

10 Years of Findings from Washington's Young Adult Health Survey

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Before we get started...

- Special thank you to:
- Sandy Salivaras
- Sarah Mariani

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Washington Young Adult Health Survey (YAHS)

- Funded by Division of Behavioral Health & Recovery (DBHR):
- Sarah Mariani
- Sandy Salivaras

- Young Adult Health Survey Team:
- Jason Kilmer
- Mary Larimer
- Rose Lyles-Riebli
- George Song
- Isaac Rhew

Washington State Health Care Authority (Division of Behavioral Health and Recovery) (PI: Kilmer).

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Young Adult Health Survey Recruitment... A Reminder of the Main Steps

- Participants recruited using a combination of direct mail advertising to a random sample from DOL, as well as online advertising (Facebook, Craigslist, Instagram, study web site, etc.)
- Assessed demographics on ongoing basis and modified strategies to recruit under-represented groups
- Convenience sample, not a random sample

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Post-stratification weighting and analyses

- To improve generalizability, used post-stratification weights based on sex, race, and geographic region
- Weighted results are consistently very similar to non-weighted

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Young Adult Health Survey

- Each year we collect data from a new cohort of 18-25 year olds

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Sample sizes over time

• Cohort 1 (2014):	2,101
• Cohort 2 (2015):	1,675
• Cohort 3 (2016):	2,493
• Cohort 4 (2017):	2,342
• Cohort 5 (2018):	2,412
• Cohort 6 (2019):	1,942
• Cohort 7 (2020):	1,643
• Cohort 8 (2021):	1,756
• Cohort 9 (2022):	1,110
• Cohort 10 (2023):	<u>1,237</u>
• TOTAL:	18,711

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Young Adult Health Survey

- Each year we have followed up with previous cohorts (participants in Cohort 1, 18-25 in 2014, are largely 28-35 now)
- In Year 10, we paused on cohorts 2, 3, 4, and 5 (but got follow-up data from cohorts 1, 6, 7, 8, and 9)

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What do we see with ten years of data?

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Any past year "recreational"/non-medical/personal use:
Cohorts 4-8 higher than Cohort 1

	Cohort 1 (2014)	Cohort 2 (2015)	Cohort 3 (2016)	Cohort 4 (2017)	Cohort 5 (2018)	Cohort 6 (2019)	Cohort 7 (2020)	Cohort 8 (2021)	Cohort 9 (2022)	Cohort 10 (2023)	Total across 10 years
18-20	43.27%	44.82%	40.94%	43.41%	44.42%	43.68%	40.39%	44.89%	39.11%	36.57%	42.52%
21-25	43.67%	47.09%	46.55%	49.75%	50.87%	49.61%	52.29%	55.21%	53.60%	51.90%	49.57%
TOTAL	43.51%	46.29%	44.76%	47.43%	48.49%	47.24%	47.94%	51.19%	47.26%	46.24%	46.95%

Cohort 1 vs. Cohorts 2-10:
Compared to Cohort 1, significantly higher prevalence for

- Cohort 4 (t=2.29, p<.05; odds ratio = 1.171; Cohort 4 has 17% higher odds of non-medical cannabis use than Cohort 1)
- Cohort 5 (t=2.96, p<.01; odds ratio = 1.222; Cohort 5 has 22% higher odds of non-medical cannabis use than Cohort 1)
- Cohort 6 (t=2.11, p<.05; odds ratio = 1.163; Cohort 6 has 16% higher odds of non-medical cannabis use than Cohort 1)
- Cohort 7 (t=2.41, p<.05; odds ratio = 1.196; Cohort 7 has 20% higher odds of non-medical cannabis use than Cohort 1)
- Cohort 8 (t=4.19, p<.001; odds ratio = 1.362; Cohort 8 has 36% higher odds of non-medical cannabis use than Cohort 1)

Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

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Any past year "recreational"/non-medical/personal use:
Significant increasing linear trend for 18-25 year olds

	Cohort 1 (2014)	Cohort 2 (2015)	Cohort 3 (2016)	Cohort 4 (2017)	Cohort 5 (2018)	Cohort 6 (2019)	Cohort 7 (2020)	Cohort 8 (2021)	Cohort 9 (2022)	Cohort 10 (2023)	Total across 10 years
18-20	43.27%	44.82%	40.94%	43.41%	44.42%	43.68%	40.39%	44.89%	39.11%	36.57%	42.52%
21-25	43.67%	47.09%	46.55%	49.75%	50.87%	49.61%	52.29%	55.21%	53.60%	51.90%	49.57%
TOTAL	43.51%	46.29%	44.76%	47.43%	48.49%	47.24%	47.94%	51.19%	47.26%	46.24%	46.95%

Linear trend from Cohort 1 to Cohort 10:
Significant (t=3.14, p<.01)
odds ratio = 1.0198; odds of non-medical cannabis use are 2.0% higher with each successive year/cohort

Age by cohort interaction:

- Significant (t=4.51, p<.001)

Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

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Any past year "recreational"/non-medical/personal use:
Significant increasing trend for 21-25 year olds

	Cohort 1 (2014)	Cohort 2 (2015)	Cohort 3 (2016)	Cohort 4 (2017)	Cohort 5 (2018)	Cohort 6 (2019)	Cohort 7 (2020)	Cohort 8 (2021)	Cohort 9 (2022)	Cohort 10 (2023)	Total across 10 years
18-20	43.27%	44.82%	40.94%	43.41%	44.42%	43.68%	40.39%	44.89%	39.11%	36.57%	42.52%
21-25	43.67%	47.09%	46.55%	49.75%	50.87%	49.61%	52.29%	55.21%	53.60%	51.90%	49.57%
TOTAL	43.51%	46.29%	44.76%	47.43%	48.49%	47.24%	47.94%	51.19%	47.26%	46.24%	46.95%

Model split by over/under 21

18-20:

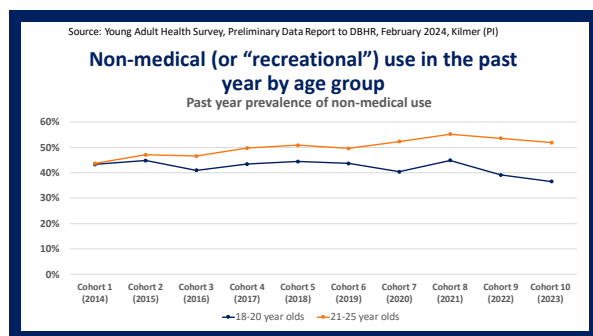
- No significant linear trend

21-25:

- Significant increasing trend over time (t=5.56, p<.001, odds ratio = 1.0452)
- Odds of non-medical cannabis use are 4.5% higher with each successive year/cohort

Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

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At least monthly "recreational"/non-medical/personal use:
Cohorts 5-9 higher than cohort 1

	Cohort 1 (2014)	Cohort 2 (2015)	Cohort 3 (2016)	Cohort 4 (2017)	Cohort 5 (2018)	Cohort 6 (2019)	Cohort 7 (2020)	Cohort 8 (2021)	Cohort 9 (2022)	Cohort 10 (2023)	Total across 10 years
18-20	24.08%	24.88%	21.19%	23.56%	27.06%	23.24%	23.17%	24.16%	26.21%	20.15%	23.85%
21-25	23.63%	23.56%	25.12%	28.07%	27.88%	29.55%	33.81%	33.86%	31.65%	30.87%	28.27%
TOTAL	23.81%	24.03%	23.84%	26.46%	27.62%	27.09%	29.90%	30.11%	29.19%	26.87%	26.64%

Regression models:
Cohort 1 vs. Cohorts 2-10
Compared to Cohort 1, significantly higher prevalence for

- Cohort 5 ($t=2.56$, $p<.01$; odds ratio = 1.221, Cohort 5 has 22% higher odds of non-medical cannabis use than Cohort 1)
- Cohort 6 ($t=2.08$, $p<.05$; odds ratio = 1.189, Cohort 6 has 19% higher odds of non-medical cannabis use than Cohort 1)
- Cohort 7 ($t=3.73$, $p<.001$; odds ratio = 1.365, Cohort 7 has 37% higher odds of non-medical cannabis use than Cohort 1)
- Cohort 8 ($t=3.88$, $p<.001$; odds ratio = 1.379, Cohort 8 has 38% higher odds of non-medical cannabis use than Cohort 1)
- Cohort 9 ($t=2.99$, $p<.01$; odds ratio = 1.320, Cohort 9 has 32% higher odds of non-medical cannabis use than Cohort 1)

Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

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At least monthly "recreational"/non-medical/personal use:
Significant increasing trend for 18-25 year olds

	Cohort 1 (2014)	Cohort 2 (2015)	Cohort 3 (2016)	Cohort 4 (2017)	Cohort 5 (2018)	Cohort 6 (2019)	Cohort 7 (2020)	Cohort 8 (2021)	Cohort 9 (2022)	Cohort 10 (2023)	Total across 10 years
18-20	24.08%	24.88%	21.19%	23.56%	27.06%	23.24%	23.17%	24.16%	26.21%	20.15%	23.85%
21-25	23.63%	23.56%	25.12%	28.07%	27.88%	29.55%	33.81%	33.86%	31.65%	30.87%	28.27%
TOTAL	23.81%	24.03%	23.84%	26.46%	27.62%	27.09%	29.90%	30.11%	29.19%	26.87%	26.64%

Linear trend from Cohort 1 to Cohort 10:
Significant increasing trend over time ($t=5.10$, $p<.001$; Odds ratio = 1.036)

Age by cohort interaction:
Significant ($p<.001$)

Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

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At least monthly "recreational"/non-medical/personal use:
Significant increasing trend for 21-25 year olds

	Cohort 1 (2014)	Cohort 2 (2015)	Cohort 3 (2016)	Cohort 4 (2017)	Cohort 5 (2018)	Cohort 6 (2019)	Cohort 7 (2020)	Cohort 8 (2021)	Cohort 9 (2022)	Cohort 10 (2023)	Total across 10 years
18-20	24.08%	24.88%	21.19%	23.56%	27.06%	23.24%	23.17%	24.16%	26.21%	20.15%	23.85%
21-25	23.63%	23.56%	25.12%	28.07%	27.88%	29.55%	33.81%	33.86%	31.65%	30.87%	28.27%
TOTAL	23.81%	24.03%	23.84%	26.46%	27.62%	27.09%	29.90%	30.11%	29.19%	26.87%	26.64%

Model split by over/under 21

18-20:

- No significant linear trend

21-25:

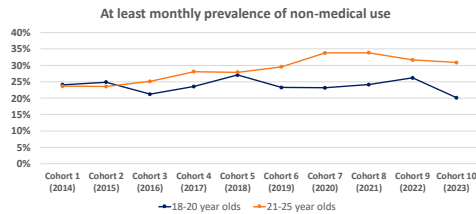
- Significant increasing trend over time ($t=6.74$, $p<.001$)
- Odds ratio = 1.061 (odds of non-medical cannabis use are 6.1% higher with each successive year/cohort)

Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

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Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

At least monthly non-medical (or "recreational")
use by age group



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At least weekly "recreational"/non-medical/personal use:
Cohorts 7, 8, and 10 higher than Cohort 1

	Cohort 1 (2014)	Cohort 2 (2015)	Cohort 3 (2016)	Cohort 4 (2017)	Cohort 5 (2018)	Cohort 6 (2019)	Cohort 7 (2020)	Cohort 8 (2021)	Cohort 9 (2022)	Cohort 10 (2023)	Total across 10 years
18-20	16.51%	13.43%	13.30%	15.40%	18.56%	14.41%	15.21%	16.86%	16.40%	14.42%	15.55%
21-25	16.86%	16.21%	18.55%	18.42%	19.22%	21.39%	24.07%	24.59%	21.93%	24.89%	20.13%
TOTAL	16.72%	15.23%	16.85%	17.37%	19.03%	18.59%	20.84%	21.62%	19.47%	20.84%	18.43%

Regression models:

Cohort 1 vs. Cohorts 2-10:

Cohort 7 is significantly higher than Cohort 1 ($t=2.86$, $p<.01$, Odds ratio = 1.311)

Cohort 8 is significantly higher than Cohort 1 ($t=3.37$, $p<.001$, Odds ratio = 1.374)

Cohort 10 is significantly higher than Cohort 1 ($t=2.61$, $p<.01$, Odds ratio = 1.311)

Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

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	Cohort 1 (2014)	Cohort 2 (2015)	Cohort 3 (2016)	Cohort 4 (2017)	Cohort 5 (2018)	Cohort 6 (2019)	Cohort 7 (2020)	Cohort 8 (2021)	Cohort 9 (2022)	Cohort 10 (2023)	Total across 10 years
18-20	16.51%	13.43%	13.30%	15.40%	18.56%	14.41%	15.21%	16.86%	16.40%	14.42%	15.55%
21-25	16.86%	16.21%	18.55%	18.42%	19.22%	21.39%	24.07%	24.59%	21.93%	24.89%	20.13%
TOTAL	16.72%	15.23%	16.85%	17.37%	19.03%	18.59%	20.84%	21.62%	19.47%	20.84%	18.43%

Linear trend
 Significant (t=5.19, p<.001); Odds ratio = 1.043

Age by cohort interaction:
 Significant (t=2.93, p<.01)

Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

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	Cohort 1 (2014)	Cohort 2 (2015)	Cohort 3 (2016)	Cohort 4 (2017)	Cohort 5 (2018)	Cohort 6 (2019)	Cohort 7 (2020)	Cohort 8 (2021)	Cohort 9 (2022)	Cohort 10 (2023)	Total across 10 years
18-20	16.51%	13.43%	13.30%	15.40%	18.56%	14.41%	15.21%	16.86%	16.40%	14.42%	15.55%
21-25	16.86%	16.21%	18.55%	18.42%	19.22%	21.39%	24.07%	24.59%	21.93%	24.89%	20.13%
TOTAL	16.72%	15.23%	16.85%	17.37%	19.03%	18.59%	20.84%	21.62%	19.47%	20.84%	18.43%

Model split by over/under 21

18-20:

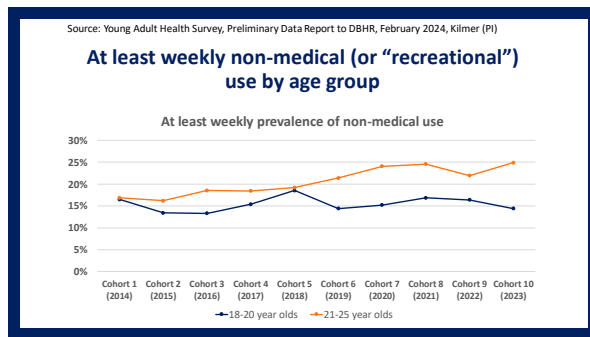
- No significant linear trend

21-25:

- Significant increasing trend over time (t=6.27, p<.001; odds ratio = 1.065, odds of non-medical cannabis use are 6.5% higher with each successive year/cohort)

Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

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Non-medical use, categories of frequency, whole sample

	Cohort 1 2014	Cohort 2 2015	Cohort 3 2016	Cohort 4 2017	Cohort 5 2018	Cohort 6 2019	Cohort 7 2020	Cohort 8 2021	Cohort 9 2022	Cohort 10 2023
Never	56.49%	53.71%	55.24%	52.57%	51.51%	52.76%	52.06%	48.81%	52.74%	53.76%
Once a year	7.53%	8.28%	8.00%	6.36%	6.87%	6.41%	5.86%	7.13%	5.70%	5.75%
2-3x/year	8.58%	9.60%	9.72%	10.21%	10.52%	9.77%	8.76%	9.79%	9.23%	9.38%
Every other month	3.59%	4.38%	3.20%	4.40%	3.68%	3.97%	3.42%	4.15%	3.13%	4.25%
Once a month	3.15%	3.55%	3.06%	3.58%	3.24%	3.72%	4.29%	3.67%	2.87%	2.33%
2-3x/month	3.94%	5.24%	3.94%	5.51%	5.35%	4.77%	4.77%	4.82%	6.86%	3.70%
1x/week	2.49%	2.75%	2.90%	2.38%	2.61%	2.92%	3.36%	3.23%	3.12%	3.43%
More than 1x/wk	5.26%	4.39%	4.63%	4.29%	4.81%	4.63%	5.25%	6.36%	5.16%	4.37%
Every other day	2.63%	3.44%	2.35%	3.55%	3.60%	2.85%	3.93%	4.29%	3.06%	2.64%
Every day	6.34%	4.65%	6.97%	7.14%	8.01%	8.19%	8.30%	7.74%	8.14%	10.39%

Cohort 4-10 all significantly higher odds of more frequent cannabis use than Cohort 1.

Note: ** Daily use is higher in Cohort 10 than at any time **

Linear trend from Cohort 1 to Cohort 10:

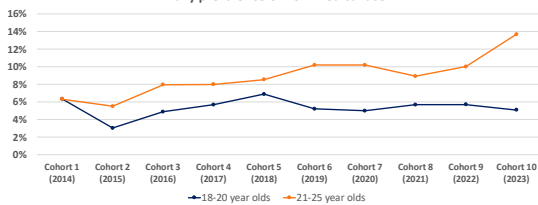
Significant increasing trend over time (t=4.70, p<.001, Odds ratio = 1.028)

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Source: Young Adult Health Survey, Preliminary Data Report to DBHR, February 2024, Kilmer (PI)

Daily non-medical (or "recreational") use by age group

Daily prevalence of non-medical use



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Perceived norms of non-medical cannabis use
PERCEPTIONS OF NON-MEDICAL CANNABIS

	Cohort 1 2014	Cohort 2 2015	Cohort 3 2016	Cohort 4 2017	Cohort 5 2018	Cohort 6 2019	Cohort 7 2020	Cohort 8 2021	Cohort 9 2022	Cohort 10 2023
Never	2.41%	2.42%	1.61%	2.31%	2.06%	1.50%	2.38%	1.92%	3.05%	2.44%
Once a year	1.82%	2.10%	1.74%	1.92%	1.27%	0.75%	1.32%	1.15%	1.37%	1.01%
2 to 3 times a year	8.22%	10.12%	6.73%	6.40%	3.89%	3.31%	2.23%	3.87%	3.95%	4.53%
Every other month	6.98%	7.29%	5.32%	4.59%	3.14%	3.90%	4.42%	3.48%	2.93%	3.37%
Once a month	9.74%	11.15%	10.41%	9.07%	6.88%	5.51%	6.39%	7.07%	6.63%	6.66%
2-3x/month	17.98%	19.68%	19.83%	18.91%	13.47%	13.93%	14.32%	14.04%	14.38%	12.69%
Once per week	12.65%	12.72%	15.43%	13.89%	14.28%	12.91%	12.64%	14.11%	13.24%	11.51%
More than 1x/wk	22.08%	20.70%	21.42%	23.94%	27.12%	25.90%	28.57%	29.17%	25.76%	26.73%
Every other day	9.27%	6.87%	8.56%	8.65%	11.10%	12.25%	13.10%	10.45%	13.14%	12.03%
Every day	8.84%	6.95%	8.96%	10.31%	16.79%	20.03%	14.62%	14.75%	15.57%	19.02%

** In ordinal logistic models, Cohort 4 (t=2.57, p<.01), Cohort 5 (t=10.67, p<.001), Cohort 6 (t=12.36, p<.001), Cohort 7 (t=9.72, p<.001), Cohort 8 (t=9.02, p<.001), Cohort 9 (t=8.10, p<.001), and Cohort 10 (t=9.55, p<.001) have higher perceived non-medical cannabis norms compared to cohort 1; but cohort 2 has lower norms compared to cohort 1 (t= -3.35 p<.001) **

** Overall, a significant increasing linear trend over time (t=18.72, p<.001) **

In Cohort 10, 20.84% use at least weekly (meaning most don't), yet 69.29% think the typical person their age uses weekly

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Decreasing trend significant
Increasing trend significant

WHERE DO PEOPLE GET CANNABIS, 18-20 year olds

	Cohort 1 2014	Cohort 2 2015	Cohort 3 2016	Cohort 4 2017	Cohort 5 2018	Cohort 6 2019	Cohort 7 2020	Cohort 8 2021	Cohort 9 2022	Cohort 10 2023
From friends	72.86%	76.24%	69.68%	77.40%	63.75%	60.74%	66.87%	65.62%	59.68%	58.06%
Gave money to someone	23.29%	26.47%	34.72%	41.45%	39.29%	43.17%	40.55%	39.80%	37.62%	33.36%
Got it from someone w/ medical card	17.60%	14.12%	4.30%	5.24%	2.79%	2.82%	4.27%	4.58%	4.10%	1.62%
Got it from a medical dispensary	13.65%	18.99%	5.58%	4.72%	6.50%	8.28%	8.41%	12.03%	3.40%	7.53%
Got it at a party	22.99%	22.14%	23.08%	24.92%	20.12%	22.91%	8.82%	24.67%	16.43%	10.98%
Got it from family	5.65%	5.18%	11.75%	9.75%	11.24%	10.92%	13.49%	7.09%	11.36%	9.67%
Got it some other way	11.64%	4.12%	6.12%	9.02%	7.30%	6.21%	5.04%	6.24%	3.62%	4.28%
Bought from retail store	0.99%	4.58%	1.73%	1.92%	2.03%	3.55%	1.58%	1.03%	3.08%	1.53%
Got it from parents w/ permission	5.75%	6.02%	12.33%	10.44%	11.69%	12.91%	13.08%	13.91%	12.38%	15.77%
Grew it themselves	1.91%	1.15%	1.65%	0.23%	1.47%	2.78%	1.64%	0.42%	0.59%	0.56%
Stole it from store/dispensary	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.16%	2.40%	0.00%	0.57%

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Decreasing trend significant
Increasing trend significant

WHERE DO PEOPLE GET CANNABIS, 21-25 year olds

	Cohort 1 2014	Cohort 2 2015	Cohort 3 2016	Cohort 4 2017	Cohort 5 2018	Cohort 6 2019	Cohort 7 2020	Cohort 8 2021	Cohort 9 2022	Cohort 10 2023
From friends	67.50%	54.89%	42.78%	36.51%	33.80%	25.72%	20.26%	26.44%	26.04%	21.17%
Gave money to someone	19.87%	10.72%	8.10%	5.64%	4.97%	3.63%	5.08%	4.61%	7.75%	4.46%
Got it from someone w/ medical card	18.85%	9.41%	2.53%	2.02%	0.17%	0.65%	0.27%	0.62%	1.16%	1.03%
Got it from a med. dispensary	20.65%	13.03%	12.60%	9.96%	10.15%	14.23%	14.71%	15.62%	16.02%	16.90%
Got it at a party	11.81%	10.76%	10.93%	8.06%	6.54%	5.76%	1.57%	7.12%	10.93%	3.87%
Got it from family	11.48%	8.26%	4.08%	7.04%	5.76%	4.37%	4.02%	5.52%	4.56%	4.04%
Got it some other way	5.13%	6.68%	3.79%	3.41%	3.71%	3.71%	1.24%	2.13%	1.85%	1.97%
Bought from retail store	8.80%	51.86%	72.60%	76.31%	80.06%	78.03%	77.27%	74.42%	70.93%	72.28%
Got it from parents w/ permission	4.56%	3.50%	2.02%	4.28%	4.47%	3.15%	2.75%	4.75%	4.41%	5.79%
Grew it themselves	1.51%	3.01%	1.49%	1.82%	1.81%	0.71%	1.11%	1.74%	0.79%	1.16%
Stole it from store/ dispensary	2.84%	0.17%	0.60%	0.29%	0.17%	0.11%	0.97%	0.43%	0.69%	0.78%

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DRIVING AFTER CANNABIS USE

Driving after cannabis use

"During the past 30 days, how many times did you drive a car or other vehicle within three hours after using cannabis (e.g., marijuana, hashish, edibles)?"

	Cohort 1 2014	Cohort 2 2015	Cohort 3 2016	Cohort 4 2017	Cohort 5 2018	Cohort 6 2019	Cohort 7 2020	Cohort 8 2021	Cohort 9 2022	Cohort 10 2023
Never	50.59%	55.29%	58.19%	58.56%	58.73%	61.80%	65.00%	66.38%	64.64%	68.69%
1 time	14.13%	13.13%	12.50%	12.85%	12.11%	8.32%	9.56%	10.25%	10.27%	7.70%
2-3 times	13.28%	12.34%	11.97%	11.98%	10.59%	11.66%	11.24%	10.51%	11.50%	9.83%
4-5 times	6.43%	6.35%	3.48%	4.48%	6.04%	4.00%	4.51%	4.39%	2.53%	3.40%
6 or more times	15.57%	14.88%	13.85%	12.12%	12.52%	14.21%	9.69%	8.47%	11.05%	10.38%

***There are declines in driving after cannabis use between cohorts 3-10 and cohort 1 (cohort 3, $p < .05$; cohort 4, $p < .01$; cohort 5, $p < .05$; cohort 6, $p < .01$; cohort 7, $p < .001$; cohort 8, $p < .001$; cohort 9, $p < .001$; cohort 10, $p < .001$), as well as a significant linear trend ($p < .001$). **

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Medical cannabis

- Cohort 9 past year medical cannabis use (11.96%) is significantly lower than Cohort 1 (14.74%)
- Same difference on overall frequency such that Cohort 9 is different than Cohort 1
- Perceptions of medical use increasing significantly (both a linear trend, and past 7 cohorts higher than cohort 1)

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Other substances

- Significant decreasing trend in:
 - Alcohol, at least once in past year
 - Alcohol, at least monthly
 - Cigarettes, at least once in the past year
 - Pain relievers to get high, at least once in the past year
 - Heroin use, at least once in the past year

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Perceived risk

- **Cannabis**
 - Physical risk of occasional cannabis use
 - Psychological/emotional risk of occasional cannabis use
 - Physical risk of regular cannabis use
 - Psychological/emotional risk of regular cannabis use
- **Alcohol**
 - Physical risk of 2 drinks every day
 - Psychological risk of 2 drinks every day
 - Physical risk of 5+ drinks every weekend
 - Psychological risk of 5+ drinks every weekend

Source: Young Adult Health Survey,
Preliminary Data Report to DBHR, Kilmer (PI)

** significant decreasing linear trend **
** significant increasing linear trend **

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Some frequency data of note

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At least yearly use of various substances

Substance	18-20	21-25
Alcohol	57.39%	86.81%
E-cigarettes/nicotine vaping	24.61%	27.67%
Cigarettes	10.65%	17.23%
Cannabis for medical purposes	9.11%	14.21%
Cannabis for non-medical purposes	36.57%	51.90%
"Synthetic marijuana" (K2, spice, etc.)	2.32%	2.99%
Heroin	0%	0.50%
Pain relievers to get high	2.09%	2.73%
Methamphetamines	2.24%	1.49%

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At least yearly use of various substances

Substance	18-20	21-25
Cocaine	2.05%	5.88%
Kratom	1.65%	2.31%
Hallucinogens (LSD, psilocybin, mushrooms, DMT, etc.) at full dose	7.44%	11.67%
Hallucinogens (LSD, psilocybin, mushrooms, DMT, etc.) as microdose	7.15%	11.31%
Fentanyl	0.89%	0.73%

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Typical potency (among those with past 30 day use)

Typical potency in preferred method of use	18-20	21-25
1-10% THC	5.05%	8.97%
11-20% THC	6.82%	5.12%
21-30% THC	7.49%	19.35%
31-40% THC	5.67%	5.40%
41-50% THC	2.13%	2.59%
51-60% THC	0.86%	0.45%
61-70% THC	1.49%	3.17%
71-80% THC	13.36%	6.43%
81-90%+ THC	16.33%	14.02%
Don't know	40.80%	34.51%

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At least yearly use of various substances

Substance	18-20	21-25
CBD applied topically	15.15%	19.20%
CBD used any other way	13.50%	23.08%
Delta 8 THC	11.31%	9.12%
Delta 10 THC	8.40%	6.19%

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Over the last two weeks, how often have you been bothered by any of the following problems

1. Feeling nervous, anxious or on edge
- | | | |
|---|---------------------------|---------------------------|
| | 18-20-year-olds (n = 469) | 21-25-year-olds (n = 764) |
| <input type="checkbox"/> Not at all: | 28.10% | 21.67% |
| <input type="checkbox"/> Several days: | 41.09% | 40.04% |
| <input type="checkbox"/> More than half the days: | 18.15% | 21.71% |
| <input type="checkbox"/> Nearly every day: | 12.66% | 16.58% |
2. Not being able to stop or control worrying
- | | | |
|---|---------------------------|---------------------------|
| | 18-20-year-olds (n = 469) | 21-25-year-olds (n = 764) |
| <input type="checkbox"/> Not at all: | 45.35% | 35.69% |
| <input type="checkbox"/> Several days: | 29.41% | 37.37% |
| <input type="checkbox"/> More than half the days: | 16.50% | 14.15% |
| <input type="checkbox"/> Nearly every day: | 8.74% | 12.78% |

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Over the last two weeks, how often have you been bothered by any of the following problems

3. Little interest or pleasure in doing things

	<u>18–20-year-olds (n = 469)</u>	<u>21–25-year-olds (n = 764)</u>
<input type="checkbox"/> Not at all:	40.26%	38.47%
<input type="checkbox"/> Several days:	37.75%	36.48%
<input type="checkbox"/> More than half the days:	14.87%	15.64%
<input type="checkbox"/> Nearly every day:	7.12%	9.41%

4. Feeling down, depressed, or hopeless

	<u>18–20-year-olds (n = 468)</u>	<u>21–25-year-olds (n = 764)</u>
<input type="checkbox"/> Not at all:	46.27%	41.17%
<input type="checkbox"/> Several days:	34.32%	37.40%
<input type="checkbox"/> More than half the days:	13.06%	12.40%
<input type="checkbox"/> Nearly every day:	6.35%	9.03%

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Young Adult Health Survey

- 2024 will see our 11th year of data collection
- We had paused on longitudinal follow-up of Cohorts 2-5, and, with a partnership between DOH and DBHR, will collect data from all previous 10 cohorts and a new cohort 11

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Young Adult Health Survey

- Dr. Katarina Guttmannova applied for and obtained a secondary data analysis grant (NIDA grant R01DA047996, PI: Guttmannova) that has led to several publications using YAHS (beyond what we pass on as part of the contract).

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Young Adult Health Survey

- Dr. Guttmanova also received a second secondary data analysis grant (NIDA R01DA057705) focusing on changes before and during the COVID-19 pandemic among young adults
- Findings from this project will inform tailoring and development of prevention and intervention efforts aimed at reducing health risk behaviors and improving public health

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Symptoms of anxiety disorder

January 2019 – March 2019: 8.3%

April 2019 – June 2019: 8.1%

May 14-19, 2020: 28.2%

Symptoms of depressive disorder

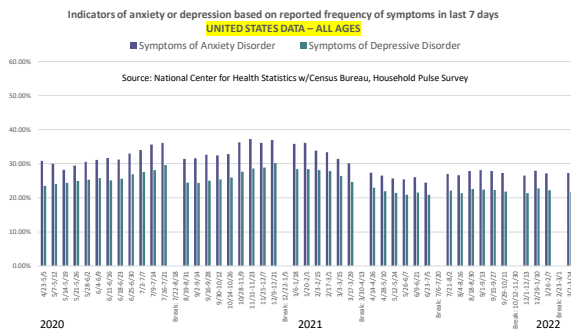
January 2019 – March 2019: 6.7%

April 2019 – June 2019: 6.5%

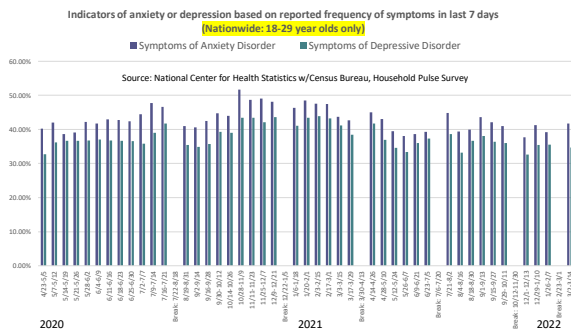
May 14-19, 2020: 24.4%

Source: National Center for Health Statistics w/Census Bureau, Household Pulse Survey

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44) During the **past 30 days**, what type of alcohol did you **usually** drink?

	<u>18-20 (n=167)</u>	<u>21-25 (n=530)</u>
<input type="checkbox"/> I did not have a usual type	7.60%	4.97%
<input type="checkbox"/> Beer	18.93%	24.35%
<input type="checkbox"/> Flavored malt beverages, such as Smirnoff Ice, Bacardi Silver, or Hard Lemonade	6.46%	7.68%
<input type="checkbox"/> Wine coolers, such as Bartles & Jaymes or Seagrams	0.28%	1.27%
<input type="checkbox"/> Wine	6.13%	14.27%
<input type="checkbox"/> Liquor, such as vodka, rum, scotch, bourbon, or whiskey	39.77%	25.36%
<input type="checkbox"/> Some other type (please specify) _____	2.88%	4.70%
<input type="checkbox"/> Hard cider	6.76%	9.66%
<input type="checkbox"/> Hard seltzer	11.19%	7.74%

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Thank you!

- DBHR:
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 - Sandy Salivaras

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