Evidence on 'state store models' in legal cannabis markets

TESTIMONY TO THE PENNSYLVANIA HOUSE HEALTH COMMITTEE

David Hammond PhD





Disclosures

O INDUSTRY FUNDING OR INTERESTS TO DECLARE.

CONSULTANT / PAID SPEAKER / ADVISORY COMMITTEES

- Regulatory agencies e.g., Canada, Australia, UK, EC
- Non-governmental associations e.g., CCS, Heart & Stroke Foundation
- International public health authorities e.g., WHO

PAID EXPERT TESTIMONY - PUBLIC HEALTH LITIGATION

Tobacco

• Canada, Norway, Australia, UK, Ireland, Uruguay, Uganda, NB, AB, Class actions

Vaping

• Canada, NB

Cannabis

• Canada, Quebec

Food & beverage

• San Francisco

There are diverse perspectives on the impact and 'effectiveness' of cannabis legalization.

Industry

- **·Harm reduction**
- Consumers
- Public health



Born gentle

@1936, Philip Merris In

PROUD mothers, please forgive us if we too feel something of the pride of a new parent. For new Philip Morris, today's Philip Morris, is delighting smokers everywhere. Enjoy the gentle pleasure, the *fresh unfiltered flavor*, of this new cigarette, born gentle, then refined to special gentleness in the making. Ask for new Philip Morris in the smart new package.

New Philip Morris...gentle for modern taste

CANNABIS LEGALIZATION Public health impact depends on <u>how cannabis is regulated</u> in legal markets.

INTERNATIONAL PERSPECTIVES Different models for legal cannabis markets.



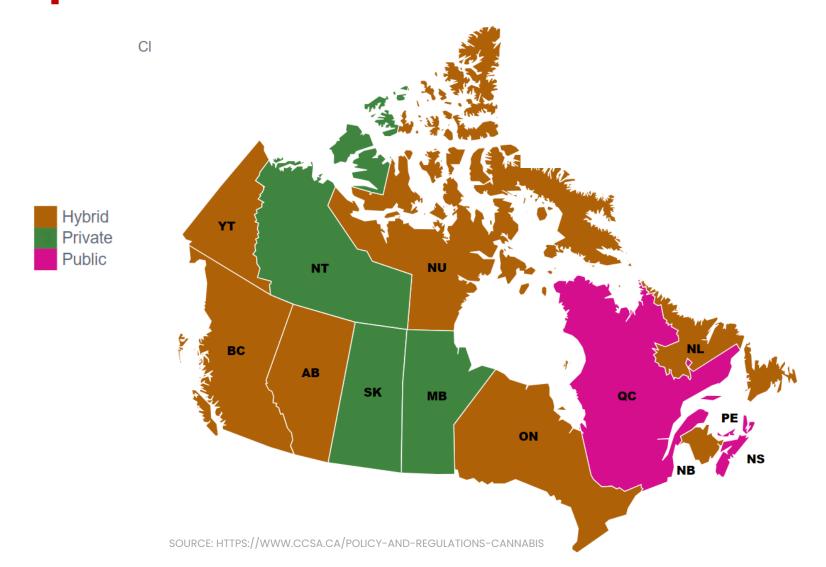


Legal market in Canada involves greater 'state' roles and more restrictive regulations in several areas.

	(*)	
Jurisdictional scope	• Federal & Provincial/Territorial	• State-level
Price/taxation	• Excise flat rate & ad valorem (incl. THC based)	• Variable
Product standards	• THC 10mg limit	• Minimal / Variable
Labelling & warnings	 More comprehensive warnings, standardized packaging 	• Smaller text
Marketing	More comprehensive	• Variable
Retail	• Online sales • Fewer 'opt out'	• Variable
Minimum legal age	• 18, 19, 21 years of age	• 21 years of age

CANADA

States serves as distributors in all jurisdictions. Mix of private and 'state' sales models.



State-run cannabis stores

Spotlight: Crazy Cream Soda Soft Chews 4 pack

Each sugar-dusted 2.5 mg THC bite is bubbling with classic pop flavour, plus notes of cotton candy, vanilla and coconut

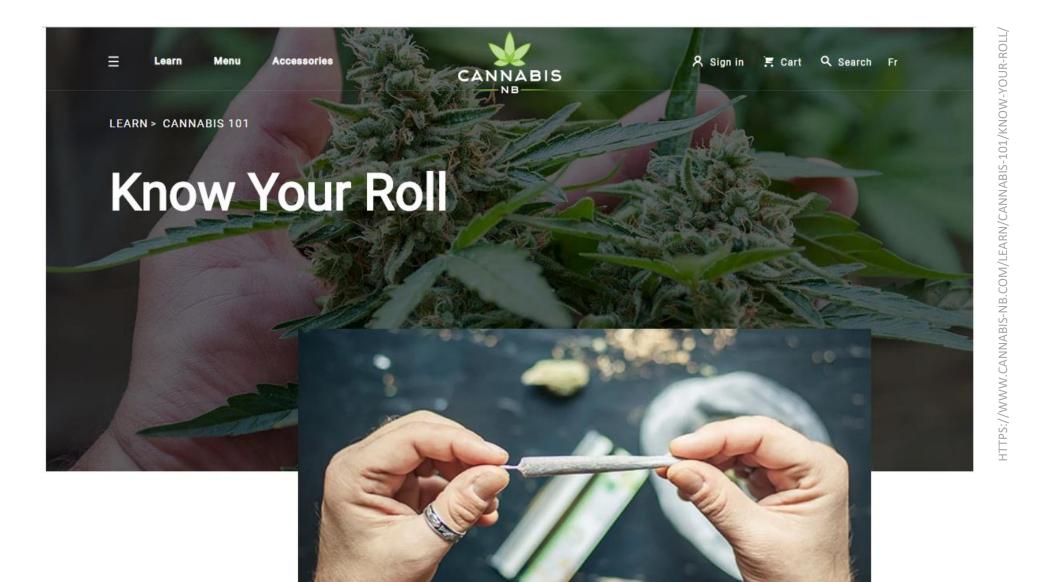


Feedback

BUY NOW

SOURCE: HTTPS://OCS.CA/ (MAY 11 20220)

State-run cannabis stores.



Jurisdictions with greater state control tend to have fewer stores and greater regulatory restrictions.





STATE-MODEL Québec

- · All stores government run
- Minimum legal age of 21
- · Fewer stores per capita
- Enhanced marketing restrictions
- Comprehensive product standards
 - No vaping product
 - 30% THC limit on all products
 - Highly restricted edibles



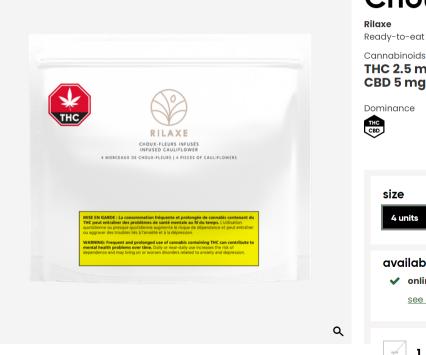
PRODUCT STRENGTH THC levels of vapes ~75%

SOURCE: HAMMOND ET AL., 2023. CANNABIS RETAIL SCAN.

Quebec - Edibles



home / edibles / ready-to-eat / choux-fleurs infusés



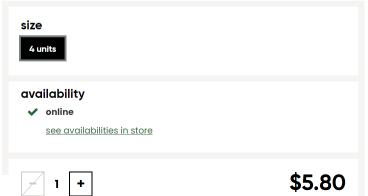
Choux-Fleurs Infusés

Category

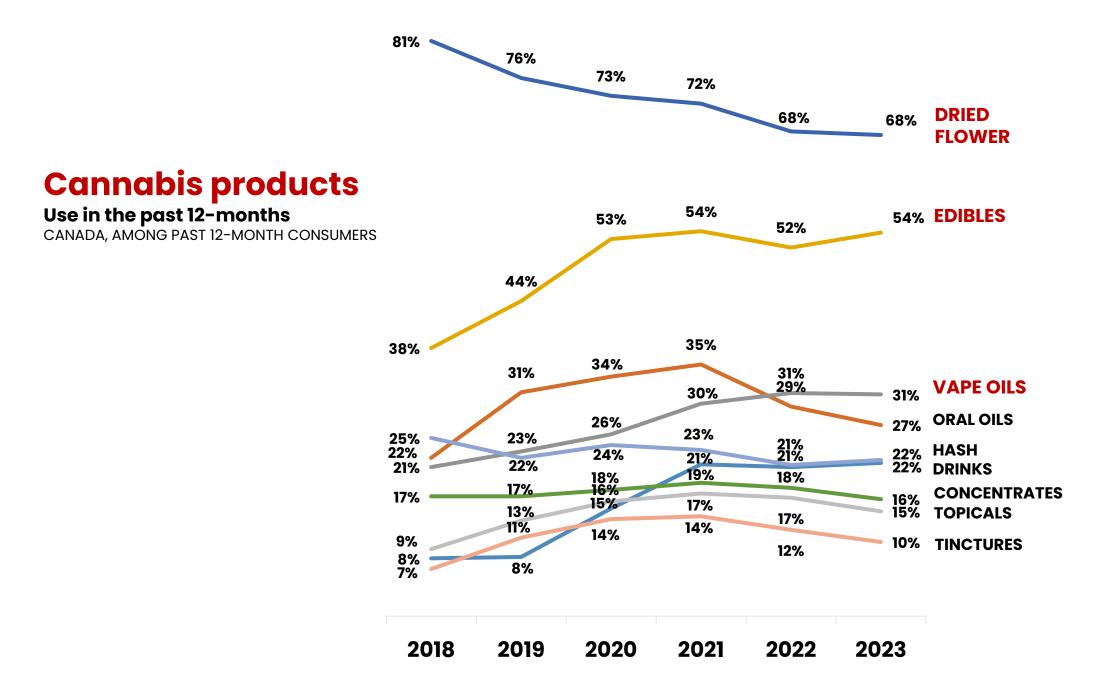
Cannabinoids THC 2.5 mg/unit CBD 5 mg/unit

derived





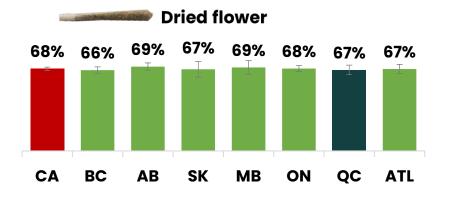
LESSON Cannabis legalization has increased the use of high THC products, but to a lesser extent in 'state-only' models.



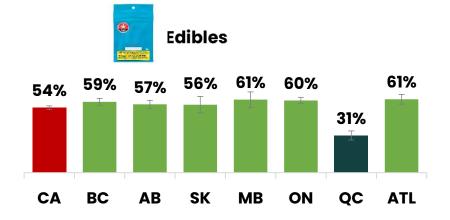
Product regulations

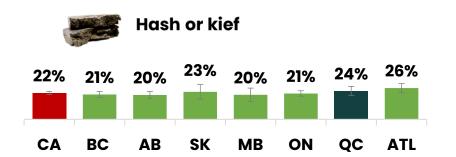
PRODUCT USE AMONG PAST 12-MONTH CONSUMERS 2023

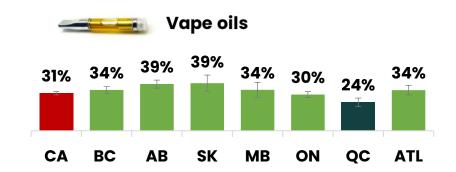
QUEBEC 'LEGAL' SALES



QUEBEC 'RESTRICTED' SALES



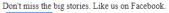




Do product standards sustain illicit trade?

THC caps in Vermont could keep black market alive

By Lex Merrell, Vermont News & Media Jun 19, 2022





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MONTPELIER – The amount of THC – the cannabinoid that produces the high sensation after consumption of cannabis, commonly referred to as marijuana – in concentrates has been capped in Vermont, but some worry that cap could cause the illegal cannabis market to thrive.

Act 158, signed by Gov. Phil Scott at the end of May, states that cannabis concentrates cannot surpass 60 percent THC, a cap backed by science due to concern over the negative effects of highly concentrated cannabis.

Dr. Catherine Antley, a pathologist at Copley Hospital in South Burlington, said, "These are not products used by the 'casual' cannabis consumer." In the 1990s, the average THC content of cannabis in flower form was less than 4 percent. Today, she said, it's about 15 percent.

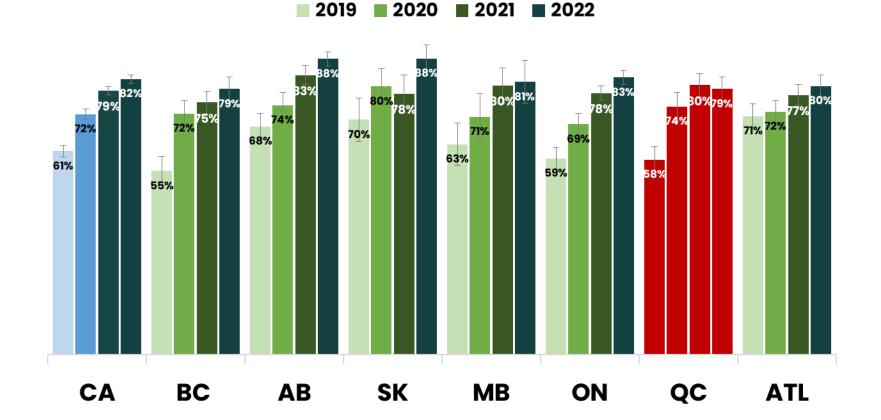
SOURCE: HTTPS://WWW.REFORMER.COM/LOCAL-NEWS/THC-CAPS-IN-VERMONT-COULD-KEEP-BLACK-MARKET-ALIVE/ARTICLE_90E37FE6-EDB7-11EC-ABA1-33DCBC534196.HTML

LESSON Transition from illegal to legal stores has been similar in private vs. state models.

Similar transition to legal market in Quebec to date.

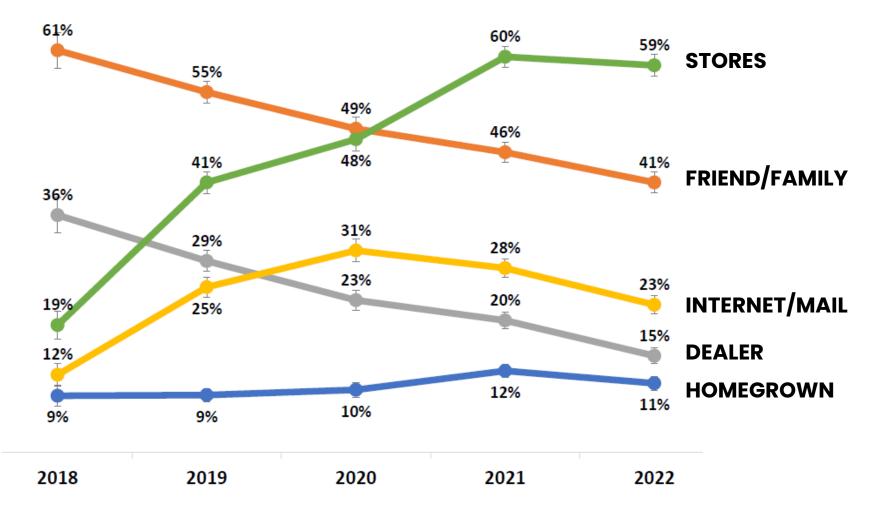
Mean percentage of all cannabis products purchased in last 12-months from a legal retail source

AMONG PAST 12-MONTHS CONSUMERS



Cannabis sources in the past 12-months

AMONG PAST 12-MONTHS CONSUMERS

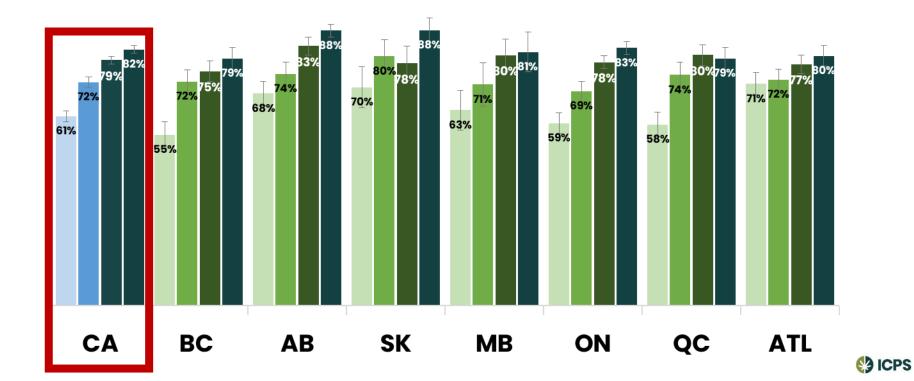


Most consumers report switching to legal market.

Mean percentage of all cannabis products purchased in last 12-months from a legal retail source

SELF-REPORTED AMONG PAST 12-MONTHS CONSUMERS

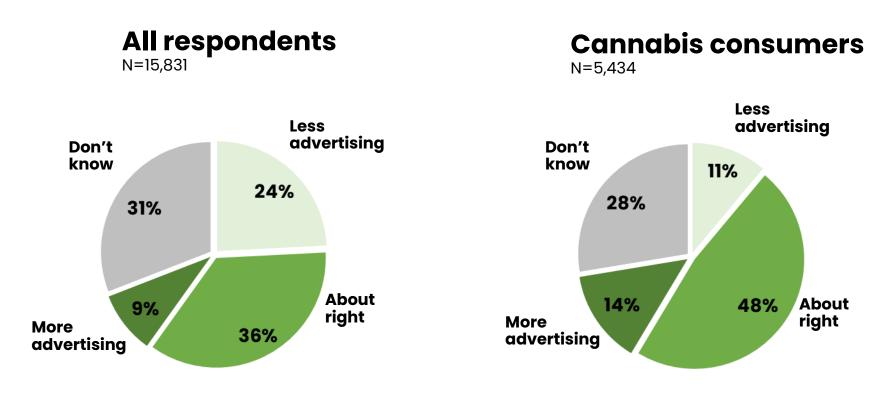
2019 2020 2021 2022



LESSON Consumers support comprehensive regulations in both private and state-models.

Please think about the <u>amount of marijuana</u> <u>advertising</u> in the province where you live.

How much advertising do you think should be allowed?



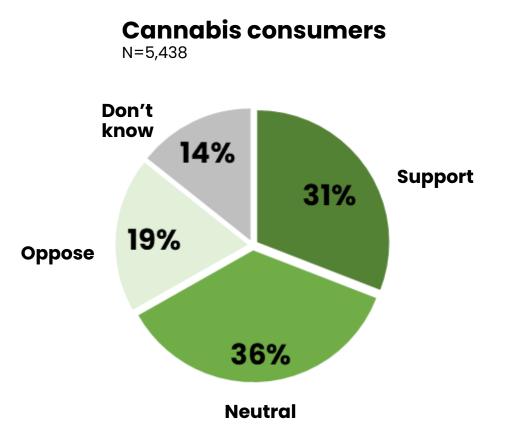


FEDERAL PRODUCT STANDARDS

THC 10mg / package

In Canada, packages of marijuana edibles can include a maximum of 10mg of THC?

Do you support or oppose the <u>THC limit on edibles</u>?



LESSON State models (more comprehensive regulations) associated with fewer increases in cannabis use.



Québec vs. other provinces

Markedly lower prevalence in Québec and little/no increase since legalization vs. rest of Canada.



SOURCES CANADIAN COMMUNITY HEALTH SURVEY*, CANADIAN CANNABIS SURVEY, QUEBEC CANNABIS SURVEY, INTERNATIONAL CANNABIS POLICY SURVEY

CANADA Legislative review

• Legislative Review of the Cannabis Act Final Report of the Expert Panel

https://www.canada.ca/content/dam/hc-sc/documents/services/publications/drugs-medication/legislativereview-cannabis-act-final-report-expert-panel/legislative-review-cannabis-act-final-report-expert-panel.pdf

Government Gouvernement

du Canada

of Canada

Canada

Summary

- State-models provide state regulators with greater means of shaping market.
- State-models <u>may</u> be more effective in achieving public health objectives.
- Very positive consumer perceptions of legal market for both private and state models.
- Little evidence that regulations are associated with legal market capture.

Thank you.

David Hammond PhD

SCHOOL OF PUBLIC SCIENCES UNIVERSITY OF WATERLOO

WEB	DHAMMOND@UWATERLOO.CA
EMAIL	WWW.DAVIDHAMMOND.CA

