Illicit Cigarettes Study (ICS) In Malaysia, Mar 2024 Report

Report Commissioned by CMTM member companies



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Appendix: Nielsen's ICS Research Objective & Methodology





Illegal Cigarettes Criteria For Verification

Packs with at least one (1) of the following features:

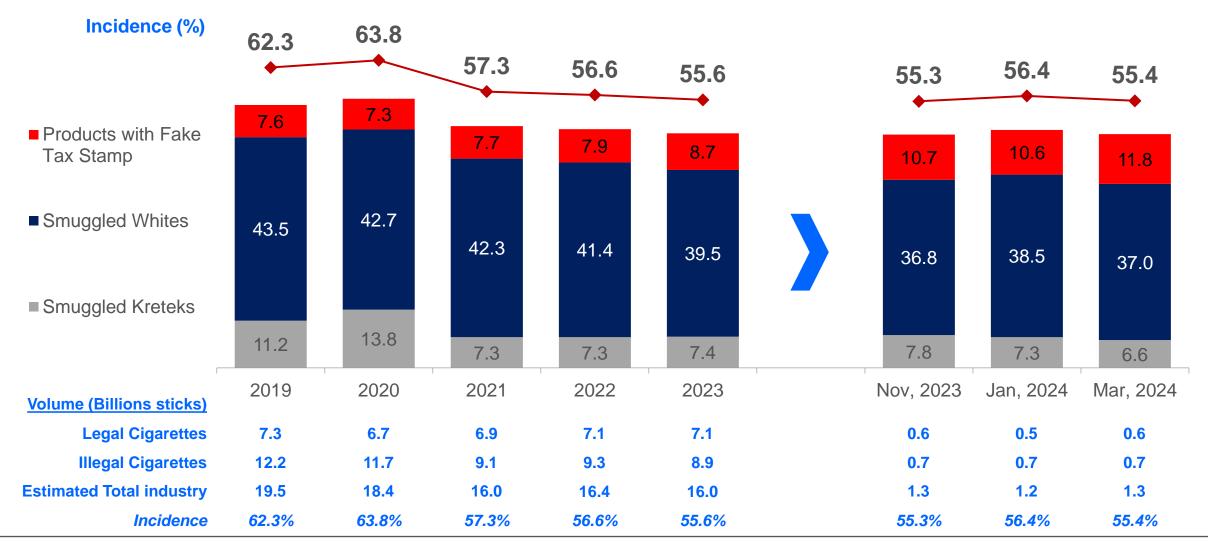
- Absence of Registered Importers
- Unregistered Importers*
- Absence of Registered Manufacturers
- Unregistered Manufacturers*
- 5. Packs with counterfeit (fake) Malaysian tax stamp**
- 6. Packs without Malaysian tax stamp
- 7. Packs with non-Malaysian tax stamp
- 8. Unregistered Brand*
- 9. Non Compliance to Ministry of Health's Control of Tobacco Product Regulations (CTPR) 2004
 - I. Absence or Non Compliance of Pictorial Health Warning Requirements
 - II. Pack Size other than 20 sticks
 - III. Absence or Non Compliance of mandated labeling requirements





Illegal Cigarettes Incidence At National Level:

Overall decrease by 1.0 ppt. vs. Jan, 2024





Illegal Cigarettes Incidence In Pen. Malaysia:

Overall decrease by 1.5 ppt. vs. Jan, 2024







Illegal Cigarettes Incidence In East Malaysia:

Remain unchanged vs. Jan, 2024

Incidence (%) 85.3 82.8 82.1 80.3 79.3 79.6 79.6 78.8 Products with Fake Tax Stamp ■ Smuggled Whites 77.8 74.0 75.7 72.2 72.0 73.0 74.1 75.4 ■ Smuggled Kreteks 8.8 7.5 8.1 7.3 6.4 5.8 5.5 2019 2020 2021 2022 2023 Nov. 2023 Jan, 2024 Mar, 2024 **Volume (Billions sticks) Legal Cigarettes** 0.3 0.2 0.5 0.5 0.5 0.04 0.04 0.04 **Illegal Cigarettes** 1.3 2.1 2.1 1.7 1.9 0.15 0.14 0.16 **Estimated Total industry** 2.0 1.5 2.6 2.6 2.4 0.19 0.18 0.20 Incidence 82.8% **85.3%** 82.1% 80.3% 79.3% 78.8% 79.6% 79.6%



Top 10 Illegal Cigarettes Brands*

They account for approximately 75% of illegal cigarettes volume

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	13.0
2.	Era	8.3
3.	Canyon	4.0
4.	U2	3.3
5.	Gudang Garam	3.0
6.	Bosston*	2.8
7.	L.A.	2.2
8.	Misto*	2.2
9.	Parkway	1.6
10.	Concept*	1.4
	Top 10 Total	41.8

Jan, 2024
SOM
(%)
13.3
7.9
4.5
3.9
4.1
3.3
2.4
2.0
1.8
0.7
43.9

2023	
SOM	
(%)	
13.7	
7.4	
5.6	
4.4	
4.2	
1.7	
2.3	
1.4	
1.5	
0.8	
43.0	



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#	4
Į.	3
#	7
L	A

# 2	
ERA	
# 5	
Serge.	





Other Illegal	13.6
Total Illegal %	55.4

1	2.5
5	6.4

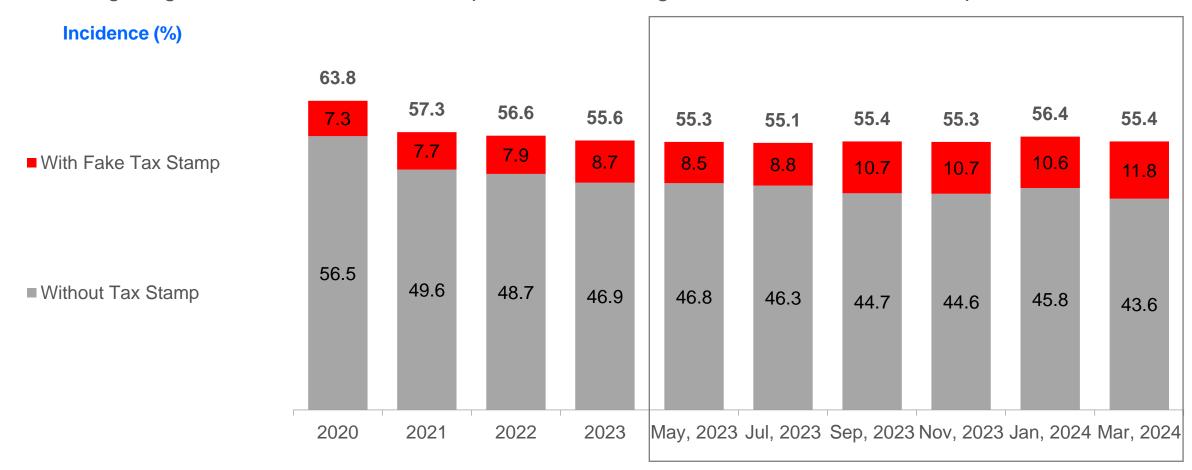
12.6	
55.6	



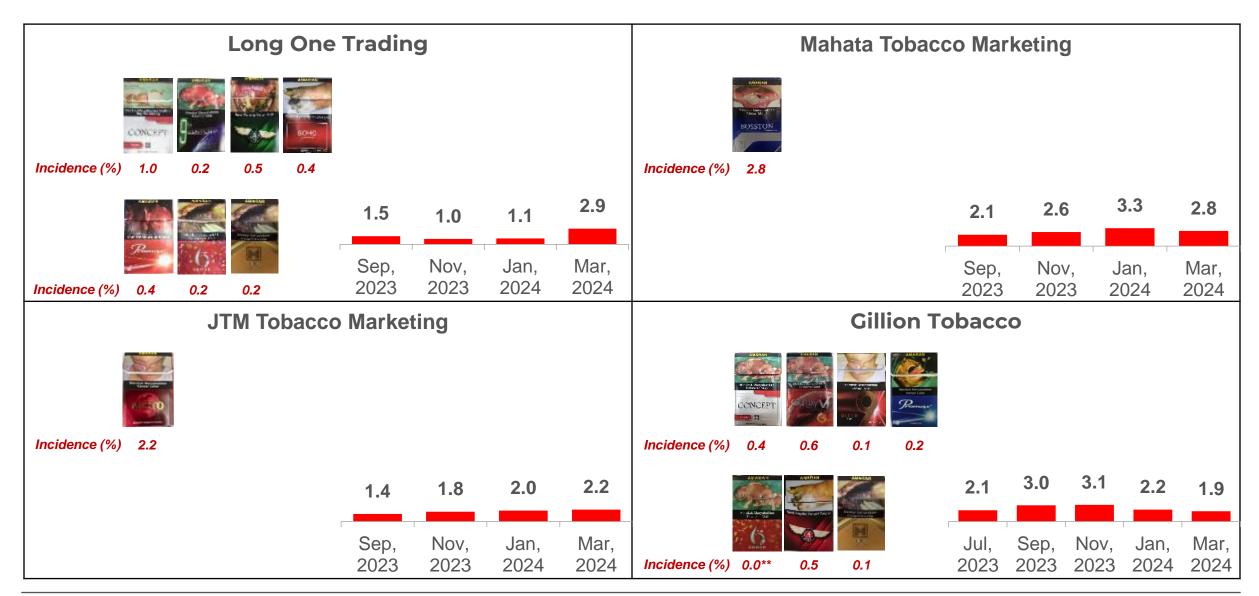


Tax Stamp Breakdown Of Illegal Cigarettes:

79% of illegal cigarettes are without tax stamps while remaining 21% are with fake tax stamps

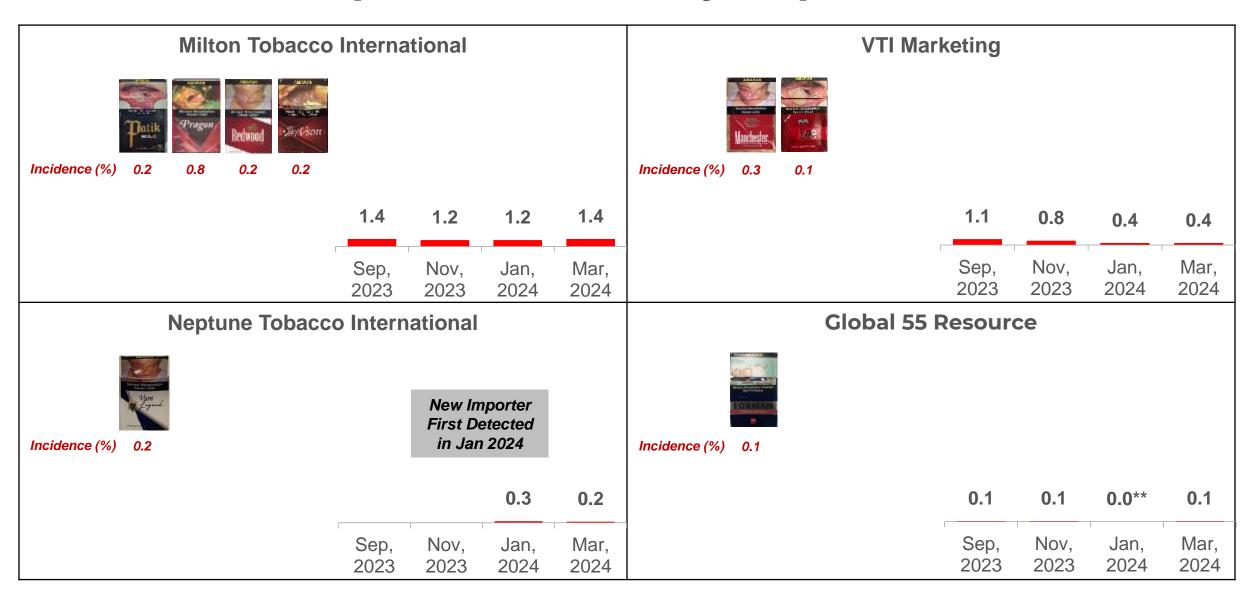














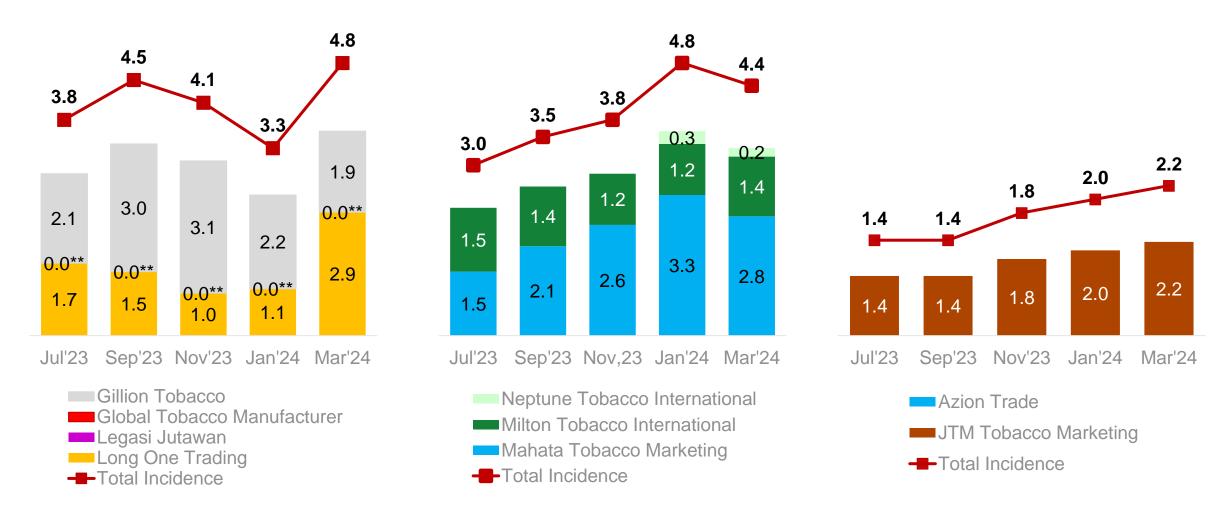


Pacific Tobaco	co Com	pany			Global Tob	acco Manuf	acture	r	
Incidence (%) 0.0**					Incidence (%) 0.0**				
	0.1	0.0**	0.0**	0.0**		0.0**	0.0**	0.0**	0.0**
	Sep, 2023	Nov, 2023	Jan, 2024	Mar, 2024		Sep, 2023	Nov, 2023	Jan, 2024	Mar, 2024
Legasi Ju	utawan	1							
Incidence (%) 0.0**									





Incidence for packs imported by JTM Tobacco Marketing, Milton Tobacco International and Long One Trading have increased in Mar'24







Illegal Cigarettes Incidence By State:

4 States recording an increase vs. Jan 2024

	Α			
	Mar, 2024			
	Total Illegal	Fake Tax Stamp	Smuggled Whites	Smuggled Kretek
Sarawak	80.7	0.1	73.3	7.3
Pahang	79.4	16.2	52.8	10.4
WP Labuan	79.3	0.0	75.3	4.0
Sabah	78.7	0.0	77.5	1.2
Terengganu	69.4	18.1	47.3	4.0
Melaka	59.4	32.2	22.8	4.4
Johor	55.0	23.6	28.8	2.6
Kelantan	51.1	0.7	50.0	0.4
Perlis	48.1	3.9	42.8	1.4
Penang	45.9	7.2	35.6	3.1
Selangor	43.1	6.2	22.8	14.1
WP KL	41.0	1.7	25.8	13.5
N.Sembilan	40.8	24.9	13.4	2.5
WP Putrajaya	40.7	1.8	24.5	14.4
Kedah	36.5	12.4	23.5	0.6
Perak	32.2	13.1	18.1	1.0
National Incidence	55.4	11.8	37.0	6.6

	E	3	
	Jan,	2024	
Total Illegal	Fake Tax Stamp	Smuggled Whites	Smuggled Kretek
80.3	0.0	71.7	8.6
80.7	13.6	52.2	14.9
78.9	0.0	76.2	2.7
70.5	13.2	54.0	3.3
56.2	32.0	21.4	2.8
57.0	21.8	30.0	5.2
60.3	0.3	59.4	0.6
41.8	0.8	36.8	4.2
47.8	5.9	39.0	2.9
44.7	6.3	26.3	12.1
42.1	1.0	28.0	13.1
42.0	24.7	15.9	1.4
32.4	8.8	23.4	0.2
33.2	12.5	19.7	1.0
56.4	10.6	38.5	7.3

A minus B			
Variar	Variance (Mar'2024 vs. Jan'2024)		
Total Illegal	Fake Tax Stamp	Smuggled Whites	Smuggled Kretek
+0.4	+0.1	+1.6	-1.3
-1.3	+2.6	+0.6	-4.5
-0.2	0.0	+1.3	-1.5
-1.1	+4.9	-6.7	+0.7
+3.2	+0.2	+1.4	+1.6
-2.0	+1.8	-1.2	-2.6
-9.2	+0.4	-9.4	-0.2
+6.3	+3.1	+6.0	-2.8
-1.9	+1.3	-3.4	+0.2
-1.6	-0.1	-3.5	+2.0
-1.1	+0.7	-2.2	+0.4
-1.2	+0.2	-2.5	+1.1
+4.1	+3.6	+0.1	+0.4
-1.0	+0.6	-1.6	0.0
-1.0	+1.2	-1.5	-0.7

Volume Contribution
%
11%
13%
0%**
11%
4%
4%
20%
2%
0%**
5%
14%
7%
3%
0%**
2%
3%
100%





Illegal Cigarettes Incidence By State:

5 States recording an increase vs. 2023

	Α			
	Mar, 2024			
	Total Illegal	Fake Tax Stamp	Smuggled Whites	Smuggled Kretek
Sarawak	80.7	0.1	73.3	7.3
Pahang	79.4	16.2	52.8	10.4
WP Labuan	79.3	0.0	75.3	4.0
Sabah	78.7	0.0	77.5	1.2
Terengganu	69.4	18.1	47.3	4.0
Melaka	59.4	32.2	22.8	4.4
Johor	55.0	23.6	28.8	2.6
Kelantan	51.1	0.7	50.0	0.4
Perlis	48.1	3.9	42.8	1.4
Penang	45.9	7.2	35.6	3.1
Selangor	43.1	6.2	22.8	14.1
WP KL	41.0	1.7	25.8	13.5
N.Sembilan	40.8	24.9	13.4	2.5
WP Putrajaya	40.7	1.8	24.5	14.4
Kedah	36.5	12.4	23.5	0.6
Perak	32.2	13.1	18.1	1.0
National Incidence	55.4	11.8	37.0	6.6

В			
	20	23	
Total Illegal	Fake Tax Stamp	Smuggled Whites	Smuggled Kretek
80.2	0.0	68.1	12.1
77.7	12.3	54.2	11.2
78.4	0.0	76.2	2.2
68.4	11.5	51.8	5.1
49.2	27.5	19.1	2.6
56.0	17.0	32.6	6.4
56.9	1.0	53.5	2.4
50.6	1.6	41.3	7.7
46.8	8.0	35.7	3.1
45.3	4.3	29.0	12.0
41.4	1.1	30.2	10.1
41.3	21.1	16.7	3.5
46.4	6.0	36.7	3.7
34.4	13.0	20.4	1.0
55.6	8.7	39.5	7.4

A minus B			
Vari	Variance (Mar'2024 vs. 2023)		
Total Illegal	Fake Tax Stamp	Smuggled Whites	Smuggled Kretek
+0.5	+0.1	+5.2	-4.8
+1.7	+3.9	-1.4	-0.8
+0.3	0.0	+1.3	-1.0
+1.0	+6.6	-4.5	-1.1
+10.2	+4.7	+3.7	+1.8
-1.0	+6.6	-3.8	-3.8
-5.8	-0.3	-3.5	-2.0
-2.5	+2.3	+1.5	-6.3
-0.9	-0.8	-0.1	0.0
-2.2	+1.9	-6.2	+2.1
-0.4	+0.6	-4.4	+3.4
-0.5	+3.8	-3.3	-1.0
-9.9	+6.4	-13.2	-3.1
-2.2	+0.1	-2.3	0.0
-0.2	+3.1	-2.5	-0.8

Volume Contribution
%
11%
13%
0%**
11%
4%
4%
20%
2%
0%**
5%
14%
7%
3%
0%**
2%
3%
100%



Top 10 Illegal Cigarettes Brands* For WP Putrajaya

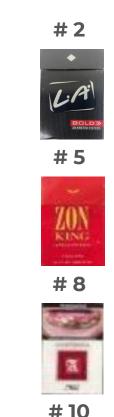
Volume contribution to National = 7%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	8.9
2.	L.A.	7.5
3.	U2	5.5
4.	Gudang Garam	5.5
5.	Zon King	4.4
6.	Canyon	3.1
7.	Luffman	2.6
8.	Sampoerna	1.5
9.	Bosston*	0.8
10.	Vson*	0.5
	Top 10 Total	40.3

Jan, 2024	2023
SOM	SOM
(%)	(%)

SOM	100
(%)	
	÷
	:





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Canyon
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Top 5 Illegal Cigarettes Brands* For WP Labuan

Volume contribution to National = 11%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	Era	62.1
2.	Premium	9.3
3.	D&J	3.8
4.	Grow	3.6
5.	L.A.	0.5
	Top 5 Total	79.3

Jan, 2024	2023
SOM	SOM
(%)	(%)







Other Illegal	-
Total Illegal %	79.3







Top 10 Illegal Cigarettes Brands* For Perlis

Volume contribution to National = 0%**

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	36.3
2.	Vess	6.2
3.	Vson*	3.4
4.	Gudang Garam	1.0
5.	Touro	0.4
6.	D&J	0.2
7.	Misto*	0.2
8.	A380*	0.2
9.	Redwood*	0.1
10.	Concept*	0.1
	Top 10 Total	48.1

Jan, 2024
SOM
(%)
32.5
4.1
0.2
4.2
-
-
0.3
0.1
-
-
41.4

2023	
SOM	
(%)	
33.2	
5.9	
0.0**	
7.0	
0.4	
0.3	
1.1	
0.1	
0.0**	
0.0**	
48.0	



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0.4
41.8

2.6
50.6





Top 10 Illegal Cigarettes Brands* For Kedah

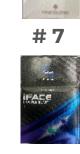
Volume contribution to National = 1%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	9.4
2.	Tiara	7.1
3.	Vson*	6.3
4.	Vess	5.9
5.	Misto*	3.8
6.	A380*	2.4
7.	iFace	0.7
8.	Gudang Garam	0.5
9.	Touro	0.1
10.	Era	0.1
	Top 10 Total	36.3

Jan, 2024
SOM
(%)
14.3
6.0
3.0
2.5
3.2
0.3
0.6
0.2
-
-
30.1

2023	
SOM	
(%)	
24.6	
3.7	
0.8	
3.9	
0.3	
1.9	
-	
3.6	
0.0**	
0.0**	
38.8	





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Total Illegal %	36.5
Other Illegal	0.2

2.3	
32.4	

7.6	
46.4	





18

Top 10 Illegal Cigarettes Brands* For Penang

Volume contribution to National = 5%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	32.9
2.	Gudang Garam	2.9
3.	Manchester*	1.4
4.	Forman*	1.4
5.	Pragon*	1.0
6.	M*	1.0
7.	Saat	0.9
8.	Tex	8.0
9.	Luffman	0.7
10.	Concept*	0.7
	Top 10 Total	43.7

Jan, 2024
SOM
(%)
36.4
2.6
1.5
0.4
0.7
0.5
-
1.1
0.4
0.9
44.5

2023	
SOM	
(%)	
31.4	
2.8	
2.5	
0.3	
1.0	
0.6	
1.4	
1.0	
0.4	
0.9	
42.3	



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Other Illegal	2.2
Total Illegal %	45.9

3.3	
47.8	

4.5	
46.8	



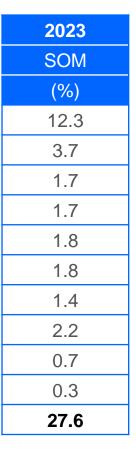
Top 10 Illegal Cigarettes Brands* For Perak

Volume contribution to National = 3%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	10.6
2.	D&J	4.1
3.	Misto*	3.1
4.	9 th Century*	2.5
5.	Manchester*	1.8
6.	Canyon	1.5
7.	Pragon*	1.4
8.	Concept*	8.0
9.	Gudang Garam	0.7
10.	Lee*	0.6
	Top 10 Total	27.1

Jan, 2024
SOM
(%)
12.9
3.9
3.1
2.3
1.6
1.6
1.0
1.3
0.8
0.1
28.6

2023	
SOM	
(%)	
12.3	
3.7	
1.7	
1.7	
1.8	
1.8	
1.4	
2.2	
0.7	
0.3	
27.6	











Other Illegal	5.1
Total Illegal %	32.2

4.6	
33.2	

6.8
34.4





Top 10 Illegal Cigarettes Brands* For Selangor

Volume contribution to National = 16%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	8.9
2.	L.A.	6.8
3.	Gudang Garam	5.5
4.	U2	4.5
5.	Canyon	3.6
6.	Zon King	2.8
7.	Luffman	2.6
8.	A380*	1.9
9.	Sampoerna	1.4
10.	Misto*	1.1
	Top 10 Total	39.1

Other Illegal

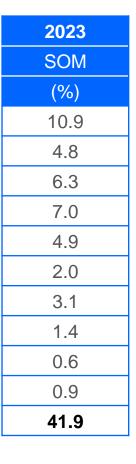
Total Illegal %

4.0

43.1

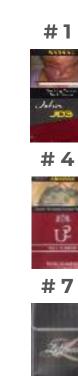
Jan, 2024
SOM
(%)
8.1
6.2
4.6
5.7
4.8
3.1
3.8
2.5
0.7
1.0
40.5

2023	
SOM	
(%)	
10.9	
4.8	
6.3	
7.0	
4.9	
2.0	
3.1	
1.4	
0.6	
0.9	
41.9	



3.4

45.3





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BOLD® SAGILIE FINES	Serge-
# 5	# 6
ryon	ZON
# 8	# 9
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AMARAN	





4.2

44.7

Top 10 Illegal Cigarettes Brands* For WP KL

Volume contribution to National = 7%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	10.9
2.	U2	6.9
3.	L.A.	6.8
4.	Gudang Garam	5.1
5.	Luffman	3.1
6.	Canyon	2.5
7.	Zon King	2.1
8.	Sampoerna	1.3
9.	Bosston*	0.4
10.	9 th Century*	0.3
	Top 10 Total	39.4

Other Illegal

Total Illegal %

1.6

41.0

Jan, 2024
SOM
(%)
9.4
7.8
6.6
4.9
4.1
3.8
2.8
1.2
0.1
0.2
40.9

2023	
SOM	
(%)	
11.0	
7.3	
5.0	
4.4	
4.4	
3.9	
3.2	
0.6	
0.2	
0.1	
40.1	

11.0
7.3
5.0
4.4
4.4
3.9
3.2
0.6
0.2
0.1
40.1
1.3
41.4



























1.2

42.1

Top 10 Illegal Cigarettes Brands* For Negeri Sembilan

Volume contribution to National = 3%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	A380*	8.3
2.	Misto*	7.0
3.	Canyon	6.2
4.	John	5.4
5.	6 th Sense*	4.4
6.	Concept*	1.3
7.	Gudang Garam	1.3
8.	Bosston*	1.0
9.	Vson*	8.0
10.	Touro	8.0
	Top 10 Total	36.5

Jan, 2024
SOM
(%)
9.0
6.5
7.2
5.6
2.8
0.3
0.8
1.0
0.3
0.4
33.9

2023	
SOM	
(%)	
6.9	
6.8	
7.9	
5.0	
2.8	
0.4	
3.0	
1.0	
0.1	
0.1	
34.0	

2	2023	
	SOM	
	(%)	
	6.9	
	6.8	
	7.9	
	5.0	
	2.8	
	0.4	
	3.0	
	1.0	
	0.1	
	0.1	
	34.0	



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Other Illegal	4.3
Total Illegal %	40.8

8.1	
42.0	

7.3
41.3



Top 10 Illegal Cigarettes Brands* For Melaka

Volume contribution to National = 4%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	Bosston*	14.6
2.	John	12.6
3.	Canyon	7.8
4.	Misto*	6.2
5.	SOHO*	4.1
6.	Gudang Garam	2.9
7.	Pragon*	2.5
8.	Galaxy*	1.8
9.	Zon King	1.7
10.	Promax	1.1
	Top 10 Total	55.3

Jan, 2024
SOM
(%)
13.3
16.3
4.6
7.4
1.4
1.5
5.2
1.8
0.2
0.2
51.9

2023	
SOM	
(%)	
4.9	
10.7	
7.7	
4.1	
7.6	
2.2	
1.3	
0.8	
0.2	
3.1	
42.6	

















#6

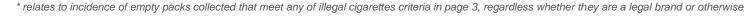




Other Illegal	4.1
Total Illegal %	59.4

4.3	
56.2	

6.6
49.2





Top 10 Illegal Cigarettes Brands* For Johor

Volume contribution to National = 20%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	Canyon	8.1
2.	Bosston*	6.3
3.	John	6.2
4.	U2	5.7
5.	Misto*	4.4
6.	NYX	4.2
7.	D&J	3.2
8.	Concept*	2.2
9.	Promax*	2.2
10.	Galaxy*	2.0
	Top 10 Total	44.5

Jan, 2024
SOM
(%)
10.9
6.6
5.9
3.7
4.4
4.3
4.3
1.8
1.2
0.3
43.4

2023	
SOM	
(%)	
13.2	
3.3	
8.9	
5.8	
2.9	
1.9	
1.8	
1.3	
1.4	
0.9	
41.4	



#1	# 2
anyon	AMARAN VINES OF DESIGNATION BOSSION
# 4	# 5
LP LP	THE SEASON SEASO
# 7	#8
Ba.J	CONCEPT



Other Illegal	10.5
Total Illegal %	55.0

13.6
57.0

14.6
56.0



















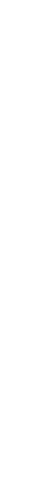
Top 10 Illegal Cigarettes Brands* For Pahang

Volume contribution to National = 14%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	36.4
2.	Canyon	9.2
3.	Gudang Garam	7.9
4.	Bosston*	6.8
5.	Concept	6.5
6.	U2	6.0
7.	L.A.	1.4
8.	Pragon	0.9
9.	Gajah Baru	0.5
10.	Galaxy	0.4
	Top 10 Total	76.0

Jan, 2024
SOM
(%)
34.7
4.9
14.9
13.5
-
12.4
-
-
-
-
80.4

2023	
SOM	
(%)	
29.4	
11.7	
9.4	
7.3	
2.3	
11.7	
0.6	
1.0	
0.7	
0.0**	
74.1	



#1	
Color Jos	
# 4	
BOSSTON	
# 7	
•	
LA	1



# 2	#3
Cenyon	GARAM
# 5	# 6
CONCEPT	POR UP
#8	# 9
Progon	GAJAN BAR
# 10	
AWARAN	



0.3
80.7

3.6
77.7



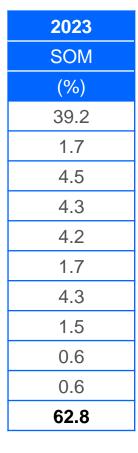
Top 10 Illegal Cigarettes Brands* For Terengganu

Volume contribution to National = 4%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	36.1
2.	Misto*	9.0
3.	Saat	4.1
4.	Pragon*	3.5
5.	U2	3.0
6.	Bosston*	2.5
7.	Gudang Garam	2.4
8.	Premium	1.4
9.	Gajah Baru	1.2
10.	A380*	1.1
	Top 10 Total	64.3

Jan, 2024
SOM
(%)
41.5
5.8
5.5
3.0
2.8
2.1
2.7
1.4
0.1
0.8
66.4

2023	
SOM	
(%)	
39.2	
1.7	
4.5	
4.3	
4.2	
1.7	
4.3	
1.5	
0.6	
0.6	
62.8	





2
Merolek Merysharkan Kanter I Itali
MISTO
5







Other Illegal	5.1
Total Illegal %	69.4

4.1
70.5

5.6	
68.4	























Top 10 Illegal Cigarettes Brands* For Kelantan

• Volume contribution to National = 3%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	John	40.3
2.	Saat	8.8
3.	Premium	0.4
4.	Gudang Garam	0.4
5.	Lee	0.3
6.	Pragon*	0.3
7.	Concept*	0.2
8.	Galaxy*	0.1
9.	Tex	0.1
10.	Vson*	0.1
	Top 10 Total	51.0

Other Illegal

Total Illegal %

0.1

51.1

Jan, 2024
SOM
(%)
31.4
25.4
0.1
0.6
1.8
0.2
0.1
0.5
-
-
60.1

2023	
SOM	
(%)	
32.2	
17.6	
1.5	
2.4	
0.9	
0.1	
0.8	
0.0**	
0.7	
-	
56.2	

0.7

56.9







#3

#6



0.2

60.3

Top 7 Illegal Cigarettes Brands* For Sabah

Volume contribution to National = 11%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	Era	70.4
2.	Premium	5.3
3.	D&J	1.8
4.	Grow	0.8
5.	L.A.	0.2
6.	Gudang Garam	0.2
7.	Win Mlld	0.0**
	Top 7 Total	78.7

Other Illegal

78.7

Total Illegal %

Jan, 20	24
SOM	
(%)	
71.7	
2.9	
1.1	
-	
0.8	
1.7	
-	
78.2	

0.7

78.9

2023	
SOM	
(%)	
73.1	
2.2	
0.7	
-	
1.8	
0.1	
0.3	
78.2	

0.2	
78.4	

1











#2



#5



#3



#6







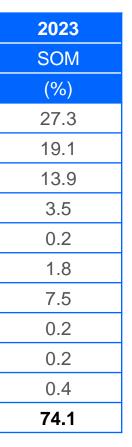
Top 10 Illegal Cigarettes Brands* For Sarawak

Volume contribution to National = 10%

		Mar, 2024
		SOM
	Illegal Brand	(%)
1.	Era	35.7
2.	Parkway	20.9
3.	Rave	10.4
4.	D&J	4.3
5.	Gajah Baru	2.5
6.	S Super	2.3
7.	L.A.	1.4
8.	George Karelia	0.6
9.	Djarum	0.6
10.	Saigon	0.3
	Top 10 Total	79.0

Jan, 2024
SOM
(%)
33.7
25.6
10.2
1.7
-
1.5
5.1
-
0.3
-
78.1

2023	
SOM	
(%)	
27.3	
19.1	
13.9	
3.5	
0.2	
1.8	
7.5	
0.2	
0.2	
0.4	
74.1	

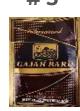
















Other Illegal	1.7
Total Illegal %	80.7

2.	.2
80	.3

6.1
80.2





#	5
777	

#8

#10







Appendix: Nielsen's ICS Research Objective & Methodology



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Research Objectives

- 1
- Identify the incidence & trend of illegal cigarettes in Malaysia & at State Level

- 2
- Identify the illegal brands available in Malaysia and at State Level

- 3
- Identify the level of compliance vs. non-compliance on cigarette packs
 - I. Security features (Tax Stamps)
 - II. Brands of Local Manufacturers and Importers registered with Royal Malaysian Customs
 - III. Mandated Labeling Requirements (under Control of Tobacco Product Regulations, Trade Description Act, Price Control & Anti Profiteering Act)



Overview Of Study Framework

METHODOLOGY

- Method: Litter collection of cigarette packs.
- Frequency: 6 waves in a year.
- Geographical coverage: Nationwide (Pen. M'sia and Sabah & Sarawak)
- Sample size: Nationwide 21,200 packs per wave (Pen M'sia = A minimum of 1,200 packs per State, Sabah & Sarawak = 1,600 packs each, Putrajaya & Labuan = 400 packs each)

PROCESS

SAMPLING ERROR

Packs
collection

Coding
of packs

Coding
of packs

Coding
of packs

Lembah Sari Sdn Bhd

Verification of security features by Member companies

Analysis & Reporting

0.6% at national level and minimum 5.0% at state level

ICS Research Methodology & Design

- I. ICS Universe, Sample Size
- II. Sampling Coverage Of ICS and Fieldwork
- III. Coding Processes
- IV. Data Processing
- V. Weighting The Survey Data



Why Sample Size of 20,000 packs?

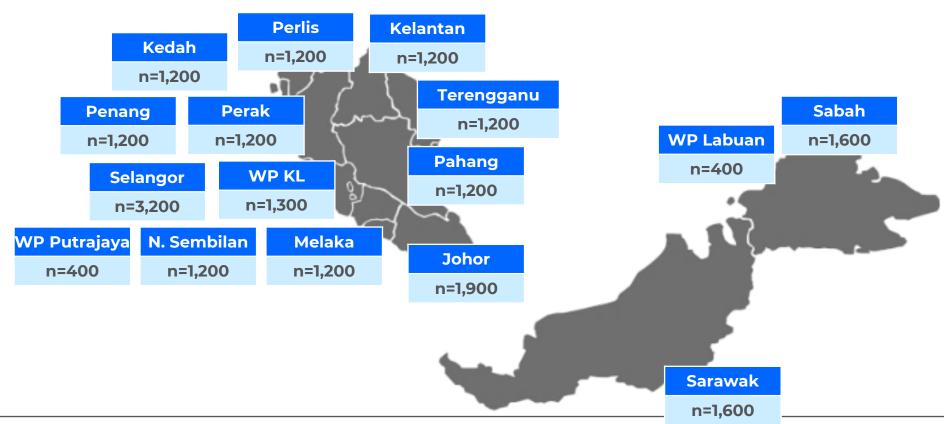
Sample Size (n=)	Sampling Error @ 95% Confidence
n=50	14.9%
n=100	9.9%
n=250	5.9%
n=500	4.1%
n=1,000	2.8%
n=2,000	2.0%
n=3,000	1.6%
n=4,000	1.4%
n=10,000	0.8%
n=20,000	0.6%
n=50,000	0.4%

- The data accuracy for a sample size is dependent on the sample size of a study; Sampling error declines as sample size for a study is increased
- To ensure minimal sampling error at National level, sample size of n=20,000 was chosen
- At State level, a minimum sample size of n=1,200 was chosen to optimize data accuracy without impacting the efficiency of fieldwork turnaround time. However, n=400 for Putrajaya and Labuan due to population size consideration.



Geographical Coverage & Sample Size For Each State

- State in Pen Malaysia, minimum sample size n=1,200
- State in East Malaysia, sample size n=1,600
- These sample size are robust taking into consideration geographical landscape, different cigarettes volume pattern and efficient turnaround of fieldwork





ICS Research Methodology & Design

- I. ICS Universe, Sample Size
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Sampling Coverage of ICS

STATE	DISTRICT COVERED		
Perlis	Kangar		
Kedah	Kuala Muda	Kota Setar	Kulim
	Kubang Pasu	Baling	Pendang
Penang	Timur Laut	Seberang Perai Tengah	Seberang Perai Utara
Perak	Kinta	Larut & Matang	Manjung
	Hilir Perak	Kerian	
Selangor	Petaling	Ulu Langat	Klang
	Gombak	Kuala Langat	
WP	Spread across KL	Spread across Putrajya	Spread across Labuan
N. Sembilan	Seremban	Jempol	Port Dickson
	Tampin		
Melaka	Melaka	Alor Gajah	
Johor	Johor Bahru	Batu Pahat	Kluang
	Kulai Jaya	Muar	Kota Tinggi
Pahang	Kuantan	Temerloh	Bentong
	Maran	Rompin	Pekan
Terengganu	Kuala Terengganu	Kemaman	Dungun
	Besut		
Kelantan	Kota Bharu	Pasir Mas	Tumpat
	Bachok	Tanah Merah	
Sabah	Kota Kinabau	Tawau	Sandakan
	Lahad Datu	Keningau	Semporna
	Papar	Penampang	Beluran
	Tuaran	Ranau	Kota Belud
Sarawak	Kuching	Miri	Sibu
	Bintulu	Serian	Samarahan
	Sri Aman	Sarikei	Kapit
	Bau	Limbang	Saratok

- Nationwide
- All 13 states in Peninsular and East Malaysia and 3 Federal Territories
- Covers each state's top 50% most populous districts
- The sampling approach ensure both Urban
 & Rural coverage reflects data released by Malaysia Department of Statistic (Census 2010)



Flow Chart For Pre-Fieldwork & Fieldwork

Establish starting point of collection



Collect 25 packs from the street each week

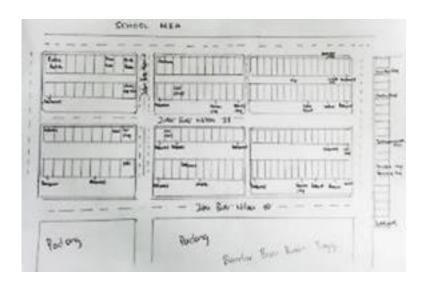


Attach label to bag: Standard label with the following:

- State
- Location collected
- Area type
- Date of collection



Packs will then be delivered to Nielsen's Head Office at KL for coding







Guidelines For Pack Collection

- All Packs collected from the collection points must be in decent condition. If not Lembah Sari Sdn. Bhd. will not be able to
 validate the authenticity of a pack if the packs are so badly damaged that certain key elements are missing
- Instruction to collectors is to collect pack in decent condition.
- No instruction on brand restriction is issued (hence, <u>rejection of packs in poor condition applies to all</u> brands)
- As such, collectors will have no preference on the packs being collected as long as it is in decent condition
- Remuneration for packs collected are standard across all pack type / brand







Visual Examples of Unacceptable Packs



ICS Research Methodology & Design

- I. ICS Universe, Sample Size
- II. Sampling Coverage Of ICS and Fieldwork
- **III. Coding Processes**
- IV. Data Processing
- V. Weighting The Survey Data



A Robust SOP For Pack Verification & Coding Process

The following diagram illustrates the pack verification & coding process

Data Cleaning & Pack Collection Quality Control Data Entry Processing Weekly 10% Weekly Weekly Weekly Pack Sorting & **Data Checking/ Preparation for Lembah Sari** Warehouse **Lembah Sari Review** Reporting Review Storage Wave End Wave End Weekly Weekly 9 **Preparation for** Check Packs & **Compile Lembah Excel Sheet** Sari & CMTM's Lembah Sari **CMTM Verifications** verification to CMTM to Verify **Feedback** Wave End Wave End Wave End End of Wave 13 14 15 **Data Change Pack Disposal & Final Tabulation Final Reporting** Instructions to DP Wave End **Wave Gaps** Wave End Wave End





Coding & Storage Process At Nielsen HQ



1. Packs which arrive at Nielsen HQ are assigned a unique pack ID number



Pack Sample

A unique ID is assigned to each pack when it reach Nielsen HQ

Each cigarettes pack which arrive will have a sticker with details on when and where it is collected



Coding & Storage Process At Nielsen HQ



2. Once the pack ID number is assigned, data entry process will begins. All information on the pack will be captured

3. When data entry is completed, the packs are sorted by brands and types





Coding & Storage Process At Nielsen HQ

4. Once the sorting is complete, the cigarettes packs are stored on shelves with labeling for easy retrieval when required







Illegal Cigarettes Criteria For Verification

Packs with at least one (1) of the following features:

- Absence of Registered Importers
- Unregistered Importers*
- 3. Absence of Registered Manufacturers
- Unregistered Manufacturers*
- 5. Packs with counterfeit (fake) Malaysian tax stamp**
- 6. Packs without Malaysian tax stamp
- 7. Packs with non-Malaysian tax stamp
- Unregistered Brand*
- 9. Non Compliance to Ministry of Health's Control of Tobacco Product Regulations (CTPR) 2004
 - Absence or Non Compliance of Pictorial Health Warning Requirements
 - II. Pack Size other than 20 sticks
 - III. Absence or Non Compliance of mandated labeling requirements





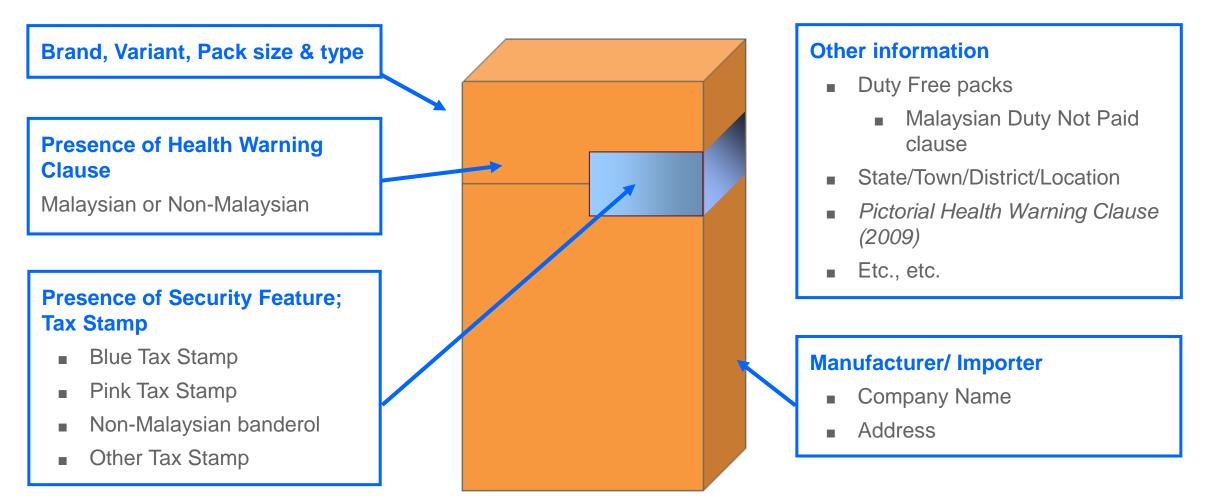
Regulations Set By The Malaysian Government

- All locally manufactured cigarettes and imported cigarettes are required to meet the following criteria:
 - Registered brand with Customs
 - Registered manufacturer with Customs
 - Registered importer with Customs (if it is an imported pack)
 - Malaysian labeling requirements i.e. pictorial health warning clause, textual health warning clause, "no sales to under 18" clause, manufacturing date, name and address on manufacturer/importer
 - Pack size of not less than 20 sticks
- Additional security features for imported / manufactured packs for <u>domestic</u> consumption:
 - Blue tax stamp
- Additional security features for imported / manufactured packs for <u>duty free</u> consumption:
 - Pink tax stamp



Visible Elements Captured By ICS

The following visible elements is **checked & coded / captured** for **each** of the collected packs by Nielsen Malaysia



Information on registered brands, registered manufacturers/ Importers is provided by CMTM



Verification Of Security Tax Stamp

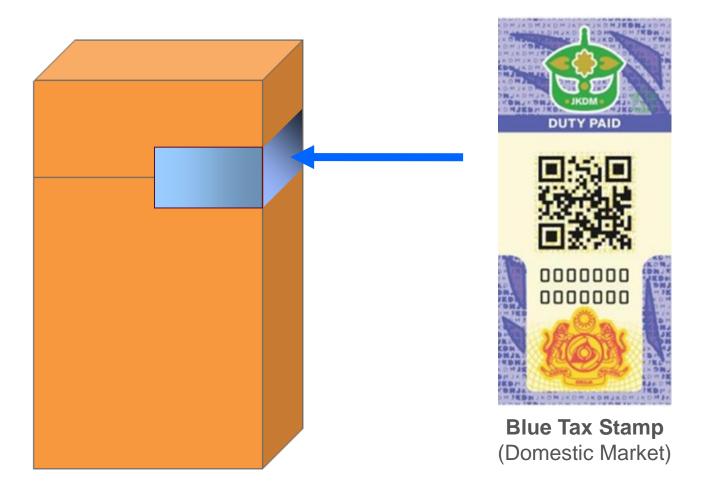
- Tax Stamps are verified by Lembah Sari using the special reader/tool
- Verification outcome: sign off by Lembah Sari & Nielsen as witness

1 2					•	
	Α	В	Ċ	D	G	H
1	Local Manufact: F = Fake		X = N	o luk	G50 = genuine security ink, DF/MY - fake (tam	
2	No	Pack ID	Brand	Pack Size		Remarks (by LSSB)
3		System			Socurity lak	Other Comments
10	- 7	30720	John	20	F	
11	- 8	111197	John	20	F	
12	- 9	110215	John	20	F	
13	10	101121	John	20	F	
14	11	40886	John	20	F	
15	12	40782	John	20	F	
16	13	121022	John	20	F	
17	14	100613	John	20	F	
18	15	121195	John	20	F	
19	16	110975	John	20	F	
20	17	60734	John	20	F	
21	18	110977	John	20	F	
22	19	41164	John	20	F	
23	20	40784	John	20	F	
24	21	40689	John	20	F	
25	22	40768	John	20	F	
26	23	40711	John	20	F	
27	24	10938	John	20	F	
28	25	41090	John	20	F	
29	26	40882	John	20	F	
30	27	40996	John	20	F	
31	28	4167	John	20	F	
32	29	111168	John	20	F	
33	30	41032	John	20	F	
34	31	40639	John	20	F	
35	32	120799	John	20	F	
36	33	40843	John	20	F	
37	94	4088	Jahra	20		
14 4		 Template 	- BATM / Temp	lete - PMI	Templata - JTI. /	Template - RHC Importer), Template - ELPC /





Verification Of Security Tax Stamp





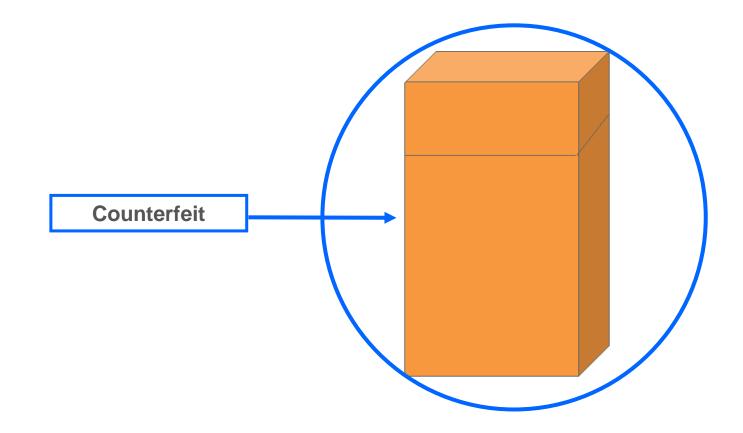


Pink Tax Stamp (Duty Free Market)



Verification Of Non-Visible Elemenets

- Only applicable to CMTM members' brands
- Verification by the respective member companies' technical experts
- Pack IDs of identified Counterfeit packs are given to Nielsen Malaysia





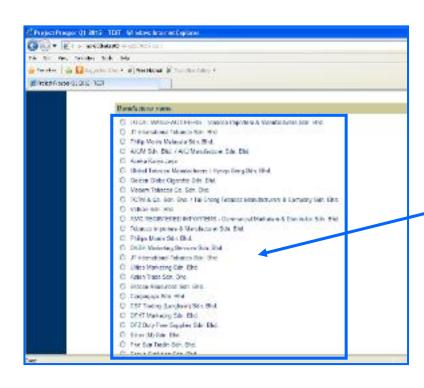
ICS Research Methodology & Design

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- **IV.** Data Processing
- V. Weighting The Survey Data



Data Processing (Data Cleaning & Merging)

- Software program to ensure data accuracy
- Logic checks on brand and manufacturers
- Security feature verification results merged into data file

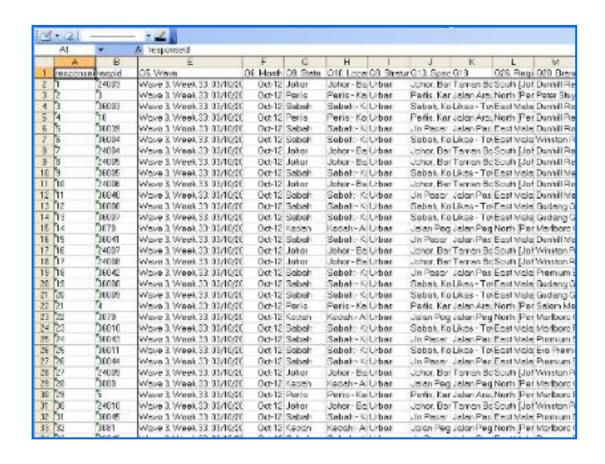


Control of Response List by Researchers

- Data entry can only input data as per the response list provided
- Any new information to be added to the response list is subject to Research Team approval
- Research Team will review and validate the new details before adding in any new response into the system



Data Processing (Quality Control)



10% of data entered into the database will be crosscheck by a QC personnel to ensure data accuracy and coders are capturing the data correctly

QC personnel will randomly select 10% of packs which has been keyed into the system, cross-compare to ensure pack features is similar to what has been recorded in the system and rectify the data

Besides completing a 10% physical QC check, the database is reviewed to check for data discrepancy against known facts

- E.g. Dunhill belongs to BAT M'sia ,
- Legal packs comes only in pack size of 20s

If any data discrepancies are detected, the affected pack will be extracted and a physical validation process will be undergone



ICS Research Methodology & Design

- I. ICS Universe, Sample Size
- II. Sampling Coverage Of ICS and Fieldwork
- III. Coding Processes
- IV. Data Processing
- V. Weighting The Survey Data



Step 1 : Establish the Estimated Legal Industry Volume

- The estimated legal industry volume is established based on the following information:
 - In-market sales as provided independently by British American Tobacco Malaysia (BATM), Philip Morris Malaysia (PMM) and Japan Tobacco International (JTI)
 - Local manufacturers' volume and Malaysian Duty Free volume from Illicit Cigarettes Study (ICS)

	Mar, 2024	
	('000 sticks)	
CMTM Member Companies (BATM, PMM, JTI)	564,105	Derive from actual in-market sales as provided by CMTM member companies
Other Local manufacturers	0	ICS volume estimation is used as substitute
Malaysian Duty Free	843	since actual data is not available
Total Legal Cigarettes Sales	564,948	

Unit of measurement: thousand sticks





Step 2: Establish the Legal Industry Volume contribution by State

 Using in-market sales (3 months average) as provided by CMTM member companies as a guideline, establish each states' legal volume contribution towards the national volume of 564,948,000 sticks

	IN-MARKET SALES BY CMTM	STATE'S LEGAL VOLUME CONTRIBUTION	Step 2a. (Using In-N State Legal Volume	= <u>State's In-M</u>		tribution	
PERLIS	3,306	0.6%	-	(e.g. 124,927 / 544,168 = 23.0%)			
KEDAH	23,360	4.3%	_				
PENANG	39,372	7.2%			0=1==(0.1=0.1	PROJECTED/	
PERAK	41,728	7.7%		IN-MARKET SALES	VOLUME CONTRIBUTION	ESTIMATED STATE LEGAL VOLUME	
SELANGOR	124,927	23.0%					
WP KL	65,252	12.0%					
WP PUTRAJAYA	282	0.1%					
N.SEMBILAN	26,552	4.9%	SELANGOR	124,927	23.0%	129,698	
MELAKA	20,114	3.7%					
JOHOR	111,379	20.5%	NATIONAL	544,168		564,948	
PAHANG	23,615	4.3%					
TERENGGANU	10,874	2.0%	- Step 2b.				
KELANTAN	14,738	2.7%	Projected States Leg	al Volume			
WP LABUAN	250	0.0%	= State Legal Volume Contribution X National Legal Volume (derived from In-Market Sales) (obtained from Step 1)			olume	
SABAH	20,485	3.8%				Step 1)	
SARAWAK	17,935	3.3%	/o. a. 00.00/ v. 504.0	NAO 400 000			
NATIONAL	544,168		(e.g. 23.0% x 564,948 = 129,698)				



Step 2 : Key Output

	IN-MARKET SALES BY CMTM	STATE'S LEGAL VOLUME CONTRIBUTION	PROJECTED/ ESTIMATED STATE LEGAL VOLUME
PERLIS	3,306	0.6%	3,432
KEDAH	23,360	4.3%	24,252
PENANG	39,372	7.2%	40,876
PERAK	41,728	7.7%	43,322
SELANGOR	124,927	23.0%	129,698
WP KL	65,252	12.0%	67,743
WP PUTRAJAYA	282	0.1%	293
N.SEMBILAN	26,552	4.9%	27,566
MELAKA	20,114	3.7%	20,882
JOHOR	111,379	20.5%	115,632
PAHANG	23,615	4.3%	24,517
T'GANU	10,874	2.0%	11,290
KELANTAN	14,738	2.7%	15,301
WP LABUAN	250	0.0%	259
SABAH	20,485	3.8%	21,267
SARAWAK	17,935	3.3%	18,620
NATIONAL	544,168		564,948





Step 3: Establish the Incidence for Legal / Illegal Cigarettes

- Convert the data from "packs collected" to "sticks" (based on pack size)
- The study's unit of measurement is based on consumption in sticks
 - Though CTPR prohibits the sales of cigarettes below the pack sizes of 20 sticks, illegal cigarettes (primarily for illegal kretek) could still be found in pack sizes below 20 sticks
 - The calculation based on number of packs collected will create a false inflation on illegal volume due to the presence of packs sizes below 20 sticks

State	Total packs collected (Mar'24)	Number of legal packs collected	(Unweighted) Volume of legal packs collected	Number of illegal packs collected	(Unweighted) Volume of illegal packs collected	Total volume (Legal + Illegal)	Incidence of legal cigarettes	Incidence of illegal cigarettes
			Α		В	C = A + B	D = A / C	E = B / C
SELANGOR	3,200	1,765	35,300	1,435	26,688	61,988	56.9%	43.1%

Step 3a.

Sum up the number of sticks per pack for all legal packs collected to establish the estimated legal volume in sticks

Step 3b.

Repeat Step 3a to establish the estimated illegal volume in sticks

Step 3c.

Sum up the total consumption for both legal and illegal to establish The estimated total cigarette volume at state level

Step 3d.

Calculate the ratio of estimated legal vs. illegal volume



Top 10 Illegal Cigarettes Brands* For Sarawak

Step 3: Incidence for Legal / Illegal Cigarettes Key Output

Establish the level of legal vs. illegal cigarettes ratio in each respective state

State	Total packs collected (Mar'24)	Number of legal packs collected	(Unweighted) Volume of legal packs collected	Number of illegal packs collected	(Unweighted) Volume of illegal packs collected	Total volume (Legal + Illegal)	Incidence of legal cigarettes	Incidence of illegal cigarettes
			Α		В	C = A + B	D = A / C	E = B / C
PERLIS	1,200	618	12,360	582	11,448	23,808	51.9%	48.1%
KEDAH	1,200	759	15,180	441	8,740	23,920	63.5%	36.5%
PENANG	1,200	638	12,760	562	10,815	23,575	54.1%	45.9%
PERAK	1,200	810	16,200	390	7,698	23,898	67.8%	32.2%
SELANGOR	3,200	1,765	35,300	1,435	26,688	61,988	56.9%	43.1%
WP KL	1,300	744	14,880	556	10,349	25,229	59.0%	41.0%
WP PUTRAJAYA	400	227	4,540	173	3,122	7,662	21.3%	78.7%
N.SEMBILAN	1,200	704	14,080	496	9,702	23,782	59.3%	40.7%
MELAKA	1,200	479	9,580	721	14,037	23,617	59.2%	40.8%
JOHOR	1,900	848	16,960	1,052	20,768	37,728	40.6%	59.4%
PAHANG	1,200	240	4,800	960	18,465	23,265	45.0%	55.0%
T'GANU	1,200	362	7,240	838	16,441	23,681	20.6%	79.4%
KELANTAN	1,200	585	11,700	615	12,236	23,936	30.6%	69.4%
WP LABUAN	400	82	1,640	318	6,280	7,920	19.3%	80.7%
SABAH	1,600	340	6,800	1,260	25,084	31,884	48.9%	51.1%
SARAWAK	1,600	304	6,080	1,296	25,368	31,448	20.7%	79.3%





Step 4 : Project Total Market Volume

 Once each states' estimated legal volume and legal incidence have been established, the numbers will be used to project total industry volume for each state

	STATE LEGAL VOLUME	LEGAL INCIDENCE	TOTAL MARKET VOLUME	STATE ILLEGAL VOLUME
	А	В	C = A / B	D = C - A
SELANGOR	129,698	56.9%	227,754	98,056

Step 4a.

Based on the incidence for legal cigarettes of 56.9% in Selangor, project the total volume for the state

(e.g. 129.698 divide by 56.9% =

(e.g. 129,698 divide by 56.9% = 227,754)

Step 4b.

Illegal volume is established by subtracting the projected total state's volume with the legal volume (e.g. 227,754 – 129,698 = 98,056)



Step 4: Key Output - Illegal Cigarettes Incidence @ National level

Repeat the same process in Step 4 for all States

	STATE LEGAL VOLUME	LEGAL INCIDENCE	TOTAL MARKET VOLUME	STATE ILLEGAL VOLUME
PERLIS	3,432	51.9%	6,612	3,179
KEDAH	24,252	63.5%	38,215	13,963
PENANG	40,876	54.1%	75,521	34,645
PERAK	43,322	67.8%	63,907	20,586
SELANGOR	129,698	56.9%	227,754	98,056
WP KL	67,743	59.0%	114,859	47,115
WP PUTRAJAYA	293	21.3%	494	201
N.SEMBILAN	27,566	59.3%	46,560	18,995
MELAKA	20,882	59.2%	51,478	30,597
JOHOR	115,632	40.6%	257,227	141,595
PAHANG	24,517	45.0%	118,830	94,313
TERENGGANU	11,290	20.6%	36,926	25,637
KELANTAN	15,301	30.6%	31,303	16,002
WP LABUAN	259	19.3%	1,251	992
SABAH	21,267	48.9%	99,716	78,450
SARAWAK	18,620	20.7%	96,308	77,689
NATIONAL	564,948		1,266,962	702,014

Divide National Illegal Volume 702,014 with National Total Market Volume 1,266,962 55.4%







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