



## **Alcopops**



Among underage drinkers, 73.6% consumed a "flavored alcoholic beverage" in the **past month**.

Miech, R. A., Johnston, L. D., Potrick, M. E., O'Malley, P. M., & Bachman, J. G. (2024). Monitoring the Future national survey results on drug use, 1975-2023: Overview and detailed results for secondary school students. Monitoring the Future Monagraph Series. Ann Arbor, Mit Institute for Social Research, Liniversity of Michigan, Available of Suzure: Samigline, is scenating less: the case for investing in noncommunicable diseases. General World Health Organization: 2021. Licence: CC BY-MC-SA 3.0 IGG 17.994/24.394=73.696



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## Alcopop



- Introduced 1980's
- Single serving RTD
- Transitional product
- 1 standard alcoholic drink



# **Supersized** Alcopop

- Introduced 2002 to 2007
- Single serving RTD
- Transitional product
- **4.7 to 5.5** standard alcoholic drinks



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## Supersized Alcopop

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alconolic drinks

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## **Supersized Alcopops: Youth Use**

#### 2011-2012 Nation-Wide Study

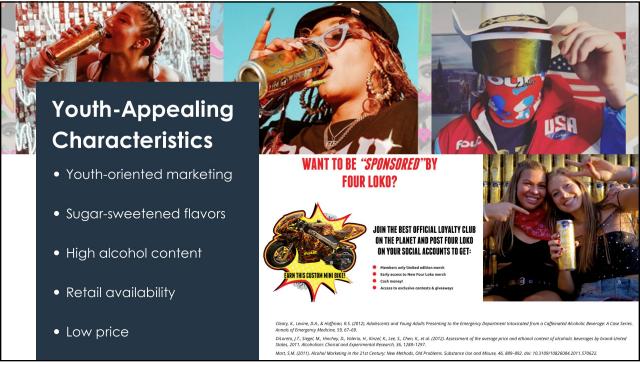
- 9% of underage drinkers consumed a supersized alcopop in the last 30 days
- 6% consumed Four Loko

#### **Preference for Supersized Alcopops**

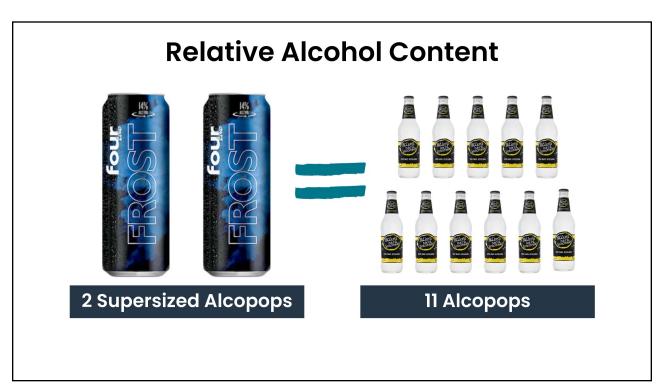
 More likely to consume when they could select the alcohol

Cleary, K., Levine, D.A., & Hoffman, R.S. (2012). Adolescents and Young Adults Presenting to the Emergency Department Intoxicated from a Coffeenated Alcoholic Beverage A Case Series. Annals of Emergency Medicine. 53: 67–69. Discreto, J.T. Siegel, M., Hinchey, D., Valerio, H., Kinck, K., Lee, S., Chien, K., et al. (2017). Assessment of the everage peric and ethanol content of placholic beverages by brand fulled States, 2011. Ascholism: Clinical and Experimental Research. 58: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 58: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental Research. 36: 1288–1297. Marx. SM, (2011). Ascholism Clinical und Experimental University Clinical University Clinica





FOUR LOKO
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FOUR LOKO
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## **Price**

Four Loko is among the **least expensive** ready-to-drink alcohol products available in the retail market.





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BLOOD ALCOHOL CONCENTRATION (BAC) IN G/DL	TYPICAL EFFECTS	PREDICTABLE EFFECTS ON DRIVING
.02	Some loss of judgment; relaxation, slight body warmth, altered mood	Decline in visual functions (rapid tracking of a moving target), decline in ability to perform two tasks at the same time (divided attention)
.05	Exaggerated behavior, may have loss of small-muscle control (e.g., focusing your eyes), impaired judgment, usually good feeling, lowered alertness, release of inhibition	Reduced coordination, reduced ability to track moving objects, difficulty steering, reduced response to emergency driving situations
.08	Muscle coordination becomes poor (e.g., balance, speech, vision, reaction time, and hearing), harder to detect danger; judgment, self-control, reasoning, and memory are impaired	Concentration, short-term memory loss, speed control, reduced information processing capability (e.g., signal detection, visual search), impaired perception
.10	Clear deterioration of reaction time and control, slurred speech, poor coordination, and slowed thinking	Reduced ability to maintain lane position and brake appropriately
.15	Far less muscle control than normal, vomiting may occur (unless this level is reached slowly or a person has developed a tolerance for alcohol), major loss of balance	Substantial impairment in vehicle control, attention to driving task, and in necessary visual and auditory information processing

## First Time Consumption of Four Loko

Classroom surveys at public universities in FL, MT, and VA

Undergraduate lifetime drinkers (n - 1,036)

46% had consumed Four Loko (n = 474)

40% age 21 or older, but 93% first drank Four Loko when under 21

#### 58% consumed at least 1 entire can

• 10% drank 2 or more cans their first time drinking it

Among those who finished 1 or more cans:

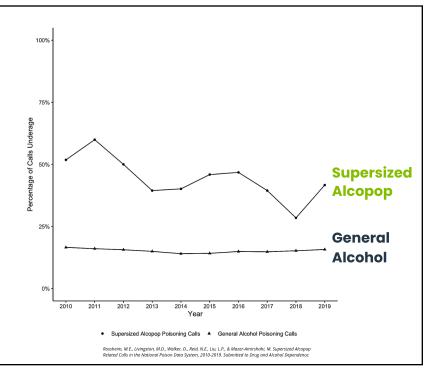
- 34% blacked out
- 18% vomited
- Students in FL and VA were more likely to black out (AOR = 1.9) and/or vomit (AOR = 2.0) than students in MT

Rossheim, M.E., Greene, K.M., Yurasek, A.M., Barry, A.E., Gonzalez-Pons, K.M., Trangenstein, P.J., Cavazos, T., Nelson, C., Treffers, R.D., Thombs, D.L., & Jernigan, D.H. (in press). Underage drinkers' first experience consuming a popular brand of supersized akopop. American Journal of Drug and Alcohol Abuse. doi: 10.1080/00952990.2019.1653316



## Percent of calls to poison control for consumers under the legal drinking age

(under 21 years old)



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#### **Sexual Assault**

#### Four Loko vs. Bud Light

Compared to victims of sexual assault who had consumed Bud Light, victims who consumed Four Loko had 9.3 times the odds of being a minor, adjusting for whether they were given the alcohol by the perpetrator.

#### May reflect brand preference, however...

95% of sexual assault victims who were minors **were provided the alcohol by the perpetrator** of assault, compared to one-third of victims 18 years or older.

Rossheim, M.E., Gonzolez-Pons, K.M., Tillett, K.K., Treffers, R.D., Trangenstein, P.J., Lerch J., Taxman, F.S., Greene, K.M., LoParco, C.R., & Jernigan, D.H. (2023). Alcopops Disproportionately Consumed by Minors in Sexual Assault Cases. Health Behavior Research. Vol. 6: No. 4. https://doi.org/10.1448/2572-1386.1213

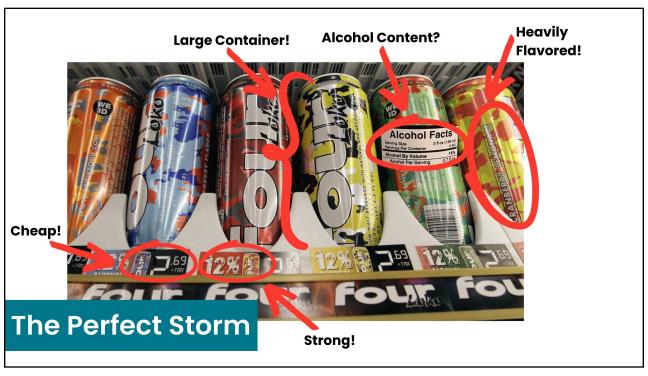




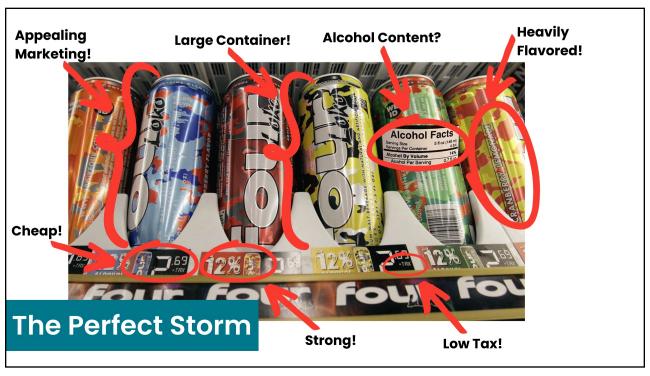


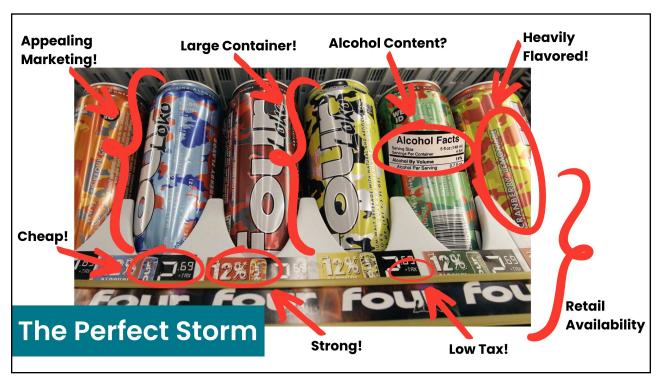














## Nationally: Alcohol Laws are Outdated

#### Sold in Grocery/Convenience Stores

#### Limited to Stores with Liquor Licenses



13.9%



15%



16.5%





4.5%

7%

29

## The 16 NCD Best Buy Interventions

#### **ALCOHOL**



- 6 Increase excise taxes on alcoholic beverages
- 7 Enact and enforce bans or comprehensive restrictions on exposure to alcohol advertising (across multiple types of media)
- 8 Enact and enforce restrictions on the physical availability of alcohol in sales outlets (via reduced hours of sale)

ource: Saving lives, spending less: the case for investing in noncommunicable diseases. Geneva: World Health Organization; 2021. License: CC BY-NC-SA 3.0 IGO

# How can you use this information?

Telling the local story



**Eroding protections** 



Protect people using what we've learned



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