

Illicit tobacco in New Zealand

2019 Full Year Report

26 May 2020

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26 May 2020

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Nothing in this Report constitutes legal advice. Information sources, the scope of our work, and scope and source limitations, are set out in the Appendices to this Report. The scope of our review of the contraband, counterfeit and unbranded segments of the tobacco market within New Zealand was fixed by agreement with the Beneficiary and is set out in the Appendices.

We have satisfied ourselves, so far as possible, that the information presented in this Report is consistent with our information sources but we have not sought to establish the reliability of the information sources by reference to other evidence.

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Glossary

ASH	Action on Smoking and Health
BATNZ	British American Tobacco (New Zealand) Limited
CAGR	Compound Annual Growth Rate
CATI	Computer Aided Telephone Interview
CAWI	Computer Aided Web Interview
CCA	Customs controlled area - a secure and controlled environment in which the activities that take place are monitored or conducted by Customs and that is an area that must be licensed by Customs under section 56 of the <i>Customs and Excise Act 2018</i> . This includes places where goods are inspected and where duty free or excisable goods are manufactured, sold or stored
cm	Centimetre
Contraband	Genuine manufactured cigarettes that are sold without the payment of applicable excise taxes in the market of consumption. Contraband cigarettes tend to have been bought in a low-tax country and brought into the country of consumption illegally or acquired without taxes (for export purposes) and illegally re-sold in the market of consumption. This category includes genuine products that are brought into a country in amounts exceeding the personal allowance; in New Zealand this limit is 50 cigarettes or 50 grams of tobacco per person
Counterfeit	Manufactured cigarettes that are illegally manufactured and carry the trademark and/or branding of a legally manufactured brand without the consent of the trademark owner. Counterfeit cigarettes are also known as fake cigarettes. For the purposes of this analysis, data relating to counterfeit is not included within the definition of contraband
CPI	Consumer Price Index
Customs	New Zealand Customs Service
Domestic cigarettes	Cigarettes that are produced for consumption in New Zealand
Domestic Illicit Whites	Flows of Illicit White brands that have packaging designed for the domestic New Zealand market
EoS	Exchange of sales is shipment data provided by each manufacturer to independent research agencies who process and combine it into a single set of data to reflect exfactory shipments for all three manufacturers
EPS	Empty pack survey
FCT	Fine cut tobacco
FMC	Factory manufactured cigarettes
g	Gram
GDP	Gross Domestic Product
Illicit Whites	Manufactured cigarettes that are usually manufactured legally in one country/market but which the evidence suggests have been smuggled across borders during their transit to New Zealand, where they have limited or no legal distribution and are sold without the payment of tax. These flows include Domestic Illicit Whites and Illicit Whites (non-domestic)



Glossary

Illicit Whites (non-domestic)	Flows of Illicit White brands that originate from countries other than New Zealand
Inflows	Total volume of cigarettes coming into New Zealand
ITNZ	Imperial Tobacco New Zealand Limited
kg	Kilogram
LDC	Legal domestic consumption
LDS	Legal domestic sales
Loose tobacco	Loose leaf tobacco sold in pouches used in roll your own (RYO) cigarettes, which is consumed using rolling papers or tubes
LTM 2018	Last twelve months, which refers to the last twelve months to the end of December 2018
m	Million
МОН	Ministry of Health
MSI	MSIntelligence
ND(L)	Non-domestic legal is the legitimate tobacco purchased in duty free or abroad within personal allowance limits
OECD	Organisation for Economic Cooperation & Development
Outflows	Legitimate tobacco purchase in New Zealand and taken abroad
PDI	Personal disposable income
PMNZ	Philip Morris (New Zealand) Limited
Рр	Percentage point
Project Stella	A study of the illicit cigarette market in the European Union, UK, Norway and Switzerland by KPMG. Previously called Project SUN
RRP	Recommended retail price
RYO	Roll your own cigarettes which have been rolled by consumers using loose tobacco
SFEA	Smokefree Environments Act 1990
Tobacco grown at home	Home grown tobacco which has been consumed by the grower (legal). In New Zealand it is currently permitted for adults to grow unlimited amounts of tobacco and manufacture up to 5 kilograms of tobacco per year (reduced from 15 kg per year on 1 st July 2019 as per the Customs and Excise Act), provided it is exclusively for their personal use and not for sale to any other person.
Tobacco returns	Tobacco sales data provided to the MOH by all tobacco importers and manufacturers, made publicly available and used by KPMG to determine legal domestic sales volumes
Unbranded Tobacco	Illegal loose leaf tobacco upon which no duty has been paid and which carries no labelling or health warnings. It is sold and consumed either in RYO form or inserted into empty cigarette tubes, although according to the industry, there is limited evidence of the use of tubes in New Zealand. Unbranded tobacco can come from either imported product which enters New Zealand illegally, or through tobacco which is grown in New Zealand, but has been sold or given away illegally
Unspecified	Cigarette packs that do not bear specific market labelling or duty free labelling



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1. Executive Summary and key findings

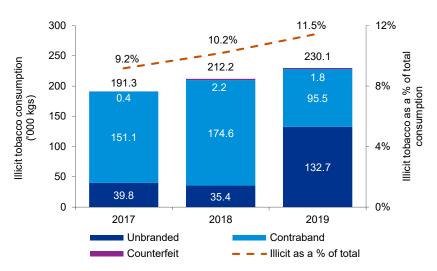
- 1.1 Key messages
- 1.2 The purpose of this report
- 1.3 KPMG's illicit tobacco experience

Executive summary and key findings

Between 2018 and 2019, Illicit tobacco consumption increased from 10.2% to 11.5% of total consumption

1.1 Key messages

Figure 1.1: Consumption of illicit tobacco products in New Zealand 2017 - 2019^{(1)(2)(a)}



Tobacco consumption in New Zealand

- The total volume of all tobacco consumed in New Zealand in 2019 was 2.01 million kg. Compared to 2018, this
 represents a decrease of 3.8%.
- Approximately 11.5% of total consumption (0.23 million kg) was estimated to be illicit, compared to 10.2% in 2018. This represents an 8.4% increase in volume.
- If this 0.23 million kg of illicit tobacco had been consumed legally, it would have represented an estimated excise value of NZD 287.4 million.^(a)

Consumption of illicit manufactured cigarettes

- Contraband consumption accounted for 41.5% of total illicit tobacco consumption in 2019, decreasing from 82.3% of total illicit consumption in 2018.
 - Flows from China and South Korea, including duty-free, constituted the majority of total non-domestic manufactured cigarette consumption accounting for 29.7% and 27.4% respectively.
- Counterfeit represented a very small proportion of illicit consumption, accounting for only 0.1% of total consumption.
- Approximately 1.1% of total illicit consumption was estimated to be Illicit Whites (included within contraband).

Consumption of unbranded tobacco and home grown tobacco

- Unbranded consumption accounted for the majority of total illicit tobacco consumption, increasing from 16.7% in 2018 to 57.7% of total illicit consumption in 2019.^(b)
- Home grown tobacco production decreased by 3.5% from 2018 and accounted for 3.9% of total consumption in 2019.^(b)
- The Q2 2018 consumer survey results continue to be excluded from our analysis as we believe it overstates consumption.

lote:	(a)	Calculated based on the excise tax rate for 2019, i.e., NZD 924.87 per 1,000 cigarettes and NZD 1,317.93 per kilo tobacco content.	
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- (b) Due to lack of data points unbranded tobacco consumption and tobacco grown at home are reported only for Q4 2017 (and not Q2 2017).
- Sources: (1) Industry data; see specific report sections for further detail. (2) KPMG analysis.



KPMG UK is a leading advisor in the field of illicit tobacco consumption measurement

1.2 The purpose of this report

ITNZ have commissioned KPMG UK to estimate the size of the consumption of illicit tobacco in New Zealand. The purpose of this report is:

- 1. To provide an overview of the nature of the legal and illicit tobacco markets in New Zealand, and
- 2. To provide an independent estimate of the size of the illicit tobacco market in New Zealand.

This full year 2019 report measures the consumption of illicit tobacco in New Zealand. It reports on events occurring during the twelve month period from January 2019 through to December 2019. This 2019 report is produced using a methodology in line with previous KPMG illicit tobacco measurement, including KPMG's 'Illicit Tobacco in Australia' reports and is consistent with the previous 'Illicit Tobacco in New Zealand' report.

1.3 KPMG LLP's anti-illicit tobacco experience

KPMG UK has significant experience in the measurement of illicit tobacco consumption across a number of markets. Our work has covered markets in Oceania, Europe, Latin and North America, Asia and the Middle East.

Our work was pioneered in Europe where we have published an annual report on illicit cigarette consumption since 2006. In 2013, it was conducted on a pan-industry basis for the first time. In 2018, the reports was funded by Philip Morris International Management. The project was called 'Project Stella' in 2019 (formerly known as Project SUN). The study included all 27 European Union Member States (with previous reports covering all member states at that point in time). The project was conducted for the seventh time in 2019, the study also includes the non-EU markets of UK, Norway and Switzerland.



2. New Zealand tobacco market

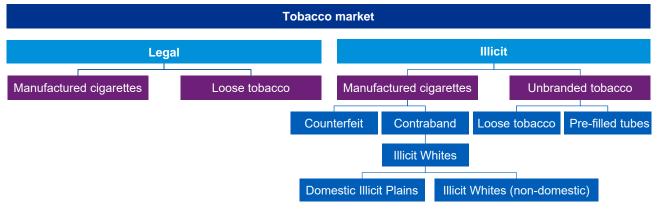
- 2.1 Tobacco consumption in New Zealand
- 2.2 Legal tobacco market
- 2.3 Home grown tobacco

Both the legal and illicit markets are characterised by the consumption of manufactured cigarettes and loose tobacco

2.1 Tobacco consumption in New Zealand

Tobacco consumption refers to total volume of consumption for the types of tobacco as mapped out in figure 2.1. This section deals with the tobacco market and related products:

Figure 2.1: New Zealand tobacco market map



Legal tobacco products

There are two types of tobacco products considered in total tobacco consumption:

Manufactured cigarettes - (also known as 'FMC') made for the tobacco market and sold in packets.

Loose tobacco - Loose leaf tobacco sold in pouches used in roll your own (RYO) cigarettes, which is consumed using rolling papers or tubes.

In addition to loose leaf manufactured tobacco, tobacco is also legally consumed through **tobacco grown at home**; a feature of the New Zealand market. Adults may legally grow unlimited amounts of tobacco for manufacture on the land on which their private dwelling is located if the tobacco is exclusively for their personal use and not for sale or other disposition to anyone else. They may then manufacture up to 5 kilograms (reduced from 15 kg per year on 1st July 2019 as per the Customs and Excise Act) of tobacco for personal use provided they do not sell or dispose of the tobacco to others.

Additional legal consumption is possible in the form of nondomestic legal product, that is tobacco purchased by consumers in other countries and imported into New Zealand legally for personal consumption (e.g. under the duty free allowance for travellers).^(a) This report does not consider any other tobacco products such as cigars, pipe tobacco, shisha or chewing tobacco.

Illicit tobacco products

As shown in figure 2.1, the types of tobacco products

considered in illicit tobacco consumption are counterfeit cigarettes, contraband cigarettes and unbranded tobacco.

Illicit tobacco is either brought into the country illegally from overseas markets or grown illegally within New Zealand. This tobacco is usually sold to consumers below the recommended retail price in New Zealand, avoiding New Zealand tax obligations, or is brought into the country in amounts exceeding the allowable personal limit.

Counterfeit

These are manufactured cigarettes. They are generally manufactured overseas in countries with large scale tobacco production and sophisticated tobacco manufacturing machinery. Once manufactured they are illicitly smuggled into New Zealand most commonly via ports on large container freight and other channels including airmail and online purchases.

These products have been manufactured without the consent of the trademark owner.

Contraband

These are mainly genuine cigarettes that are manufactured legally outside of New Zealand, compliant with local regulations, and then smuggled into the New Zealand market. This also includes cigarettes which are purchased legally outside New Zealand but exceed the personal import allowance and have no duty paid.

Contraband cigarettes are legitimately manufactured by the trademark owners but imported illegally (by third parties or consumers) to avoid New Zealand regulations, quarantine inspections and local product controls.

Notes: (a) Maximum duty free allowance of tobacco in New Zealand is 50 cigarettes or 50 grams of tobacco or cigars or a mixture of cigarettes, tobacco or cigars that weighs not more than 50 grams under the *Tariff Act 1988* ss 2, 3, 6, 8 and 9A and Working Tariff Document Part II Concessions Concession Reference Number 82(a).



New Zealand tobacco market

Both the legal and illicit markets are characterised by the consumption of manufactured cigarettes and loose tobacco

Illicit Whites

Illicit Whites are manufactured cigarettes that are usually manufactured legally in one country/market but which the evidence suggests have been smuggled across borders during their transit to New Zealand, where they have limited or no legal distribution and are sold without the payment of tax. These flows include Domestic Illicit Plains and Illicit Whites (non-domestic). Domestic Illicit Plains are flows of Illicit White brands that have packaging designed for the domestic New Zealand market. Illicit White brand flows that do not have plain packaging designed for the domestic New Zealand market are Illicit Whites (non-domestic).

Illicit Whites cigarettes have been included in our analysis of contraband.

Unbranded tobacco

Unbranded tobacco is illegal loose leaf tobacco upon which no duty has been paid and which carries no labelling or health warnings. Unbranded tobacco can come from either imported product which enters New Zealand illegally, or through tobacco which is grown in New Zealand, but has been sold or given away illegally. Unbranded tobacco is typically sold in bags as loose tobacco, or can be sold in boxes of pre-rolled tubes. According to the industry, there is limited evidence of the use of tubes in New Zealand.

The product carries no labelling or health warnings and is consumed in RYO form or inserted into empty cigarette tubes and sold in boxes, this product is then sold either in bags or pre-rolled tubes.

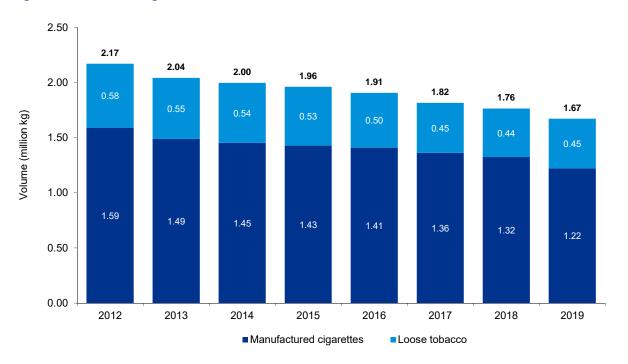


New Zealand tobacco market

Between 2018 and 2019 legal domestic sales declined by 5.2%

2.2.1 Legal tobacco market

Figure 2.2.1a: Historic legal domestic sales^{(1)(a)(b)(c)(d)}



	2012 – 2019 CAGR	2018 – 2019 growth rate
Manufactured cigarettes	(3.7)%	(7.6)%
Loose tobacco	(3.6)%	2.0%
Total market	(3.7)%	(5.2)%

The legal tobacco market in New Zealand is comprised of manufactured cigarettes and loose tobacco. Whilst legal sales of both manufactured cigarettes and loose tobacco declined between 2012 and 2018, in 2019 consumption of loose tobacco grew by 2.0% and manufactured cigarettes declined by 7.6% on an annual basis.

Notes: (a) Conversion of cigarettes to kilograms is based on 0.80 grams = 1 manufactured cigarette, as per the official rates used for New Zealand excise duty purposes.

- (b) Duty free sales are not included as part of total sales volumes.
- (c) Last twelve months January 2019 to December 2019.
- (d) Numbers in the above chart may not sum due to rounding.

Source: (1) KPMG analysis of IRI – EoS data, 2012 - 2019.

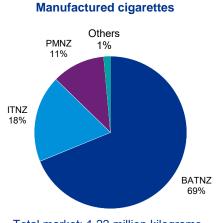


New Zealand tobacco market

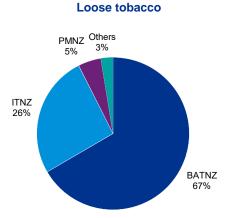
The top three manufacturers account for over 98% of legally purchased tobacco consumed in New Zealand

2.2.2 New Zealand legal tobacco competitive overview

Figure 2.2.2a: Market share by manufacturer, 2019⁽¹⁾







Total market: 0.45 million kilograms

Market share

The three major tobacco manufacturers have large shares across both the manufactured cigarette and loose tobacco market in New Zealand. BATNZ continues to have the largest market share across both the categories.

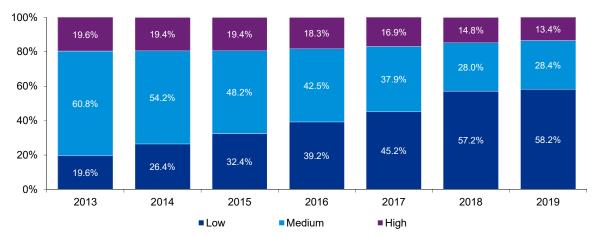


Figure 2.2.2b: Market share of cigarettes by price category, 2013 – 2019^{(2)(3)(a)}

Price category

Since 2013, low priced cigarettes have almost tripled their market share at the expense of mid-priced and high-priced cigarettes. Low-priced cigarettes continue to represent more than half the total market in 2019 at 58.2%, an increase of 1 percentage point from 2018.

(a) Based on Euromonitor's price point categorisation which is based on RRP of each brand relative to other brands. Note:

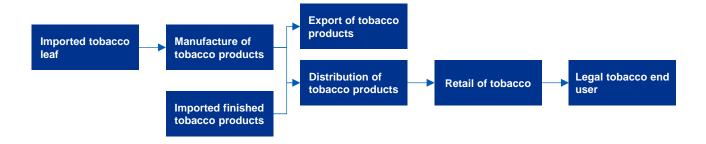
- Sources: (1) Tobacco Returns, Ministry of Health New Zealand (MOH), 2019.
 - Scan sales data by value and volume, 2013-2019. (2)
 - (3) Euromonitor, Cigarettes in New Zealand, July 2019.



All commercially sold tobacco products are manufactured from imported leaf

2.2.3 Supply and distribution for sale of legal products in New Zealand

Figure 2.2.3a: Supply chain for legal tobacco products in New Zealand, 2019



Distribution and sales channels

All manufactured tobacco products are imported into New Zealand as tobacco leaf or finished products. No tobacco is legally grown in New Zealand for commercial purposes. The manufacturing process, which requires a licence from Customs, requires the payment of additional excise duties. Some of the products manufactured in New Zealand are exported.

Non-domestic legal consumption channel and outflows

A small amount of tobacco is imported into New Zealand by consumers for their own personal consumption. Consumers have a limit of 50 cigarettes or 50g of tobacco or cigars or a mixture of cigarettes and cigars and tobacco that weighs not more than 50g which can be brought in without paying excise duty. This volume can be brought in from the country of origin or through duty free sales channels which are available on leaving and re-entering New Zealand.⁽¹⁾ The non-domestic legal volume is likely to be a small proportion of consumption and is discussed further in the appendix A4.^(a)

Note: (a) Non-domestic legal is estimated to be 25.8 tonnes of tobacco or 1.3% of total consumption in 2019.

- Source: (1) Tariff Act 1988 ss 2, 3, 6 and 8 and Working Tariff Document Part II Concessions Concession Reference Number 82(a).
 - (2) iRi, Exchange of Sales, 2012 2019



In New Zealand, tobacco can be legally grown and manufactured at home for personal use

2.3 Home grown tobacco

Legal growing allowance

In New Zealand adults may grow unlimited amounts of tobacco for individual consumption, if the tobacco is on the land where their private dwelling is located and the tobacco is exclusively for their personal use and not for sale or other disposition to any other person. The *Customs and Excise Act 2018*⁽¹⁾ allows the manufacture of this privately grown tobacco for personal use provided that the individual grower is aged 18 years or over and does not sell or dispose the tobacco to anyone else. Adults may manufacture up to 5 kilograms of this tobacco for their personal use without having to pay excise duty. This was reduced from 15 kilograms in July 2019⁽¹⁾

Figure 2.3: New Zealand home grown tobacco supply chain⁽¹⁾



Figure 2.3 illustrates the three phases of a typical home grown tobacco supply chain:

(1) Cultivation on own land

There is no limit on the amount of tobacco plant that can be grown by home growers, as long as it is grown on the consumer's land. In practice, tobacco plants can grow to between six and seven feet and therefore growing is likely to be limited to smokers that have enough outdoor space.

(2) Manufacture at consumer's property

Growers may 'manufacture' up to 5 kilograms of tobacco per year as long as this is for their own personal consumption. The manufacturing process includes, curing, cutting, pressing, grinding, crushing, rubbing or otherwise preparing raw or leaf tobacco.⁽²⁾ This process can take up to a year before the leaf can be cut into strips that can be rolled into cigarettes. The space required to hang and dry the tobacco leaf, along with the time taken before the tobacco is ready for consumption, is likely to further limit the number of legal home growers.

3 Personal consumption

Home grown tobacco is strictly for personal consumption and may not be sold or given away. If the entire 5 kilogram allowance was smoked, KPMG estimates that this would equate to approximately 27 rolled cigarettes per day, depending on the amount of tobacco used in each cigarette.^(a)

Notes: (a) Conversion of tobacco to RYO cigarettes is based on 0.50 grams = 1 RYO cigarette.

Sources: (1) Customs and Excise Act 2018 s 67.

Customs and Excise Act 2018 s 5(1).



3. New Zealand macroeconomic environment

- 3.1 Macroeconomic context
- 3.2 Gross domestic product growth
- 3.3 Unemployment
- 3.4 Personal disposable income
- 3.5 Consumer price index

New Zealand has experienced a long period of economic growth combined with declining unemployment

3.1 Macroeconomic context

This section provides background on the New Zealand economy. Significant changes in gross domestic product (GDP) growth, unemployment, personal disposable income or inflation could impact consumer behaviour and subsequently tobacco consumption.

The decline in legal domestic sales since 2012 needs to be examined in the context of the affordability of tobacco products. Personal disposable income (PDI) and the consumer price index (CPI) are examined in order to assess possible reasons for changes to consumer behaviour.

3.2 Gross domestic product growth

The GDP growth slowed in 2019 due to global economic slowdown which resulted in decline in exports. Fall in house prices and negative business sentiment also had an adverse impact on the economy.⁽¹⁾

Nonetheless, New Zealand has been among the fastest growing developed economies in recent years. Between 2008 and 2019, the economy grew at a CAGR of 2.7%, with a growth rate of 2.4% in 2019 which is higher than the OECD growth rate for eight of the past eleven years.

Figure 3.2: Year on Year GDP growth, 2008 – 2019^{(2)(3)(4)(a)(b)}



Notes: (a) Historical numbers have been updated and have been based on data from the Economist Intelligence Unit.

- (b) Figures for 2019 are based on full year estimates.
- Sources: (1) New Zealand's economic growth slows to more than 5-year low, Financial Times, September 2019
 - (2) OECD, Economic forecast summary New Zealand (November 2019).
 - (3) The Economist Intelligence Unit, GDP at constant prices, accessed January 2020.
 - (4) OECD, GDP (expenditure approach), accessed January 2020.
 - (5) The Economist Intelligence Unit, recorded unemployment as a percentage of total labour force, accessed January 2020.
 - (6) OECD unemployment rates, accessed January 2020.

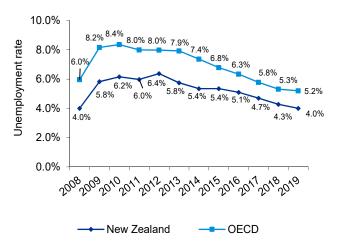


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3.3 Unemployment

The New Zealand unemployment rate peaked at 6.4% in 2012, but has continuously decreased over the past seven years. New Zealand's unemployment rate is low in comparison with the OECD average; 1.2 percentage points below the OECD average in 2019.⁽⁵⁾

Figure 3.3: Recorded unemployment, 2008 – 2019^{(2)(5)(6)(a)(b)}



Personal disposable income in New Zealand showed an increase of 2.9% in 2019 in comparison to 2018

3.4 Personal disposable income per capita

New Zealand experienced consistent growth in Personal Disposable Income (PDI) per capita between 2008 and 2019 with a CAGR of 3.3%. The growth rate for PDI between 2018 and 2019 was 2.9% in comparison to a 7.8% growth between 2017 and 2018.

3.5 Consumer price index

New Zealand's CPI has grown consistently since 2008. This is similar to the OECD average, although New Zealand experience slightly higher CPI growth between 2008 and 2011.

Inflation fell between 2011 and 2015 due to lower prices of dairy products and fuel. However, inflation is estimated to have reached a six year high in 2017 at 1.8% as a result of rising fuel, food and housing prices. In 2019, Inflation rose to 1.6% from 1.5% in 2018, driven by an increase in petrol, housing and food prices.⁽²⁾⁽³⁾

Figure 3.5: Consumer Price Index 2008 - 2019^{(4)(5)(a)}

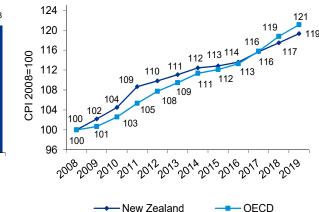
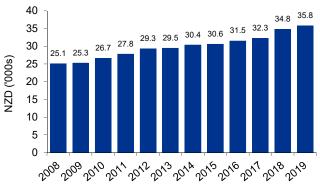


Figure 3.4: Personal disposable income per capita 2008 - 2019^{(1)(a)}



Note: (a) 2019 data is based on latest published estimates.

- Sources: (1) Euromonitor, annual disposable income per capita, accessed January 2020.
 - (2) Euromonitor, Economy, Finance and Trade: New Zealand: December 2019.
 - (3) Statistics New Zealand, Consumer Prices Index: September 2019 quarter
 - (4) Euromonitor, Index of consumer prices, accessed January 2020.
 - (5) OECD Economics, Consumer prices, accessed January 2020, rebased to 2008.



4. Regulation and taxation

- 4.1 Tobacco regulation in New Zealand
- 4.2 Future legislation
- 4.3 Recent development of excise duty and tobacco affordability in New Zealand
- 4.4 Regional tobacco prices

Successive governments have applied additional excise taxes on tobacco in order to reduce smoking prevalence

4.1 Tobacco regulation in New Zealand

Introduction

In this section we discuss major pieces of government legislation and activities undertaken in order to control tobacco.

Regulation of the tobacco industry has steadily increased since the 1960s after advertising on television and radio was banned in 1963.⁽¹⁾ New Zealand was one of the first countries to introduce health warnings on cigarette packets in 1974⁽²⁾ and has continued to adopt new tobacco regulations.⁽³⁾

In 2010, a Parliamentary inquiry was conducted by the Māori Affairs Select Committee into the tobacco industry in Aotearoa and the consequences of tobacco use for Māori.⁽⁴⁾ In response to the recommendations in that Committee's report⁽⁵⁾ the Government adopted a goal known as 'Smokefree 2025'.⁽⁶⁾ The first recommendation agreed by the Government was to 'set specific mid-term targets as a means to ensure meaningful progress towards the longer term goal of making New Zealand essentially a smoke free nation by 2025'.⁽⁷⁾ The term 'smoke free' is used to communicate the goal of achieving a smoking rate less than 5% by 2025, and not a complete ban on smoking.⁽⁸⁾ The Ministry of Health (MOH) believes that vaping products have the potential to make a contribution to the Smokefree 2025 goals. While MOH encourages smokers who wish to use smoke free products to quit conventional smoking to take advantage of local stop smoking services, they will continue to study its long term impact and effectiveness as a tool for smoking cessation.⁽⁹⁾

Increases in excise duty

On 29 April 2010, the *Excise and Excise-Equivalent Duties Table (Tobacco Products) Amendment Act 2010* made a one-off 14% alignment increase on the duties on loose tobacco and on higher-weight manufactured cigarettes with the duties on lower-weight manufactured cigarettes, and made a 10% increase to the duties on all tobacco products.⁽¹⁰⁾

- Sources: (1) MOH, *Tobacco control in New Zealand* https://www.health.govt.nz/our-work/preventative-health-wellness/tobacco-control/tobacco-control-new-zealand (28 May 2018) (1 August 2016).
 - (2) Ibid.
 - (3) For recent examples, see Smokefree Environments (Tobacco Standardised Packaging) Amendment Act 2016 and Smokefree Environments Regulations 2017.
 - (4) Māori Affairs Committee, House of Representatives, Inquiry into the tobacco industry in Actearoa and the consequences of tobacco use for Māori (November 2010).
 - (5) Ibid, 5 and 10.
 - (6) New Zealand Government, Government Response to the Report of the Māori Affairs Committee on its Inquiry into the tobacco industry in Aotearoa and the consequences of tobacco use for Māori (Final Response) (2011), 4-5.
 (7) Ibid -4.
 - (7) Ibid, 4.
 (8) Health Promotion Agency, Smokefree Actearoa 2025 (9 June 2019) https://www.smokefree.org.nz/smokefree-in-action/smokefree-actearoa-2025

Therefore on this date, there was a 24% increase on the duty for loose tobacco and on higher-weight manufactured tobacco and a 10% increase for all other tobacco products. The legislation also provided for two further cumulative 10% increases to the duty for all tobacco products along with CPI indexation.⁽¹¹⁾

With the commencement of the *Customs and Excise* (*Tobacco Products – Budget Measures*) *Amendment Act* 2012, a further 4 cumulative 10% increases were made to the duties on all tobacco products for 2013, 2014, 2015 and 2016 with annual CPI indexation.⁽¹²⁾ The Government continued this trend with the *Customs and Excise* (*Tobacco Products – Budget Measures*) *Amendment Act* 2016 which imposed yet another 4 cumulative 10% increases to the duties on all tobacco products for 2017, 2018, 2019 and 2020.⁽¹³⁾

Following the repeal of the *Customs and Excise Act 1996*, the *Customs and Excise Act 2018* now carries over these cumulative increases for 2019 and 2020.⁽¹⁴⁾

Smoke-free Environments Act (SFEA)

Enacted in 1990, the purpose of the Smoke-free Environments Act (SFEA) purposes was to prevent the detrimental effects of smoking in public places on nonsmokers and reduce social approval of tobacco use (particularly among young people), by imposing controls on the marketing, advertising and promotion of tobacco products and their association through sponsorship with other products and events, and to reduce some of the harmful effects of tobacco products on the health of users by monitoring and regulating the presence of harmful substances in the products and in tobacco smoke.⁽¹⁵⁾

SFEA provides firstly for smoke free workplaces and public areas.⁽¹⁶⁾ With some exceptions, SFEA bans smoking in workplaces and at schools and early childhood education and care centres.⁽¹⁷⁾ SFEA also prohibits smoking on aircraft, passenger service vehicles, certain travel premises, and areas that are not open in licensed premises, restaurants, casinos and gaming machine venues.⁽¹⁸⁾

- MOH, Vaping and smokeless tobacco (12 September 2018) https://www.health.govt.nz/our-work/preventative-health-wellness/tobacco-control/vaping-and-smokeless-tobacco>.
- (10) Excise and Excise-equivalent Duties Table (Tobacco Products) Amendment Act 2010 ss 3 and 5 and Schedule.
- (11) Excise and Excise-equivalent Duties Table (Tobacco Products) Amendment Act 2010 s 8; Customs and Excise Act 1996 s 79AA.
- (12) Customs and Excise (Tobacco Products Budget Measures) Amendment Act 2012 ss 4, 5 and 6; Customs and Excise Act 1996 ss 79(3A) and 79AB.
- (13) Customs and Excise (Tobacco Products Budget Measures) Amendment Act 2016 ss 4 and 5; Customs and Excise Act 1996 ss 79(3B) and 79AD.
- (14) Customs and Excise Act 2018 s 11 and Schedule 3 items 21 and 22.
- (15) SFEA s 3A.
- (16) SFEA pt 1.
- (17) SFEA ss 5, 5A, 6 and 7A.
- (18) SFEA ss 8, 9, 11,12, 13, 13A and 13B.



Successive governments have applied additional tobacco regulations in order to reduce smoking prevalence

Smoke-free Environments Act (SFEA) (cont.)

Secondly, SFEA imposes controls on the marketing, advertising and promotion of tobacco products and sponsorships by the tobacco industry.⁽¹⁾ These controls include a ban on tobacco product supplies to people who are under 18,⁽²⁾ regulations imposing health warning labelling requirements for tobacco packages,⁽³⁾ tobacco product display and point of sale restrictions,⁽⁴⁾ and annual tests of constituents of manufactured cigarettes and their smoke.(5)

Local authority smoke free policies

Local authorities have sought to create smoke free public areas. For example, in 2013 Auckland Council adopted a smoke free policy extending to parks and other outdoor places. From November 2017, the Auckland Council started focusing on identifying activities to make further public spaces smoke free including plazas, outdoor dining areas and beaches.(6)

The council has proposed three activity streams:⁽⁷⁾

- By the people, for the people: community-led projects to build smokefree communities
- Activate smokefree public places: activation will involve fun, high profile activities in places that are popular with priority audiences
- · Switch to quit: create supportive environments for smokers who want to quit by switching to vaping. Vaping is emerging as an innovative stop smoking tool.

Standardised packaging

On 14 March 2018, the Smokefree Environments (Tobacco Standardised Packaging) Amendment Act 2016 and new Regulations⁽⁸⁾ came into force and require the standardised appearance of tobacco products and packages.⁽⁹⁾

These laws only permit packages that have outer surfaces with a matt Pantone 448C background colour.(10) Limitations as to the features and dimensions of, and the content in the packages (20 or 25 cigarettes, or 30 or 50g manufactured tobacco) apply under these laws.(11)

Sources: (1) SFEA pt 2.

- (2) SFEA ss 30 and 30AA
- SFEA s 39; Smokefree Environments Regulations 2017 pt 1 and 2. (3)
- SFEA ss 22, 23 and 23A. (4)
- (5) SFEA s 33 and Smokefree Environments Regulations 2017 reg 62.
- Auckland Council, Implementation Plan of the Council's Smokefree (6) Policy 2017-2025 (October 2017), 1-2.
- (7) Environment and Community Committee, Aukland Council, April 2019. (8)
- Smokefree Environments Regulations 2017.
- Smokefree Environments (Tobacco Standardised Packaging) Amendment Act 2016 ss 2 and 6 ; SFEA ss 31A and 32(1); and (9) Smokefree Environments Regulations 2017 req 2 and parts 1 and 2. (10) Smokefree Environments Regulations 2017 req 38.
- (11) Smokefree Environments Regulations 2017 req 39-41 and 44-51.

The laws also impose restrictions on the permitted characteristics of cigarettes and tobacco.(12) These standardised packaging laws increase the size of messages required on tobacco packages relating to the harmful effects of tobacco products.(13) In addition, the laws tightly control the displays of other information on the packaging. The controls include limiting text and alphanumeric markings to a single Pantone Cool Gray 2C colour, a normal weighted Lucida sans typeface, and prescribed punctuation.⁽¹⁴⁾ These controls in particular affect brand and variant names, which also must comply with restrictions on where and how they may appear on the packaging.(15)

Reduction in home grown allowance

From 1 July 2019, the amount of tobacco grown at home that adults may manufacture has decreased from 15 kilograms to 5 kilograms.⁽¹⁶⁾ According to Customs, this will not affect most people who legitimately grow and manufacture tobacco for their own use; the allowance of 5 kg a year equates to 19 - 34 cigarettes a day, whilst the average roll your own smoker consumes 14 cigarettes a day.(17)

Future legislation 4.2

Moves to regulate vaping products and smokeless tobacco products

On 12 March 2018, the District Court of New Zealand held that PMNZ's 'HEETS' product(18) was not a product for chewing or for any other oral use as contemplated by section 29 of SFEA. Accordingly, the sale of HEETS in New Zealand was permitted.(19)

In light of this court decision, MOH considers that vaping products and smokeless tobacco products, other than those that are chewed or 'parked' in the mouth, may be lawfully sold in New Zealand. An implication of this also includes ban on sales to minors and restrictions on advertising.(20)

- (12) Smokefree Environments Regulations 2017 req 29, 30, 42 and 43.
- (13) Smokefree Environments Regulations 2017 pt 1 and Schedule 3.
- (14) Smokefree Environments Regulations 2017 req 31
- (15) Smokefree Environments Regulations 2017 req 32.
- (16) Customs and Excise Act 2018 2, 9 and 67 and Schedule 1 item 6. (17) New Zealand Treasury, Regulatory Impact Statement, Customs and Excise Act Review: Changes to Tobacco Excise (15 September
- 2015), [4]. (18) HEETS is a specially designed heated tobacco unit for use in PMNZ's tobacco heating system IQOS.
- (19) MOH v Phillip Morris (New Zealand) Limited [2018] NZDC 4478 (12
- March 2018). (20) MOH, Impact Statement: Supporting smokers to switch to significantly less harmful alternatives (October 2018), 7.



Successive governments have applied additional tobacco regulations in order to reduce smoking prevalence

Moves to regulate vaping products and smokeless tobacco products (cont.)

At the end of 2018, MOH announced that it will introduce legislation to regulate vaping and smokeless tobacco products.⁽¹⁾ For these products, the legislation is expected to introduce a product notification system, product safety requirements, restrictions on marketing and sale, and possible packaging requirements.⁽²⁾

The Smoke free Environments and Regulated Products (Vaping) Amendment Bill was introduced on 24 February, 2020. Currently it is in the "Select Committee" phase and the report is due on 2 June, 2020.⁽³⁾

Sources: (1) Hon Jenny Salesa (Associate Minister of Health), Supporting smokers to switch to significantly less harmful alternatives (24 November 2018).

(2) MOH, Impact Statement: Supporting smokers to switch to significantly less harmful alternatives (October 2018), 35.

(3) New Zealand Parliament, Smokefree Environments and Regulated Products (Vaping) Amendment Bill.



Regulation and taxation

A number of regulations have been imposed to reduce smoking in New Zealand

Figure 4.1: Tobacco regulation timeline in New Zealand, 1963 – 2019

	7	1963		
National: Ban on advertising through television and radio.		1903	 -{ ●	National: Introduction of health warnings on cigarette packets.
National: SFEA commences to regulate the marketing and advertising and promotion of tobacco products.	╞╼	1990 2004	₩+₩ +₩	National: Smokefree Environments Amendment Act 2003 required all licensed premises and workplaces become smoke free indoors in New Zealand.
International: New Zealand signs WHO Framework Convention on Tobacco Control (FCTC). ⁽¹⁾		2005	₹ ₹ ₩	National: The Smoke-free Environments Regulations 2007 issued to provide specifications for tobacco product
National: The Excise and Excise-equivalent Duties Table (Tobacco Products) Amendment Act 2010 commences increasing the excise on tobacco above the rate of inflation; the legislation resulted in one-off 25% increase in certain tobacco duties.	 •	2010 2011	+ + +	National: Adoption of a goal known as 'Smokefree 2025' with the first recommendation to ensure progress towards the longer term goal of making New Zealand a smoke free nation by 2025.
National: Customs and Excise (Tobacco Products – Budget Measures) Amendment Act 2012 increased tobacco duties by cumulative 10% for 2013, 2014, 2015 and 2016.	 •	2012 2013		National: New Zealand required removal of point-of-sale tobacco displays concurrently with increased penalties for selling tobacco to minors.
National: Duty free tobacco allowances cut from 200 cigarettes or 250 grams of tobacco to 50 cigarettes or 50 grams of tobacco products.]	2014		National: 10% increase in excise in 2011 and 2012. Local council laws: Smokefree Policy 2017 - 2025
National: Customs and Excise (Tobacco Products – Budget Measures) Amendment Act 2016 increased]	2015	⊥ [∟]	adopted in Auckland Council, extending to parks and other outdoor places.
tobacco duties by cumulative 10% for 2017, 2018, 2019 and 2020.		2016	+	National: Government has proposed new legislation to regulate the sale and supply of nicotine e-cigarettes and e-liquid as consumer products.
Local council laws: Auckland Council's Smokefree Policy 2017 – 2025 identified future smoke free spaces as well as activities for making public places smoke free.		2017 2018	↓ ↓	National: Smokefree Environments (Tobacco Standardised Packaging) Amendment Act 2016 along with new Regulations requires the standardised appearance of tobacco products and packages.
Key: Manufacturer regulation Smokefree environment Excise Duty Allowance				National: <i>The Customs and Excise Act 2018</i> reduces the home grown allowance for manufacture of home grown tobacco from 15 kg per year to 5 kg from 1 July 2019.

Source: (1) United Nations, Status as at 15 December 2018 for WHO Framework Convention on Tobacco Control.

КРМС

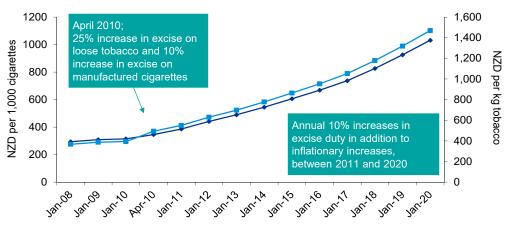
International action

Regulation and taxation

In addition to a 25% excise increase in 2010, excise rates have increased annually since 2011

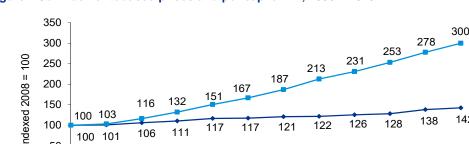
4.3. Tobacco and excise duties and tobacco affordability in New Zealand

Figure 4.3a: Rates of tobacco excise, January 2008 – January 2020^{(1)(a)}





Between 2008 and 2009 tobacco excise duty increased at a similar rate to the rate of inflation (i.e. 3.5% p.a.). When the Excise and Excise-equivalent Duties Table (Tobacco Products) Amendment Act 2010 was introduced, this signalled a large increase in excise duty.⁽²⁾ The largest increase was a 25% increase on loose tobacco and higher weight manufactured cigarettes in April 2010. This was intended to align those duties with the duties on lower weight manufactured cigarettes.⁽³⁾ Further 10% increases (in addition to inflationary increases) have occurred on all tobacco products each year between 2011 and 2020.



117

111

2011

106

2010



 Index of PDI per capita Index of tobacco prices The excise tax increases since 2010 have contributed towards tobacco prices increasing at a higher rate than PDI per capita. The increases have resulted in a decline in relative affordability when compared to previous years.

2012 2013 2014 2015

121

Each year the new excise rate is calculated by applying any increase as stipulated by the Government, plus the official CPI rate. Notes: (a)

117

Indexed with 2008 values taken as 100. (b)

100

50 0 2008

(c) Historical numbers have been updated and have been based on data from Euromonitor, accessed on 29th January 2020.

Sources: (1) Excise data supplied by the industry.

100 101

2009

Excise and Excise-equivalent Duties Table (Tobacco Products) Amendment Act 2010 ss 3 and 5 and 5 chedule; Excise and Excise-equivalent Duties Table (Tobacco (2)Products) Amendment Act 2010 s 8; Customs and Excise Act 1996 s 79AA; Customs and Excise (Tobacco Products – Budget Measures) Amendment Act 2012 ss 4, 5 and 6; Customs and Excise (Tobacco Products - Budget Measures) Amendment Act 2016 ss 4 and 5; Customs and Excise Act 2018 s 11 and Schedule 3 items 21 and 22

142

2019

138

126

122

128

2016 2017 2018

New rates for tobacco and tobacco products, December 2018, New Zealand Custom Service, Te Mana Arai O Aotearoa (3)

- Euromonitor, annual disposable income per capita, accessed January 2020
- Euromonitor, index of tobacco prices, accessed January 2020. (5)

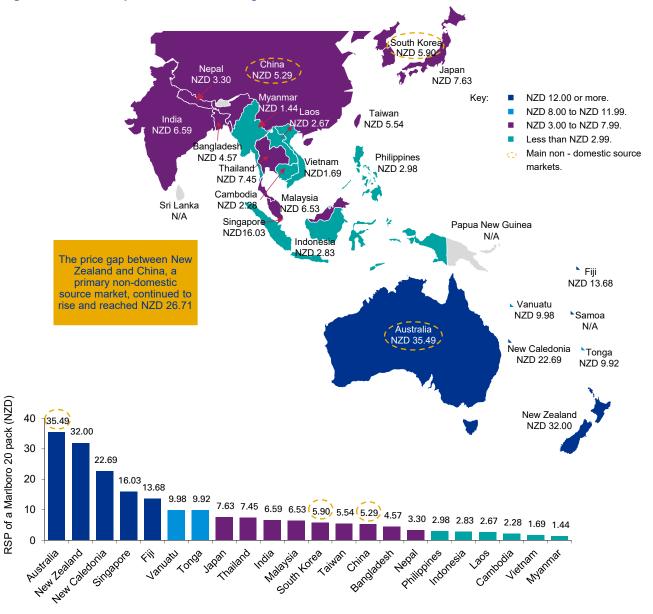


Regulation and taxation

New Zealand has the second highest cigarette prices in the Asia Pacific region

4.4 Relative regional price of tobacco

Figure 4.4: Price of a pack of 20 Marlboro cigarettes - New Zealand and selected markets, 2019^{(1)(2)(a)(b)}



New Zealand is the second most expensive cigarette market in the Pacific and South East Asia. Prices are approximately 41% higher than the third most expensive market in the region.

This large price differential between New Zealand and other relatively nearby markets provides an economic incentive for smuggling opportunities for those involved in the illicit market.

Notes: (a) Pri	rices for a 20 cigarette pack of Marlboro	(taxes included);	where Marlboro is not available,	a comparable premium brand has been used.
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(b) Based on prices as per Illicit Tobacco in Australia Report, 2019. Prices have been converted from AUD into NZD at an exchange rate of 1.07.

Sources: (1) Illicit Tobacco in Australia Report, 2019 (KPMG). (2) Global Fiscal Information Solutions, Oct 2019.





5. Size of the illicit tobacco market

- 5.1 Estimating the illicit tobacco market
- 5.2 Illicit tobacco consumption in New Zealand
- 5.3 Enforcement context

The approach to estimate the size of the New Zealand illicit tobacco market is globally consistent, methodical and robust

5.1 Estimating the illicit tobacco market

Methodology and validation

As discussed in section 2.1, the illicit tobacco market is split into unbranded tobacco and illicit manufactured cigarettes. Both of these categories are taken together to form total illicit tobacco consumption. It is therefore important to take account of all consumption flows when assessing the amount of illicit tobacco consumed.

The chart below illustrates how KPMG breaks consumption into a number of categories (defined in Section 2.1) and how each category requires different data sources to estimate the size of the market and to validate the findings.

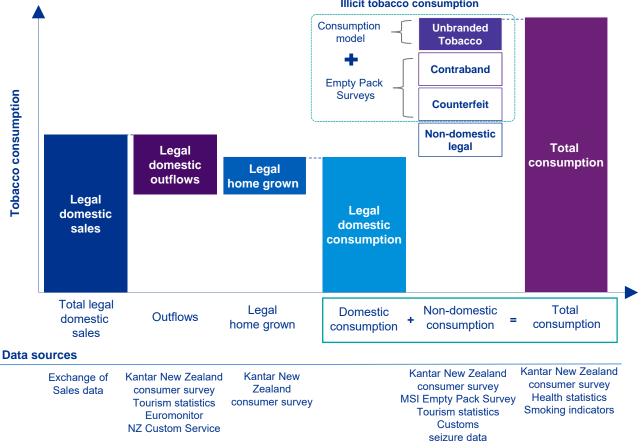
For each of these categories a separate primary approach is used in order to estimate the volume of illicit tobacco. For unbranded tobacco, a consumption model, based on results from a consumer survey is used. The consumption model includes loose tobacco sold in unbranded plastic bags or in the form of pre-rolled cigarettes.

Figure 5.1a Estimation of the illicit market^(a)

For illicit manufactured cigarettes an Empty Pack Survey (EPS) analysis is used, based on the collection of discarded cigarette packs across New Zealand. This approach has been used consistently in other markets including Australia over the past seven years, and this is the third time it is being used in New Zealand.

We believe this approach provides an estimate of the size of the illicit market in New Zealand that is as robust as possible within current research techniques. However, to further increase the level of confidence in this estimate, alternative approaches are used to validate the illicit tobacco volumes generated by the consumption model and the EPS analysis.

In this section each of the approaches is described before the process of estimation and validation is explained. A detailed overview of these approaches can be found in appendix A1 and A2.



Illicit tobacco consumption

(a) Definitions for the above sales categories can be found in the glossary on page 3 and page 4. Note:



We have used a broad range of approaches to produce an estimate for the size of the illicit tobacco market

5.1 Estimating the illicit tobacco market (cont.)

Primary approach

Consumption model

This approach is based on the responses of consumers to the surveys conducted by Kantar New Zealand in Q2 2019 and Q4 2019. The surveys are commissioned by British America Tobacco New Zealand (BATNZ), Imperial Tobacco New Zealand (ITNZ) and Philip Morris (New Zealand) Limited (PMNZ).

Survey participants represent the demographic, geographic and social factors that characterise New Zealand's population. The survey asks consumers about their consumption of both legal and illicit tobacco consumption. These survey responses are combined with other data sources by KPMG to arrive at an estimate for total illicit tobacco consumption. Consumers are asked about both illicit tobacco consumption (unbranded tobacco and manufactured cigarettes) and legal home grown tobacco.

The survey was developed using qualitative interviews. The primary insights gained from this qualitative research was an understanding of how consumers refer to illicit products. Detailed results of the consumer survey are discussed in section 6.

Empty Pack Survey (EPS)

An EPS is a study undertaken independently by MSIntelligence (MSI) who collect 2,109 discarded cigarette packs per survey across the top six populated cities (Tauranga was added as a population centre in 2019 to improve the representativeness of the EPS) in New Zealand. The EPS was conducted in Q2 and Q4 in 2019. The brand and country of origin of each collected pack is assessed by MSI to determine whether it is a domestic or non-domestic product. Products from different countries of origin are labelled as non-domestic. The collected packs are then sent to the participating manufacturers for analysis to determine genuine and counterfeit packs. KPMG uses the EPS results to extrapolate overall consumption in the market. The percentages of nondomestic and counterfeit packs are applied to the volume of legal domestic sales in order to establish the total consumption of manufactured cigarettes in New Zealand.

The EPS approach provides an objective and statistically representative estimate of the size of the illicit manufactured cigarette market. The results are not subject to respondent behaviour and are therefore less prone to sampling errors than many other alternative methodologies. The six cities covered by the sample plan covers the equivalent of 55% of New Zealand's population. A small proportion of non-domestic cigarettes are likely to have been brought into New Zealand legally by New Zealanders travelling overseas or by tourists and permanent and long-term migrants arriving in New Zealand. Travel statistics from Statistics New Zealand are used by KPMG in order to estimate the likely volume.

An analysis of the amount of non-domestic legal brought into New Zealand by these two groups can be found in Appendix A4. Areas that are typically frequented by tourists and international students (e.g. sports stadia, tourist attractions, railway stations) are excluded from the EPS to avoid over-estimating non-domestic legal consumption and to provide a representative sample of the local population's consumption.

These non-domestic legal cigarettes are removed from the total non-domestic volume by KPMG, which leaves the total estimated illicit manufactured cigarette market, split into contraband and counterfeit cigarettes as described in section 2.

The empty pack surveys have been jointly commissioned by the industry (BATNZ, ITNZ and PMNZ). Prior to 2019, surveys were also run in Q2 2014, Q2 2015, Q2 2016, Q2 2017, Q4 2017, Q2 2018 and Q4 2018 which have been made available to KPMG for use in this report. The methodology and sample walking routes were consistent with those used in 2019.

For the purpose of this report, EPS surveys have been conducted by MSI in Q2 and Q4 2019. The results from these surveys have been used to arrive at an estimate for the illicit manufactured cigarette consumption for 2019. This method is consistent with the approach used by KPMG in Project Stella to assess the level of counterfeit and contraband cigarettes across the EU Member States and our annual report on illicit consumption in Australia. It is a widely accepted method for measuring the illicit market.

Means of validation

Interceptions data

Interceptions data obtained from the New Zealand Customs Service shows the volume and type of tobacco intercepted at ports, airports etc. Using interceptions data to size the illicit market is often unreliable as it is difficult to ascertain the proportion of total illicit product that is seized.

Whilst interceptions data is unlikely to generate an accurate estimate for the illicit tobacco market, the size and volume of individual interceptions can indicate the likely scale of the illicit market. The average size of interceptions can indicate whether illegal smuggling is opportune and small-scale or part of a more sophisticated international criminal network.



The validation of our measurements with additional data sources provides confidence in the results

5.1 Estimating the illicit tobacco market (cont.)

Figure 5.1b Overview of methodology for estimating illicit tobacco

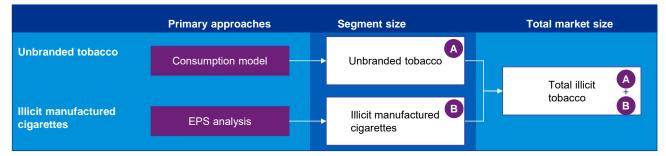


Figure 5.1b shows the process by which the consumption model and EPS analysis is used to estimate the size of the illicit tobacco market

Unbranded tobacco: The consumption model uses data from the Kantar New Zealand consumer survey, external data sources such as the MOH tobacco returns data and the Health of New Zealand Adults data on smoking prevalence. We consider it to be the best way of sizing the unbranded tobacco market.

B Illicit manufactured cigarettes: The EPS, conducted in New Zealand by MSIntelligence, is the most reliable measure of contraband and counterfeit. It also forms the foundation for our Australian report⁽¹⁾ and Project Stella, formerly called Project SUN (a study of illicit tobacco consumption in the EU, UK, Norway and Switzerland).^(a)

A+B Total illicit tobacco: The total illicit tobacco market size estimate is calculated by adding the results of the validated EPS analysis for manufactured cigarettes (i.e. contraband and counterfeit) with the output of the validated consumption model for unbranded tobacco. The results are presented in kilograms to show total consumption of both loose tobacco and manufactured cigarettes.

Note: (a) A study of the illicit cigarette market in the European Union by KPMG.

(b) The scope of the report only includes assessment of manufactured cigarettes and loose tobacco. It does not cover the next generation products such as vapes and heated tobacco.

Source: (1) Illicit Tobacco in Australia Report, 2019 (KPMG).



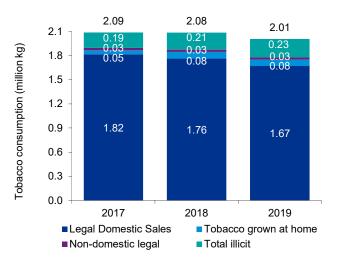
A

Size of the illicit tobacco market

The growth in the consumption of unbranded tobacco has largely offset the decline in manufactured cigarettes sales

5.2 Illicit tobacco consumption in New Zealand

Figure 5.2a: Consumption of tobacco products by category, 2017 -2019^{(1)(2)(a)(b)(c)}

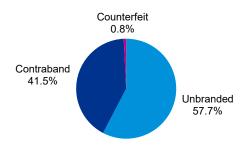


Million kg	2019	% of total consumption	% change (2018- 2019)
Counterfeit	0.002	0.1%	(17.9%)
Contraband	0.10	4.8%	(45.3%)
Unbranded Tobacco	0.13	6.6%	275.2.%
All illicit product	0.23	11.5%	8.4%
Tobacco grown at home	0.08	3.9%	(3.5%)
Non-domestic legal	0.03	1.3%	(4.0%)
Legal domestic sales	1.67	83.3%	(5.2%)
Total consumption	2.01		(3.8%)

The total level of tobacco consumption in New Zealand was estimated to be 2 million kg in 2019. Of this total consumption, 1.8 million kg was estimated to be legal consumption (legal consumption includes legal domestic sales, non-domestic legal and tobacco grown at home).

Whilst all the categories of tobacco experienced a decline in consumption in 2019, unbranded tobacco showed a large increase. The volume of legal domestic sales declined by 5.2% between 2018 and 2019.

Figure 5.2b: Share of illicit tobacco consumption, 2019^{(1)(a)(b)(c)}



In 2019, 11.5% of total consumption was calculated to be illicit, an increase of 1.3 percentage points from 2018.

Unbranded tobacco was the largest component of illicit consumption in 2019, representing a share of 6.6% of total consumption. Contraband represented 4.8% of total consumption, a 3.6 percentage point decrease from 2018. Counterfeit continued to remain a very small component of illicit tobacco consumption (i.e. 0.8%).

Domestic Illicit Whites continued to have no presence in New Zealand in 2019. However, a small flow of nondomestic Illicit Whites, representing 0.13% of total consumption, was identified. This volume of Illicit Whites is included in our estimate of contraband consumption.

The increase in unbranded tobacco was offset by the decline in all other categories of tobacco consumption leading to an overall decline in total consumption in New Zealand.

Notes: (a) Contraband includes volumes of Illicit Whites.

- (b) The 2019 figures are based on the blended results of Q2 2019 and Q4 2019 using the weighted number of cigarettes.
- (c) Numbers in the table and chart may not sum due to rounding.
- (d) Due to lack of data points unbranded tobacco consumption and tobacco grown at home are reported only for Q4 2017 (and not Q2 2017). For 2018, results from Q2 2018 survey were excluded from the analysis.
- (1) Industry data; see specific report sections for further detail.
- (2) KPMG analysis of IRI EoS data, 2012 2019.



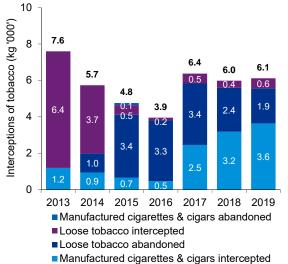
Source:

Size of the illicit tobacco market

The volume of illicit tobacco intercepted showed a small increase

5.3 Enforcement context





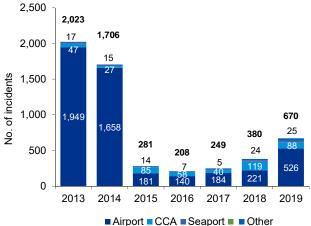
In particular, we observe a large decline in the amount of loose tobacco intercepted versus the amount abandoned. This may be due to changes in the way tobacco was collected and reported following the reduction in the duty free allowance in November 2014 (see box below).

In 2019, the increase in volume of tobacco intercepted was driven primarily by an increase in the volume of manufactured cigarettes & cigars intercepted.

The Customs Services intercept tobacco at airports, mail centres, seaports and Controlled Customs Areas (CCAs).^(e) Other locations where tobacco may be intercepted include customhouse, commercial premises and residential premises. The highest number of incidents occur at airports.

The number of incidents from which tobacco was intercepted by the New Zealand Customs Service in

Figure 5.3b: Number of tobacco interception incidents, 2013-2019^{(1)(a)(b)(d)}



2019 has declined by 67% since 2013, but has increased at a CAGR of 24% since 2015. It is likely this is due to changes in the way tobacco was collected and reported following the reduction in duty free allowance in November 2014. Whilst the number of interceptions grew by 76% in 2019, the volume of tobacco intercepted increased only by 2% when compared to 2018. This suggests a greater number of smaller interceptions with the average volume per interception falling from c.16kg in 2018 to c.9kg in 2019.

Key Seizures - 2019 July: 2,418 cartons of cigarettes (483,600 individual cigarettes) were seized, equalling an evaded duty of \$537,542⁽²⁾ November: 79.6kg of tobacco was seized equalling to \$113,422 in evaded duties⁽³⁾

December: A businessman was arrested for smuggling 28 million cigarettes into Auckland and avoiding excise duties of over \$25 million between 2015 to 2019⁽⁴⁾

Pre-1 November 2014, if passengers arrived and were found to have in excess of the duty free limit, they had the option to pay the duty and GST. If they decided not to pay, the customs officers had to create an activity report of an intercept and the product would be seized. However, when the duty free allowance was reduced in November 2014, amnesty bins were placed at airports so that travellers had the opportunity to throw excess quantities into the bins. This tobacco was now classified as abandoned and not recorded as an interception incident. This may help to explain why there was shift from interceptions to abandonment and the number of interceptions dropped significantly.

Notes: (a) When Customs finds prohibited goods or goods that have been undeclared, mis-declared or undervalued for revenue evasion purposes at the border, it is referred to as an 'interception'.

- (b) Cigarette sticks have been translated into kg of tobacco based on a conversion rate of 0.8g per stick.
- (c) Data labels less than 0.1 have been removed from the chart for clarity. Volume of manufactured cigarettes & cigars abandoned is 0 kgs in 2019
 - (d) 2017 data label of value 5 for 'Seaport' and some data labels with values less than 10 of 'Other' category have been removed for clarity.

- Source: (1) New Zealand Custom Service.
 - (2) Auckland man arrested for smuggling 483,600 cigarettes.
 - (3) Customs busts family-based tobacco smuggling ring, NZ Herald, November 2019.
 - (4) Cigarette smuggling operation brought 28 million smokes into NZ, Stuff, December 2019.



⁽e) Customs Controlled Area (CCA) is a secure and controlled environment in which the activities that take place are monitored or conducted by Customs. This includes places where goods are inspected and where duty free or excisable goods are manufactured, sold or stored.



- 6.1 Consumer survey results
- 6.2 EPS results

The consumer survey is conducted by Kantar New Zealand and is conducted via telephone and the internet

6.1 Consumer survey results⁽¹⁾

6.1.1 Kantar New Zealand overview

The consumer survey is primary research carried out to establish the size of the illicit tobacco market in New Zealand. The survey, commissioned by the industry (BATNZ, ITNZ and PMNZ), was carried out by Kantar New Zealand.

Kantar is a global data, insight and consultancy company and part of WPP. Kantar has been conducting the consumer survey annually for the industry since 2013.^(a) Prior to this, they had conducted three surveys for BATNZ, the first of which was completed in 2009.

Kantar New Zealand Survey Attrition Chart for Q4 2019

Computer Aided Web Interview (CAWI)

The consumer survey interview script was informed by consumer insights obtained from qualitative research undertaken by Kantar New Zealand. Respondents were also asked about their awareness and consumption of illicit tobacco products.

The fieldwork took place between 23rd May and 10th July for Q2 2019, 8th November and 14th December for Q4 2019 and was conducted via telephone and the internet. This is in order to provide a balanced sample, as the online panel for CAWI is skewed towards premium brand FMC smokers, whereas the CATI sample gives better coverage of RYO and the value end of FMC. Both methods sampled people previously identified as adult smokers.

Computer Aided Telephone Interview (CATI)



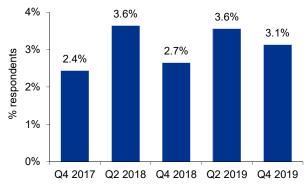
Note: (a) Results from consumer surveys prior to 2017 have not been included in this report as the questions used were not consistent with those used in 2017, 2018 and 2019.
 Source: (1) Kantar New Zealand Research, Consumer survey: quantitative and qualitative findings, Q4 2019.

KPMG

The consumer survey suggests a large increase in the frequency of purchase

6.1.2 Purchasers of unbranded tobacco

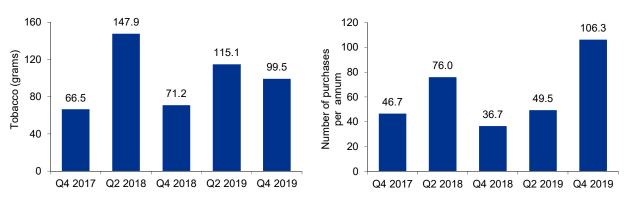
Figure 6.1.2a: Respondents who reported purchasing unbranded tobacco in the last twelve months, Q4 2017-Q4 2019^{(1)(a)(d)}



Approximately 3% of total respondents reported having purchased unbranded tobacco in the past 12 months in Q4 2019. The majority (53%) reported that the tobacco was bought through friends, family or acquaintances.⁽¹⁾ Price was cited as the main reason for purchase, with (42%) of respondents buying unbranded tobacco because it is cheaper than alternatives.

Figure 6.1.2b: Average volume purchased (grams) per occasion, Q4 2017-Q4 2019^{(1)(a)(b)(c)(d)}

Figure 6.1.2c: Average frequency of purchase per annum, Q4 2017-Q4 2019^{(1)(a)(d)}



By multiplying the average volume purchased with the average number of purchases per annum, the average annual consumption of unbranded tobacco is calculated. The proportion of people purchasing unbranded tobacco and the average value purchased are in line with historic trends. However, the survey suggests that on average consumers of unbranded tobacco are purchasing it twice a week. This is much higher than historic results and does seem extremely high relative to previous findings. This combined with the results seen in Q2 2018 suggests the survey is prone to some volatility in findings.

Having revaluated the Q2 2018 survey results in line with a range of indicators (i.e. the implied impact on consumption, government smoking prevalence indicators, the rate of decline in legal sales etc.) we have continued to exclude the Q2 2018 results from the unbranded estimate as we believe it overstates illicit consumption.

Notes: (a) Responses are based on CATI and CAWI surveys.

- (b) Based on the volume purchased at time of last purchase.
 - (c) Conversion of cigarettes to kilograms is based on 0.80 grams = 1 manufactured cigarette.
- (d) Due to lack of data points unbranded tobacco consumption and tobacco grown at home are reported only for Q4 2017 (and not Q2 2017). For 2018, results from Q2 2018 survey were excluded from the analysis.
- Source: (1) Kantar New Zealand Research, Consumer survey: quantitative and qualitative findings, Q4 2017, Q2 2018, Q4 2018, Q2 2019 and Q4 2019.



The Q4 2019 survey indicated that approximately 3.8% of respondents grew tobacco in the last 12 months

6.1.3 Tobacco grown at home

Figure 6.1.3a: Proportion of respondents who were aware of home grown allowance limit, Q4 2017-Q4 2019^{(1)(a)(b)(c)(d)}

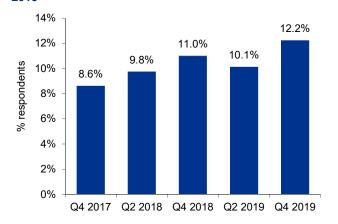
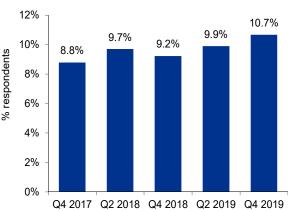
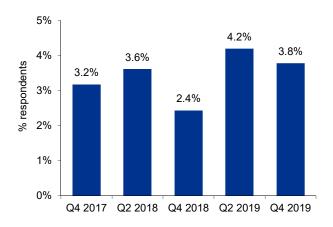


Figure 6.1.3b: Proportion of respondents who have ever grown tobacco from plant or seed, Q4 2017-Q4 2019^{(1)(a)(b)(c)(d)}



35

Figure 6.1.3c: Proportion of respondents who have grown tobacco from plant or seed in the last twelve months, Q4 2017-Q4 2019^{(1)(a)(b)(c)9d)}



According to the results of Kantar's consumer survey for Q4 2019, ~12% of respondents are aware of the home grown allowance which is a 2.1 percentage point increase from previous quarter. The home grown allowance limit decreased to 5 kg per annum form 1 July 2019 from 15 kg per annum previously. The survey suggests that 3.8% respondents reported to have grown tobacco in the last twelve months, a 0.4 percentage point decline from Q2 2019.

Notes: (a) Responses are based on CATI and CAWI surveys.

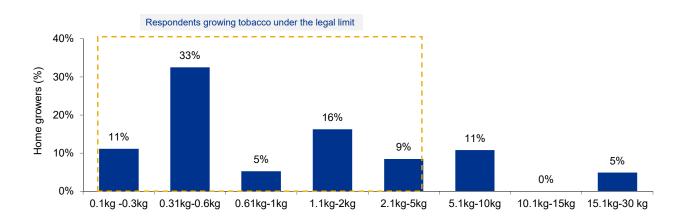
- (b) Total sample of 2,004 and 2,017 weighted respondents for Q2 2019 and Q4 2019 respectively.
- (c) Based on the volume purchased at time of last purchase.
- (d) Due to lack of data points unbranded tobacco consumption and tobacco grown at home are reported only for Q4 2017 (and not Q2 2017). For 2018, results from Q2 2018 survey were excluded from the analysis.
- Source: (1) Kantar New Zealand Research, Consumer survey: quantitative and qualitative findings, Q4 2017, Q2 2018, Q4 2018, Q2 2019 and Q4 2019.



16% of respondents reported growing over the 2018 legal limit of 5 kgs in Q4 2019 compared to 10% in Q2 2019

6.1.3 Tobacco grown at home (cont.)

Figure 6.1.4d: Average quantity grown at home, Q4 2019 (1)(2)(a)(b)



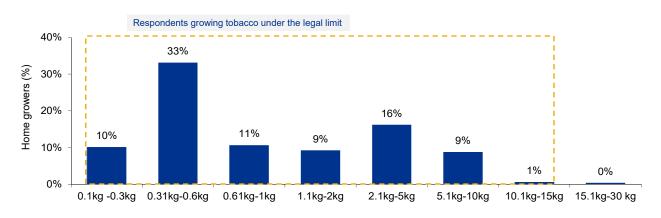


Figure 6.1.4e: Average quantity grown at home, Q2 2019 (1)(2)(a)(b)

In Q4 2019, most of the home growers in the consumer survey grew less than 2 kilograms, with 16% of the home growers reporting that they grew more than the 2019 legal limit of 5 kilograms, a 6 percentage point increase from the previous quarter. The average amount of tobacco grown at home per annum equates to a total of 4.8 kilograms. This is below new manufacturing allowance of 5 kilograms. Under the *Customs and Excise Act 2018*, adults may manufacture up to 5 kilograms of this tobacco for their personal use without having to pay excise duty.

Following the change in the legal home grown allowance, the survey suggests that 3,230 kilograms of tobacco was grown by people growing between 5 and 15 kilograms in Q4 2019. We do not know how much of this was processed into smoking tobacco (and therefore illicit) but the overall quantity only represents 0.16% of total consumption and therefore the illicit amount converted to smoking tobacco is likely less than that.

Notes: (a) Responses are based on CATI and CAWI surveys.

- (b) Conversion of cigarettes to kilograms is based on 0.80 grams = 1 manufactured cigarette
- Sources: (1) Kantar New Zealand Research, Consumer survey: quantitative and qualitative findings, Q4 2017, Q2 2018, Q4 2018, Q2 2019 and Q4 2019.
 - (2) New excise duties rates for tobacco and tobacco products, New Zealand Customs Service.



The EPS sampling plan comprises 2,109 empty packs collected across six population centres in New Zealand

6.2 EPS results

6.2.1 New Zealand EPS sampling plan⁽¹⁾⁽²⁾

The EPS analyses discarded cigarette packets that have been collected from a set area. The aim is to collect a representative sample of discarded cigarette packets that can then be analysed to provide information about the nature of consumption of manufactured tobacco products.

Empty packs are collected on a proportionate basis from a number of neighbourhoods. Packs are collected from streets and easy access public bins in areas in the sampling plan.

For the purpose of this report, an EPS was carried out by an independent market research agency, MSIntelligence (MSI) in Q2 (June) 2019, and Q4 (October-November) 2019. The Q2 and Q4 2019 EPS collection was based on a sampling plan consistent with the EPS sampling plan of previous years: 2,109 packs were collected, out of the six population centres that were covered, five remained the same as 2018. The neighbourhoods sampled also remained consistent for the five population centres.

To improve the representativeness of the EPS, Tauranga was added in 2019. The impact of adding Tauranga to the sample in 2019 has been to slightly reduce the reported level of non-domestic incidence.

Figure 6.2.1 Non-domestic Incidence, 2019

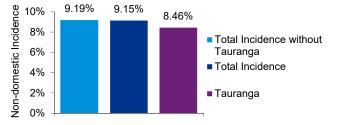


Table 6.2.1 Q4 2019 EPS sampling plan:

Population centres	Population (000's) 2019 estimate ⁽²⁾	Number of sampled neighbourhoods	Sample packs	Weighted packs
Auckland	1,643	30	1,064	1,064
Christchurch	386	10	318	318
Wellington	210	10	351	351
Hamilton	170	5	163	163
Napier-Hastings	150	3	104	104
Tauranga ^(a)	144	3	109	109
Total	2,703	61	2,109	2,109
Total population of New Zealand	4,917			

Note: (a)

Tauranga has been added as a population centre in 2019, however the impact on the overall non-domestic incidence is small, as it forms a small proportion of the total sample.

Sources: (1) MSIntelligence Research, Empty Pack Survey, Q2 2014, Q2 2015, Q2 2016, Q2 2017, Q4 2017, Q2 2018, Q4 2018, Q2 2019, Q4 2019. (2) Estimated Resident Population for Territorial Authority Areas, at 30 June (Updated Oct 2019).



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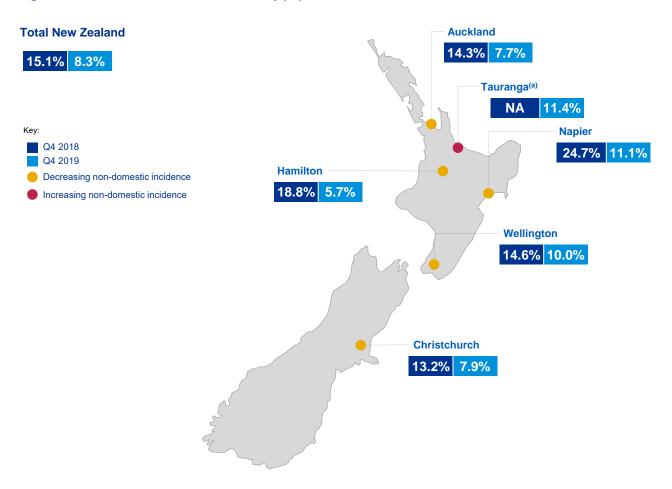
Packs are collected from pre-determined neighbourhoods, selected to be representative of the city being sampled. Similarly, the neighbourhoods selected are also consistent with the previous surveys. Packs are collected irrespective of their brand and country of origin. Collection routes specifically exclude sports stadia, shopping malls and stations, or any other locations where non-domestic incidence is likely to be higher as a result of a skewed population visiting these areas and may not be representative of local consumption.

To ensure the sample is representative, packs are weighted based on the proportion of each city's population after the collection is completed.

Founded in 2001, MSI is a private company with headquarters in Geneva, Switzerland specialising in market research. MSI has particular experience in the tobacco industry and has conducted over 1,000 EPS in more than 85 countries.

Non-domestic incidence decreased across all locations surveyed. Hamilton experienced the largest decline

6.2.2 New Zealand EPS results – Non-domestic incidence by population centre Figure 6.2.2: Total non-domestic incidence by population centre, Q4 2018 and Q4 2019⁽¹⁾



The Q4 2019 Empty Pack Survey found non-domestic packs in all population centres sampled. The sharp decrease in non-domestic incidence versus 2018 was driven by a decline in incidence in all population centres, excluding Tauranga (see Page 37).

Napier had the highest level of non-domestic incidence in both Q4 2018 and Q4 2019 (excluding Tauranga). Hamilton has seen a sharp decrease in incidence from 18.8% in Q4 2018 to 5.7% in Q4 2019.

Note: (a) Tauranga added as a new population centre in 2019

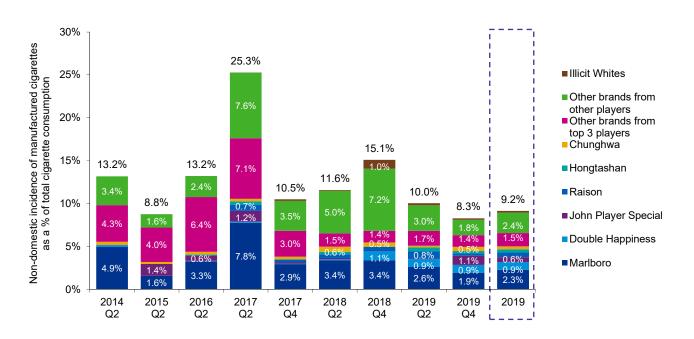
Source: (1) MSIntelligence Research, Empty Pack Survey, Q4 2018 and Q4 2019



The decrease in non-domestic incidence appears to have been caused by a reduction in the flow of most major brands

6.2.4 New Zealand EPS results - Brand flow

Figure 6.2.4: Total non-domestic incidence by brand flow as a percentage of total manufactured cigarette consumption, Q2 2014, Q2 2015, Q2 2016, Q2 2017^(a), Q4 2017^(a), Q2 2018, Q4 2018, Q2 2019 and Q4 2019^{(1)(b)(c)(d)}



Based on the blended EPS results, non-domestic incidence was 9.2% in 2019. This represents a decrease of 4.1 percentage points from 2018.

Flows of non-domestic Marlboro constituted the largest share. The flows accounted for 2.3% of total manufactured cigarette consumption in 2019. Flows of Double Happiness constituted the second largest brand flow. Whilst the flows of non-domestic Marlboro and Double Happiness have decreased between 2018 and 2019, the incidence of non-domestic John Player Special has increased a lot compared to previous results.

A decrease of 3.7 percentage points from 2018 was observed for other brands from non-top 3 players.

The share of Illicit Whites brands flows of non-domestic manufactured cigarettes consumption has decreased from 0.6% of manufactured cigarette consumption in 2018 to 0.2% in 2019.^(e)

Notes: (a) A weight of 11/12 was assigned to the Q4 2017 EPS, and a weight of 1/12 was assigned to the Q2 2017 EPS. This was done as the Q2 2017 empty pack survey coincided with World Master Games, hosted in April 2017 in New Zealand that produced a non-domestic incidence result significantly higher than that of previous results and the survey conducted in Q4 2017.

- (b) The 2019 figures are based on the blended results of Q2 2019 and Q4 2019 for 2019 using the weighted number of cigarettes.
- (c) Some figures less than 0.4% have been removed from the chart for clarity.
- (d) Numbers in the above chart may not sum due to rounding.
- (e) We have not analysed illicit white flows for 2014, 2015 and 2016.

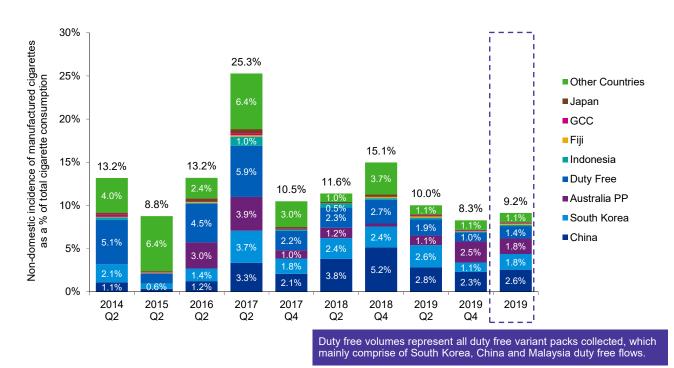
Sources: (1) MSIntelligence Research, Empty Pack Survey, Q2 2014, Q2 2015, Q2 2016, Q2 2017, Q4 2017, Q2 2018, Q4 2018, Q2 2019, Q4 2019.



Chinese, South Korean and Australian origin flows were the largest components of non-domestic incidence in 2019

6.2.5 New Zealand EPS results – Country of origin flows

Figure 6.2.5: Total non-domestic incidence by country of origin flows as a percentage of total manufactured cigarette consumption, Q2 2014, Q2 2015, Q2 2016, Q2 2017^(a), Q4 2017^(a), Q2 2018, Q4 2018, Q2 2019 and Q4 2019^{(1)(b)(c)(d)(e)}



Whilst China (including China duty free) continues to remain the largest individual source country for non-domestic manufactured cigarette flows, accounting for over 29.7% of the total non-domestic flows, these flows declined by 7.8 percentage points from 2018.

Flows of products from South Korea (including South Korea duty free) were the second largest flow from an individual country with an annual share of over 27.4% of the total non-domestic flows in 2019. This represents an increase of approximately 3.7 percentage points from 2018.^(a)

Australia was the third largest individual source country in 2019 EPS accounting for 1.8% of the total manufactured cigarette flows, an increase of 1 percentage point from 2018.^(f)

Notes: (a) A weight of 11/12 was assigned to the Q4 2017 EPS, and a weight of 1/12 was assigned to the Q2 2017 EPS. This was done as the Q2 2017 empty pack survey coincided with World Master Games, hosted in April 2017 in New Zealand that produced a non-domestic incidence result significantly higher than that of previous results and the survey conducted in Q4 2017.

(b) The 2018 and 2019 figures are based on the blended results of Q2 2018 and Q4 2018 for 2018 and Q2 2019 and Q4 2019 for 2019 and using the weighted number of cigarettes.

- (c) Some figures less than 0.4% have been removed from the chart for clarity.
- (d) Numbers in the above chart may not sum due to rounding.
- (e) Country or origin as recorded by the Empty Pack Survey.

(f) All Australian inflows in 2018 and 2019 are PP due to change in legislation in July 2017, whereas, in 2017 Australia included inflow of both branded and PP products.

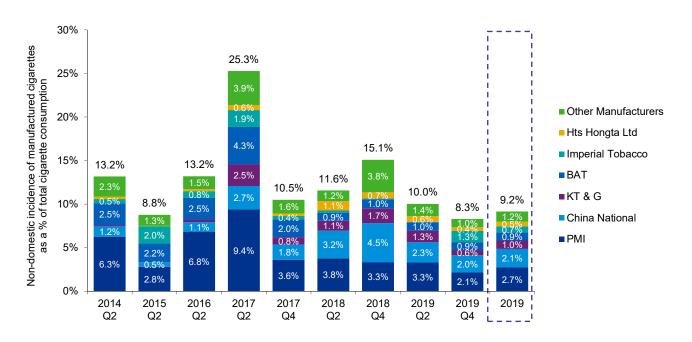
Source: (1) MSIntelligence Research, Empty Pack Survey, Q2 2014, Q2 2015, Q2 2016, Q2 2017, Q4 2017, Q2 2018, Q4 2018, Q2 2019, Q4 2019.



Flows of products trademark owned by six manufacturers accounted for the majority of non-domestic flows

6.2.6 New Zealand EPS results – Trademark owner flows

Figure 6.2.6: Total non-domestic incidence by trademark owner flows as a percentage of total manufactured cigarette consumption, Q2 2014, Q2 2015, Q2 2016, Q2 2017^(a), Q4 2017^(a), Q2 2018, Q4 2018, Q2 2019 and Q4 2019^{(1)(b)(c)(d)(e)}



The decrease in 2019 non-domestic incidence was driven primarily by a decrease in the flows of products which the empty pack survey suggested were trademark owned by PMI and China National.

Flows of non-domestic brands trademark owned by Phillip Morris International (PMI) accounted for 2.7% of all manufactured cigarettes in 2019, a decrease of approximately 0.8 percentage points from 2018.^(a)

Whilst, flows of the brands of China National products were the second largest non-domestic flow, they registered approximately 2.1% of total incidence in 2019, a decrease of 1.7 percentage points from 2018 EPS.^(a)

Notes: (a) A weight of 11/12 was assigned to the Q4 2017 EPS, and a weight of 1/12 was assigned to the Q2 2017 EPS. This was done as the Q2 2017 empty pack survey coincided with World Master Games, hosted in April 2017 in New Zealand that produced a non-domestic incidence result significantly higher than that of previous results and the survey conducted in Q4 2017.

(b) The 2019 figures are based on the blended results of Q2 2019 and Q4 2019 for 2019 using the weighted number of cigarettes.

- (c) Some figures less than 0.4% have been removed from the chart for clarity.
- (d) Numbers in the above chart may not sum due to rounding.
- (e) Trademark owner as recorded by the Empty Pack Survey

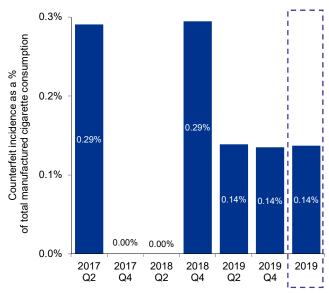
Source: (1) MSIntelligence Research, Empty Pack Survey, Q2 2014, Q2 2015, Q2 2016, Q2 2017, Q4 2017, Q2 2018, Q4 2018, Q2 2019, Q4 2019.



Illicit White and counterfeit brand flows had a low share of total manufactured cigarettes in 2019

6.2.7 New Zealand EPS results – Counterfeit flows

Figure 6.2.7: Counterfeit flows incidence as a percentage of total manufactured cigarette consumption, 2017-2019^{(1)(a)(b)(c)}

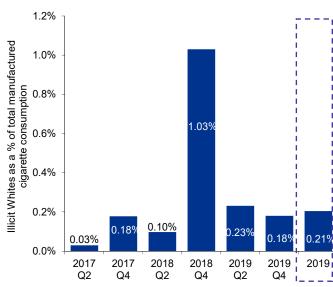


Overall in 2019, the EPS indicated that 0.14% of manufactured cigarettes consumed in New Zealand were counterfeit flows. The counterfeit flows identified in Q2 2019 and Q4 2019 were both 0.14% of the total manufactured cigarettes consumed in the respective quarters.

All of the counterfeit packs identified through the empty pack survey were packs of Marlboro.

6.2.8 New Zealand EPS results - Illicit Whites brand flows

Figure 6.2.8: Consumption of Illicit White flows as a percentage of total manufactured cigarette consumption, 2017-2019^{(1)(a)(b)}



According to the 2019 EPS, 0.21% of all manufactured cigarettes consumed in New Zealand were Illicit Whites (non-domestic) brand flows.

Whilst the occurrence of Domestic Whites have been observed in Australia, there is no evidence of Domestic Whites consumption in New Zealand in 2019.

Notes: (a) A weight of 11/12 was assigned to the Q4 2017 EPS, and a weight of 1/12 was assigned to the Q2 2017 EPS. This was done as the Q2 2017 empty pack survey coincided with World Master Games, hosted in April 2017 in New Zealand that produced a non-domestic incidence result significantly higher than that of previous results and the survey conducted in Q4 2017.

(b) The 2019 figures are based on the blended results of Q2 2019 and Q4 2019, using the weighted number of cigarettes.

(c) The counterfeit volume is reported from manufacturers participating in EPS: BATNZ, ITNZ and PMNZ. No other counterfeit is included in the volumes reported due to lack of information.

Source: (1) MSIntelligence Research, Empty Pack Survey, Q2 2017, Q4 2017, Q2 2018, Q4 2018, Q2 2019, Q4 2019.



KPING 7. CONCLUSION

Total illicit consumption of tobacco grew by 8.4% in 2019, driven by increasing unbranded tobacco consumption

Table 7.1 Consumption model results⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾

2017-2019 results (kg '000)					
		2017	2018	2019	% change (2018-2019)
Illicit manufactured cigarettes	Contraband ^(a)	151.1	174.6	95.5	(45.3%)
	Counterfeit	0.4	2.2	1.8	(17.9%)
	Total ^(b)	151.5	176.8	97.3	(44.9%)
Unbranded tobacco ^(b)		39.8	35.4	132.7	275.2%
Total illicit tobacco ^(b)		191.3	212.2	230.1	8.4%
Illicit tobacco consumption as of total consumption	%	9.2%	10.2%	11.5%	n/a
Equivalent excise value (NZDm	1) ^(c)	181.7	224.4	287.4	28.1%

The illicit tobacco market in New Zealand

Our study indicates that the consumption of illicit tobacco in New Zealand as a proportion of total consumption represents approximately 11.5% in 2019, up from 10.2% in 2018.

Unbranded tobacco consumption formed the majority of the total illicit tobacco consumed in New Zealand, representing 57.7% of the total illicit tobacco consumption. The growth in unbranded tobacco should be considered in the context of us continuing to exclude the Q2 2018 consumer survey results which seemed anomalously high.

Contraband constitutes almost all (i.e. 98.1%) of illicit manufactured cigarette consumption. Counterfeit consumption represents a small share of illicit consumption, constituting 0.8% of total illicit tobacco consumption.

If all of the illicit tobacco had been consumed in the legitimate market it would have represented an excise amount of approximately NZD 287.4 million at the 2019 excise rate.⁽⁴⁾

The legal tobacco market in New Zealand

Legal domestic sales in New Zealand declined by 5.2% between 2018 and 2019 as the consumption of manufactured cigarettes declined by 7.6% while the consumption of loose tobacco grew by 2%.

In New Zealand, it is permitted for adults to manufacture up to 5 kilograms of tobacco per year (reduced from 15 kg per year on 1 July 2019 as per the Customs and Excise Act), provided it is exclusively for their personal use. The legal home grown market is estimated to be just over 79 thousand kilograms; approximately 3.9% of the total consumption.

The New Zealand tobacco market is one of the most expensive markets in the region; second only to Australia. Both Australia and New Zealand are much higher priced than every other market in the region. Inflows from Australia was found in relatively high proportion when compared to inflows from other countries to New Zealand.

Flows from China and South Korea represented a large share of non-domestic inflows in 2019 and a packet of New Zealand Marlboro 20s is over five times the domestic price of both countries. This wide price difference creates an economic incentive for smugglers and other individuals to import and sell tobacco outside of New Zealand legislation.

In 2019, whilst the number of interceptions for tobacco seizures grew by 76%, the volume of tobacco intercepted increased only by 2% when compared to 2018. This suggests a greater number of smaller interceptions with the average volume per interception falling from c.16kg in 2018 to c.9kg in 2019.

Notes: (a) Contraband includes volumes of Illicit Whites.

- (b) Due to lack of data points unbranded tobacco consumption and tobacco grown at home are reported only for Q4 2017 (and not Q2 2017). For 2018, results from Q2 2018 survey were excluded from the analysis.
 - (c) Calculated based on the excise tax rate for 2019, i.e., NZD 924.87 per 1,000 cigarettes and NZD1,317.93 per kilo tobacco content.
- Sources: (1) Kantar New Zealand Research, Consumer survey: Quantitative and qualitative Findings, 2017, 2018 and 2019.
 - (2) MSIntelligence Research, Empty Pack Survey, Q2 2017, Q4 2017, Q2 2018, Q4 2018, Q2 2019 and Q4 2019.
 - (3) KPMG analysis.
 - (4) Excise tax rate, January 2019.



KPMG Appendices

- A1 Consumption model
- A2 EPS Analysis
- A3 Use of smoking prevalence data
- A4 Non-domestic legal calculation
- A5 Illicit Whites flows analysis
- A6 Notes to this report
- A7 Scope of work
- A8 Kantar New Zealand questionnaire

KPMG has used a consumption based approach to estimate the unbranded tobacco and tobacco grown at home markets

A1 Consumption model

Introduction

The home grown market is comprised of tobacco grown at home for personal use. Some of this is purchased which represents an illicit market (referred to as 'unbranded tobacco'), whilst some is consumed legally (referred to as 'tobacco grown at home').

The primary methodology we have used to estimate the unbranded tobacco market and the tobacco grown at home market in New Zealand is the consumption model approach.

The consumption model uses the results of the Kantar New Zealand consumer survey to determine the core inputs to the model, combined with publicly available information on the legal tobacco market and smoking population.

The consumer survey

The consumption model was based on the responses of 2,017 smokers in New Zealand to a CATI and CAWI based consumer survey undertaken in 2019. Respondents were sampled from Kantar New Zealand online panels and previous tobacco surveys. The sample was weighted to be representative of the market in terms of product range (FMC and RYO consumers), age and gender.

The surveys were conducted 23rd May and 10th July for Q2 2019 and 8th November and 14th December for Q4 2019. Telephone interviews and online interviews took an average of 8-10 minutes and 9.9 minutes respectively to complete. Consumers were asked about their consumption and purchase of legal and illicit tobacco products; unbranded loose tobacco sold in bags, pre-filled unbranded tobacco, home grown tobacco, as well as counterfeit and contraband manufactured cigarette products.

The consumer survey is provided in Appendix A8. This lists the entire set of questions and is not a representation of how respondents view the online survey. Respondents are asked questions based on their answers in earlier filtering questions and their navigation through the survey is determined by programmed skip patterns.

The consumer survey is used to form a view on the unbranded tobacco market and the tobacco grown at home market

Kantar New Zealand collects and compiles the consumer survey responses and provides a consolidated data sheet for KPMG analysis. The data sheet lists question responses on an individual respondent basis and is accompanied by a question and answer reference mapping.

The consumer survey responses are used to obtain several core inputs for the consumption model process. These core inputs are based on consumer responses and include:

- How many smokers purchase unbranded tobacco, how often these illicit purchasers purchase unbranded tobacco, and how much they purchase on each occasion
- How many smokers grown their own tobacco, how much they grow each year and how much they give away/sell

These responses generate the core assumptions which are used in the consumption model and are illustrated on table A1b and table A1c overleaf.

Additional assumptions

In addition to the results generated by the consumer survey, further assumptions and data-points are used:

Total adult smoking population – we assumed that the total smoking population was 496,750.^(a) This assumption is based on data from the New Zealand Health Survey and population data from Euromonitor.

Note: (a) Please see appendix A3 for details of the estimation of the smoking population



Appendix 1 – Consumption model

KPMG has used results from the consumer survey to estimate the unbranded and tobacco grown at home markets

A1 Consumption model (cont.)

Calculation approach

Table A1a below provides an overview of how the size of the unbranded tobacco market and tobacco grown at home market have been calculated.

Table A1a: Consumption model approach

Туре	Approach	Со	mmentary
Unbranded tobacco	Results from the consumer survey are used to estimate the number of New Zealand tobacco smokers who use unbranded tobacco.	_	Given the illicit nature of this questioning there is a likelihood that respondents may under report actual purchase.
	This is multiplied by the average amount of unbranded tobacco purchased by survey respondents to estimate the quantity of unbranded tobacco purchased in New Zealand.		
Tobacco grown at home	Results from the consumer survey are used to estimate the number of New Zealand smokers who smoke tobacco grown at home.	—	This approach assumes that all tobacco grown at home is either consumed or given away/sold. There will likely be some
	This is multiplied by the average amount of tobacco grown by survey respondents to estimate the total quantity grown by those who smoke tobacco grown at home.	_	wastage which is not captured. However, the amount calculated is small and so we believe this will have a small impact.
	The average amount that is given away/sold by survey respondents is deducted from the total quantity grown to estimate the quantity of tobacco grown at home that is consumed in New Zealand.		



The consumption modelling calculation relies on the results of the consumer survey and publicly available data

A1 Consumption model: Unbranded

The core inputs from the consumer survey and publicly available information are used in the consumption model, illustrated in table A1. These core inputs are factored together to produce an estimate of the amount of illicit tobacco products consumed by the representative population sampled in the Kantar New Zealand consumer survey covering the steps outlined:

- a. Steps 1 and 2 are used to calculate the average annual volume of illicit consumption per consumer in step 3.
- b. The number of unbranded tobacco users is calculated by multiplying the total adult smoking population in step 4 by the percentage of unbranded tobacco users noted in the consumer survey in step 5.

In New Zealand it is assumed that unbranded tobacco is solely in the form of home grown tobacco which has been sold illegally.

The 2019 consumption model process and relevant data sources are shown in detail overleaf.

Table A1b Consumption model data sources and process

Consumption model inputs	
Quantity of unbranded tobacco purchased per occasion (g)	1 Kantar New Zealand consumer survey
Frequency of unbranded tobacco purchased per annum	2 Kantar New Zealand consumer survey
Quantity of unbranded tobacco purchased per annum (kg)	3 1 x 2 = 3
Total adult smoking population ('000)	(4) New Zealand Health Survey smoking prevalence data and Stats New Zealand adult population data ^(a)
Unbranded tobacco users as % of New Zealand tobacco users	5 Kantar New Zealand consumer survey
Number of unbranded tobacco users, New Zealand ('000)	(6)
Quantity of unbranded tobacco purchased in New Zealand (kg '000)	$(7) \qquad (3) \times (6) = (7)$

Note: (a) Please see appendix A3 for details of the estimation of the smoking population.



The results of the 2019 consumer survey indicate an illicit volume of 132,713 kg of home grown tobacco purchased

A1 Consumption model (cont.)

The core inputs from the consumer survey and publicly available information are used in the consumption model, Figure A1b: Consumption model results, 2019^{(1)(2)(a)(b)}

	Unbranded consumption			
		Q2 2019	Q4 2019	Blended
1	Average quantity of unbranded tobacco purchased per occasion (g)	115.1	99.5	
2	Average frequency of unbranded tobacco purchased per annum	49.5	106.3	
3	Average quantity of unbranded tobacco purchased per annum (g)	1 x 2 5,696	10,576	
4	Total adult smoking population ('000)	496.8	496.8	
5	Unbranded tobacco users as % of New Zealand tobacco users	3.6%	3.1%	
6	Number of unbranded tobacco users, New Zealand ('000)	(4) x (5) 17.7	15.6	
7	Quantity of unbranded tobacco purchased in New Zealand (kg '000)	3 x 6 100.8	164.6	132.7

The consumption model is used to size the unbranded tobacco market.

Based on the responses to the Kantar New Zealand consumer survey, the consumption model estimates the volume of unbranded tobacco consumed in 2019 to be just under 132,713 kg.

Following the change in the legal home grown allowance the survey suggests that 3,230 kg of tobacco was grown by people growing between 5 kg and 15 kg. We do not know how much of this was processed into smoking tobacco but the overall quantity only represents 0.16% of total consumption so the illicit amount converted to smoking tobacco is likely less than that.

Notes: (a) Numbers in the above table may not sum due to rounding.

(b) Due to lack of data points unbranded tobacco consumption and tobacco grown at home are reported only for Q4 2017 (and not Q2 2017). For 2018, results from Q2 2018 survey were excluded from the analysis.

Sources: (1) Kantar New Zealand Research, Consumer survey: Quantitative and qualitative findings, Q4 2017, Q2 2018, Q4 2018, Q2 2019 and Q4 2019. (2) KPMG analysis.



The consumption model is also used in order to calculate the legal home grown market

A1 Consumption model (cont.)

Tobacco grown at home market

The consumption model is also used in order to estimate the size of the legal tobacco grown at home market. In the consumer survey, each respondent was asked if they had smoked their own home grown tobacco within the last twelve months. The percentage that this generated was applied to the total smoking population in order to determine the number of people who smoke their own home grown tobacco.

When estimating the total size of the tobacco grown at home market, the growers were asked how much tobacco they grew. The growers were also asked whether they had given away or sold any of the tobacco they grew, and if so the quantity which was given away or sold. This was deducted from the amount grown to calculate the total amount of tobacco grown at home that was consumed legally. There will likely be some wastage that the survey does not capture.

Table A1c: New Zealand tobacco grown at home consumption volumes⁽¹⁾⁽²⁾⁽³⁾

Consumption model inputs	
Average quantity of tobacco grown per year (kg)	1 Kantar New Zealand consumer survey
Total adult smoking population ('000)	2 New Zealand Health Survey smoking prevalence data and Stats New Zealand adult population data ^(a)
Tobacco grown at home smokers as % of New Zealand tobacco users	3 Kantar New Zealand consumer survey
Number of tobacco grown at home smokers, New Zealand ('000)	$(4) (2) \times (3) = (4)$
Quantity of tobacco grown by tobacco grown at home smokers in New Zealand (kg '000)	(5) (1) x (4) = (5)
Average quantity of tobacco given away or sold (kg)	6 Kantar New Zealand consumer survey
% of home growers who have given away or sold tobacco grown at home	7 Kantar New Zealand consumer survey
Number of tobacco grown at home smokers who give away or sell tobacco grown at home, New Zealand ('000)	8 4 x (7) = 8
Quantity of tobacco given away or sold by tobacco grown at home smokers in New Zealand (kg '000)	9 6 x 8 = 9
Quantity of tobacco grown at home consumed legally (kg '000)	(10) $(5) - (9) = (10)$

Note: (a) Under sections 2, 9 and 67 and Schedule 1 item 6 of the Customs and Excise Act 2018, individuals may only manufacture 5 kilograms of tobacco for personal use from 1 July 2019.

Sources: (1) KPMG consumption model.

(2) MOH; New Zealand Health Survey.(3) Kantar New Zealand Research, Consumer statement

Kantar New Zealand Research, Consumer survey: Quantitative and qualitative findings, Q4 2017, Q2 2018, Q4 2018, Q2 2019, and Q4 2019.



Appendix 1 – Consumption model

The results of the 2019 consumption model indicate that 79,052 kg of home grown tobacco was consumed legally

A1 Consumption model (cont.)

Figure A1c: Tobacco grown at home results, 2019^{(1)(2)(a)(b)}

Legal home grown		
Q2 2019	Q4 2019	Blended
1Average quantity of tobacco grown per year (kg)4.7	4.9	
2 Total adult smoking population ('000)496.8	496.8	
Tobacco grown at home smokers as % of New Zealand tobacco users 3.4%	3.2%	
A Number of tobacco grown at home smokers, New Zealand2x317.0	16.0	
5 Quantity of tobacco grown by home growers in New Zealand 1 x 4 79.7 (kg '000)	78.6	
6 Average quantity of tobacco given away or sold (kg) 0.09	0.17	
7% of home growers who have given away or sold tobacco1.6%grown at home1.6%	3.7%	
8 Number of tobacco grown at home smokers who give away or $(4) \times (7)$ 0.3 sell tobacco grown at home, New Zealand ('000)	0.6	
Quantity of tobacco given away or sold by tobacco grown at home smokers in New Zealand (kg '000) 6×8 0.02	0.10	
10 Quantity of tobacco grown at home consumed legally (kg '000) (5) - (9) 79.7	78.5	79.1

Based on the responses to the Q2 and Q4 2019 Kantar New Zealand surveys 79,116 kg of tobacco was estimated to be grown by tobacco grown at home smokers in New Zealand. Of this, 65 kg were sold or given away, therefore 79,052 kg of tobacco were estimated to be grown at home and consumed legally. When added to all legal domestic sales, including manufactured cigarettes, this equates to 4% of the total volume of legal purchased and grown tobacco within New Zealand.

Note: (a) Numbers in the above table may not sum due to rounding.

(b) Due to lack of data points unbranded tobacco consumption and tobacco grown at home are reported only for Q4 2017 (and not Q2 2017). For 2018, results from Q2 2018 survey were excluded from the analysis.

Sources: (1) Kantar New Zealand Research, Consumer survey: Quantitative and qualitative findings, Q4 2017, Q2 2018, Q4 2018, Q2 2019 and Q4 2019. (2) KPMG analysis.



Appendix 2 – EPS Analysis

EPS Methodology

A2 EPS Analysis (cont.)

Figure A2c: EPS Methodology

1. Population centre selection

2. Pack collection

Empty Pack Survey methodology

The EPS is conducted in a consistent way in each time period to provide a clear comparison of results and follow trends. It follows a four step process:

1. Population centre selection

To achieve a sample of cigarette packs that is representative of the cigarette smoking population of New Zealand, six population centres (Tauranga was added as a population centre in 2019 to improve the representativeness of EPS) are chosen based, on parameters such as population, size and geographical location. The population centres chosen represent the five largest cities in New Zealand and cover 55% of New Zealand's population.

2. Pack collection

The neighbourhoods sampled include residential, commercial and industrial areas. The EPS collection routes specifically exclude tourist areas, sports stadia, shopping malls and stations, or any other locations where nondomestic incidence is likely to be higher as a result of a skewed population visiting these areas. The EPS is therefore representative of New Zealand's population. Each neighbourhood is assigned a number of discarded packs for collection based on the size of the overall population centre in comparison with the national population.

A minimum of 30 empty packs are collected from each neighbourhood (higher thresholds are applied in larger neighbourhoods) to fulfil statistical requirements and support reliable confidence level. These packs can be collected by any number of collectors, each of whom has no target number of packs to collect and no knowledge of the clients' names or purpose of the survey. Each neighbourhood has a specific starting point and a fixed route. The collectors accumulate as many empty packs as possible within each neighbourhood regardless of the quota requested in the sampling plan. Packs collected may be from any manufacturer regardless of whether they participate in the survey. Indeed, collectors are unaware of the final client. Collectors revisit the neighbourhood as many times as necessary in order to achieve the required quotas.

3. Pack processing

4. Pack analysis

The training of MSI collectors includes an explanation of the methodology and running of pilots prior to the collection. Each team of collectors is supervised by a team leader.

An additional 5% extra packs ('the buffer') are collected across neighbourhoods in case there are issues with the existing sample, such as spoiled packs. Any such packs are replaced by an identical 'buffer' pack collected from the same neighbourhood. If no identical pack is available, the pack is replaced randomly from the 'buffer' collected in that neighbourhood.

3. Pack processing

The empty packs are placed into bags and stored at a safe collection point. Packs are discarded if they do not meet the survey quality requirements (e.g. torn, unreadable, rotten). Each survey qualified pack is cleaned and placed in a transparent nylon bag with a zipper that carries a unique barcode label indicating the serial number attributed to the pack (corresponding to the datasheet). MSI identifies whether the packs are domestic or non-domestic. The details are then entered into the survey 'Data Sheet' provided by MSI. The packs are delivered to the participating manufacturer(s) in a way that enables easy processing and identification. Data discussed in this report refers to the information recorded on these packs.

Those brand names that are unknown are sent to the participating manufacturers to assess whether they are Illicit White flows.

4. Pack analysis

The participating manufacturers check their packs only to identify counterfeit and inform the agency, which collates and updates the data-sheets. The collected packs are weighted according to the population of each settlement with results then calculated based on the number of cigarettes per pack. Reporting is done on the basis of cigarette sticks (as opposed to packs) to provide a more accurate estimation of total consumption). We do not know whether packs from other manufacturers are counterfeit or not.

These data-sheets are finally provided to KPMG and analysed to calculate the non-domestic incidence and contraband and counterfeit volumes.



Combined 2019 EPS results found that 9.2% of manufactured cigarette flows originated from outside of New Zealand

A2 EPS Analysis (cont.)

We have been given access to nine Empty Pack Surveys (EPS) which have been carried out in New Zealand over the last six years.

The empty pack surveys have been jointly commissioned by the industry (BATNZ, ITNZ and PMNZ). Prior to 2019, surveys were also run in Q2 2014, Q2 2015, Q2 2016, Q2 2017, Q4 2017, Q2 2018 and Q4 2018 which have been made available to KPMG for use in this report. The methodology and sample walking routes were consistent with those used in 2019. These surveys collect 2109 packs across the 6 centres in New Zealand. In 2019, a new population centre, Tauranga, was added to improve the representativeness of the sample

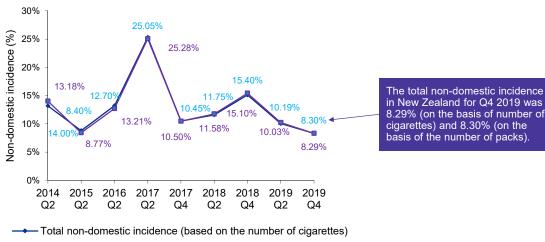
The EPS records the pack size of each pack collected. This approach enables us to report using the number of cigarettes rather than the number of packs. As there can be considerable variation in pack sizes, using a measurement based on the number of cigarettes provides a more accurate representation of consumption patterns.

Figure A2a: Total non-domestic incidence, Q2 2014 – Q4 2019^{(1)(a)}

MSI uses the EPS analysis in order to take the proportion of cigarettes that are not from New Zealand (no health warnings or non-domestic health warning, brands not sold in New Zealand, packs with identifying marks from other markets such as tax stamps) and class these cigarettes as 'non-domestic'. The proportion of non-domestic cigarettes recorded by the EPS is called the non-domestic incidence. The non-domestic incidence of the EPS is shown in the chart, below left.

The total non-domestic incidence in New Zealand for Q2 2019 was 10.03% and for Q4 2019 was 8.29% (on the basis of number of cigarettes). The non-domestic incidence (on the basis of number of packs) was 10.19% for Q2 2019 and 8.30% for Q4 2019. The combined non-domestic incidence (on the basis of weighted sticks) of 9.15% in 2019 versus 13.34% in 2018 is 4.2 percentage points lower.

Whilst a proportion of non-domestic cigarettes will be legally brought into New Zealand by both inbound (foreign nationals travelling to New Zealand) and outbound travellers (New Zealanders returning from abroad), this legal proportion is relatively small, with the majority of nondomestic cigarettes being illicit. A calculation of the legal volume of non-domestic cigarettes is shown in Appendix A4.



Notes: (a) No survey was conducted in Q4 2014, Q4 2015 and Q4 2016, trend line is for information only.

(b) In 2017, Q2 2017 and Q4 2017 cigarettes sticks were reweighted, providing a lower weight to the Q2 2017 EPS. This was done as the Q2 2017 empty pack survey coincided with World Master Games, hosted in April 2017 in New Zealand that produced a non-domestic incidence result significantly higher than that of previous results and the survey conducted in Q4 2017.

Source: (1) MSIntelligence Research, Empty Pack Survey, Q2 2014, Q2 2015, Q2 2016, Q2 2017, Q4 2017, Q2 2018, Q4 2018, Q2 2019 and Q4 2019.

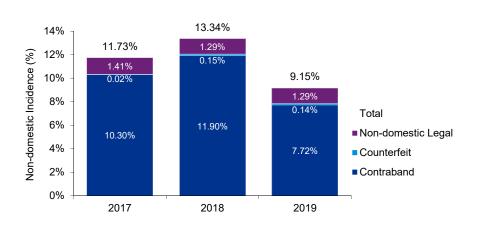


Appendix 2 – EPS Analysis

The majority of non-domestic manufactured cigarette flows continued to be illicit in 2019

A2 EPS Analysis (cont.)

Figure A2b: Break down of non-domestic incidence, 2017- 2019^{(1)(2)(a)(b) (c)}



As discussed on the previous page, not all non-domestic tobacco is illicit tobacco. Non-domestic incidence can be broken down into three separate categories of flows:

- 1. Non-domestic legal These are cigarettes legally brought into New Zealand as part of travellers' nondomestic allowance.
- Counterfeit The packs collected in the EPS are examined by the companies participating in the EPS. They are able to identify packs that are counterfeit versions of their products.
- 3. Contraband The remainder, and majority, of nondomestic manufactured cigarettes are legitimate products (i.e. non-counterfeit) that have entered New Zealand illegally. Contraband includes Illicit Whites.

The total non-domestic incidence has decreased from 13.3% in 2018 to 9.15% in 2019.

Non-domestic legal incidence has remained unchanged at 1.29% of total consumption in 2019.

Contraband continued to be a majority portion of nondomestic incidence. Therefore, the majority of nondomestic cigarettes are illicit flows.

Counterfeit incidence has decreased from 0.15% in 2018 to 0.14% in 2019, continuing to remain a small portion of the non-domestic incidence.

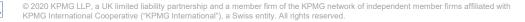
Notes: (a) Please refer to appendix A4 for detailed calculation of non-domestic legal volumes.

(b) A weight of 11/12 was assigned to the Q4 2017 EPS, and a weight of 1/12 was assigned to the Q2 2017 EPS. This was done as the Q2 2017 empty pack survey coincided with World Master Games, hosted in April 2017 in New Zealand that produced a non-domestic incidence result significantly higher than that of previous results and the survey conducted in Q4 2017.

(c) The 2017, 2018 and 2019 figures are based on the blended results of Q2 2017 and Q4 2017 for 2017, Q2 2018 and Q4 2018 for 2018 and Q2 2019 and Q4 2019 for 2019 using the weighted number of cigarettes.

Sources: (1) MSInteligence Research, Empty Pack Survey, Q2 2017, Q4 2017, Q2 2018, Q4 2018, Q2 2019 and Q4 2019.

(2) KPMG analysis.





The results of the EPS analysis indicate an illicit volume of 97,341 kg of non-domestic manufactured cigarettes

A2 EPS Analysis (cont.)

We have used the non-domestic incidence obtained from the EPS as the basis of estimates for the volumes of counterfeit and non-domestic contraband consumption in New Zealand (excluding Domestic Illicit Whites).

The 9.2% non-domestic incidence is combined with estimates for legal domestic sales volumes from the industry to create a volume estimate for illicit manufactured cigarettes. This estimate can then be broken down into volume estimates for non-domestic legal, counterfeit and contraband.

Figure: A2e: New Zealand EPS non-domestic consumption and illicit estimate^{(1)(2)(a)}

	201	7 2018	2019
Legal sales of manufactured cigarettes (kg'000s)	1, 36	1 1,324	1,222
EPS non-domestic incidence	(2) 11.7	% 13.3%	9.2%
Total consumption of manufactured cigarettes (kg'000s)	(3) = (1) /(100 % - (2)) 1,54	2 1,527	1,346
Non-domestic consumption (kg'000s)	(4) = (3) - (1) 18	1 204	123
Non-domestic legal volume estimate (kg'000s)	(5) 29	4 26.9	25.8
Illicit non-domestic consumption (kg'000s)	(6) = (4) - (5) 151	5 176.8	97.3
EPS counterfeit incidence	(7) 0.02	% 0.15%	0.14%
Counterfeit consumption (kg'000s)	$(8) = (4)^* ((7)/(2)) $ 0	4 2.2	1.8
Contraband consumption (kg'000s)	9 = 6 - 8 151	1 174.6	95.5

Figure A2e shows the calculation used to estimate the total volume of illicit manufactured cigarettes consumed in New Zealand. The percentage of non-domestic cigarettes is added to legal domestic consumption in order to calculate total consumption in step 3. Total illicit consumption is calculated by removing the non-domestic legal volume estimate in step 6.

The EPS also records the counterfeit incidence as a percentage in step 7. This counterfeit incidence is taken as a percentage of total non-domestic consumption and multiplied by the illicit consumption estimate in step 8, with the remainder contraband in step 9. The counterfeit volumes are reported from the manufacturers participating in the EPS (BATNZ, ITNZ and PMNZ). No other counterfeit is included in the volumes reported due to a lack of information.

The results of the EPS analysis show that volumes attributable to counterfeit manufactured cigarettes were small, whilst contraband flows accounted for over 98% of the total illicit consumption of manufactured cigarettes, as indicated by the EPS analysis.

Note: (a) Numbers in the above table may not sum due to rounding.

Sources: (1) MSIntelligence Research, Empty Pack Survey, Q2 2017, Q4 2017, Q2 2018, Q4 2018, Q2 2019 and Q4 2019. (2) KPMG analysis.

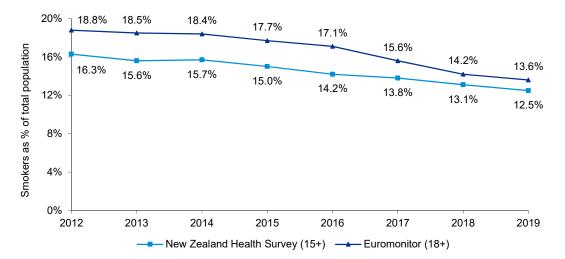


Appendix 3 – Use of smoking prevalence data

Estimates of New Zealand smoking prevalence are available from the New Zealand Health Survey and Euromonitor

A3 Use of smoking prevalence data

Figure A3a: Smokers as a percentage of population, 2012 - 2019^{(1)(2)(a)(b)}



The smoking prevalence rate measures the total percentage of regular smokers in New Zealand and can be used as an indicator of the level of tobacco consumption. Smoking prevalence data is used in order to calculate the total number of smokers in New Zealand.

Official estimates of smoking prevalence are available from MOH, based on data from the New Zealand Health Survey which has been collected annually since 2011/12. Euromonitor also provides estimates of smoking prevalence.

Each of the data sources reflects specific age groups. The New Zealand Health Survey estimates reflect prevalence for 15 year olds and above, whilst Euromonitor figures estimated prevalence among those aged over 18. This age difference likely explains part of the higher Euromonitor results. Both estimates indicate a downward trend in smoking prevalence.

Where KPMG require prevalence data for our modelling process, we have used the New Zealand Health Survey results to ensure that our estimate for the number of smokers in New Zealand is not overstated. Overstating the number of smokers would lead to an incorrectly inflated estimate of the size of the illicit trade.

Notes: (a) Data has been updated based on data from Euromonitor, accessed in January 2020. Euromonitor occasionally update their numbers and so numbers may not match data reported previously.

- (b) New Zealand Health Survey data is based on period between July and June
- Sources: (1) Euromonitor, Smoking prevalence in New Zealand, accessed January 2020.
 - (2) MOH; New Zealand Health Survey, 2011/12 2018/19.

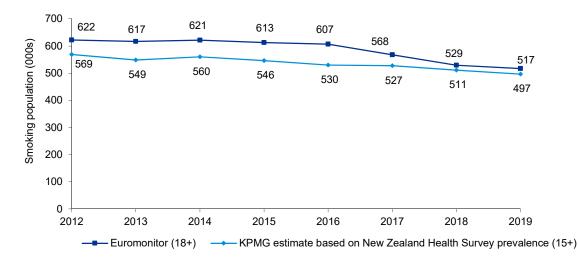


Appendix 3 – Use of smoking prevalence data

Both the estimates of smoking prevalence suggest a decline in the smoking population of New Zealand

A3 Use of smoking prevalence data

Figure A3b Total number of smokers, 2012 - 2019^{(1)(2)(3)(a)(b)}



CAGR (%) of total number of smokers	2012 - 19
KPMG estimated based on New Zealand Health Survey	(1.9)%
Euromonitor	(2.6)%

The number of adult smokers in New Zealand is used to extrapolate the consumer survey results up to an illicit estimate for the entire population. KPMG use the prevalence data provided by the New Zealand Health Survey and population data provided by Euromonitor to calculate the smoking population. This approach indicates a declining population similar to the results of Euromonitor.

Note: (a) New Zealand Health Survey data is based on period between July and June.

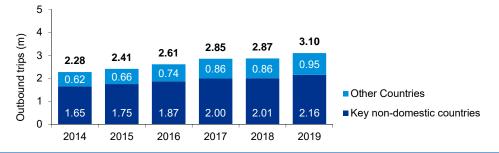
- (b) Data has been updated based on data from Euromonitor, accessed in January 2020. Euromonitor occasionally update their numbers and so numbers may not match data reported previously.
- Sources: (1) Euromonitor, smoking population in New Zealand, accessed January 2020
 - (2) MOH, New Zealand Health Survey, 2011/12 –2018/19
 - (3) Euromonitor, New Zealand population data, accessed January 2020.



Outbound trips to non-domestic source countries have increased since 2014

A4 Non-domestic legal calculation

Figure A4a: Overseas travel of New Zealand residents, 2014 – 2019^{(1)(a)(b)}



CAGR (%) of outbound trips	2014–19	2014–15	2015–16	2016–17	2017–18	2018–19
Key 2019 ND source countries	5.5%	6.2%	6.7%	6.6%	0.7%	7.3%
Total overseas trips	6.4%	6.0%	8.3%	9.3%	0.5%	8.2%

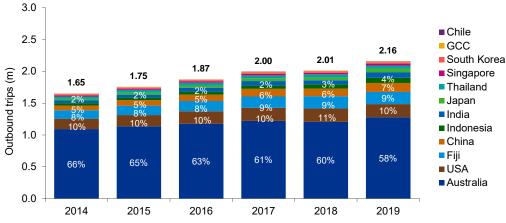
Travel trend data is used by KPMG to estimate non-domestic legal volumes, i.e. tobacco products that are brought into the country legally by consumers, such as during an overseas trip.

The EPS analysis has been used to identify the top 12 countries based on the non-domestic incidence of cigarette sticks. These countries account for approximately 88% of the total non-domestic incidence in 2019 and have been used to calculate non-domestic legal flows.

Trips made to key non-domestic source countries of manufactured cigarettes increased at a lower rate than overall visits; 7.3% versus 8.2% between 2018 and 2019.

Later in the report, this data is used to estimate non-domestic legal sales.





Visits to key non-domestic source countries reached a total of 2.2 million in 2019, accounting for approximately 70% of all trips made overseas by New Zealand residents.

However, low inbound traveller allowances will likely have tempered growth of non-domestic legal consumption. This is examined in more detail overleaf.

Notes: (a) Key non-domestic source countries have been selected from the EPS carried out in 2019, the countries shown in the graph above accounted for about 88% of the total non-domestic incidence in 2019 in New Zealand.

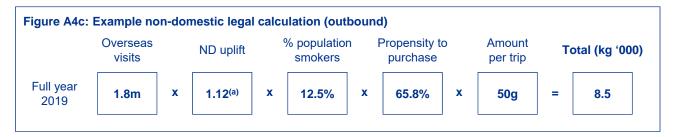
- (b) ND(L) volumes are estimated using actual travel data from January 2019 to December 2019.
- (c) Some chart labels less than 3% have been removed for clarity.

Source: (1) Statistics New Zealand, NZ-resident traveller departures by every country of main destination and purpose (monthly): Trend, 2014, 2015, 2016, 2017, 2018, 2019.



Non-domestic legal volumes due to outbound trips to key source countries is low as a proportion of total consumption

A4 Non-domestic legal calculation (cont.)



KPMG non-domestic legal calculation for c residents $(1)(2)(3)(4)(a)(b)(c)(d)$	overseas travel of New Zealand			
	Source	2017	2018	2019
Overseas trips to non-domestic source countries in the year (m)	Statistics New Zealand	0.32	1.78	1.84
Non-domestic source uplift	EPS	20%	14%	12%
% of population that are smokers	МОН	13.8%	13.1%	12.5%
% of smokers that buy tobacco overseas	Kantar New Zealand consumer survey	61.0%	60.8%	65.8%
Number of smokers purchasing overseas (m)		0.03	0.16	0.17
Amount purchased (kg)	Inbound traveller allowance	0.05	0.05	0.05
Total outbound non-domestic legal (kg)		1,606	8,072	8,471

Estimates of non-domestic legal flows show that total volumes account for a small proportion of total consumption in 2019.

The 2019 consumer survey suggested that 65.8% of smokers bought cigarettes overseas.

Notes: (a) The key non-domestic source countries used to calculate non-domestic legal flows accounted for approximately 88% of the total non-domestic incidence in 2019 in New Zealand. Therefore, a 12% uplift has been used to get the total non-domestic legal volume.

- (b) Respondents were asked 'OP1. Have you travelled outside of New Zealand in the last 12 months?'
- (c) Respondents were then asked 'OP2. Have you bought any tailor made cigarettes/roll your own tobacco in another country to bring back to New Zealand on any of your overseas trips in the last 12 months?'
 - (d) Population above the age of 18 years.

- (2) Statistics New Zealand, Resident traveller arrivals by every country of main destination and purpose (monthly): Trend, 2019.
 - (3) MOH, Government of New Zealand, Health Survey 2018-19.
 - (4) IATA, New Zealand Customs, Currency & Airport Tax regulations details, accessed on January 2020.



Sources: (1) Kantar New Zealand Research, Consumer survey: Quantitative and qualitative Findings, Q4 2017, Q2 2018, Q4 2018, Q2 2019 and Q4 2019.

Visitors from countries indicated by the EPS also serve as contributors to non-domestic packs found in New Zealand

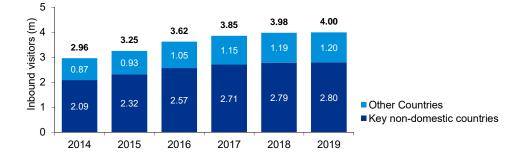
A4 Non-domestic legal calculation (cont.)

Overseas visitors arrivals from key non-domestic countries include both short term arrivals and permanent and long-term migration. As discussed on page 58, the key source countries have been included based on the inflows from each market in the 2019 EPS.

Visitors (short term arrivals and permanent and long-term migration) from the key non-domestic source countries identified by the EPS have increased since 2014.

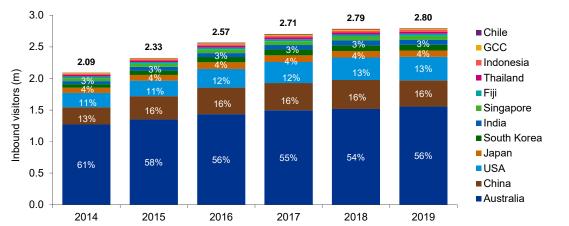
In the absence of data, KPMG has made a prudent assumption that all visitors who are calculated to be smokers bring their full 50 cigarettes or 50 gram duty free limit.

Figure A4d: Overseas visitors (short term visitors and permanent and long-term migration) arrivals to New Zealand, 2014 – 2019^{(1)(2)(a)(b)}



CAGR (%) of inbound trips	2014–19	2014–15	2015–16	2016–17	2017– 18	2018– 19
Key 2019 ND source countries	7.5%	11.1%	10.4%	5.4%	3.0%	0.4%
Total overseas visitors arrivals	7.8%	9.7%	11.4%	6.4%	3.2%	0.5%

Figure A4e: Overseas visitors arrivals from key non-domestic source countries, 2014 – 2019^{(1)(2)(a)(b)(c)}



Notes: (a) Key non-domestic source countries have been selected from the EPS carried out in 2019, the countries shown in the graph above accounted for approximately 88% of the total non-domestic incidence in 2019 in New Zealand.

(b) ND(L) volumes are estimated using actual travel data from January 2019 to December 2019.

(c) Some chart labels less than 3% have been removed for clarity.

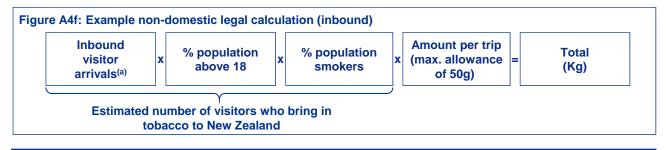
Sources: (1) Statistics New Zealand, Visitor arrivals by every country of residence and purpose (monthly): Trend, 2014, 2015, 2016, 2017, 2018, 2019.

(2) Statistics New Zealand, Permanent & long-term migration by every country of residence and citizenship (monthly): Trend, 2014, 2015, 2016, 2017, 2018, 2019.



Non-domestic legal estimates calculated on the basis of inbound visitors is a small proportion of total consumption

A4 Non-domestic legal calculation (cont.)



2019	Inbound visitor arrivals (m) ^(a)	% population above 18 ^(b)	% population smokers	Number of visitors bringing tobacco ('000) ^(c)	Amount purchased (kg)
Source	Statistics New Zealand	Euromonitor	Euromonitor		purchased (kg)
Australia	1.55	78%	13%	157.14	7857.20
China	0.42	79%	28%	91.84	4592.10
GCC	0.37	78%	13%	37.36	1868.00
Japan	0.10	85%	17%	14.60	730.00
South Korea	0.09	85%	19%	14.37	718.40
Indonesia	0.03	69%	37%	7.09	354.30
Singapore	0.07	85%	12%	6.73	336.70
Thailand	0.03	79%	23%	5.22	261.00
Fiji	0.04	66%	15%	3.39	169.35
India	0.08	67%	7%	3.37	168.65
USA	0.02	75%	22%	3.23	161.35
Chile	0.01	77%	31%	2.25	112.70
Total	2.80				17,329.75

Total amount brought into New Zealand by inbound tourists

KPMG's estimate of non-domestic legal volumes indicates that they account for a small proportion of total consumption. This proportion remains insignificant even if arrivals data is included in the non-domestic legal calculation. This analysis has been shown in detail on the next page.

Notes: (a) Inbound visitor arrivals to include arrivals of short term overseas visitors and permanent and long-term migration

(b) Population above the age of 18 years.

(c) KPMG has used a prudent approach and assumed that 100% of visitors arriving in New Zealand purchase the maximum inbound traveller allowance.

- Sources: (1) Statistics New Zealand, Visitor arrivals by every country of residence and purpose (monthly): Trend, 2019.
 - (2) Statistics New Zealand, Permanent & long-term migration by every country of residence and citizenship (monthly): Trend, 2019.
 - (3) Euromonitor, Population: National Estimates, accessed January 2020.
 - (4) Euromonitor, Smoking Prevalence Among Total Adult Population, accessed January 2020.



Total non-domestic legal consumption represents 1.3% of total consumption in New Zealand

A4 Non-domestic legal calculation (cont.)

KPMG Total non-domestic legal calculation ^{(1)(2)(3)(a)(b)}			
	2017	2018	2019
Outbound trips ('000 kg)	1.6	2.6	2.6
Inbound trips ('000 kg)	8.9	10.8	9.5
Australian (Plain Packaged) ('000 kg) ^(c)	19.0	13.5	13.7
Total ND(L) ('000 kg)	29.4	26.9	25.8
Non-domestic legal as % of total consumption	1.4%	1.3%	1.3%

The estimate of ND(L) volumes above comprises the legitimate flows from the main source countries as per the EPS and represents 1.3% of total consumption. If we were to assume that all travellers from the key source markets indicated by the EPS purchased their allowance of 50 grams, we would derive an ND(L) volume of approximately 109,222 kg or 5.4% of total consumption.

As the price of tobacco is higher in Australia than New Zealand, there is no economic incentive to smuggle tobacco illegally into New Zealand from Australia with the aim of selling illicitly. Therefore, all inflows from Australia were considered to be legal flows and so included in non-domestic legal flows.

One limitation of this methodology is that it does not include cigarettes purchased through mail order and imported legally into New Zealand. Given the limited financial gain associated with paying New Zealand excise duty on cigarettes purchased abroad, compared to those purchased in New Zealand, we believe that the volume consumed is unlikely to be significant. In addition, whilst internet retailing gained some share as a distribution channel, it still remained small in comparison to convenience stores, forecourt retailers and other traditional retail channels which dominated sales.⁽⁴⁾

Notes:

(a) Inbound visitor arrivals to include arrivals of short term overseas visitors and permanent and long-term migration.

- (b) KPMG analysis.
- (c) Flows from Australia that were compliant with the Australian plain packaging requirements as per the Q2 2017 and Q4 2017 EPS have been considered to be legal inflows. Our estimate of non-domestic legal includes the volume of these flows.
- (d) Conversion of cigarettes to kilograms is based on 0.80 grams = 1 manufactured cigarette, as per the official rates used for New Zealand excise duty purposes.
- Sources: (1) Statistics New Zealand, Visitor arrivals by every country of residence and purpose (monthly): Trend, 2019.
 - (2) Statistics New Zealand, Permanent & long-term migration by every country of residence and citizenship (monthly): Trend, 2019
 - (3) Statistics New Zealand, Resident traveller departures by every country of main destination and purpose (monthly): Trend, 2019.
 - (4) Euromonitor, Tobacco in New Zealand, July 2019.
 - (5) Kantar New Zealand, Consumer survey, 2019.
 - (6) New Zealand Custom Service.



Appendix 5 – Illicit Whites flows analysis

Illicit Whites flows methodology

A5 Illicit Whites flows analysis

Illicit Whites are defined as manufactured cigarettes that are usually manufactured legally in one country/market but which the evidence suggests have been smuggled across borders during their transit to New Zealand, where they have limited or no legal distribution and are sold without the payment of tax.

Our analysis includes an assessment of Domestic Illicit Whites and Illicit Whites (non-domestic) brand flows.

Domestic Illicit Whites

To identify which brands made up Domestic Illicit Whites brand flows, KPMG undertook the following analysis:

- All domestic cigarette brands in the EPS data were compiled for analysis. The list was corroborated through an analysis of IRI – EoS data (and pack labelling as per EPS). EPS determined volumes were compared to legally reported sales of these brands to determine an estimated share of total consumption.⁽¹⁾⁽²⁾
- Brand flows were also compared with the brands listed in the Tobacco Returns data published by MOH, which are annual tobacco returns filed by manufacturers and importers pursuant to section 35 of SFEA.⁽³⁾
- Consistent with our approach in Project Stella^(a), KPMG has conservatively assumed that, where consumption implied by the EPS volumes represented > 99% of total legal consumption, the brand is considered a Domestic Illicit White.

No brands were found to be Domestic Illicit Whites in 2019

Table A5a Domestic Illicit Whites identification process, Illicit Tobacco in New Zealand – worked example

Illicit Tobacco in New Zealand – Illicit Whites identification process, 2019 ⁽¹⁾⁽²⁾⁽³⁾					
	Domestic volume (bn sticks)	L	DS volume (bn sticks)		Illicit White volumes by brand
Brand A	0	.01	-	100%	0.01
Brand B	0	.24	0.00	100%	0.24
Brand C	0	.01	-	100%	o 🗸 🗸 0.01
Brand D	0	.01	0.01	38%	-

Brands A, B and C are classified as a Domestic Illicit White since there is no evidence of legal distribution and all flows are unspecified origin. Brand D is not classified as a Domestic Illicit White where the domestic volumes are 38% of the consumption.

Notes: (a) Project Stella was formerly called Project SUN

- Sources: (1) MSIntelligence Research, Empty Pack Survey, Q2 2018, Q4 2018, Q2 2019, Q4 2019.
 - (2) IRI, Exchange of Sales, 2012 2019.
 - (3) Tobacco Returns, MOH, 2019.



Appendix 5 – Illicit Whites flows analysis

Illicit Whites flows methodology

A5 Illicit Whites flows analysis (cont.)

Illicit Whites (non-domestic)

To identify which non-domestic brands made up Illicit Whites brand flows, KPMG undertook the following analysis:

- All non-domestic labelled cigarette brands were compiled to form an initial list of brands.⁽¹⁾
- These brands were then compared with the IRI EoS⁽²⁾ (which records brands being sold through most legitimate channels). Brands included in the IRI EoS data were then eliminated from the list.
- Remaining brands were then compared with the brands listed in the Tobacco returns data.⁽³⁾ Brands included in this
 publication were then also eliminated.
- Further analysis was undertaken by looking at the country of origin and corroborating this with third party sources.^(a)
- Remaining brand flows were identified as Illicit Whites.

Given our identification of counterfeit product is limited to the three industry participants, we cannot assess whether or not these flows are counterfeit product.

Table A5b Illicit Whites (non-domestic) identification process for Illicit Tobacco in New Zealand – worked example

Illicit Tobacco in New Zealand – Illicit Whites identification process ⁽¹⁾⁽²⁾⁽³⁾				
	2019 non-domestic volume (bn sticks)	IRI – Exchange of sales data?	Tobacco returns?	Illicit White brand flow
Brand A	0.02	Yes	Yes	×
Brand B	0.15	No	Yes	×
Brand C	0.06	No	No	
Brand D	0.01	Yes	No	X
Brand E	0.01	Yes	Yes	X

Only the brand flows which are not present in both the IRI – EoS data and the Tobacco returns are categorised as Illicit White flows.

Note: (a) Third party sources include Euromonitor tobacco reports which were used for further verification.

Sources: (1) MSIntelligence Research, Empty Pack Survey, Q2 2018, Q4 2018, Q2 2019, Q4 2019.

(2) iRi, Exchange of Sales, 2012 - 2019.

(3) Tobacco Returns, MOH, 2019.



Appendix 6 – Notes to this report

Notes to this report

A6 Notes to this report

The measurement of illicit consumption is inherently complex as those involved seek to conceal their activities.

We believe that the approach adopted for this report, both in terms of the consumption model methodology and the key data sources, generates an estimate of illicit consumption that is as robust as possible within current research techniques.

Whilst we believe this approach is currently the most appropriate method, we also recognize that we have been required to make a number of data assumptions and scope exclusions.

Further detail on key approaches and methodology limitations is provided in the table below.

Illicit tobacco in New Zealand		
Source	Overview	
EPS	 The EPS approach provides an objective and statistically representative estimate of the size of the illicit manufactured cigarette market. The results are not subject to respondent behaviour and are less prone to sampling errors than many other alternative methodologies. 	
	 Whilst the EPS is designed to be representative of the overall population, it is not possible to ensure the sample is fully representative because: 	
	- The sample is more heavily weighted towards populous, urban areas, so in some markets the EPS may not be fully representative of consumption habits in rural areas. The impact in New Zealand is likely to be minimal as only 13% of the population live in rural areas. ⁽¹⁾ Nevertheless, the EPS covers 55% of the population and so a reasonably large proportion of the population is not covered by the study. The proportion of coverage by the EPS is under consideration and may be extended next year.	
	 Collection routes also specifically exclude sports stadia, shopping malls and stations, or any other locations where non-domestic incidence is likely to be higher as a result of a skewed population visiting these areas. 	
	— Although EPS dates are selected to minimise seasonal factors, there may be specific events that impact the results such as major national events which result in large numbers of overseas visitors. We use a blended result of Q2 and Q4 EPS data to minimise this impact. In 2017, Q2 2017 and Q4 2017 were reweighted, providing a lower weight to the Q2 2017 EPS. This was done as the Q2 2017 empty pack survey coincided with World Master Games, hosted in April 2017 in New Zealand that produced a non-domestic incidence result significantly higher than that of previous results and the survey conducted in Q4 2017.	
	 Brand and market variant share can only be extrapolated with a degree of statistical accuracy for brands where a sufficiently large number of packs have been collected. 	

Source: (1) Euromonitor, Population: National Estimates, accessed March 2020



Notes to this report

Notes to this report (cont.) **A6**

Illicit tobacco in New Zealand			
Source	Overview		
Non-major manufacturer (non- participating)	 EPS results do not identify counterfeit packs that have been made by manufacturers other than BATNZ, ITNZ and PMNZ as only the manufacturer/trademark owner can confirm whether their brand pack is genuine. 		
participating) counterfeit	 As a result, for brands not trademark-owned by BATNZ, ITNZ or PMNZ, it is not possible to identify counterfeit (non-domestic variants) and contraband product, although the overall volume of illicit would remain unaffected. 		
	 The volume of legal domestic consumption may be overstated where domestic counterfeit variants exist, leading to corresponding understatements of illicit volumes for some brands (although the impact is likely to be minimal and would require any counterfeit pack barcodes to operate correctly and to be scanned by retailers). 		
	 Illicit White volumes may include counterfeit. However, the presence of counterfeit is unlikely to have a major impact as counterfeit volumes in 2019 only represented a small proportion (0.1%)⁽¹⁾ of the total sample of the three participating manufacturers brand flows and counterfeit is typically concentrated on the most popular brands only. 		
Consumer surveys	 The sample for the tobacco questionnaire is weighted by location, age and gender in order to be representative of the national population. 		
	 Although the consumer survey is designed to be nationally representative of the population, there are certain limitations associated with consumer surveys, such as: 		
	 Information obtained from a consumer survey is based on a sample rather than the entire population and therefore data is subject to sampling variability. 		
	 In addition, there are limitations to using a consumer survey to estimate tobacco consumption and more specifically illicit tobacco consumption: 		
	 Consumer surveys have historically under-reported tobacco consumption, especially in countries where it has become increasingly socially less acceptable. As such, the Kantar New Zealand consumer survey used in this report asks respondents about purchase behaviour rather than actual consumption habits. 		
	- Illicit tobacco consumption is likely to be under-reported to an even greater degree. ⁽²⁾		

 Sources:
 (1)
 MSIntelligence Research, Empty Pack Surveys, Q2 2019 and Q4 2019.

 (2)
 Temporal changes of under-reporting of cigarette consumption in population-based studies, Gallus et al, 2011.



Notes to this report

A6 Notes to this report (cont.)

Illicit tobacco in New Zealand		
Source	Overview	
ND(L)	 We have used inbound and outbound travel data and inbound settler data from the Statistics New Zealand to calculate the number of trips made. 	
	 We have calculated the number of cigarettes purchased by assuming smokers purchase the legal allowance. This approach may overweight ND(L) volumes as a share of total non- domestic flows. 	
	 We have used key non-domestic source countries from the EPS to calculate non-domestic legal flows. These countries accounted for approximately 88% of the total non-domestic incidence in 2019 in New Zealand. Therefore, a 12% uplift has been used to get the total non- domestic legal volume. 	
	 We have not been able to accurately estimate the number of cigarettes purchased through mail order and legally imported into New Zealand. However, as highlighted on page 62, we feel that the volume consumed is unlikely to be material. 	
Outflows from New Zealand	 Outflows from New Zealand are not considered to be material due to the high prices relative to other parts of the world. 	
External data sources	 We have used a series of external data sources to estimate illicit tobacco consumption in New Zealand in 2019. There are a number of limitations associated with these sources. 	
	 There are also differences between our key data sources and other points of corroboration. For example, the Kantar New Zealand consumer survey focuses on those over 18 years old, whilst the New Zealand health survey focuses on those over 15 years old. 	

Appendix 7 – Scope of work

The description of the services set out below comprises the agreed scope of our work

A7 Scope of work

Full year report on the volume and nature of illicit tobacco in New Zealand 2019.

The description of the services set out below comprises the agreed restrictive scope of our work, and our ability to perform the services is subject in all cases to relevant information being available from the sources of information and documentation to be made available to us.

Scope

We will analyse and report on:

- The total level of legal domestic sales (LDS) of tobacco products, and consumption in the market.
- If possible, the estimated total consumption of legal home grown tobacco in New Zealand.
- The estimated total consumption of tobacco (legal and illicit) across both manufactured products, loose tobacco and home grown tobacco.
- The estimated proportion of the New Zealand tobacco market accounted for by illicit trade consumption across both manufactured products and illegal home grown tobacco; including contraband, counterfeit and loose/unbranded tobacco products).
- Highlight the size of illicit white and domestic white consumption at an aggregate level (i.e. brands and trademark owners shall not be identified).
- Data on how taxation has evolved over time and report on tobacco regulation in the New Zealand market.

Approach

In order to size the illicit tobacco market, we will use two principal methods and other sources as a means of validation:

- Consumer research methodology utilising responses of a consumer survey undertaken by Kantar provided to us by you. The questionnaire developed by KPMG and Kantar will make this process more efficient:
 - Analyse consumer responses to seek to establish the proportion of illicit home grown tobacco consumed.
 - Extrapolate the proportion of illicit tobacco consumed on a national level.
 - Express the findings as a proportion of total tobacco consumption.
 - Analyse consumer responses to establish the overall volume of home grown consumption.
- Empty pack survey methodology utilising Empty Pack Survey (EPS) data; namely
 - Analyse the data output from the EPS undertaken in 2019 to establish the proportion of market accounted for by non-domestic manufactured cigarettes.
 - Extrapolate the non-domestic and counterfeit incidence estimates identified in the EPS against the level of legal domestic sales in New Zealand.
 - Express findings on the estimates of both non-domestic consumption of manufactured cigarettes and consumption of counterfeit product as a proportion of consumption.
- Use additional corroborating data sources in order to demonstrate the robustness of the findings, including, where
 available, smoking prevalence data, rolling paper sales data, other consumer surveys relating to tobacco
 consumption and seizures data.
- Use of travel trends and smoking prevalence data in order to estimate non-domestic legal consumption of manufactured cigarettes and loose tobacco.

The overall results from the two methodologies will then be compared and combined in order to build up our overall estimate of the size and composition of the illicit market as a proportion of total tobacco consumption.



Appendix 8 – Kantar New Zealand questionnaire

Questions asked by the consumer survey

A8 Kantar New Zealand questionnaire

Do you, or does any member of your close family work in any of the following companies?

Can you please tell me how old you are?

Are you male or female?

What is your current age?

Which of the following products do you currently consume? (Options provided)

What type of tobacco products do you smoke or use, even if only occasionally? (Options provided)

How often do you normally smoke tailor

made/manufactured cigarettes? (Options provided)

How many tailor made/manufactured cigarettes do you normally smoke each day (on average)?

What is your regular brand of tailor made/manufactured cigarettes? That is, the one you smoke more than any other brand?

What other brands of tailor made/ manufactured cigarettes do you currently smoke?

How often do you normally smoke roll your own tobacco?

How many roll your own cigarettes do you normally smoke each day (on average)?

What is your regular brand of roll your own tobacco? That is, the one you smoke more than any other brand?

What other brands of roll your own tobacco do you currently smoke?

Before today, were you aware of tobacco or cigarettes that can be bought for less than the normal price?

How did you become aware of the availability of cheap tobacco or cheap cigarettes?

Since you turned 18 have you ever bought cheap tobacco or cheap cigarettes for your own use?

Have you bought cheap tobacco or cheap cigarettes for your own use in the last 12 months?

Since you turned 18, how long have you been buying cheap tobacco or cheap cigarettes?

Which of the following types of cheap tobacco or cheap cigarettes are you aware of? (options provided)

How did you become aware of the availability of homegrown tobacco?

Since you turned 18 have you ever bought home grown tobacco for your own use?

Have you bought home grown tobacco in the last 12 months?

When did you last buy home grown tobacco?

When you last bought home grown tobacco, where did you get it from?

When you last bought home grown tobacco, can you estimate in grams or cigarettes how much you bought? When you last bought home grown tobacco, how much did it cost in total?

In the last 12 months, has there been an occasion where you have wanted to get home grown tobacco, but were unable to buy any?

When you smoke home grown tobacco how much do you smoke per day?

How did you usually smoke home grown tobacco?

Do you know where the home grown tobacco you buy usually comes from?

Why do you smoke home grown tobacco?

How did you become aware of the availability of these cheaper RYO tobacco products?

Since you turned 18 have you ever bought any of these cheaper RYO tobacco products for your own use?

Have you bought these cheaper RYO tobacco products in the last 12 months?

In the past 12 months, how often did you buy these cheaper RYO tobacco products?

When did you last buy these cheaper RYO tobacco products?

When you last bought these cheaper RYO tobacco products, where did you get it from?

(If online or over the internet) How was this cheaper RYO tobacco delivered to you?

When you last bought these cheaper RYO tobacco products, can you estimate in grams or cigarettes how much you bought?

When you last bought these cheaper RYO tobacco products, how much did it cost in total?

When you smoke them, how much of these cheaper RYO tobacco products do you smoke per day?

Do you know where this cheaper RYO tobacco products you buy usually comes from?

Why did/do you smoke these cheaper RYO tobacco products?

Since you turned 18, do you think have you ever bought contraband cigarettes?

Do you think or suspect that you have bought contraband cigarettes, in the last 12 months?

Since you turned 18, do you think you have ever bought counterfeit cigarettes?

Do you think or suspect that you have bought counterfeit cigarettes, in the last 12 months?

Source: (1) Kantar New Zealand consumer surveys.



Appendix 8 – Kantar New Zealand questionnaire

Questions asked by the consumer survey (cont.)

A8 Kantar New Zealand questionnaire (cont.)

If you think you have bought contraband or counterfeit cigarettes which brand(s) was it?

How did you become aware of the availability of contraband/ counterfeit cigarettes?

In the past 12 months, how often do you think you may have bought contraband/ counterfeit cigarettes?

When do you think you last bought contraband/ counterfeit cigarettes?

When you last bought contraband/ counterfeit cigarettes, where did you get them from?

When you last bought contraband/ counterfeit cigarettes, how was it sold?

When you last bought contraband/ counterfeit cigarettes, how many cigarettes did you buy?

When you last bought contraband/ counterfeit cigarettes, how much did it cost in total?

What would you do if contraband cigarettes are no longer available?

In the last 12 months, has there been an occasion where you have wanted to get contraband/ counterfeit cigarettes, but were unable to buy any?

When you smoke them, how many contraband/ counterfeit cigarettes do you smoke per day?

Do you know where the contraband/ counterfeit cigarettes you buy usually come from?

Why did/do you smoke contraband/ counterfeit cigarettes?

How did you become aware of the availability of cheap cigarettes?

Since you turned 18 do you think you have ever bought cheap cigarettes?

Have you bought cheap cigarettes in the last 12 months?

If you think you have bought cheap cigarettes which brand(s) was it?

In the past 12 months, how often did you buy cheap cigarettes?

When did you last buy cheap cigarettes?

When you last bought cheap cigarettes, where did you get them from?

When you last bought cheap cigarettes, how was it sold?

When you last bought cheap cigarettes, how many did you buy?

When you last bought cheap cigarettes, how much did it cost in total?

In the last 12 months, has there been an occasion where you have wanted to get cheap cigarettes, but were unable to buy any?

When you smoke them, how many cheap cigarettes do you smoke per day?

Why did/do you smoke cheap cigarettes?

Why did you stop buying cheap cigarettes?

Since you turned 18 have you ever grown your own tobacco from a plant or a seed?

Have you grown tobacco from a plant or a seed in the last 12 months?

Can you estimate how much tobacco you grew in the last 12 months?

Since you turned 18, have you ever smoked home grown tobacco that you have grown yourself?

Have you smoked your own home grown tobacco in the last 12 months?

How do you usually smoke your own home grown tobacco?

In the past 12 months, how often did you buy home-grown tobacco?

Are you aware of the personal home grown tobacco allowance in New Zealand?

If you have any of your own home grown tobacco left over (i.e. that you haven't smoked), what do you do with it?

When you last gave it away, what form was it in?

When you last sold it, what form was it in?

In the last 12 months, how much have you given away/sold in total?

Have you travelled outside of New Zealand in the last 12 months?

Have you bought any tailor made cigarettes/roll your own tobacco in another country to bring back to New Zealand on any of your overseas trips in the last 12 months?

What type of tobacco did you buy?

How many trips in the last 12 months did you make where you bought tailor made cigarettes/Roll Your Own tobacco back to New Zealand?

For each type of product, indicate how much you brought back into New Zealand from overseas on average per trip

In which countries did you buy tailor made cigarettes/Roll Your Own tobacco?

Are you aware of the recent reduction to New Zealand's duty free tobacco allowance? This was reduced in 2016 from 200 cigarettes/ grams to 50 cigarettes/grams.

In the last 12 months, have you received or purchased any manufactured cigarettes or roll your own tobacco that was posted from abroad?

How did you order the cigarettes or tobacco from overseas?

Source: (1) Kantar New Zealand consumer surveys.



Appendix 8 – Kantar New Zealand questionnaire

Questions asked by the consumer survey (cont.)

A8 Kantar New Zealand questionnaire (cont.)

Are you aware of the penalties associated with buying, selling or importing illicit tobacco and cigarettes?

Are you currently employed? (other options provided)

Which of the following occupational categories best describes you? (options provided)

What is your approximate annual personal income (before tax)?

Which of the following best describes the region in which you live? (options provided)

Source: (1) Kantar New Zealand consumer surveys.





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