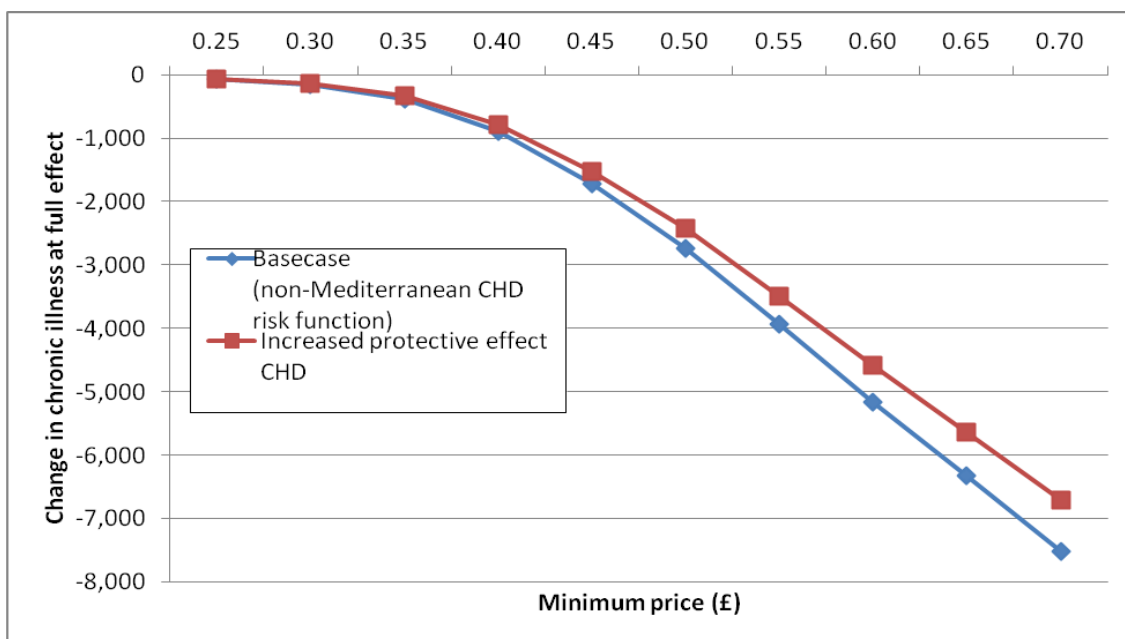


Figure 3.10: Change in prevalence of chronic illness in moderate drinkers for minimum price policies (using alternative risk functions for coronary heart disease)

3.2.5 Alternative crime attributable fractions

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. Again, the results are broadly similar to the original and the previous reports.

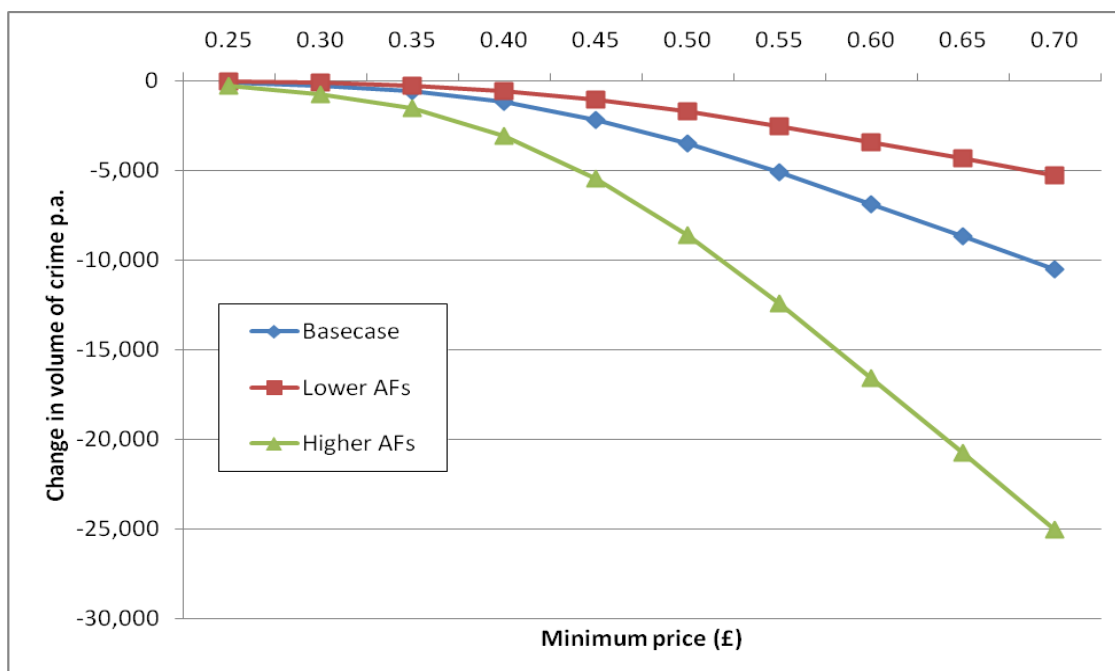


Figure 3.11: Change in overall volume of crimes per annum for minimum price policies, using alternative assumptions for the attribution of crimes to alcohol consumption

3.2.6 Adjustment for unrecorded consumption in survey data

It is widely recognised that consumption estimates based on population survey data such as the SHeS normally under estimate the true level of alcohol consumption (Nelson et al, 2010). Table 2.10 shows that the SHeS only covers around 50-60% of the consumption estimated from the Nielsen sales data from the years 2003 to 2010 and the coverage appears to be decreasing over time. A new baseline consumption has been constructed which accounts for the missing and under-represented populations and other sources of potential bias in the SHeS 2010 survey data. The revised SHeS 2010 has also been uplifted to 90% of the Nielsen sales data by assuming that the population alcohol consumption follows the gamma distribution. If the alternative higher baseline consumption is used, a larger proportion of the baseline mortalities and hospital admissions will be expected to be attributed to alcohol for those health conditions that are partially attributable to alcohol. The impact of using the alternative baseline consumption on mortalities and hospital admissions are presented in Figures 3.12 to 3.13. Please note the drinking group of a modelled individual (i.e. moderate, hazardous and harmful) is still based on their original self reported consumption in SHeS, because the price distributions and the elasticities are both based on the unadjusted consumption in the LCF/EFS.

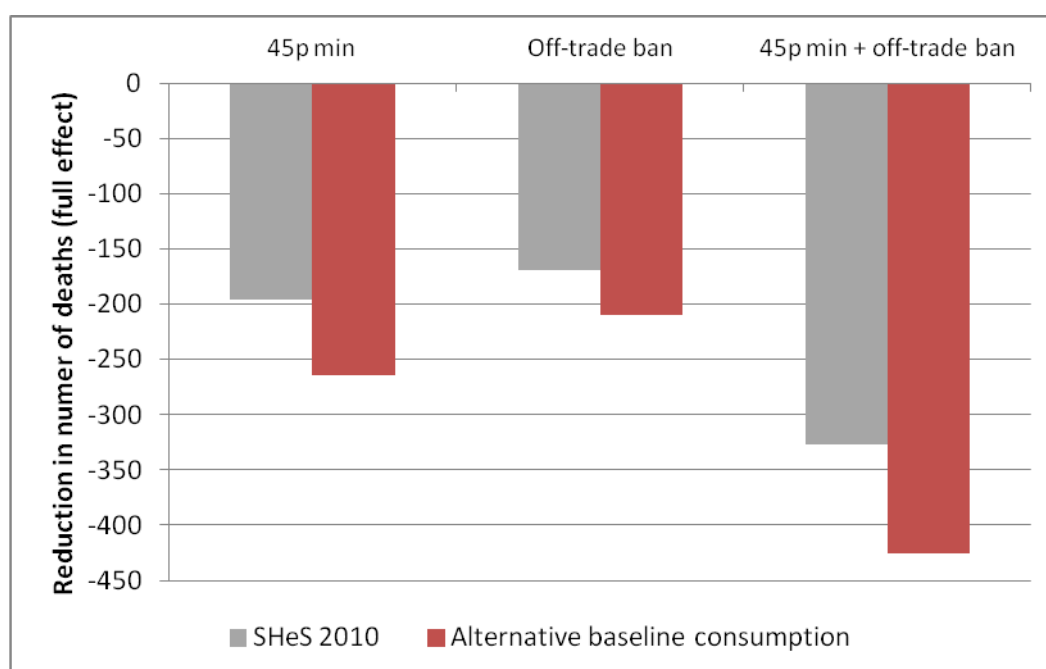


Figure 3.12: The impact of using the alternative baseline consumption on mortality reductions

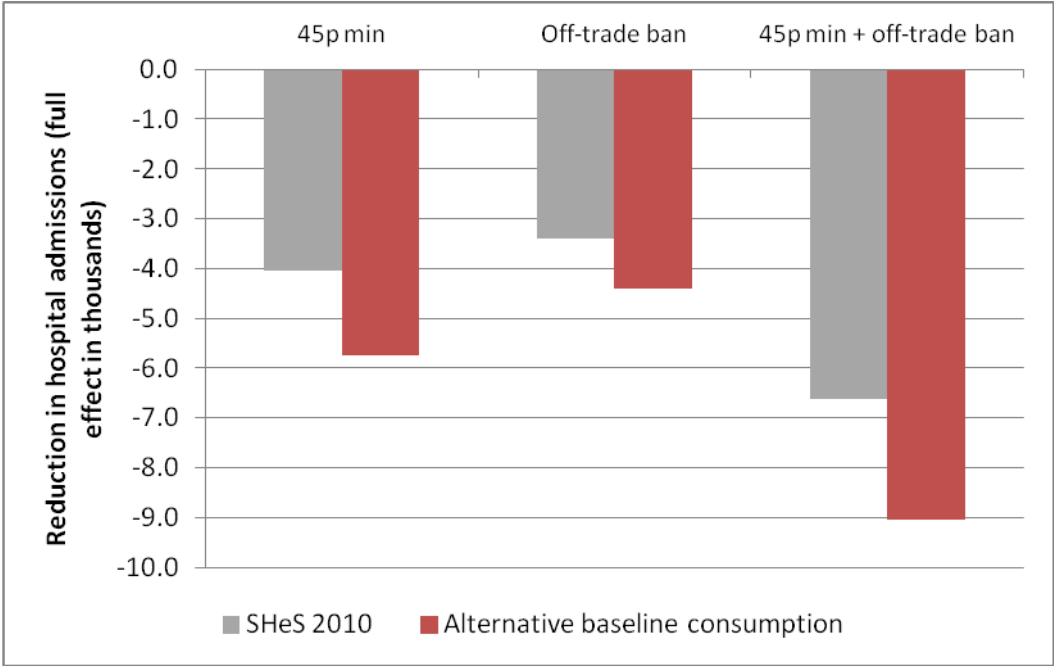


Figure 3.13: The impact of using the alternative baseline consumption on hospital admission reductions

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 from the 2010 SHeS, purchase data from the LCF 2001/2 to 2009, market research data on the 2010 price distribution of off-trade alcohol, and updated mortality (2010), person specific hospitalisation (2009/10), crime (2009/10) and workplace (2010) statistics, shows results which are broadly similar to those presented in the previous April 2010 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	-0.4%	-3.4%
35p	-0.8%	-3.7%
40p	-1.9%	-4.6%
45p	-3.5%	-6.0%
50p	-5.7%	-7.8%
55p	-8.3%	-10.0%
60p	-11.1%	-12.5%
65p	-14.0%	-15.1%
70p	-16.9%	-17.9%

- M3. A total ban on off-trade discounting is estimated to change overall consumption by -3.0%. 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. 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. Scotland implemented a quantity-based discount ban (on offers such as 'buy three for the price of two') in October 2011. The results reported here may therefore 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

- M5. Low minimum price thresholds (e.g. 25p per unit) have little impact in reducing harmful outcomes.
- M6. As the minimum price threshold increases, alcohol-related hospital admissions and deaths are estimated to decrease. For example, a 30p threshold plus discount ban is estimated to reduce annual hospital admissions by 3,700 at full effect, compared to 5,100 and 8,600 for 40p and 50p minimum price thresholds, respectively. Regarding mortality, a 30p threshold plus discount ban is estimated to reduce annual deaths by 183 at full effect, compared to 249 and 427 for 40p and 50p minimum price thresholds, respectively. The majority of the health harm reductions are for chronic diseases. Most of the prevented deaths occur in harmful drinkers as defined in the model.
- M7. As the minimum price threshold increases, alcohol-related crimes are estimated to decrease: for example, -2,900 offences per annum for a 40p threshold (with discount ban) compared to -4,700 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 be reduced proportionately less than health-related harms: e.g. for a 40p minimum price with discount ban, hospital admissions at full effect are estimated to decrease by 7.8% whilst crimes decrease by 1.7%; and for a 50p minimum price with discount ban, hospital admissions and crime at full effect are estimated to decrease by 13.3% and 2.9% respectively. 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 have a greater impact in the off-trade sector.

- M9. As the minimum price threshold increases, absenteeism from work is estimated to decrease: a minimum price of 40p with discount ban is estimated to reduce days of absence from work by approximately 28,800 per annum, whereas for 50p the reduction is estimated to be 46,800.
- M10. As the minimum price threshold increases, unemployment due to alcohol problems is estimated to decrease (in the model unemployment is a risk factor only for harmful drinkers). For a 40p threshold (with discount ban), 900 avoided cases of unemployment are estimated per annum; for 50p the figure is 1,500. 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 3.7%; for a 50p minimum price with discount ban policy, overall spending increases by 5.2%.
- 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 £83m per annum; and for a 50p minimum price with combined discount ban, total retailer revenue is estimated to increase by £125m 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 £7m; and for a 50p minimum price plus discount ban, total receipts are estimated to reduce by £16m.

Valuation of harm reductions

M14. As the minimum price threshold increases, the financial value of harm reductions increases: the overall cumulative discounted financial value of harm reduction over ten years is estimated at £737m for a 40p minimum price plus discount ban policy; this valuation nearly doubles for a 50p threshold (£1.2bn). The valuation continues to increase steeply as the threshold is increased.

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 £1227m harm reduction in the 50p 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 £20m over 10 years for a 40p minimum price plus discount ban compared to £32m for a 50p threshold. Similarly the value of quality adjusted life years lost by victims of crime changes from around £17m to £27m (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 £8, £45 and £111 respectively (corresponding to an average additional spend per week of £0.15 for moderate drinkers, £0.86 for hazardous drinkers and £2.13 for harmful drinkers). For a 50p minimum price combined with a discount ban, the figures for moderate, hazardous and harmful are estimated at £11,

£65 and £148 respectively which equates to an additional spend per week of £0.22, £1.25 and £2.83.

- 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. 51% of the reduction in hospital admissions estimated for a 50p minimum price plus discount ban policy) even though these represent a small minority (5% and 3% for male and female respectively) of all drinkers.
- M19. Reductions in crime are spread more evenly between the three drinker groups than for health-related outcomes. For example, for a 40p minimum price plus off-trade discount ban, the reduction in crime volumes per annum is estimated to comprise 800 from moderate drinkers, 800 from hazardous drinkers and 1,100 from harmful drinkers. The equivalent figures for a 50p minimum price plus discount ban are 1,300, 1,300 and 1,900 fewer crimes per annum.
- M20. The absolute contribution of the three drinker groups to reductions in days of absence is spread evenly across groups, for example, a 40p minimum price plus off-trade discount ban has an estimated reduction in absenteeism of 11,700 days p.a. for moderate drinkers, 8,300 for hazardous drinkers and 8,600 for harmful drinkers. The equivalent figures for a 50p minimum price with discount ban are 18,300, 13,700 and 14,500 fewer days of absence per annum. 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 £737m and £1227m estimated value of harm reduction for a 40p and 50p minimum price in combination with a discount ban, just over half (£402m and £656m respectively) is from harmful drinkers.

Comparison of previous and updated modelling results

- M22. Compared to the SHeS 2008, the SHeS 2010 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 over the age of 65 for male and over the age of 75 for female increasing. The consumption of all beverage types (beer/cider, wine, spirit and RTD) decreased. The proportion of the population who are harmful

and hazardous drinkers decreased as did the mean consumption for all drinker types (moderate/hazardous/harmful) and gender groups, except for male harmful drinkers.

- M23. The market research data available from Nielsen shows price distributions for off-trade alcohol which are marginally different from those estimated in our April 2010 report. Average prices paid are slightly higher, and the proportion of alcohol purchased which is bought inexpensively, for example at a price below 45p per unit, is slightly lower than in the April 2010 report. For example, the proportions of alcohol sold below 45p for off-trade beer/cider, wine and spirit, decreased from 72%, 53% and 76% to 69%, 48% and 72% respectively.
- 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. 4.6% instead of 5.1% consumption reduction for a 40p minimum price combined with an off-trade discount ban; and 7.8% instead of 8.7% for a 50p 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 Relationship between price and consumption

Consumption

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 the survey).

Consumption estimates from population surveys such as SHeS are normally lower than customs or sales data which is normally regarded as the “gold standard”. Using SHeS 2003, 2008, 2009 and 2010 and the Nielsen sales data, we estimated that the alcohol consumption coverage of SHeS ranges from about 51% to 63% and is gradually decreasing over the years. A new sensitivity analysis was performed which adjusted the SHeS 2010 surveyed consumption to match Nielsen sales data. The results of the sensitivity analysis demonstrate a greater reduction of alcohol consumption and alcohol-related harms across the range of policies modelled. However, to increase the robustness and the validity of the approach,

further research on the calibration method and on the consumption measures used to derive the relative risk functions is needed.

Prices

Information on prices paid and the proportion of spending in the off-trade and on-trade is also taken from a self-reported household survey – the LCF/EFS. Data relating to 21,959 individual alcohol purchasing transactions for 4,732 Scottish residents were available for the period 2001/02 to 2009. We now have more up to date market research data from 2010 providing off-trade price distributions for Scotland. This replaces the estimates of Scottish prices used in the previous report, which were based on the LCF/EFS 2001/2 to 2005/6 and the off-trade market research data from 2009. There is no Scotland specific on-trade market research data available, therefore, as in the original and the previous models, the England on-trade CGA data for 2009 was used. However, due to the increase in sample size of LCF/EFS data, the baseline on-trade prices in the new model use the Scottish records in the LCF/EFS, but adjusted according to the CGA 2009 data, the differences between the Scotland and England records in the LCF/EFS and the high level mean price per unit data for Scotland based on Nielsen market research data.

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 for 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. This does still, however, require assumptions to be made about the relationship between the number of different types of beverage offered and the actual quantity of ethanol consumed.

The baseline year of the model is 2010 and the main model inputs including alcohol consumption, prices (inflated to 2010 prices) and mortality all relate to 2010 while person-specific hospital admissions relates to financial year 2009/10. The value added tax (VAT) rate was increased from 17.5% to 20% in January 2011 throughout the UK. The tax change may increase the prices of all alcohol assuming a positive tax pass through rate. The potential implication of the tax event is that minimum price policies may be less effective because less cheaper alcohol is available. The 2011 Nielsen price distributions were not

available and there is limited research on the tax pass through rates, especially on the pattern of tax pass through based on the alcohol prices (e.g. does low priced alcohol have lower/higher tax pass through rates than high priced alcohol?). Therefore, we haven't considered this tax change event in the current model.

Promotions

We have not been able to obtain additional data on discount promotions, beyond that used for the original report. Detailed quantitative information on the nature of price-based promotions in the off-trade is generally quite limited. For England & Wales, data was available on the prevalence and magnitude of short-term discounts on alcoholic beverages in the large grocery chains. However no data was 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 LCF/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'.

Since the model was last updated in 2010 the Scottish Parliament has passed the Alcohol etc. (Scotland) Act 2010. The Act which came into force on 1 October 2011, introduced an off-trade quantity discount ban (such as "3 for 2" and "3 bottles for £10") but did not explicitly ban straight discounts from list price. All the model inputs, including the prevalence and magnitude of off-trade discounts for England & Wales, pre-date the introduction of the Act. Due to the reasons explained in the previous paragraph, the existing off-licences discount data does not allow us to separate quantity discount ban from straight list price discounts. Therefore, at this time, it was not possible to model the potential impact of the exact form of

quantity-based discount ban implemented in Scotland from the data available. Our analysis remains to be modelling a total off-trade discount ban.

Price Elasticities

This report uses the same price elasticity matrices as the original and the previous reports, which are based on econometric analysis of England LCF/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 LCF/EFS, which is cross-sectional and collects data on purchasing-only, is likely to remain the main UK dataset for investigating alcohol purchasing 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 unaccounted for.

4.2.2 Relationship between consumption and harmful outcomes

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

Mortality and person specific hospitalisation 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 have a significant impact on the overall results.

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 individuals aged up to 25 years. The sample size for each offence 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 specific to Scotland.

In this model, we have updated the baseline recorded crime volumes and multipliers for Scotland. As before, offences are coded differently between Scotland and England and a bespoke mapping has had to be created between the two 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 the development and testing of alternative methods and models, as well as validation against future data after real policy implementations is strongly recommended.

A future economic appraisal could also potentially extend to other areas not included in 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.

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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	0.21	0.00	0.24	0.00	0.29	0.00	0.04
0.15	0.20	0.21	0.28	0.24	0.26	0.29	0.30	0.04	0.04
0.20	0.25	0.28	0.34	0.26	0.29	0.30	0.33	0.04	0.04
0.25	0.30	0.34	0.42	0.29	0.37	0.33	0.38	0.04	0.11
0.30	0.35	0.42	0.50	0.37	0.41	0.38	0.44	0.11	0.32
0.35	0.40	0.50	0.58	0.41	0.45	0.44	0.53	0.32	0.60
0.40	0.50	0.58	0.67	0.45	0.54	0.53	0.68	0.60	0.67
0.50	0.60	0.67	0.83	0.54	0.64	0.68	0.79	0.67	0.82
0.60	0.70	0.83	1.01	0.64	0.72	0.79	0.95	0.82	0.93
0.70	9999.00	1.01	9999.00	0.72	9999.00	0.95	9999.00	0.93	9999.00

Appendix 2: Age/gender consumption distribution from the SHeS (2010) – Descriptive statistics

Mean 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	13.10%	11.65%	10.60%	15.32%	10.22%	13.00%	11.07%	12.36%	13.36%	17.81%	13.85%	23.16%	21.86%	39.23%	
Moderate	< 6 / 8 units	39.04%	44.69%	40.95%	49.95%	45.47%	51.27%	46.64%	51.26%	45.88%	57.06%	54.75%	60.60%	57.22%	49.83%
	? 8 / 6 units	19.33%	17.78%	19.06%	15.92%	17.05%	16.22%	16.30%	14.58%	10.73%	9.14%	4.44%	4.02%	2.17%	1.42%
Hazardous	< 6 / 8 units	5.91%	6.70%	6.84%	5.95%	7.80%	5.76%	7.76%	7.86%	10.24%	7.57%	13.87%	6.07%	14.51%	8.22%
	? 8 / 6 units	16.23%	11.96%	19.02%	9.50%	12.95%	10.69%	13.12%	10.38%	14.45%	6.24%	8.03%	4.52%	2.03%	0.85%
Harmful	< 6 / 8 units	0.00%	0.92%	0.42%	0.98%	1.40%	0.92%	0.40%	0.89%	1.68%	0.75%	1.19%	0.69%	0.72%	0.46%
	? 8 / 6 units	6.39%	6.30%	3.11%	2.39%	5.11%	2.14%	4.71%	2.66%	3.66%	1.42%	3.87%	0.94%	1.49%	0.00%
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 2010

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	13.10%	11.65%	10.60%	15.32%	10.22%	13.00%	11.07%	12.36%	13.36%	17.81%	13.85%	23.16%	21.86%	39.23%
< 6 / 8 units	44.95%	52.31%	48.21%	56.87%	54.68%	57.95%	54.80%	60.01%	57.80%	65.38%	69.80%	67.36%	72.44%	58.50%
? 8 / 6 units	41.95%	36.04%	41.19%	27.81%	35.11%	29.05%	34.13%	27.62%	28.85%	16.80%	16.35%	9.48%	5.70%	2.27%

Table A2.2: Heavy episodic drinking in Scotland in 2010

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 =				
Moderate drinker	2.137064	10.692030	4.047141	male aged 18 – 24
	2.387542	7.972773	-2.213420	male aged 25 – 34
(mean daily intake) * 2.802307 -0.1027137	1.615770	5.660110	-9.473289	male aged 35 – 44
	1.395021	6.136252	-4.968862	male aged 45 – 54
	0.476388	4.269286	-9.736018	male aged 55 – 64
Hazardous drinker	0.142696	1.516431	-13.100860	male aged 65 – 74
	-0.516965	-0.275669	-15.259930	male aged 75 +
(mean daily intake) * 0.8585831 + 1.210954	0.175285	0.840202	-13.972440	female aged 16 – 17
	1.579939	3.934808	-1.946141	female aged 18 – 24
	1.281980	4.106368	-7.634005	female aged 25 – 34
Harmful drinker	1.197309	3.290792	-9.640130	female aged 35 – 44
	1.114208	2.838913	-8.456563	female aged 45 – 54
(mean daily intake) * 0.7138373 + 14.8559	0.612024	2.009640	-13.299560	female aged 55 – 64
	0.303542	0.804190	-14.107140	female aged 65 – 74
	0.034917	-0.326729	-16.597820	female aged 75 +
R-Squared	0.2983	0.1969	0.3281	
Adjusted R-Squared	0.2963	0.1861	0.2856	
Root MSE	3.5743	6.0011	9.7011	

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															1.0E-11			
	Slope															5.9E-06			
Mental and behavioural disorders due to use	constant				1.6E-05	3.2E-06	1.6E-05	4.0E-06	1.8E-05	8.8E-06	2.1E-05	1.6E-05	1.6E-05	2.0E-05	2.3E-05	4.4E-05	3.8E-05	2.8E-05	
	Slope				1.0E-11	7.4E-07	5.3E-06	5.0E-06	2.3E-05	2.6E-05	4.1E-05	5.4E-05	9.1E-05	6.8E-05	1.2E-04	1.2E-04	1.7E-04	6.4E-05	
Degeneration of nervous system due to alcohol	constant										7.8E-07		2.2E-06		1.0E-11				
	Slope										3.3E-06		6.2E-06		5.9E-06				
Alcoholic polyneuropathy	constant																		
	Slope																		
Alcoholic myopathy	constant																		
	Slope																		
Alcoholic cardiomyopathy	constant						3.2E-06				7.8E-07		5.1E-06	3.9E-06	1.0E-11		3.3E-06		
	Slope						2.8E-06				6.7E-06		1.9E-05	9.1E-06	1.2E-05		1.3E-05		
Alcoholic gastritis	constant										1.5E-06		2.3E-06	3.9E-06	1.0E-11				
	Slope										3.1E-06		6.2E-06	9.1E-06	1.8E-05				
Alcoholic liver disease	constant				4.3E-06	1.2E-05	2.0E-05	3.6E-05	8.2E-05	1.3E-04	1.2E-04	1.3E-04	2.3E-04	1.0E-11	1.9E-04	8.2E-05	1.3E-04		
	Slope				5.0E-06	4.3E-05	6.0E-05	1.9E-04	2.7E-04	5.4E-04	4.0E-04	6.0E-04	7.7E-04	6.1E-04	6.5E-04	3.2E-04	3.4E-04		
Alcohol induced chronic pancreatitis	constant										1.5E-06	2.7E-06		1.3E-06	5.7E-06	3.3E-06			
	Slope										3.1E-06	5.2E-06		5.6E-06	1.7E-05	1.3E-05			
Excessive blood level of alcohol	constant																		
	Slope																		
Toxic effect of alcohol	constant																		
	Slope																		
Accidental poisoning by and exposure to alcohol	constant										1.1E-07								
	Slope										7.4E-07								
Intentional self poisoning by, and exposure to alcohol	constant																		
	Slope																		
Poisoning by and exposure to alcohol, undetermined	constant																		
	Slope																		
Evidence of alcohol involvement determined by other means	constant																		
	Slope																		
Evidence of alcohol involvement determined by other means	constant																		
	Slope																		

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

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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								3.0E-05				7.8E-07	2.1E-05	6.3E-06	2.2E-05	7.4E-06	2.2E-05	4.0E-06	
	Slope								1.0E-11				3.3E-06	1.0E-11	1.6E-05	3.7E-06	2.2E-05	1.2E-05	1.4E-05	
Mental and behavioural disorders due to use of alcohol	constant		1.9E-04	2.1E-04	2.4E-04	5.0E-05	3.8E-05	5.5E-05	7.7E-05	1.3E-04	1.5E-04	1.8E-04	2.0E-04	3.2E-04	4.5E-04	6.6E-04	1.2E-03	2.4E-03	8.8E-04	
	Slope		8.4E-04	1.4E-03	1.0E-03	2.9E-04	2.0E-04	4.6E-04	3.6E-04	9.7E-04	6.3E-04	1.3E-03	8.0E-04	1.8E-03	1.3E-03	3.1E-03	2.5E-03	6.7E-03	3.0E-03	
Degeneration of nervous system due to alcohol	constant							2.1E-06	3.0E-05			2.7E-05		5.6E-06	3.3E-05	6.1E-06	2.2E-05	1.1E-05	2.8E-05	
	Slope							3.2E-06	1.0E-11			1.0E-11		1.2E-05	4.2E-05	1.7E-05	1.2E-05	4.1E-05	2.9E-05	
Alcoholic polyneuropathy	constant							3.0E-05		2.7E-05	7.8E-07	2.3E-05	5.6E-06	2.5E-05	8.7E-06			4.0E-06		
	Slope							1.0E-11		1.0E-11	6.9E-06	5.5E-06	1.2E-05	1.4E-05	2.8E-05			1.4E-05		
Alcoholic myopathy	constant															3.5E-06			2.8E-05	
	Slope															5.2E-06			2.9E-05	
Alcoholic cardiomyopathy	constant							2.1E-06		1.0E-05		7.8E-07	2.1E-05	7.0E-06	2.8E-05	6.1E-06	2.2E-05			
	Slope							3.2E-06		2.1E-05		6.9E-06	1.0E-11	1.9E-05	2.3E-05	1.7E-05	1.2E-05			
Alcoholic gastritis	constant			1.4E-05	9.1E-05	2.8E-05	8.9E-05	4.1E-05	5.8E-05	3.2E-05	2.0E+00	7.8E-07	5.1E-05	2.9E-05	3.4E-05	2.8E-05	5.0E-05	2.2E-05	4.1E-05	
	Slope			5.7E-05	1.6E-05	1.2E-04	8.8E-06	1.8E-04	1.0E-04	1.6E-04	1.3E-04	2.3E-04	1.0E-04	1.2E-04	4.2E-05	1.1E-04	9.6E-05	8.3E-05	6.4E-05	
Alcoholic liver disease	constant					6.7E-06	8.9E-05	4.4E-05	1.5E-04	1.2E-04	4.4E-04	7.8E-07	4.9E-04	4.6E-04	8.0E-04	4.4E-04	9.1E-04	3.3E-04	5.2E-04	
	Slope					2.4E-05	8.8E-06	2.0E-04	4.4E-04	7.0E-04	1.4E-03	1.9E-03	1.6E-03	2.0E-03	2.6E-03	1.9E-03	2.6E-03	1.3E-03	1.4E-03	
Alcohol induced chronic pancreatitis	constant			1.4E-05		9.9E-06	5.0E-05	2.2E-05	5.2E-05	2.9E-05	6.0E-05	4.1E-05	4.3E-05	2.7E-05	4.5E-05	1.9E-05	2.2E-05	1.1E-05	0.0E+00	
	Slope			3.9E-05	5.7E-05	3.9E-05	1.0E-11	9.4E-05	7.8E-05	1.4E-04	1.1E-04	1.7E-04	7.3E-05	1.1E-04	8.0E-05	7.3E-05	1.2E-05	4.1E-05		
Excessive blood level of alcohol	constant		1.2E-05			1.6E-05				5.6E-06		5.5E-06	5.9E-06	5.0E-06		4.6E-06	6.0E-06	1.0E-11		
	Slope		7.1E-06			1.0E-11				8.3E-07		7.8E-07	1.0E-11	4.9E-07		5.6E-06	7.9E-06	3.3E-05		
Toxic effect of alcohol	constant	3.8E-05	1.1E-04	8.2E-05	2.5E-04	2.7E-05	5.7E-05	2.6E-05	8.6E-05	3.6E-05	1.4E-04	2.5E-05	1.1E-04	2.1E-05	1.1E-04	1.5E-05	1.1E-04	1.0E-11	4.3E-05	
	Slope	1.0E-04	4.8E-04	4.2E-04	1.1E-03	1.5E-04	3.5E-04	1.8E-04	4.1E-04	2.3E-04	5.9E-04	1.5E-04	4.4E-04	9.6E-05	3.2E-04	5.3E-05	2.3E-04	1.2E-04	1.3E-04	
Accidental poisoning by and exposure to alcohol	constant					7.9E-06								5.2E-06	4.7E-06	4.0E-06		5.4E-06		
	Slope					1.0E-11								1.8E-06	1.8E-06	2.4E-06		1.5E-05		
Intentional self poisoning by, and exposure to alcohol	constant	2.4E-05	1.4E-05	2.6E-05	1.5E-05			5.8E-06					6.2E-06				6.0E-06			
	Slope	2.1E-06	1.6E-05	2.1E-05	1.9E-05			1.0E-11					1.3E-06				7.9E-06			
Poisoning by and exposure to alcohol, undetermined intent	constant																			
	Slope																			
Evidence of alcohol involvement determined by blood alcohol level	constant					7.9E-06		5.8E-06	8.0E-06		6.4E-06	5.6E-06	5.9E-06			4.0E-06				
	Slope					1.0E-11		1.0E-11	1.0E-11		1.0E-11	1.0E-11	1.0E-11			2.4E-06				
Evidence of alcohol involvement determined by level intoxication	constant		1.4E-05	3.1E-05	1.5E-05	9.4E-06	1.4E-05	6.9E-06	8.5E-06	8.4E-06	7.3E-06	8.2E-06	1.1E-05	1.1E-05	8.9E-06	1.5E-05		3.8E-05	2.3E-05	
	Slope		1.6E-05	5.8E-05	1.9E-05	1.9E-05	9.8E-06	1.1E-05	2.9E-06	2.2E-05	4.1E-06	1.9E-05	2.0E-05	3.5E-05	1.4E-05	5.6E-05		1.0E-04	6.6E-05	

Table A4.2: Constant and slope of the linear absolute risk function for morbidity 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	0.15773	0.06951	0.19374	0.15623	0.27863	0.18651	0.10281	0.30184	0.15489	0.30184	0.20099	0.47428	0.66995	0.94765
Road traffic accidents - non pedestrian	0.15773	0.06951	0.19374	0.15623	0.27863	0.18651	0.10281	0.30184	0.15489	0.30184	0.20099	0.47428	0.66995	0.94765
Water transport injuries	0.11349	0.14228	0.11874	0.21056	0.17077	0.25138	0.13080	0.19579	0.19708	0.39896	0.33535	0.94428	1.11778	1.88677
Fall injuries	0.05223	0.05155	0.05464	0.07630	0.07859	0.15782	0.04525	0.15718	0.11812	0.18485	0.09718	0.11198	0.32390	0.22375
Occupational work/machine injuries	0.11349	0.14228	0.11874	0.21056	0.17077	0.25138	0.13080	0.19579	0.19708	0.39896	0.33535	0.94428	1.11778	1.88677
Firearm injuries	0.11349	0.14228	0.11874	0.21056	0.17077	0.25138	0.13080	0.19579	0.19708	0.39896	0.33535	0.94428	1.11778	1.88677
Drowning	0.02767	0.04732	0.02895	0.07003	0.04163	0.08361	0.04153	0.08327	0.06258	0.16967	0.10648	0.40159	0.35493	0.80242
Inhalation and ingestion of food causing obstruction of respiratory tract	0.11349	0.14228	0.11874	0.21056	0.17077	0.25138	0.13080	0.19579	0.19708	0.39896	0.33535	0.94428	1.11778	1.88677
Fire injuries	0.10416	0.17813	0.10898	0.26363	0.15673	0.31473	0.15635	0.31346	0.23557	0.63872	0.40085	1.51176	1.33610	3.02064
Accidental excessive cold	0.11349	0.14228	0.11874	0.21056	0.17077	0.25138	0.13080	0.19579	0.19708	0.39896	0.33535	0.94428	1.11778	1.88677
Accidental poisoning by and exposure to noxious substances	0.11349	0.14228	0.11874	0.21056	0.17077	0.25138	0.13080	0.19579	0.19708	0.39896	0.33535	0.94428	1.11778	1.88677
Intentional self-harm/Event of undetermined intent	0.04922	0.05155	0.05150	0.07630	0.07407	0.09109	0.05294	0.07599	0.07977	0.15484	0.13574	0.36649	0.17878	0.40420
Assault	0.04343	0.07428	0.10898	0.26363	0.15673	0.31473	0.15635	0.31346	0.23557	0.63872	0.40085	1.51176	1.33610	3.02064

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 in Scotland in 2009/10

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	2,381	910	1,214	202	4,248	708	2,381	420	350	70	193	39	105	21	53	11	10,923	2,381
Robbery	3,406	973	1,406	108	4,920	378	1,946	0	0	0	0	0	0	0	0	0	11,677	1,460
Total sexual offences	8,395	0	2,488	0	8,706	0	8,395	0	2,798	0	1,539	0	840	0	420	0	33,582	0
Housebreaking - Domestic dwelling	4,742	547	1,824	122	6,384	426	3,830	182	182	0	100	0	55	0	27	0	17,145	1,277
Housebreaking - Domestic non-dwelling & other	4,820	556	1,854	124	6,489	433	3,893	185	185	0	102	0	56	0	28	0	17,427	1,298
Theft from a motor vehicle	1,988	1,276	884	338	3,092	1,184	2,356	785	221	74	121	40	66	22	33	11	8,762	3,730
Theft of a motor vehicle	1,511	970	671	257	2,350	899	1,791	597	168	56	92	31	50	17	25	8	6,659	2,835
Shoplifting	482,690	309,875	214,529	82,104	750,851	287,363	572,077	190,692	53,632	17,877	29,498	9,833	16,090	5,363	8,045	2,682	2,127,411	905,789
Other theft	29,903	19,197	13,290	5,086	46,516	17,803	35,441	11,814	3,323	1,108	1,827	609	997	332	498	166	131,796	56,115
Fire-raising	3,161	677	953	100	3,337	351	1,580	226	226	0	124	0	68	0	34	0	9,483	1,355
Vandalism etc	64,629	13,849	19,491	2,052	68,219	7,181	32,314	4,616	4,616	0	2,539	0	1,385	0	692	0	193,887	27,698
Minor assault	31,975	12,226	16,301	2,717	57,053	9,509	31,975	5,643	4,702	940	2,586	517	1,411	282	705	141	146,707	31,975

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	0.009105	0.034683	0.020229	0.054769
Robbery	Other thefts	0.001777	0.006651	0.006337	0.007207
Total sexual offences	All violent offences	0.005091	0.036477	0.014203	0.051288
Housebreaking - Domestic dwelling	Other thefts	0.001777	0.006651	0.006337	0.007207
Housebreaking - Domestic non-dwelling & other	Other thefts	0.001777	0.006651	0.006337	0.007207
Theft from a motor vehicle	Vehicle related thefts	0.000000	0.012994	0.105779	0.200553
Theft of a motor vehicle	Vehicle related thefts	0.000000	0.012994	0.105779	0.200553
Shoplifting	Other thefts	0.001777	0.006651	0.006337	0.007207
Other theft	Other thefts	0.001777	0.006651	0.006337	0.007207
Fire-raising	Criminal damage	0.011311	0.120221	0.038776	0.142590
Vandalism etc	Criminal damage	0.011311	0.120221	0.038776	0.142590
Minor assault	Assault without injury	0.002075	0.038565	0.008115	0.047448

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	0.100204	0.223401	0.003648	0.002937
18 – 24	0.027022	0.032565	0.015249	0.012013
25 – 34	0.029463	0.034195	0.040480	0.033171
35 – 44	0.025585	0.023617	0.036171	0.048725
45 – 54	0.017962	0.012710	0.072457	0.056289
55 – 64	0.014875	0.002048	0.017027	0.014231

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 if no change in consump.
Policy Scenario														
Minimum price 25p	-0.1%	-1.0	+0.1	+0.1	+0.0	-0.8	+3.4	+1.1	+0.0	+0.4	+4.9	+0.2%	+1.33	+1.17
Minimum price 30p	-0.3%	-2.0	+0.0	+0.1	+0.0	-1.9	+7.4	+2.3	-0.1	+0.8	+10.4	+0.5%	+2.82	+2.69
Minimum price 35p	-0.6%	-3.6	-0.3	-0.4	+0.0	-4.3	+15.7	+4.2	-0.4	+1.4	+20.8	+1.0%	+5.66	+5.98
Minimum price 40p	-1.3%	-5.4	-1.3	-2.5	+0.0	-9.3	+32.3	+7.1	-1.5	+2.4	+40.2	+1.9%	+10.92	+12.89
Minimum price 45p	-2.4%	-7.6	-3.9	-5.6	+0.1	-17.1	+57.0	+10.7	-3.2	+3.6	+68.2	+3.3%	+18.51	+23.95
Minimum price 50p	-3.7%	-10.2	-7.7	-9.2	+0.1	-27.0	+86.7	+14.9	-5.6	+5.0	+101.0	+4.8%	+27.44	+38.21
Minimum price 55p	-5.4%	-13.0	-12.6	-13.3	+0.1	-38.8	+119.7	+19.5	-8.7	+6.6	+137.1	+6.6%	+37.22	+55.37
Minimum price 60p	-7.2%	-16.0	-18.2	-17.7	+0.1	-51.8	+152.4	+24.3	-12.7	+8.2	+172.3	+8.3%	+46.78	+74.20
Minimum price 65p	-9.1%	-19.2	-24.3	-22.4	+0.2	-65.7	+183.4	+29.6	-17.7	+10.0	+205.3	+9.8%	+55.75	+94.41
Minimum price 70p	-11.2%	-22.6	-30.6	-27.2	+0.2	-80.3	+211.2	+35.9	-23.6	+11.8	+235.4	+11.3%	+63.90	+115.74
Total off-trade discount ban	-1.9%	-3.2	-8.5	-2.2	-0.1	-13.9	+51.7	+4.0	-0.7	+1.4	+56.4	+2.7%	+15.30	+22.01
Minimum price 25p + total off-t discount ban	-2.0%	-4.1	-8.4	-2.1	-0.1	-14.6	+54.5	+5.0	-0.8	+1.7	+60.4	+2.9%	+16.41	+23.03
Minimum price 30p + total off-t discount ban	-2.2%	-4.9	-8.5	-2.1	-0.1	-15.5	+57.5	+5.9	-0.9	+2.0	+64.6	+3.1%	+17.55	+24.25
Minimum price 35p + total off-t discount ban	-2.4%	-6.1	-8.8	-2.6	-0.1	-17.5	+63.8	+7.5	-1.2	+2.5	+72.5	+3.5%	+19.70	+26.83
Minimum price 40p + total off-t discount ban	-3.0%	-7.4	-9.7	-4.5	-0.0	-21.6	+76.7	+10.0	-2.3	+3.4	+87.7	+4.2%	+23.82	+32.43
Minimum price 45p + total off-t discount ban	-3.9%	-9.0	-11.7	-7.2	-0.0	-28.0	+95.5	+13.1	-4.1	+4.5	+109.0	+5.2%	+29.60	+41.28
Minimum price 50p + total off-t discount ban	-5.0%	-11.0	-14.6	-10.5	+0.0	-36.1	+118.1	+16.8	-6.4	+5.7	+134.1	+6.4%	+36.41	+52.83
Minimum price 55p + total off-t discount ban	-6.4%	-13.5	-18.6	-14.1	+0.0	-46.2	+144.0	+21.0	-9.6	+7.1	+162.5	+7.8%	+44.13	+67.28
Minimum price 60p + total off-t discount ban	-8.0%	-16.3	-23.2	-18.3	+0.0	-57.7	+170.9	+25.6	-13.6	+8.6	+191.5	+9.2%	+51.99	+83.81
Minimum price 65p + total off-t discount ban	-9.8%	-19.3	-28.6	-22.8	+0.1	-70.7	+197.7	+30.7	-18.6	+10.3	+220.1	+10.6%	+59.77	+102.47
Minimum price 70p + total off-t discount ban	-11.7%	-22.6	-34.4	-27.5	+0.1	-84.6	+222.5	+36.8	-24.6	+12.1	+246.9	+11.8%	+67.03	+122.70

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 p.a. if no change in consump.	Change in spend p.a. if no change in consump.
Policy Scenario														
Minimum price 25p	+0.0%	-0.2	+0.1	+0.1	+0.0	+0.0	+0.5	+0.5	+0.0	+0.2	+1.3	+0.2%	+0.50	+0.21
Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.0	+1.1	+1.0	+0.0	+0.3	+2.5	+0.3%	+0.96	+0.49
Minimum price 35p	-0.2%	-0.4	-0.1	+0.0	+0.0	-0.5	+2.4	+1.8	-0.1	+0.6	+4.7	+0.6%	+1.80	+1.21
Minimum price 40p	-0.7%	-0.6	-0.6	-0.8	+0.0	-2.0	+5.3	+2.8	-0.5	+0.9	+8.6	+1.1%	+3.31	+3.03
Minimum price 45p	-1.5%	-0.8	-1.9	-2.1	+0.0	-4.8	+9.9	+4.2	-1.3	+1.4	+14.2	+1.9%	+5.51	+6.27
Minimum price 50p	-2.8%	-1.3	-3.8	-3.5	+0.0	-8.6	+15.8	+5.8	-2.5	+2.0	+21.1	+2.8%	+8.19	+10.78
Minimum price 55p	-4.3%	-1.8	-6.4	-5.3	+0.0	-13.4	+22.5	+7.7	-3.9	+2.6	+28.8	+3.8%	+11.17	+16.56
Minimum price 60p	-6.1%	-2.4	-9.3	-7.2	+0.0	-18.9	+29.2	+9.6	-5.8	+3.2	+36.3	+4.7%	+14.06	+23.11
Minimum price 65p	-8.0%	-3.1	-12.5	-9.4	+0.0	-24.9	+35.4	+11.7	-8.0	+3.9	+43.0	+5.6%	+16.65	+30.28
Minimum price 70p	-10.0%	-3.8	-15.9	-11.6	+0.1	-31.3	+40.5	+14.0	-10.5	+4.6	+48.6	+6.3%	+18.82	+37.94
Total off-trade discount ban	-2.0%	-0.7	-4.6	-1.0	-0.0	-6.4	+12.0	+1.8	-1.1	+0.6	+13.2	+1.7%	+5.13	+8.31
Minimum price 25p + total off-t discount ban	-2.0%	-0.9	-4.5	-1.0	-0.0	-6.3	+12.5	+2.2	-1.1	+0.7	+14.3	+1.9%	+5.55	+8.49
Minimum price 30p + total off-t discount ban	-2.1%	-1.0	-4.5	-0.9	-0.0	-6.4	+12.9	+2.6	-1.1	+0.9	+15.3	+2.0%	+5.93	+8.73
Minimum price 35p + total off-t discount ban	-2.2%	-1.1	-4.7	-1.0	-0.0	-6.8	+13.9	+3.2	-1.2	+1.1	+17.0	+2.2%	+6.58	+9.30
Minimum price 40p + total off-t discount ban	-2.6%	-1.1	-5.2	-1.8	-0.0	-8.1	+16.2	+4.2	-1.7	+1.4	+20.1	+2.6%	+7.79	+10.81
Minimum price 45p + total off-t discount ban	-3.3%	-1.3	-6.2	-2.9	-0.0	-10.4	+19.6	+5.4	-2.4	+1.8	+24.4	+3.2%	+9.45	+13.39
Minimum price 50p + total off-t discount ban	-4.3%	-1.6	-7.6	-4.2	-0.0	-13.4	+23.8	+6.8	-3.4	+2.3	+29.5	+3.8%	+11.41	+16.96
Minimum price 55p + total off-t discount ban	-5.6%	-2.0	-9.7	-5.7	-0.0	-17.4	+28.8	+8.4	-4.8	+2.8	+35.2	+4.6%	+13.63	+21.69
Minimum price 60p + total off-t discount ban	-7.1%	-2.5	-12.1	-7.5	+0.0	-22.1	+33.9	+10.2	-6.5	+3.4	+41.0	+5.3%	+15.87	+27.30
Minimum price 65p + total off-t discount ban	-8.9%	-3.1	-14.9	-9.6	+0.0	-27.6	+38.8	+12.2	-8.7	+4.0	+46.4	+6.0%	+17.97	+33.82
Minimum price 70p + total off-t discount ban	-10.8%	-3.8	-18.0	-11.8	+0.0	-33.6	+43.0	+14.5	-11.2	+4.7	+51.0	+6.6%	+19.77	+41.00

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.
Minimum price 25p	-0.1%	-1.3	+0.0	+0.1	+0.0	-1.1	+1.2	+0.4	+0.0	+0.1	+1.8	+0.2%	+2.25	+2.03
Minimum price 30p	-0.2%	-2.7	-0.2	+0.1	+0.0	-2.7	+2.8	+0.9	+0.0	+0.3	+4.0	+0.5%	+5.01	+4.76
Minimum price 35p	-0.5%	-4.7	-0.8	-0.9	+0.0	-6.4	+6.1	+1.6	-0.0	+0.5	+8.2	+1.0%	+10.32	+10.68
Minimum price 40p	-1.0%	-7.1	-3.0	-4.6	+0.1	-14.6	+13.0	+2.7	-0.2	+0.9	+16.4	+2.0%	+20.71	+23.74
Minimum price 45p	-2.0%	-9.9	-8.4	-10.1	+0.1	-28.3	+24.1	+4.1	-0.6	+1.4	+29.0	+3.6%	+36.57	+45.77
Minimum price 50p	-3.3%	-13.0	-16.1	-16.8	+0.1	-45.9	+37.8	+5.6	-1.1	+1.9	+44.3	+5.4%	+55.75	+74.48
Minimum price 55p	-4.8%	-16.6	-26.4	-24.2	+0.1	-67.0	+53.5	+7.3	-1.8	+2.5	+61.5	+7.5%	+77.44	+109.43
Minimum price 60p	-6.4%	-20.4	-37.7	-32.2	+0.2	-90.2	+69.3	+9.1	-2.8	+3.1	+78.7	+9.7%	+99.11	+147.68
Minimum price 65p	-8.2%	-24.6	-50.1	-40.6	+0.2	-115.2	+84.8	+11.1	-4.1	+3.7	+95.5	+11.7%	+120.24	+189.00
Minimum price 70p	-10.0%	-29.2	-62.9	-49.3	+0.2	-141.2	+99.2	+13.5	-5.8	+4.4	+111.2	+13.6%	+140.09	+232.42
Total off-trade discount ban	-1.8%	-4.5	-16.9	-4.1	-0.1	-25.5	+23.8	+1.3	+0.3	+0.5	+25.9	+3.2%	+32.62	+45.20
Minimum price 25p + total off-t discount ban	-1.9%	-5.6	-16.9	-4.1	-0.1	-26.6	+24.8	+1.7	+0.3	+0.6	+27.4	+3.4%	+34.52	+47.02
Minimum price 30p + total off-t discount ban	-2.0%	-6.7	-17.1	-4.1	-0.0	-27.9	+26.0	+2.1	+0.3	+0.7	+29.1	+3.6%	+36.66	+49.24
Minimum price 35p + total off-t discount ban	-2.2%	-8.2	-17.7	-5.0	-0.0	-30.9	+28.5	+2.7	+0.2	+0.9	+32.4	+4.0%	+40.79	+53.97
Minimum price 40p + total off-t discount ban	-2.7%	-9.8	-19.6	-8.4	-0.0	-37.7	+34.1	+3.7	-0.0	+1.2	+39.0	+4.8%	+49.08	+64.67
Minimum price 45p + total off-t discount ban	-3.5%	-11.8	-23.9	-13.3	+0.0	-48.9	+42.6	+4.9	-0.4	+1.6	+48.7	+6.0%	+61.27	+82.30
Minimum price 50p + total off-t discount ban	-4.5%	-14.3	-29.9	-19.2	+0.0	-63.3	+53.0	+6.2	-1.0	+2.1	+60.3	+7.4%	+75.98	+105.46
Minimum price 55p + total off-t discount ban	-5.8%	-17.3	-38.1	-25.8	+0.1	-81.2	+65.4	+7.8	-1.8	+2.6	+74.0	+9.1%	+93.14	+134.69
Minimum price 60p + total off-t discount ban	-7.2%	-20.9	-47.5	-33.3	+0.1	-101.6	+78.4	+9.5	-2.9	+3.2	+88.2	+10.8%	+111.08	+168.10
Minimum price 65p + total off-t discount ban	-8.9%	-24.8	-58.5	-41.5	+0.1	-124.7	+92.0	+11.4	-4.3	+3.8	+102.9	+12.6%	+129.55	+206.11
Minimum price 70p + total off-t discount ban	-10.6%	-29.3	-70.3	-50.0	+0.1	-149.5	+104.9	+13.7	-6.0	+4.5	+117.1	+14.4%	+147.45	+247.20

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)	
	% 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.
Policy Scenario														
Minimum price 25p	-0.3%	-12.2	+0.4	-0.1	+0.0	-11.8	+1.7	+0.2	-0.1	+0.1	+1.8	+0.4%	+9.93	+11.83
Minimum price 30p	-0.7%	-26.2	+0.5	-0.2	+0.1	-25.9	+3.5	+0.4	-0.2	+0.1	+3.9	+0.9%	+21.46	+26.68
Minimum price 35p	-1.4%	-47.0	-0.5	-4.4	+0.2	-51.7	+7.2	+0.8	-0.4	+0.3	+7.9	+1.7%	+43.68	+57.30
Minimum price 40p	-2.5%	-71.4	-4.9	-19.0	+0.4	-94.8	+13.8	+1.4	-0.7	+0.5	+15.1	+3.3%	+83.06	+114.02
Minimum price 45p	-4.0%	-99.5	-15.3	-39.2	+0.6	-153.4	+22.7	+2.3	-1.3	+0.8	+24.6	+5.4%	+135.52	+195.11
Minimum price 50p	-5.8%	-131.0	-29.7	-62.5	+0.8	-222.3	+32.7	+3.2	-2.0	+1.1	+35.1	+7.7%	+193.51	+292.89
Minimum price 55p	-7.9%	-164.9	-48.2	-87.4	+1.1	-299.4	+43.1	+4.2	-2.9	+1.5	+45.9	+10.1%	+253.26	+403.93
Minimum price 60p	-10.0%	-200.3	-68.8	-113.7	+1.3	-381.5	+53.1	+5.2	-4.0	+1.9	+56.2	+12.4%	+309.71	+522.69
Minimum price 65p	-12.3%	-237.0	-91.3	-140.4	+1.6	-467.1	+62.2	+6.4	-5.4	+2.2	+65.5	+14.4%	+361.15	+647.32
Minimum price 70p	-14.6%	-274.8	-114.9	-167.6	+1.5	-555.8	+70.4	+7.9	-7.0	+2.7	+73.9	+16.3%	+407.56	+778.01
Total off-trade discount ban	-2.0%	-35.1	-31.0	-10.8	-0.7	-77.6	+15.5	+0.8	+0.1	+0.3	+16.7	+3.7%	+91.99	+126.30
Minimum price 25p + total off-t discount ban	-2.3%	-45.6	-30.7	-10.9	-0.7	-87.8	+16.8	+0.9	+0.1	+0.3	+18.1	+4.0%	+99.92	+136.52
Minimum price 30p + total off-t discount ban	-2.6%	-56.6	-30.7	-11.1	-0.6	-99.0	+18.2	+1.1	-0.0	+0.4	+19.7	+4.3%	+108.34	+148.18
Minimum price 35p + total off-t discount ban	-3.1%	-72.3	-31.6	-14.9	-0.5	-119.3	+20.9	+1.4	-0.2	+0.5	+22.6	+5.0%	+124.48	+171.53
Minimum price 40p + total off-t discount ban	-4.1%	-90.7	-35.3	-28.3	-0.4	-154.7	+25.9	+2.0	-0.6	+0.7	+28.0	+6.2%	+154.36	+216.69
Minimum price 45p + total off-t discount ban	-5.3%	-112.6	-43.6	-46.5	-0.2	-202.9	+32.7	+2.7	-1.2	+1.0	+35.2	+7.8%	+194.07	+281.69
Minimum price 50p + total off-t discount ban	-6.9%	-138.9	-54.9	-67.6	+0.0	-261.4	+40.5	+3.5	-1.9	+1.3	+43.4	+9.6%	+239.27	+362.74
Minimum price 55p + total off-t discount ban	-8.7%	-169.3	-69.8	-90.6	+0.2	-329.5	+49.0	+4.5	-2.8	+1.6	+52.3	+11.5%	+288.07	+459.13
Minimum price 60p + total off-t discount ban	-10.6%	-202.4	-87.2	-115.5	+0.5	-404.6	+57.6	+5.5	-4.0	+1.9	+61.0	+13.4%	+336.13	+566.26
Minimum price 65p + total off-t discount ban	-12.8%	-237.7	-107.2	-141.7	+0.7	-485.9	+65.8	+6.6	-5.4	+2.3	+69.3	+15.3%	+382.02	+683.48
Minimum price 70p + total off-t discount ban	-15.0%	-274.8	-129.0	-168.7	+0.7	-571.7	+73.3	+8.1	-7.1	+2.7	+77.0	+16.9%	+424.38	+809.01

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.	
	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																	
Minimum price 25p	+1	-0.0	+0.0	+0.0	+0.0	-4	-0.1	+0.1	-0.0	+0.1	-0.0	-0.0	-0.0	-0.1	-0.0	-0.6	-0.0
Minimum price 30p	-0	-0.0	+0.0	+0.0	+0.0	-12	-0.1	+0.0	-0.2	-0.2	-0.0	-0.0	-0.1	-0.2	-0.0	-1.4	-0.1
Minimum price 35p	-4	-0.0	-0.1	-0.1	-0.0	-31	-0.3	-0.0	-0.6	-0.8	-0.0	-0.1	-0.2	-0.3	-0.0	-3.4	-0.2
Minimum price 40p	-13	-0.1	-0.2	-0.3	-0.1	-69	-0.6	-0.2	-1.4	-2.2	-0.1	-0.2	-0.4	-0.8	-0.0	-7.6	-0.3
Minimum price 45p	-26	-0.1	-0.4	-0.7	-0.2	-129	-1.1	-0.4	-2.7	-4.1	-0.2	-0.4	-0.8	-1.5	-0.0	-14.5	-0.5
Minimum price 50p	-42	-0.2	-0.7	-1.1	-0.2	-203	-1.8	-0.7	-4.3	-6.6	-0.4	-0.7	-1.3	-2.4	-0.0	-23.9	-0.7
Minimum price 55p	-60	-0.2	-1.0	-1.6	-0.4	-287	-2.5	-1.1	-6.0	-9.5	-0.5	-1.1	-1.9	-3.5	-0.0	-35.6	-0.9
Minimum price 60p	-81	-0.3	-1.4	-2.2	-0.5	-378	-3.2	-1.5	-8.0	-12.7	-0.7	-1.5	-2.5	-4.8	-0.0	-48.8	-1.2
Minimum price 65p	-103	-0.4	-1.8	-2.8	-0.6	-474	-4.1	-1.9	-10.0	-16.1	-1.0	-1.9	-3.3	-6.2	-0.0	-63.1	-1.4
Minimum price 70p	-126	-0.5	-2.2	-3.4	-0.8	-569	-4.9	-2.4	-12.0	-19.5	-1.2	-2.4	-4.0	-7.6	-0.1	-78.1	-1.6
Total off-trade discount ban	-22	-0.1	-0.4	-0.6	-0.1	-97	-0.8	-0.4	-2.1	-3.4	-0.2	-0.5	-0.7	-1.4	-0.0	-15.4	-0.2
Minimum price 25p + total off-t discount ban	-23	-0.1	-0.4	-0.6	-0.1	-103	-0.9	-0.4	-2.2	-3.6	-0.2	-0.5	-0.8	-1.5	-0.0	-15.9	-0.3
Minimum price 30p + total off-t discount ban	-24	-0.1	-0.4	-0.7	-0.2	-109	-0.9	-0.4	-2.3	-3.8	-0.2	-0.5	-0.8	-1.5	-0.0	-16.7	-0.3
Minimum price 35p + total off-t discount ban	-26	-0.1	-0.5	-0.7	-0.2	-122	-1.1	-0.5	-2.6	-4.2	-0.3	-0.5	-0.9	-1.7	-0.0	-18.2	-0.4
Minimum price 40p + total off-t discount ban	-33	-0.1	-0.6	-0.9	-0.2	-153	-1.3	-0.6	-3.2	-5.2	-0.3	-0.6	-1.1	-2.0	-0.0	-21.7	-0.5
Minimum price 45p + total off-t discount ban	-43	-0.2	-0.7	-1.2	-0.3	-201	-1.7	-0.8	-4.3	-6.8	-0.4	-0.8	-1.4	-2.5	-0.0	-27.3	-0.7
Minimum price 50p + total off-t discount ban	-56	-0.2	-1.0	-1.5	-0.3	-261	-2.3	-1.0	-5.5	-8.8	-0.5	-1.0	-1.8	-3.3	-0.0	-34.9	-0.8
Minimum price 55p + total off-t discount ban	-72	-0.3	-1.2	-2.0	-0.4	-334	-2.9	-1.3	-7.1	-11.3	-0.7	-1.3	-2.3	-4.3	-0.0	-44.6	-1.0
Minimum price 60p + total off-t discount ban	-90	-0.3	-1.6	-2.4	-0.6	-414	-3.6	-1.7	-8.7	-14.1	-0.8	-1.7	-2.8	-5.4	-0.0	-56.1	-1.2
Minimum price 65p + total off-t discount ban	-111	-0.4	-1.9	-3.0	-0.7	-502	-4.3	-2.1	-10.6	-17.2	-1.0	-2.1	-3.5	-6.6	-0.1	-69.2	-1.5
Minimum price 70p + total off-t discount ban	-132	-0.5	-2.3	-3.6	-0.8	-594	-5.1	-2.5	-12.6	-20.5	-1.2	-2.5	-4.2	-8.0	-0.1	-83.4	-1.7

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																	
Minimum price 25p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	+0.0
Minimum price 30p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.3	+0.0
Minimum price 35p	+0	-0.0	+0.0	+0.0	+0.0	+0	-0.0	+0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.9	+0.0
Minimum price 40p	-3	-0.0	-0.1	-0.1	-0.0	-4	-0.0	-0.1	-0.2	-0.5	-0.0	-0.0	-0.1	-0.1	-0.0	-2.7	+0.0
Minimum price 45p	-7	-0.0	-0.2	-0.2	-0.1	-9	-0.1	-0.2	-0.4	-1.1	-0.1	-0.1	-0.2	-0.4	-0.0	-6.0	+0.0
Minimum price 50p	-12	-0.0	-0.3	-0.4	-0.1	-16	-0.2	-0.3	-0.7	-1.9	-0.1	-0.3	-0.4	-0.8	-0.0	-11.0	+0.0
Minimum price 55p	-19	-0.0	-0.5	-0.6	-0.2	-25	-0.3	-0.5	-1.1	-2.9	-0.2	-0.4	-0.6	-1.3	-0.0	-17.5	+0.0
Minimum price 60p	-26	-0.0	-0.7	-0.9	-0.2	-35	-0.4	-0.7	-1.6	-4.0	-0.3	-0.6	-0.9	-1.9	-0.0	-25.1	+0.0
Minimum price 65p	-34	-0.1	-0.9	-1.1	-0.3	-45	-0.6	-0.9	-2.1	-5.2	-0.4	-0.8	-1.3	-2.5	-0.0	-33.4	+0.0
Minimum price 70p	-43	-0.1	-1.1	-1.4	-0.4	-56	-0.7	-1.2	-2.6	-6.4	-0.6	-1.0	-1.6	-3.2	-0.0	-42.2	+0.0
Total off-trade discount ban	-8	-0.0	-0.2	-0.3	-0.1	-11	-0.1	-0.2	-0.5	-1.2	-0.1	-0.2	-0.3	-0.7	-0.0	-9.5	+0.0
Minimum price 25p + total off-t discount ban	-8	-0.0	-0.2	-0.3	-0.1	-11	-0.1	-0.2	-0.5	-1.2	-0.1	-0.2	-0.3	-0.7	-0.0	-9.5	+0.0
Minimum price 30p + total off-t discount ban	-8	-0.0	-0.2	-0.3	-0.1	-11	-0.1	-0.2	-0.5	-1.3	-0.1	-0.2	-0.3	-0.7	-0.0	-9.7	+0.0
Minimum price 35p + total off-t discount ban	-9	-0.0	-0.2	-0.3	-0.1	-12	-0.1	-0.2	-0.5	-1.4	-0.1	-0.2	-0.3	-0.7	-0.0	-10.3	+0.0
Minimum price 40p + total off-t discount ban	-11	-0.0	-0.3	-0.4	-0.1	-14	-0.2	-0.3	-0.6	-1.7	-0.1	-0.2	-0.4	-0.8	-0.0	-11.7	+0.0
Minimum price 45p + total off-t discount ban	-14	-0.0	-0.4	-0.5	-0.1	-19	-0.2	-0.4	-0.8	-2.1	-0.2	-0.3	-0.5	-1.0	-0.0	-14.4	+0.0
Minimum price 50p + total off-t discount ban	-18	-0.0	-0.5	-0.6	-0.2	-24	-0.3	-0.5	-1.1	-2.8	-0.2	-0.4	-0.6	-1.3	-0.0	-18.3	+0.0
Minimum price 55p + total off-t discount ban	-24	-0.0	-0.6	-0.8	-0.2	-32	-0.4	-0.7	-1.5	-3.6	-0.3	-0.5	-0.8	-1.7	-0.0	-23.6	+0.0
Minimum price 60p + total off-t discount ban	-30	-0.0	-0.8	-1.0	-0.3	-40	-0.5	-0.8	-1.8	-4.6	-0.4	-0.7	-1.1	-2.2	-0.0	-30.0	+0.0
Minimum price 65p + total off-t discount ban	-38	-0.1	-1.0	-1.3	-0.3	-50	-0.6	-1.0	-2.3	-5.7	-0.5	-0.9	-1.4	-2.7	-0.0	-37.5	+0.0
Minimum price 70p + total off-t discount ban	-46	-0.1	-1.2	-1.5	-0.4	-60	-0.8	-1.3	-2.8	-6.8	-0.6	-1.1	-1.7	-3.4	-0.0	-45.8	+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.	
	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)
Minimum price 25p	-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	-0.2	+0.0
Minimum price 30p	-1	-0.0	-0.0	-0.0	-0.0	-5	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.4	+0.0	
Minimum price 35p	-2	-0.0	-0.0	-0.0	-0.0	-12	-0.1	-0.0	-0.2	-0.3	-0.0	-0.0	-0.1	-0.0	-0.9	+0.0	
Minimum price 40p	-5	-0.0	-0.1	-0.1	-0.0	-28	-0.2	-0.1	-0.4	-0.7	-0.0	-0.1	-0.1	-0.2	-2.0	+0.0	
Minimum price 45p	-9	-0.0	-0.1	-0.2	-0.0	-56	-0.4	-0.2	-0.9	-1.4	-0.1	-0.1	-0.2	-0.4	-3.8	+0.0	
Minimum price 50p	-15	-0.1	-0.2	-0.3	-0.1	-91	-0.6	-0.2	-1.4	-2.3	-0.1	-0.2	-0.3	-0.6	-6.1	+0.0	
Minimum price 55p	-22	-0.1	-0.3	-0.5	-0.1	-131	-0.9	-0.4	-2.1	-3.4	-0.1	-0.3	-0.5	-0.9	-8.9	+0.0	
Minimum price 60p	-30	-0.1	-0.4	-0.7	-0.1	-175	-1.2	-0.5	-2.8	-4.5	-0.2	-0.4	-0.6	-1.2	-12.0	+0.0	
Minimum price 65p	-38	-0.1	-0.5	-0.8	-0.2	-223	-1.5	-0.6	-3.5	-5.8	-0.2	-0.5	-0.8	-1.5	-15.3	+0.0	
Minimum price 70p	-46	-0.2	-0.6	-1.0	-0.2	-269	-1.9	-0.8	-4.3	-7.0	-0.3	-0.6	-1.0	-1.8	-18.8	+0.0	
Total off-trade discount ban	-8	-0.0	-0.1	-0.2	-0.0	-49	-0.3	-0.1	-0.8	-1.3	-0.1	-0.1	-0.2	-0.3	-3.5	+0.0	
Minimum price 25p + total off-t discount ban	-8	-0.0	-0.1	-0.2	-0.0	-51	-0.3	-0.1	-0.8	-1.3	-0.1	-0.1	-0.2	-0.3	-3.6	+0.0	
Minimum price 30p + total off-t discount ban	-9	-0.0	-0.1	-0.2	-0.0	-53	-0.4	-0.1	-0.8	-1.4	-0.1	-0.1	-0.2	-0.4	-3.8	+0.0	
Minimum price 35p + total off-t discount ban	-10	-0.0	-0.1	-0.2	-0.0	-58	-0.4	-0.2	-0.9	-1.5	-0.1	-0.1	-0.2	-0.4	-4.2	+0.0	
Minimum price 40p + total off-t discount ban	-12	-0.0	-0.2	-0.3	-0.1	-72	-0.5	-0.2	-1.1	-1.9	-0.1	-0.2	-0.3	-0.5	-5.2	+0.0	
Minimum price 45p + total off-t discount ban	-16	-0.1	-0.2	-0.4	-0.1	-94	-0.6	-0.3	-1.5	-2.4	-0.1	-0.2	-0.3	-0.6	-6.6	+0.0	
Minimum price 50p + total off-t discount ban	-21	-0.1	-0.3	-0.5	-0.1	-122	-0.8	-0.3	-1.9	-3.2	-0.1	-0.3	-0.4	-0.8	-8.5	+0.0	
Minimum price 55p + total off-t discount ban	-27	-0.1	-0.4	-0.6	-0.1	-157	-1.1	-0.4	-2.5	-4.1	-0.2	-0.3	-0.5	-1.0	-10.9	+0.0	
Minimum price 60p + total off-t discount ban	-33	-0.1	-0.5	-0.7	-0.2	-196	-1.4	-0.5	-3.1	-5.1	-0.2	-0.4	-0.7	-1.3	-13.6	+0.0	
Minimum price 65p + total off-t discount ban	-41	-0.1	-0.6	-0.9	-0.2	-239	-1.7	-0.7	-3.8	-6.2	-0.2	-0.5	-0.8	-1.6	-16.6	+0.0	
Minimum price 70p + total off-t discount ban	-49	-0.2	-0.7	-1.1	-0.2	-283	-2.0	-0.8	-4.5	-7.4	-0.3	-0.6	-1.0	-1.9	-19.9	+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)
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	-0.4	-0.0
Minimum price 30p	-1	-0.0	-0.0	-0.0	-0.0	-9	-0.1	-0.0	-0.2	-0.2	-0.0	-0.0	-0.1	-0.1	-0.0	-0.8	-0.1
Minimum price 35p	-3	-0.0	-0.0	-0.1	-0.0	-19	-0.2	-0.0	-0.4	-0.5	-0.0	-0.1	-0.1	-0.2	-0.0	-1.6	-0.2
Minimum price 40p	-5	-0.0	-0.1	-0.1	-0.0	-37	-0.4	-0.1	-0.8	-0.9	-0.1	-0.1	-0.2	-0.4	-0.0	-2.9	-0.3
Minimum price 45p	-9	-0.1	-0.1	-0.3	-0.0	-65	-0.6	-0.1	-1.4	-1.6	-0.1	-0.2	-0.4	-0.6	-0.0	-4.6	-0.5
Minimum price 50p	-14	-0.1	-0.2	-0.4	-0.1	-96	-0.9	-0.2	-2.1	-2.4	-0.1	-0.3	-0.5	-0.9	-0.0	-6.6	-0.7
Minimum price 55p	-19	-0.1	-0.2	-0.5	-0.1	-131	-1.3	-0.2	-2.8	-3.2	-0.2	-0.3	-0.7	-1.2	-0.0	-8.9	-0.9
Minimum price 60p	-25	-0.2	-0.3	-0.6	-0.1	-168	-1.6	-0.3	-3.6	-4.1	-0.2	-0.4	-0.9	-1.5	-0.0	-11.3	-1.2
Minimum price 65p	-30	-0.2	-0.3	-0.8	-0.2	-206	-1.9	-0.3	-4.3	-5.0	-0.2	-0.5	-1.1	-1.8	-0.0	-13.8	-1.4
Minimum price 70p	-36	-0.2	-0.4	-0.9	-0.2	-244	-2.3	-0.4	-5.1	-6.0	-0.3	-0.6	-1.3	-2.2	-0.0	-16.3	-1.6
Total off-trade discount ban	-5	-0.0	-0.1	-0.1	-0.0	-37	-0.4	-0.1	-0.8	-0.9	-0.0	-0.1	-0.2	-0.3	-0.0	-2.2	-0.2
Minimum price 25p + total off-t discount ban	-6	-0.0	-0.1	-0.2	-0.0	-41	-0.4	-0.1	-0.9	-1.0	-0.0	-0.1	-0.2	-0.3	-0.0	-2.6	-0.3
Minimum price 30p + total off-t discount ban	-7	-0.0	-0.1	-0.2	-0.0	-45	-0.4	-0.1	-1.0	-1.1	-0.0	-0.1	-0.2	-0.4	-0.0	-2.9	-0.3
Minimum price 35p + total off-t discount ban	-8	-0.0	-0.1	-0.2	-0.0	-52	-0.5	-0.1	-1.2	-1.3	-0.1	-0.1	-0.3	-0.5	-0.0	-3.5	-0.4
Minimum price 40p + total off-t discount ban	-10	-0.1	-0.1	-0.3	-0.1	-67	-0.7	-0.1	-1.5	-1.7	-0.1	-0.2	-0.4	-0.6	-0.0	-4.6	-0.5
Minimum price 45p + total off-t discount ban	-13	-0.1	-0.1	-0.3	-0.1	-89	-0.9	-0.1	-1.9	-2.2	-0.1	-0.2	-0.5	-0.8	-0.0	-6.0	-0.7
Minimum price 50p + total off-t discount ban	-17	-0.1	-0.2	-0.4	-0.1	-115	-1.1	-0.2	-2.5	-2.8	-0.1	-0.3	-0.6	-1.0	-0.0	-7.7	-0.8
Minimum price 55p + total off-t discount ban	-21	-0.1	-0.2	-0.6	-0.1	-145	-1.4	-0.2	-3.1	-3.6	-0.2	-0.4	-0.8	-1.3	-0.0	-9.7	-1.0
Minimum price 60p + total off-t discount ban	-26	-0.2	-0.3	-0.7	-0.1	-178	-1.7	-0.3	-3.8	-4.4	-0.2	-0.4	-0.9	-1.6	-0.0	-11.9	-1.2
Minimum price 65p + total off-t discount ban	-32	-0.2	-0.4	-0.8	-0.2	-214	-2.0	-0.4	-4.5	-5.2	-0.2	-0.5	-1.1	-1.9	-0.0	-14.3	-1.5
Minimum price 70p + total off-t discount ban	-37	-0.2	-0.4	-1.0	-0.2	-250	-2.3	-0.4	-5.2	-6.1	-0.3	-0.6	-1.3	-2.2	-0.0	-16.8	-1.7

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - TOTAL	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																
Minimum price 25p	+0.3	-0	-1	-1.3	-1.1	+7	-0	-4	+1	-	-1	-10	-10	+4	-	-6
Minimum price 30p	+0.1	-1	-1	-2.6	-2.8	+2	-1	-2.7	-1	-1	-1	-21	-25	-9	-1	-35
Minimum price 35p	-0.4	-3	-3	-4.9	-5.9	-1.2	-2	-7.4	-9	-2	-3	-41	-55	-42	-2	-99
Minimum price 40p	-1.5	-6	-7	-8.4	-11.2	-3.8	-5	-15.5	-25	-5	-6	-70	-106	-108	-4	-219
Minimum price 45p	-2.9	-1.2	-1.4	-12.9	-18.4	-7.6	-9	-26.9	-49	-10	-11	-107	-177	-207	-9	-393
Minimum price 50p	-4.8	-2.0	-2.2	-18.0	-27.0	-12.5	-1.5	-41.0	-78	-17	-18	-149	-263	-331	-14	-608
Minimum price 55p	-7.0	-3.0	-3.3	-23.4	-36.7	-18.3	-2.3	-57.4	-113	-25	-27	-195	-359	-476	-21	-857
Minimum price 60p	-9.5	-4.1	-4.4	-29.0	-47.0	-24.8	-3.1	-75.0	-150	-34	-37	-241	-462	-634	-29	-1,125
Minimum price 65p	-12.2	-5.2	-5.7	-34.6	-57.7	-31.9	-4.0	-93.6	-191	-43	-48	-288	-570	-803	-37	-1,409
Minimum price 70p	-15.0	-6.4	-7.1	-40.1	-68.6	-39.2	-4.9	-112.7	-232	-54	-59	-334	-678	-975	-46	-1,699
Total off-trade discount ban	-2.7	-1.2	-1.4	-6.0	-11.3	-7.1	-9	-19.3	-41	-10	-12	-50	-112	-171	-9	-292
Minimum price 25p + total off-t discount ban	-2.7	-1.2	-1.4	-7.1	-12.5	-7.3	-1.0	-20.8	-42	-10	-12	-59	-123	-178	-9	-311
Minimum price 30p + total off-t discount ban	-2.9	-1.3	-1.5	-8.1	-13.8	-7.6	-1.0	-22.4	-44	-11	-13	-67	-135	-188	-9	-332
Minimum price 35p + total off-t discount ban	-3.2	-1.4	-1.7	-9.9	-16.1	-8.4	-1.1	-25.6	-49	-12	-14	-82	-157	-209	-10	-376
Minimum price 40p + total off-t discount ban	-3.9	-1.7	-2.0	-12.7	-20.3	-10.3	-1.3	-31.9	-61	-14	-17	-106	-197	-260	-12	-469
Minimum price 45p + total off-t discount ban	-5.1	-2.2	-2.5	-16.3	-26.0	-13.4	-1.7	-41.1	-80	-18	-21	-136	-255	-340	-15	-610
Minimum price 50p + total off-t discount ban	-6.6	-2.8	-3.2	-20.5	-33.1	-17.4	-2.1	-52.6	-104	-23	-26	-171	-325	-441	-20	-785
Minimum price 55p + total off-t discount ban	-8.5	-3.6	-4.1	-25.3	-41.5	-22.3	-2.8	-66.6	-134	-30	-34	-210	-408	-565	-25	-998
Minimum price 60p + total off-t discount ban	-10.7	-4.5	-5.1	-30.4	-50.7	-28.1	-3.5	-82.3	-167	-38	-42	-253	-500	-704	-32	-1,237
Minimum price 65p + total off-t discount ban	-13.2	-5.6	-6.3	-35.7	-60.7	-34.5	-4.3	-99.6	-205	-47	-52	-297	-600	-860	-40	-1,500
Minimum price 70p + total off-t discount ban	-15.8	-6.8	-7.5	-40.9	-71.0	-41.5	-5.2	-117.7	-244	-56	-63	-340	-703	-1,023	-48	-1,775

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	+0.3	-0	-0	+0	+3	+1.0	-0	+1.3	+3	-	-	+	+3	+12	-	+15
Minimum price 30p	+0.3	-0	-0	+0	+3	+8	-0	+1.1	+3	-	-	+	+3	+9	-	+11
Minimum price 35p	+0.0	-0	-1	+0	-1	+1	-0	-0	+	-	-1	+	-1	-3	-	-4
Minimum price 40p	-0.4	-1	-3	+0	-8	-1.2	-1	-2.1	-5	-1	-2	+	-8	-24	-1	-34
Minimum price 45p	-1.0	-4	-6	+0	-2.0	-2.8	-3	-5.1	-12	-3	-5	+	-19	-55	-3	-77
Minimum price 50p	-1.9	-7	-1.0	+0	-3.6	-5.0	-6	-9.3	-21	-6	-8	+	-35	-94	-6	-135
Minimum price 55p	-2.9	-1.2	-1.6	+0	-5.7	-7.9	-1.0	-14.5	-33	-10	-13	+	-56	-143	-9	-208
Minimum price 60p	-4.1	-1.7	-2.3	+0	-8.1	-11.0	-1.4	-20.5	-46	-14	-19	+	-79	-198	-13	-290
Minimum price 65p	-5.4	-2.2	-3.0	+0	-10.6	-14.5	-1.9	-27.0	-60	-18	-25	+	-104	-258	-17	-379
Minimum price 70p	-6.7	-2.8	-3.8	+0	-13.4	-18.3	-2.3	-34.0	-75	-23	-32	+	-131	-321	-22	-473
Total off-trade discount ban	-1.3	-6	-9	+0	-2.8	-3.7	-5	-6.9	-15	-5	-7	+	-27	-62	-4	-93
Minimum price 25p + total off-t discount ban	-1.3	-6	-9	+0	-2.8	-3.6	-5	-6.9	-14	-5	-7	+	-26	-62	-5	-93
Minimum price 30p + total off-t discount ban	-1.3	-6	-9	+0	-2.8	-3.7	-5	-7.0	-14	-5	-7	+	-27	-63	-5	-95
Minimum price 35p + total off-t discount ban	-1.4	-6	-9	+0	-3.0	-3.9	-5	-7.4	-15	-5	-8	+	-28	-68	-5	-101
Minimum price 40p + total off-t discount ban	-1.7	-7	-1.1	+0	-3.5	-4.7	-6	-8.7	-19	-6	-9	+	-33	-83	-5	-121
Minimum price 45p + total off-t discount ban	-2.2	-9	-1.3	+0	-4.4	-6.0	-7	-11.1	-24	-7	-11	+	-42	-107	-7	-156
Minimum price 50p + total off-t discount ban	-2.9	-1.1	-1.7	+0	-5.7	-7.8	-9	-14.4	-32	-9	-14	+	-55	-139	-9	-203
Minimum price 55p + total off-t discount ban	-3.7	-1.5	-2.2	+0	-7.4	-10.2	-1.2	-18.8	-42	-12	-18	+	-72	-181	-11	-264
Minimum price 60p + total off-t discount ban	-4.8	-1.9	-2.7	+0	-9.4	-12.9	-1.6	-23.9	-53	-16	-23	+	-92	-228	-15	-335
Minimum price 65p + total off-t discount ban	-5.9	-2.4	-3.4	+0	-11.8	-16.1	-2.0	-29.9	-66	-20	-28	+	-115	-283	-19	-417
Minimum price 70p + total off-t discount ban	-7.2	-3.0	-4.2	+0	-14.4	-19.6	-2.5	-36.4	-81	-25	-35	+	-140	-342	-23	-505

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HAZARDOUS	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	-0.0	-0.0	-0.0	+0.0	-1.1	-1.1	-0.0	-2.2	-1	-	-	+	-1	-2	-	-3
Minimum price 30p	-0.1	-0.0	-0.0	+0.0	-2.2	-2.2	-0.0	-4.4	-1	-	-	+	-2	-6	-	-8
Minimum price 35p	-0.2	-1.1	-1.1	+0.0	-4.4	-5.5	-1.1	-9.9	-3	-1	-1	+	-5	-15	-1	-21
Minimum price 40p	-0.5	-2.2	-2.2	+0.0	-8.8	-11.2	-1.1	-21.1	-8	-2	-2	+	-11	-37	-1	-49
Minimum price 45p	-0.9	-3.3	-3.3	+0.0	-16.6	-23.3	-3.3	-44.1	-16	-3	-3	+	-22	-72	-2	-96
Minimum price 50p	-1.5	-5.5	-6.6	+0.0	-26.6	-38.8	-4.4	-67.7	-27	-4	-5	+	-36	-117	-4	-157
Minimum price 55p	-2.2	-7.7	-8.8	+0.0	-37.7	-55.5	-6.6	-99.8	-39	-6	-7	+	-52	-170	-5	-227
Minimum price 60p	-2.9	-10.0	-11.1	+0.0	-50.0	-74.4	-8.8	-133.1	-53	-8	-9	+	-70	-227	-7	-304
Minimum price 65p	-3.7	-13.3	-14.4	+0.0	-64.4	-94.4	-10.0	-168.8	-67	-10	-12	+	-89	-290	-9	-388
Minimum price 70p	-4.6	-16.6	-17.7	+0.0	-78.8	-115.5	-12.2	-205.5	-82	-13	-14	+	-109	-351	-11	-471
Total off-trade discount ban	-0.8	-3.3	-3.3	+0.0	-14.4	-20.0	-2.2	-37.7	-14	-2	-3	+	-19	-63	-2	-84
Minimum price 25p + total off-t discount ban	-0.8	-3.3	-3.3	+0.0	-15.5	-21.1	-2.2	-38.8	-15	-3	-3	+	-20	-65	-2	-87
Minimum price 30p + total off-t discount ban	-0.9	-3.3	-4.4	+0.0	-15.5	-22.2	-3.3	-40.0	-15	-3	-3	+	-21	-68	-2	-91
Minimum price 35p + total off-t discount ban	-0.9	-4.4	-4.4	+0.0	-17.7	-24.4	-3.3	-44.4	-17	-3	-3	+	-23	-75	-3	-101
Minimum price 40p + total off-t discount ban	-1.2	-4.4	-5.5	+0.0	-21.1	-30.0	-3.3	-54.4	-21	-4	-4	+	-29	-93	-3	-124
Minimum price 45p + total off-t discount ban	-1.5	-5.5	-6.6	+0.0	-27.7	-39.9	-4.4	-71.1	-28	-4	-5	+	-37	-122	-4	-163
Minimum price 50p + total off-t discount ban	-2.0	-7.7	-8.8	+0.0	-35.5	-51.1	-5.5	-92.2	-36	-6	-6	+	-49	-158	-5	-212
Minimum price 55p + total off-t discount ban	-2.6	-9.9	-11.0	+0.0	-45.5	-66.6	-7.7	-118.8	-47	-7	-8	+	-62	-204	-6	-272
Minimum price 60p + total off-t discount ban	-3.3	-11.1	-12.2	+0.0	-56.6	-83.3	-9.9	-147.7	-59	-9	-10	+	-78	-255	-8	-341
Minimum price 65p + total off-t discount ban	-4.0	-13.3	-14.4	+0.0	-69.9	-101.1	-11.1	-181.1	-72	-11	-13	+	-96	-311	-10	-417
Minimum price 70p + total off-t discount ban	-4.8	-16.6	-17.7	+0.0	-82.2	-121.1	-13.3	-217.7	-86	-13	-15	+	-115	-370	-12	-497

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	-0.1	-0	-0	-1.3	-1.4	-2	-0	-1.6	-1	-	-	-10	-12	-5	-	-18
Minimum price 30p	-0.1	-1	-1	-2.6	-2.9	-4	-1	-3.3	-3	-1	-1	-21	-26	-12	-1	-38
Minimum price 35p	-0.3	-2	-2	-4.9	-5.5	-8	-1	-6.4	-6	-1	-1	-41	-49	-24	-1	-75
Minimum price 40p	-0.6	-3	-3	-8.4	-9.5	-1.5	-2	-11.2	-12	-3	-2	-70	-87	-47	-2	-136
Minimum price 45p	-0.9	-5	-4	-12.9	-14.8	-2.4	-3	-17.6	-20	-4	-4	-107	-135	-80	-3	-219
Minimum price 50p	-1.4	-7	-6	-18.0	-20.7	-3.6	-5	-24.8	-30	-6	-5	-149	-191	-119	-4	-314
Minimum price 55p	-1.9	-9	-8	-23.4	-27.1	-4.9	-6	-32.6	-41	-8	-7	-195	-250	-162	-6	-418
Minimum price 60p	-2.4	-1.2	-1.1	-29.0	-33.7	-6.2	-8	-40.7	-52	-10	-9	-241	-311	-206	-7	-525
Minimum price 65p	-3.0	-1.4	-1.3	-34.6	-40.3	-7.6	-1.0	-48.9	-63	-12	-11	-288	-374	-252	-9	-635
Minimum price 70p	-3.5	-1.7	-1.5	-40.1	-46.9	-9.0	-1.2	-57.0	-74	-14	-13	-334	-435	-298	-11	-744
Total off-trade discount ban	-0.5	-2	-2	-6.0	-7.0	-1.3	-1	-8.4	-12	-2	-2	-50	-65	-46	-1	-112
Minimum price 25p + total off-t discount ban	-0.6	-2	-2	-7.1	-8.1	-1.5	-2	-9.8	-13	-2	-2	-59	-76	-51	-2	-128
Minimum price 30p + total off-t discount ban	-0.6	-3	-3	-8.1	-9.3	-1.6	-2	-11.1	-14	-2	-2	-67	-86	-55	-2	-143
Minimum price 35p + total off-t discount ban	-0.8	-4	-3	-9.9	-11.3	-1.9	-2	-13.5	-16	-3	-3	-82	-104	-65	-2	-172
Minimum price 40p + total off-t discount ban	-1.0	-5	-4	-12.7	-14.6	-2.5	-3	-17.4	-21	-4	-4	-106	-134	-83	-3	-221
Minimum price 45p + total off-t discount ban	-1.3	-6	-6	-16.3	-18.8	-3.3	-4	-22.5	-28	-5	-5	-136	-173	-110	-4	-287
Minimum price 50p + total off-t discount ban	-1.7	-8	-7	-20.5	-23.7	-4.3	-5	-28.5	-36	-7	-6	-171	-219	-142	-5	-366
Minimum price 55p + total off-t discount ban	-2.1	-1.0	-9	-25.3	-29.3	-5.4	-7	-35.4	-45	-8	-8	-210	-271	-179	-6	-456
Minimum price 60p + total off-t discount ban	-2.6	-1.2	-1.1	-30.4	-35.3	-6.6	-8	-42.8	-55	-10	-9	-253	-327	-219	-8	-554
Minimum price 65p + total off-t discount ban	-3.1	-1.5	-1.3	-35.7	-41.6	-7.9	-1.0	-50.5	-65	-12	-11	-297	-386	-262	-9	-657
Minimum price 70p + total off-t discount ban	-3.6	-1.7	-1.6	-40.9	-47.8	-9.3	-1.2	-58.3	-76	-15	-13	-340	-444	-307	-11	-761

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 spend p.a. if no change in consump.
Policy Scenario														
Minimum price 25p	-0.1%	-1.9	+0.7	+0.1	+0.0	-1.1	+3.8	+1.9	-0.1	+0.7	+6.3	+0.3%	+1.70	+1.17
Minimum price 30p	-0.4%	-3.9	+1.2	+0.2	+0.0	-2.5	+7.9	+4.2	-0.6	+1.4	+13.0	+0.6%	+3.53	+2.69
Minimum price 35p	-0.8%	-6.9	+1.5	-0.7	+0.0	-6.0	+15.4	+8.0	-2.0	+2.7	+24.0	+1.2%	+6.52	+5.98
Minimum price 40p	-1.9%	-10.2	+0.8	-4.0	+0.0	-13.4	+29.2	+13.7	-5.7	+4.7	+41.8	+2.0%	+11.36	+12.89
Minimum price 45p	-3.5%	-14.1	-2.5	-8.9	+0.1	-25.3	+48.0	+21.1	-12.1	+7.3	+64.3	+3.1%	+17.46	+23.95
Minimum price 50p	-5.7%	-18.6	-7.7	-14.7	+0.1	-40.8	+68.3	+29.3	-20.6	+10.1	+87.2	+4.2%	+23.67	+38.21
Minimum price 55p	-8.3%	-23.6	-15.0	-21.2	+0.1	-59.7	+88.2	+38.3	-31.6	+13.2	+108.1	+5.2%	+29.36	+55.37
Minimum price 60p	-11.1%	-28.7	-23.5	-28.2	+0.1	-80.2	+104.6	+47.7	-44.5	+16.5	+124.3	+6.0%	+33.74	+74.20
Minimum price 65p	-14.0%	-32.2	-32.9	-35.6	+0.2	-100.5	+118.3	+57.6	-58.0	+19.8	+137.7	+6.6%	+37.40	+94.41
Minimum price 70p	-16.9%	-35.5	-43.0	-43.2	+0.1	-121.6	+126.5	+68.5	-72.9	+23.3	+145.4	+7.0%	+39.49	+115.74
Total off-trade discount ban	-3.0%	-5.5	-12.9	-3.3	-0.1	-21.9	+41.9	+8.1	-8.3	+2.8	+44.5	+2.1%	+12.08	+22.01
Minimum price 25p + total off-t discount ban	-3.2%	-7.1	-12.4	-3.2	-0.1	-22.9	+44.9	+9.8	-8.6	+3.4	+49.5	+2.4%	+13.45	+23.03
Minimum price 30p + total off-t discount ban	-3.4%	-8.7	-12.1	-3.2	-0.1	-24.2	+47.9	+11.6	-9.0	+4.0	+54.5	+2.6%	+14.79	+24.25
Minimum price 35p + total off-t discount ban	-3.7%	-11.0	-12.0	-4.0	-0.1	-27.0	+53.4	+14.6	-10.3	+5.0	+62.7	+3.0%	+17.02	+26.83
Minimum price 40p + total off-t discount ban	-4.6%	-13.4	-12.7	-7.0	-0.1	-33.2	+63.8	+19.5	-13.7	+6.8	+76.4	+3.7%	+20.75	+32.43
Minimum price 45p + total off-t discount ban	-6.0%	-16.2	-15.3	-11.4	-0.1	-43.0	+77.3	+26.0	-19.4	+9.0	+92.8	+4.4%	+25.20	+41.28
Minimum price 50p + total off-t discount ban	-7.8%	-19.9	-19.3	-16.6	-0.1	-55.8	+91.3	+33.2	-27.2	+11.5	+108.9	+5.2%	+29.56	+52.83
Minimum price 55p + total off-t discount ban	-10.0%	-24.3	-25.1	-22.4	-0.0	-71.9	+104.9	+41.4	-37.3	+14.3	+123.3	+5.9%	+33.48	+67.28
Minimum price 60p + total off-t discount ban	-12.5%	-29.0	-32.1	-29.0	-0.0	-90.0	+116.1	+50.2	-49.4	+17.4	+134.2	+6.4%	+36.44	+83.81
Minimum price 65p + total off-t discount ban	-15.1%	-32.2	-40.5	-36.2	-0.0	-108.9	+126.0	+59.7	-62.5	+20.6	+143.8	+6.9%	+39.03	+102.47
Minimum price 70p + total off-t discount ban	-17.9%	-35.4	-49.8	-43.7	-0.0	-128.9	+131.2	+70.3	-77.1	+23.9	+148.4	+7.1%	+40.28	+122.70

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.
Minimum price 25p	+0.0%	-0.2	+0.1	+0.1	+0.0	+0.0	+0.5	+0.5	+0.0	+0.2	+1.3	+0.2%	+0.50	+0.21
Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.0	+1.1	+1.0	+0.0	+0.3	+2.5	+0.3%	+0.96	+0.49
Minimum price 35p	-0.2%	-0.4	-0.1	+0.0	+0.0	-0.5	+2.4	+1.8	-0.1	+0.6	+4.7	+0.6%	+1.80	+1.21
Minimum price 40p	-0.7%	-0.6	-0.6	-0.8	+0.0	-2.0	+5.3	+2.8	-0.5	+0.9	+8.6	+1.1%	+3.31	+3.03
Minimum price 45p	-1.5%	-0.8	-1.9	-2.1	+0.0	-4.8	+9.9	+4.2	-1.3	+1.4	+14.2	+1.9%	+5.51	+6.27
Minimum price 50p	-2.8%	-1.3	-3.8	-3.5	+0.0	-8.6	+15.8	+5.8	-2.5	+2.0	+21.1	+2.8%	+8.19	+10.78
Minimum price 55p	-4.3%	-1.8	-6.4	-5.3	+0.0	-13.4	+22.5	+7.7	-3.9	+2.6	+28.8	+3.8%	+11.17	+16.56
Minimum price 60p	-6.1%	-2.4	-9.3	-7.2	+0.0	-18.9	+29.2	+9.6	-5.8	+3.2	+36.3	+4.7%	+14.06	+23.11
Minimum price 65p	-8.0%	-3.1	-12.5	-9.4	+0.0	-24.9	+35.4	+11.7	-8.0	+3.9	+43.0	+5.6%	+16.65	+30.28
Minimum price 70p	-10.0%	-3.8	-15.9	-11.6	+0.1	-31.3	+40.5	+14.0	-10.5	+4.6	+48.6	+6.3%	+18.82	+37.94
Total off-trade discount ban	-2.0%	-0.7	-4.6	-1.0	-0.0	-6.4	+12.0	+1.8	-1.1	+0.6	+13.2	+1.7%	+5.13	+8.31
Minimum price 25p + total off-t discount ban	-2.0%	-0.9	-4.5	-1.0	-0.0	-6.3	+12.5	+2.2	-1.1	+0.7	+14.3	+1.9%	+5.55	+8.49
Minimum price 30p + total off-t discount ban	-2.1%	-1.0	-4.5	-0.9	-0.0	-6.4	+12.9	+2.6	-1.1	+0.9	+15.3	+2.0%	+5.93	+8.73
Minimum price 35p + total off-t discount ban	-2.2%	-1.1	-4.7	-1.0	-0.0	-6.8	+13.9	+3.2	-1.2	+1.1	+17.0	+2.2%	+6.58	+9.30
Minimum price 40p + total off-t discount ban	-2.6%	-1.1	-5.2	-1.8	-0.0	-8.1	+16.2	+4.2	-1.7	+1.4	+20.1	+2.6%	+7.79	+10.81
Minimum price 45p + total off-t discount ban	-3.3%	-1.3	-6.2	-2.9	-0.0	-10.4	+19.6	+5.4	-2.4	+1.8	+24.4	+3.2%	+9.45	+13.39
Minimum price 50p + total off-t discount ban	-4.3%	-1.6	-7.6	-4.2	-0.0	-13.4	+23.8	+6.8	-3.4	+2.3	+29.5	+3.8%	+11.41	+16.96
Minimum price 55p + total off-t discount ban	-5.6%	-2.0	-9.7	-5.7	-0.0	-17.4	+28.8	+8.4	-4.8	+2.8	+35.2	+4.6%	+13.63	+21.69
Minimum price 60p + total off-t discount ban	-7.1%	-2.5	-12.1	-7.5	+0.0	-22.1	+33.9	+10.2	-6.5	+3.4	+41.0	+5.3%	+15.87	+27.30
Minimum price 65p + total off-t discount ban	-8.9%	-3.1	-14.9	-9.6	+0.0	-27.6	+38.8	+12.2	-8.7	+4.0	+46.4	+6.0%	+17.97	+33.82
Minimum price 70p + total off-t discount ban	-10.8%	-3.8	-18.0	-11.8	+0.0	-33.6	+43.0	+14.5	-11.2	+4.7	+51.0	+6.6%	+19.77	+41.00

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)	
	% 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.
Policy Scenario														
Minimum price 25p	-0.0%	-2.3	+1.8	+0.2	+0.0	-0.2	+1.6	+1.0	+0.2	+0.3	+3.1	+0.4%	+3.89	+2.03
Minimum price 30p	-0.1%	-4.8	+3.4	+0.3	+0.0	-1.0	+3.5	+2.2	+0.2	+0.7	+6.6	+0.8%	+8.35	+4.76
Minimum price 35p	-0.3%	-8.3	+4.9	-1.4	+0.0	-4.8	+6.8	+4.1	-0.0	+1.4	+12.3	+1.5%	+15.44	+10.68
Minimum price 40p	-1.2%	-12.0	+3.7	-8.1	+0.1	-16.3	+12.9	+7.1	-1.3	+2.4	+21.1	+2.6%	+26.54	+23.74
Minimum price 45p	-2.7%	-16.2	-3.9	-18.1	+0.1	-38.1	+21.3	+10.8	-3.8	+3.7	+32.0	+3.9%	+40.33	+45.77
Minimum price 50p	-4.8%	-21.2	-16.4	-30.5	+0.1	-67.9	+30.6	+14.9	-7.5	+5.1	+43.1	+5.3%	+54.31	+74.48
Minimum price 55p	-7.5%	-26.9	-34.6	-44.2	+0.1	-105.6	+39.6	+19.4	-12.4	+6.7	+53.3	+6.5%	+67.14	+109.43
Minimum price 60p	-10.5%	-33.1	-55.4	-59.0	+0.1	-147.4	+46.8	+24.1	-18.3	+8.3	+61.0	+7.5%	+76.78	+147.68
Minimum price 65p	-13.6%	-37.3	-79.0	-74.8	+0.1	-191.0	+52.3	+29.1	-24.8	+10.0	+66.6	+8.2%	+83.87	+189.00
Minimum price 70p	-16.7%	-40.0	-104.1	-91.1	+0.1	-235.1	+55.5	+34.4	-31.7	+11.7	+69.8	+8.6%	+87.94	+232.42
Total off-trade discount ban	-3.3%	-7.3	-31.5	-7.5	-0.1	-46.5	+17.8	+4.0	-4.2	+1.4	+18.9	+2.3%	+23.82	+45.20
Minimum price 25p + total off-t discount ban	-3.3%	-9.4	-30.1	-7.3	-0.1	-46.9	+19.1	+4.8	-4.1	+1.7	+21.5	+2.6%	+27.05	+47.02
Minimum price 30p + total off-t discount ban	-3.4%	-11.3	-29.1	-7.3	-0.1	-47.9	+20.5	+5.8	-4.1	+2.0	+24.1	+3.0%	+30.40	+49.24
Minimum price 35p + total off-t discount ban	-3.6%	-13.8	-28.3	-8.9	-0.1	-51.2	+23.1	+7.3	-4.4	+2.5	+28.5	+3.5%	+35.90	+53.97
Minimum price 40p + total off-t discount ban	-4.3%	-16.2	-29.7	-15.0	-0.1	-61.0	+27.8	+9.9	-5.6	+3.4	+35.5	+4.4%	+44.73	+64.67
Minimum price 45p + total off-t discount ban	-5.6%	-19.0	-35.7	-24.0	-0.1	-78.7	+33.9	+13.1	-7.9	+4.5	+43.7	+5.4%	+55.09	+82.30
Minimum price 50p + total off-t discount ban	-7.3%	-22.8	-45.2	-34.9	-0.0	-103.0	+40.3	+16.8	-11.2	+5.8	+51.8	+6.3%	+65.17	+105.46
Minimum price 55p + total off-t discount ban	-9.6%	-27.8	-59.6	-47.2	-0.0	-134.6	+46.4	+20.9	-15.6	+7.2	+58.9	+7.2%	+74.21	+134.69
Minimum price 60p + total off-t discount ban	-12.2%	-33.4	-76.8	-61.1	-0.0	-171.3	+51.2	+25.3	-21.1	+8.8	+64.2	+7.9%	+80.82	+168.10
Minimum price 65p + total off-t discount ban	-15.0%	-37.2	-97.7	-76.4	-0.0	-211.3	+54.9	+30.0	-27.4	+10.4	+68.0	+8.3%	+85.58	+206.11
Minimum price 70p + total off-t discount ban	-18.0%	-39.7	-120.8	-92.4	-0.0	-253.0	+56.7	+35.2	-34.2	+12.0	+69.7	+8.6%	+87.80	+247.20

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)	
	% 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.
Minimum price 25p	-0.6%	-25.3	+4.0	+0.1	+0.0	-21.1	+1.6	+0.4	-0.4	+0.2	+1.9	+0.4%	+10.35	+11.83
Minimum price 30p	-1.2%	-54.5	+7.9	+0.1	+0.1	-46.5	+3.3	+1.0	-0.9	+0.4	+3.8	+0.8%	+21.18	+26.68
Minimum price 35p	-2.5%	-97.4	+11.2	-7.2	+0.2	-93.2	+6.1	+2.1	-1.9	+0.7	+7.0	+1.5%	+38.69	+57.30
Minimum price 40p	-4.5%	-146.5	+8.6	-33.7	+0.4	-171.2	+10.9	+3.8	-3.9	+1.3	+12.1	+2.7%	+66.43	+114.02
Minimum price 45p	-7.3%	-202.3	-5.8	-70.8	+0.6	-278.3	+16.5	+6.0	-6.9	+2.1	+17.7	+3.9%	+97.76	+195.11
Minimum price 50p	-10.7%	-265.6	-28.8	-113.6	+0.8	-407.3	+21.7	+8.4	-10.6	+3.0	+22.4	+4.9%	+123.42	+292.89
Minimum price 55p	-14.6%	-335.0	-60.8	-159.8	+1.0	-554.6	+25.5	+10.9	-15.2	+3.9	+25.2	+5.5%	+138.71	+403.93
Minimum price 60p	-18.6%	-401.7	-98.4	-208.6	+1.3	-707.4	+27.8	+13.6	-20.3	+4.8	+25.9	+5.7%	+142.74	+522.69
Minimum price 65p	-22.2%	-444.7	-140.9	-258.6	+1.6	-842.6	+29.6	+16.5	-25.1	+5.8	+26.8	+5.9%	+147.74	+647.32
Minimum price 70p	-25.9%	-488.6	-186.7	-309.5	+1.1	-983.7	+29.4	+19.6	-30.4	+6.8	+25.4	+5.6%	+140.04	+778.01
Total off-trade discount ban	-3.9%	-68.9	-57.5	-19.4	-1.5	-147.3	+11.7	+2.2	-2.9	+0.8	+11.8	+2.6%	+65.06	+126.30
Minimum price 25p + total off-t discount ban	-4.4%	-90.8	-54.3	-19.4	-1.5	-166.1	+12.9	+2.6	-3.3	+0.9	+13.2	+2.9%	+72.59	+136.52
Minimum price 30p + total off-t discount ban	-4.9%	-113.8	-51.8	-19.6	-1.4	-186.6	+14.0	+3.1	-3.7	+1.1	+14.5	+3.2%	+79.74	+148.18
Minimum price 35p + total off-t discount ban	-5.9%	-146.3	-49.8	-26.3	-1.3	-223.8	+16.0	+3.9	-4.7	+1.4	+16.6	+3.7%	+91.62	+171.53
Minimum price 40p + total off-t discount ban	-7.6%	-183.7	-52.6	-50.6	-1.2	-288.2	+19.3	+5.4	-6.4	+1.9	+20.1	+4.4%	+111.02	+216.69
Minimum price 45p + total off-t discount ban	-9.9%	-227.4	-64.2	-84.0	-1.0	-376.7	+23.1	+7.3	-9.1	+2.6	+23.9	+5.3%	+131.77	+281.69
Minimum price 50p + total off-t discount ban	-12.8%	-280.5	-82.0	-123.0	-0.8	-486.3	+26.5	+9.4	-12.5	+3.4	+26.8	+5.9%	+147.54	+362.74
Minimum price 55p + total off-t discount ban	-16.2%	-342.9	-107.6	-165.5	-0.6	-616.7	+28.9	+11.8	-16.8	+4.2	+28.1	+6.2%	+154.71	+459.13
Minimum price 60p + total off-t discount ban	-19.9%	-405.0	-138.8	-211.8	-0.4	-756.0	+30.0	+14.3	-21.6	+5.1	+27.7	+6.1%	+152.86	+566.26
Minimum price 65p + total off-t discount ban	-23.2%	-445.5	-176.6	-260.9	-0.1	-883.0	+31.1	+17.0	-26.2	+6.0	+27.9	+6.1%	+153.56	+683.48
Minimum price 70p + total off-t discount ban	-26.8%	-488.0	-218.8	-311.4	-0.5	-1018.6	+30.2	+20.1	-31.4	+7.0	+25.8	+5.7%	+142.36	+809.01

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.	
	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																	
Minimum price 25p	+2	-0.0	+0.1	+0.1	+0.0	-3	-0.1	+0.1	-0.0	+0.2	-0.0	-0.0	-0.1	-0.1	-0.0	-0.7	-0.1
Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-11	-0.1	+0.1	-0.2	-0.1	-0.0	-0.1	-0.1	-0.2	-0.0	-1.9	-0.2
Minimum price 35p	-5	-0.0	-0.1	-0.1	-0.0	-32	-0.3	-0.0	-0.7	-0.9	-0.1	-0.2	-0.3	-0.6	-0.0	-4.5	-0.3
Minimum price 40p	-16	-0.1	-0.3	-0.5	-0.1	-84	-0.8	-0.3	-1.9	-2.8	-0.2	-0.3	-0.7	-1.2	-0.0	-10.2	-0.6
Minimum price 45p	-33	-0.1	-0.6	-0.9	-0.2	-166	-1.5	-0.6	-3.6	-5.5	-0.3	-0.7	-1.2	-2.2	-0.0	-19.6	-0.9
Minimum price 50p	-56	-0.2	-0.9	-1.5	-0.3	-269	-2.4	-1.0	-5.9	-9.0	-0.5	-1.1	-1.9	-3.5	-0.0	-32.3	-1.3
Minimum price 55p	-83	-0.3	-1.4	-2.2	-0.5	-394	-3.5	-1.5	-8.4	-13.3	-0.8	-1.6	-2.8	-5.1	-0.0	-48.2	-1.7
Minimum price 60p	-112	-0.4	-1.9	-3.0	-0.7	-524	-4.6	-2.1	-11.2	-17.8	-1.0	-2.1	-3.7	-6.8	-0.1	-65.9	-2.0
Minimum price 65p	-141	-0.5	-2.4	-3.8	-0.9	-648	-5.6	-2.6	-13.8	-22.2	-1.3	-2.7	-4.7	-8.6	-0.1	-84.0	-2.3
Minimum price 70p	-170	-0.6	-3.0	-4.6	-1.1	-772	-6.7	-3.3	-16.5	-26.8	-1.6	-3.3	-5.7	-10.5	-0.1	-102.8	-2.6
Total off-trade discount ban	-31	-0.1	-0.5	-0.9	-0.2	-144	-1.3	-0.6	-3.1	-5.0	-0.3	-0.6	-1.0	-1.9	-0.0	-20.2	-0.5
Minimum price 25p + total off-t discount ban	-32	-0.1	-0.6	-0.9	-0.2	-149	-1.3	-0.6	-3.2	-5.1	-0.3	-0.6	-1.1	-2.0	-0.0	-20.9	-0.5
Minimum price 30p + total off-t discount ban	-33	-0.1	-0.6	-0.9	-0.2	-156	-1.4	-0.6	-3.4	-5.4	-0.3	-0.7	-1.1	-2.1	-0.0	-21.9	-0.6
Minimum price 35p + total off-t discount ban	-36	-0.1	-0.6	-1.0	-0.2	-172	-1.5	-0.7	-3.7	-5.9	-0.4	-0.7	-1.3	-2.4	-0.0	-24.1	-0.7
Minimum price 40p + total off-t discount ban	-44	-0.2	-0.8	-1.2	-0.3	-212	-1.9	-0.8	-4.6	-7.3	-0.4	-0.9	-1.6	-2.9	-0.0	-28.8	-0.9
Minimum price 45p + total off-t discount ban	-59	-0.2	-1.0	-1.6	-0.4	-278	-2.5	-1.1	-6.0	-9.5	-0.5	-1.1	-2.0	-3.6	-0.0	-36.5	-1.2
Minimum price 50p + total off-t discount ban	-77	-0.3	-1.3	-2.1	-0.5	-364	-3.2	-1.4	-7.8	-12.4	-0.7	-1.4	-2.6	-4.7	-0.0	-46.8	-1.5
Minimum price 55p + total off-t discount ban	-100	-0.4	-1.7	-2.7	-0.6	-468	-4.1	-1.8	-10.0	-15.9	-0.9	-1.9	-3.3	-6.1	-0.0	-60.2	-1.8
Minimum price 60p + total off-t discount ban	-125	-0.5	-2.2	-3.4	-0.8	-582	-5.1	-2.3	-12.4	-19.9	-1.1	-2.3	-4.1	-7.6	-0.1	-75.6	-2.1
Minimum price 65p + total off-t discount ban	-152	-0.6	-2.6	-4.1	-0.9	-694	-6.0	-2.9	-14.8	-24.0	-1.4	-2.9	-5.0	-9.3	-0.1	-92.2	-2.4
Minimum price 70p + total off-t discount ban	-180	-0.7	-3.2	-4.9	-1.1	-810	-7.0	-3.5	-17.3	-28.3	-1.7	-3.4	-6.0	-11.1	-0.1	-109.9	-2.6

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																	
Minimum price 25p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	+0.0
Minimum price 30p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.3	+0.0
Minimum price 35p	+0	-0.0	+0.0	+0.0	+0.0	+0	-0.0	+0.0	+0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.9	+0.0
Minimum price 40p	-3	-0.0	-0.1	-0.1	-0.0	-3	-0.0	-0.1	-0.2	-0.5	-0.0	-0.0	-0.1	-0.1	-0.0	-2.7	+0.0
Minimum price 45p	-7	-0.0	-0.2	-0.2	-0.1	-6	-0.1	-0.2	-0.4	-1.2	-0.1	-0.1	-0.2	-0.4	-0.0	-6.0	+0.0
Minimum price 50p	-12	-0.0	-0.3	-0.4	-0.1	-11	-0.2	-0.3	-0.7	-2.0	-0.1	-0.3	-0.4	-0.8	-0.0	-11.0	+0.0
Minimum price 55p	-18	-0.0	-0.5	-0.6	-0.2	-17	-0.3	-0.5	-1.0	-3.1	-0.2	-0.4	-0.6	-1.3	-0.0	-17.5	+0.0
Minimum price 60p	-25	-0.0	-0.7	-0.9	-0.2	-24	-0.4	-0.7	-1.5	-4.2	-0.3	-0.6	-0.9	-1.9	-0.0	-25.1	+0.0
Minimum price 65p	-33	-0.0	-0.9	-1.1	-0.3	-31	-0.5	-0.9	-1.9	-5.5	-0.4	-0.8	-1.3	-2.5	-0.0	-33.4	+0.0
Minimum price 70p	-42	-0.1	-1.1	-1.4	-0.4	-39	-0.6	-1.2	-2.4	-6.8	-0.6	-1.0	-1.6	-3.2	-0.0	-42.2	+0.0
Total off-trade discount ban	-8	-0.0	-0.2	-0.3	-0.1	-8	-0.1	-0.2	-0.5	-1.3	-0.1	-0.2	-0.3	-0.7	-0.0	-9.5	+0.0
Minimum price 25p + total off-t discount ban	-8	-0.0	-0.2	-0.3	-0.1	-8	-0.1	-0.2	-0.5	-1.3	-0.1	-0.2	-0.3	-0.7	-0.0	-9.5	+0.0
Minimum price 30p + total off-t discount ban	-8	-0.0	-0.2	-0.3	-0.1	-8	-0.1	-0.2	-0.5	-1.4	-0.1	-0.2	-0.3	-0.7	-0.0	-9.7	+0.0
Minimum price 35p + total off-t discount ban	-9	-0.0	-0.2	-0.3	-0.1	-8	-0.1	-0.2	-0.5	-1.5	-0.1	-0.2	-0.3	-0.7	-0.0	-10.3	+0.0
Minimum price 40p + total off-t discount ban	-10	-0.0	-0.3	-0.4	-0.1	-10	-0.1	-0.3	-0.6	-1.8	-0.1	-0.2	-0.4	-0.8	-0.0	-11.7	+0.0
Minimum price 45p + total off-t discount ban	-14	-0.0	-0.4	-0.5	-0.1	-13	-0.2	-0.4	-0.8	-2.3	-0.2	-0.3	-0.5	-1.0	-0.0	-14.4	+0.0
Minimum price 50p + total off-t discount ban	-18	-0.0	-0.5	-0.6	-0.2	-17	-0.3	-0.5	-1.0	-3.0	-0.2	-0.4	-0.6	-1.3	-0.0	-18.3	+0.0
Minimum price 55p + total off-t discount ban	-23	-0.0	-0.6	-0.8	-0.2	-22	-0.3	-0.7	-1.3	-3.8	-0.3	-0.5	-0.8	-1.7	-0.0	-23.6	+0.0
Minimum price 60p + total off-t discount ban	-30	-0.0	-0.8	-1.0	-0.3	-28	-0.4	-0.8	-1.7	-4.9	-0.4	-0.7	-1.1	-2.2	-0.0	-30.0	+0.0
Minimum price 65p + total off-t discount ban	-37	-0.1	-1.0	-1.2	-0.3	-34	-0.5	-1.0	-2.1	-6.0	-0.5	-0.9	-1.4	-2.7	-0.0	-37.5	+0.0
Minimum price 70p + total off-t discount ban	-45	-0.1	-1.2	-1.5	-0.4	-41	-0.7	-1.3	-2.6	-7.2	-0.6	-1.1	-1.7	-3.4	-0.0	-45.8	+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																	
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	-0.0	+0.0
Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-1	-0.0	+0.0	+0.0	+0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	+0.0
Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-7	-0.0	-0.0	-0.1	-0.2	-0.0	-0.0	-0.1	-0.1	-0.0	-0.7	+0.0
Minimum price 40p	-5	-0.0	-0.1	-0.1	-0.0	-29	-0.2	-0.1	-0.5	-0.8	-0.0	-0.1	-0.2	-0.3	-0.0	-2.2	+0.0
Minimum price 45p	-12	-0.0	-0.2	-0.3	-0.1	-68	-0.5	-0.2	-1.1	-1.9	-0.1	-0.2	-0.3	-0.6	-0.0	-5.1	+0.0
Minimum price 50p	-22	-0.1	-0.3	-0.5	-0.1	-121	-0.9	-0.4	-2.0	-3.3	-0.1	-0.3	-0.5	-0.9	-0.0	-8.9	+0.0
Minimum price 55p	-34	-0.1	-0.5	-0.8	-0.2	-186	-1.3	-0.6	-3.1	-5.1	-0.2	-0.4	-0.7	-1.4	-0.0	-13.9	+0.0
Minimum price 60p	-47	-0.2	-0.7	-1.1	-0.2	-255	-1.8	-0.8	-4.2	-7.0	-0.3	-0.6	-1.0	-1.9	-0.0	-19.3	+0.0
Minimum price 65p	-60	-0.2	-0.9	-1.4	-0.3	-324	-2.4	-1.1	-5.5	-9.0	-0.4	-0.8	-1.3	-2.4	-0.0	-25.1	+0.0
Minimum price 70p	-73	-0.3	-1.1	-1.7	-0.4	-390	-2.9	-1.3	-6.7	-10.9	-0.5	-0.9	-1.6	-2.9	-0.0	-30.9	+0.0
Total off-trade discount ban	-14	-0.1	-0.2	-0.3	-0.1	-80	-0.6	-0.2	-1.3	-2.1	-0.1	-0.2	-0.3	-0.6	-0.0	-6.3	+0.0
Minimum price 25p + total off-t discount ban	-14	-0.1	-0.2	-0.3	-0.1	-80	-0.6	-0.2	-1.3	-2.2	-0.1	-0.2	-0.3	-0.6	-0.0	-6.4	+0.0
Minimum price 30p + total off-t discount ban	-14	-0.1	-0.2	-0.3	-0.1	-81	-0.6	-0.2	-1.3	-2.2	-0.1	-0.2	-0.3	-0.6	-0.0	-6.5	+0.0
Minimum price 35p + total off-t discount ban	-15	-0.1	-0.2	-0.3	-0.1	-86	-0.6	-0.3	-1.4	-2.3	-0.1	-0.2	-0.4	-0.7	-0.0	-7.0	+0.0
Minimum price 40p + total off-t discount ban	-19	-0.1	-0.3	-0.4	-0.1	-104	-0.7	-0.3	-1.7	-2.8	-0.1	-0.3	-0.4	-0.8	-0.0	-8.3	+0.0
Minimum price 45p + total off-t discount ban	-24	-0.1	-0.4	-0.6	-0.1	-136	-1.0	-0.4	-2.2	-3.7	-0.2	-0.3	-0.5	-1.0	-0.0	-10.6	+0.0
Minimum price 50p + total off-t discount ban	-32	-0.1	-0.5	-0.7	-0.2	-179	-1.3	-0.6	-2.9	-4.9	-0.2	-0.4	-0.7	-1.3	-0.0	-13.7	+0.0
Minimum price 55p + total off-t discount ban	-42	-0.1	-0.6	-1.0	-0.2	-232	-1.7	-0.7	-3.8	-6.4	-0.3	-0.5	-0.9	-1.7	-0.0	-17.8	+0.0
Minimum price 60p + total off-t discount ban	-54	-0.2	-0.8	-1.2	-0.3	-292	-2.1	-0.9	-4.9	-8.0	-0.3	-0.7	-1.1	-2.1	-0.0	-22.6	+0.0
Minimum price 65p + total off-t discount ban	-65	-0.2	-1.0	-1.5	-0.3	-352	-2.6	-1.2	-6.0	-9.8	-0.4	-0.8	-1.4	-2.6	-0.0	-27.9	+0.0
Minimum price 70p + total off-t discount ban	-78	-0.3	-1.2	-1.8	-0.4	-414	-3.1	-1.4	-7.1	-11.6	-0.5	-1.0	-1.7	-3.1	-0.0	-33.3	+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)
Minimum price 25p	-1	-0.0	-0.0	-0.0	-0.0	-6	-0.1	-0.0	-0.1	-0.2	-0.0	-0.0	-0.0	-0.1	-0.0	-0.7	-0.1
Minimum price 30p	-2	-0.0	-0.0	-0.1	-0.0	-12	-0.1	-0.0	-0.3	-0.3	-0.0	-0.1	-0.1	-0.2	-0.0	-1.5	-0.2
Minimum price 35p	-4	-0.0	-0.1	-0.1	-0.0	-26	-0.3	-0.1	-0.6	-0.7	-0.0	-0.1	-0.2	-0.4	-0.0	-2.9	-0.3
Minimum price 40p	-8	-0.1	-0.1	-0.2	-0.1	-52	-0.6	-0.1	-1.3	-1.4	-0.1	-0.2	-0.4	-0.7	-0.0	-5.3	-0.6
Minimum price 45p	-14	-0.1	-0.2	-0.4	-0.1	-91	-1.0	-0.2	-2.2	-2.5	-0.1	-0.3	-0.7	-1.2	-0.0	-8.5	-0.9
Minimum price 50p	-22	-0.1	-0.3	-0.6	-0.1	-137	-1.4	-0.3	-3.2	-3.7	-0.2	-0.5	-1.0	-1.7	-0.0	-12.2	-1.3
Minimum price 55p	-30	-0.2	-0.4	-0.8	-0.2	-191	-1.9	-0.4	-4.3	-5.1	-0.3	-0.6	-1.3	-2.2	-0.0	-16.5	-1.7
Minimum price 60p	-39	-0.2	-0.5	-1.1	-0.2	-245	-2.4	-0.5	-5.4	-6.5	-0.4	-0.8	-1.7	-2.8	-0.0	-21.0	-2.0
Minimum price 65p	-47	-0.3	-0.6	-1.3	-0.3	-293	-2.8	-0.6	-6.4	-7.7	-0.4	-1.0	-2.0	-3.4	-0.0	-24.9	-2.3
Minimum price 70p	-55	-0.3	-0.7	-1.5	-0.3	-343	-3.2	-0.7	-7.3	-9.0	-0.5	-1.1	-2.3	-3.9	-0.0	-29.0	-2.6
Total off-trade discount ban	-9	-0.1	-0.1	-0.2	-0.0	-56	-0.6	-0.1	-1.3	-1.5	-0.1	-0.1	-0.3	-0.5	-0.0	-4.2	-0.5
Minimum price 25p + total off-t discount ban	-10	-0.1	-0.1	-0.3	-0.1	-62	-0.6	-0.1	-1.5	-1.6	-0.1	-0.2	-0.4	-0.6	-0.0	-4.8	-0.5
Minimum price 30p + total off-t discount ban	-10	-0.1	-0.1	-0.3	-0.1	-67	-0.7	-0.1	-1.6	-1.8	-0.1	-0.2	-0.4	-0.7	-0.0	-5.5	-0.6
Minimum price 35p + total off-t discount ban	-12	-0.1	-0.2	-0.3	-0.1	-77	-0.8	-0.2	-1.8	-2.1	-0.1	-0.2	-0.5	-0.9	-0.0	-6.6	-0.7
Minimum price 40p + total off-t discount ban	-15	-0.1	-0.2	-0.4	-0.1	-98	-1.0	-0.2	-2.3	-2.7	-0.1	-0.3	-0.7	-1.1	-0.0	-8.6	-0.9
Minimum price 45p + total off-t discount ban	-20	-0.1	-0.3	-0.6	-0.1	-129	-1.3	-0.3	-3.0	-3.5	-0.2	-0.4	-0.9	-1.5	-0.0	-11.2	-1.2
Minimum price 50p + total off-t discount ban	-27	-0.2	-0.4	-0.7	-0.2	-168	-1.7	-0.4	-3.8	-4.5	-0.2	-0.5	-1.1	-1.9	-0.0	-14.5	-1.5
Minimum price 55p + total off-t discount ban	-34	-0.2	-0.4	-0.9	-0.2	-214	-2.1	-0.4	-4.8	-5.7	-0.3	-0.7	-1.4	-2.4	-0.0	-18.3	-1.8
Minimum price 60p + total off-t discount ban	-42	-0.2	-0.6	-1.1	-0.2	-262	-2.5	-0.6	-5.8	-6.9	-0.4	-0.8	-1.8	-3.0	-0.0	-22.4	-2.1
Minimum price 65p + total off-t discount ban	-49	-0.3	-0.7	-1.3	-0.3	-307	-2.9	-0.7	-6.7	-8.1	-0.4	-1.0	-2.1	-3.5	-0.0	-26.1	-2.4
Minimum price 70p + total off-t discount ban	-57	-0.3	-0.8	-1.5	-0.3	-355	-3.3	-0.8	-7.6	-9.3	-0.5	-1.1	-2.4	-4.0	-0.0	-30.0	-2.6

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - TOTAL	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																
Minimum price 25p	+0.4	-1	-1	-2.3	-2.1	+1.0	-1	-1.2	+2	-1	-1	-19	-18	+8	-1	-11
Minimum price 30p	+0.1	-2	-2	-4.8	-5.1	+4	-2	-4.9	-1	-2	-2	-40	-45	-7	-1	-53
Minimum price 35p	-0.5	-5	-5	-9.0	-10.5	-1.4	-3	-12.2	-11	-4	-4	-75	-93	-47	-3	-144
Minimum price 40p	-1.9	-1.0	-1.0	-15.3	-19.2	-5.0	-7	-24.9	-32	-8	-8	-127	-176	-138	-7	-320
Minimum price 45p	-3.9	-1.8	-1.8	-23.2	-30.7	-10.2	-1.3	-42.2	-65	-15	-15	-193	-289	-275	-12	-576
Minimum price 50p	-6.5	-2.9	-3.0	-32.1	-44.5	-16.9	-2.2	-63.6	-107	-24	-25	-267	-423	-451	-20	-894
Minimum price 55p	-9.7	-4.2	-4.4	-41.6	-59.9	-25.2	-3.2	-88.2	-158	-35	-37	-346	-575	-663	-29	-1,268
Minimum price 60p	-13.1	-5.7	-6.0	-50.0	-74.8	-34.2	-4.3	-113.3	-212	-47	-50	-416	-725	-889	-39	-1,654
Minimum price 65p	-16.6	-7.2	-7.6	-56.4	-87.8	-43.4	-5.4	-136.6	-266	-60	-63	-469	-858	-1,112	-50	-2,020
Minimum price 70p	-20.3	-8.8	-9.3	-62.6	-100.9	-52.9	-6.6	-160.4	-321	-73	-77	-521	-992	-1,338	-61	-2,391
Total off-trade discount ban	-3.7	-1.6	-1.8	-11.3	-18.5	-9.8	-1.2	-29.5	-59	-13	-15	-94	-182	-249	-11	-442
Minimum price 25p + total off-t discount ban	-3.8	-1.7	-1.9	-13.3	-20.7	-10.1	-1.3	-32.1	-61	-14	-16	-111	-202	-257	-12	-471
Minimum price 30p + total off-t discount ban	-4.0	-1.8	-2.0	-15.3	-23.0	-10.5	-1.4	-34.8	-63	-15	-17	-127	-222	-268	-13	-502
Minimum price 35p + total off-t discount ban	-4.3	-2.0	-2.2	-18.4	-27.0	-11.5	-1.5	-40.0	-70	-16	-19	-153	-258	-295	-14	-567
Minimum price 40p + total off-t discount ban	-5.3	-2.4	-2.7	-23.3	-33.7	-14.1	-1.8	-49.5	-86	-20	-22	-194	-322	-363	-17	-701
Minimum price 45p + total off-t discount ban	-7.0	-3.0	-3.3	-29.5	-42.8	-18.3	-2.3	-63.3	-112	-25	-28	-245	-411	-474	-21	-906
Minimum price 50p + total off-t discount ban	-9.1	-3.9	-4.3	-36.8	-54.1	-23.8	-2.9	-80.8	-147	-32	-36	-306	-521	-619	-27	-1,167
Minimum price 55p + total off-t discount ban	-11.8	-5.0	-5.5	-44.8	-67.1	-30.8	-3.8	-101.7	-190	-42	-46	-373	-650	-797	-35	-1,482
Minimum price 60p + total off-t discount ban	-14.8	-6.3	-6.9	-52.2	-80.2	-38.7	-4.7	-123.7	-237	-53	-57	-434	-781	-996	-44	-1,821
Minimum price 65p + total off-t discount ban	-18.0	-7.8	-8.3	-58.1	-92.2	-47.2	-5.8	-145.2	-287	-65	-69	-483	-904	-1,199	-54	-2,156
Minimum price 70p + total off-t discount ban	-21.5	-9.2	-9.9	-64.0	-104.6	-56.2	-6.9	-167.7	-339	-77	-83	-532	-1,031	-1,413	-64	-2,507

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	+0.3	-0	-0	+0	+3	+1.0	-0	+1.3	+3	-	-	+	+3	+12	-	+15
Minimum price 30p	+0.3	-0	-0	+0	+3	+8	-0	+1.1	+3	-	-	+	+2	+9	-	+11
Minimum price 35p	+0.0	-0	-1	+0	-1	+1	-0	-0	+	-	-1	+	-1	-3	-	-4
Minimum price 40p	-0.4	-1	-3	+0	-8	-1.2	-1	-2.1	-5	-1	-2	+	-8	-26	-1	-35
Minimum price 45p	-1.0	-4	-6	+0	-2.0	-2.8	-3	-5.1	-12	-3	-5	+	-19	-58	-3	-80
Minimum price 50p	-1.9	-7	-1.0	+0	-3.6	-5.0	-6	-9.2	-21	-6	-8	+	-35	-100	-6	-141
Minimum price 55p	-2.9	-1.2	-1.6	+0	-5.7	-7.8	-1.0	-14.5	-32	-10	-13	+	-55	-153	-9	-217
Minimum price 60p	-4.1	-1.7	-2.3	+0	-8.0	-11.0	-1.4	-20.4	-45	-14	-19	+	-78	-211	-13	-302
Minimum price 65p	-5.3	-2.2	-3.0	+0	-10.6	-14.5	-1.9	-26.9	-59	-18	-25	+	-102	-273	-17	-393
Minimum price 70p	-6.7	-2.8	-3.8	+0	-13.4	-18.2	-2.3	-33.9	-74	-23	-32	+	-129	-338	-22	-488
Total off-trade discount ban	-1.3	-6	-9	+0	-2.8	-3.6	-5	-6.9	-14	-5	-7	+	-26	-66	-4	-97
Minimum price 25p + total off-t discount ban	-1.3	-6	-9	+0	-2.8	-3.6	-5	-6.9	-14	-5	-7	+	-26	-66	-5	-97
Minimum price 30p + total off-t discount ban	-1.3	-6	-9	+0	-2.8	-3.7	-5	-7.0	-14	-5	-7	+	-26	-68	-5	-99
Minimum price 35p + total off-t discount ban	-1.4	-6	-9	+0	-2.9	-3.9	-5	-7.3	-15	-5	-8	+	-28	-73	-5	-105
Minimum price 40p + total off-t discount ban	-1.7	-7	-1.1	+0	-3.4	-4.7	-6	-8.7	-18	-6	-9	+	-33	-88	-5	-126
Minimum price 45p + total off-t discount ban	-2.2	-9	-1.3	+0	-4.4	-6.0	-7	-11.1	-24	-7	-11	+	-42	-114	-7	-163
Minimum price 50p + total off-t discount ban	-2.9	-1.1	-1.7	+0	-5.6	-7.8	-9	-14.4	-31	-9	-14	+	-54	-149	-9	-212
Minimum price 55p + total off-t discount ban	-3.7	-1.5	-2.2	+0	-7.4	-10.1	-1.2	-18.7	-41	-12	-18	+	-71	-192	-11	-275
Minimum price 60p + total off-t discount ban	-4.7	-1.9	-2.7	+0	-9.4	-12.9	-1.6	-23.9	-52	-16	-23	+	-91	-243	-15	-348
Minimum price 65p + total off-t discount ban	-5.9	-2.4	-3.4	+0	-11.7	-16.0	-2.0	-29.8	-65	-20	-28	+	-113	-300	-19	-431
Minimum price 70p + total off-t discount ban	-7.2	-3.0	-4.2	+0	-14.3	-19.5	-2.5	-36.3	-79	-25	-35	+	-138	-360	-23	-521

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HAZARDOUS	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																
Minimum price 25p	+0.1	-0	-0	+0	+1	+3	-0	+4	+1	-	-	+	+1	+4	-	+5
Minimum price 30p	+0.1	-0	-0	+0	+0	+2	-0	+1	+	-	-	+	-	+1	-	+1
Minimum price 35p	-0.1	-1	-1	+0	-2	-1	-1	-5	-2	-1	-1	+	-3	-8	-1	-12
Minimum price 40p	-0.5	-2	-2	+0	-1.0	-1.3	-2	-2.4	-9	-2	-2	+	-13	-39	-2	-54
Minimum price 45p	-1.2	-5	-5	+0	-2.2	-3.1	-4	-5.6	-22	-4	-4	+	-29	-93	-3	-126
Minimum price 50p	-2.2	-8	-8	+0	-3.8	-5.6	-6	-10.0	-39	-6	-7	+	-52	-165	-6	-223
Minimum price 55p	-3.4	-1.2	-1.2	+0	-5.8	-8.6	-9	-15.4	-60	-10	-10	+	-80	-255	-8	-343
Minimum price 60p	-4.8	-1.6	-1.7	+0	-8.1	-12.1	-1.2	-21.4	-84	-13	-14	+	-112	-351	-11	-474
Minimum price 65p	-6.2	-2.1	-2.2	+0	-10.5	-15.6	-1.6	-27.6	-108	-17	-19	+	-144	-449	-15	-608
Minimum price 70p	-7.6	-2.5	-2.8	+0	-12.8	-19.1	-1.9	-33.9	-132	-21	-23	+	-176	-546	-18	-740
Total off-trade discount ban	-1.4	-5	-6	+0	-2.5	-3.7	-4	-6.6	-25	-4	-5	+	-34	-107	-4	-145
Minimum price 25p + total off-t discount ban	-1.4	-5	-6	+0	-2.5	-3.7	-4	-6.6	-25	-4	-5	+	-34	-108	-4	-146
Minimum price 30p + total off-t discount ban	-1.5	-5	-6	+0	-2.6	-3.7	-4	-6.8	-26	-5	-5	+	-35	-110	-4	-149
Minimum price 35p + total off-t discount ban	-1.6	-6	-6	+0	-2.8	-4.0	-5	-7.3	-27	-5	-5	+	-37	-117	-4	-159
Minimum price 40p + total off-t discount ban	-1.9	-7	-8	+0	-3.3	-4.8	-5	-8.7	-33	-6	-6	+	-45	-141	-5	-191
Minimum price 45p + total off-t discount ban	-2.5	-9	-1.0	+0	-4.3	-6.3	-7	-11.3	-43	-7	-8	+	-59	-185	-6	-250
Minimum price 50p + total off-t discount ban	-3.3	-1.1	-1.2	+0	-5.6	-8.3	-9	-14.8	-58	-9	-10	+	-77	-244	-8	-329
Minimum price 55p + total off-t discount ban	-4.3	-1.4	-1.6	+0	-7.3	-10.9	-1.1	-19.4	-76	-12	-13	+	-101	-318	-10	-429
Minimum price 60p + total off-t discount ban	-5.5	-1.8	-2.0	+0	-9.3	-13.9	-1.4	-24.7	-96	-15	-17	+	-128	-402	-13	-544
Minimum price 65p + total off-t discount ban	-6.8	-2.2	-2.5	+0	-11.5	-17.1	-1.8	-30.4	-118	-19	-21	+	-158	-491	-16	-665
Minimum price 70p + total off-t discount ban	-8.1	-2.7	-3.0	+0	-13.7	-20.4	-2.1	-36.3	-141	-22	-25	+	-188	-582	-19	-789

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario	Year 1	Year 1	Year 1	Year 1	Year 1	value	value	Year 1	Years 1-10	Years 1-10	Years 1-10	Years 1-10	Years 1-10	value	value	Year 1-10
Minimum price 25p	-0.1	-1	-1	-2.3	-2.6	-3	-0	-2.9	-2	-	-1	-19	-23	-8	-	-31
Minimum price 30p	-0.2	-2	-2	-4.8	-5.3	-6	-1	-6.1	-4	-1	-1	-40	-47	-17	-1	-65
Minimum price 35p	-0.5	-3	-3	-9.0	-10.1	-1.3	-2	-11.7	-9	-3	-3	-75	-90	-36	-2	-128
Minimum price 40p	-1.0	-6	-5	-15.3	-17.4	-2.5	-4	-20.3	-19	-5	-4	-127	-155	-72	-4	-231
Minimum price 45p	-1.6	-9	-8	-23.2	-26.6	-4.2	-6	-31.4	-32	-8	-7	-193	-240	-123	-6	-369
Minimum price 50p	-2.4	-1.3	-1.2	-32.1	-37.0	-6.2	-9	-44.1	-48	-11	-10	-267	-336	-185	-8	-529
Minimum price 55p	-3.3	-1.8	-1.6	-41.6	-48.2	-8.5	-1.2	-57.9	-65	-15	-13	-346	-438	-254	-11	-703
Minimum price 60p	-4.2	-2.2	-2.0	-50.0	-58.4	-10.9	-1.5	-70.8	-83	-18	-16	-416	-533	-324	-14	-871
Minimum price 65p	-5.0	-2.6	-2.3	-56.4	-66.3	-13.0	-1.8	-81.1	-98	-22	-19	-469	-608	-387	-16	-1,011
Minimum price 70p	-5.9	-3.1	-2.7	-62.6	-74.2	-15.2	-2.1	-91.5	-114	-26	-22	-521	-683	-451	-19	-1,153
Total off-trade discount ban	-0.9	-4	-4	-11.3	-13.1	-2.4	-3	-15.7	-20	-3	-3	-94	-120	-75	-2	-198
Minimum price 25p + total off-t discount ban	-1.0	-5	-5	-13.3	-15.3	-2.7	-3	-18.3	-21	-4	-4	-111	-140	-82	-3	-225
Minimum price 30p + total off-t discount ban	-1.1	-5	-5	-15.3	-17.5	-2.9	-4	-20.8	-23	-4	-4	-127	-159	-90	-3	-252
Minimum price 35p + total off-t discount ban	-1.3	-7	-6	-18.4	-21.1	-3.5	-4	-25.0	-27	-6	-5	-153	-191	-104	-4	-300
Minimum price 40p + total off-t discount ban	-1.7	-9	-8	-23.3	-26.7	-4.5	-6	-31.8	-34	-7	-7	-194	-242	-133	-6	-381
Minimum price 45p + total off-t discount ban	-2.2	-1.2	-1.1	-29.5	-34.0	-5.8	-8	-40.6	-45	-10	-9	-245	-309	-174	-7	-489
Minimum price 50p + total off-t discount ban	-2.9	-1.5	-1.4	-36.8	-42.6	-7.5	-1.0	-51.1	-58	-13	-11	-306	-388	-224	-9	-622
Minimum price 55p + total off-t discount ban	-3.7	-1.9	-1.7	-44.8	-52.1	-9.6	-1.3	-63.0	-73	-16	-14	-373	-476	-284	-12	-772
Minimum price 60p + total off-t discount ban	-4.5	-2.3	-2.1	-52.2	-61.1	-11.7	-1.6	-74.4	-89	-19	-17	-434	-559	-347	-14	-921
Minimum price 65p + total off-t discount ban	-5.3	-2.7	-2.4	-58.1	-68.4	-13.7	-1.8	-83.9	-103	-23	-20	-483	-628	-405	-17	-1,051
Minimum price 70p + total off-t discount ban	-6.1	-3.2	-2.8	-64.0	-76.0	-15.8	-2.1	-93.9	-118	-26	-23	-532	-699	-467	-19	-1,185

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 consump.
Policy Scenario														
Minimum price 25p	-0.1%	-1.9	+0.7	+0.1	+0.0	-1.1	+3.8	+1.9	-0.1	+0.7	+6.3	+0.3%	+1.70	+1.17
Minimum price 30p	-0.4%	-3.9	+1.2	+0.2	+0.0	-2.5	+7.9	+4.2	-0.6	+1.4	+13.0	+0.6%	+3.53	+2.69
Minimum price 35p	-0.8%	-6.9	+1.5	-0.7	+0.0	-6.0	+15.4	+8.0	-2.0	+2.7	+24.0	+1.2%	+6.52	+5.98
Minimum price 40p	-1.9%	-10.2	+0.8	-4.0	+0.0	-13.4	+29.2	+13.7	-5.7	+4.7	+41.8	+2.0%	+11.36	+12.89
Minimum price 45p	-3.5%	-14.1	-2.5	-8.9	+0.1	-25.3	+48.0	+21.1	-12.1	+7.3	+64.3	+3.1%	+17.46	+23.95
Minimum price 50p	-5.7%	-18.6	-7.7	-14.7	+0.1	-40.8	+68.3	+29.3	-20.6	+10.1	+87.2	+4.2%	+23.67	+38.21
Minimum price 55p	-8.3%	-23.6	-15.0	-21.2	+0.1	-59.7	+88.2	+38.3	-31.6	+13.2	+108.1	+5.2%	+29.36	+55.37
Minimum price 60p	-11.1%	-28.7	-23.5	-28.2	+0.1	-80.2	+104.6	+47.7	-44.5	+16.5	+124.3	+6.0%	+33.74	+74.20
Minimum price 65p	-14.0%	-32.2	-32.9	-35.6	+0.2	-100.5	+118.3	+57.6	-58.0	+19.8	+137.7	+6.6%	+37.40	+94.41
Minimum price 70p	-16.9%	-35.5	-43.0	-43.2	+0.1	-121.6	+126.5	+68.5	-72.9	+23.3	+145.4	+7.0%	+39.49	+115.74
Total off-trade discount ban	-3.0%	-5.5	-12.9	-3.3	-0.1	-21.9	+41.9	+8.1	-8.3	+2.8	+44.5	+2.1%	+12.08	+22.01
Minimum price 25p + total off-t discount ban	-3.2%	-7.1	-12.4	-3.2	-0.1	-22.9	+44.9	+9.8	-8.6	+3.4	+49.5	+2.4%	+13.45	+23.03
Minimum price 30p + total off-t discount ban	-3.4%	-8.7	-12.1	-3.2	-0.1	-24.2	+47.9	+11.6	-9.0	+4.0	+54.5	+2.6%	+14.79	+24.25
Minimum price 35p + total off-t discount ban	-3.7%	-11.0	-12.0	-4.0	-0.1	-27.0	+53.4	+14.6	-10.3	+5.0	+62.7	+3.0%	+17.02	+26.83
Minimum price 40p + total off-t discount ban	-4.6%	-13.4	-12.7	-7.0	-0.1	-33.2	+63.8	+19.5	-13.7	+6.8	+76.4	+3.7%	+20.75	+32.43
Minimum price 45p + total off-t discount ban	-6.0%	-16.2	-15.3	-11.4	-0.1	-43.0	+77.3	+26.0	-19.4	+9.0	+92.8	+4.4%	+25.20	+41.28
Minimum price 50p + total off-t discount ban	-7.8%	-19.9	-19.3	-16.6	-0.1	-55.8	+91.3	+33.2	-27.2	+11.5	+108.9	+5.2%	+29.56	+52.83
Minimum price 55p + total off-t discount ban	-10.0%	-24.3	-25.1	-22.4	-0.0	-71.9	+104.9	+41.4	-37.3	+14.3	+123.3	+5.9%	+33.48	+67.28
Minimum price 60p + total off-t discount ban	-12.5%	-29.0	-32.1	-29.0	-0.0	-90.0	+116.1	+50.2	-49.4	+17.4	+134.2	+6.4%	+36.44	+83.81
Minimum price 65p + total off-t discount ban	-15.1%	-32.2	-40.5	-36.2	-0.0	-108.9	+126.0	+59.7	-62.5	+20.6	+143.8	+6.9%	+39.03	+102.47
Minimum price 70p + total off-t discount ban	-17.9%	-35.4	-49.8	-43.7	-0.0	-128.9	+131.2	+70.3	-77.1	+23.9	+148.4	+7.1%	+40.28	+122.70

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 spend p.a. if no change in consump.
Policy Scenario														
Minimum price 25p	+0.0%	-0.2	+0.1	+0.1	+0.0	+0.0	+0.5	+0.5	+0.0	+0.2	+1.3	+0.2%	+0.50	+0.21
Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.0	+1.1	+1.0	+0.0	+0.3	+2.5	+0.3%	+0.96	+0.49
Minimum price 35p	-0.2%	-0.4	-0.1	+0.0	+0.0	-0.5	+2.4	+1.8	-0.1	+0.6	+4.7	+0.6%	+1.80	+1.21
Minimum price 40p	-0.7%	-0.6	-0.6	-0.8	+0.0	-2.0	+5.3	+2.8	-0.5	+0.9	+8.6	+1.1%	+3.31	+3.03
Minimum price 45p	-1.5%	-0.8	-1.9	-2.1	+0.0	-4.8	+9.9	+4.2	-1.3	+1.4	+14.2	+1.9%	+5.51	+6.27
Minimum price 50p	-2.8%	-1.3	-3.8	-3.5	+0.0	-8.6	+15.8	+5.8	-2.5	+2.0	+21.1	+2.8%	+8.19	+10.78
Minimum price 55p	-4.3%	-1.8	-6.4	-5.3	+0.0	-13.4	+22.5	+7.7	-3.9	+2.6	+28.8	+3.8%	+11.17	+16.56
Minimum price 60p	-6.1%	-2.4	-9.3	-7.2	+0.0	-18.9	+29.2	+9.6	-5.8	+3.2	+36.3	+4.7%	+14.06	+23.11
Minimum price 65p	-8.0%	-3.1	-12.5	-9.4	+0.0	-24.9	+35.4	+11.7	-8.0	+3.9	+43.0	+5.6%	+16.65	+30.28
Minimum price 70p	-10.0%	-3.8	-15.9	-11.6	+0.1	-31.3	+40.5	+14.0	-10.5	+4.6	+48.6	+6.3%	+18.82	+37.94
Total off-trade discount ban	-2.0%	-0.7	-4.6	-1.0	-0.0	-6.4	+12.0	+1.8	-1.1	+0.6	+13.2	+1.7%	+5.13	+8.31
Minimum price 25p + total off-t discount ban	-2.0%	-0.9	-4.5	-1.0	-0.0	-6.3	+12.5	+2.2	-1.1	+0.7	+14.3	+1.9%	+5.55	+8.49
Minimum price 30p + total off-t discount ban	-2.1%	-1.0	-4.5	-0.9	-0.0	-6.4	+12.9	+2.6	-1.1	+0.9	+15.3	+2.0%	+5.93	+8.73
Minimum price 35p + total off-t discount ban	-2.2%	-1.1	-4.7	-1.0	-0.0	-6.8	+13.9	+3.2	-1.2	+1.1	+17.0	+2.2%	+6.58	+9.30
Minimum price 40p + total off-t discount ban	-2.6%	-1.1	-5.2	-1.8	-0.0	-8.1	+16.2	+4.2	-1.7	+1.4	+20.1	+2.6%	+7.79	+10.81
Minimum price 45p + total off-t discount ban	-3.3%	-1.3	-6.2	-2.9	-0.0	-10.4	+19.6	+5.4	-2.4	+1.8	+24.4	+3.2%	+9.45	+13.39
Minimum price 50p + total off-t discount ban	-4.3%	-1.6	-7.6	-4.2	-0.0	-13.4	+23.8	+6.8	-3.4	+2.3	+29.5	+3.8%	+11.41	+16.96
Minimum price 55p + total off-t discount ban	-5.6%	-2.0	-9.7	-5.7	-0.0	-17.4	+28.8	+8.4	-4.8	+2.8	+35.2	+4.6%	+13.63	+21.69
Minimum price 60p + total off-t discount ban	-7.1%	-2.5	-12.1	-7.5	+0.0	-22.1	+33.9	+10.2	-6.5	+3.4	+41.0	+5.3%	+15.87	+27.30
Minimum price 65p + total off-t discount ban	-8.9%	-3.1	-14.9	-9.6	+0.0	-27.6	+38.8	+12.2	-8.7	+4.0	+46.4	+6.0%	+17.97	+33.82
Minimum price 70p + total off-t discount ban	-10.8%	-3.8	-18.0	-11.8	+0.0	-33.6	+43.0	+14.5	-11.2	+4.7	+51.0	+6.6%	+19.77	+41.00

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.
Minimum price 25p	-0.0%	-2.3	+1.8	+0.2	+0.0	-0.2	+1.6	+1.0	+0.2	+0.3	+3.1	+0.4%	+3.89	+2.03
Minimum price 30p	-0.1%	-4.8	+3.4	+0.3	+0.0	-1.0	+3.5	+2.2	+0.2	+0.7	+6.6	+0.8%	+8.35	+4.76
Minimum price 35p	-0.3%	-8.3	+4.9	-1.4	+0.0	-4.8	+6.8	+4.1	-0.0	+1.4	+12.3	+1.5%	+15.44	+10.68
Minimum price 40p	-1.2%	-12.0	+3.7	-8.1	+0.1	-16.3	+12.9	+7.1	-1.3	+2.4	+21.1	+2.6%	+26.54	+23.74
Minimum price 45p	-2.7%	-16.2	-3.9	-18.1	+0.1	-38.1	+21.3	+10.8	-3.8	+3.7	+32.0	+3.9%	+40.33	+45.77
Minimum price 50p	-4.8%	-21.2	-16.4	-30.5	+0.1	-67.9	+30.6	+14.9	-7.5	+5.1	+43.1	+5.3%	+54.31	+74.48
Minimum price 55p	-7.5%	-26.9	-34.6	-44.2	+0.1	-105.6	+39.6	+19.4	-12.4	+6.7	+53.3	+6.5%	+67.14	+109.43
Minimum price 60p	-10.5%	-33.1	-55.4	-59.0	+0.1	-147.4	+46.8	+24.1	-18.3	+8.3	+61.0	+7.5%	+76.78	+147.68
Minimum price 65p	-13.6%	-37.3	-79.0	-74.8	+0.1	-191.0	+52.3	+29.1	-24.8	+10.0	+66.6	+8.2%	+83.87	+189.00
Minimum price 70p	-16.7%	-40.0	-104.1	-91.1	+0.1	-235.1	+55.5	+34.4	-31.7	+11.7	+69.8	+8.6%	+87.94	+232.42
Total off-trade discount ban	-3.3%	-7.3	-31.5	-7.5	-0.1	-46.5	+17.8	+4.0	-4.2	+1.4	+18.9	+2.3%	+23.82	+45.20
Minimum price 25p + total off-t discount ban	-3.3%	-9.4	-30.1	-7.3	-0.1	-46.9	+19.1	+4.8	-4.1	+1.7	+21.5	+2.6%	+27.05	+47.02
Minimum price 30p + total off-t discount ban	-3.4%	-11.3	-29.1	-7.3	-0.1	-47.9	+20.5	+5.8	-4.1	+2.0	+24.1	+3.0%	+30.40	+49.24
Minimum price 35p + total off-t discount ban	-3.6%	-13.8	-28.3	-8.9	-0.1	-51.2	+23.1	+7.3	-4.4	+2.5	+28.5	+3.5%	+35.90	+53.97
Minimum price 40p + total off-t discount ban	-4.3%	-16.2	-29.7	-15.0	-0.1	-61.0	+27.8	+9.9	-5.6	+3.4	+35.5	+4.4%	+44.73	+64.67
Minimum price 45p + total off-t discount ban	-5.6%	-19.0	-35.7	-24.0	-0.1	-78.7	+33.9	+13.1	-7.9	+4.5	+43.7	+5.4%	+55.09	+82.30
Minimum price 50p + total off-t discount ban	-7.3%	-22.8	-45.2	-34.9	-0.0	-103.0	+40.3	+16.8	-11.2	+5.8	+51.8	+6.3%	+65.17	+105.46
Minimum price 55p + total off-t discount ban	-9.6%	-27.8	-59.6	-47.2	-0.0	-134.6	+46.4	+20.9	-15.6	+7.2	+58.9	+7.2%	+74.21	+134.69
Minimum price 60p + total off-t discount ban	-12.2%	-33.4	-76.8	-61.1	-0.0	-171.3	+51.2	+25.3	-21.1	+8.8	+64.2	+7.9%	+80.82	+168.10
Minimum price 65p + total off-t discount ban	-15.0%	-37.2	-97.7	-76.4	-0.0	-211.3	+54.9	+30.0	-27.4	+10.4	+68.0	+8.3%	+85.58	+206.11
Minimum price 70p + total off-t discount ban	-18.0%	-39.7	-120.8	-92.4	-0.0	-253.0	+56.7	+35.2	-34.2	+12.0	+69.7	+8.6%	+87.80	+247.20

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)	
	% 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.
Minimum price 25p	-0.6%	-25.3	+4.0	+0.1	+0.0	-21.1	+1.6	+0.4	-0.4	+0.2	+1.9	+0.4%	+10.35	+11.83
Minimum price 30p	-1.2%	-54.5	+7.9	+0.1	+0.1	-46.5	+3.3	+1.0	-0.9	+0.4	+3.8	+0.8%	+21.18	+26.68
Minimum price 35p	-2.5%	-97.4	+11.2	-7.2	+0.2	-93.2	+6.1	+2.1	-1.9	+0.7	+7.0	+1.5%	+38.69	+57.30
Minimum price 40p	-4.5%	-146.5	+8.6	-33.7	+0.4	-171.2	+10.9	+3.8	-3.9	+1.3	+12.1	+2.7%	+66.43	+114.02
Minimum price 45p	-7.3%	-202.3	-5.8	-70.8	+0.6	-278.3	+16.5	+6.0	-6.9	+2.1	+17.7	+3.9%	+97.76	+195.11
Minimum price 50p	-10.7%	-265.6	-28.8	-113.6	+0.8	-407.3	+21.7	+8.4	-10.6	+3.0	+22.4	+4.9%	+123.42	+292.89
Minimum price 55p	-14.6%	-335.0	-60.8	-159.8	+1.0	-554.6	+25.5	+10.9	-15.2	+3.9	+25.2	+5.5%	+138.71	+403.93
Minimum price 60p	-18.6%	-401.7	-98.4	-208.6	+1.3	-707.4	+27.8	+13.6	-20.3	+4.8	+25.9	+5.7%	+142.74	+522.69
Minimum price 65p	-22.2%	-444.7	-140.9	-258.6	+1.6	-842.6	+29.6	+16.5	-25.1	+5.8	+26.8	+5.9%	+147.74	+647.32
Minimum price 70p	-25.9%	-488.6	-186.7	-309.5	+1.1	-983.7	+29.4	+19.6	-30.4	+6.8	+25.4	+5.6%	+140.04	+778.01
Total off-trade discount ban	-3.9%	-68.9	-57.5	-19.4	-1.5	-147.3	+11.7	+2.2	-2.9	+0.8	+11.8	+2.6%	+65.06	+126.30
Minimum price 25p + total off-t discount ban	-4.4%	-90.8	-54.3	-19.4	-1.5	-166.1	+12.9	+2.6	-3.3	+0.9	+13.2	+2.9%	+72.59	+136.52
Minimum price 30p + total off-t discount ban	-4.9%	-113.8	-51.8	-19.6	-1.4	-186.6	+14.0	+3.1	-3.7	+1.1	+14.5	+3.2%	+79.74	+148.18
Minimum price 35p + total off-t discount ban	-5.9%	-146.3	-49.8	-26.3	-1.3	-223.8	+16.0	+3.9	-4.7	+1.4	+16.6	+3.7%	+91.62	+171.53
Minimum price 40p + total off-t discount ban	-7.6%	-183.7	-52.6	-50.6	-1.2	-288.2	+19.3	+5.4	-6.4	+1.9	+20.1	+4.4%	+111.02	+216.69
Minimum price 45p + total off-t discount ban	-9.9%	-227.4	-64.2	-84.0	-1.0	-376.7	+23.1	+7.3	-9.1	+2.6	+23.9	+5.3%	+131.77	+281.69
Minimum price 50p + total off-t discount ban	-12.8%	-280.5	-82.0	-123.0	-0.8	-486.3	+26.5	+9.4	-12.5	+3.4	+26.8	+5.9%	+147.54	+362.74
Minimum price 55p + total off-t discount ban	-16.2%	-342.9	-107.6	-165.5	-0.6	-616.7	+28.9	+11.8	-16.8	+4.2	+28.1	+6.2%	+154.71	+459.13
Minimum price 60p + total off-t discount ban	-19.9%	-405.0	-138.8	-211.8	-0.4	-756.0	+30.0	+14.3	-21.6	+5.1	+27.7	+6.1%	+152.86	+566.26
Minimum price 65p + total off-t discount ban	-23.2%	-445.5	-176.6	-260.9	-0.1	-883.0	+31.1	+17.0	-26.2	+6.0	+27.9	+6.1%	+153.56	+683.48
Minimum price 70p + total off-t discount ban	-26.8%	-488.0	-218.8	-311.4	-0.5	-1018.6	+30.2	+20.1	-31.4	+7.0	+25.8	+5.7%	+142.36	+809.01

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.	
	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																	
Minimum price 25p	+2	-0.0	+0.1	+0.1	+0.0	-4	-0.1	+0.1	-0.1	+0.1	-0.0	-0.0	-0.2	-0.3	-0.0	-0.7	-0.1
Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-13	-0.2	+0.1	-0.3	-0.2	-0.1	-0.1	-0.5	-0.7	-0.0	-1.9	-0.2
Minimum price 35p	-5	-0.0	-0.1	-0.1	-0.0	-38	-0.4	-0.0	-0.8	-1.1	-0.2	-0.3	-1.1	-1.5	-0.0	-4.5	-0.3
Minimum price 40p	-17	-0.1	-0.3	-0.5	-0.1	-99	-0.9	-0.3	-2.1	-3.0	-0.4	-0.6	-2.1	-3.1	-0.0	-10.2	-0.6
Minimum price 45p	-36	-0.2	-0.5	-1.0	-0.2	-196	-1.7	-0.6	-4.1	-6.0	-0.7	-1.1	-3.7	-5.4	-0.0	-19.6	-0.9
Minimum price 50p	-60	-0.3	-0.9	-1.6	-0.3	-318	-2.7	-1.0	-6.5	-9.8	-1.1	-1.8	-5.7	-8.6	-0.1	-32.3	-1.3
Minimum price 55p	-89	-0.4	-1.4	-2.3	-0.5	-464	-3.9	-1.5	-9.3	-14.4	-1.7	-2.6	-8.2	-12.4	-0.1	-48.2	-1.7
Minimum price 60p	-120	-0.5	-1.9	-3.1	-0.7	-615	-5.2	-2.0	-12.3	-19.3	-2.3	-3.5	-10.8	-16.6	-0.1	-65.9	-2.0
Minimum price 65p	-151	-0.6	-2.4	-3.9	-0.9	-759	-6.3	-2.6	-15.2	-24.0	-2.9	-4.4	-13.4	-20.7	-0.2	-84.0	-2.3
Minimum price 70p	-182	-0.7	-3.0	-4.8	-1.1	-902	-7.5	-3.2	-18.1	-28.8	-3.5	-5.4	-16.1	-25.0	-0.2	-102.8	-2.6
Total off-trade discount ban	-33	-0.1	-0.5	-0.9	-0.2	-169	-1.4	-0.6	-3.4	-5.4	-0.7	-1.0	-2.9	-4.5	-0.0	-20.2	-0.5
Minimum price 25p + total off-t discount ban	-34	-0.1	-0.6	-0.9	-0.2	-175	-1.5	-0.6	-3.5	-5.6	-0.7	-1.0	-3.1	-4.8	-0.0	-20.9	-0.5
Minimum price 30p + total off-t discount ban	-35	-0.1	-0.6	-0.9	-0.2	-183	-1.6	-0.6	-3.7	-5.8	-0.7	-1.1	-3.3	-5.1	-0.0	-21.9	-0.6
Minimum price 35p + total off-t discount ban	-39	-0.2	-0.6	-1.0	-0.2	-202	-1.7	-0.7	-4.1	-6.4	-0.8	-1.2	-3.8	-5.8	-0.0	-24.1	-0.7
Minimum price 40p + total off-t discount ban	-48	-0.2	-0.8	-1.3	-0.3	-249	-2.1	-0.8	-5.1	-7.9	-0.9	-1.5	-4.6	-7.0	-0.1	-28.8	-0.9
Minimum price 45p + total off-t discount ban	-63	-0.3	-1.0	-1.7	-0.4	-327	-2.8	-1.1	-6.6	-10.3	-1.2	-1.8	-5.8	-8.9	-0.1	-36.5	-1.2
Minimum price 50p + total off-t discount ban	-83	-0.3	-1.3	-2.2	-0.5	-427	-3.6	-1.4	-8.6	-13.4	-1.6	-2.4	-7.5	-11.4	-0.1	-46.8	-1.5
Minimum price 55p + total off-t discount ban	-107	-0.4	-1.7	-2.8	-0.6	-548	-4.6	-1.8	-11.0	-17.2	-2.0	-3.1	-9.6	-14.7	-0.1	-60.2	-1.8
Minimum price 60p + total off-t discount ban	-134	-0.5	-2.2	-3.5	-0.8	-681	-5.7	-2.3	-13.6	-21.5	-2.5	-3.9	-12.0	-18.4	-0.1	-75.6	-2.1
Minimum price 65p + total off-t discount ban	-162	-0.6	-2.6	-4.2	-1.0	-811	-6.8	-2.9	-16.2	-25.9	-3.1	-4.7	-14.4	-22.2	-0.2	-92.2	-2.4
Minimum price 70p + total off-t discount ban	-192	-0.7	-3.2	-5.0	-1.1	-946	-7.9	-3.4	-19.0	-30.4	-3.7	-5.6	-16.9	-26.3	-0.2	-109.9	-2.6

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																	
Minimum price 25p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	+0.0
Minimum price 30p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.3	+0.0
Minimum price 35p	+0	-0.0	+0.0	+0.0	+0.0	+0	-0.0	+0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.1	-0.0	-0.9	+0.0
Minimum price 40p	-3	-0.0	-0.1	-0.1	-0.0	-3	-0.0	-0.1	-0.2	-0.6	-0.1	-0.1	-0.2	-0.3	-0.0	-2.7	+0.0
Minimum price 45p	-7	-0.0	-0.2	-0.2	-0.1	-8	-0.1	-0.2	-0.4	-1.2	-0.2	-0.2	-0.5	-0.8	-0.0	-6.0	+0.0
Minimum price 50p	-12	-0.0	-0.3	-0.4	-0.1	-15	-0.2	-0.3	-0.7	-2.1	-0.3	-0.4	-0.9	-1.6	-0.0	-11.0	+0.0
Minimum price 55p	-19	-0.0	-0.5	-0.6	-0.2	-23	-0.3	-0.5	-1.1	-3.2	-0.5	-0.6	-1.5	-2.6	-0.0	-17.5	+0.0
Minimum price 60p	-26	-0.0	-0.7	-0.9	-0.2	-32	-0.4	-0.7	-1.6	-4.5	-0.7	-0.9	-2.2	-3.8	-0.0	-25.1	+0.0
Minimum price 65p	-34	-0.1	-0.9	-1.1	-0.3	-42	-0.6	-0.9	-2.0	-5.8	-0.9	-1.2	-2.9	-5.1	-0.1	-33.4	+0.0
Minimum price 70p	-43	-0.1	-1.1	-1.4	-0.4	-53	-0.7	-1.2	-2.6	-7.1	-1.2	-1.5	-3.7	-6.4	-0.1	-42.2	+0.0
Total off-trade discount ban	-8	-0.0	-0.2	-0.3	-0.1	-10	-0.1	-0.2	-0.5	-1.4	-0.2	-0.3	-0.8	-1.3	-0.0	-9.5	+0.0
Minimum price 25p + total off-t discount ban	-8	-0.0	-0.2	-0.3	-0.1	-10	-0.1	-0.2	-0.5	-1.4	-0.2	-0.3	-0.8	-1.3	-0.0	-9.5	+0.0
Minimum price 30p + total off-t discount ban	-8	-0.0	-0.2	-0.3	-0.1	-10	-0.1	-0.2	-0.5	-1.4	-0.2	-0.3	-0.8	-1.3	-0.0	-9.7	+0.0
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	-0.3	-0.3	-0.8	-1.4	-0.0	-10.3	+0.0
Minimum price 40p + total off-t discount ban	-11	-0.0	-0.3	-0.4	-0.1	-13	-0.2	-0.3	-0.6	-1.9	-0.3	-0.4	-0.9	-1.5	-0.0	-11.7	+0.0
Minimum price 45p + total off-t discount ban	-14	-0.0	-0.4	-0.5	-0.1	-17	-0.2	-0.4	-0.8	-2.4	-0.4	-0.5	-1.1	-1.9	-0.0	-14.4	+0.0
Minimum price 50p + total off-t discount ban	-18	-0.0	-0.5	-0.6	-0.2	-23	-0.3	-0.5	-1.1	-3.1	-0.5	-0.6	-1.5	-2.5	-0.0	-18.3	+0.0
Minimum price 55p + total off-t discount ban	-24	-0.0	-0.6	-0.8	-0.2	-29	-0.4	-0.6	-1.4	-4.1	-0.6	-0.8	-1.9	-3.4	-0.0	-23.6	+0.0
Minimum price 60p + total off-t discount ban	-30	-0.0	-0.8	-1.0	-0.3	-37	-0.5	-0.8	-1.8	-5.1	-0.8	-1.1	-2.5	-4.4	-0.0	-30.0	+0.0
Minimum price 65p + total off-t discount ban	-38	-0.1	-1.0	-1.3	-0.3	-46	-0.6	-1.0	-2.3	-6.3	-1.0	-1.3	-3.2	-5.5	-0.1	-37.5	+0.0
Minimum price 70p + total off-t discount ban	-46	-0.1	-1.2	-1.5	-0.4	-56	-0.7	-1.3	-2.7	-7.6	-1.3	-1.6	-3.9	-6.8	-0.1	-45.8	+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.	
	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																	
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	-0.0	+0.0
Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-1	-0.0	+0.0	+0.0	+0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.1	+0.0
Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-7	-0.0	-0.0	-0.1	-0.2	-0.0	-0.1	-0.2	-0.3	-0.0	-0.7	+0.0
Minimum price 40p	-5	-0.0	-0.1	-0.1	-0.0	-32	-0.2	-0.1	-0.5	-0.8	-0.1	-0.1	-0.4	-0.7	-0.0	-2.2	+0.0
Minimum price 45p	-13	-0.0	-0.2	-0.3	-0.1	-76	-0.5	-0.2	-1.2	-2.0	-0.2	-0.3	-0.8	-1.3	-0.0	-5.1	+0.0
Minimum price 50p	-23	-0.1	-0.3	-0.5	-0.1	-135	-0.9	-0.4	-2.1	-3.5	-0.3	-0.5	-1.3	-2.1	-0.0	-8.9	+0.0
Minimum price 55p	-36	-0.1	-0.5	-0.8	-0.2	-208	-1.4	-0.6	-3.3	-5.4	-0.5	-0.7	-2.0	-3.1	-0.0	-13.9	+0.0
Minimum price 60p	-49	-0.2	-0.7	-1.1	-0.2	-285	-2.0	-0.8	-4.6	-7.5	-0.7	-0.9	-2.6	-4.2	-0.0	-19.3	+0.0
Minimum price 65p	-63	-0.2	-0.9	-1.4	-0.3	-362	-2.6	-1.1	-5.9	-9.5	-0.8	-1.2	-3.4	-5.5	-0.1	-25.1	+0.0
Minimum price 70p	-77	-0.3	-1.1	-1.7	-0.4	-436	-3.1	-1.3	-7.2	-11.6	-1.0	-1.5	-4.2	-6.7	-0.1	-30.9	+0.0
Total off-trade discount ban	-15	-0.1	-0.2	-0.3	-0.1	-88	-0.6	-0.2	-1.4	-2.3	-0.2	-0.3	-0.8	-1.3	-0.0	-6.3	+0.0
Minimum price 25p + total off-t discount ban	-15	-0.1	-0.2	-0.3	-0.1	-88	-0.6	-0.2	-1.4	-2.3	-0.2	-0.3	-0.9	-1.4	-0.0	-6.4	+0.0
Minimum price 30p + total off-t discount ban	-15	-0.1	-0.2	-0.3	-0.1	-90	-0.6	-0.2	-1.4	-2.3	-0.2	-0.3	-0.9	-1.4	-0.0	-6.5	+0.0
Minimum price 35p + total off-t discount ban	-16	-0.1	-0.2	-0.4	-0.1	-95	-0.7	-0.3	-1.5	-2.5	-0.2	-0.4	-1.0	-1.6	-0.0	-7.0	+0.0
Minimum price 40p + total off-t discount ban	-19	-0.1	-0.3	-0.4	-0.1	-115	-0.8	-0.3	-1.8	-3.0	-0.3	-0.4	-1.2	-1.9	-0.0	-8.3	+0.0
Minimum price 45p + total off-t discount ban	-26	-0.1	-0.4	-0.6	-0.1	-151	-1.0	-0.4	-2.4	-3.9	-0.4	-0.5	-1.4	-2.3	-0.0	-10.6	+0.0
Minimum price 50p + total off-t discount ban	-34	-0.1	-0.5	-0.8	-0.2	-199	-1.4	-0.6	-3.1	-5.2	-0.5	-0.7	-1.9	-3.0	-0.0	-13.7	+0.0
Minimum price 55p + total off-t discount ban	-44	-0.2	-0.6	-1.0	-0.2	-258	-1.8	-0.7	-4.1	-6.7	-0.6	-0.8	-2.4	-3.8	-0.0	-17.8	+0.0
Minimum price 60p + total off-t discount ban	-56	-0.2	-0.8	-1.3	-0.3	-325	-2.3	-0.9	-5.2	-8.5	-0.7	-1.1	-3.0	-4.8	-0.0	-22.6	+0.0
Minimum price 65p + total off-t discount ban	-69	-0.3	-1.0	-1.5	-0.3	-394	-2.8	-1.2	-6.4	-10.4	-0.9	-1.3	-3.7	-6.0	-0.1	-27.9	+0.0
Minimum price 70p + total off-t discount ban	-81	-0.3	-1.2	-1.8	-0.4	-463	-3.3	-1.4	-7.7	-12.3	-1.1	-1.6	-4.4	-7.1	-0.1	-33.3	+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.	
	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)
Minimum price 25p	-1	-0.0	-0.0	-0.0	-0.0	-7	-0.1	-0.0	-0.2	-0.2	-0.0	-0.0	-0.2	-0.2	-0.0	-0.7	-0.1
Minimum price 30p	-2	-0.0	-0.0	-0.1	-0.0	-14	-0.2	-0.0	-0.3	-0.4	-0.1	-0.1	-0.4	-0.6	-0.0	-1.5	-0.2
Minimum price 35p	-4	-0.0	-0.1	-0.1	-0.0	-31	-0.3	-0.1	-0.7	-0.8	-0.1	-0.2	-0.9	-1.2	-0.0	-2.9	-0.3
Minimum price 40p	-9	-0.1	-0.1	-0.3	-0.1	-64	-0.6	-0.1	-1.4	-1.6	-0.2	-0.4	-1.5	-2.1	-0.0	-5.3	-0.6
Minimum price 45p	-16	-0.1	-0.2	-0.4	-0.1	-112	-1.1	-0.2	-2.5	-2.8	-0.3	-0.6	-2.4	-3.3	-0.0	-8.5	-0.9
Minimum price 50p	-25	-0.2	-0.3	-0.7	-0.1	-169	-1.6	-0.3	-3.6	-4.2	-0.5	-0.8	-3.3	-4.6	-0.0	-12.2	-1.3
Minimum price 55p	-34	-0.2	-0.4	-0.9	-0.2	-233	-2.2	-0.4	-4.9	-5.7	-0.6	-1.1	-4.4	-6.2	-0.0	-16.5	-1.7
Minimum price 60p	-44	-0.3	-0.5	-1.1	-0.2	-297	-2.7	-0.5	-6.2	-7.3	-0.8	-1.4	-5.6	-7.8	-0.0	-21.0	-2.0
Minimum price 65p	-53	-0.3	-0.6	-1.4	-0.3	-354	-3.2	-0.6	-7.2	-8.7	-1.0	-1.7	-6.6	-9.2	-0.1	-24.9	-2.3
Minimum price 70p	-62	-0.4	-0.7	-1.6	-0.3	-413	-3.7	-0.7	-8.3	-10.1	-1.1	-1.9	-7.6	-10.7	-0.1	-29.0	-2.6
Total off-trade discount ban	-10	-0.1	-0.1	-0.3	-0.1	-71	-0.7	-0.1	-1.5	-1.7	-0.2	-0.3	-1.1	-1.5	-0.0	-4.2	-0.5
Minimum price 25p + total off-t discount ban	-11	-0.1	-0.1	-0.3	-0.1	-77	-0.7	-0.1	-1.7	-1.9	-0.2	-0.3	-1.2	-1.7	-0.0	-4.8	-0.5
Minimum price 30p + total off-t discount ban	-12	-0.1	-0.1	-0.3	-0.1	-83	-0.8	-0.1	-1.8	-2.0	-0.2	-0.3	-1.5	-2.0	-0.0	-5.5	-0.6
Minimum price 35p + total off-t discount ban	-14	-0.1	-0.2	-0.4	-0.1	-96	-0.9	-0.2	-2.1	-2.4	-0.2	-0.4	-1.8	-2.5	-0.0	-6.6	-0.7
Minimum price 40p + total off-t discount ban	-18	-0.1	-0.2	-0.5	-0.1	-121	-1.2	-0.2	-2.6	-3.0	-0.3	-0.6	-2.3	-3.2	-0.0	-8.6	-0.9
Minimum price 45p + total off-t discount ban	-23	-0.1	-0.3	-0.6	-0.1	-159	-1.5	-0.3	-3.4	-3.9	-0.4	-0.7	-3.0	-4.2	-0.0	-11.2	-1.2
Minimum price 50p + total off-t discount ban	-30	-0.2	-0.4	-0.8	-0.2	-205	-1.9	-0.3	-4.4	-5.1	-0.6	-0.9	-3.9	-5.4	-0.0	-14.5	-1.5
Minimum price 55p + total off-t discount ban	-39	-0.2	-0.4	-1.0	-0.2	-260	-2.4	-0.4	-5.4	-6.4	-0.7	-1.2	-4.9	-6.7	-0.0	-18.3	-1.8
Minimum price 60p + total off-t discount ban	-47	-0.3	-0.6	-1.2	-0.2	-318	-2.9	-0.5	-6.5	-7.8	-0.9	-1.5	-5.9	-8.3	-0.0	-22.4	-2.1
Minimum price 65p + total off-t discount ban	-56	-0.3	-0.7	-1.4	-0.3	-371	-3.3	-0.6	-7.5	-9.1	-1.0	-1.7	-6.9	-9.6	-0.1	-26.1	-2.4
Minimum price 70p + total off-t discount ban	-64	-0.4	-0.8	-1.6	-0.3	-426	-3.8	-0.8	-8.5	-10.4	-1.2	-2.0	-7.9	-11.0	-0.1	-30.0	-2.6

Table A10.8: Summary tables for sensitivity analysis – higher 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
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	Years 1-10
Minimum price 25p	+0.4	-2	-1	-2.3	-2.2	+1.0	-2	-1.4	+2	-1	-1	-19	-19	+7	-1	-14
Minimum price 30p	+0.1	-5	-2	-4.8	-5.4	+3	-4	-5.4	-2	-4	-2	-40	-47	-9	-4	-60
Minimum price 35p	-0.5	-1.0	-5	-9.0	-11.1	-1.4	-9	-13.4	-12	-9	-4	-75	-99	-53	-8	-160
Minimum price 40p	-2.0	-2.2	-1.0	-15.3	-20.4	-5.1	-1.8	-27.4	-35	-18	-8	-127	-188	-151	-17	-357
Minimum price 45p	-4.0	-4.0	-1.8	-23.2	-33.1	-10.4	-3.4	-46.8	-70	-33	-15	-193	-311	-301	-31	-644
Minimum price 50p	-6.7	-6.5	-3.0	-32.1	-48.2	-17.2	-5.5	-71.0	-114	-54	-25	-267	-460	-492	-51	-1,003
Minimum price 55p	-9.9	-9.5	-4.4	-41.6	-65.4	-25.6	-8.1	-99.0	-167	-79	-37	-346	-629	-720	-75	-1,424
Minimum price 60p	-13.4	-12.8	-6.0	-50.0	-82.2	-34.7	-10.9	-127.8	-224	-107	-50	-416	-796	-963	-101	-1,859
Minimum price 65p	-16.9	-16.2	-7.6	-56.4	-97.1	-44.0	-13.8	-154.9	-280	-135	-63	-469	-947	-1,201	-127	-2,275
Minimum price 70p	-20.6	-19.7	-9.3	-62.6	-112.2	-53.6	-16.8	-182.6	-338	-164	-77	-521	-1,100	-1,442	-155	-2,697
Total off-trade discount ban	-3.8	-3.7	-1.8	-11.3	-20.6	-10.0	-3.2	-33.8	-62	-30	-15	-94	-202	-269	-29	-501
Minimum price 25p + total off-t discount ban	-3.9	-3.8	-1.9	-13.3	-22.9	-10.2	-3.3	-36.5	-64	-32	-16	-111	-223	-278	-31	-532
Minimum price 30p + total off-t discount ban	-4.0	-4.0	-2.0	-15.3	-25.4	-10.6	-3.5	-39.5	-67	-34	-17	-127	-244	-290	-32	-567
Minimum price 35p + total off-t discount ban	-4.4	-4.5	-2.2	-18.4	-29.6	-11.7	-3.9	-45.1	-74	-37	-19	-153	-283	-320	-36	-638
Minimum price 40p + total off-t discount ban	-5.4	-5.4	-2.7	-23.3	-36.8	-14.3	-4.6	-55.7	-91	-45	-22	-194	-352	-393	-42	-788
Minimum price 45p + total off-t discount ban	-7.1	-6.8	-3.3	-29.5	-46.8	-18.6	-5.8	-71.1	-119	-57	-28	-245	-449	-514	-53	-1,016
Minimum price 50p + total off-t discount ban	-9.3	-8.8	-4.3	-36.8	-59.2	-24.2	-7.5	-90.9	-156	-73	-36	-306	-571	-670	-69	-1,310
Minimum price 55p + total off-t discount ban	-12.0	-11.3	-5.5	-44.8	-73.7	-31.3	-9.6	-114.6	-200	-94	-46	-373	-713	-862	-89	-1,664
Minimum price 60p + total off-t discount ban	-15.1	-14.3	-6.9	-52.2	-88.4	-39.3	-12.1	-139.9	-250	-119	-57	-434	-860	-1,075	-112	-2,048
Minimum price 65p + total off-t discount ban	-18.4	-17.4	-8.3	-58.1	-102.2	-47.8	-14.8	-164.9	-302	-145	-69	-483	-999	-1,293	-137	-2,429
Minimum price 70p + total off-t discount ban	-21.9	-20.7	-9.9	-64.0	-116.5	-56.9	-17.7	-191.1	-357	-172	-83	-532	-1,144	-1,520	-163	-2,828

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	+0.3	-0	-0	+0	+3	+1.0	-0	+1.3	+3	-	-	+	+3	+12	-	+15
Minimum price 30p	+0.3	-0	-0	+0	+3	+8	-0	+1.0	+3	-	-	+	+2	+9	-	+11
Minimum price 35p	+0.0	-1	-1	+0	-1	+1	-1	-1	+	-	-1	+	-1	-4	-1	-5
Minimum price 40p	-0.4	-3	-3	+0	-1.0	-1.2	-3	-2.5	-5	-2	-2	+	-9	-28	-3	-40
Minimum price 45p	-1.0	-8	-6	+0	-2.4	-2.8	-8	-6.0	-12	-7	-5	+	-23	-62	-7	-92
Minimum price 50p	-1.9	-1.5	-1.0	+0	-4.4	-5.0	-1.5	-11.0	-21	-13	-8	+	-42	-106	-14	-163
Minimum price 55p	-2.9	-2.5	-1.6	+0	-7.1	-7.9	-2.5	-17.4	-33	-21	-13	+	-67	-162	-23	-251
Minimum price 60p	-4.1	-3.6	-2.3	+0	-10.0	-11.0	-3.5	-24.5	-46	-30	-19	+	-95	-223	-32	-350
Minimum price 65p	-5.4	-4.8	-3.0	+0	-13.2	-14.5	-4.6	-32.4	-60	-40	-25	+	-125	-288	-42	-456
Minimum price 70p	-6.7	-6.1	-3.8	+0	-16.7	-18.3	-5.8	-40.7	-75	-51	-32	+	-158	-356	-54	-567
Total off-trade discount ban	-1.3	-1.3	-9	+0	-3.4	-3.7	-1.2	-8.3	-15	-11	-7	+	-32	-69	-11	-113
Minimum price 25p + total off-t discount ban	-1.3	-1.3	-9	+0	-3.4	-3.6	-1.2	-8.3	-14	-11	-7	+	-32	-70	-11	-113
Minimum price 30p + total off-t discount ban	-1.3	-1.3	-9	+0	-3.5	-3.7	-1.2	-8.4	-14	-11	-7	+	-32	-71	-11	-115
Minimum price 35p + total off-t discount ban	-1.4	-1.3	-9	+0	-3.7	-3.9	-1.3	-8.8	-15	-11	-8	+	-34	-76	-12	-122
Minimum price 40p + total off-t discount ban	-1.7	-1.5	-1.1	+0	-4.3	-4.7	-1.4	-10.4	-19	-12	-9	+	-40	-93	-13	-146
Minimum price 45p + total off-t discount ban	-2.2	-1.8	-1.3	+0	-5.4	-6.0	-1.8	-13.2	-24	-15	-11	+	-51	-120	-16	-187
Minimum price 50p + total off-t discount ban	-2.9	-2.4	-1.7	+0	-7.0	-7.8	-2.3	-17.1	-32	-20	-14	+	-66	-157	-22	-244
Minimum price 55p + total off-t discount ban	-3.7	-3.2	-2.2	+0	-9.1	-10.2	-3.1	-22.4	-42	-27	-18	+	-86	-203	-29	-318
Minimum price 60p + total off-t discount ban	-4.8	-4.2	-2.7	+0	-11.7	-12.9	-4.0	-28.6	-53	-35	-23	+	-110	-256	-37	-403
Minimum price 65p + total off-t discount ban	-5.9	-5.2	-3.4	+0	-14.6	-16.1	-5.0	-35.7	-66	-44	-28	+	-138	-315	-46	-500
Minimum price 70p + total off-t discount ban	-7.2	-6.4	-4.2	+0	-17.8	-19.6	-6.2	-43.6	-81	-54	-35	+	-169	-379	-57	-605

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HAZARDOUS	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	+0.1	-0	-0	+0	+1	+3	-0	+4	+1	-	-	+	+1	+4	-	+5
Minimum price 30p	+0.1	-1	-0	+0	-1	+2	-1	+0	+	-1	-	+	-1	+1	-1	-
Minimum price 35p	-0.1	-2	-1	+0	-4	-2	-2	-7	-2	-2	-1	+	-4	-8	-2	-15
Minimum price 40p	-0.5	-5	-2	+0	-1.3	-1.3	-5	-3.0	-9	-4	-2	+	-15	-42	-4	-62
Minimum price 45p	-1.3	-1.0	-5	+0	-2.7	-3.2	-9	-6.8	-23	-9	-4	+	-35	-99	-8	-143
Minimum price 50p	-2.3	-1.7	-8	+0	-4.8	-5.6	-1.5	-11.9	-40	-14	-7	+	-61	-175	-14	-251
Minimum price 55p	-3.5	-2.6	-1.2	+0	-7.3	-8.7	-2.3	-18.3	-63	-21	-10	+	-94	-270	-21	-386
Minimum price 60p	-4.9	-3.5	-1.7	+0	-10.1	-12.2	-3.1	-25.4	-87	-29	-14	+	-131	-373	-29	-533
Minimum price 65p	-6.3	-4.6	-2.2	+0	-13.1	-15.7	-4.1	-32.9	-112	-38	-19	+	-169	-476	-38	-683
Minimum price 70p	-7.7	-5.6	-2.8	+0	-16.0	-19.3	-4.9	-40.2	-137	-46	-23	+	-207	-579	-45	-831
Total off-trade discount ban	-1.4	-1.1	-6	+0	-3.2	-3.7	-1.0	-7.9	-26	-9	-5	+	-40	-113	-10	-163
Minimum price 25p + total off-t discount ban	-1.5	-1.2	-6	+0	-3.2	-3.7	-1.1	-8.0	-26	-10	-5	+	-41	-114	-10	-164
Minimum price 30p + total off-t discount ban	-1.5	-1.2	-6	+0	-3.3	-3.8	-1.1	-8.2	-26	-10	-5	+	-42	-116	-10	-168
Minimum price 35p + total off-t discount ban	-1.6	-1.3	-6	+0	-3.6	-4.0	-1.2	-8.8	-28	-11	-5	+	-45	-123	-11	-179
Minimum price 40p + total off-t discount ban	-1.9	-1.6	-8	+0	-4.2	-4.9	-1.4	-10.5	-34	-13	-6	+	-53	-149	-13	-215
Minimum price 45p + total off-t discount ban	-2.5	-1.9	-1.0	+0	-5.4	-6.4	-1.7	-13.5	-45	-16	-8	+	-69	-196	-16	-281
Minimum price 50p + total off-t discount ban	-3.3	-2.5	-1.2	+0	-7.0	-8.4	-2.2	-17.6	-60	-21	-10	+	-91	-259	-20	-370
Minimum price 55p + total off-t discount ban	-4.4	-3.2	-1.6	+0	-9.2	-11.0	-2.8	-23.0	-78	-26	-13	+	-118	-337	-26	-481
Minimum price 60p + total off-t discount ban	-5.6	-4.0	-2.0	+0	-11.6	-14.0	-3.6	-29.3	-100	-33	-17	+	-150	-426	-33	-610
Minimum price 65p + total off-t discount ban	-6.9	-5.0	-2.5	+0	-14.4	-17.3	-4.4	-36.1	-123	-42	-21	+	-185	-520	-41	-746
Minimum price 70p + total off-t discount ban	-8.2	-5.9	-3.0	+0	-17.1	-20.7	-5.3	-43.0	-147	-49	-25	+	-221	-616	-48	-885

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	-0.1	-1	-1	-2.3	-2.6	-3	-1	-3.0	-2	-1	-1	-19	-23	-9	-1	-33
Minimum price 30p	-0.2	-4	-2	-4.8	-5.6	-6	-3	-6.5	-5	-3	-1	-40	-49	-19	-3	-71
Minimum price 35p	-0.5	-7	-3	-9.0	-10.6	-1.3	-6	-12.5	-10	-6	-3	-75	-94	-41	-5	-140
Minimum price 40p	-1.0	-1.3	-5	-15.3	-18.2	-2.6	-1.1	-21.8	-21	-11	-4	-127	-163	-81	-10	-254
Minimum price 45p	-1.7	-2.1	-8	-23.2	-27.8	-4.4	-1.6	-33.8	-35	-17	-7	-193	-252	-140	-15	-407
Minimum price 50p	-2.5	-3.0	-1.2	-32.1	-38.8	-6.5	-2.3	-47.6	-52	-25	-10	-267	-354	-209	-21	-585
Minimum price 55p	-3.4	-4.0	-1.6	-41.6	-50.5	-8.8	-3.1	-62.4	-72	-33	-13	-346	-463	-287	-28	-778
Minimum price 60p	-4.4	-5.0	-2.0	-50.0	-61.3	-11.3	-3.9	-76.5	-91	-42	-16	-416	-565	-365	-36	-965
Minimum price 65p	-5.2	-6.0	-2.3	-56.4	-69.9	-13.5	-4.6	-87.9	-107	-50	-19	-469	-645	-434	-42	-1,121
Minimum price 70p	-6.1	-7.0	-2.7	-62.6	-78.3	-15.7	-5.3	-99.4	-124	-58	-22	-521	-726	-504	-49	-1,279
Total off-trade discount ban	-1.0	-1.0	-4	-11.3	-13.7	-2.5	-7	-16.9	-22	-8	-3	-94	-127	-86	-6	-220
Minimum price 25p + total off-t discount ban	-1.1	-1.1	-5	-13.3	-15.9	-2.8	-8	-19.5	-24	-9	-4	-111	-147	-94	-7	-249
Minimum price 30p + total off-t discount ban	-1.2	-1.2	-5	-15.3	-18.2	-3.1	-9	-22.2	-26	-10	-4	-127	-167	-102	-9	-278
Minimum price 35p + total off-t discount ban	-1.4	-1.5	-6	-18.4	-22.0	-3.6	-1.2	-26.8	-30	-13	-5	-153	-201	-119	-11	-331
Minimum price 40p + total off-t discount ban	-1.8	-2.0	-8	-23.3	-27.9	-4.6	-1.6	-34.1	-38	-17	-7	-194	-255	-151	-14	-420
Minimum price 45p + total off-t discount ban	-2.3	-2.7	-1.1	-29.5	-35.6	-6.0	-2.0	-43.6	-49	-22	-9	-245	-326	-197	-19	-541
Minimum price 50p + total off-t discount ban	-3.0	-3.4	-1.4	-36.8	-44.7	-7.8	-2.6	-55.1	-63	-29	-11	-306	-410	-254	-24	-687
Minimum price 55p + total off-t discount ban	-3.8	-4.3	-1.7	-44.8	-54.7	-9.9	-3.3	-67.9	-80	-36	-14	-373	-503	-320	-31	-854
Minimum price 60p + total off-t discount ban	-4.7	-5.3	-2.1	-52.2	-64.3	-12.1	-4.0	-80.4	-97	-44	-17	-434	-592	-390	-37	-1,020
Minimum price 65p + total off-t discount ban	-5.5	-6.2	-2.4	-58.1	-72.1	-14.1	-4.7	-90.9	-112	-52	-20	-483	-667	-454	-43	-1,164
Minimum price 70p + total off-t discount ban	-6.3	-7.2	-2.8	-64.0	-80.2	-16.3	-5.4	-101.9	-128	-60	-23	-532	-743	-521	-50	-1,315

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 if no change in consump.
Policy Scenario														
Minimum price 25p	-0.1%	-1.9	+0.7	+0.1	+0.0	-1.1	+3.8	+1.9	-0.1	+0.7	+6.3	+0.3%	+1.70	+1.17
Minimum price 30p	-0.4%	-3.9	+1.2	+0.2	+0.0	-2.5	+7.9	+4.2	-0.6	+1.4	+13.0	+0.6%	+3.53	+2.69
Minimum price 35p	-0.8%	-6.9	+1.5	-0.7	+0.0	-6.0	+15.4	+8.0	-2.0	+2.7	+24.0	+1.2%	+6.52	+5.98
Minimum price 40p	-1.9%	-10.2	+0.8	-4.0	+0.0	-13.4	+29.2	+13.7	-5.7	+4.7	+41.8	+2.0%	+11.36	+12.89
Minimum price 45p	-3.5%	-14.1	-2.5	-8.9	+0.1	-25.3	+48.0	+21.1	-12.1	+7.3	+64.3	+3.1%	+17.46	+23.95
Minimum price 50p	-5.7%	-18.6	-7.7	-14.7	+0.1	-40.8	+68.3	+29.3	-20.6	+10.1	+87.2	+4.2%	+23.67	+38.21
Minimum price 55p	-8.3%	-23.6	-15.0	-21.2	+0.1	-59.7	+88.2	+38.3	-31.6	+13.2	+108.1	+5.2%	+29.36	+55.37
Minimum price 60p	-11.1%	-28.7	-23.5	-28.2	+0.1	-80.2	+104.6	+47.7	-44.5	+16.5	+124.3	+6.0%	+33.74	+74.20
Minimum price 65p	-14.0%	-32.2	-32.9	-35.6	+0.2	-100.5	+118.3	+57.6	-58.0	+19.8	+137.7	+6.6%	+37.40	+94.41
Minimum price 70p	-16.9%	-35.5	-43.0	-43.2	+0.1	-121.6	+126.5	+68.5	-72.9	+23.3	+145.4	+7.0%	+39.49	+115.74
Total off-trade discount ban	-3.0%	-5.5	-12.9	-3.3	-0.1	-21.9	+41.9	+8.1	-8.3	+2.8	+44.5	+2.1%	+12.08	+22.01
Minimum price 25p + total off-t discount ban	-3.2%	-7.1	-12.4	-3.2	-0.1	-22.9	+44.9	+9.8	-8.6	+3.4	+49.5	+2.4%	+13.45	+23.03
Minimum price 30p + total off-t discount ban	-3.4%	-8.7	-12.1	-3.2	-0.1	-24.2	+47.9	+11.6	-9.0	+4.0	+54.5	+2.6%	+14.79	+24.25
Minimum price 35p + total off-t discount ban	-3.7%	-11.0	-12.0	-4.0	-0.1	-27.0	+53.4	+14.6	-10.3	+5.0	+62.7	+3.0%	+17.02	+26.83
Minimum price 40p + total off-t discount ban	-4.6%	-13.4	-12.7	-7.0	-0.1	-33.2	+63.8	+19.5	-13.7	+6.8	+76.4	+3.7%	+20.75	+32.43
Minimum price 45p + total off-t discount ban	-6.0%	-16.2	-15.3	-11.4	-0.1	-43.0	+77.3	+26.0	-19.4	+9.0	+92.8	+4.4%	+25.20	+41.28
Minimum price 50p + total off-t discount ban	-7.8%	-19.9	-19.3	-16.6	-0.1	-55.8	+91.3	+33.2	-27.2	+11.5	+108.9	+5.2%	+29.56	+52.83
Minimum price 55p + total off-t discount ban	-10.0%	-24.3	-25.1	-22.4	-0.0	-71.9	+104.9	+41.4	-37.3	+14.3	+123.3	+5.9%	+33.48	+67.28
Minimum price 60p + total off-t discount ban	-12.5%	-29.0	-32.1	-29.0	-0.0	-90.0	+116.1	+50.2	-49.4	+17.4	+134.2	+6.4%	+36.44	+83.81
Minimum price 65p + total off-t discount ban	-15.1%	-32.2	-40.5	-36.2	-0.0	-108.9	+126.0	+59.7	-62.5	+20.6	+143.8	+6.9%	+39.03	+102.47
Minimum price 70p + total off-t discount ban	-17.9%	-35.4	-49.8	-43.7	-0.0	-128.9	+131.2	+70.3	-77.1	+23.9	+148.4	+7.1%	+40.28	+122.70

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.
Minimum price 25p	+0.0%	-0.2	+0.1	+0.1	+0.0	+0.0	+0.5	+0.5	+0.0	+0.2	+1.3	+0.2%	+0.50	+0.21
Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.0	+1.1	+1.0	+0.0	+0.3	+2.5	+0.3%	+0.96	+0.49
Minimum price 35p	-0.2%	-0.4	-0.1	+0.0	+0.0	-0.5	+2.4	+1.8	-0.1	+0.6	+4.7	+0.6%	+1.80	+1.21
Minimum price 40p	-0.7%	-0.6	-0.6	-0.8	+0.0	-2.0	+5.3	+2.8	-0.5	+0.9	+8.6	+1.1%	+3.31	+3.03
Minimum price 45p	-1.5%	-0.8	-1.9	-2.1	+0.0	-4.8	+9.9	+4.2	-1.3	+1.4	+14.2	+1.9%	+5.51	+6.27
Minimum price 50p	-2.8%	-1.3	-3.8	-3.5	+0.0	-8.6	+15.8	+5.8	-2.5	+2.0	+21.1	+2.8%	+8.19	+10.78
Minimum price 55p	-4.3%	-1.8	-6.4	-5.3	+0.0	-13.4	+22.5	+7.7	-3.9	+2.6	+28.8	+3.8%	+11.17	+16.56
Minimum price 60p	-6.1%	-2.4	-9.3	-7.2	+0.0	-18.9	+29.2	+9.6	-5.8	+3.2	+36.3	+4.7%	+14.06	+23.11
Minimum price 65p	-8.0%	-3.1	-12.5	-9.4	+0.0	-24.9	+35.4	+11.7	-8.0	+3.9	+43.0	+5.6%	+16.65	+30.28
Minimum price 70p	-10.0%	-3.8	-15.9	-11.6	+0.1	-31.3	+40.5	+14.0	-10.5	+4.6	+48.6	+6.3%	+18.82	+37.94
Total off-trade discount ban	-2.0%	-0.7	-4.6	-1.0	-0.0	-6.4	+12.0	+1.8	-1.1	+0.6	+13.2	+1.7%	+5.13	+8.31
Minimum price 25p + total off-t discount ban	-2.0%	-0.9	-4.5	-1.0	-0.0	-6.3	+12.5	+2.2	-1.1	+0.7	+14.3	+1.9%	+5.55	+8.49
Minimum price 30p + total off-t discount ban	-2.1%	-1.0	-4.5	-0.9	-0.0	-6.4	+12.9	+2.6	-1.1	+0.9	+15.3	+2.0%	+5.93	+8.73
Minimum price 35p + total off-t discount ban	-2.2%	-1.1	-4.7	-1.0	-0.0	-6.8	+13.9	+3.2	-1.2	+1.1	+17.0	+2.2%	+6.58	+9.30
Minimum price 40p + total off-t discount ban	-2.6%	-1.1	-5.2	-1.8	-0.0	-8.1	+16.2	+4.2	-1.7	+1.4	+20.1	+2.6%	+7.79	+10.81
Minimum price 45p + total off-t discount ban	-3.3%	-1.3	-6.2	-2.9	-0.0	-10.4	+19.6	+5.4	-2.4	+1.8	+24.4	+3.2%	+9.45	+13.39
Minimum price 50p + total off-t discount ban	-4.3%	-1.6	-7.6	-4.2	-0.0	-13.4	+23.8	+6.8	-3.4	+2.3	+29.5	+3.8%	+11.41	+16.96
Minimum price 55p + total off-t discount ban	-5.6%	-2.0	-9.7	-5.7	-0.0	-17.4	+28.8	+8.4	-4.8	+2.8	+35.2	+4.6%	+13.63	+21.69
Minimum price 60p + total off-t discount ban	-7.1%	-2.5	-12.1	-7.5	+0.0	-22.1	+33.9	+10.2	-6.5	+3.4	+41.0	+5.3%	+15.87	+27.30
Minimum price 65p + total off-t discount ban	-8.9%	-3.1	-14.9	-9.6	+0.0	-27.6	+38.8	+12.2	-8.7	+4.0	+46.4	+6.0%	+17.97	+33.82
Minimum price 70p + total off-t discount ban	-10.8%	-3.8	-18.0	-11.8	+0.0	-33.6	+43.0	+14.5	-11.2	+4.7	+51.0	+6.6%	+19.77	+41.00

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.
Minimum price 25p	-0.0%	-2.3	+1.8	+0.2	+0.0	-0.2	+1.6	+1.0	+0.2	+0.3	+3.1	+0.4%	+3.89	+2.03
Minimum price 30p	-0.1%	-4.8	+3.4	+0.3	+0.0	-1.0	+3.5	+2.2	+0.2	+0.7	+6.6	+0.8%	+8.35	+4.76
Minimum price 35p	-0.3%	-8.3	+4.9	-1.4	+0.0	-4.8	+6.8	+4.1	-0.0	+1.4	+12.3	+1.5%	+15.44	+10.68
Minimum price 40p	-1.2%	-12.0	+3.7	-8.1	+0.1	-16.3	+12.9	+7.1	-1.3	+2.4	+21.1	+2.6%	+26.54	+23.74
Minimum price 45p	-2.7%	-16.2	-3.9	-18.1	+0.1	-38.1	+21.3	+10.8	-3.8	+3.7	+32.0	+3.9%	+40.33	+45.77
Minimum price 50p	-4.8%	-21.2	-16.4	-30.5	+0.1	-67.9	+30.6	+14.9	-7.5	+5.1	+43.1	+5.3%	+54.31	+74.48
Minimum price 55p	-7.5%	-26.9	-34.6	-44.2	+0.1	-105.6	+39.6	+19.4	-12.4	+6.7	+53.3	+6.5%	+67.14	+109.43
Minimum price 60p	-10.5%	-33.1	-55.4	-59.0	+0.1	-147.4	+46.8	+24.1	-18.3	+8.3	+61.0	+7.5%	+76.78	+147.68
Minimum price 65p	-13.6%	-37.3	-79.0	-74.8	+0.1	-191.0	+52.3	+29.1	-24.8	+10.0	+66.6	+8.2%	+83.87	+189.00
Minimum price 70p	-16.7%	-40.0	-104.1	-91.1	+0.1	-235.1	+55.5	+34.4	-31.7	+11.7	+69.8	+8.6%	+87.94	+232.42
Total off-trade discount ban	-3.3%	-7.3	-31.5	-7.5	-0.1	-46.5	+17.8	+4.0	-4.2	+1.4	+18.9	+2.3%	+23.82	+45.20
Minimum price 25p + total off-t discount ban	-3.3%	-9.4	-30.1	-7.3	-0.1	-46.9	+19.1	+4.8	-4.1	+1.7	+21.5	+2.6%	+27.05	+47.02
Minimum price 30p + total off-t discount ban	-3.4%	-11.3	-29.1	-7.3	-0.1	-47.9	+20.5	+5.8	-4.1	+2.0	+24.1	+3.0%	+30.40	+49.24
Minimum price 35p + total off-t discount ban	-3.6%	-13.8	-28.3	-8.9	-0.1	-51.2	+23.1	+7.3	-4.4	+2.5	+28.5	+3.5%	+35.90	+53.97
Minimum price 40p + total off-t discount ban	-4.3%	-16.2	-29.7	-15.0	-0.1	-61.0	+27.8	+9.9	-5.6	+3.4	+35.5	+4.4%	+44.73	+64.67
Minimum price 45p + total off-t discount ban	-5.6%	-19.0	-35.7	-24.0	-0.1	-78.7	+33.9	+13.1	-7.9	+4.5	+43.7	+5.4%	+55.09	+82.30
Minimum price 50p + total off-t discount ban	-7.3%	-22.8	-45.2	-34.9	-0.0	-103.0	+40.3	+16.8	-11.2	+5.8	+51.8	+6.3%	+65.17	+105.46
Minimum price 55p + total off-t discount ban	-9.6%	-27.8	-59.6	-47.2	-0.0	-134.6	+46.4	+20.9	-15.6	+7.2	+58.9	+7.2%	+74.21	+134.69
Minimum price 60p + total off-t discount ban	-12.2%	-33.4	-76.8	-61.1	-0.0	-171.3	+51.2	+25.3	-21.1	+8.8	+64.2	+7.9%	+80.82	+168.10
Minimum price 65p + total off-t discount ban	-15.0%	-37.2	-97.7	-76.4	-0.0	-211.3	+54.9	+30.0	-27.4	+10.4	+68.0	+8.3%	+85.58	+206.11
Minimum price 70p + total off-t discount ban	-18.0%	-39.7	-120.8	-92.4	-0.0	-253.0	+56.7	+35.2	-34.2	+12.0	+69.7	+8.6%	+87.80	+247.20

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)	
	% 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.
Minimum price 25p	-0.6%	-25.3	+4.0	+0.1	+0.0	-21.1	+1.6	+0.4	-0.4	+0.2	+1.9	+0.4%	+10.35	+11.83
Minimum price 30p	-1.2%	-54.5	+7.9	+0.1	+0.1	-46.5	+3.3	+1.0	-0.9	+0.4	+3.8	+0.8%	+21.18	+26.68
Minimum price 35p	-2.5%	-97.4	+11.2	-7.2	+0.2	-93.2	+6.1	+2.1	-1.9	+0.7	+7.0	+1.5%	+38.69	+57.30
Minimum price 40p	-4.5%	-146.5	+8.6	-33.7	+0.4	-171.2	+10.9	+3.8	-3.9	+1.3	+12.1	+2.7%	+66.43	+114.02
Minimum price 45p	-7.3%	-202.3	-5.8	-70.8	+0.6	-278.3	+16.5	+6.0	-6.9	+2.1	+17.7	+3.9%	+97.76	+195.11
Minimum price 50p	-10.7%	-265.6	-28.8	-113.6	+0.8	-407.3	+21.7	+8.4	-10.6	+3.0	+22.4	+4.9%	+123.42	+292.89
Minimum price 55p	-14.6%	-335.0	-60.8	-159.8	+1.0	-554.6	+25.5	+10.9	-15.2	+3.9	+25.2	+5.5%	+138.71	+403.93
Minimum price 60p	-18.6%	-401.7	-98.4	-208.6	+1.3	-707.4	+27.8	+13.6	-20.3	+4.8	+25.9	+5.7%	+142.74	+522.69
Minimum price 65p	-22.2%	-444.7	-140.9	-258.6	+1.6	-842.6	+29.6	+16.5	-25.1	+5.8	+26.8	+5.9%	+147.74	+647.32
Minimum price 70p	-25.9%	-488.6	-186.7	-309.5	+1.1	-983.7	+29.4	+19.6	-30.4	+6.8	+25.4	+5.6%	+140.04	+778.01
Total off-trade discount ban	-3.9%	-68.9	-57.5	-19.4	-1.5	-147.3	+11.7	+2.2	-2.9	+0.8	+11.8	+2.6%	+65.06	+126.30
Minimum price 25p + total off-t discount ban	-4.4%	-90.8	-54.3	-19.4	-1.5	-166.1	+12.9	+2.6	-3.3	+0.9	+13.2	+2.9%	+72.59	+136.52
Minimum price 30p + total off-t discount ban	-4.9%	-113.8	-51.8	-19.6	-1.4	-186.6	+14.0	+3.1	-3.7	+1.1	+14.5	+3.2%	+79.74	+148.18
Minimum price 35p + total off-t discount ban	-5.9%	-146.3	-49.8	-26.3	-1.3	-223.8	+16.0	+3.9	-4.7	+1.4	+16.6	+3.7%	+91.62	+171.53
Minimum price 40p + total off-t discount ban	-7.6%	-183.7	-52.6	-50.6	-1.2	-288.2	+19.3	+5.4	-6.4	+1.9	+20.1	+4.4%	+111.02	+216.69
Minimum price 45p + total off-t discount ban	-9.9%	-227.4	-64.2	-84.0	-1.0	-376.7	+23.1	+7.3	-9.1	+2.6	+23.9	+5.3%	+131.77	+281.69
Minimum price 50p + total off-t discount ban	-12.8%	-280.5	-82.0	-123.0	-0.8	-486.3	+26.5	+9.4	-12.5	+3.4	+26.8	+5.9%	+147.54	+362.74
Minimum price 55p + total off-t discount ban	-16.2%	-342.9	-107.6	-165.5	-0.6	-616.7	+28.9	+11.8	-16.8	+4.2	+28.1	+6.2%	+154.71	+459.13
Minimum price 60p + total off-t discount ban	-19.9%	-405.0	-138.8	-211.8	-0.4	-756.0	+30.0	+14.3	-21.6	+5.1	+27.7	+6.1%	+152.86	+566.26
Minimum price 65p + total off-t discount ban	-23.2%	-445.5	-176.6	-260.9	-0.1	-883.0	+31.1	+17.0	-26.2	+6.0	+27.9	+6.1%	+153.56	+683.48
Minimum price 70p + total off-t discount ban	-26.8%	-488.0	-218.8	-311.4	-0.5	-1018.6	+30.2	+20.1	-31.4	+7.0	+25.8	+5.7%	+142.36	+809.01

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.	
	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																	
Minimum price 25p	+2	-0.0	+0.1	+0.1	+0.0	-4	-0.1	+0.1	-0.1	+0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.7	-0.1
Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-13	-0.2	+0.1	-0.3	-0.2	-0.0	-0.0	-0.1	-0.1	-0.0	-1.9	-0.2
Minimum price 35p	-5	-0.0	-0.1	-0.1	-0.0	-38	-0.4	-0.0	-0.8	-1.1	-0.0	-0.1	-0.1	-0.3	-0.0	-4.5	-0.3
Minimum price 40p	-17	-0.1	-0.3	-0.5	-0.1	-99	-0.9	-0.3	-2.1	-3.0	-0.1	-0.2	-0.3	-0.6	-0.0	-10.2	-0.6
Minimum price 45p	-36	-0.2	-0.5	-1.0	-0.2	-196	-1.7	-0.6	-4.1	-6.0	-0.1	-0.4	-0.5	-1.0	-0.0	-19.6	-0.9
Minimum price 50p	-60	-0.3	-0.9	-1.6	-0.3	-318	-2.7	-1.0	-6.5	-9.8	-0.2	-0.6	-0.9	-1.7	-0.0	-32.3	-1.3
Minimum price 55p	-89	-0.4	-1.4	-2.3	-0.5	-464	-3.9	-1.5	-9.3	-14.4	-0.3	-0.9	-1.3	-2.5	-0.0	-48.2	-1.7
Minimum price 60p	-120	-0.5	-1.9	-3.1	-0.7	-615	-5.2	-2.0	-12.3	-19.3	-0.4	-1.3	-1.7	-3.4	-0.0	-65.9	-2.0
Minimum price 65p	-151	-0.6	-2.4	-3.9	-0.9	-759	-6.3	-2.6	-15.2	-24.0	-0.5	-1.6	-2.2	-4.3	-0.0	-84.0	-2.3
Minimum price 70p	-182	-0.7	-3.0	-4.8	-1.1	-902	-7.5	-3.2	-18.1	-28.8	-0.6	-2.0	-2.7	-5.2	-0.0	-102.8	-2.6
Total off-trade discount ban	-33	-0.1	-0.5	-0.9	-0.2	-169	-1.4	-0.6	-3.4	-5.4	-0.1	-0.4	-0.5	-1.0	-0.0	-20.2	-0.5
Minimum price 25p + total off-t discount ban	-34	-0.1	-0.6	-0.9	-0.2	-175	-1.5	-0.6	-3.5	-5.6	-0.1	-0.4	-0.5	-1.0	-0.0	-20.9	-0.5
Minimum price 30p + total off-t discount ban	-35	-0.1	-0.6	-0.9	-0.2	-183	-1.6	-0.6	-3.7	-5.8	-0.1	-0.4	-0.5	-1.0	-0.0	-21.9	-0.6
Minimum price 35p + total off-t discount ban	-39	-0.2	-0.6	-1.0	-0.2	-202	-1.7	-0.7	-4.1	-6.4	-0.1	-0.4	-0.6	-1.2	-0.0	-24.1	-0.7
Minimum price 40p + total off-t discount ban	-48	-0.2	-0.8	-1.3	-0.3	-249	-2.1	-0.8	-5.1	-7.9	-0.2	-0.5	-0.7	-1.4	-0.0	-28.8	-0.9
Minimum price 45p + total off-t discount ban	-63	-0.3	-1.0	-1.7	-0.4	-327	-2.8	-1.1	-6.6	-10.3	-0.2	-0.7	-0.9	-1.8	-0.0	-36.5	-1.2
Minimum price 50p + total off-t discount ban	-83	-0.3	-1.3	-2.2	-0.5	-427	-3.6	-1.4	-8.6	-13.4	-0.3	-0.9	-1.2	-2.3	-0.0	-46.8	-1.5
Minimum price 55p + total off-t discount ban	-107	-0.4	-1.7	-2.8	-0.6	-548	-4.6	-1.8	-11.0	-17.2	-0.3	-1.1	-1.5	-3.0	-0.0	-60.2	-1.8
Minimum price 60p + total off-t discount ban	-134	-0.5	-2.2	-3.5	-0.8	-681	-5.7	-2.3	-13.6	-21.5	-0.4	-1.4	-1.9	-3.8	-0.0	-75.6	-2.1
Minimum price 65p + total off-t discount ban	-162	-0.6	-2.6	-4.2	-1.0	-811	-6.8	-2.9	-16.2	-25.9	-0.5	-1.7	-2.4	-4.6	-0.0	-92.2	-2.4
Minimum price 70p + total off-t discount ban	-192	-0.7	-3.2	-5.0	-1.1	-946	-7.9	-3.4	-19.0	-30.4	-0.6	-2.1	-2.8	-5.5	-0.0	-109.9	-2.6

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																	
Minimum price 25p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	+0.0
Minimum price 30p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.3	+0.0
Minimum price 35p	+0	-0.0	+0.0	+0.0	+0.0	+0	-0.0	+0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.9	+0.0
Minimum price 40p	-3	-0.0	-0.1	-0.1	-0.0	-3	-0.0	-0.1	-0.2	-0.6	-0.0	-0.0	-0.0	-0.1	-0.0	-2.7	+0.0
Minimum price 45p	-7	-0.0	-0.2	-0.2	-0.1	-8	-0.1	-0.2	-0.4	-1.2	-0.0	-0.1	-0.1	-0.2	-0.0	-6.0	+0.0
Minimum price 50p	-12	-0.0	-0.3	-0.4	-0.1	-15	-0.2	-0.3	-0.7	-2.1	-0.1	-0.2	-0.2	-0.4	-0.0	-11.0	+0.0
Minimum price 55p	-19	-0.0	-0.5	-0.6	-0.2	-23	-0.3	-0.5	-1.1	-3.2	-0.1	-0.3	-0.4	-0.7	-0.0	-17.5	+0.0
Minimum price 60p	-26	-0.0	-0.7	-0.9	-0.2	-32	-0.4	-0.7	-1.6	-4.5	-0.1	-0.4	-0.5	-1.1	-0.0	-25.1	+0.0
Minimum price 65p	-34	-0.1	-0.9	-1.1	-0.3	-42	-0.6	-0.9	-2.0	-5.8	-0.2	-0.5	-0.7	-1.4	-0.0	-33.4	+0.0
Minimum price 70p	-43	-0.1	-1.1	-1.4	-0.4	-53	-0.7	-1.2	-2.6	-7.1	-0.2	-0.7	-0.9	-1.8	-0.0	-42.2	+0.0
Total off-trade discount ban	-8	-0.0	-0.2	-0.3	-0.1	-10	-0.1	-0.2	-0.5	-1.4	-0.0	-0.1	-0.2	-0.4	-0.0	-9.5	+0.0
Minimum price 25p + total off-t discount ban	-8	-0.0	-0.2	-0.3	-0.1	-10	-0.1	-0.2	-0.5	-1.4	-0.0	-0.1	-0.2	-0.4	-0.0	-9.5	+0.0
Minimum price 30p + total off-t discount ban	-8	-0.0	-0.2	-0.3	-0.1	-10	-0.1	-0.2	-0.5	-1.4	-0.0	-0.1	-0.2	-0.4	-0.0	-9.7	+0.0
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	-0.2	-0.4	-0.0	-10.3	+0.0
Minimum price 40p + total off-t discount ban	-11	-0.0	-0.3	-0.4	-0.1	-13	-0.2	-0.3	-0.6	-1.9	-0.1	-0.2	-0.2	-0.4	-0.0	-11.7	+0.0
Minimum price 45p + total off-t discount ban	-14	-0.0	-0.4	-0.5	-0.1	-17	-0.2	-0.4	-0.8	-2.4	-0.1	-0.2	-0.3	-0.5	-0.0	-14.4	+0.0
Minimum price 50p + total off-t discount ban	-18	-0.0	-0.5	-0.6	-0.2	-23	-0.3	-0.5	-1.1	-3.1	-0.1	-0.3	-0.3	-0.7	-0.0	-18.3	+0.0
Minimum price 55p + total off-t discount ban	-24	-0.0	-0.6	-0.8	-0.2	-29	-0.4	-0.6	-1.4	-4.1	-0.1	-0.4	-0.5	-0.9	-0.0	-23.6	+0.0
Minimum price 60p + total off-t discount ban	-30	-0.0	-0.8	-1.0	-0.3	-37	-0.5	-0.8	-1.8	-5.1	-0.2	-0.5	-0.6	-1.2	-0.0	-30.0	+0.0
Minimum price 65p + total off-t discount ban	-38	-0.1	-1.0	-1.3	-0.3	-46	-0.6	-1.0	-2.3	-6.3	-0.2	-0.6	-0.8	-1.5	-0.0	-37.5	+0.0
Minimum price 70p + total off-t discount ban	-46	-0.1	-1.2	-1.5	-0.4	-56	-0.7	-1.3	-2.7	-7.6	-0.2	-0.7	-0.9	-1.9	-0.0	-45.8	+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.	
	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																	
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	-0.0	+0.0
Minimum price 30p	+0	-0.0	+0.0	+0.0	+0.0	-1	-0.0	+0.0	+0.0	+0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	+0.0
Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-7	-0.0	-0.0	-0.1	-0.2	-0.0	-0.0	-0.0	-0.1	-0.0	-0.7	+0.0
Minimum price 40p	-5	-0.0	-0.1	-0.1	-0.0	-32	-0.2	-0.1	-0.5	-0.8	-0.0	-0.1	-0.1	-0.1	-0.0	-2.2	+0.0
Minimum price 45p	-13	-0.0	-0.2	-0.3	-0.1	-76	-0.5	-0.2	-1.2	-2.0	-0.0	-0.1	-0.1	-0.3	-0.0	-5.1	+0.0
Minimum price 50p	-23	-0.1	-0.3	-0.5	-0.1	-135	-0.9	-0.4	-2.1	-3.5	-0.1	-0.2	-0.2	-0.5	-0.0	-8.9	+0.0
Minimum price 55p	-36	-0.1	-0.5	-0.8	-0.2	-208	-1.4	-0.6	-3.3	-5.4	-0.1	-0.3	-0.4	-0.7	-0.0	-13.9	+0.0
Minimum price 60p	-49	-0.2	-0.7	-1.1	-0.2	-285	-2.0	-0.8	-4.6	-7.5	-0.1	-0.4	-0.5	-1.0	-0.0	-19.3	+0.0
Minimum price 65p	-63	-0.2	-0.9	-1.4	-0.3	-362	-2.6	-1.1	-5.9	-9.5	-0.2	-0.5	-0.6	-1.2	-0.0	-25.1	+0.0
Minimum price 70p	-77	-0.3	-1.1	-1.7	-0.4	-436	-3.1	-1.3	-7.2	-11.6	-0.2	-0.6	-0.8	-1.5	-0.0	-30.9	+0.0
Total off-trade discount ban	-15	-0.1	-0.2	-0.3	-0.1	-88	-0.6	-0.2	-1.4	-2.3	-0.0	-0.1	-0.2	-0.3	-0.0	-6.3	+0.0
Minimum price 25p + total off-t discount ban	-15	-0.1	-0.2	-0.3	-0.1	-88	-0.6	-0.2	-1.4	-2.3	-0.0	-0.1	-0.2	-0.3	-0.0	-6.4	+0.0
Minimum price 30p + total off-t discount ban	-15	-0.1	-0.2	-0.3	-0.1	-90	-0.6	-0.2	-1.4	-2.3	-0.0	-0.1	-0.2	-0.3	-0.0	-6.5	+0.0
Minimum price 35p + total off-t discount ban	-16	-0.1	-0.2	-0.4	-0.1	-95	-0.7	-0.3	-1.5	-2.5	-0.0	-0.1	-0.2	-0.4	-0.0	-7.0	+0.0
Minimum price 40p + total off-t discount ban	-19	-0.1	-0.3	-0.4	-0.1	-115	-0.8	-0.3	-1.8	-3.0	-0.0	-0.2	-0.2	-0.4	-0.0	-8.3	+0.0
Minimum price 45p + total off-t discount ban	-26	-0.1	-0.4	-0.6	-0.1	-151	-1.0	-0.4	-2.4	-3.9	-0.1	-0.2	-0.3	-0.5	-0.0	-10.6	+0.0
Minimum price 50p + total off-t discount ban	-34	-0.1	-0.5	-0.8	-0.2	-199	-1.4	-0.6	-3.1	-5.2	-0.1	-0.2	-0.3	-0.7	-0.0	-13.7	+0.0
Minimum price 55p + total off-t discount ban	-44	-0.2	-0.6	-1.0	-0.2	-258	-1.8	-0.7	-4.1	-6.7	-0.1	-0.3	-0.4	-0.9	-0.0	-17.8	+0.0
Minimum price 60p + total off-t discount ban	-56	-0.2	-0.8	-1.3	-0.3	-325	-2.3	-0.9	-5.2	-8.5	-0.1	-0.4	-0.6	-1.1	-0.0	-22.6	+0.0
Minimum price 65p + total off-t discount ban	-69	-0.3	-1.0	-1.5	-0.3	-394	-2.8	-1.2	-6.4	-10.4	-0.2	-0.5	-0.7	-1.4	-0.0	-27.9	+0.0
Minimum price 70p + total off-t discount ban	-81	-0.3	-1.2	-1.8	-0.4	-463	-3.3	-1.4	-7.7	-12.3	-0.2	-0.6	-0.8	-1.6	-0.0	-33.3	+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)
Minimum price 25p	-1	-0.0	-0.0	-0.0	-0.0	-7	-0.1	-0.0	-0.2	-0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.7	-0.1
Minimum price 30p	-2	-0.0	-0.0	-0.1	-0.0	-14	-0.2	-0.0	-0.3	-0.4	-0.0	-0.0	-0.0	-0.1	-0.0	-1.5	-0.2
Minimum price 35p	-4	-0.0	-0.1	-0.1	-0.0	-31	-0.3	-0.1	-0.7	-0.8	-0.0	-0.1	-0.1	-0.2	-0.0	-2.9	-0.3
Minimum price 40p	-9	-0.1	-0.1	-0.3	-0.1	-64	-0.6	-0.1	-1.4	-1.6	-0.0	-0.1	-0.2	-0.3	-0.0	-5.3	-0.6
Minimum price 45p	-16	-0.1	-0.2	-0.4	-0.1	-112	-1.1	-0.2	-2.5	-2.8	-0.1	-0.2	-0.3	-0.5	-0.0	-8.5	-0.9
Minimum price 50p	-25	-0.2	-0.3	-0.7	-0.1	-169	-1.6	-0.3	-3.6	-4.2	-0.1	-0.3	-0.4	-0.7	-0.0	-12.2	-1.3
Minimum price 55p	-34	-0.2	-0.4	-0.9	-0.2	-233	-2.2	-0.4	-4.9	-5.7	-0.1	-0.3	-0.5	-1.0	-0.0	-16.5	-1.7
Minimum price 60p	-44	-0.3	-0.5	-1.1	-0.2	-297	-2.7	-0.5	-6.2	-7.3	-0.1	-0.4	-0.7	-1.2	-0.0	-21.0	-2.0
Minimum price 65p	-53	-0.3	-0.6	-1.4	-0.3	-354	-3.2	-0.6	-7.2	-8.7	-0.2	-0.5	-0.8	-1.5	-0.0	-24.9	-2.3
Minimum price 70p	-62	-0.4	-0.7	-1.6	-0.3	-413	-3.7	-0.7	-8.3	-10.1	-0.2	-0.6	-0.9	-1.7	-0.0	-29.0	-2.6
Total off-trade discount ban	-10	-0.1	-0.1	-0.3	-0.1	-71	-0.7	-0.1	-1.5	-1.7	-0.0	-0.1	-0.1	-0.2	-0.0	-4.2	-0.5
Minimum price 25p + total off-t discount ban	-11	-0.1	-0.1	-0.3	-0.1	-77	-0.7	-0.1	-1.7	-1.9	-0.0	-0.1	-0.1	-0.2	-0.0	-4.8	-0.5
Minimum price 30p + total off-t discount ban	-12	-0.1	-0.1	-0.3	-0.1	-83	-0.8	-0.1	-1.8	-2.0	-0.0	-0.1	-0.2	-0.3	-0.0	-5.5	-0.6
Minimum price 35p + total off-t discount ban	-14	-0.1	-0.2	-0.4	-0.1	-96	-0.9	-0.2	-2.1	-2.4	-0.0	-0.1	-0.2	-0.4	-0.0	-6.6	-0.7
Minimum price 40p + total off-t discount ban	-18	-0.1	-0.2	-0.5	-0.1	-121	-1.2	-0.2	-2.6	-3.0	-0.1	-0.2	-0.3	-0.5	-0.0	-8.6	-0.9
Minimum price 45p + total off-t discount ban	-23	-0.1	-0.3	-0.6	-0.1	-159	-1.5	-0.3	-3.4	-3.9	-0.1	-0.2	-0.4	-0.6	-0.0	-11.2	-1.2
Minimum price 50p + total off-t discount ban	-30	-0.2	-0.4	-0.8	-0.2	-205	-1.9	-0.3	-4.4	-5.1	-0.1	-0.3	-0.5	-0.8	-0.0	-14.5	-1.5
Minimum price 55p + total off-t discount ban	-39	-0.2	-0.4	-1.0	-0.2	-260	-2.4	-0.4	-5.4	-6.4	-0.1	-0.4	-0.6	-1.1	-0.0	-18.3	-1.8
Minimum price 60p + total off-t discount ban	-47	-0.3	-0.6	-1.2	-0.2	-318	-2.9	-0.5	-6.5	-7.8	-0.1	-0.5	-0.7	-1.3	-0.0	-22.4	-2.1
Minimum price 65p + total off-t discount ban	-56	-0.3	-0.7	-1.4	-0.3	-371	-3.3	-0.6	-7.5	-9.1	-0.2	-0.5	-0.8	-1.5	-0.0	-26.1	-2.4
Minimum price 70p + total off-t discount ban	-64	-0.4	-0.8	-1.6	-0.3	-426	-3.8	-0.8	-8.5	-10.4	-0.2	-0.6	-1.0	-1.8	-0.0	-30.0	-2.6

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)							
						Total value of harm reduction								Total value of harm reduction		
	Healthcare costs	Crime costs	Absence costs	Unemployment costs	Total direct costs	Health QALY value	Crime QALY value	incl. QALYs	Healthcare costs	Crime costs	Absence costs	Unemployment costs	Total direct costs	Health QALY value	Crime QALY value	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	
Policy Scenario																
Minimum price 25p	+0.4	-0	-1	-2.3	-2.1	+1.0	-0	-1.1	+2	-	-1	-19	-18	+7	-	-11
Minimum price 30p	+0.1	-1	-2	-4.8	-5.0	+3	-1	-4.7	-2	-1	-2	-40	-44	-9	-	-54
Minimum price 35p	-0.5	-2	-5	-9.0	-10.2	-1.4	-1	-11.7	-12	-1	-4	-75	-92	-53	-1	-146
Minimum price 40p	-2.0	-4	-1.0	-15.3	-18.6	-5.1	-2	-24.0	-35	-3	-8	-127	-173	-151	-2	-327
Minimum price 45p	-4.0	-7	-1.8	-23.2	-29.8	-10.4	-5	-40.6	-70	-6	-15	-193	-284	-301	-4	-589
Minimum price 50p	-6.7	-1.2	-3.0	-32.1	-42.9	-17.2	-7	-60.9	-114	-10	-25	-267	-416	-492	-7	-915
Minimum price 55p	-9.9	-1.8	-4.4	-41.6	-57.6	-25.6	-1.1	-84.3	-167	-15	-37	-346	-564	-720	-10	-1,294
Minimum price 60p	-13.4	-2.4	-6.0	-50.0	-71.7	-34.7	-1.5	-107.9	-224	-20	-50	-416	-709	-963	-14	-1,686
Minimum price 65p	-16.9	-3.0	-7.6	-56.4	-83.9	-44.0	-1.9	-129.8	-280	-25	-63	-469	-838	-1,201	-17	-2,056
Minimum price 70p	-20.6	-3.7	-9.3	-62.6	-96.2	-53.6	-2.3	-152.1	-338	-31	-77	-521	-967	-1,442	-21	-2,430
Total off-trade discount ban	-3.8	-7	-1.8	-11.3	-17.6	-10.0	-4	-28.0	-62	-6	-15	-94	-178	-269	-4	-451
Minimum price 25p + total off-t discount ban	-3.9	-7	-1.9	-13.3	-19.8	-10.2	-4	-30.5	-64	-6	-16	-111	-197	-278	-4	-479
Minimum price 30p + total off-t discount ban	-4.0	-7	-2.0	-15.3	-22.0	-10.6	-5	-33.1	-67	-6	-17	-127	-217	-290	-4	-511
Minimum price 35p + total off-t discount ban	-4.4	-8	-2.2	-18.4	-25.9	-11.7	-5	-38.1	-74	-7	-19	-153	-252	-320	-5	-577
Minimum price 40p + total off-t discount ban	-5.4	-1.0	-2.7	-23.3	-32.4	-14.3	-6	-47.3	-91	-8	-22	-194	-315	-393	-6	-714
Minimum price 45p + total off-t discount ban	-7.1	-1.2	-3.3	-29.5	-41.2	-18.6	-8	-60.5	-119	-10	-28	-245	-403	-514	-7	-924
Minimum price 50p + total off-t discount ban	-9.3	-1.6	-4.3	-36.8	-52.0	-24.2	-1.0	-77.2	-156	-13	-36	-306	-511	-670	-9	-1,191
Minimum price 55p + total off-t discount ban	-12.0	-2.1	-5.5	-44.8	-64.4	-31.3	-1.3	-97.0	-200	-17	-46	-373	-636	-862	-12	-1,510
Minimum price 60p + total off-t discount ban	-15.1	-2.6	-6.9	-52.2	-76.8	-39.3	-1.6	-117.8	-250	-22	-57	-434	-764	-1,075	-15	-1,854
Minimum price 65p + total off-t discount ban	-18.4	-3.2	-8.3	-58.1	-88.0	-47.8	-2.0	-137.9	-302	-27	-69	-483	-881	-1,293	-19	-2,193
Minimum price 70p + total off-t discount ban	-21.9	-3.9	-9.9	-64.0	-99.7	-56.9	-2.4	-159.0	-357	-32	-83	-532	-1,004	-1,520	-22	-2,546

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

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SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	+0.3	-0	-0	+0	+3	+1.0	-0	+1.3	+3	-	-	+	+3	+12	-	+15
Minimum price 30p	+0.3	-0	-0	+0	+3	+8	-0	+1.1	+3	-	-	+	+3	+9	-	+11
Minimum price 35p	+0.0	-0	-1	+0	-1	+1	-0	-0	+	-	-1	+	-1	-4	-	-4
Minimum price 40p	-0.4	-1	-3	+0	-8	-1.2	-0	-2.0	-5	-1	-2	+	-7	-28	-	-36
Minimum price 45p	-1.0	-2	-6	+0	-1.8	-2.8	-1	-4.7	-12	-1	-5	+	-18	-62	-1	-80
Minimum price 50p	-1.9	-3	-1.0	+0	-3.2	-5.0	-2	-8.5	-21	-3	-8	+	-32	-106	-2	-141
Minimum price 55p	-2.9	-5	-1.6	+0	-5.1	-7.9	-3	-13.3	-33	-5	-13	+	-51	-162	-3	-216
Minimum price 60p	-4.1	-8	-2.3	+0	-7.2	-11.0	-5	-18.7	-46	-7	-19	+	-71	-223	-5	-299
Minimum price 65p	-5.4	-1.0	-3.0	+0	-9.4	-14.5	-7	-24.6	-60	-9	-25	+	-94	-288	-6	-388
Minimum price 70p	-6.7	-1.3	-3.8	+0	-11.9	-18.3	-8	-31.0	-75	-11	-32	+	-118	-356	-8	-481
Total off-trade discount ban	-1.3	-3	-9	+0	-2.5	-3.7	-2	-6.3	-15	-2	-7	+	-24	-69	-2	-95
Minimum price 25p + total off-t discount ban	-1.3	-3	-9	+0	-2.4	-3.6	-2	-6.2	-14	-2	-7	+	-24	-70	-2	-95
Minimum price 30p + total off-t discount ban	-1.3	-3	-9	+0	-2.5	-3.7	-2	-6.3	-14	-2	-7	+	-24	-71	-2	-97
Minimum price 35p + total off-t discount ban	-1.4	-3	-9	+0	-2.6	-3.9	-2	-6.7	-15	-2	-8	+	-25	-76	-2	-104
Minimum price 40p + total off-t discount ban	-1.7	-3	-1.1	+0	-3.1	-4.7	-2	-8.0	-19	-3	-9	+	-30	-93	-2	-125
Minimum price 45p + total off-t discount ban	-2.2	-4	-1.3	+0	-3.9	-6.0	-3	-10.2	-24	-3	-11	+	-39	-120	-2	-161
Minimum price 50p + total off-t discount ban	-2.9	-5	-1.7	+0	-5.1	-7.8	-3	-13.2	-32	-4	-14	+	-50	-157	-3	-210
Minimum price 55p + total off-t discount ban	-3.7	-7	-2.2	+0	-6.6	-10.2	-4	-17.2	-42	-6	-18	+	-65	-203	-4	-272
Minimum price 60p + total off-t discount ban	-4.8	-9	-2.7	+0	-8.4	-12.9	-6	-21.9	-53	-7	-23	+	-83	-256	-5	-344
Minimum price 65p + total off-t discount ban	-5.9	-1.1	-3.4	+0	-10.5	-16.1	-7	-27.3	-66	-9	-28	+	-104	-315	-7	-426
Minimum price 70p + total off-t discount ban	-7.2	-1.4	-4.2	+0	-12.8	-19.6	-9	-33.2	-81	-11	-35	+	-127	-379	-8	-514

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HAZARDOUS	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	+0.1	-0	-0	+0	+1	+3	-0	+4	+1	-	-	+	+1	+4	-	+5
Minimum price 30p	+0.1	-0	-0	+0	+0	+2	-0	+2	+	-	-	+	+	+1	-	+1
Minimum price 35p	-0.1	-0	-1	+0	-2	-2	-0	-4	-2	-	-1	+	-3	-8	-	-11
Minimum price 40p	-0.5	-1	-2	+0	-8	-1.3	-1	-2.2	-9	-1	-2	+	-12	-42	-1	-54
Minimum price 45p	-1.3	-2	-5	+0	-1.9	-3.2	-1	-5.2	-23	-2	-4	+	-28	-99	-1	-129
Minimum price 50p	-2.3	-3	-8	+0	-3.4	-5.6	-2	-9.2	-40	-3	-7	+	-50	-175	-2	-227
Minimum price 55p	-3.5	-5	-1.2	+0	-5.2	-8.7	-3	-14.3	-63	-4	-10	+	-77	-270	-3	-351
Minimum price 60p	-4.9	-7	-1.7	+0	-7.3	-12.2	-4	-19.9	-87	-6	-14	+	-107	-373	-4	-484
Minimum price 65p	-6.3	-9	-2.2	+0	-9.4	-15.7	-6	-25.7	-112	-7	-19	+	-138	-476	-5	-619
Minimum price 70p	-7.7	-1.1	-2.8	+0	-11.5	-19.3	-7	-31.5	-137	-9	-23	+	-169	-579	-6	-754
Total off-trade discount ban	-1.4	-2	-6	+0	-2.2	-3.7	-1	-6.1	-26	-2	-5	+	-33	-113	-1	-147
Minimum price 25p + total off-t discount ban	-1.5	-2	-6	+0	-2.3	-3.7	-1	-6.1	-26	-2	-5	+	-33	-114	-1	-148
Minimum price 30p + total off-t discount ban	-1.5	-2	-6	+0	-2.3	-3.8	-2	-6.2	-26	-2	-5	+	-33	-116	-1	-151
Minimum price 35p + total off-t discount ban	-1.6	-3	-6	+0	-2.5	-4.0	-2	-6.7	-28	-2	-5	+	-36	-123	-2	-161
Minimum price 40p + total off-t discount ban	-1.9	-3	-8	+0	-3.0	-4.9	-2	-8.0	-34	-2	-6	+	-43	-149	-2	-194
Minimum price 45p + total off-t discount ban	-2.5	-4	-1.0	+0	-3.8	-6.4	-2	-10.4	-45	-3	-8	+	-56	-196	-2	-254
Minimum price 50p + total off-t discount ban	-3.3	-5	-1.2	+0	-5.0	-8.4	-3	-13.8	-60	-4	-10	+	-74	-259	-3	-336
Minimum price 55p + total off-t discount ban	-4.4	-6	-1.6	+0	-6.6	-11.0	-4	-18.0	-78	-5	-13	+	-97	-337	-4	-437
Minimum price 60p + total off-t discount ban	-5.6	-8	-2.0	+0	-8.4	-14.0	-5	-22.9	-100	-6	-17	+	-123	-426	-5	-554
Minimum price 65p + total off-t discount ban	-6.9	-1.0	-2.5	+0	-10.3	-17.3	-6	-28.2	-123	-8	-21	+	-152	-520	-6	-677
Minimum price 70p + total off-t discount ban	-8.2	-1.1	-3.0	+0	-12.3	-20.7	-7	-33.7	-147	-9	-25	+	-181	-616	-7	-804

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	-0.1	-0	-1	-2.3	-2.5	-3	-0	-2.8	-2	-	-1	-19	-22	-9	-	-31
Minimum price 30p	-0.2	-1	-2	-4.8	-5.3	-6	-0	-5.9	-5	-	-1	-40	-47	-19	-	-66
Minimum price 35p	-0.5	-1	-3	-9.0	-10.0	-1.3	-1	-11.4	-10	-1	-3	-75	-89	-41	-1	-130
Minimum price 40p	-1.0	-2	-5	-15.3	-17.0	-2.6	-1	-19.8	-21	-2	-4	-127	-154	-81	-1	-237
Minimum price 45p	-1.7	-3	-8	-23.2	-26.0	-4.4	-2	-30.6	-35	-3	-7	-193	-238	-140	-2	-380
Minimum price 50p	-2.5	-5	-12	-32.1	-36.3	-6.5	-3	-43.0	-52	-4	-10	-267	-333	-209	-3	-545
Minimum price 55p	-3.4	-6	-16	-41.6	-47.2	-8.8	-4	-56.4	-72	-5	-13	-346	-436	-287	-4	-726
Minimum price 60p	-4.4	-8	-20	-50.0	-57.1	-11.3	-5	-68.9	-91	-7	-16	-416	-529	-365	-5	-899
Minimum price 65p	-5.2	-10	-23	-56.4	-64.9	-13.5	-6	-78.9	-107	-8	-19	-469	-604	-434	-6	-1,043
Minimum price 70p	-6.1	-11	-27	-62.6	-72.5	-15.7	-7	-88.9	-124	-10	-22	-521	-677	-504	-6	-1,188
Total off-trade discount ban	-1.0	-1	-4	-11.3	-12.9	-2.5	-1	-15.4	-22	-1	-3	-94	-120	-86	-1	-207
Minimum price 25p + total off-t discount ban	-1.1	-2	-5	-13.3	-15.0	-2.8	-1	-17.9	-24	-1	-4	-111	-140	-94	-1	-235
Minimum price 30p + total off-t discount ban	-1.2	-2	-5	-15.3	-17.2	-3.1	-1	-20.3	-26	-2	-4	-127	-158	-102	-1	-262
Minimum price 35p + total off-t discount ban	-1.4	-2	-6	-18.4	-20.7	-3.6	-1	-24.5	-30	-2	-5	-153	-190	-119	-1	-311
Minimum price 40p + total off-t discount ban	-1.8	-3	-8	-23.3	-26.2	-4.6	-2	-31.0	-38	-3	-7	-194	-241	-151	-2	-393
Minimum price 45p + total off-t discount ban	-2.3	-4	-11	-29.5	-33.3	-6.0	-3	-39.6	-49	-4	-9	-245	-307	-197	-2	-506
Minimum price 50p + total off-t discount ban	-3.0	-5	-14	-36.8	-41.8	-7.8	-3	-49.9	-63	-5	-11	-306	-386	-254	-3	-642
Minimum price 55p + total off-t discount ban	-3.8	-7	-17	-44.8	-51.1	-9.9	-4	-61.4	-80	-6	-14	-373	-473	-320	-4	-797
Minimum price 60p + total off-t discount ban	-4.7	-9	-21	-52.2	-59.8	-12.1	-5	-72.4	-97	-7	-17	-434	-555	-390	-5	-950
Minimum price 65p + total off-t discount ban	-5.5	-10	-24	-58.1	-66.9	-14.1	-6	-81.7	-112	-8	-20	-483	-623	-454	-6	-1,083
Minimum price 70p + total off-t discount ban	-6.3	-12	-28	-64.0	-74.2	-16.3	-7	-91.2	-128	-10	-23	-532	-693	-521	-7	-1,221

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)	
	% 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														
Minimum price 25p	-0.2%	-2.0	+0.5	+0.1	+0.0	-1.3	+3.6	+2.1	-0.4	+0.7	+6.1	+0.2%	+1.65	+1.18
Minimum price 30p	-0.4%	-4.2	+1.0	+0.2	+0.0	-3.0	+7.3	+4.6	-1.0	+1.5	+12.4	+0.5%	+3.37	+2.67
Minimum price 35p	-0.9%	-7.4	+1.3	-0.4	+0.0	-6.5	+13.7	+8.5	-2.6	+2.9	+22.5	+0.9%	+6.11	+5.75
Minimum price 40p	-1.8%	-11.0	+0.8	-2.8	+0.0	-13.0	+24.9	+14.6	-6.0	+4.9	+38.5	+1.6%	+10.44	+11.74
Minimum price 45p	-3.2%	-15.3	-1.6	-6.2	+0.1	-23.0	+39.8	+22.3	-11.4	+7.6	+58.3	+2.4%	+15.82	+21.01
Minimum price 50p	-5.0%	-20.2	-5.3	-10.4	+0.1	-35.8	+55.5	+30.9	-18.8	+10.6	+78.2	+3.2%	+21.23	+32.81
Minimum price 55p	-7.1%	-25.7	-10.7	-14.9	+0.1	-51.3	+70.4	+40.3	-28.1	+13.8	+96.3	+3.9%	+26.15	+46.90
Minimum price 60p	-9.4%	-31.2	-16.9	-19.9	+0.1	-67.9	+82.1	+50.2	-38.9	+17.1	+110.5	+4.5%	+29.99	+62.29
Minimum price 65p	-11.7%	-35.2	-23.9	-25.1	+0.1	-84.0	+91.9	+60.6	-49.9	+20.6	+123.3	+5.1%	+33.48	+78.78
Minimum price 70p	-14.0%	-38.9	-31.3	-30.4	+0.1	-100.6	+97.6	+72.1	-61.9	+24.2	+132.0	+5.4%	+35.85	+96.27
Total off-trade discount ban	-2.5%	-6.0	-9.4	-2.2	-0.2	-17.8	+34.2	+8.5	-6.9	+3.0	+38.8	+1.6%	+10.54	+17.96
Minimum price 25p + total off-t discount ban	-2.6%	-7.7	-9.0	-2.1	-0.2	-19.0	+37.0	+10.4	-7.3	+3.6	+43.7	+1.8%	+11.86	+18.99
Minimum price 30p + total off-t discount ban	-2.8%	-9.4	-8.7	-2.1	-0.2	-20.4	+39.6	+12.3	-7.9	+4.2	+48.3	+2.0%	+13.11	+20.18
Minimum price 35p + total off-t discount ban	-3.2%	-11.8	-8.6	-2.6	-0.2	-23.2	+44.2	+15.5	-9.3	+5.3	+55.7	+2.3%	+15.13	+22.55
Minimum price 40p + total off-t discount ban	-4.0%	-14.5	-9.1	-4.8	-0.2	-28.5	+52.4	+20.7	-12.4	+7.1	+67.8	+2.8%	+18.42	+27.32
Minimum price 45p + total off-t discount ban	-5.1%	-17.6	-10.9	-7.9	-0.2	-36.7	+62.8	+27.4	-17.3	+9.4	+82.3	+3.4%	+22.34	+34.67
Minimum price 50p + total off-t discount ban	-6.6%	-21.6	-13.8	-11.6	-0.2	-47.2	+73.4	+35.0	-23.9	+12.0	+96.4	+4.0%	+26.18	+44.23
Minimum price 55p + total off-t discount ban	-8.4%	-26.5	-18.1	-15.7	-0.2	-60.5	+83.2	+43.6	-32.5	+14.9	+109.2	+4.5%	+29.66	+56.15
Minimum price 60p + total off-t discount ban	-10.5%	-31.6	-23.2	-20.4	-0.2	-75.4	+91.0	+52.8	-42.7	+18.0	+119.2	+4.9%	+32.37	+69.74
Minimum price 65p + total off-t discount ban	-12.5%	-35.3	-29.4	-25.4	-0.2	-90.3	+98.0	+62.9	-53.3	+21.4	+129.0	+5.3%	+35.02	+85.02
Minimum price 70p + total off-t discount ban	-14.7%	-38.8	-36.2	-30.7	-0.2	-106.0	+101.5	+74.0	-65.1	+24.9	+135.3	+5.5%	+36.74	+101.65

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.
Minimum price 25p	-0.0%	-0.2	+0.1	+0.1	+0.0	-0.0	+0.5	+0.6	+0.0	+0.2	+1.3	+0.1%	+0.51	+0.21
Minimum price 30p	-0.0%	-0.3	+0.1	+0.1	+0.0	-0.1	+0.9	+1.2	-0.0	+0.4	+2.4	+0.3%	+0.95	+0.45
Minimum price 35p	-0.1%	-0.5	-0.1	+0.1	+0.0	-0.4	+1.9	+2.0	-0.1	+0.7	+4.4	+0.5%	+1.70	+1.01
Minimum price 40p	-0.4%	-0.7	-0.4	-0.3	+0.0	-1.3	+3.8	+3.2	-0.4	+1.1	+7.7	+0.8%	+2.97	+2.30
Minimum price 45p	-1.0%	-1.0	-1.1	-0.9	+0.0	-3.0	+6.9	+4.7	-1.0	+1.6	+12.3	+1.3%	+4.77	+4.51
Minimum price 50p	-1.7%	-1.5	-2.2	-1.6	+0.0	-5.4	+10.9	+6.5	-1.7	+2.2	+17.9	+1.9%	+6.93	+7.60
Minimum price 55p	-2.7%	-2.2	-3.8	-2.4	+0.0	-8.4	+15.3	+8.6	-2.6	+2.9	+24.1	+2.6%	+9.34	+11.51
Minimum price 60p	-3.8%	-2.9	-5.5	-3.4	+0.0	-11.7	+19.7	+10.8	-3.8	+3.6	+30.3	+3.3%	+11.73	+15.93
Minimum price 65p	-5.0%	-3.6	-7.4	-4.5	+0.0	-15.5	+23.8	+13.1	-5.2	+4.3	+35.9	+3.9%	+13.92	+20.78
Minimum price 70p	-6.2%	-4.5	-9.4	-5.6	+0.0	-19.5	+27.1	+15.7	-6.9	+5.1	+41.0	+4.4%	+15.90	+26.01
Total off-trade discount ban	-1.3%	-0.8	-2.7	-0.4	-0.1	-4.0	+8.2	+2.0	-0.7	+0.7	+10.1	+1.1%	+3.93	+5.64
Minimum price 25p + total off-t discount ban	-1.3%	-1.0	-2.6	-0.4	-0.1	-4.0	+8.6	+2.5	-0.7	+0.8	+11.3	+1.2%	+4.36	+5.82
Minimum price 30p + total off-t discount ban	-1.3%	-1.1	-2.6	-0.3	-0.1	-4.1	+9.0	+3.0	-0.7	+1.0	+12.2	+1.3%	+4.72	+6.02
Minimum price 35p + total off-t discount ban	-1.4%	-1.2	-2.7	-0.4	-0.1	-4.4	+9.7	+3.6	-0.8	+1.2	+13.7	+1.5%	+5.30	+6.46
Minimum price 40p + total off-t discount ban	-1.6%	-1.3	-3.0	-0.7	-0.1	-5.1	+11.2	+4.7	-1.1	+1.6	+16.3	+1.8%	+6.31	+7.49
Minimum price 45p + total off-t discount ban	-2.1%	-1.5	-3.6	-1.3	-0.0	-6.4	+13.4	+6.0	-1.6	+2.0	+19.8	+2.1%	+7.68	+9.22
Minimum price 50p + total off-t discount ban	-2.7%	-1.9	-4.5	-1.9	-0.0	-8.3	+16.2	+7.6	-2.3	+2.5	+24.0	+2.6%	+9.31	+11.64
Minimum price 55p + total off-t discount ban	-3.5%	-2.4	-5.7	-2.7	-0.0	-10.8	+19.4	+9.4	-3.2	+3.1	+28.8	+3.1%	+11.17	+14.85
Minimum price 60p + total off-t discount ban	-4.4%	-3.0	-7.1	-3.5	-0.0	-13.7	+22.8	+11.4	-4.3	+3.8	+33.8	+3.7%	+13.10	+18.67
Minimum price 65p + total off-t discount ban	-5.5%	-3.7	-8.8	-4.6	-0.0	-17.1	+26.1	+13.6	-5.6	+4.5	+38.6	+4.2%	+14.96	+23.09
Minimum price 70p + total off-t discount ban	-6.7%	-4.5	-10.6	-5.6	-0.0	-20.8	+28.9	+16.2	-7.3	+5.3	+43.1	+4.7%	+16.69	+28.00

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.
Minimum price 25p	-0.1%	-2.6	+1.4	+0.3	+0.0	-0.9	+1.5	+1.1	+0.0	+0.4	+2.9	+0.3%	+3.68	+2.03
Minimum price 30p	-0.2%	-5.3	+2.7	+0.3	+0.0	-2.3	+3.1	+2.4	-0.0	+0.8	+6.2	+0.6%	+7.79	+4.67
Minimum price 35p	-0.4%	-9.3	+3.9	-1.0	+0.0	-6.3	+5.8	+4.4	-0.4	+1.4	+11.3	+1.2%	+14.23	+10.13
Minimum price 40p	-1.2%	-13.6	+3.2	-5.9	+0.1	-16.2	+10.8	+7.5	-1.6	+2.5	+19.2	+2.0%	+24.23	+21.42
Minimum price 45p	-2.4%	-18.6	-2.3	-13.2	+0.1	-34.1	+17.5	+11.4	-3.7	+3.9	+29.0	+3.0%	+36.57	+39.80
Minimum price 50p	-4.1%	-24.4	-11.6	-22.2	+0.1	-58.1	+24.7	+15.8	-6.8	+5.3	+39.0	+4.0%	+49.06	+63.49
Minimum price 55p	-6.3%	-31.0	-25.1	-32.2	+0.0	-88.3	+31.6	+20.5	-10.9	+6.9	+48.2	+5.0%	+60.68	+92.21
Minimum price 60p	-8.7%	-38.2	-40.7	-43.0	-0.0	-122.0	+37.0	+25.4	-15.7	+8.6	+55.4	+5.8%	+69.75	+123.67
Minimum price 65p	-11.1%	-43.3	-58.3	-54.5	-0.1	-156.2	+41.2	+30.7	-21.0	+10.4	+61.3	+6.4%	+77.18	+157.64
Minimum price 70p	-13.5%	-46.8	-77.1	-66.4	-0.1	-190.4	+43.7	+36.3	-26.5	+12.1	+65.7	+6.8%	+82.72	+193.54
Total off-trade discount ban	-2.6%	-8.3	-23.5	-5.2	-0.4	-37.3	+14.6	+4.2	-3.4	+1.5	+16.9	+1.8%	+21.23	+37.01
Minimum price 25p + total off-t discount ban	-2.7%	-10.6	-22.4	-4.9	-0.3	-38.2	+15.8	+5.1	-3.4	+1.8	+19.3	+2.0%	+24.27	+38.83
Minimum price 30p + total off-t discount ban	-2.8%	-12.7	-21.6	-5.0	-0.3	-39.6	+17.0	+6.1	-3.5	+2.1	+21.7	+2.3%	+27.32	+40.96
Minimum price 35p + total off-t discount ban	-3.1%	-15.6	-20.9	-6.2	-0.3	-43.0	+19.0	+7.8	-3.9	+2.7	+25.6	+2.7%	+32.24	+45.26
Minimum price 40p + total off-t discount ban	-3.6%	-18.4	-21.7	-10.8	-0.3	-51.2	+22.8	+10.5	-5.0	+3.6	+31.9	+3.3%	+40.14	+54.35
Minimum price 45p + total off-t discount ban	-4.7%	-21.8	-26.1	-17.3	-0.3	-65.5	+27.5	+13.9	-6.9	+4.7	+39.3	+4.1%	+49.44	+68.96
Minimum price 50p + total off-t discount ban	-6.0%	-26.4	-33.1	-25.3	-0.3	-85.1	+32.4	+17.7	-9.6	+6.0	+46.5	+4.8%	+58.62	+88.08
Minimum price 55p + total off-t discount ban	-7.9%	-32.1	-43.8	-34.3	-0.3	-110.5	+37.1	+22.1	-13.4	+7.5	+53.3	+5.5%	+67.08	+112.21
Minimum price 60p + total off-t discount ban	-10.0%	-38.7	-56.6	-44.4	-0.4	-140.1	+40.6	+26.7	-17.9	+9.1	+58.5	+6.1%	+73.65	+139.80
Minimum price 65p + total off-t discount ban	-12.2%	-43.3	-72.2	-55.5	-0.4	-171.5	+43.4	+31.7	-22.9	+10.7	+62.9	+6.5%	+79.20	+171.12
Minimum price 70p + total off-t discount ban	-14.5%	-46.6	-89.5	-67.2	-0.5	-203.8	+44.8	+37.2	-28.4	+12.5	+66.1	+6.9%	+83.25	+205.16

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)	
	% 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.
Minimum price 25p	-0.6%	-26.4	+3.5	+0.2	+0.0	-22.7	+1.6	+0.4	-0.4	+0.2	+1.8	+0.4%	+10.14	+12.14
Minimum price 30p	-1.3%	-57.2	+6.8	+0.3	+0.1	-49.9	+3.3	+1.0	-1.0	+0.4	+3.7	+0.7%	+20.63	+27.34
Minimum price 35p	-2.6%	-102.3	+9.7	-5.4	+0.2	-97.9	+6.0	+2.1	-2.1	+0.7	+6.8	+1.3%	+37.23	+57.74
Minimum price 40p	-4.5%	-154.3	+7.3	-26.3	+0.3	-172.9	+10.3	+3.8	-4.0	+1.4	+11.4	+2.3%	+62.92	+111.36
Minimum price 45p	-7.2%	-213.5	-5.2	-55.8	+0.5	-274.0	+15.3	+6.0	-6.7	+2.1	+16.6	+3.3%	+91.78	+187.05
Minimum price 50p	-10.4%	-280.6	-25.2	-90.0	+0.7	-395.1	+19.8	+8.4	-10.3	+3.0	+20.9	+4.2%	+115.15	+277.92
Minimum price 55p	-14.0%	-354.2	-53.0	-126.9	+0.9	-533.1	+23.0	+11.0	-14.6	+3.9	+23.3	+4.7%	+128.62	+380.92
Minimum price 60p	-17.8%	-424.9	-85.5	-165.9	+1.2	-675.2	+24.7	+13.7	-19.3	+4.8	+23.9	+4.8%	+131.82	+490.89
Minimum price 65p	-21.0%	-471.2	-122.3	-205.9	+1.4	-798.0	+26.3	+16.5	-23.6	+5.8	+25.0	+5.0%	+137.63	+606.20
Minimum price 70p	-24.4%	-518.3	-161.9	-246.7	+0.7	-926.2	+26.0	+19.6	-28.4	+6.8	+24.0	+4.8%	+132.26	+727.55
Total off-trade discount ban	-3.7%	-72.8	-49.1	-15.3	-2.0	-139.2	+11.0	+2.3	-2.7	+0.8	+11.3	+2.3%	+62.31	+118.38
Minimum price 25p + total off-t discount ban	-4.2%	-95.8	-46.3	-15.2	-2.0	-159.3	+12.2	+2.6	-3.1	+0.9	+12.6	+2.5%	+69.60	+128.86
Minimum price 30p + total off-t discount ban	-4.8%	-119.9	-44.1	-15.3	-1.9	-181.2	+13.3	+3.1	-3.6	+1.1	+13.9	+2.8%	+76.41	+140.76
Minimum price 35p + total off-t discount ban	-5.8%	-154.1	-42.5	-20.6	-1.9	-219.1	+15.1	+4.0	-4.6	+1.4	+15.9	+3.2%	+87.43	+163.78
Minimum price 40p + total off-t discount ban	-7.4%	-193.7	-45.1	-39.8	-1.7	-280.3	+18.0	+5.4	-6.3	+1.9	+19.1	+3.8%	+105.05	+205.99
Minimum price 45p + total off-t discount ban	-9.6%	-240.2	-55.1	-66.4	-1.6	-363.3	+21.3	+7.3	-8.7	+2.6	+22.5	+4.5%	+123.85	+266.23
Minimum price 50p + total off-t discount ban	-12.3%	-296.7	-70.6	-97.4	-1.4	-466.0	+24.2	+9.4	-11.9	+3.4	+25.0	+5.0%	+137.96	+341.35
Minimum price 55p + total off-t discount ban	-15.5%	-362.8	-92.8	-131.4	-1.2	-588.2	+26.1	+11.8	-16.0	+4.2	+26.1	+5.2%	+143.98	+430.80
Minimum price 60p + total off-t discount ban	-18.9%	-428.7	-119.9	-168.3	-1.0	-717.9	+26.8	+14.3	-20.5	+5.1	+25.7	+5.1%	+141.85	+530.14
Minimum price 65p + total off-t discount ban	-21.9%	-472.3	-152.6	-207.6	-0.8	-833.2	+27.6	+17.1	-24.6	+6.0	+26.1	+5.2%	+143.84	+638.69
Minimum price 70p + total off-t discount ban	-25.2%	-518.0	-189.1	-248.1	-1.2	-956.4	+26.8	+20.1	-29.3	+7.0	+24.6	+4.9%	+135.35	+755.31

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.	
	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																	
Minimum price 25p	+1	-0.0	+0.1	+0.0	+0.0	-6	-0.1	+0.1	-0.1	+0.1	-0.0	-0.0	-0.1	-0.1	-0.0	-0.9	-0.1
Minimum price 30p	-1	-0.0	+0.0	-0.0	+0.0	-17	-0.2	+0.0	-0.3	-0.3	-0.0	-0.1	-0.2	-0.3	-0.0	-2.2	-0.2
Minimum price 35p	-6	-0.0	-0.1	-0.2	-0.0	-42	-0.4	-0.0	-0.9	-1.1	-0.1	-0.2	-0.3	-0.6	-0.0	-4.7	-0.3
Minimum price 40p	-16	-0.1	-0.2	-0.4	-0.1	-97	-0.9	-0.2	-2.0	-2.9	-0.2	-0.3	-0.6	-1.1	-0.0	-9.3	-0.6
Minimum price 45p	-32	-0.2	-0.5	-0.8	-0.2	-182	-1.6	-0.5	-3.7	-5.4	-0.3	-0.6	-1.1	-1.9	-0.0	-16.6	-0.9
Minimum price 50p	-51	-0.2	-0.7	-1.3	-0.3	-288	-2.5	-0.8	-5.8	-8.6	-0.4	-0.9	-1.6	-2.9	-0.0	-26.2	-1.2
Minimum price 55p	-75	-0.3	-1.1	-1.9	-0.4	-412	-3.5	-1.2	-8.2	-12.4	-0.6	-1.2	-2.3	-4.1	-0.0	-38.1	-1.6
Minimum price 60p	-100	-0.4	-1.5	-2.5	-0.6	-542	-4.6	-1.6	-10.7	-16.3	-0.8	-1.6	-3.0	-5.4	-0.0	-51.2	-2.0
Minimum price 65p	-124	-0.5	-1.9	-3.2	-0.7	-663	-5.5	-2.0	-13.0	-20.1	-1.0	-2.1	-3.7	-6.7	-0.1	-64.2	-2.2
Minimum price 70p	-149	-0.6	-2.3	-3.8	-0.8	-784	-6.5	-2.5	-15.4	-24.0	-1.2	-2.5	-4.4	-8.1	-0.1	-77.8	-2.5
Total off-trade discount ban	-27	-0.1	-0.4	-0.7	-0.2	-143	-1.2	-0.4	-2.9	-4.4	-0.2	-0.5	-0.8	-1.5	-0.0	-15.1	-0.4
Minimum price 25p + total off-t discount ban	-28	-0.1	-0.4	-0.7	-0.2	-151	-1.3	-0.4	-3.0	-4.6	-0.2	-0.5	-0.9	-1.6	-0.0	-16.0	-0.5
Minimum price 30p + total off-t discount ban	-29	-0.1	-0.4	-0.8	-0.2	-159	-1.4	-0.5	-3.2	-4.9	-0.3	-0.5	-0.9	-1.7	-0.0	-17.0	-0.6
Minimum price 35p + total off-t discount ban	-32	-0.1	-0.5	-0.9	-0.2	-178	-1.5	-0.5	-3.6	-5.4	-0.3	-0.6	-1.1	-2.0	-0.0	-19.1	-0.7
Minimum price 40p + total off-t discount ban	-40	-0.2	-0.6	-1.1	-0.2	-221	-1.9	-0.6	-4.5	-6.7	-0.3	-0.7	-1.3	-2.4	-0.0	-22.8	-0.9
Minimum price 45p + total off-t discount ban	-52	-0.2	-0.8	-1.4	-0.3	-288	-2.5	-0.8	-5.8	-8.7	-0.4	-0.9	-1.6	-3.0	-0.0	-28.6	-1.1
Minimum price 50p + total off-t discount ban	-68	-0.3	-1.0	-1.8	-0.4	-374	-3.2	-1.1	-7.5	-11.3	-0.5	-1.1	-2.1	-3.8	-0.0	-36.3	-1.4
Minimum price 55p + total off-t discount ban	-88	-0.4	-1.3	-2.3	-0.5	-480	-4.0	-1.4	-9.5	-14.5	-0.7	-1.4	-2.6	-4.8	-0.0	-46.4	-1.7
Minimum price 60p + total off-t discount ban	-110	-0.5	-1.7	-2.8	-0.6	-594	-5.0	-1.8	-11.7	-18.0	-0.9	-1.8	-3.3	-6.0	-0.0	-57.9	-2.0
Minimum price 65p + total off-t discount ban	-132	-0.6	-2.0	-3.4	-0.8	-705	-5.9	-2.2	-13.8	-21.5	-1.1	-2.2	-3.9	-7.2	-0.1	-69.9	-2.3
Minimum price 70p + total off-t discount ban	-156	-0.6	-2.4	-4.0	-0.9	-820	-6.8	-2.6	-16.1	-25.2	-1.3	-2.6	-4.6	-8.5	-0.1	-82.7	-2.5

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																	
Minimum price 25p	+2	+0.0	+0.1	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	+0.0
Minimum price 30p	+2	+0.0	+0.0	+0.1	+0.0	+2	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.3	+0.0
Minimum price 35p	+0	-0.0	+0.0	+0.0	+0.0	+1	-0.0	+0.0	+0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.7	+0.0
Minimum price 40p	-2	-0.0	-0.0	-0.1	-0.0	-2	-0.0	-0.0	-0.1	-0.4	-0.0	-0.0	-0.0	-0.1	-0.0	-1.7	+0.0
Minimum price 45p	-4	-0.0	-0.1	-0.1	-0.0	-5	-0.1	-0.1	-0.2	-0.9	-0.0	-0.1	-0.1	-0.2	-0.0	-3.7	+0.0
Minimum price 50p	-8	-0.0	-0.2	-0.2	-0.1	-8	-0.1	-0.2	-0.4	-1.5	-0.1	-0.2	-0.2	-0.5	-0.0	-6.7	+0.0
Minimum price 55p	-12	-0.0	-0.3	-0.4	-0.1	-13	-0.2	-0.3	-0.7	-2.3	-0.1	-0.3	-0.4	-0.8	-0.0	-10.6	+0.0
Minimum price 60p	-16	-0.0	-0.4	-0.5	-0.1	-19	-0.3	-0.4	-0.9	-3.1	-0.2	-0.4	-0.5	-1.1	-0.0	-15.2	+0.0
Minimum price 65p	-21	-0.0	-0.6	-0.7	-0.2	-25	-0.3	-0.6	-1.2	-4.0	-0.3	-0.5	-0.7	-1.5	-0.0	-20.2	+0.0
Minimum price 70p	-27	-0.0	-0.7	-0.9	-0.2	-31	-0.4	-0.7	-1.6	-4.9	-0.3	-0.6	-0.9	-1.9	-0.0	-25.6	+0.0
Total off-trade discount ban	-5	-0.0	-0.1	-0.2	-0.0	-6	-0.1	-0.1	-0.3	-1.0	-0.1	-0.1	-0.2	-0.4	-0.0	-5.9	+0.0
Minimum price 25p + total off-t discount ban	-5	-0.0	-0.1	-0.2	-0.0	-6	-0.1	-0.1	-0.3	-1.0	-0.1	-0.1	-0.2	-0.4	-0.0	-6.0	+0.0
Minimum price 30p + total off-t discount ban	-5	-0.0	-0.1	-0.2	-0.0	-6	-0.1	-0.1	-0.3	-1.0	-0.1	-0.1	-0.2	-0.4	-0.0	-6.2	+0.0
Minimum price 35p + total off-t discount ban	-6	-0.0	-0.2	-0.2	-0.0	-6	-0.1	-0.2	-0.3	-1.1	-0.1	-0.1	-0.2	-0.4	-0.0	-6.5	+0.0
Minimum price 40p + total off-t discount ban	-7	-0.0	-0.2	-0.2	-0.1	-8	-0.1	-0.2	-0.4	-1.3	-0.1	-0.2	-0.2	-0.5	-0.0	-7.3	+0.0
Minimum price 45p + total off-t discount ban	-9	-0.0	-0.2	-0.3	-0.1	-10	-0.1	-0.2	-0.5	-1.7	-0.1	-0.2	-0.3	-0.6	-0.0	-8.8	+0.0
Minimum price 50p + total off-t discount ban	-11	-0.0	-0.3	-0.4	-0.1	-13	-0.2	-0.3	-0.7	-2.2	-0.1	-0.2	-0.4	-0.7	-0.0	-11.1	+0.0
Minimum price 55p + total off-t discount ban	-15	-0.0	-0.4	-0.5	-0.1	-17	-0.2	-0.4	-0.9	-2.8	-0.2	-0.3	-0.5	-1.0	-0.0	-14.3	+0.0
Minimum price 60p + total off-t discount ban	-19	-0.0	-0.5	-0.6	-0.2	-22	-0.3	-0.5	-1.1	-3.5	-0.2	-0.4	-0.6	-1.3	-0.0	-18.2	+0.0
Minimum price 65p + total off-t discount ban	-23	-0.0	-0.6	-0.8	-0.2	-27	-0.4	-0.6	-1.4	-4.3	-0.3	-0.5	-0.8	-1.6	-0.0	-22.7	+0.0
Minimum price 70p + total off-t discount ban	-29	-0.0	-0.8	-0.9	-0.2	-33	-0.4	-0.8	-1.7	-5.2	-0.4	-0.7	-1.0	-2.0	-0.0	-27.7	+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.	
	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																	
Minimum price 25p	+0	-0.0	+0.0	+0.0	+0.0	-1	-0.0	+0.0	+0.0	+0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	+0.0
Minimum price 30p	-0	-0.0	+0.0	+0.0	+0.0	-3	-0.0	+0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.0	-0.3	+0.0
Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-9	-0.1	-0.0	-0.1	-0.2	-0.0	-0.1	-0.1	-0.2	-0.0	-1.0	+0.0
Minimum price 40p	-5	-0.0	-0.1	-0.1	-0.0	-30	-0.2	-0.1	-0.5	-0.8	-0.0	-0.1	-0.2	-0.3	-0.0	-2.3	+0.0
Minimum price 45p	-11	-0.0	-0.2	-0.2	-0.1	-66	-0.5	-0.2	-1.0	-1.7	-0.1	-0.2	-0.3	-0.5	-0.0	-4.6	+0.0
Minimum price 50p	-20	-0.1	-0.3	-0.4	-0.1	-114	-0.8	-0.3	-1.8	-3.0	-0.1	-0.3	-0.4	-0.8	-0.0	-7.6	+0.0
Minimum price 55p	-30	-0.1	-0.4	-0.7	-0.1	-173	-1.2	-0.5	-2.7	-4.5	-0.2	-0.4	-0.6	-1.2	-0.0	-11.6	+0.0
Minimum price 60p	-41	-0.1	-0.6	-0.9	-0.2	-236	-1.6	-0.7	-3.8	-6.2	-0.3	-0.5	-0.8	-1.6	-0.0	-15.9	+0.0
Minimum price 65p	-52	-0.2	-0.7	-1.2	-0.3	-297	-2.1	-0.9	-4.8	-7.8	-0.3	-0.6	-1.1	-2.0	-0.0	-20.4	+0.0
Minimum price 70p	-62	-0.2	-0.9	-1.4	-0.3	-358	-2.5	-1.0	-5.8	-9.4	-0.4	-0.8	-1.3	-2.4	-0.0	-24.9	+0.0
Total off-trade discount ban	-12	-0.0	-0.2	-0.3	-0.1	-69	-0.5	-0.2	-1.1	-1.8	-0.1	-0.2	-0.3	-0.5	-0.0	-5.1	+0.0
Minimum price 25p + total off-t discount ban	-12	-0.0	-0.2	-0.3	-0.1	-71	-0.5	-0.2	-1.1	-1.8	-0.1	-0.2	-0.3	-0.5	-0.0	-5.2	+0.0
Minimum price 30p + total off-t discount ban	-12	-0.0	-0.2	-0.3	-0.1	-73	-0.5	-0.2	-1.1	-1.9	-0.1	-0.2	-0.3	-0.5	-0.0	-5.4	+0.0
Minimum price 35p + total off-t discount ban	-13	-0.0	-0.2	-0.3	-0.1	-78	-0.5	-0.2	-1.2	-2.0	-0.1	-0.2	-0.3	-0.6	-0.0	-5.9	+0.0
Minimum price 40p + total off-t discount ban	-16	-0.1	-0.2	-0.4	-0.1	-95	-0.7	-0.3	-1.5	-2.5	-0.1	-0.2	-0.4	-0.7	-0.0	-7.0	+0.0
Minimum price 45p + total off-t discount ban	-21	-0.1	-0.3	-0.5	-0.1	-124	-0.9	-0.3	-2.0	-3.2	-0.1	-0.3	-0.5	-0.9	-0.0	-8.8	+0.0
Minimum price 50p + total off-t discount ban	-28	-0.1	-0.4	-0.6	-0.1	-163	-1.1	-0.5	-2.6	-4.2	-0.2	-0.3	-0.6	-1.1	-0.0	-11.3	+0.0
Minimum price 55p + total off-t discount ban	-36	-0.1	-0.5	-0.8	-0.2	-212	-1.5	-0.6	-3.4	-5.5	-0.2	-0.4	-0.8	-1.4	-0.0	-14.6	+0.0
Minimum price 60p + total off-t discount ban	-46	-0.2	-0.6	-1.0	-0.2	-266	-1.9	-0.8	-4.3	-7.0	-0.3	-0.6	-1.0	-1.8	-0.0	-18.4	+0.0
Minimum price 65p + total off-t discount ban	-56	-0.2	-0.8	-1.3	-0.3	-322	-2.3	-0.9	-5.2	-8.5	-0.3	-0.7	-1.2	-2.2	-0.0	-22.5	+0.0
Minimum price 70p + total off-t discount ban	-66	-0.2	-0.9	-1.5	-0.3	-379	-2.7	-1.1	-6.2	-10.0	-0.4	-0.8	-1.4	-2.6	-0.0	-26.7	+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)
Minimum price 25p	-1	-0.0	-0.0	-0.0	-0.0	-8	-0.1	-0.0	-0.2	-0.2	-0.0	-0.0	-0.0	-0.1	-0.0	-0.7	-0.1
Minimum price 30p	-2	-0.0	-0.0	-0.1	-0.0	-16	-0.2	-0.0	-0.4	-0.4	-0.0	-0.1	-0.1	-0.2	-0.0	-1.6	-0.2
Minimum price 35p	-5	-0.0	-0.1	-0.1	-0.0	-33	-0.3	-0.1	-0.8	-0.9	-0.1	-0.1	-0.3	-0.4	-0.0	-3.1	-0.3
Minimum price 40p	-9	-0.1	-0.1	-0.3	-0.1	-65	-0.7	-0.1	-1.5	-1.6	-0.1	-0.2	-0.4	-0.7	-0.0	-5.3	-0.6
Minimum price 45p	-16	-0.1	-0.2	-0.4	-0.1	-111	-1.1	-0.2	-2.4	-2.8	-0.1	-0.3	-0.7	-1.1	-0.0	-8.3	-0.9
Minimum price 50p	-24	-0.2	-0.3	-0.6	-0.1	-165	-1.6	-0.3	-3.6	-4.1	-0.2	-0.4	-0.9	-1.5	-0.0	-11.8	-1.2
Minimum price 55p	-33	-0.2	-0.4	-0.9	-0.2	-226	-2.1	-0.4	-4.8	-5.6	-0.3	-0.6	-1.2	-2.0	-0.0	-15.7	-1.6
Minimum price 60p	-43	-0.3	-0.5	-1.1	-0.2	-288	-2.7	-0.5	-6.0	-7.0	-0.3	-0.7	-1.5	-2.6	-0.0	-19.8	-2.0
Minimum price 65p	-51	-0.3	-0.6	-1.3	-0.3	-341	-3.1	-0.6	-7.0	-8.3	-0.4	-0.8	-1.8	-3.0	-0.0	-23.3	-2.2
Minimum price 70p	-59	-0.3	-0.7	-1.5	-0.3	-395	-3.5	-0.7	-8.0	-9.6	-0.4	-1.0	-2.1	-3.5	-0.0	-26.9	-2.5
Total off-trade discount ban	-10	-0.1	-0.1	-0.3	-0.0	-67	-0.7	-0.1	-1.5	-1.6	-0.1	-0.1	-0.3	-0.5	-0.0	-4.0	-0.4
Minimum price 25p + total off-t discount ban	-11	-0.1	-0.1	-0.3	-0.1	-74	-0.7	-0.1	-1.6	-1.8	-0.1	-0.2	-0.3	-0.6	-0.0	-4.6	-0.5
Minimum price 30p + total off-t discount ban	-12	-0.1	-0.1	-0.3	-0.1	-80	-0.8	-0.1	-1.8	-2.0	-0.1	-0.2	-0.4	-0.7	-0.0	-5.3	-0.6
Minimum price 35p + total off-t discount ban	-14	-0.1	-0.2	-0.4	-0.1	-94	-0.9	-0.2	-2.0	-2.3	-0.1	-0.2	-0.5	-0.8	-0.0	-6.5	-0.7
Minimum price 40p + total off-t discount ban	-17	-0.1	-0.2	-0.5	-0.1	-118	-1.1	-0.2	-2.6	-2.9	-0.1	-0.3	-0.6	-1.1	-0.0	-8.3	-0.9
Minimum price 45p + total off-t discount ban	-22	-0.1	-0.3	-0.6	-0.1	-154	-1.5	-0.3	-3.3	-3.8	-0.2	-0.4	-0.8	-1.4	-0.0	-10.8	-1.1
Minimum price 50p + total off-t discount ban	-29	-0.2	-0.3	-0.8	-0.1	-199	-1.9	-0.3	-4.2	-4.9	-0.2	-0.5	-1.1	-1.8	-0.0	-13.7	-1.4
Minimum price 55p + total off-t discount ban	-37	-0.2	-0.4	-1.0	-0.2	-251	-2.3	-0.4	-5.2	-6.2	-0.3	-0.6	-1.3	-2.2	-0.0	-17.3	-1.7
Minimum price 60p + total off-t discount ban	-45	-0.3	-0.5	-1.2	-0.2	-306	-2.8	-0.5	-6.3	-7.5	-0.3	-0.7	-1.6	-2.7	-0.0	-21.0	-2.0
Minimum price 65p + total off-t discount ban	-53	-0.3	-0.6	-1.4	-0.3	-356	-3.2	-0.6	-7.2	-8.7	-0.4	-0.9	-1.9	-3.1	-0.0	-24.3	-2.3
Minimum price 70p + total off-t discount ban	-61	-0.4	-0.7	-1.5	-0.3	-407	-3.6	-0.7	-8.2	-9.9	-0.5	-1.0	-2.1	-3.6	-0.0	-27.8	-2.5

Table A12.8: Summary tables for sensitivity analysis – Nielsen-based preference for off-trade – 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 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																
Minimum price 25p	+0.3	-1	-1	-2.5	-2.4	+8	-1	-1.6	+1	-1	-1	-21	-21	+3	-1	-19
Minimum price 30p	+0.1	-2	-2	-5.1	-5.5	+2	-2	-5.5	-3	-2	-2	-43	-49	-15	-2	-65
Minimum price 35p	-0.6	-5	-5	-9.5	-11.0	-1.5	-4	-12.9	-13	-4	-4	-79	-99	-57	-4	-160
Minimum price 40p	-1.8	-9	-9	-15.6	-19.2	-4.7	-7	-24.6	-33	-8	-8	-130	-178	-144	-7	-328
Minimum price 45p	-3.4	-1.6	-1.6	-23.2	-29.7	-8.8	-1.2	-39.8	-62	-13	-13	-193	-281	-270	-11	-562
Minimum price 50p	-5.5	-2.4	-2.5	-31.7	-42.1	-14.3	-1.8	-58.1	-99	-20	-20	-264	-403	-429	-17	-848
Minimum price 55p	-8.0	-3.4	-3.6	-40.7	-55.7	-20.8	-2.5	-79.0	-142	-28	-30	-339	-538	-618	-23	-1,179
Minimum price 60p	-10.8	-4.5	-4.7	-48.8	-68.8	-27.8	-3.4	-100.0	-188	-37	-39	-406	-670	-817	-31	-1,518
Minimum price 65p	-13.5	-5.6	-5.9	-54.7	-79.7	-34.8	-4.2	-118.8	-232	-47	-49	-455	-783	-1,007	-39	-1,829
Minimum price 70p	-16.2	-6.7	-7.1	-60.5	-90.6	-42.1	-5.0	-137.7	-278	-56	-59	-503	-896	-1,201	-47	-2,143
Total off-trade discount ban	-2.9	-1.2	-1.4	-10.8	-16.4	-7.7	-9	-25.0	-50	-10	-11	-90	-162	-220	-9	-390
Minimum price 25p + total off-t discount ban	-3.1	-1.3	-1.5	-12.9	-18.8	-8.0	-1.0	-27.9	-53	-11	-12	-108	-184	-231	-9	-424
Minimum price 30p + total off-t discount ban	-3.2	-1.4	-1.6	-15.0	-21.2	-8.5	-1.1	-30.8	-56	-12	-13	-125	-206	-244	-10	-460
Minimum price 35p + total off-t discount ban	-3.6	-1.6	-1.8	-18.3	-25.3	-9.4	-1.2	-35.9	-62	-14	-15	-152	-243	-272	-11	-526
Minimum price 40p + total off-t discount ban	-4.4	-2.0	-2.1	-23.0	-31.5	-11.6	-1.5	-44.5	-77	-16	-18	-191	-302	-336	-14	-652
Minimum price 45p + total off-t discount ban	-5.7	-2.4	-2.7	-28.9	-39.7	-14.9	-1.8	-56.5	-100	-20	-22	-241	-383	-437	-17	-837
Minimum price 50p + total off-t discount ban	-7.4	-3.1	-3.4	-35.9	-49.9	-19.3	-2.3	-71.5	-130	-26	-28	-299	-483	-566	-21	-1,070
Minimum price 55p + total off-t discount ban	-9.6	-4.0	-4.3	-43.7	-61.5	-24.9	-2.9	-89.4	-167	-33	-36	-363	-599	-726	-27	-1,352
Minimum price 60p + total off-t discount ban	-12.0	-4.9	-5.3	-50.7	-73.0	-31.1	-3.7	-107.8	-207	-41	-44	-422	-715	-902	-34	-1,650
Minimum price 65p + total off-t discount ban	-14.5	-6.0	-6.4	-56.2	-83.0	-37.6	-4.5	-125.1	-248	-50	-53	-467	-818	-1,077	-41	-1,936
Minimum price 70p + total off-t discount ban	-17.1	-7.0	-7.5	-61.7	-93.4	-44.4	-5.3	-143.1	-292	-59	-63	-513	-926	-1,260	-49	-2,235

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

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SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
					Total value of harm reduction incl. QALYs								Total value of harm reduction incl. QALYs			
	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																
Minimum price 25p	+0.3	-0	-0	+0	+3	+9	-0	+1.3	+3	-	-	+	+3	+11	-	+14
Minimum price 30p	+0.3	-0	-0	+0	+2	+8	-0	+1.0	+3	-	-	+	+2	+8	-	+10
Minimum price 35p	+0.1	-0	-1	+0	-0	+2	-0	+1	+1	-	-1	+	-	-2	-	-3
Minimum price 40p	-0.3	-1	-2	+0	-5	-8	-1	-1.4	-3	-1	-1	+	-5	-21	-1	-27
Minimum price 45p	-0.7	-2	-4	+0	-1.2	-1.8	-2	-3.2	-7	-2	-3	+	-12	-45	-2	-59
Minimum price 50p	-1.2	-4	-6	+0	-2.2	-3.2	-4	-5.8	-13	-4	-5	+	-22	-76	-3	-101
Minimum price 55p	-1.8	-7	-1.0	+0	-3.5	-4.9	-6	-9.0	-20	-6	-8	+	-34	-114	-6	-154
Minimum price 60p	-2.5	-1.0	-1.4	+0	-5.0	-6.9	-9	-12.7	-28	-8	-12	+	-48	-156	-8	-212
Minimum price 65p	-3.3	-1.3	-1.9	+0	-6.5	-9.0	-1.1	-16.7	-37	-11	-16	+	-64	-199	-11	-274
Minimum price 70p	-4.2	-1.7	-2.4	+0	-8.3	-11.4	-1.5	-21.1	-47	-14	-20	+	-81	-245	-13	-339
Total off-trade discount ban	-0.8	-4	-5	+0	-1.7	-2.3	-3	-4.4	-9	-3	-4	+	-17	-48	-3	-67
Minimum price 25p + total off-t discount ban	-0.8	-4	-6	+0	-1.8	-2.3	-3	-4.4	-9	-3	-5	+	-17	-48	-3	-68
Minimum price 30p + total off-t discount ban	-0.8	-4	-6	+0	-1.8	-2.4	-3	-4.5	-9	-3	-5	+	-17	-50	-3	-70
Minimum price 35p + total off-t discount ban	-0.9	-4	-6	+0	-1.9	-2.5	-3	-4.7	-10	-3	-5	+	-18	-54	-3	-75
Minimum price 40p + total off-t discount ban	-1.1	-4	-7	+0	-2.2	-3.0	-4	-5.5	-12	-4	-6	+	-21	-65	-3	-90
Minimum price 45p + total off-t discount ban	-1.4	-5	-8	+0	-2.7	-3.7	-4	-6.9	-15	-4	-7	+	-26	-84	-4	-114
Minimum price 50p + total off-t discount ban	-1.8	-7	-1.0	+0	-3.5	-4.8	-6	-8.9	-20	-6	-9	+	-34	-109	-5	-148
Minimum price 55p + total off-t discount ban	-2.3	-9	-1.3	+0	-4.5	-6.3	-8	-11.6	-26	-7	-11	+	-44	-141	-7	-192
Minimum price 60p + total off-t discount ban	-2.9	-1.1	-1.7	+0	-5.8	-8.0	-1.0	-14.7	-33	-10	-14	+	-56	-177	-9	-242
Minimum price 65p + total off-t discount ban	-3.7	-1.5	-2.1	+0	-7.2	-10.0	-1.2	-18.4	-41	-12	-17	+	-70	-217	-11	-299
Minimum price 70p + total off-t discount ban	-4.5	-1.8	-2.6	+0	-8.8	-12.2	-1.5	-22.6	-50	-15	-21	+	-86	-260	-14	-360

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HAZARDOUS	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	+0.1	-0	-0	+0	+0	+2	-0	+2	+	-	-	+	+	+1	-	+1
Minimum price 30p	+0.0	-1	-0	+0	-1	+1	-1	-1	-	-1	-	+	-1	-2	-	-3
Minimum price 35p	-0.1	-1	-1	+0	-3	-3	-1	-8	-2	-1	-1	+	-4	-12	-1	-17
Minimum price 40p	-0.5	-3	-2	+0	-1.0	-1.3	-2	-2.4	-9	-2	-2	+	-13	-40	-2	-55
Minimum price 45p	-1.1	-5	-4	+0	-2.0	-2.8	-4	-5.1	-20	-4	-3	+	-27	-87	-3	-117
Minimum price 50p	-1.9	-7	-7	+0	-3.3	-4.8	-6	-8.6	-34	-6	-6	+	-46	-149	-5	-200
Minimum price 55p	-2.9	-1.0	-1.0	+0	-4.9	-7.3	-8	-13.0	-52	-8	-9	+	-69	-225	-7	-302
Minimum price 60p	-4.0	-1.4	-1.4	+0	-6.8	-10.0	-1.1	-17.9	-72	-11	-12	+	-95	-308	-10	-413
Minimum price 65p	-5.1	-1.7	-1.8	+0	-8.7	-12.8	-1.4	-22.9	-91	-14	-15	+	-121	-391	-13	-524
Minimum price 70p	-6.2	-2.1	-2.2	+0	-10.5	-15.6	-1.6	-27.7	-111	-17	-19	+	-147	-472	-15	-634
Total off-trade discount ban	-1.1	-4	-5	+0	-2.0	-2.9	-3	-5.3	-21	-3	-4	+	-28	-90	-3	-120
Minimum price 25p + total off-t discount ban	-1.2	-4	-5	+0	-2.1	-3.0	-4	-5.4	-21	-4	-4	+	-28	-91	-3	-123
Minimum price 30p + total off-t discount ban	-1.2	-5	-5	+0	-2.2	-3.1	-4	-5.6	-21	-4	-4	+	-30	-94	-3	-127
Minimum price 35p + total off-t discount ban	-1.3	-5	-5	+0	-2.4	-3.3	-4	-6.1	-23	-4	-5	+	-32	-102	-4	-138
Minimum price 40p + total off-t discount ban	-1.6	-6	-6	+0	-2.8	-4.0	-5	-7.4	-28	-5	-5	+	-39	-124	-4	-167
Minimum price 45p + total off-t discount ban	-2.1	-8	-8	+0	-3.6	-5.3	-6	-9.5	-37	-6	-7	+	-50	-162	-5	-218
Minimum price 50p + total off-t discount ban	-2.7	-1.0	-1.0	+0	-4.7	-6.9	-7	-12.3	-49	-8	-8	+	-65	-212	-7	-285
Minimum price 55p + total off-t discount ban	-3.6	-1.2	-1.3	+0	-6.1	-9.0	-9	-16.1	-64	-10	-11	+	-85	-277	-9	-370
Minimum price 60p + total off-t discount ban	-4.5	-1.5	-1.7	+0	-7.7	-11.4	-1.2	-20.3	-81	-13	-14	+	-108	-349	-11	-468
Minimum price 65p + total off-t discount ban	-5.6	-1.9	-2.0	+0	-9.4	-14.0	-1.5	-24.9	-100	-16	-17	+	-132	-424	-13	-570
Minimum price 70p + total off-t discount ban	-6.6	-2.2	-2.4	+0	-11.2	-16.7	-1.7	-29.5	-118	-18	-20	+	-156	-502	-16	-674

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

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HARMFUL	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	-0.1	-.1	-.1	-2.5	-2.7	-.3	-.0	-3.1	-2	-	-1	-21	-24	-10	-	-35
Minimum price 30p	-0.3	-.2	-.2	-5.1	-5.7	-.7	-.1	-6.5	-5	-1	-1	-43	-51	-21	-1	-72
Minimum price 35p	-0.5	-.3	-.3	-9.5	-10.7	-1.4	-.2	-12.3	-11	-3	-3	-79	-95	-43	-2	-140
Minimum price 40p	-1.0	-.6	-.5	-15.6	-17.7	-2.6	-.4	-20.7	-21	-5	-4	-130	-160	-82	-4	-246
Minimum price 45p	-1.7	-.9	-.8	-23.2	-26.5	-4.3	-.6	-31.4	-35	-7	-7	-193	-241	-138	-6	-385
Minimum price 50p	-2.4	-1.2	-1.1	-31.7	-36.5	-6.3	-.8	-43.6	-51	-10	-9	-264	-334	-204	-8	-546
Minimum price 55p	-3.3	-1.6	-1.5	-40.7	-47.1	-8.5	-1.1	-56.7	-69	-13	-13	-339	-434	-278	-10	-722
Minimum price 60p	-4.2	-2.0	-1.9	-48.8	-56.9	-10.8	-1.4	-69.0	-87	-17	-16	-406	-526	-352	-13	-890
Minimum price 65p	-5.0	-2.4	-2.2	-54.7	-64.3	-12.8	-1.6	-78.7	-103	-20	-18	-455	-596	-416	-15	-1,027
Minimum price 70p	-5.8	-2.7	-2.5	-60.5	-71.5	-14.9	-1.8	-88.3	-119	-23	-21	-503	-666	-481	-17	-1,164
Total off-trade discount ban	-0.9	-.4	-.4	-10.8	-12.5	-2.4	-.3	-15.1	-21	-3	-3	-90	-117	-82	-2	-201
Minimum price 25p + total off-t discount ban	-1.0	-.4	-.4	-12.9	-14.9	-2.7	-.3	-17.8	-23	-4	-4	-108	-138	-90	-3	-231
Minimum price 30p + total off-t discount ban	-1.2	-.5	-.5	-15.0	-17.2	-3.0	-.3	-20.5	-25	-4	-4	-125	-158	-99	-3	-261
Minimum price 35p + total off-t discount ban	-1.4	-.6	-.6	-18.3	-20.9	-3.5	-.4	-24.9	-29	-5	-5	-152	-192	-116	-4	-312
Minimum price 40p + total off-t discount ban	-1.7	-.8	-.8	-23.0	-26.4	-4.5	-.6	-31.4	-37	-7	-7	-191	-242	-147	-5	-394
Minimum price 45p + total off-t discount ban	-2.3	-1.1	-1.0	-28.9	-33.3	-5.8	-.7	-39.9	-48	-9	-9	-241	-306	-190	-7	-503
Minimum price 50p + total off-t discount ban	-2.9	-1.4	-1.3	-35.9	-41.5	-7.5	-.9	-50.0	-61	-12	-11	-299	-382	-244	-9	-635
Minimum price 55p + total off-t discount ban	-3.7	-1.7	-1.6	-43.7	-50.7	-9.5	-1.2	-61.4	-77	-14	-14	-363	-468	-308	-11	-787
Minimum price 60p + total off-t discount ban	-4.5	-2.1	-2.0	-50.7	-59.3	-11.5	-1.4	-72.2	-93	-18	-17	-422	-549	-374	-13	-936
Minimum price 65p + total off-t discount ban	-5.2	-2.4	-2.3	-56.2	-66.1	-13.4	-1.6	-81.1	-107	-20	-19	-467	-614	-434	-15	-1,063
Minimum price 70p + total off-t discount ban	-6.0	-2.8	-2.6	-61.7	-73.1	-15.4	-1.9	-90.3	-122	-23	-22	-513	-680	-496	-17	-1,194

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

Appendix 13: Summary tables for sensitivity analysis – SHeS Revised for Under-Recording

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.
Policy Scenario														
Minimum price 25p	-0.2%	-3.8	+1.1	+0.2	+0.0	-2.5	+7.6	+3.7	-0.7	+1.3	+11.9	+0.3%	+3.00	+2.26
Minimum price 30p	-0.5%	-8.1	+1.9	+0.3	+0.0	-5.9	+15.4	+8.0	-1.9	+2.8	+24.3	+0.6%	+6.14	+5.11
Minimum price 35p	-1.0%	-14.3	+2.5	-1.4	+0.0	-13.1	+30.0	+15.1	-5.4	+5.2	+44.9	+1.2%	+11.32	+11.35
Minimum price 40p	-2.2%	-21.2	+1.5	-8.5	+0.1	-28.1	+57.2	+26.0	-13.8	+9.0	+78.4	+2.0%	+19.78	+24.41
Minimum price 45p	-4.1%	-29.1	-3.3	-18.7	+0.1	-51.1	+93.4	+40.0	-27.2	+13.9	+120.0	+3.1%	+30.28	+44.72
Minimum price 50p	-6.4%	-38.3	-11.2	-30.9	+0.1	-80.2	+131.7	+55.4	-45.1	+19.2	+161.2	+4.2%	+40.68	+70.49
Minimum price 55p	-9.2%	-48.4	-22.2	-44.4	+0.2	-114.9	+167.9	+72.2	-67.6	+25.1	+197.5	+5.1%	+49.83	+101.10
Minimum price 60p	-12.1%	-58.5	-35.0	-59.0	+0.2	-152.3	+197.1	+89.8	-93.6	+31.1	+224.4	+5.8%	+56.61	+134.60
Minimum price 65p	-15.1%	-65.3	-49.4	-74.5	+0.2	-189.0	+221.6	+108.4	-120.4	+37.4	+247.1	+6.4%	+62.33	+170.50
Minimum price 70p	-18.1%	-71.9	-64.8	-90.4	+0.2	-226.9	+235.3	+128.8	-150.0	+43.9	+258.1	+6.7%	+65.11	+208.36
Total off-trade discount ban	-3.0%	-10.8	-20.0	-6.8	-0.3	-37.9	+77.4	+15.0	-15.7	+5.3	+81.9	+2.1%	+20.67	+37.49
Minimum price 25p + total off-t discount ban	-3.2%	-14.2	-19.2	-6.6	-0.3	-40.2	+83.3	+18.3	-16.5	+6.4	+91.4	+2.4%	+23.06	+39.47
Minimum price 30p + total off-t discount ban	-3.4%	-17.5	-18.6	-6.6	-0.3	-43.0	+88.9	+21.7	-17.7	+7.5	+100.4	+2.6%	+25.34	+41.75
Minimum price 35p + total off-t discount ban	-3.9%	-22.1	-18.3	-8.2	-0.3	-48.9	+99.5	+27.4	-20.8	+9.5	+115.6	+3.0%	+29.17	+46.62
Minimum price 40p + total off-t discount ban	-4.9%	-27.2	-19.4	-14.7	-0.2	-61.5	+120.1	+36.8	-28.5	+12.8	+141.2	+3.7%	+35.62	+57.26
Minimum price 45p + total off-t discount ban	-6.4%	-33.2	-23.2	-23.9	-0.2	-80.5	+146.0	+48.9	-40.6	+17.0	+171.3	+4.4%	+43.22	+73.62
Minimum price 50p + total off-t discount ban	-8.4%	-40.7	-29.2	-34.8	-0.2	-104.9	+172.6	+62.6	-56.9	+21.8	+200.1	+5.2%	+50.48	+94.69
Minimum price 55p + total off-t discount ban	-10.7%	-49.8	-37.9	-47.0	-0.2	-134.9	+197.4	+78.0	-77.7	+27.1	+224.7	+5.8%	+56.70	+120.69
Minimum price 60p + total off-t discount ban	-13.4%	-59.0	-48.5	-60.7	-0.1	-168.4	+217.5	+94.4	-102.2	+32.8	+242.5	+6.3%	+61.17	+150.34
Minimum price 65p + total off-t discount ban	-16.1%	-65.4	-61.3	-75.7	-0.1	-202.4	+235.4	+112.4	-128.2	+38.8	+258.3	+6.7%	+65.17	+183.67
Minimum price 70p + total off-t discount ban	-19.0%	-71.7	-75.4	-91.4	-0.1	-238.6	+244.0	+132.2	-157.4	+45.1	+264.0	+6.8%	+66.59	+219.72

Table A13.1: Summary tables for sensitivity analysis – SHeS revised for under-recording – 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.
Minimum price 25p	+0.0%	-0.3	+0.2	+0.2	+0.0	+0.1	+1.1	+1.1	+0.1	+0.4	+2.7	+0.2%	+1.01	+0.41
Minimum price 30p	-0.0%	-0.5	+0.1	+0.3	+0.0	-0.1	+2.1	+2.2	+0.1	+0.7	+5.1	+0.3%	+1.92	+0.94
Minimum price 35p	-0.2%	-0.9	-0.2	+0.1	+0.0	-1.0	+4.6	+3.8	-0.2	+1.3	+9.4	+0.6%	+3.57	+2.32
Minimum price 40p	-0.7%	-1.2	-1.0	-1.9	+0.0	-4.1	+10.5	+6.0	-1.2	+2.0	+17.3	+1.2%	+6.56	+5.97
Minimum price 45p	-1.6%	-1.7	-3.0	-4.8	+0.0	-9.5	+19.6	+8.9	-2.9	+3.0	+28.5	+1.9%	+10.80	+12.21
Minimum price 50p	-2.9%	-2.6	-6.0	-8.2	+0.1	-16.8	+30.9	+12.2	-5.3	+4.1	+41.8	+2.8%	+15.83	+20.77
Minimum price 55p	-4.4%	-3.6	-10.1	-12.2	+0.1	-26.0	+43.7	+15.8	-8.4	+5.3	+56.4	+3.8%	+21.35	+31.53
Minimum price 60p	-6.2%	-4.8	-14.8	-16.9	+0.1	-36.4	+56.3	+19.7	-12.1	+6.6	+70.4	+4.7%	+26.66	+43.77
Minimum price 65p	-8.2%	-6.1	-19.9	-21.9	+0.1	-47.8	+67.8	+23.9	-16.7	+7.9	+82.9	+5.5%	+31.37	+57.17
Minimum price 70p	-10.3%	-7.6	-25.3	-27.2	+0.1	-60.0	+77.3	+28.5	-21.9	+9.3	+93.2	+6.2%	+35.29	+71.50
Total off-trade discount ban	-1.9%	-1.4	-7.4	-2.4	-0.1	-11.2	+21.8	+3.5	-2.2	+1.2	+24.3	+1.6%	+9.20	+14.64
Minimum price 25p + total off-t discount ban	-1.9%	-1.7	-7.2	-2.2	-0.1	-11.2	+22.7	+4.5	-2.1	+1.5	+26.6	+1.8%	+10.06	+15.00
Minimum price 30p + total off-t discount ban	-1.9%	-1.9	-7.3	-2.1	-0.1	-11.3	+23.5	+5.3	-2.1	+1.8	+28.5	+1.9%	+10.79	+15.44
Minimum price 35p + total off-t discount ban	-2.1%	-2.1	-7.6	-2.4	-0.1	-12.1	+25.4	+6.6	-2.4	+2.2	+31.9	+2.1%	+12.08	+16.54
Minimum price 40p + total off-t discount ban	-2.5%	-2.3	-8.2	-4.2	-0.0	-14.8	+30.2	+8.6	-3.3	+2.9	+38.3	+2.6%	+14.49	+19.59
Minimum price 45p + total off-t discount ban	-3.3%	-2.6	-9.9	-6.8	-0.0	-19.2	+37.0	+11.1	-4.9	+3.7	+46.8	+3.1%	+17.73	+24.63
Minimum price 50p + total off-t discount ban	-4.3%	-3.1	-12.2	-9.8	-0.0	-25.2	+45.2	+14.0	-7.1	+4.7	+56.7	+3.8%	+21.47	+31.48
Minimum price 55p + total off-t discount ban	-5.6%	-4.0	-15.4	-13.4	-0.0	-32.8	+54.7	+17.3	-10.0	+5.8	+67.7	+4.5%	+25.64	+40.37
Minimum price 60p + total off-t discount ban	-7.2%	-5.0	-19.3	-17.6	+0.0	-41.9	+64.5	+20.9	-13.5	+7.0	+78.8	+5.3%	+29.82	+50.95
Minimum price 65p + total off-t discount ban	-9.0%	-6.2	-23.8	-22.5	+0.0	-52.4	+73.9	+24.9	-18.0	+8.2	+89.0	+5.9%	+33.70	+63.22
Minimum price 70p + total off-t discount ban	-10.9%	-7.6	-28.7	-27.7	+0.0	-64.0	+81.8	+29.4	-23.2	+9.6	+97.7	+6.5%	+36.97	+76.72

Table A13.2: Summary tables for sensitivity analysis – SHeS revised for under-recording – 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 if no change in consump.
Minimum price 25p	-0.0%	-3.4	+2.4	+0.4	+0.0	-0.6	+2.3	+1.5	+0.2	+0.5	+4.5	+0.4%	+5.52	+2.93
Minimum price 30p	-0.1%	-7.0	+4.5	+0.5	+0.0	-2.0	+5.0	+3.3	+0.2	+1.1	+9.6	+0.8%	+11.84	+6.84
Minimum price 35p	-0.4%	-12.1	+6.4	-2.5	+0.1	-8.1	+9.8	+6.2	-0.3	+2.1	+17.9	+1.5%	+21.96	+15.55
Minimum price 40p	-1.3%	-17.4	+5.0	-14.2	+0.1	-26.6	+19.1	+10.7	-2.5	+3.6	+30.9	+2.6%	+38.01	+35.25
Minimum price 45p	-2.9%	-23.6	-4.7	-31.9	+0.1	-60.0	+31.8	+16.4	-6.7	+5.6	+47.1	+3.9%	+57.89	+67.99
Minimum price 50p	-5.1%	-30.8	-20.8	-53.6	+0.1	-105.0	+45.4	+22.6	-12.6	+7.8	+63.3	+5.2%	+77.84	+110.31
Minimum price 55p	-7.9%	-39.2	-44.2	-77.7	+0.2	-160.9	+58.7	+29.4	-20.3	+10.1	+78.0	+6.5%	+95.90	+161.36
Minimum price 60p	-10.9%	-48.3	-71.0	-103.7	+0.2	-222.9	+69.2	+36.4	-29.4	+12.6	+88.8	+7.4%	+109.20	+217.18
Minimum price 65p	-14.0%	-54.3	-101.4	-131.4	+0.2	-287.0	+77.0	+43.9	-39.5	+15.1	+96.6	+8.0%	+118.80	+277.40
Minimum price 70p	-17.2%	-58.3	-133.7	-160.0	+0.1	-351.9	+81.4	+51.9	-50.3	+17.7	+100.8	+8.3%	+123.94	+340.66
Total off-trade discount ban	-3.2%	-10.8	-40.7	-13.0	-0.2	-64.8	+25.5	+5.9	-6.2	+2.1	+27.4	+2.3%	+33.71	+62.92
Minimum price 25p + total off-t discount ban	-3.2%	-13.9	-38.9	-12.7	-0.2	-65.6	+27.4	+7.3	-6.1	+2.6	+31.1	+2.6%	+38.30	+65.54
Minimum price 30p + total off-t discount ban	-3.3%	-16.7	-37.6	-12.7	-0.2	-67.2	+29.4	+8.7	-6.1	+3.0	+35.0	+2.9%	+43.03	+68.72
Minimum price 35p + total off-t discount ban	-3.5%	-20.4	-36.5	-15.5	-0.1	-72.6	+33.1	+11.1	-6.7	+3.8	+41.4	+3.4%	+50.88	+75.69
Minimum price 40p + total off-t discount ban	-4.3%	-23.7	-38.2	-26.3	-0.1	-88.3	+40.3	+15.0	-8.7	+5.2	+51.7	+4.3%	+63.63	+91.91
Minimum price 45p + total off-t discount ban	-5.7%	-27.7	-45.9	-42.0	-0.1	-115.7	+49.6	+19.9	-12.5	+6.9	+63.9	+5.3%	+78.55	+118.26
Minimum price 50p + total off-t discount ban	-7.5%	-33.3	-58.1	-61.2	-0.1	-152.7	+59.1	+25.4	-17.7	+8.8	+75.6	+6.3%	+92.98	+152.64
Minimum price 55p + total off-t discount ban	-9.8%	-40.5	-76.5	-82.8	-0.1	-199.9	+68.2	+31.6	-24.7	+10.9	+86.0	+7.1%	+105.75	+195.59
Minimum price 60p + total off-t discount ban	-12.5%	-48.8	-98.6	-107.2	-0.1	-254.7	+75.2	+38.2	-33.3	+13.2	+93.4	+7.7%	+114.88	+244.65
Minimum price 65p + total off-t discount ban	-15.4%	-54.2	-125.6	-134.0	-0.1	-313.9	+80.6	+45.4	-43.0	+15.7	+98.6	+8.2%	+121.31	+300.30
Minimum price 70p + total off-t discount ban	-18.4%	-57.9	-155.3	-162.2	-0.1	-375.5	+83.0	+53.2	-53.7	+18.2	+100.8	+8.3%	+123.93	+360.38

Table A13.3: Summary tables for sensitivity analysis – SHeS revised for under-recording – consumption analysis – hazardous drinkers

SUMMARY - HARMFUL	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.
Minimum price 25p	-0.6%	-32.0	+5.0	-0.0	+0.0	-27.0	+4.2	+1.1	-0.9	+0.4	+4.8	+0.4%	+13.03	+15.04
Minimum price 30p	-1.2%	-68.5	+10.0	-0.2	+0.1	-58.6	+8.3	+2.5	-2.2	+0.9	+9.6	+0.9%	+26.40	+33.48
Minimum price 35p	-2.5%	-121.8	+14.8	-10.6	+0.2	-117.5	+15.5	+5.1	-4.9	+1.8	+17.5	+1.6%	+48.04	+71.79
Minimum price 40p	-4.6%	-182.6	+12.9	-46.9	+0.3	-216.3	+27.5	+9.2	-10.0	+3.3	+30.0	+2.8%	+82.27	+143.08
Minimum price 45p	-7.5%	-251.0	-3.5	-97.6	+0.4	-351.6	+41.8	+14.6	-17.5	+5.2	+44.0	+4.0%	+120.76	+244.96
Minimum price 50p	-10.9%	-328.1	-30.4	-156.2	+0.6	-514.1	+54.8	+20.5	-27.2	+7.3	+55.4	+5.1%	+152.03	+367.60
Minimum price 55p	-14.9%	-412.5	-68.3	-219.6	+0.8	-699.6	+64.7	+26.7	-38.9	+9.5	+62.1	+5.7%	+170.32	+506.99
Minimum price 60p	-18.9%	-492.5	-113.2	-286.8	+1.0	-891.5	+70.6	+33.2	-51.9	+11.8	+63.8	+5.8%	+174.89	+656.29
Minimum price 65p	-22.6%	-543.1	-164.4	-355.8	+1.2	-1062.1	+75.4	+40.2	-64.0	+14.2	+65.8	+6.0%	+180.53	+813.15
Minimum price 70p	-26.4%	-595.0	-219.6	-426.1	+0.4	-1240.3	+75.1	+47.7	-77.4	+16.6	+62.0	+5.7%	+170.10	+977.70
Total off-trade discount ban	-3.9%	-82.7	-71.9	-26.9	-2.2	-183.7	+29.5	+5.5	-7.4	+1.9	+29.5	+2.7%	+80.96	+158.31
Minimum price 25p + total off-t discount ban	-4.4%	-110.5	-68.0	-27.1	-2.2	-207.8	+32.6	+6.4	-8.3	+2.3	+33.0	+3.0%	+90.48	+171.36
Minimum price 30p + total off-t discount ban	-5.0%	-139.2	-64.6	-27.5	-2.2	-233.5	+35.4	+7.5	-9.4	+2.7	+36.2	+3.3%	+99.32	+185.87
Minimum price 35p + total off-t discount ban	-6.0%	-179.8	-61.6	-37.1	-2.1	-280.7	+40.4	+9.6	-11.8	+3.4	+41.6	+3.8%	+114.05	+215.27
Minimum price 40p + total off-t discount ban	-7.7%	-226.4	-64.0	-70.5	-2.0	-362.8	+49.0	+13.1	-16.4	+4.7	+50.3	+4.6%	+138.05	+272.40
Minimum price 45p + total off-t discount ban	-10.1%	-280.3	-77.1	-116.1	-1.9	-475.4	+58.7	+17.7	-23.2	+6.4	+59.6	+5.5%	+163.52	+354.47
Minimum price 50p + total off-t discount ban	-13.0%	-345.4	-97.6	-169.3	-1.7	-614.1	+67.3	+23.0	-31.9	+8.2	+66.6	+6.1%	+182.59	+456.48
Minimum price 55p + total off-t discount ban	-16.5%	-421.6	-127.7	-227.7	-1.5	-778.6	+73.4	+28.7	-42.9	+10.3	+69.6	+6.4%	+190.83	+577.63
Minimum price 60p + total off-t discount ban	-20.3%	-496.2	-164.8	-291.4	-1.4	-953.7	+76.5	+34.9	-55.2	+12.4	+68.6	+6.3%	+188.08	+712.39
Minimum price 65p + total off-t discount ban	-23.7%	-543.8	-210.1	-359.0	-1.2	-1114.1	+79.3	+41.6	-67.0	+14.7	+68.7	+6.3%	+188.31	+860.02
Minimum price 70p + total off-t discount ban	-27.3%	-594.1	-260.9	-428.7	-1.7	-1285.5	+77.4	+49.0	-80.2	+17.1	+63.2	+5.8%	+173.44	+1018.12

Table A13.4: Summary tables for sensitivity analysis – SHeS revised for under-recording – 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.	
	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)
Minimum price 25p	-0	-0.0	+0.0	+0.0	+0.0	-7	-0.1	+0.0	-0.1	-0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-1.5	-0.2
Minimum price 30p	-2	-0.0	-0.0	-0.0	-0.0	-17	-0.2	+0.0	-0.4	-0.4	-0.1	-0.1	-0.2	-0.4	-0.0	-3.4	-0.4
Minimum price 35p	-8	-0.0	-0.1	-0.2	-0.1	-48	-0.5	-0.1	-1.2	-1.5	-0.1	-0.2	-0.4	-0.8	-0.0	-7.6	-0.8
Minimum price 40p	-24	-0.1	-0.4	-0.7	-0.1	-131	-1.2	-0.4	-3.0	-4.1	-0.2	-0.5	-0.9	-1.6	-0.0	-15.9	-1.5
Minimum price 45p	-48	-0.2	-0.8	-1.3	-0.3	-264	-2.4	-0.8	-5.7	-8.0	-0.4	-0.9	-1.5	-2.8	-0.0	-28.6	-2.4
Minimum price 50p	-79	-0.4	-1.2	-2.1	-0.5	-430	-3.8	-1.3	-9.2	-13.0	-0.7	-1.4	-2.4	-4.5	-0.0	-45.1	-3.6
Minimum price 55p	-115	-0.5	-1.8	-3.1	-0.7	-621	-5.4	-1.9	-13.0	-18.7	-1.0	-2.0	-3.4	-6.4	-0.1	-65.1	-4.9
Minimum price 60p	-154	-0.7	-2.4	-4.1	-0.9	-823	-7.1	-2.5	-17.1	-24.9	-1.3	-2.6	-4.6	-8.6	-0.1	-87.0	-6.2
Minimum price 65p	-192	-0.8	-3.0	-5.1	-1.1	-1017	-8.7	-3.2	-21.0	-30.8	-1.7	-3.3	-5.7	-10.7	-0.1	-108.7	-7.3
Minimum price 70p	-231	-1.0	-3.7	-6.1	-1.3	-1215	-10.4	-3.9	-25.0	-37.0	-2.0	-4.0	-6.9	-12.9	-0.1	-131.3	-8.4
Total off-trade discount ban	-39	-0.2	-0.6	-1.0	-0.2	-210	-1.8	-0.6	-4.4	-6.4	-0.4	-0.7	-1.2	-2.3	-0.0	-23.4	-1.4
Minimum price 25p + total off-t discount ban	-40	-0.2	-0.6	-1.1	-0.2	-217	-1.9	-0.7	-4.6	-6.6	-0.4	-0.8	-1.3	-2.4	-0.0	-24.7	-1.6
Minimum price 30p + total off-t discount ban	-42	-0.2	-0.7	-1.1	-0.2	-226	-2.0	-0.7	-4.8	-6.9	-0.4	-0.8	-1.4	-2.6	-0.0	-26.4	-1.8
Minimum price 35p + total off-t discount ban	-46	-0.2	-0.7	-1.3	-0.3	-251	-2.2	-0.8	-5.4	-7.7	-0.5	-0.9	-1.6	-2.9	-0.0	-29.8	-2.1
Minimum price 40p + total off-t discount ban	-59	-0.3	-0.9	-1.6	-0.4	-319	-2.8	-1.0	-6.8	-9.8	-0.6	-1.1	-1.9	-3.6	-0.0	-36.7	-2.6
Minimum price 45p + total off-t discount ban	-79	-0.3	-1.2	-2.1	-0.5	-426	-3.8	-1.3	-9.1	-13.0	-0.7	-1.4	-2.5	-4.6	-0.0	-47.1	-3.4
Minimum price 50p + total off-t discount ban	-104	-0.5	-1.6	-2.8	-0.6	-562	-4.9	-1.7	-11.8	-17.0	-0.9	-1.8	-3.2	-5.9	-0.1	-60.8	-4.4
Minimum price 55p + total off-t discount ban	-135	-0.6	-2.1	-3.6	-0.8	-725	-6.3	-2.2	-15.1	-22.0	-1.2	-2.3	-4.1	-7.6	-0.1	-77.9	-5.5
Minimum price 60p + total off-t discount ban	-169	-0.7	-2.7	-4.5	-1.0	-903	-7.8	-2.8	-18.7	-27.4	-1.5	-2.9	-5.1	-9.5	-0.1	-97.3	-6.7
Minimum price 65p + total off-t discount ban	-205	-0.9	-3.2	-5.4	-1.2	-1082	-9.3	-3.4	-22.3	-32.9	-1.8	-3.6	-6.1	-11.5	-0.1	-117.5	-7.7
Minimum price 70p + total off-t discount ban	-242	-1.0	-3.8	-6.4	-1.4	-1270	-10.8	-4.1	-26.1	-38.7	-2.1	-4.2	-7.3	-13.6	-0.1	-138.9	-8.7

Table A13.5: Summary tables for sensitivity analysis – SHeS revised for under-recording – 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																	
Minimum price 25p	+1	+0.0	+0.0	+0.1	+0.0	+1	+0.0	+0.1	+0.1	+0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	+0.0
Minimum price 30p	+1	+0.0	+0.0	+0.0	+0.0	+1	+0.0	+0.1	+0.1	+0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.2	+0.0
Minimum price 35p	-0	-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	-0.8	+0.0
Minimum price 40p	-3	-0.0	-0.1	-0.1	-0.0	-9	-0.1	-0.1	-0.3	-0.7	-0.0	-0.0	-0.1	-0.1	-0.0	-2.5	+0.0
Minimum price 45p	-8	-0.0	-0.2	-0.2	-0.1	-24	-0.2	-0.2	-0.6	-1.6	-0.1	-0.1	-0.2	-0.4	-0.0	-5.6	+0.0
Minimum price 50p	-15	-0.0	-0.3	-0.4	-0.1	-42	-0.4	-0.3	-1.2	-2.8	-0.1	-0.3	-0.4	-0.8	-0.0	-10.0	+0.0
Minimum price 55p	-23	-0.1	-0.5	-0.7	-0.2	-64	-0.7	-0.5	-1.8	-4.1	-0.2	-0.4	-0.6	-1.3	-0.0	-15.8	+0.0
Minimum price 60p	-31	-0.1	-0.7	-0.9	-0.2	-88	-0.9	-0.7	-2.4	-5.7	-0.3	-0.6	-0.9	-1.9	-0.0	-22.6	+0.0
Minimum price 65p	-41	-0.1	-0.9	-1.2	-0.3	-114	-1.2	-0.9	-3.2	-7.3	-0.4	-0.8	-1.2	-2.5	-0.0	-29.9	+0.0
Minimum price 70p	-51	-0.1	-1.1	-1.5	-0.4	-141	-1.5	-1.1	-4.0	-8.9	-0.6	-1.0	-1.6	-3.1	-0.0	-37.7	+0.0
Total off-trade discount ban	-9	-0.0	-0.2	-0.3	-0.1	-26	-0.3	-0.2	-0.7	-1.6	-0.1	-0.2	-0.3	-0.7	-0.0	-8.0	+0.0
Minimum price 25p + total off-t discount ban	-9	-0.0	-0.2	-0.3	-0.1	-25	-0.2	-0.2	-0.7	-1.6	-0.1	-0.2	-0.3	-0.7	-0.0	-8.0	+0.0
Minimum price 30p + total off-t discount ban	-9	-0.0	-0.2	-0.3	-0.1	-25	-0.2	-0.2	-0.7	-1.6	-0.1	-0.2	-0.3	-0.7	-0.0	-8.2	+0.0
Minimum price 35p + total off-t discount ban	-10	-0.0	-0.2	-0.3	-0.1	-27	-0.3	-0.2	-0.7	-1.8	-0.1	-0.2	-0.3	-0.7	-0.0	-8.7	+0.0
Minimum price 40p + total off-t discount ban	-12	-0.0	-0.3	-0.4	-0.1	-34	-0.3	-0.3	-0.9	-2.2	-0.1	-0.3	-0.4	-0.8	-0.0	-10.1	+0.0
Minimum price 45p + total off-t discount ban	-16	-0.0	-0.3	-0.5	-0.1	-46	-0.5	-0.4	-1.3	-2.9	-0.2	-0.3	-0.5	-1.0	-0.0	-12.6	+0.0
Minimum price 50p + total off-t discount ban	-21	-0.1	-0.5	-0.6	-0.2	-60	-0.6	-0.5	-1.7	-3.9	-0.2	-0.4	-0.6	-1.3	-0.0	-16.1	+0.0
Minimum price 55p + total off-t discount ban	-28	-0.1	-0.6	-0.8	-0.2	-79	-0.8	-0.6	-2.2	-5.0	-0.3	-0.5	-0.8	-1.7	-0.0	-20.8	+0.0
Minimum price 60p + total off-t discount ban	-36	-0.1	-0.8	-1.0	-0.3	-100	-1.0	-0.8	-2.8	-6.4	-0.4	-0.7	-1.1	-2.2	-0.0	-26.6	+0.0
Minimum price 65p + total off-t discount ban	-44	-0.1	-0.9	-1.3	-0.3	-124	-1.3	-1.0	-3.5	-7.9	-0.5	-0.9	-1.4	-2.7	-0.0	-33.3	+0.0
Minimum price 70p + total off-t discount ban	-53	-0.1	-1.2	-1.6	-0.4	-149	-1.6	-1.2	-4.2	-9.4	-0.6	-1.1	-1.7	-3.4	-0.0	-40.6	+0.0

Table A13.6: Summary tables for sensitivity analysis – SHeS revised for under-recording – 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)
Minimum price 25p	+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	-0.1	-0.0
Minimum price 30p	-0	-0.0	+0.0	+0.0	+0.0	-1	-0.0	+0.0	-0.0	+0.0	-0.0	-0.0	-0.0	-0.1	-0.0	-0.2	-0.0
Minimum price 35p	-1	-0.0	-0.0	-0.0	-0.0	-8	-0.1	-0.0	-0.1	-0.2	-0.0	-0.0	-0.1	-0.1	-0.0	-0.8	-0.0
Minimum price 40p	-6	-0.0	-0.1	-0.1	-0.0	-37	-0.3	-0.1	-0.6	-0.9	-0.0	-0.1	-0.2	-0.3	-0.0	-2.4	-0.1
Minimum price 45p	-14	-0.1	-0.2	-0.3	-0.1	-88	-0.6	-0.2	-1.4	-2.2	-0.1	-0.2	-0.3	-0.6	-0.0	-5.3	-0.3
Minimum price 50p	-25	-0.1	-0.3	-0.5	-0.1	-154	-1.1	-0.4	-2.5	-3.8	-0.1	-0.3	-0.5	-0.9	-0.0	-9.2	-0.5
Minimum price 55p	-37	-0.1	-0.5	-0.8	-0.2	-233	-1.6	-0.6	-3.8	-5.7	-0.2	-0.4	-0.7	-1.4	-0.0	-14.1	-0.7
Minimum price 60p	-51	-0.2	-0.7	-1.2	-0.2	-319	-2.3	-0.8	-5.3	-7.9	-0.3	-0.6	-1.0	-1.9	-0.0	-19.5	-0.9
Minimum price 65p	-65	-0.3	-0.9	-1.5	-0.3	-404	-2.9	-1.0	-6.8	-10.0	-0.4	-0.8	-1.3	-2.4	-0.0	-25.1	-1.1
Minimum price 70p	-79	-0.3	-1.1	-1.8	-0.4	-489	-3.5	-1.3	-8.3	-12.2	-0.5	-0.9	-1.6	-3.0	-0.0	-30.8	-1.2
Total off-trade discount ban	-14	-0.1	-0.2	-0.3	-0.1	-85	-0.6	-0.2	-1.4	-2.1	-0.1	-0.2	-0.3	-0.6	-0.0	-6.0	-0.3
Minimum price 25p + total off-t discount ban	-14	-0.1	-0.2	-0.3	-0.1	-86	-0.6	-0.2	-1.4	-2.1	-0.1	-0.2	-0.3	-0.6	-0.0	-6.1	-0.3
Minimum price 30p + total off-t discount ban	-14	-0.1	-0.2	-0.3	-0.1	-87	-0.6	-0.2	-1.5	-2.2	-0.1	-0.2	-0.3	-0.6	-0.0	-6.2	-0.4
Minimum price 35p + total off-t discount ban	-15	-0.1	-0.2	-0.3	-0.1	-93	-0.7	-0.2	-1.6	-2.3	-0.1	-0.2	-0.4	-0.7	-0.0	-6.7	-0.4
Minimum price 40p + total off-t discount ban	-19	-0.1	-0.3	-0.4	-0.1	-118	-0.8	-0.3	-2.0	-2.9	-0.1	-0.3	-0.4	-0.8	-0.0	-8.1	-0.4
Minimum price 45p + total off-t discount ban	-25	-0.1	-0.3	-0.6	-0.1	-160	-1.1	-0.4	-2.6	-3.9	-0.2	-0.3	-0.5	-1.0	-0.0	-10.4	-0.5
Minimum price 50p + total off-t discount ban	-34	-0.1	-0.5	-0.8	-0.2	-214	-1.5	-0.5	-3.6	-5.3	-0.2	-0.4	-0.7	-1.3	-0.0	-13.6	-0.7
Minimum price 55p + total off-t discount ban	-45	-0.2	-0.6	-1.0	-0.2	-281	-2.0	-0.7	-4.7	-6.9	-0.3	-0.5	-0.9	-1.7	-0.0	-17.7	-0.8
Minimum price 60p + total off-t discount ban	-57	-0.2	-0.8	-1.3	-0.3	-357	-2.5	-0.9	-6.0	-8.8	-0.3	-0.7	-1.1	-2.1	-0.0	-22.4	-1.0
Minimum price 65p + total off-t discount ban	-70	-0.3	-1.0	-1.6	-0.3	-435	-3.1	-1.1	-7.3	-10.8	-0.4	-0.8	-1.4	-2.7	-0.0	-27.7	-1.2
Minimum price 70p + total off-t discount ban	-84	-0.3	-1.1	-1.9	-0.4	-515	-3.7	-1.4	-8.7	-12.9	-0.5	-1.0	-1.7	-3.1	-0.0	-33.0	-1.3

Table A13.7: Summary tables for sensitivity analysis – SHeS revised for under-recording – 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)
Policy Scenario																	
Minimum price 25p	-1	-0.0	-0.0	-0.0	-0.0	-8	-0.1	-0.0	-0.2	-0.3	-0.0	-0.0	-0.1	-0.1	-0.0	-1.4	-0.2
Minimum price 30p	-3	-0.0	-0.1	-0.1	-0.0	-17	-0.2	-0.1	-0.5	-0.5	-0.0	-0.1	-0.2	-0.3	-0.0	-3.0	-0.4
Minimum price 35p	-7	-0.0	-0.1	-0.2	-0.0	-39	-0.4	-0.1	-1.0	-1.2	-0.1	-0.2	-0.4	-0.6	-0.0	-6.0	-0.7
Minimum price 40p	-14	-0.1	-0.2	-0.4	-0.1	-85	-0.9	-0.2	-2.1	-2.4	-0.2	-0.3	-0.6	-1.2	-0.0	-10.9	-1.3
Minimum price 45p	-26	-0.1	-0.4	-0.8	-0.2	-153	-1.6	-0.4	-3.7	-4.3	-0.3	-0.6	-1.0	-1.9	-0.0	-17.7	-2.2
Minimum price 50p	-40	-0.2	-0.6	-1.1	-0.2	-234	-2.3	-0.6	-5.5	-6.4	-0.4	-0.8	-1.5	-2.7	-0.0	-25.8	-3.1
Minimum price 55p	-55	-0.3	-0.8	-1.6	-0.3	-324	-3.2	-0.8	-7.4	-8.9	-0.5	-1.1	-2.0	-3.6	-0.0	-35.1	-4.2
Minimum price 60p	-71	-0.4	-1.0	-2.0	-0.4	-416	-4.0	-1.0	-9.4	-11.3	-0.7	-1.3	-2.5	-4.6	-0.0	-44.7	-5.3
Minimum price 65p	-86	-0.4	-1.2	-2.4	-0.5	-498	-4.7	-1.2	-11.0	-13.5	-0.8	-1.6	-3.0	-5.5	-0.0	-53.3	-6.3
Minimum price 70p	-101	-0.5	-1.5	-2.8	-0.6	-585	-5.4	-1.5	-12.7	-15.8	-1.0	-1.9	-3.6	-6.4	-0.1	-62.3	-7.2
Total off-trade discount ban	-16	-0.1	-0.2	-0.5	-0.1	-99	-1.0	-0.2	-2.3	-2.6	-0.1	-0.3	-0.5	-1.0	-0.0	-9.3	-1.1
Minimum price 25p + total off-t discount ban	-18	-0.1	-0.2	-0.5	-0.1	-106	-1.1	-0.2	-2.5	-2.9	-0.2	-0.3	-0.6	-1.0	-0.0	-10.5	-1.3
Minimum price 30p + total off-t discount ban	-19	-0.1	-0.3	-0.5	-0.1	-114	-1.1	-0.3	-2.7	-3.1	-0.2	-0.4	-0.7	-1.2	-0.0	-11.8	-1.4
Minimum price 35p + total off-t discount ban	-22	-0.1	-0.3	-0.6	-0.1	-131	-1.3	-0.3	-3.1	-3.6	-0.2	-0.4	-0.8	-1.5	-0.0	-14.2	-1.7
Minimum price 40p + total off-t discount ban	-28	-0.2	-0.4	-0.8	-0.2	-167	-1.7	-0.4	-3.9	-4.6	-0.3	-0.6	-1.1	-1.9	-0.0	-18.4	-2.2
Minimum price 45p + total off-t discount ban	-37	-0.2	-0.5	-1.1	-0.2	-221	-2.2	-0.5	-5.1	-6.1	-0.4	-0.7	-1.4	-2.5	-0.0	-24.0	-2.9
Minimum price 50p + total off-t discount ban	-49	-0.3	-0.7	-1.4	-0.3	-287	-2.8	-0.7	-6.6	-7.9	-0.5	-0.9	-1.8	-3.2	-0.0	-30.9	-3.7
Minimum price 55p + total off-t discount ban	-62	-0.3	-0.9	-1.7	-0.4	-365	-3.5	-0.9	-8.3	-9.9	-0.6	-1.2	-2.2	-4.0	-0.0	-39.2	-4.6
Minimum price 60p + total off-t discount ban	-76	-0.4	-1.1	-2.1	-0.4	-446	-4.2	-1.1	-10.0	-12.1	-0.7	-1.4	-2.7	-4.9	-0.0	-48.0	-5.6
Minimum price 65p + total off-t discount ban	-90	-0.5	-1.3	-2.5	-0.5	-523	-4.9	-1.3	-11.5	-14.2	-0.9	-1.7	-3.2	-5.8	-0.0	-56.1	-6.5
Minimum price 70p + total off-t discount ban	-104	-0.5	-1.5	-2.9	-0.6	-605	-5.5	-1.5	-13.1	-16.3	-1.0	-2.0	-3.7	-6.7	-0.1	-64.7	-7.5

Table A13.8: Summary tables for sensitivity analysis – SHeS revised for under-recording – harm analysis – harmful drinkers

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - TOTAL	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	Years 1-10
Minimum price 25p	+0.2	-1	-2	-5.4	-5.6	+4	-1	-5.3	+	-1	-1	-45	-47	-2	-1	-51
Minimum price 30p	-0.1	-3	-4	-11.4	-12.2	-3	-3	-12.8	-4	-3	-3	-95	-105	-20	-3	-128
Minimum price 35p	-1.0	-7	-8	-22.3	-24.8	-2.6	-6	-28.0	-17	-6	-7	-186	-215	-76	-6	-297
Minimum price 40p	-2.8	-1.4	-1.6	-40.0	-45.7	-7.3	-1.2	-54.2	-48	-12	-13	-332	-405	-204	-11	-619
Minimum price 45p	-5.4	-2.5	-2.7	-64.0	-74.6	-14.1	-2.0	-90.8	-94	-20	-23	-532	-669	-401	-19	-1,089
Minimum price 50p	-8.8	-3.9	-4.3	-92.5	-109.4	-22.8	-3.2	-135.4	-152	-32	-36	-769	-989	-649	-29	-1,667
Minimum price 55p	-12.8	-5.5	-6.1	-124.9	-149.3	-33.2	-4.5	-187.0	-219	-46	-51	-1,038	-1,355	-937	-42	-2,333
Minimum price 60p	-17.1	-7.4	-8.1	-157.4	-189.9	-44.4	-6.0	-240.3	-291	-61	-67	-1,309	-1,729	-1,244	-55	-3,027
Minimum price 65p	-21.4	-9.2	-10.1	-184.7	-225.3	-55.4	-7.4	-288.2	-362	-77	-84	-1,536	-2,058	-1,542	-69	-3,669
Minimum price 70p	-25.8	-11.1	-12.1	-211.5	-260.5	-66.9	-9.0	-336.4	-434	-92	-101	-1,759	-2,386	-1,848	-83	-4,317
Total off-trade discount ban	-4.4	-2.0	-2.1	-35.7	-44.2	-11.4	-1.6	-57.3	-75	-17	-18	-297	-406	-319	-15	-740
Minimum price 25p + total off-t discount ban	-4.5	-2.1	-2.3	-40.5	-49.5	-11.9	-1.7	-63.1	-77	-17	-19	-337	-451	-331	-16	-798
Minimum price 30p + total off-t discount ban	-4.8	-2.3	-2.5	-45.4	-54.9	-12.5	-1.9	-69.2	-81	-19	-21	-378	-498	-346	-17	-861
Minimum price 35p + total off-t discount ban	-5.3	-2.5	-2.8	-54.0	-64.7	-14.0	-2.1	-80.8	-90	-21	-23	-449	-584	-386	-19	-990
Minimum price 40p + total off-t discount ban	-6.7	-3.1	-3.5	-68.3	-81.5	-17.6	-2.5	-101.7	-114	-26	-29	-568	-737	-489	-24	-1,249
Minimum price 45p + total off-t discount ban	-8.9	-3.9	-4.4	-87.6	-104.9	-23.2	-3.2	-131.3	-152	-33	-37	-729	-950	-649	-30	-1,628
Minimum price 50p + total off-t discount ban	-11.7	-5.1	-5.7	-111.3	-133.7	-30.4	-4.1	-168.3	-199	-42	-47	-926	-1,215	-852	-38	-2,105
Minimum price 55p + total off-t discount ban	-15.1	-6.5	-7.3	-139.4	-168.2	-39.3	-5.3	-212.8	-257	-54	-60	-1,159	-1,531	-1,098	-49	-2,677
Minimum price 60p + total off-t discount ban	-18.9	-8.1	-9.0	-168.3	-204.4	-49.2	-6.6	-260.2	-321	-68	-75	-1,400	-1,863	-1,369	-61	-3,293
Minimum price 65p + total off-t discount ban	-22.9	-9.9	-10.8	-193.3	-236.9	-59.5	-8.0	-304.3	-386	-82	-90	-1,607	-2,165	-1,645	-73	-3,884
Minimum price 70p + total off-t discount ban	-27.1	-11.7	-12.8	-218.4	-269.9	-70.4	-9.4	-349.8	-455	-97	-106	-1,816	-2,475	-1,936	-87	-4,497

Table A13.9: Summary tables for sensitivity analysis – SHeS revised for under-recording – financial value – overall population

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - MODERATE	Value of harm reduction in year 1 (£ millions)								Cumulative discounted value of harm reduction over 10 years (£m)							
	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
Policy Scenario																
Minimum price 25p	+0.3	-0	-0	+0	+3	+7	-0	+1.0	+3	-	-	+	+3	+8	-	+11
Minimum price 30p	+0.3	-0	-0	+0	+2	+7	-0	+9	+3	-	-	+	+2	+6	-	+9
Minimum price 35p	+0.0	-0	-1	+0	-1	-0	-0	-1	-	-	-1	+	-1	-6	-	-7
Minimum price 40p	-0.5	-1	-2	+0	-8	-1.3	-1	-2.2	-6	-1	-2	+	-9	-36	-1	-47
Minimum price 45p	-1.1	-4	-5	+0	-2.0	-3.0	-3	-5.3	-15	-3	-4	+	-22	-80	-3	-106
Minimum price 50p	-2.0	-7	-9	+0	-3.6	-5.2	-6	-9.4	-27	-6	-8	+	-40	-138	-6	-184
Minimum price 55p	-3.0	-1.2	-1.5	+0	-5.7	-8.0	-1.0	-14.7	-41	-10	-12	+	-63	-207	-9	-279
Minimum price 60p	-4.2	-1.7	-2.1	+0	-8.0	-11.1	-1.5	-20.6	-57	-14	-17	+	-88	-283	-14	-385
Minimum price 65p	-5.5	-2.2	-2.7	+0	-10.5	-14.5	-1.9	-26.9	-75	-19	-23	+	-116	-363	-18	-497
Minimum price 70p	-6.9	-2.8	-3.4	+0	-13.1	-18.1	-2.4	-33.7	-93	-23	-29	+	-145	-447	-22	-614
Total off-trade discount ban	-1.3	-6	-7	+0	-2.6	-3.4	-5	-6.5	-17	-5	-6	+	-28	-80	-5	-113
Minimum price 25p + total off-t discount ban	-1.2	-6	-7	+0	-2.6	-3.3	-5	-6.4	-16	-5	-6	+	-27	-80	-5	-112
Minimum price 30p + total off-t discount ban	-1.3	-6	-7	+0	-2.6	-3.4	-5	-6.5	-16	-5	-6	+	-28	-82	-5	-114
Minimum price 35p + total off-t discount ban	-1.3	-6	-8	+0	-2.7	-3.6	-5	-6.9	-17	-5	-7	+	-29	-88	-5	-122
Minimum price 40p + total off-t discount ban	-1.7	-7	-9	+0	-3.3	-4.5	-6	-8.3	-22	-6	-8	+	-35	-111	-6	-152
Minimum price 45p + total off-t discount ban	-2.2	-9	-1.2	+0	-4.2	-5.8	-7	-10.8	-29	-7	-10	+	-46	-147	-7	-200
Minimum price 50p + total off-t discount ban	-2.9	-1.1	-1.5	+0	-5.5	-7.7	-1.0	-14.2	-39	-9	-12	+	-61	-194	-9	-264
Minimum price 55p + total off-t discount ban	-3.8	-1.5	-1.9	+0	-7.2	-10.0	-1.3	-18.5	-51	-12	-16	+	-79	-252	-12	-344
Minimum price 60p + total off-t discount ban	-4.8	-1.9	-2.4	+0	-9.2	-12.7	-1.7	-23.6	-65	-16	-20	+	-101	-319	-16	-436
Minimum price 65p + total off-t discount ban	-6.0	-2.4	-3.0	+0	-11.5	-15.9	-2.1	-29.5	-81	-20	-25	+	-127	-393	-20	-539
Minimum price 70p + total off-t discount ban	-7.3	-3.0	-3.7	+0	-14.0	-19.3	-2.6	-35.9	-99	-25	-31	+	-154	-472	-24	-650

Table A13.10: Summary tables for sensitivity analysis – SHeS revised for under-recording – financial value – moderate drinkers

University of Sheffield – Alcohol Minimum Price Modelling Research: Second Update

SUMMARY - HAZARDOUS	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	
																	Year 1
Policy Scenario																	
Minimum price 25p	+0.1	-0	-0	-2	-1	+2	-0	+1	+1	-	-	-1	-1	+2	-	+1	
Minimum price 30p	+0.0	-0	-0	-4	-4	+1	-0	-3	+	-	-	-3	-4	+	-	-4	
Minimum price 35p	-0.1	-1	-1	-1.2	-1.5	-3	-1	-1.9	-2	-1	-1	-10	-14	-11	-1	-25	
Minimum price 40p	-0.6	-2	-2	-3.3	-4.3	-1.4	-2	-5.9	-10	-2	-2	-27	-41	-46	-2	-89	
Minimum price 45p	-1.3	-5	-5	-6.9	-9.2	-3.3	-4	-12.8	-24	-4	-4	-58	-90	-108	-4	-201	
Minimum price 50p	-2.3	-8	-8	-11.4	-15.4	-5.8	-6	-21.8	-43	-7	-7	-95	-152	-189	-6	-346	
Minimum price 55p	-3.6	-1.2	-1.3	-16.7	-22.7	-8.9	-1.0	-32.6	-66	-10	-11	-139	-225	-286	-9	-520	
Minimum price 60p	-4.9	-1.6	-1.8	-22.0	-30.3	-12.3	-1.3	-43.9	-91	-13	-15	-183	-302	-393	-12	-707	
Minimum price 65p	-6.3	-2.1	-2.3	-26.4	-37.1	-15.8	-1.7	-54.6	-117	-17	-19	-219	-373	-500	-16	-888	
Minimum price 70p	-7.8	-2.5	-2.8	-29.7	-42.8	-19.4	-2.1	-64.2	-143	-21	-23	-247	-435	-608	-19	-1,062	
Total off-trade discount ban	-1.3	-5	-5	-8.1	-10.6	-3.4	-4	-14.4	-24	-4	-5	-68	-101	-106	-4	-210	
Minimum price 25p + total off-t discount ban	-1.4	-5	-6	-8.3	-10.8	-3.4	-4	-14.7	-25	-4	-5	-69	-103	-106	-4	-213	
Minimum price 30p + total off-t discount ban	-1.4	-6	-6	-8.6	-11.1	-3.5	-5	-15.0	-25	-5	-5	-71	-106	-108	-4	-218	
Minimum price 35p + total off-t discount ban	-1.5	-6	-6	-9.1	-11.8	-3.8	-5	-16.1	-27	-5	-5	-76	-113	-117	-5	-235	
Minimum price 40p + total off-t discount ban	-1.8	-7	-7	-10.6	-13.8	-4.7	-6	-19.1	-34	-6	-6	-88	-133	-147	-5	-285	
Minimum price 45p + total off-t discount ban	-2.5	-9	-9	-13.1	-17.4	-6.2	-7	-24.3	-45	-7	-8	-109	-169	-197	-7	-373	
Minimum price 50p + total off-t discount ban	-3.3	-1.1	-1.2	-16.4	-22.0	-8.3	-9	-31.2	-61	-9	-10	-136	-217	-264	-8	-489	
Minimum price 55p + total off-t discount ban	-4.4	-1.5	-1.6	-20.3	-27.8	-10.9	-1.2	-39.9	-80	-12	-13	-169	-275	-347	-11	-633	
Minimum price 60p + total off-t discount ban	-5.6	-1.8	-2.0	-24.5	-34.0	-13.9	-1.5	-49.4	-103	-15	-17	-204	-339	-441	-14	-794	
Minimum price 65p + total off-t discount ban	-6.9	-2.3	-2.5	-28.0	-39.7	-17.2	-1.9	-58.7	-127	-19	-21	-233	-400	-540	-17	-957	
Minimum price 70p + total off-t discount ban	-8.2	-2.7	-3.0	-30.8	-44.8	-20.5	-2.2	-67.5	-152	-22	-25	-256	-456	-643	-20	-1,118	

Table A13.11: Summary tables for sensitivity analysis – SHeS revised for under-recording – financial value – 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	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
Policy Scenario																
Minimum price 25p	-0.2	-.1	-.2	-5.3	-5.7	-.5	-.1	-6.3	-3	-1	-1	-44	-49	-13	-1	-63
Minimum price 30p	-0.4	-.3	-.3	-11.0	-12.0	-1.1	-.2	-13.4	-7	-2	-3	-92	-103	-27	-2	-132
Minimum price 35p	-0.9	-.6	-.6	-21.1	-23.2	-2.4	-.5	-26.0	-15	-5	-5	-176	-201	-59	-5	-264
Minimum price 40p	-1.7	-1.0	-1.1	-36.7	-40.6	-4.6	-.9	-46.1	-31	-8	-9	-305	-354	-121	-8	-483
Minimum price 45p	-3.0	-1.6	-1.7	-57.0	-63.4	-7.9	-1.3	-72.6	-54	-13	-15	-474	-556	-213	-12	-782
Minimum price 50p	-4.5	-2.3	-2.5	-81.1	-90.3	-11.8	-1.9	-104.0	-82	-19	-21	-674	-796	-322	-17	-1,135
Minimum price 55p	-6.1	-3.0	-3.4	-108.1	-120.7	-16.2	-2.5	-139.4	-112	-25	-28	-899	-1,065	-443	-23	-1,531
Minimum price 60p	-7.9	-3.9	-4.3	-135.4	-151.4	-20.8	-3.1	-175.2	-142	-32	-36	-1,126	-1,336	-566	-28	-1,930
Minimum price 65p	-9.4	-4.6	-5.0	-158.4	-177.4	-24.9	-3.7	-206.0	-169	-38	-42	-1,317	-1,566	-676	-34	-2,276
Minimum price 70p	-11.0	-5.4	-5.8	-181.8	-204.1	-29.1	-4.3	-237.5	-197	-45	-49	-1,512	-1,802	-790	-39	-2,631
Total off-trade discount ban	-1.7	-.8	-.9	-27.6	-31.0	-4.5	-.6	-36.1	-33	-7	-7	-229	-276	-132	-6	-415
Minimum price 25p + total off-t discount ban	-1.9	-.9	-1.0	-32.2	-36.0	-5.0	-.7	-41.7	-36	-7	-8	-268	-320	-144	-7	-470
Minimum price 30p + total off-t discount ban	-2.1	-1.0	-1.1	-36.9	-41.1	-5.5	-.8	-47.4	-39	-8	-10	-307	-364	-155	-8	-526
Minimum price 35p + total off-t discount ban	-2.5	-1.2	-1.4	-44.9	-50.0	-6.5	-1.0	-57.5	-46	-10	-12	-373	-441	-180	-9	-630
Minimum price 40p + total off-t discount ban	-3.2	-1.6	-1.8	-57.7	-64.3	-8.4	-1.3	-74.0	-58	-13	-15	-480	-567	-230	-12	-809
Minimum price 45p + total off-t discount ban	-4.2	-2.1	-2.3	-74.5	-83.1	-11.0	-1.7	-95.8	-77	-17	-19	-620	-733	-303	-16	-1,052
Minimum price 50p + total off-t discount ban	-5.4	-2.7	-3.0	-94.9	-106.0	-14.3	-2.2	-122.5	-99	-22	-25	-790	-936	-393	-20	-1,348
Minimum price 55p + total off-t discount ban	-6.9	-3.4	-3.7	-119.0	-133.0	-18.2	-2.7	-153.9	-125	-28	-31	-990	-1,174	-497	-25	-1,696
Minimum price 60p + total off-t discount ban	-8.4	-4.1	-4.6	-143.8	-160.9	-22.3	-3.3	-186.5	-152	-34	-38	-1,196	-1,420	-607	-30	-2,057
Minimum price 65p + total off-t discount ban	-9.9	-4.8	-5.3	-165.2	-185.2	-26.2	-3.8	-215.2	-177	-40	-44	-1,374	-1,635	-709	-35	-2,380
Minimum price 70p + total off-t discount ban	-11.4	-5.6	-6.1	-187.5	-210.7	-30.2	-4.4	-245.3	-204	-47	-50	-1,560	-1,861	-817	-41	-2,719

Table A13.12: Summary tables for sensitivity analysis – SHeS revised for under-recording – financial value – harmful drinkers