

# Impacts of Marijuana Legalization in Colorado

*A Report Pursuant to C.R.S. 24-33.4-516*

July 2021



Colorado Department of Public Safety  
Division of Criminal Justice  
Office of Research and Statistics

700 Kipling St., Denver, Colorado 80215  
<https://ors.colorado.gov/>



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Division of Criminal Justice  
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### Prepared by

**Jack K. Reed, Statistical Analyst**  
Office of Research and Statistics

Stan Hilkey, Executive Director, Department of Public Safety  
Joe Thome, Director, Division of Criminal Justice  
Kim English, Research Director, Office of Research and Statistics



**COLORADO**  
Division of Criminal Justice  
Department of Public Safety



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## EXECUTIVE SUMMARY

In 2013, following the passage of Amendment 64 which allows for the retail sale and possession of marijuana, the Colorado General Assembly enacted Senate Bill 13-283. This bill mandated that the Division of Criminal Justice in the Department of Public Safety conduct a study of the impacts of Amendment 64, particularly as these relate to law enforcement activities. This report seeks to establish and present the baseline measures for the metrics specified in S.B. 13-283 (C.R.S. 24-33.4-516).

The information presented here should be interpreted with caution. The majority of the data sources vary considerably in terms of what exists historically and the reliability of some sources has improved over time. Consequently, it is difficult to draw conclusions about the potential effects of marijuana legalization and commercialization on public safety, public health, or youth outcomes, and this may always be the case due to the lack of historical data. Furthermore, the measurement of available data elements can be affected by very context of marijuana legalization. For example, the decreasing social stigma regarding marijuana use could lead individuals to be more likely to report use on surveys and also to health workers in emergency departments and poison control centers, making marijuana use appear to increase when perhaps it has not. Additionally, law enforcement officials and prosecuting attorneys continue to struggle with enforcement of the complex and sometimes conflicting marijuana laws that remain. Finally, the lack of comparable Federal data across many metrics makes it difficult to compare changes in Colorado to other jurisdictions which may have not legalized marijuana. In sum, then, the lack of pre-commercialization data, the decreasing social stigma, and challenges to law enforcement combine to make it difficult to translate these preliminary findings into definitive statements of outcomes.

Recognizing the challenges involved in interpreting the data presented here, the following is a summary of findings:

### **Public Safety**

#### ***Arrests***

- The total number of marijuana arrests decreased by 68% between 2012 and 2019, from 13,225 to 4,290. Marijuana possession arrests, which make up the majority of all marijuana arrests, were cut in half (-71%). Marijuana sales arrests decreased by 56%. Arrests for marijuana production increased slightly (+3%). Marijuana arrests that were unspecified, meaning the specific reason for the arrest was not noted by law enforcement, went down by 45%.
  - The number of marijuana arrests decreased by 72% for Whites, 55% for Hispanics, and 63% for Blacks. The marijuana arrest rate for Blacks (160 per 100,000) was more than double that of Whites (76 per 100,000) in 2019. This disparity has not changed in any meaningful way since legalization.



- Nine large Colorado counties (Adams, Arapahoe, Boulder, Douglas, El Paso, Jefferson, Larimer, Mesa, and Weld) showed a decrease in marijuana arrests, ranging between -8% (Boulder) and -67% (Adams). The average decline across these nine counties was -46%.

### ***Court filings***

- The number of marijuana-related court filings declined 55% between 2012 and 2019, from 9,925 to 4,489.
  - Filings fell by 1% for juveniles 10 to 17 years old, by 28% for young adults 18 to 20 years old, and by 67% for adults ages 21 or older.
  - The number of cases with a marijuana felony as the top marijuana charge declined initially (986 in 2012 to 418 in 2014) but has since rebounded to 806, down 18% from 2019.
  - This contrasts with the decline in misdemeanors (down 47%) and petty offenses (down 71%) between 2012 and 2019.
- In terms of organized crime, the number of court filings charged with the Colorado Organized Crime Control Act (C.R.S.18-17.104) that were linked to some marijuana charge increased from 31 in 2012 to 119 in 2017, but has since dropped back down to 34 in 2019.
  - The types of charge associated with COCCA filings that increased was manufacturing of marijuana or marijuana products (25 to 36) while all others have shown a decline in that time period.

### ***Traffic Safety***

- The increase in law enforcement officers who are trained in recognizing drug use, from 129 in 2012 to 221 in 2020, can increase drug detection rates apart from any changes in driver behavior.
- Traffic safety data were obtained from a number of different sources. Please note that traffic safety data may be incomplete because law enforcement officers may determine that alcohol is impairing the driver, and therefore additional (time consuming and costly) drug testing may not be pursued.
- The number of DUI summonses issued by the Colorado State Patrol in which marijuana-alone or marijuana-in-combination was recorded increased by 120% between 2014 (n=684) and 2020 (n=1,508). The prevalence of marijuana alone increased from 6.3% in 2014 to 8.7% in 2020. The percentage of marijuana polydrug (marijuana and alcohol or marijuana and other drugs) as the perceived impairing substance increased from 5.7% of all DUIs in 2014 to 22.7% in 2020.





- In 2018, the most recent data available, 26,255 cases were filed in court that included a charge of driving under the influence; 16,943 of these were matched with either a breath or blood test.<sup>1</sup>
  - Of these, 5,032 had blood samples screened for the presence of marijuana: 3,335 cases (66.3%) had a positive cannabinoid screen and a follow-up confirmation for other cannabis analytes, and 49.6% detected Delta-9 THC at 5.0 ng/mL or above.
- According to CDOT, the number of fatalities in which a driver tested positive for Delta-9 THC at or above the 5.0 ng/mL level increased from 52 (14% of all fatalities) in 2016 to 56 in 2019 (13% of all fatalities).
  - The number of fatalities with cannabinoid-only or cannabinoid-in-combination positive drivers increased 140%, from 55 in 2013 to 132 in 2019.
  - However, note that the detection of any cannabinoid in blood is not an indicator of impairment but only indicates presence in the system. Detection of Delta-9 THC, one of the primary psychoactive metabolites of marijuana, may be an indicator of impairment.
- A 2019 survey conducted by the Colorado Department of Public Health and Environment found that 3.5% of adults reported driving within two-to-three hours of using marijuana in the past-30 days, while 18.6% of recent marijuana users reported this behavior.

#### ***Probationers testing positive***

- The proportion of 18- to 25-year-old probationers testing positive for THC increased, from 32% in 2012 to 47% in 2019. The proportion of 36 and older probationers testing positive for THC also increased, from 14% in 2012 to 27% in 2019.

#### ***Illegal cultivation on public land***

- The number of plants seized on public lands has fluctuated significantly over time, from 46,662 plants in 2012, to a high of 80,826 in 2017, down to a low of 1,502 in 2018.

#### ***Diversion to other states***

- The Colorado Information Analysis Center (CIAC), located in the Department of Public Safety, compiled data from the El Paso Intelligence Center (EPIC), manages a database in which law enforcement agencies can voluntarily report drug seizures. The number of seizures for Colorado-sourced marijuana reported to EPIC increased from 286 in 2012 to 673 in 2017, but has since gone back down to 266 in 2019.
  - The types of marijuana products seized has changed over time, with marijuana concentrates accounting for 22% of seizures and edibles accounting for another 10% in

<sup>1</sup> Please see [http://cdpsdocs.state.co.us/ors/docs/reports/2018-DUI\\_HB17-1315.pdf](http://cdpsdocs.state.co.us/ors/docs/reports/2018-DUI_HB17-1315.pdf) for more information.

2019. In 2012, both of those categories combined accounted for 10% of marijuana seizures reported to EPIC.

## **Public Health**

### ***Adult usage rates***

- The Colorado Behavioral Risk Factor Surveillance System (BRFSS) is a statewide telephone survey conducted by the Colorado Department of Public Health and Environment (CDPHE). In 2014, the BRFSS was expanded to include questions about marijuana use.
  - In 2019, 19.0% of adults reported marijuana use in the past 30 days, compared to 13.4% in 2014, a significant increase.
    - Males have significantly higher past 30-day use (22.9%) than females (15.1%).
    - Adults 26-34 year reported the highest past 30-day usage rates (29.4%), followed by 18-25 year-olds (28.8%), 35-64 year-olds (17.3%), and those 65 years and older (9.3%).
    - The marijuana usage rates of those 65 and older has more than tripled since 2014.
    - Those reporting smoking marijuana flower decreased from 87.2% of users in 2016 to 76.1% in 2019. This compares to increases in eating/drinking (35.2% in 2016 to 43.0% in 2019, vaping (22.9% in 2016 to 32.0% in 2019), and dabbing (16.8% in 2016 to 19.6% in 2019)
- According to the National Survey on Drug Use and Health, administered by the federal Substance Abuse and Mental Health Services Administration, the prevalence rates for marijuana use in the past 30 days increased for young adults (18- to 25-years old), from 21.2% in 2005/06 (pre-commercialization) to 31.2% in 2013/14 (post-commercialization), but has stabilized at 34.4% in 2018/19. Reported 30-day marijuana use by adults ages 26 years and older increased from 5.4% in 2005/06 to 15.6% in 2018/19.

### ***Hospitalizations and emergency department visits***

- The Colorado Department of Public Health and Environment (CDPHE) analyzed data from the Colorado Hospital Administration (CHA) with these findings:
  - During the era of non-commercial medical marijuana the hospitalization rate of those with marijuana-related billing codes rose 17% (826.8 in 2003 to 963.5 in 2009). The era of medical marijuana commercialization (2010–2013) reflected a 100% jump, to 1,780.9 per 100,000 hospitalizations. The period from 2014 to 2016 reflects a transition from the ICD-9-CM to ICD-10-CM billings codes. While there is an increase during that period it should be interpreted with caution, as many more possible codes were included in



the new methodology. Since the complete transition to ICD-10 codes in 2016, there have been no significant changes in the hospitalization rates.

- There was a significant rate increase of marijuana-related emergency department visits during the era of medical commercialization, from 617.7 in 2011 to 1039.5 in 2014. In the period after the transition to ICD-10-CM there was an initial increase which reversed in 2019.

### ***Poison control***

- The number of calls to poison control mentioning human marijuana exposure increased over the past 10 years. There were 41 calls in 2006 and 276 in 2019. Between 2014 and 2017, the frequency of calls reporting human marijuana exposure stabilized but then increased again in 2018.

### ***Treatment Admissions***

- The overall rate of treatment admissions for those reporting marijuana as their primary substance of use has decreased from 222 admissions per 100,000 population in 2012 to 182 in 2019.
- Nearly three-quarters (73.5%) of youth (10 to 17 years-old) in treatment for substance use report marijuana as their primary substance of use.

## **Youth Impacts**

### ***Usage rates***

- Data on youth marijuana use was available from two sources. The Healthy Kids Colorado Survey (HKCS), with 46,537 high school and 6,983 middle school students responding in 2019, and the National Survey on Drug Use and Health (NSDUH), with 447 respondents in 2018/19.
  - HKCS results indicate no significant change in past 30-day use of marijuana between 2013 (19.7%) and 2019 (20.6%). Also, in 2019, the use rates were not different from the national 30-day use rates reported by the Youth Risk Behavior Survey.<sup>2</sup> In 2019, 20.6% of Colorado high school students reported using marijuana in the past 30-days compared to 21.7% of high school students nationally that reported this behavior.
  - The 2019 HKCS found that marijuana use increases by grade level, with 13.3% of 9<sup>th</sup> graders, 18.6% of 10<sup>th</sup> graders, 24.3% of 11<sup>th</sup> graders, and 26.9% of 12<sup>th</sup> reporting use in the past 30-days.
  - The 2015/16 NSDUH, with many fewer respondents compared to HKCS, indicated a gradual increase in youth use from 2006/07 (8.1%) to 2013/14 (12.6%); however, the

<sup>2</sup> The YRBS is the comparable survey overseen nationally by the Centers for Disease Control and Prevention.

reported use declined since then, with 9.8% reporting use in 2018/19. The NSDUH showed that youth use of marijuana in Colorado (9.8%) was above the national average (7.0%).

### **Arrests**

- The number of juvenile marijuana arrests decreased 37%, from 3,265 in 2012 to 2,064 in 2019. The rate of juvenile marijuana arrests per 100,000 decreased 42%, from 599 in 2012 to 349 in 2019.
  - The rate of White juvenile arrests decreased 47%, from 667 per 100,000 in 2012 to 352 per 100,000 in 2019.
  - The rate of Hispanic juvenile arrests decreased 26%, from 489 per 100,000 in 2012 to 364 in 2019.
  - The rate of Black juvenile arrests decreased 41%, from 727 per 100,000 in 2012 to 429 in 2019.

### **School suspension/expulsion rates**

- Data from the Colorado Department of Education show that that drug suspension rates increased from 391 (per 100,000 registered students) in the 2008-09 school year to 551 in 2010-11. The drug suspension rate fluctuated somewhat since then and was 426 in the 2019-20 school year. The drug expulsion rate was 65 (per 100,000 registered students) in the 2008-09 school year, increasing to 91 in 2010-11, and then decreasing to 23 by 2019-20.
  - School discipline data for 2019-20 indicated that marijuana infractions accounted for 30% of all expulsions and 34% of all law enforcement referrals in Colorado public schools. Given the arrest and fillings data, it can be assumed that these were almost all for possession.
    - Note that Senate Bill 12-046 and House Bill 12-1345 targeted reform of “zero tolerance” policies in schools, and appear to have decreased expulsions, suspensions, and referrals to law enforcement.<sup>3</sup>

### **Drug-endangered children**

- To assess drug-endangered children, as required in S.B. 13-283, data from CDPHE’s Child Health Survey (targeting parents with children ages 1-14) and Pregnancy Risk Assessment Monitoring System was obtained.
  - Of parents with children ages 1–14 who responded to the survey, 14.0% reported some type of marijuana product around the house. When asked about where it was kept, 89.6% reported storing it in a location the child cannot access.

<sup>3</sup> See Rosa, J., Krueger, J., and Severson, A. (May 2015). *Moving from Zero Tolerance to Supportive School Discipline Practices*. Office of Dropout Prevention and Student Re-engagement, Colorado Department of Education.



- The proportion of women reporting use before pregnancy in 2019 (18.7%), during pregnancy (8.2%), postpartum (8.5%), or postpartum and currently breastfeeding (4.7%) was not significantly different from the 2017 or 2018 survey results.

### **Additional Information**

- In June 2020, 2,709 licensed marijuana businesses were registered in Colorado. Nearly 60% of the licenses for marijuana businesses were concentrated in the counties of Denver (994), El Paso (292), and Pueblo (276).
- Total revenue from taxes, licenses, and fees increased from \$67 million in 2014 to \$387 million in 2020 (+473%). The amount of taxes transferred to the school capital construction fund and public school fund increased 264%, from \$33 million in 2015 up to \$120 million in 2020.
- In December 2020, there were 85,814 individuals registered as medical marijuana cardholders. The most common conditions reported were severe pain (90%), muscle spasms (36%), and severe nausea (20%).

## SECTION ONE INTRODUCTION

This section provides a brief overview of the statutory mandate behind this report, data limitations, data sources and analytical approaches. It also describes federal and state marijuana laws, including the federal responses to Colorado’s Amendment 64 which was passed by voters in 2012.

### Background, Limitations and Methods

In 2013, following the passage of Amendment 64 allowing for the retail sale and possession of marijuana, the Colorado General Assembly enacted Senate Bill 13-283. This bill mandated that the Division of Criminal Justice in the Department of Public Safety conduct a study of the impacts of Amendment 64, particularly as these relate to law enforcement activities. This report seeks to present the measures for the metrics specified in S.B. 13-283 (C.R.S. 24-33.4-516). These metrics, which guide the structure of this report and the data elements analyzed, are presented in Table 1.

**Table 1. Data collection requirements of Senate Bill 2013-283**

| Statutory Category                              | Statutory Definition   |
|---|--|
| <b>Impacts on Public Safety</b>                 |  |
| Marijuana-Initiated Contacts by Law Enforcement | Marijuana-initiated contacts by law enforcement, broken down by judicial district and by race and ethnicity                        |
| Marijuana Criminal Arrest Data                  | Marijuana arrest data, including amounts of marijuana with each arrest, broken down by judicial district and by race and ethnicity |
| Marijuana-Related Traffic Accidents             | Traffic accidents, including fatalities and serious injuries related to being under the influence of marijuana                     |
| Out-of-State Diversion                          | Diversion of marijuana out of Colorado   |
| Marijuana Site Operational Crime Statistics     | Crime occurring in and relating to the operation of marijuana establishments   |
| Marijuana Transfer Using Parcel Services        | Utilization of parcel services for the transfer of marijuana   |
| Probation Data                                  | Probation data   |
| Outdoor Marijuana Cultivation                   | Outdoor marijuana cultivation facilities   |
| Money Laundering                                | Money laundering relating to both licensed and unlicensed marijuana  |
| Organized Crime                                 | The role of organized crime in marijuana   |



| Impacts on Youth  |  |
|---|--|
| Comprehensive School Data   | Comprehensive school data, both statewide and by individual school, including suspensions, expulsions, and police referrals related to drug use and sales, broken down by specific drug categories   |
| Drug Endangered Children  | Data related to drug-endangered children, specifically for marijuana   |
| Diversion to Minors   | Diversion of marijuana to persons under twenty-one years of age  |
| Impacts on Public Health  |  |
| Data on Emergency Room Visits and Poison Control  | Data on emergency room visits related to the use of marijuana and the outcomes of those visits, including information from Colorado Poison Control Center  |
| Monitor Health Effects of Marijuana (Colorado Department of Public Health and Environment)  | Monitor changes in drug use patterns, broken down by race and ethnicity, and the emerging science and medical information relevant to the health effects associated with marijuana use.  |
|   | The Department shall appoint a panel of health care professionals with expertise in cannabinoid physiology to monitor the relevant information. The panel shall provide a report by January 31, 2015, and every two years thereafter to the State Board of Health, the Department of Revenue, and the general assembly. The Department shall make the report available on its website. |
|   | The panel shall establish criteria for studies to be reviewed, reviewing studies and other data, and making recommendations, as appropriate, for policies intended to protect consumers of marijuana or marijuana products to the general public.  |
|   | The Department may collect Colorado-specific data that reports adverse health events involving marijuana use from the all-payer claims database, hospital discharge data, and behavioral risk factors.   |
| Source: Derived from Rebound Solutions (2014), <i>Marijuana data discovery and gap analysis summary report</i> , at <a href="https://cdpsdocs.state.co.us/ors/docs/resources/MarijuanaDataDiscoveryandGapAnalysis.pdf">https://cdpsdocs.state.co.us/ors/docs/resources/MarijuanaDataDiscoveryandGapAnalysis.pdf</a> |  |

## Data limitations

It is critical to state at the outset that important caveats must be considered prior to drawing firm conclusions about the impacts of marijuana legalization. First, it is not possible to definitively separate the change in marijuana laws from other changes that have occurred in Colorado, both societal and

legal. Second, changes in reported marijuana use may be the result of decreased social stigma and legal ramifications. For example, an adult may be more willing to divulge marijuana use upon admission to an emergency department now that it is legal. Third, legalization has heightened awareness of the need to gather data on marijuana and, in some cases, has led to improvements in data collection that then make analyzing historical trends difficult. For example, the Colorado Department of Transportation improved its data collection systems on fatal crashes, allowing for better analysis of current data but has made some of the historical data not comparable. For these reasons, we caution readers about gaps in data that impede our comprehensive understanding of the impact of the legalization of retail marijuana in Colorado.

## Data Sources

The information presented in this report was compiled from data made available from the following entities:

### Colorado State Government

- Colorado Attorney General’s Office, Peace Officer Standards and Training
- Colorado Department of Education
- Colorado Department of Human Services, Office of Behavioral Health
- Colorado Department of Local Affairs, Office of Demography
- Colorado Department of Public Health and Environment, Center for Health and Environmental Data
- Colorado Department of Public Health and Environment, Disease Control and Environmental Epidemiology Division
- Colorado Department of Public Health and Environment, Laboratory Services Division
- Colorado Department of Public Health and Environment, Marijuana Health Monitoring and Research Program
- Colorado Department of Public Health and Environment, Prevention Services Division
- Colorado Department of Public Safety, Colorado Bureau of Investigation
- Colorado Department of Public Safety, Colorado Information Analysis Center
- Colorado Department of Public Safety, Colorado State Patrol
- Colorado Department of Public Safety, Division of Criminal Justice
- Colorado Department of Revenue, Marijuana Enforcement Division
- Colorado Department of Revenue, Taxation Division
- Colorado Department of Transportation
- Colorado Governor’s Office of State Planning and Budgeting
- Colorado Judicial Branch, Court Services Division
- Colorado Judicial Branch, Probation Services Division

### Municipal and Private

- Chematox Laboratory



- City and County of Denver, Office of Marijuana Policy
- Coalition of Colorado Alcohol and Drug Educators
- Colorado Hospital Association
- Denver County Court
- Denver Police Department
- Rocky Mountain Poison and Drug Center

### Federal

- Rocky Mountain High Intensity Drug Trafficking Area
- U.S. Bureau of Land Management
- U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration
- U.S. Department of Justice, Drug Enforcement Administration
- U.S. Forest Service
- U.S. National Park Service

## **Data Collection Methodology**

The data were collected and analyzed in several ways. First, many entities provide public information on agency websites in the form of reports, briefing papers, and downloadable spreadsheets (e.g., the National Survey on Drug Use and Health). When this was the case, the analysis was conducted by Division of Criminal Justice (DCJ) researchers, and links to the original source material are provided in footnotes. Second, summary data were analyzed and provided by several entities; this information was made available for this report and is not published elsewhere (e.g., CDPHE's analysis of marijuana users who report driving after consuming). Third, several entities provided individual-level, nonpublic data (e.g., CBI's arrest data), and these data were analyzed by DCJ researchers. All analyses and graphic presentations were sent to the original data sources for review to ensure the information is accurately represented.

## **Brief History of Marijuana Laws**

### Federal Law

The Federal Controlled Substances Act (CSA)<sup>4</sup> classifies marijuana as a Schedule I drug. Drugs classified as Schedule I are considered the most dangerous class of drugs with no currently accepted medical use and a high potential for abuse. Some examples of other Schedule I drugs include heroin, MDMA (ecstasy, Molly), LSD, mescaline (peyote), and psilocybin (mushrooms).

The Schedule I classification puts state laws legalizing medical or recreational marijuana at odds with the CSA. As of July 2018, there were nine states plus the District of Columbia allowing for the sale of recreational marijuana in addition to medical marijuana, 22 states allowing only medical marijuana, 15

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<sup>4</sup> 21 U.S.C. § 811.

states allowing cannabidiol<sup>5</sup> exclusively, and four states that do not allow any legal cannabis products.<sup>6</sup> The widespread growth of medical marijuana legalization over the past 20 years has put an increasing number of states, including Colorado, in conflict with the CSA. Figures 1-3 give snapshots of state marijuana laws at three different points in time to demonstrate the evolution of legalization.

The 2018 federal farm bill<sup>7</sup> legalized the growth, production, transportation, and sales of hemp plants as well as hemp products. The definition of hemp in the farm bill (and Amendment 64) is a plant with less than 0.3% THC. There is no discernible difference in the appearance of hemp and marijuana, which makes determining if a field of shipment of hemp meets the legal definition regarding THC content.

There are a number of products that can be derived from hemp, but the most notable is an extract called cannabidiol (CBD), CBD is used in a variety of products, including tinctures, oils, food, lotions, and many others. These products were declared legal and removed from the enforcement of the CSA.

### Colorado Laws

The following bullets reflect five distinct eras in both the legal status and commercial availability of marijuana in Colorado:

- Prior to 2000: Illegal to possess or grow.
- 2000–2009: Amendment 20 approved and medical marijuana is legalized. Colorado Department of Public Health and Environment (CDPHE) issues registry identification cards to individuals who have received recommendations from a doctor that marijuana will help a debilitating medical condition. It is legal to possess up to two ounces and grow 6 plants (or more with doctor's recommendation) with a registry identification card. No regulated market exists. Individual grow operations or caregiver grow operations limited to five patients is allowed.
- 2010–2012: Medical marijuana is commercialized and regulated with licensed dispensaries, grow operations, and product manufacturers open in jurisdictions allowing these types of businesses.
- 2013: Amendment 64 takes effect. Personal possession and grow limits for recreational marijuana are in place but sales are not commercialized. Medical continues as a regulated, commercial market.
- 2014 to present:<sup>8</sup> Recreational and medical marijuana fully regulated and commercialized. Licensed retail stores opened January 1, 2014.

<sup>5</sup> Cannabidiol (CBD) is a non-psychoactive substance derived from cannabis with potential medical uses. For a review of some relevant research, see Scuderi, C. et al. (2009). Cannabidiol in medicine: a review of its therapeutic potential in CNS disorders, *Phytotherapy Research*, 23 (5), 597-602.

<sup>6</sup> National Conference of State Legislatures, *State Medical Marijuana Laws* (2018), <http://www.ncsl.org/research/health/state-medical-marijuana-laws.aspx>

<sup>7</sup> Agriculture Improvement Act of 2018, <https://www.agriculture.senate.gov/download/farm-bill/agriculture-improvement-act-of-2018>

<sup>8</sup> Others group 2010–2013 as the era of medical commercialization and do not differentiate 2013 as it did not increase the availability of marijuana in the commercial market.

## Amendment 20

In 2000, Colorado passed Amendment 20 allowing those suffering from certain debilitating medical conditions to grow and possess a limited amount of marijuana with a doctor's recommendation that it may help their condition.<sup>9</sup> Patients are required to register with the Colorado Department of Public Health and Environment (CDPHE) and obtain a registry identification card that indicates their status as a certified medical marijuana patient. The list of conditions eligible for a card includes cachexia, cancer, glaucoma, HIV/AIDS, muscle spasms, post-traumatic stress disorder, seizures, severe nausea, and severe pain. Amendment 20 provides an affirmative defense from prosecution for cardholders who are allowed to grow six plants (three mature, three immature) and possess up to two ounces of finished product, unless a doctor determines that additional marijuana is needed to treat a patient's condition. Patients can choose to grow their own marijuana or designate a caregiver to grow it for them.

Initially, a caregiver was limited to growing medical marijuana for five patients and his/herself if he/she was a medical marijuana cardholder. The justification for this limit was challenged in Denver District Court, and was overturned.<sup>10</sup> In 2009, the Colorado Board of Health rejected the five-patient limit for caregivers. That same year, the U.S. Department of Justice issued what is known as the Ogden Memo (see Appendix A), which gave guidance to U.S. Attorneys regarding prosecution for marijuana offenses. Specifically, the Ogden Memo told U.S. Attorneys that they should not "focus federal resources in your States on individuals whose actions are in clear and unambiguous compliance with existing state laws providing for the medical use of marijuana."<sup>11</sup> The combination of the Court decision, the Board of Health's rejection of the five-patient caregiver limit, and the Ogden Memo set the stage for the commercialization of medical marijuana. In 2010, two laws were passed: a medical marijuana code was promulgated by the Legislature through the passage of House Bill 10-1284, which established a regulatory structure within the Colorado Department of Revenue (DOR) and the Colorado Department of Public Health and Environment (CDPHE); and Senate Bill 10-109, which clarified the definition of a "bona fide physician patient relationship." The Marijuana Enforcement Division (MED) was created within DOR to license and regulate the medical marijuana industry in Colorado.<sup>12</sup>

The commercialization of medical marijuana followed and the number of patients registered with CDPHE increased dramatically, from about 5,000 in 2009 to almost 119,000 in 2011. The number of registered patients dropped to 85,814 as of December 2020.

<sup>9</sup> Colo. Const. Art. XVIII, § 14. Additional information can be accessed at Ballotpedia, Colorado Medical Use of Marijuana, Initiative 20 (2000), [https://ballotpedia.org/Colorado\\_Medical\\_Use\\_of\\_Marijuana,\\_Initiative\\_20\\_\(2000\)](https://ballotpedia.org/Colorado_Medical_Use_of_Marijuana,_Initiative_20_(2000)).

A detailed review of the history of medical marijuana in Colorado and the recent status of the medical marijuana code can be found in the Colorado Department of Regulatory Agencies' 2014 Sunset Review: *Colorado Medical Marijuana Code*, available at <https://drive.google.com/a/state.co.us/file/d/0B8bNvcf083ydTFpkdVRwdnhTazQ/view>.

<sup>10</sup> *Lagoy v. Colorado*, 2007 CV 6089 (Denver County District Court, 2<sup>nd</sup> Judicial District, November 15, 2007; Denver County District Court, 2<sup>nd</sup> Judicial District, November 5, 2009).

<sup>11</sup> U.S. Department of Justice (2009). Ogden memo: Investigations and prosecutions in states authorizing the medical use of marijuana, at <http://www.justice.gov/sites/default/files/opa/legacy/2009/10/19/medical-marijuana.pdf>.

<sup>12</sup> Medical Marijuana Code: C.R.S. 12-43.3-101 *et seq.* For additional information on the MED, see <https://www.colorado.gov/enforcement/marijuanaenforcement>.

## Amendment 64

Prior to the passage of Amendment 64 in 2012, Initiative 44 was on the ballot in 2006 in an attempt to legalize the possession of one ounce or less of marijuana for adults 21 and older. The initiative failed, with 59% of Colorado voters saying no to the question of allowing limited possession and use.<sup>13</sup> In 2012, a more expansive initiative was placed on the ballot that would not simply allow for possession but would create the first legal marketplace for recreational marijuana in the world. Amendment 64 passed, with 55% of voters saying yes to the question.<sup>14</sup>

Amendment 64 allows individuals 21 years or older to grow up to six plants (three mature and three immature) and keep all of the marijuana produced on the same premises, possess up to one ounce of marijuana, and give away without remuneration up to one ounce of marijuana to someone 21 years or older. It also instructed Colorado's Marijuana Enforcement Division to create rules, regulations, and licenses to allow for the first recreational marijuana marketplace by July 1, 2013. This included rules for licensing, ownership, security, labeling, production control, reduction of diversion, health and safety standards, advertising, and privacy guarantees. These rules resulted in the Retail Marijuana Code.<sup>15</sup>

The MED began accepting applications for retail stores on October 1, 2013. At that time applicants needed to have a current medical marijuana license to be eligible for a retail license. The first stores opened on January 1, 2014.<sup>16</sup>

Additional rule-making was conducted by the Department of Revenue, Department of Public Health and Environment, Department of Agriculture, and the Department of Regulatory Affairs to clarify a variety of issues that have arisen with the advent of the first legal marijuana marketplace.<sup>17</sup> Examples include issues regarding pesticide application, testing for mold and solvents, THC homogeneity in manufactured products, among others.

## Federal Response

In the wake of Amendment 64 and other recreational legalization efforts throughout the country, in 2013 the United States Department of Justice (USDJ) issued what is known as the Cole Memo (see Appendix B).<sup>18</sup> This gave guidance to U.S. Attorneys across the country. The Cole Memo set forth USDJ's enforcement priorities, including:

1. Preventing distribution of marijuana to minors
2. Preventing revenue from going to criminal enterprises, gangs, and cartels

<sup>13</sup> Ballotpedia, Colorado Marijuana Possession, Initiative 44 (2006), available at [https://ballotpedia.org/Colorado\\_Marijuana\\_Possession, Initiative\\_44\\_\(2006\)](https://ballotpedia.org/Colorado_Marijuana_Possession,Initiative_44_(2006))

<sup>14</sup> Ballotpedia, Colorado Marijuana Legalization Initiative, Amendment 64 (2012), [https://ballotpedia.org/Colorado\\_Marijuana\\_Legalization\\_Initiative,Amendment\\_64\\_\(2012\)](https://ballotpedia.org/Colorado_Marijuana_Legalization_Initiative,Amendment_64_(2012))

<sup>15</sup> Retail Marijuana Code: C.R.S. 12-43.4-101 *et seq.* at <https://sbg.colorado.gov/med-ru>

<sup>16</sup> For a detailed review of the history of the regulation of retail marijuana see Department of Regulatory Agencies (2015), *2015 sunset review: Colorado retail marijuana code*, at <https://drive.google.com/file/d/0B8bNvcf083ydSlh4NWtHTjFoa2s/view>

<sup>17</sup> A compendium of amendments, statutes, and rules is available in the *Colorado marijuana laws and regulations 2017* (2018). LexisNexis: Charlottesville, VA. This publication is updated annually to reflect changes in statutes and rules.

<sup>18</sup> U.S. Department of Justice (2013). *Cole memo: Guidance regarding marijuana enforcement*, at <http://www.justice.gov/iso/opa/resources/3052013829132756857467.pdf>

3. Preventing diversion of marijuana from states where it is legal under state law in some form to other states
4. Preventing state-authorized marijuana activity from being used as a cover or pretext for the trafficking of other illegal drugs or other illegal activity
5. Preventing violence and the use of firearms in the cultivation and distribution of marijuana
6. Preventing driving under the influence of drugs (DUID) and exacerbation of other adverse public health consequences associated with marijuana use
7. Preventing growth on public lands with attendant public safety and environmental damages
8. Preventing marijuana possession or use on federal property

The General Accounting Office (GAO) reported in 2015 that USDOJ's Office of the Deputy Attorney General was monitoring the effects of marijuana legalization in two ways.<sup>19</sup> First, according to the GAO report, "U.S. Attorneys prosecute cases that threaten federal marijuana enforcement priorities and consult with state officials about areas of federal concern, such as the potential impact on enforcement priorities of edible marijuana products. Second, officials reported they collaborate with DOJ components, including the Drug Enforcement Administration (DEA) and other federal agencies, including the Office of National Drug Control Policy, and assess various marijuana enforcement-related data these agencies provide." The GAO report indicated that the USDOJ has not documented its monitoring approach, leading to a gap in knowledge about state-level adherence to the Cole memo. In Colorado, the Rocky Mountain High Intensity Drug Trafficking Area (RMHIDTA), funded by the Office of National Drug Control Policy, is tracking the impact of marijuana legalization in the state and has produced five reports of findings.<sup>20</sup>

Attorney General Jeff Sessions rescinded the Cole Memo on January 4, 2018 and gave full discretion on the investigation and prosecution of marijuana offenses to the U.S. Attorneys' offices. This means that a case no longer must include violations of Cole Memo factors before it is pursued for Federal prosecution.

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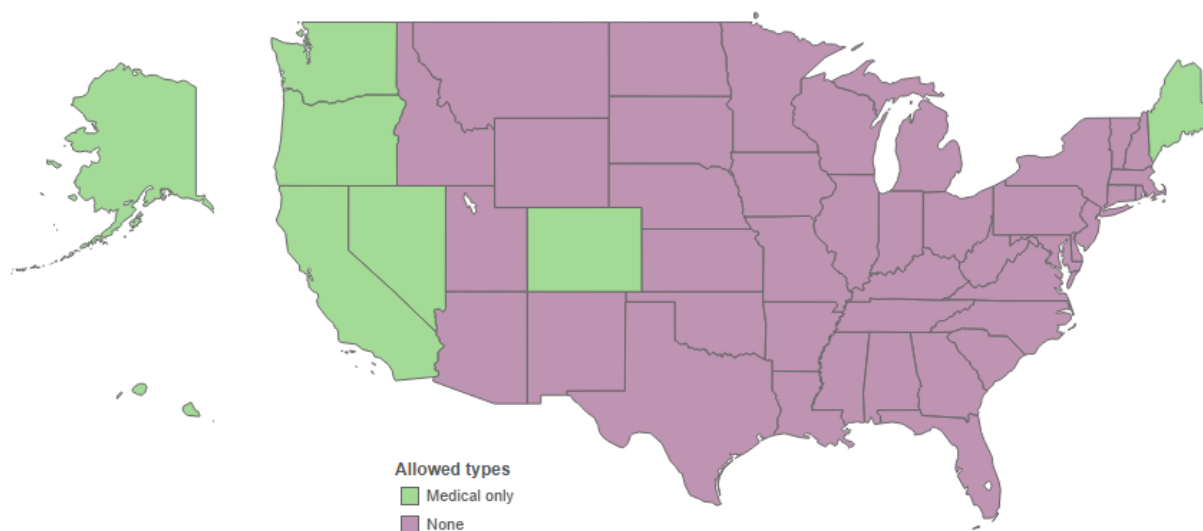
<sup>19</sup> U.S. Government Accountability Office (2015). *State Marijuana Legalization: DOJ Should Document its Approach to Monitoring the Effects of Legalization*, available at <http://www.gao.gov/products/GAO-16-1>

<sup>20</sup> RMHIDTA (2017). *The Legalization of Marijuana in Colorado: The Impact*, at <http://www.rmhidta.org/html/FINAL%202017%20Legalization%20of%20Marijuana%20in%20Colorado%20The%20Impact.pdf>

## State Marijuana Legal Landscape

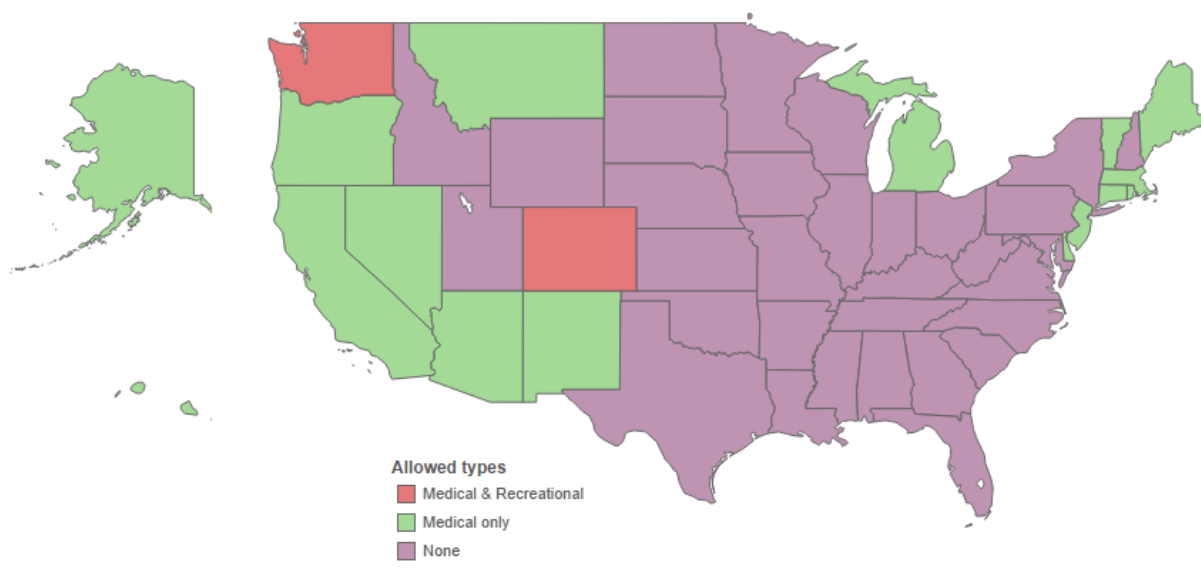
The evolution of state-level marijuana laws is presented in Figures 1-3. It is important to realize that while medical, retail, and CBD legalization are grouped in these maps they represent different approaches to legalization and the National Conference of State Legislatures source site should be consulted for additional details. In 2000, there were eight states that allowed legal medical marijuana (Figure 1). In 2012, two states allowed legal retail/recreational marijuana and 17 allowed medical marijuana (Figure 2). By the end of 2020, 16 states allowed retail/recreational marijuana, 20 allowed medical marijuana, and an additional 13 allowed cannabidiol products (Figure 3).

**Figure 1. State marijuana legalization status, 2000**



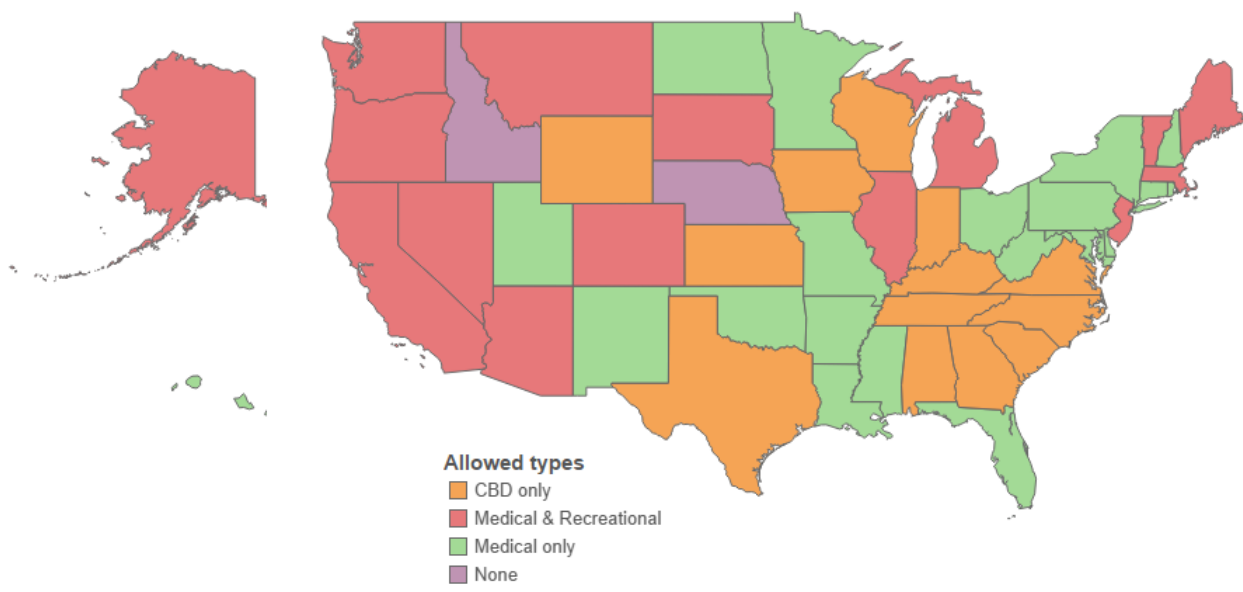
Source: National Conference of State Legislatures, at <http://www.ncsl.org/research/health/state-medical-marijuana-laws.aspx>

Figure 2. State marijuana legalization status, 2012



Source: National Conference of State Legislatures, at <http://www.ncsl.org/research/health/state-medical-marijuana-laws.aspx>

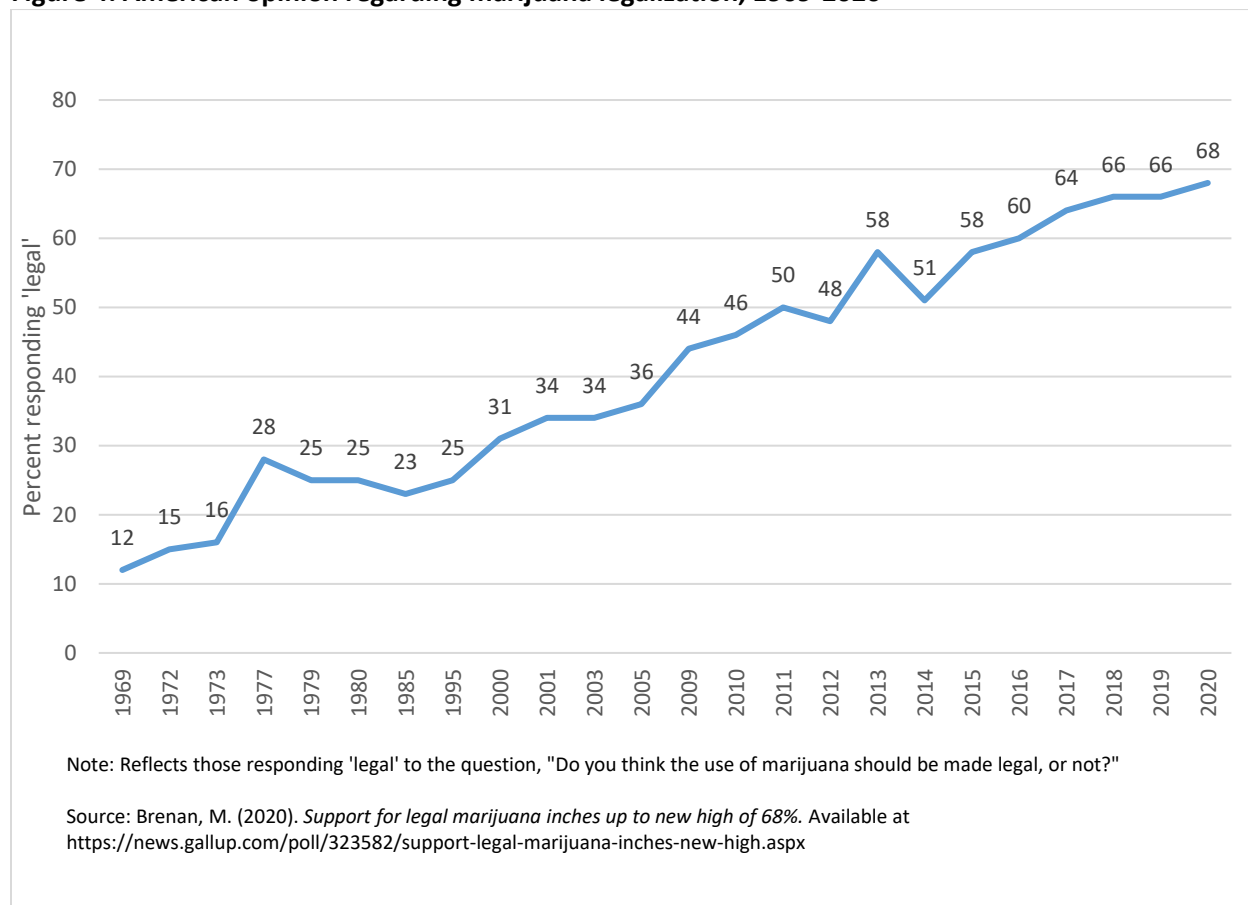
Figure 3. State marijuana legalization status, 2020



Source: National Conference of State Legislatures, at <http://www.ncsl.org/research/health/state-medical-marijuana-laws.aspx>

The Gallup Poll has asked about people's opinion regarding marijuana legalization since 1969. The percent expressing support for legalization has increased over time, and in 2020, 68% indicated that marijuana should be legalized (Figure 4).

**Figure 4. American opinion regarding marijuana legalization, 1969-2020**



## Organization of this Report

Section Two focuses on the public safety impacts of marijuana legalization while Section Three presents information concerning public health and behavioral services. Section Four presents impacts on youth, and Section Five provides additional information that may be of interest to the reader.

## Summary

This report presents data from multiple sources in an effort to provide information for assessing the impact of the commercialization of marijuana on public safety, public health, behavioral services, and youth access in Colorado, drawing from a myriad of data sources. It is critical to remember that important data limitations exist, and these issues are discussed throughout the report. The history of marijuana laws in Colorado, along with the Ogden and Cole Memos, reflect the dynamic environment in which regulations and enforcement are critical components. The impact of Amendment 64 on public safety is the focus of the next section.



## SECTION TWO

### IMPACT ON PUBLIC SAFETY

#### Overview

The potential impacts to public safety from the legalization of marijuana were of concern to the legislature, law enforcement officials, district attorneys, and other public safety stakeholders across the state. Since no jurisdiction had yet legalized marijuana for recreational purposes, the public safety impacts were unknown. The Cole Memo (see Appendix B; see Section One) provided guidance on several public safety impacts of concern to the U.S. Department of Justice. The specific public safety areas of interest addressed in Senate Bill 2013-183 (see Section One for a description of this bill), some of which were influenced by the Cole Memo, included the following:

- Marijuana-initiated law enforcement contacts
- Marijuana arrests
- Crime around marijuana establishments
- Marijuana-related traffic accidents and DUID
- Organized crime and money laundering
- Probation infractions
- Illegal cultivation on public land
- Diversion out of state
- Transfer using parcel services

#### Data Collection Challenges

Meeting the reporting requirements of Senate Bill 2013-183 remains challenging. For example, “marijuana-initiated law enforcement contacts,” a data point mandated in the bill, is not a term used by any law enforcement agency, nor is contact data (for any purpose) collected systematically by law enforcement agencies. Further, S.B. 13-283 required contact data to be disaggregated by race/ethnicity, and it is not known how a law enforcement officer would determine race/ethnicity of individuals involved in a marijuana-initiated contact. In sum, this information does not exist and therefore cannot be included in this analysis.

Information on arrests is available, but only from 2012 due to improvements in data reporting. The National Incident Based Reporting System (NIBRS) is part of the Federal Bureau of Investigation’s data collection system, and is managed locally by the Colorado Bureau of Investigation. NIBRS has significantly more information than the Uniform Crime Reporting (UCR) system, including information about drug type, which is not available in UCR data. Colorado became a “NIBRS compliant” state in 2012, with nearly all agencies reporting greater details on crime incidents. For this reason, information concerning Colorado arrests related to marijuana offenses is unavailable for analysis prior to 2012.

Data on crime around marijuana establishments are not collected in any central repository, but the Denver Police Department began a process in 2012 to assess whether such crime was a significant problem, and this information is reported below.

Likewise, information on diversion of marijuana out of state and transfer using parcel services is not collected in any central location. Additionally, with an enhanced focus on marijuana, it is possible that law enforcement agencies, becoming more aware of the issue, would increase interdiction efforts, potentially resulting in an increase in seizures which may or may not be related to an actual increase in diversion.

Significant challenges exist in the collection of information on traffic accidents and driving under the influence. The state statute on impaired driving does not differentiate between driving under the influence of alcohol and driving under the influence of drugs. Further, there is no central repository for toxicology results from drivers that would allow for an examination of impaired driving throughout the state. The current data system that collects information on roadway fatalities does not capture the specific toxicology results that would indicate impairment, does not consistently capture information on surviving drivers involved in fatalities, and is limited to testing results from three drugs detected in the driver's system.

S.B. 13-283 mandates the analysis of "probation data." To this end, probationer drug tests associated with marijuana use were analyzed,<sup>21</sup> but the State Judicial Branch's database does not capture whether an infraction or revocation was marijuana-related or even related to drugs in general.

Despite significant challenges in meeting all of the statute's reporting requirements, data that are available were analyzed to help inform stakeholders about these issues.

## Offenses and Arrests<sup>22</sup>

Data on marijuana arrests and offenses for the period 2012–2019 were obtained from the Colorado Bureau of Investigation's (CBI) National Incident-Based Reporting System (NIBRS) database. The NIBRS database includes detailed information on arrests and offenses, which the previous UCR summary reporting system did not provide. Colorado became fully NIBRS compliant in 2012, which limits the years of historical data available for analysis.

### Marijuana Arrests

#### *Overall*

The total number of marijuana arrests decreased by 68% between 2012 and 2019, from 13,225 to 4,290 (Table 2). Marijuana possession arrests, which make up the majority of all marijuana arrests, were cut by nearly three-quarters (-71%). Marijuana sales arrests decreased by 56%, while arrests for marijuana

<sup>21</sup> Juvenile probation data is presented in *Section Four: Impacts on Youth*.

<sup>22</sup> While offenses and arrests are related, they are not the same and may display different patterns. An offense is counted when a crime is reported to law enforcement, regardless of whether there is an arrest. For example, there may be a reported burglary with no related arrest. An arrest is a response to a crime, and there may be multiple arrests for a single offense. For example, one robbery committed by two suspects can result in two arrests.

production increased slightly (+3%). Marijuana arrests that were unspecified, meaning the specific reason for the arrest was not provided by law enforcement, went down by 459. The arrest rates per 100,000 adult population between 2012 and 2019 followed similar trends, with the possession rate down 75%, sales down 61%, and production down 9%.

### *Age Group*

Between 2012 and 2019, an 84% reduction in arrests occurred for those ages 21 and older for whom marijuana possession of one ounce or less is now legal (Table 2). This compares with a 65% reduction in the 18- to 20-year-old group who may legally possess only when they have a medical marijuana card. Juveniles between the ages of 10 and 17 showed a 37% decrease in the number of marijuana arrests. In 2019, juveniles accounted for nearly half (48%) of all marijuana arrests compared to 25% in 2012.

The age group with the highest arrest rate in 2019 was 18- to 20-year-olds, at 498 per 100,000 18- to 20-year-olds in the population (Table 3). This was higher than the juvenile rate (349) and 20 times higher than the rate for those 21 or older (24).

### *Race/Ethnicity*

The decrease in the number of marijuana arrests by race/ethnicity was greatest for White arrestees (-72%) compared to Hispanics (-55%) and Blacks (-63%). The 2019 marijuana arrest rates for Whites (76 per 100,000), Hispanics (107 per 100,000), and Blacks (160 per 100,000) shows that there is still disparity by race. (Table 3). However, it should be noted that the arrest totals and rates for all races have decreased significantly post-legalization.

### *Gender*

Between 2012 and 2019 the number of males arrested for marijuana offenses (Table 2) decreased 70% compared to a decline of 56% for females. The arrest rate for males (125 per 100,000) was nearly triple that for females (44 per 100,000) (Table 3).

**Table 2. Marijuana arrests in Colorado, 2012–2019**

|                               | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|-------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total</b>                  | 13,225 | 6,637 | 7,128 | 6,998 | 6,502 | 6,483 | 5,970 | 4,290 |
| <b>Age group</b>              |        |       |       |       |       |       |       |       |
| Under 18                      | 3,265  | 3,122 | 3,379 | 3,019 | 2,648 | 2,701 | 2,573 | 2,064 |
| 18 to 20                      | 3,392  | 2,304 | 2,278 | 2,124 | 2,098 | 2,173 | 1,971 | 1,194 |
| 21 or older                   | 6,568  | 1,211 | 1,471 | 1,855 | 1,756 | 1,609 | 1,426 | 1,032 |
| <b>Gender</b>                 |        |       |       |       |       |       |       |       |
| Male                          | 10,716 | 5,379 | 5,626 | 5,529 | 5,056 | 4,937 | 4,344 | 3,175 |
| Female                        | 2,509  | 1,258 | 1,502 | 1,469 | 1,446 | 1,546 | 1,626 | 1,115 |
| <b>Race/ethnicity</b>         |        |       |       |       |       |       |       |       |
| White non-Hispanic            | 9,573  | 4,574 | 4,663 | 4,543 | 4,292 | 4,276 | 3,855 | 2,721 |
| Hispanic                      | 2,455  | 1,396 | 1,603 | 1,615 | 1,476 | 1,510 | 1,514 | 1,112 |
| African-American non-Hispanic | 982    | 552   | 721   | 681   | 561   | 496   | 424   | 365   |
| Other non-Hispanic            | 215    | 115   | 141   | 159   | 173   | 201   | 177   | 92    |
| <b>Crime type</b>             |        |       |       |       |       |       |       |       |
| Possession                    | 11,360 | 5,404 | 5,962 | 5,974 | 5,416 | 5,113 | 4,683 | 3,265 |
| Sales                         | 301    | 224   | 229   | 174   | 221   | 249   | 232   | 133   |
| Production                    | 179    | 111   | 176   | 192   | 256   | 274   | 258   | 185   |
| Smuggling                     | 6      | 5     | -     | 4     | 8     | 3     | 13    | 4     |
| Unspecified                   | 1,379  | 893   | 761   | 654   | 601   | 844   | 784   | 703   |
| <b>Arrest type</b>            |        |       |       |       |       |       |       |       |
| On-view                       | 3,326  | 1,340 | 1,216 | 1,213 | 1,437 | 1,462 | 1,323 | 926   |
| Summons/citations             | 8,982  | 4,912 | 5,526 | 5,456 | 4,594 | 4,551 | 4,238 | 2,994 |
| Warrant                       | 917    | 385   | 386   | 329   | 471   | 470   | 409   | 370   |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System. Analyzed by the Division of Criminal Justice.

Notes: A person can be charged with more than one drug offense. The totals for drug crime type are slightly larger than the count of total people arrested. On-view are custodial arrests without a warrant or previous incident report. Warrants are custodial arrests based on a warrant or previous incident report. Summons/citations are non-custodial arrests where a citation is given to the person and they are instructed to appear in court at a later date.

**Table 3. Marijuana arrest rates in Colorado, 2012–2019**

|                               | 2012  | 2013  | 2014  | 2015 | 2016 | 2017 | 2018 | 2019 |
|-------------------------------|-------|-------|-------|------|------|------|------|------|
| Total                         | 293   | 145   | 153   | 147  | 134  | 131  | 119  | 84   |
| <b>Age group</b>              |       |       |       |      |      |      |      |      |
| Under 18                      | 599   | 565   | 602   | 528  | 456  | 461  | 436  | 349  |
| 18 to 20                      | 1,527 | 1,025 | 1,016 | 941  | 922  | 941  | 835  | 498  |
| 21 or older                   | 176   | 32    | 38    | 47   | 43   | 39   | 34   | 24   |
| <b>Gender</b>                 |       |       |       |      |      |      |      |      |
| Male                          | 476   | 235   | 241   | 232  | 208  | 200  | 173  | 125  |
| Female                        | 111   | 55    | 64    | 62   | 59   | 63   | 65   | 44   |
| <b>Race/ethnicity</b>         |       |       |       |      |      |      |      |      |
| White non-Hispanic            | 293   | 138   | 139   | 133  | 124  | 122  | 109  | 76   |
| Hispanic                      | 283   | 156   | 175   | 171  | 152  | 151  | 147  | 107  |
| African-American non-Hispanic | 516   | 282   | 357   | 327  | 262  | 226  | 188  | 160  |
| Other non-Hispanic            | 119   | 61    | 73    | 78   | 82   | 92   | 78   | 40   |
| <b>Crime type</b>             |       |       |       |      |      |      |      |      |
| Possession                    | 252   | 118   | 128   | 125  | 111  | 104  | 93   | 64   |
| Sales                         | 7     | 5     | 5     | 4    | 5    | 5    | 5    | 3    |
| Production                    | 4     | 2     | 4     | 4    | 5    | 6    | 5    | 4    |
| Smuggling                     | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    |
| Unspecified                   | 31    | 19    | 16    | 14   | 12   | 17   | 16   | 14   |
| <b>Arrest type</b>            |       |       |       |      |      |      |      |      |
| On-view                       | 74    | 29    | 26    | 25   | 30   | 30   | 26   | 18   |
| Summons/citations             | 199   | 107   | 118   | 114  | 95   | 92   | 84   | 59   |
| Warrant                       | 20    | 8     | 8     | 7    | 10   | 10   | 8    | 7    |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System; Colorado State Demography Office Data, <https://demography.dola.colorado.gov/data/>. Analyzed by the Division of Criminal Justice.

Note: Rates are calculated using data obtained from the Colorado State Demography Office. The rates for total arrests, arrests by drug crime type, and arrest type are calculated based on the total population 10 years of age and older. Rates for specific age groups are calculated based on the population in that age group. Rates by race/ethnicity and gender are calculated based on the population 10 years of age and older in those respective race/ethnicity and gender categories.

Notes: A person can be charged with more than one drug offense. The totals for drug crime type are slightly larger than the count of total people arrested. On-view are custodial arrests without a warrant or previous incident report. Warrants are custodial arrests based on a warrant or previous incident report. Summons/citations are non-custodial arrests where a citation is given to the person and they are instructed to appear in court at a later date.

### County

Nine large Colorado counties (Adams, Arapahoe, Boulder, Douglas, El Paso, Jefferson, Larimer, Mesa, and Weld) showed a decrease in marijuana arrests between 2012 and 2019, ranging between -8% (Boulder) and -67% (Adams). The average decrease in these nine counties was -43% (see Appendix C, Tables 1 and 2). Pueblo showed a 61% increase in arrests, but the number increased by 14 arrests, from 27 in 2012 to 49 in 2019. Denver's reported marijuana arrest data for 2012 and 2013 was incomplete due to separate jail arrest and citation systems. Citation and release data were not reported to the Colorado Bureau of Investigation until July 2013. Additionally, the 2014 arrest data reported by the Denver Police Department include non-criminal civil citations, which resulted in an over-reporting of marijuana arrests for that year. The county-level data in Appendix C presenting this information should be interpreted with caution. Separate data provided by the Denver Police Department's Data Analysis

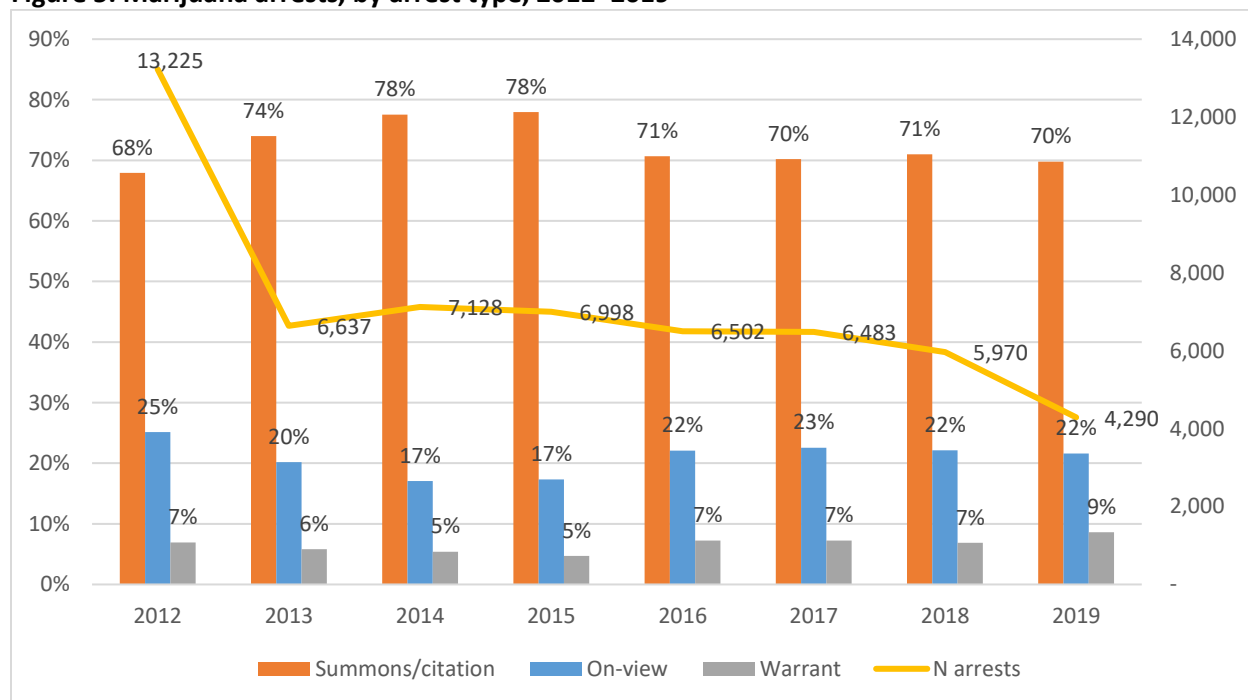
Unit indicated an 81% decrease in total marijuana arrests, from 1,605 in 2012 to 302 in 2019 (Appendix C, Table 5).

*Arrest Type*

There are three general arrest types reported by law enforcement in NIBRS. *On-view* are custodial arrests without a warrant or previous incident report. *Warrants* are custodial arrests based on a warrant or previous incident report. *Summons/citations* are non-custodial arrests where a citation is issued and the person is instructed to appear in court at a later date. As can be seen in Figure 5, after legalization the proportion of arrests that resulted in a summons or citation increased 10% between 2012 and 2015, and on-view arrests decreased by 8%. This trend reversed in 2016 when the ratio of on-view to summons/citation arrests was back to pre-legalization levels.

Table 4 presents detailed data on the different types of marijuana arrests by age, race/ethnicity, and gender. Juveniles under 18 were more likely to receive a summons/citation (86%) than an on-view arrest (10%) or a warrant arrest (4%). Young adults 18-20 years old were also more likely to receive a summons/citation (75%) than an on-view arrest (20%) or a warrant arrest (5%). Adults 21 years or older were more likely to get an on-view arrest (46%) than a summons/citation (32%) or warrant (22%). Whites were equally as likely to experience an on-view arrest (21%) as Hispanics (19%) but less often than Blacks (30%). Males were arrested on-view (24%) at a slightly higher rate than females (15%).

**Figure 5. Marijuana arrests, by arrest type, 2012–2019**



Source: Colorado Bureau of Investigation, National Incident-Based Reporting System. Analyzed by the Division of Criminal Justice.  
 Note: On-view are custodial arrests without a warrant or previous incident report. Warrants are custodial arrests based on a warrant or previous incident report. Summons/citations are non-custodial arrests.

**Table 4. Marijuana arrests, by arrest type and demographics, 2012–2019**

|                           | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|---------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total</b>              |        |       |       |       |       |       |       |       |
| N arrests                 | 13,225 | 6,637 | 7,128 | 6,998 | 6,502 | 6,483 | 5,970 | 4,290 |
| On-view                   | 25%    | 20%   | 17%   | 17%   | 22%   | 23%   | 22%   | 22%   |
| Summons/citation          | 68%    | 74%   | 78%   | 78%   | 71%   | 70%   | 71%   | 70%   |
| Warrant                   | 7%     | 6%    | 5%    | 5%    | 7%    | 7%    | 7%    | 9%    |
| <b>Age group</b>          |        |       |       |       |       |       |       |       |
| <b>Under 18</b>           |        |       |       |       |       |       |       |       |
| N arrests                 | 3,265  | 3,122 | 3,379 | 3,019 | 2,648 | 2,701 | 2,573 | 2,064 |
| On-view                   | 10%    | 11%   | 11%   | 11%   | 14%   | 13%   | 13%   | 10%   |
| Summons/citation          | 86%    | 85%   | 85%   | 86%   | 82%   | 83%   | 83%   | 86%   |
| Warrant                   | 4%     | 4%    | 3%    | 3%    | 4%    | 4%    | 3%    | 4%    |
| <b>18 to 20</b>           |        |       |       |       |       |       |       |       |
| N arrests                 | 3,392  | 2,304 | 2,278 | 2,124 | 2,098 | 2,173 | 1,971 | 1,194 |
| On-view                   | 19%    | 21%   | 17%   | 18%   | 19%   | 19%   | 16%   | 20%   |
| Summons/citation          | 76%    | 74%   | 79%   | 79%   | 75%   | 77%   | 79%   | 75%   |
| Warrant                   | 5%     | 5%    | 4%    | 3%    | 6%    | 5%    | 4%    | 5%    |
| <b>21 or older</b>        |        |       |       |       |       |       |       |       |
| N arrests                 | 6,568  | 1,211 | 1,471 | 1,855 | 1,756 | 1,609 | 1,426 | 1,032 |
| On-view                   | 36%    | 41%   | 30%   | 27%   | 38%   | 44%   | 46%   | 46%   |
| Summons/citation          | 55%    | 46%   | 59%   | 64%   | 48%   | 39%   | 37%   | 32%   |
| Warrant                   | 9%     | 12%   | 11%   | 9%    | 14%   | 16%   | 17%   | 22%   |
| <b>Gender</b>             |        |       |       |       |       |       |       |       |
| <b>Male</b>               |        |       |       |       |       |       |       |       |
| N arrests                 | 10,716 | 5,379 | 5,626 | 5,529 | 5,056 | 4,937 | 4,344 | 3,175 |
| On-view                   | 26%    | 21%   | 18%   | 18%   | 24%   | 23%   | 24%   | 24%   |
| Summons/citation          | 67%    | 73%   | 76%   | 77%   | 69%   | 69%   | 68%   | 67%   |
| Warrant                   | 7%     | 6%    | 6%    | 5%    | 8%    | 8%    | 7%    | 9%    |
| <b>Female</b>             |        |       |       |       |       |       |       |       |
| N arrests                 | 2,509  | 1,258 | 1,502 | 1,469 | 1,446 | 1,546 | 1,626 | 1,115 |
| On-view                   | 23%    | 17%   | 12%   | 15%   | 17%   | 20%   | 16%   | 15%   |
| Summons/citation          | 71%    | 79%   | 84%   | 82%   | 77%   | 74%   | 78%   | 77%   |
| Warrant                   | 6%     | 5%    | 3%    | 3%    | 6%    | 6%    | 5%    | 8%    |
| <b>Race/ethnicity</b>     |        |       |       |       |       |       |       |       |
| <b>White non-Hispanic</b> |        |       |       |       |       |       |       |       |
| N arrests                 | 9,573  | 4,574 | 4,663 | 4,543 | 4,292 | 4,276 | 3,855 | 2,721 |
| On-view                   | 24%    | 19%   | 17%   | 17%   | 18%   | 19%   | 18%   | 21%   |
| Summons/citation          | 70%    | 75%   | 78%   | 79%   | 75%   | 74%   | 76%   | 72%   |
| Warrant                   | 7%     | 6%    | 5%    | 5%    | 7%    | 7%    | 6%    | 7%    |



|                         | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Hispanic</b>         |       |       |       |       |       |       |       |       |
| N arrests               | 2,455 | 1,396 | 1,603 | 1,615 | 1,476 | 1,510 | 1,514 | 1,112 |
| On-view                 | 28%   | 22%   | 18%   | 18%   | 27%   | 25%   | 25%   | 19%   |
| Summons/citation        | 63%   | 72%   | 76%   | 77%   | 64%   | 65%   | 65%   | 69%   |
| Warrant                 | 8%    | 6%    | 6%    | 5%    | 9%    | 10%   | 10%   | 12%   |
| <b>African-American</b> |       |       |       |       |       |       |       |       |
| N arrests               | 982   | 552   | 721   | 681   | 561   | 496   | 424   | 365   |
| On-view                 | 31%   | 24%   | 18%   | 20%   | 37%   | 36%   | 38%   | 30%   |
| Summons/citation        | 64%   | 73%   | 77%   | 78%   | 58%   | 58%   | 56%   | 63%   |
| Warrant                 | 6%    | 3%    | 5%    | 3%    | 5%    | 7%    | 6%    | 7%    |
| <b>Other</b>            |       |       |       |       |       |       |       |       |
| N arrests               | 215   | 115   | 141   | 159   | 173   | 201   | 177   | 30    |
| On-view                 | 27%   | 19%   | 12%   | 21%   | 31%   | 35%   | 46%   | 33%   |
| Summons/citation        | 65%   | 72%   | 82%   | 73%   | 61%   | 60%   | 47%   | 52%   |
| Warrant                 | 9%    | 9%    | 6%    | 6%    | 8%    | 4%    | 7%    | 15%   |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System. Analyzed by the Division of Criminal Justice.

Note: On-view are custodial arrests without a warrant or previous incident report. Warrants are custodial arrests based on a warrant or previous incident report. Summons/citations are non-custodial arrests.

### *Offense Location*

NIBRS captures information on the place an offense was reported to have occurred. There are 57 categories, including public transportation, bars, convenience stores, homes, parks/playgrounds, parking lots, primary/secondary schools, colleges, among others. Data for offenses grouped by place are presented in Table 5 and data for all places may be found in Appendix D.

Overall, the number of offenses decreased by 63%, from 12,794 in 2012 to 4,681 in 2019. The locations showing the largest drops were highway/road/street (-82%), retail site/bank/restaurant/bar (-53%), and private buildings (-59%). The locations with an increased number of offenses were college/university (+13%), elementary/secondary school (+17%), and private workplace (+113%).



**Table 5. Marijuana offenses, by location type, 2012–2019**

| Offense location                    | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|-------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| College/University                  | 519    | 448   | 465   | 600   | 570   | 809   | 754   | 588   |
| Elementary/Secondary School         | 1,010  | 1,390 | 1,654 | 1,358 | 1,236 | 1,138 | 1,339 | 1,183 |
| School/University historical        | 258    | -     | -     | -     | -     | -     | -     | -     |
| Highway/road/street                 | 6,796  | 2,226 | 2,194 | 2,221 | 2,051 | 1,930 | 1,629 | 1,202 |
| Public building                     | 84     | 48    | 43    | 49    | 41    | 60    | 57    | 50    |
| Public space                        | 1,401  | 780   | 951   | 1,034 | 905   | 810   | 690   | 485   |
| Private building                    | 1,635  | 611   | 706   | 725   | 846   | 868   | 849   | 670   |
| Retail site/bank/<br>restaurant/bar | 441    | 211   | 194   | 226   | 215   | 222   | 224   | 206   |
| Workplace                           | 78     | 49    | 55    | 61    | 73    | 86    | 106   | 166   |
| Other                               | 572    | 225   | 267   | 261   | 291   | 248   | 227   | 124   |
| Total                               | 12,794 | 5,988 | 6,529 | 6,535 | 6,228 | 6,171 | 5,875 | 4,681 |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System data. Analyzed by the Division of Criminal Justice.

Note: The location type of Secondary School/University (historical) was split up into specific categories of Elementary/Secondary School and College/University partway through 2012. It is not possible to determine the specific location in the historical data and so it is presented separately here.

## Marijuana Court Case Filings

The Colorado State Judicial Branch's data system<sup>23</sup> was queried for marijuana cases filed<sup>24</sup> between 2008 and 2019. The State Judicial data system captures information from county and district courts statewide, with the exception of Denver County Court. The data include information on statute, charge description, charge classification, judicial district, defendant age, and defendant race.<sup>25</sup> The charges were categorized according to the text entered into the charge description field. Filing data are based on a calendar year.

The number of marijuana-related case filings declined 55% between 2012 and 2019, from 9,925 to 4,489 (Table 6).<sup>26</sup> The age of defendants is grouped into three categories. Between 2012 and 2019, case filings declined 13% in the 10- to 17-year-old group; in the 18- to 20-year-old group, filings declined 52%; in the 21 and older age group, filings declined 67%. Males saw a 57% drop in total marijuana cases filed while females experienced a 44% decline from 2012 to 2019.

<sup>23</sup> Misdemeanor and petty offense charges from the City and County of Denver are not part of the statewide Judicial database and are therefore presented in a separate table. Felony charges from Denver are included.

<sup>24</sup> This includes charges under C.R.S. 12-43.4-901, 18-8-203, 18-13-122, 18-18-406 (excluding the subsections for synthetics and salvia), 18-18-414, and 42-4-1305.5).

<sup>25</sup> Judicial does not systematically collect Hispanic ethnicity and will not be used here. For example, upon examining the data for 2019, only 7% of defendants were characterized as Hispanic compared to 21% of the general population and 23% of the marijuana arrestee population.

<sup>26</sup> The overall totals and totals for those under 21 are higher than in the 2016 version of this report due to the addition of a minor in possession charge that was not included in the original 2016 query.



**Table 6. Cases with marijuana filings, by gender and age group, 2008-2019**

| Year | Total  | Gender |       |         | Age Group          |                    |                      |
|------|--------|--------|-------|---------|--------------------|--------------------|----------------------|
|      |        | Female | Male  | Unknown | 10-17<br>years old | 18-20<br>years old | 21 years<br>or older |
| 2008 | 11,761 | 1,968  | 9,757 | 36      | 1,755              | 3,093              | 6,887                |
| 2009 | 10,906 | 1,793  | 9,083 | 30      | 1,616              | 2,785              | 6,489                |
| 2010 | 10,108 | 1,729  | 8,342 | 37      | 1,640              | 2,451              | 6,003                |
| 2011 | 9,791  | 1,716  | 8,055 | 20      | 1,544              | 2,456              | 5,778                |
| 2012 | 9,925  | 1,786  | 8,114 | 25      | 1,624              | 2,381              | 5,903                |
| 2013 | 4,042  | 708    | 3,313 | 21      | 1,492              | 1,491              | 1,051                |
| 2014 | 4,618  | 859    | 3,725 | 34      | 1,532              | 1,578              | 1,505                |
| 2015 | 4,939  | 1,016  | 3,888 | 35      | 1,766              | 1,613              | 1,552                |
| 2016 | 4,919  | 965    | 3,935 | 19      | 1,497              | 1,622              | 1,792                |
| 2017 | 5,340  | 1,133  | 4,175 | 32      | 1,610              | 1,706              | 2,003                |
| 2018 | 5,219  | 1,224  | 3,977 | 18      | 1,660              | 1,556              | 1,998                |
| 2019 | 4,489  | 1,007  | 3,456 | 26      | 1,407              | 1,146              | 1,928                |

Source: Colorado State Judicial Branch. Analyzed by the Division of Criminal Justice.

The distribution of marijuana cases by most serious law classification is presented in Table 7. The percent of cases classified as felony increased from 10% in 2012 to 18% in 2018, while petty offenses decreased from 84% of cases in 2012 to 54% of cases in 2019. The traffic offense of possessing an open container of marijuana was implemented in 2014, and traffic cases now account for 22% of marijuana cases.

**Table 7. Cases with marijuana charge, by highest marijuana law class in case, 2008-2019**

| Year | Highest marijuana charge class |             |                  |         |        | Percent of cases |             |                  |         |  |
|------|--------------------------------|-------------|------------------|---------|--------|------------------|-------------|------------------|---------|--|
|      | Felony                         | Misdemeanor | Petty<br>offense | Traffic | Total  | Felony           | Misdemeanor | Petty<br>offense | Traffic |  |
| 2008 | 1,435                          | 776         | 9,549            | -       | 11,760 | 12%              | 7%          | 81%              | 0%      |  |
| 2009 | 1,412                          | 694         | 8,794            | -       | 10,900 | 13%              | 6%          | 81%              | 0%      |  |
| 2010 | 1,349                          | 637         | 8,120            | -       | 10,106 | 13%              | 6%          | 80%              | 0%      |  |
| 2011 | 1,018                          | 627         | 8,143            | -       | 9,788  | 10%              | 6%          | 83%              | 0%      |  |
| 2012 | 986                            | 595         | 8,341            | -       | 9,922  | 10%              | 6%          | 84%              | 0%      |  |
| 2013 | 628                            | 406         | 2,932            | 76      | 4,042  | 16%              | 10%         | 73%              | 2%      |  |
| 2014 | 418                            | 531         | 2,830            | 837     | 4,616  | 9%               | 12%         | 61%              | 18%     |  |
| 2015 | 585                            | 428         | 3,230            | 694     | 4,937  | 12%              | 9%          | 65%              | 14%     |  |
| 2016 | 792                            | 430         | 3,007            | 689     | 4,918  | 16%              | 9%          | 61%              | 14%     |  |
| 2017 | 947                            | 483         | 3,194            | 716     | 5,340  | 18%              | 9%          | 60%              | 13%     |  |
| 2018 | 869                            | 407         | 3,085            | 853     | 5,214  | 17%              | 8%          | 59%              | 16%     |  |
| 2019 | 806                            | 315         | 2,402            | 965     | 4,488  | 18%              | 7%          | 54%              | 22%     |  |

Source: Colorado State Judicial Branch. Analyzed by the Division of Criminal Justice.

The charge of marijuana possession underwent a change in 2014 with the addition of the specific charge of *possession of marijuana under the age of 21*. Consequently, examining the trend in possession filings requires adding both of these charges together prior 2015 since that was the first full year the new charge was consistently used.

Between 2012 and 2019 (Table 8), total possession filings dropped 63% (9,777 to 3,576), possession with intent to distribute was unchanged (526 to 530), distribution dropped 55% (497 to 224), manufacture increased 14% (534 to 608), and conspiracy decreased 35% (176 to 114). The number of offenses for possession under the age of 21 has shown considerable variation, with the 3,071 filings in 2019 being the lowest since it was fully parsed out as a unique offense in 2015.

**Table 8. Marijuana charges filed, by type of charge, 2008-2019**

| Year | Conspiracy | Manufac<br>ture | Distrib<br>ution | Possession<br>with<br>Intent | Possession | Public<br>consumption | Possession<br>under age<br>21 | Possession/<br>consumptio<br>n in vehicle |
|------|------------|-----------------|------------------|------------------------------|------------|-----------------------|-------------------------------|---|
| 2008 | 101        | 378             | 486              | 937                          | 10,998     | 126                   |                               |   |
| 2009 | 149        | 394             | 507              | 951                          | 10,756     | 179                   |                               |   |
| 2010 | 194        | 534             | 513              | 734                          | 9,924      | 204                   |                               |   |
| 2011 | 218        | 543             | 482              | 595                          | 9,580      | 202                   | 1                             |   |
| 2012 | 176        | 534             | 497              | 526                          | 9,777      | 218                   |                               |   |
| 2013 | 133        | 193             | 465              | 379                          | 3,701      | 259                   | 3                             | 94  |
| 2014 | 74         | 158             | 339              | 308                          | 2,859      | 327                   | 784                           | 1,030                                     |
| 2015 | 126        | 363             | 368              | 507                          | 1,406      | 223                   | 3,182                         | 883                                       |
| 2016 | 182        | 628             | 426              | 644                          | 957        | 175                   | 3,530                         | 835                                       |
| 2017 | 271        | 753             | 510              | 836                          | 998        | 241                   | 3,816                         | 870                                       |
| 2018 | 103        | 685             | 330              | 758                          | 761        | 144                   | 4,005                         | 1,008                                     |
| 2019 | 114        | 608             | 224              | 530                          | 505        | 90                    | 3,071                         | 1,129                                     |

Source: Colorado State Judicial Branch. Analyzed by the Division of Criminal Justice.

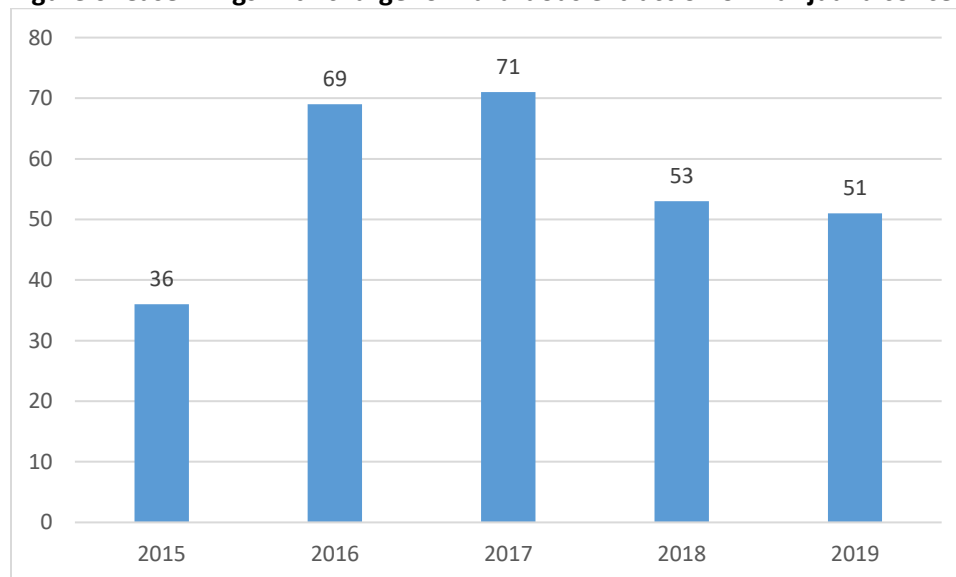
The number of charges based on level is presented in Table 9. The number of felony charges has varied considerably since legalization in 2012. There was a steep drop down to 759 in 2014, followed by a gradual increase from 2014 to 2017, with a recent decrease to 2019 (1,416) back to the level of 2015. Almost three-quarters of felony marijuana charges are dismissed prior to disposition. The number of misdemeanor filings has gradually decreased since legalization, reaching a low of 416 in 2019. Approximately three-fifths of those charges are dismissed prior to disposition. The number of petty offenses followed a similar trend to felonies, with an initial drop followed by an increase, then a recent drop in 2019. Petty offenses were dismissed about three-quarters of the time. Finally, there were some traffic offenses created regarding possession of an open container of marijuana. Those figures have hovered around 1,000 since full implementation in 2014.

**Table 9. Marijuana cases filed, by classification and percent dismissed, 2008–2019**

|      | Felonies    |               | Misdemeanors |               | Petty offenses |               | Traffic     |               | Total       |               |
|------|-------------|---------------|--------------|---------------|----------------|---------------|-------------|---------------|-------------|---------------|
|      | % dismissed | Total charges | % dismissed  | Total charges | % dismissed    | Total charges | % dismissed | Total charges | % dismissed | Total charges |
| 2008 | 73.5%       | 2,542         | 32.5%        | 1,257         | 75.7%          | 9,248         | --          | --            | 71.1%       | 13,048        |
| 2009 | 74.9%       | 2,554         | 32.3%        | 1,221         | 78.3%          | 9,161         | --          | --            | 73.3%       | 12,939        |
| 2010 | 76.4%       | 2,374         | 39.0%        | 1,126         | 79.6%          | 8,627         | --          | --            | 75.2%       | 12,128        |
| 2011 | 75.1%       | 1,989         | 47.5%        | 1,011         | 82.4%          | 8,624         | --          | --            | 78.1%       | 11,625        |
| 2012 | 80.7%       | 1,916         | 50.3%        | 1,000         | 84.1%          | 8,831         | --          | --            | 80.6%       | 11,750        |
| 2013 | 77.9%       | 1,259         | 48.5%        | 641           | 84.3%          | 3,241         | 91.5%       | 94            | 78.5%       | 5,235         |
| 2014 | 71.4%       | 759           | 59.0%        | 744           | 80.1%          | 3,345         | 80.7%       | 1,029         | 76.4%       | 5,880         |
| 2015 | 76.6%       | 1,305         | 62.2%        | 643           | 76.9%          | 4,232         | 82.3%       | 881           | 76.2%       | 7,063         |
| 2016 | 74.6%       | 1,781         | 64.7%        | 682           | 77.5%          | 4,088         | 82.5%       | 834           | 76.2%       | 7,386         |
| 2017 | 70.5%       | 2,323         | 64.4%        | 727           | 75.4%          | 4,394         | 83.1%       | 870           | 73.9%       | 8,314         |
| 2018 | 65.6%       | 1,813         | 56.8%        | 628           | 77.3%          | 4,352         | 81.9%       | 1,004         | 73.5%       | 7,802         |
| 2019 | --          | 1,416         | --           | 416           | --             | 3,314         | --          | 1,128         | --          | 6,276         |

Source: Colorado State Judicial Branch. Analyzed by the Division of Criminal Justice.

The number of court case filings for manufacturing concentrate (such as hash oil, wax, shatter) using an inherently hazardous substance, such as butane (C.R.S. 18-18-406.6, effective date July 1, 2015), is presented in Figure 6. There were 71 filings for hazardous manufacturing of concentrates in 2017 which dropped to 51 in 2019.

**Figure 6. Case filings with charge for hazardous extraction of marijuana concentrates, 2015–2019**

Source: Colorado State Judicial Branch. Analyzed by the Division of Criminal Justice.

Note: The law making the hazardous extraction of concentrates illegal became effective July 1, 2015.

### Organized Crime Charges

The number of court case filings in which the Colorado Organized Crime Control Act (COCCA) was charged in conjunction with a marijuana charge is presented in Table 10. One case filing can be associated with multiple charges, so the sum of charges will exceed the number of filings. The number of COCCA filings has fluctuated significantly, from 15 in 2012, 119 in 2017, down to 34 in 2019. The most common types of charges associated with COCCA filings were manufacture (n=36), distribution (n=15), and conspiracy (n=14).

**Table 10. Marijuana case filings associated with Colorado Organized Crime Control Act, 2008-2019**

|      | N COCCA case filings | Marijuana charges associated with COCCA case |             |              |                                |            |       |
|------|----------------------|--|-------------|--------------|--------------------------------|------------|-------|
|      |                      | Conspiracy                                   | Manufacture | Distribution | Possession with intent to sell | Possession | Other |
| 2008 | 3                    | 0  | 2           | 4            | 1                              | 0          | 0     |
| 2009 | 8                    | 2  | 1           | 2            | 5                              | 4          | 0     |
| 2010 | 18                   | 30   | 42          | 33           | 10                             | 1          | 6     |
| 2011 | 15                   | 77   | 9           | 32           | 34                             | 1          | 0     |
| 2012 | 31                   | 56   | 25          | 43           | 32                             | 4          | 0     |
| 2013 | 16                   | 21   | 26          | 24           | 1                              | 4          | 1     |
| 2014 | 1                    | 0  | 0           | 0            | 1                              | 0          | 0     |
| 2015 | 40                   | 61   | 108         | 59           | 60                             | 8          | 0     |
| 2016 | 81                   | 73   | 111         | 98           | 75                             | 15         | 0     |
| 2017 | 119                  | 148  | 145         | 145          | 125                            | 20         | 0     |
| 2018 | 13                   | 10   | 28          | 11           | 7                              | 0          | 0     |
| 2019 | 34                   | 14   | 36          | 15           | 12                             | 1          | 0     |

Source: Colorado State Judicial Branch. Analyzed by the Division of Criminal Justice.

Note: A single case filing can be associated with multiple charges, so the sum of charges will exceed the number of filings.

### Crime around Marijuana Establishments

The number of crimes around marijuana establishments is difficult to measure. Colorado does not have a statewide database that places all reported crimes at a specific location. The Denver Police Department began a project to review all reported crime to determine if there was a clear connection or relationship to marijuana. Additionally, the project identifies whether the crime was related to the marijuana industry or not.

The total number of industry-related crimes remained stable and made up a very small portion of overall crime in Denver (Table 11). The most common industry-related crime was burglary, which accounted for 58% of all industry-related crime in 2019. There has been concern that, due to the cash-only nature of the industry, robbery would be prevalent but this has not been the case.

The number of nonindustry-related marijuana crimes was small and has come down in recent years.

**Table 11. Marijuana crime in Denver, 2012–2019<sup>27</sup>**

|  | 2012       | 2013       | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          |
|--|------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Industry</b>                          |            |            |               |               |               |               |               |               |
| Burglary                                 | 134        | 102        | 114           | 117           | 170           | 82            | 118           | 121           |
| Theft                                    | 14         | 14         | 24            | 26            | 19            | 18            | 39            | 30            |
| Other property                           | 22         | 22         | 17            | 20            | 16            | 19            | 18            | 24            |
| Robbery                                  | 2          | 4          | 7             | 5             | 3             | 6             | 4             | 7             |
| Other person                             | 4          | 7          | 8             | 4             | 0             | 4             | 11            | 14            |
| Drug                                     | 0          | 1          | 1             | 11            | 6             | 2             | 6             | 2             |
| Other                                    | 1          | 4          | 2             | 3             | 0             | 8             | 6             | 10            |
| <b>Total</b>                             | <b>177</b> | <b>154</b> | <b>173</b>    | <b>186</b>    | <b>214</b>    | <b>139</b>    | <b>202</b>    | <b>208</b>    |
| <b>Non-industry</b>                      |            |            |               |               |               |               |               |               |
| Burglary                                 | 17         | 30         | 39            | 20            | 22            | 20            | 2             | 0             |
| Theft                                    | 10         | 12         | 19            | 15            | 8             | 5             | 4             | 6             |
| Other property                           | 2          | 4          | 1             | 0             | 3             | 2             | 0             | 2             |
| Robbery                                  | 19         | 20         | 27            | 23            | 17            | 15            | 10            | 4             |
| Other person                             | 4          | 10         | 12            | 11            | 8             | 8             | 2             | 8             |
| Drug                                     | 1          | 1          | 3             | 1             | 1             | 1             | 10            | 1             |
| Other                                    | 0          | 3          | 2             | 2             | 0             | 0             | 1             | 3             |
| <b>Total</b>                             | <b>53</b>  | <b>80</b>  | <b>103</b>    | <b>72</b>     | <b>59</b>     | <b>51</b>     | <b>29</b>     | <b>24</b>     |
| <b>Total</b>                             |            |            |               |               |               |               |               |               |
| Burglary                                 | 151        | 132        | 153           | 137           | 192           | 102           | 120           | 121           |
| Theft                                    | 24         | 26         | 43            | 41            | 27            | 23            | 43            | 36            |
| Other property                           | 24         | 26         | 18            | 20            | 19            | 21            | 18            | 26            |
| Robbery                                  | 21         | 24         | 34            | 28            | 20            | 21            | 14            | 11            |
| Other person                             | 8          | 17         | 20            | 15            | 8             | 12            | 13            | 22            |
| Drug                                     | 1          | 2          | 4             | 12            | 7             | 3             | 16            | 3             |
| Other                                    | 1          | 7          | 4             | 5             | 0             | 8             | 7             | 13            |
| <b>Total</b>                             | <b>230</b> | <b>234</b> | <b>276</b>    | <b>258</b>    | <b>273</b>    | <b>190</b>    | <b>231</b>    | <b>232</b>    |
| <b>Total criminal offenses in Denver</b> | <b>NA</b>  | <b>NA</b>  | <b>61,276</b> | <b>64,317</b> | <b>65,368</b> | <b>66,000</b> | <b>66,700</b> | <b>65,470</b> |

Source: Denver Open Data Catalog, Crime Marijuana, at <https://www.denvergov.org/opendata/dataset/city-and-county-of-denver-crime-marijuana>. Retrieved 12/1/2020. Denver Police Department Crime Statistics. <https://www.denvergov.org/content/denvergov/en/police-department/crime-information/crime-statistics-maps/crime-statistics-archives.html>

<sup>27</sup> Note from the Denver Police Department: “Data in this file are crimes reported to the Denver Police Department which, upon review, were determined to have clear connection or relation to marijuana. These data do not include police reports for violations restricting the possession, sale, and/or cultivation of marijuana. This dataset is based upon the National Incident Based Reporting System (NIBRS) which includes all victims of person crimes and all crimes within an incident. The data is dynamic, which allows for additions, deletions and/or modifications at any time, resulting in more accurate information in the database. Due to continuous data entry, the number of records in subsequent extractions are subject to change. Industry-related crimes involve marijuana and licensed marijuana facilities. These reported crimes are committed against the licensed industry or by the industry itself. Non-Industry crimes are crimes reported where marijuana is the primary target in the commission of these crime but the marijuana has no readily apparent tie to a licensed operation.”

The Denver Police Department changed its data system in 2013, therefore crime data prior to that time is not comparable.



## Traffic Safety

### Driving Under the Influence<sup>28</sup>

#### *Detection Issues*

It is difficult to gauge the scope of DUID offenses for a number of reasons. First, there is no criminal charge that specifies that the driver is impaired by drugs instead of, or in combination with, alcohol. The current statute applies to driving under the influence of alcohol, drugs, or a combination of the two.<sup>29</sup> Second, there is no central repository of toxicology results that would allow for an analysis of trends. Third, at a traffic stop, law enforcement may choose not to pursue additional toxicology testing if the driver is exhibiting indicia of impairment from alcohol. The additional time and cost required for further toxicology testing may not be considered worthwhile if the burden of proof for impairment is already being met by a BAC (blood alcohol content) level.

Colorado established a limit of 5 ng/mL of Delta 9-THC in whole blood that creates a permissible inference that a “defendant was under the influence of one or more drugs.”<sup>30</sup> After an arrest, if the officer has probable cause to believe the suspect is impaired by drugs and/or alcohol,<sup>31</sup> the officer may transfer the suspect to a location where blood can be drawn for further toxicology screening. The Delta-9 THC level in blood decreases rapidly in the first hour after use, then gradually thereafter, making prompt testing critical.<sup>32</sup>

Importantly, the findings below should be considered in light of the fact that the number of peace officers who have been trained to identify driving impairment from drugs other than alcohol has increased substantially in recent years. In 2012 there were 184 peace officers statewide trained as Drug Recognition Experts (DREs) and by 2020 there were 221 active DREs. Additionally, hundreds of additional peace officers have also received training in Advanced Roadside Impaired Driving Enforcement (ARIDE).

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<sup>28</sup> In 2017 the Colorado General Assembly enacted House Bill 1315, mandating the Division of Criminal Justice (DCJ) to collect and analyze specific data regarding driving under the influence of drugs and alcohol. It includes a requirement to report on the number of convictions with evidentiary test results indicating impairment by alcohol, marijuana, Schedule I drugs (C.R.S., 18-18-203), other drugs, or any combination of these. The most recent revision of this report is available at [https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI\\_HB17-1315.pdf](https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI_HB17-1315.pdf). Much of the information presented in this section is excerpted from this report.

<sup>29</sup> C.R.S. 42-4-1301.

<sup>30</sup> C.R.S. 42-4-1301 (6)(a)(IV).

<sup>31</sup> An officer may also transport a suspect for blood screening when alcohol is the only substance suspected. There are evidentiary breath alcohol testers available to law enforcement that are easy to administer and that are available in jails and some police stations.

<sup>32</sup> Atha, M. (2000). *Blood and urine drug testing for cannabinoids*, available at <http://www.idmu.co.uk/pdfs/drugtest.pdf>



**Figure 7. Certified Drug Recognition Experts in Colorado, 2006-2020**

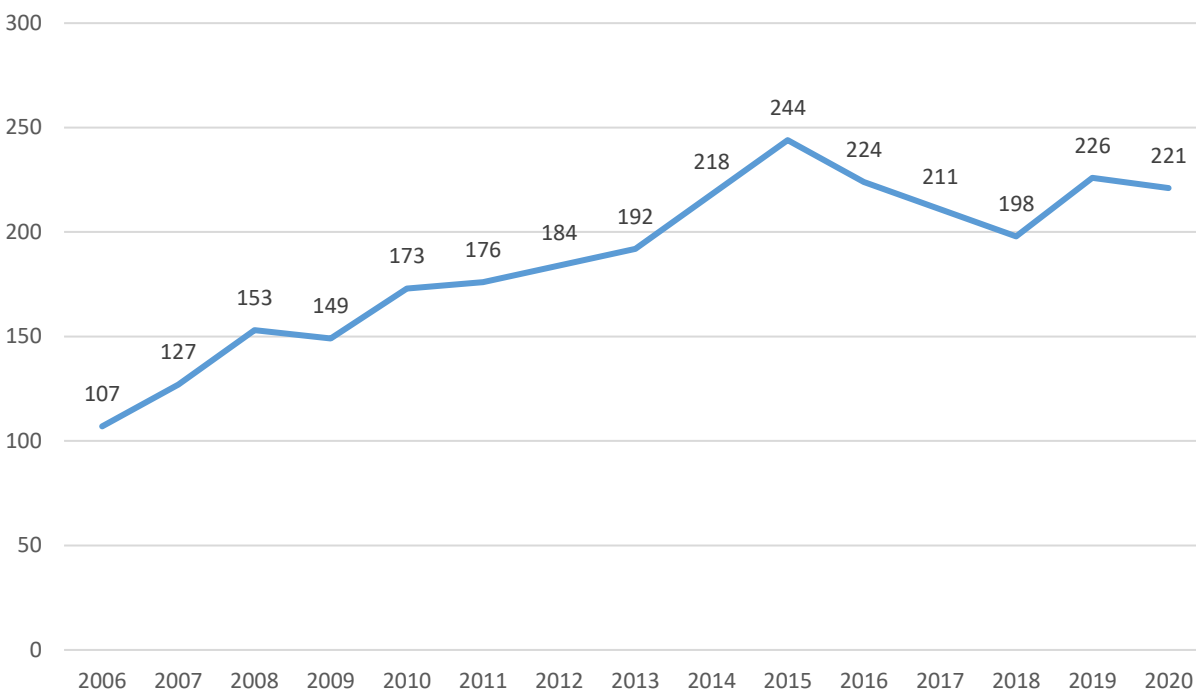
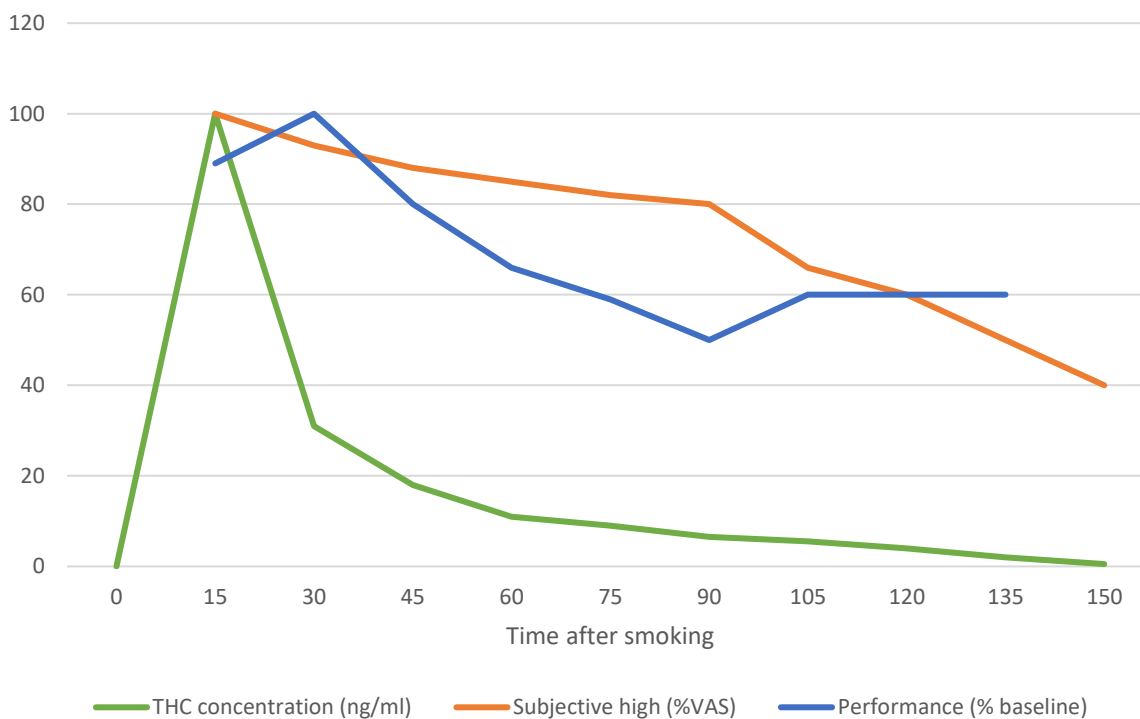


Figure 8 depicts results from a study that examined Delta-9 THC concentration, subjective high, and performance of subjects.<sup>33</sup> It shows that THC concentration peaks early, but the impairing effects on driving-related performance tasks and subjective high continue long after the peak concentration. This suggests that there are performance deficits that follow the peak of THC concentration. Furthermore, high THC concentration in whole-blood does not perfectly correspond to impairment.

<sup>33</sup> Berghaus et al. 1998, Sticht and Käferstein 1998, and Robbe 1994 as cited in Compton, R. (2017, July). *Marijuana-Impaired Driving - A Report to Congress*. (DOT HS 812 440). Washington, DC: National Highway Traffic Safety Administration.



**Figure 8. Time course of Delta-9 THC concentration, subjective high, and performance**

Source: Berghaus et al. (1998); Sticht and Käferstein (1998); and Robbe (1994) as cited in Compton (2017).

Further compounding the problem of linking whole blood concentrations of THC with impairment is the context of individual consumption. Karschner et al. (2009) found that chronic cannabis users had measurable concentrations of Delta-9 THC during a seven-day abstinence period. The highest level observed at the conclusion of the seven days was 3.0 ng/mL, as a result of THC being stored in fat and its ability to slowly release from the tissue.<sup>34</sup> This becomes a problem for frequent and medicinal users who may continuously have THC detectable in their blood without noticeable impairing effects.

Despite the complicated relationship between the pharmacokinetics of cannabis and impairment, there have been developments in oral fluid (OF) roadside tests to detect cannabis. The benefits of this exam are many, but there are also many caveats. The Society of Forensic Toxicologists indicated that OF concentrations of THC were correlated with blood levels after three hours, and one study found that passive exposure to cannabis may result in a positive OF screen.<sup>35, 36</sup> In a review of the literature, NHTSA indicated that these screening devices “have not been shown to be completely reliable and accurate” in

<sup>34</sup> Experimental protocol with abstinence monitored, not self-reported, on 25 subjects. See Karschner, E. L., Schwilke, E. W., Lowe, R. H., Darxin, D., Pope, H. G., Herring, R., Lud Cadet, J., & Huestis, M. A. (2009). Do  $\Delta^9$ -tetrahydrocannabinol concentrations indicate recent use in chronic cannabis users? *Addiction*, 104(12), 2041-2048. doi: 10.1111/j.1360-0443.2009.02705.x.

<sup>35</sup> See Oral Fluid FAQs document from the Society of Forensic Toxicologists at [http://www.soft-tox.org/files/2017\\_OF\\_FAQ.pdf](http://www.soft-tox.org/files/2017_OF_FAQ.pdf)

<sup>36</sup> Passive, non-smoking, participants showed some presence of THC in OF, but at much lower levels than observed for actively smoking participants and under extreme secondhand exposure. See Cone, E. J., Bigelow, G. E., Hermann, E. S., Mitchell, J. M., LoDico, C., Flegel, R., & Vandrey, R. (2015). Nonsmoker exposure to secondhand cannabis smoke. III. Oral fluid and blood drug concentrations and corresponding subjective effects. *Journal of Analytical Toxicology*, 39, 497-509. doi:10.1093/jat/bkv070.

its 2017 *Marijuana-Impaired Driving* report.<sup>37</sup> THC concentrations in OF fluid are known to have large variability among occasional and heavy users. Furthermore, the peak of THC concentration varies depending on the method of consumption, with higher concentrations and an initial spike in concentration when smoked as opposed to when ingested.

### Marijuana and Driving

The information in this section was excerpted from the study of impaired driving published pursuant to HB 17-1315, which analyzed data for 2018 and included some trend data for 2016-2018.<sup>38</sup> The number of cases where drivers were screened for cannabinoids increased from 3,946 (14.5% of all DUIs) in 2016 to 5,032 (19.2% of all DUIs) in 2018 (Table 12). The percent of screened cases testing positive at the initial cannabinoid screen went from 73.1% positive in 2016 to 66.3% in 2018. The cases which underwent confirmatory Delta-9 THC testing were stratified according their Delta-9 level. Consistently, around half of the cases tested at or above the 5 ng/mL “permissible inference” level while another one-third tested between 1.0-4.9 ng/mL. The median level of Delta-9 THC changed from 5.9 ng/mL in 2016 to 5.2 ng/mL in 2018. The mean level of Delta-9 THC has gone from 8.7 ng/mL in 2016 to 8.2 ng/mL in 2018.

**Table 12. Delta-9 THC groups for those with THC confirmation tests, 2016-2018**

|                            | 2016          | 2017          | 2018          |
|----------------------------|---------------|---------------|---------------|
| Total DUI cases filed      | 27,244        | 26,454        | 26,255        |
| N cannabinoid screens      | 3,946         | 4,792         | 5,032         |
| % positive for cannabinoid | 2,885 (73.1%) | 3,170 (66.2%) | 3,335 (66.3%) |
| N confirmed for Delta-9    | 2,885         | 3,170         | 3,335         |
| Delta 9-THC level n (%)    |               |               |               |
| None Detected              | 396 (13.7%)   | 431 (13.6%)   | 459 (13.8%)   |
| Present but <1.0           | 90 (3.1)      | 63 (2.0)      | 88 (2.6)      |
| 1.0-4.9                    | 1,030 (35.7)  | 1,069 (33.7)  | 1,134 (34.0)  |
| 5.0+                       | 1,369 (47.5)  | 1,607 (50.7)  | 1,654 (49.6)  |
| Median level (ng/mL)       | 5.9           | 5.4           | 5.2           |
| Mean level (ng/mL)         | 8.7           | 8.2           | 8.2           |

Rosenthal, A. & Reed, J. (2020). *Driving under the influence of drugs and alcohol: A report pursuant to House Bill 17-1315*. Lakewood, CO: Colorado Division of Criminal Justice. Available at [https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI\\_HB17-1315.pdf](https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI_HB17-1315.pdf)

### *Time to Marijuana Test*

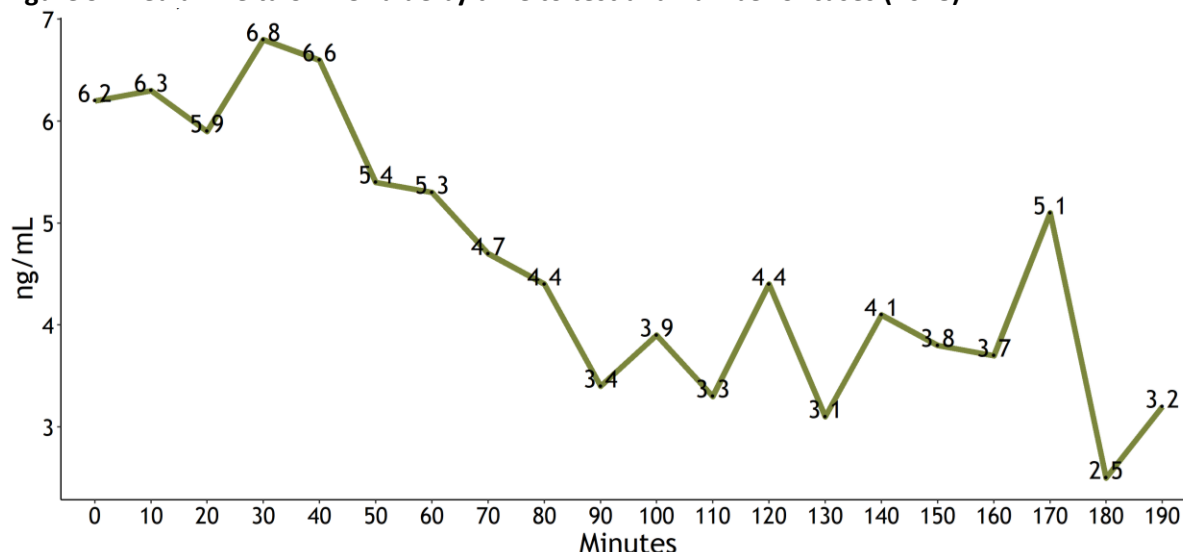
Time to blood draw by median Delta-9 THC values can be seen in Figure 9, including the number of cases at each time interval. Cases with an elapsed time of more than 200 minutes were excluded from the analysis. The majority of tests were completed at the 40- to 60-minute time intervals. Figure 10 reflects that mean and median Delta-9 THC levels were higher when the elapsed time to blood draw was

<sup>37</sup> Compton, R. (2017, July). *Marijuana-Impaired Driving - A Report to Congress*. (DOT HS 812 440). Washington, DC: National Highway Traffic Safety Administration. See <https://www.nhtsa.gov/sites/nhtsa.dot.gov/files/documents/812440-marijuana-impaired-driving-report-to-congress.pdf>

<sup>38</sup> Rosenthal, A. & Reed, J. (2020). *Driving under the influence of drugs and alcohol: A report pursuant to House Bill 17-1315*. Lakewood, CO: Colorado Division of Criminal Justice. Available at [https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI\\_HB17-1315.pdf](https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI_HB17-1315.pdf)

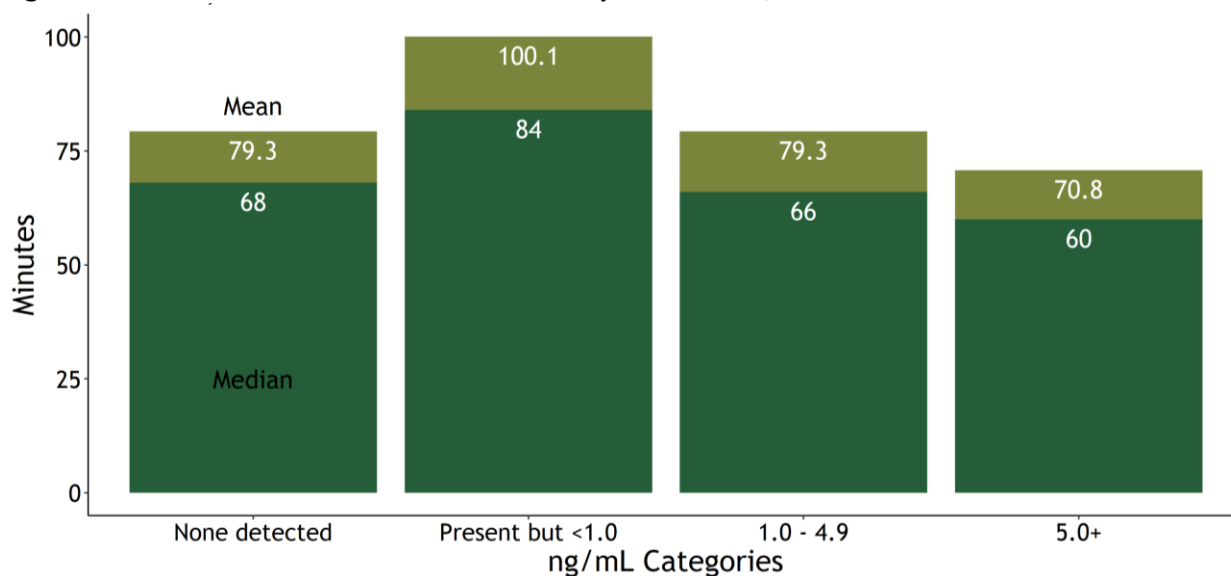
shorter, reflecting the dissipation of Delta-9 THC levels in the blood.

**Figure 9. Median Delta-9 THC value by time to test and number of cases (2018)**



Source: State Judicial Department, Denver County Court, and ChemaTox. Analyzed by the Division of Criminal Justice. Excerpted from Rosenthal, A. & Reed, J. (2020). *Driving under the influence of drugs and alcohol: A report pursuant to House Bill 17-1315*. Lakewood, CO: Colorado Division of Criminal Justice. Available at [https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI\\_HB17-1315.pdf](https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI_HB17-1315.pdf)

**Figure 10. Mean and median Delta-9 THC value by time-to-test, 2016-2018**



Source: State Judicial Department, Denver County Court, and ChemaTox, analyzed by the Division of Criminal Justice. Excerpted from Rosenthal, A. & Reed, J. (2020). *Driving under the influence of drugs and alcohol: A report pursuant to House Bill 17-1315*. Lakewood, CO: Colorado Division of Criminal Justice. Available at [https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI\\_HB17-1315.pdf](https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI_HB17-1315.pdf)

*Alcohol and Marijuana in Combination*

Table 13 shows both BAC cases, cannabinoid screens, and Delta-9 THC cases as a proportion of all DUI case filings, including case filings with no toxicology test match. The latter filings are included in Table 13

to show the frequency that cases were NOT tested when BAC is 0.08+. Specifically, 83.2% (n=10,550) of cases with BAC at 0.08+ were not further screened for cannabinoids. This contrasts with 8.5% (n=62) of those with no detectable alcohol and 48.8% (n=267) of cases with BAC < 0.05 that were not further screened for cannabinoids. Those with no BAC test and no cannabinoid screen either refused a test or were not matched during data analysis.

**Table 13. BAC group, cannabinoid screen, and THC group test outcome, 2018**

| BAC          | No Cannabinoid Screen | No Cannabinoid Detected | Delta-9 THC Confirmation Tests |                  |           |       | Total |        |
|--------------|-----------------------|-------------------------|--------------------------------|------------------|-----------|-------|-------|--------|
|              |                       |                         | No Delta-9 Detected            | Present but <1.0 | 1.0 - 4.9 | 5.0+  |       |        |
| No BAC test  | 84.1%                 | 4.0%                    | 1.0%                           | 0.3%             | 3.2%      | 7.4%  | 100%  | 11,104 |
| Not Detected | 8.5%                  | 29.2%                   | 9.4%                           | 2.3%             | 19.4%     | 31.2% | 100%  | 727    |
| < 0.05       | 48.8%                 | 14.4%                   | 5.4%                           | *                | 11.5%     | 20.0% | 100%  | 521    |
| 0.05 - 0.079 | 83.0%                 | 6.1%                    | 1.4%                           | *                | 3.9%      | 5.6%  | 100%  | 1,224  |
| 0.08 +       | 83.2%                 | 7.0%                    | 1.8%                           | 0.3%             | 4.2%      | 3.4%  | 100%  | 12,674 |
| Total        | 80.8%                 | 6.5%                    | 1.7%                           | 0.3%             | 4.3%      | 6.3%  | 100%  | 26,255 |

Source: State Judicial Department, Denver County Court, and ChemaTox. Analyzed by the Division of Criminal Justice. Excerpted from Rosenthal, A. & Reed, J. (2020). *Driving under the influence of drugs and alcohol: A report pursuant to House Bill 17-1315*. Lakewood, CO: Colorado Division of Criminal Justice. Available at [https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI\\_HB17-1315.pdf](https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI_HB17-1315.pdf)

### *Polydrug use*

In this analysis, "drugs" are presented in three categories: alcohol, THC, and "other drug," which includes illicit drugs and prescription drugs. Of the 16,943 cases where toxicology tests were conducted for alcohol as well as other drugs, the vast majority (84.4%) of suspects were found to have one drug present, while 14.5% cases had more than one drug present (see Table 14). A very small percentage (1.0%) of toxicology results showed no drug detected -- i.e., no alcohol, THC or other drugs. Polydrug use is the detection of any amount of two or more drugs in a toxicology test. Again, please note that polydrug use is likely underrepresented because, when alcohol is obviously present, many officers do not request further drug testing due to the cost and time associated with additional testing.

Alcohol was the primary substance detected for those with one drug present, followed by marijuana and, finally, other drugs. Of those cases with only one drug present, 89.2% of cases had alcohol only present compared to 7.5% of cases with only marijuana present. However, note that not all alcohol tests had a drug screen and not all drugs are included in a drug screen.

When further examining the 2,471 cases with polydrug use, 42.0% were a combination of alcohol and marijuana and 20.5% involved marijuana and an additional drug. Another 11.1% of polydrug cases involved alcohol, marijuana, and at least one other drug. Over half (53.2%) of all polydrug records had both alcohol and Delta-9 THC present (see Table 14).

Again, these results should be interpreted cautiously because of the practice of limited drug testing when the presence of alcohol is obvious to the arresting officer.

**Table 14. Presence of any drug and polydrug use, 2016-2018**

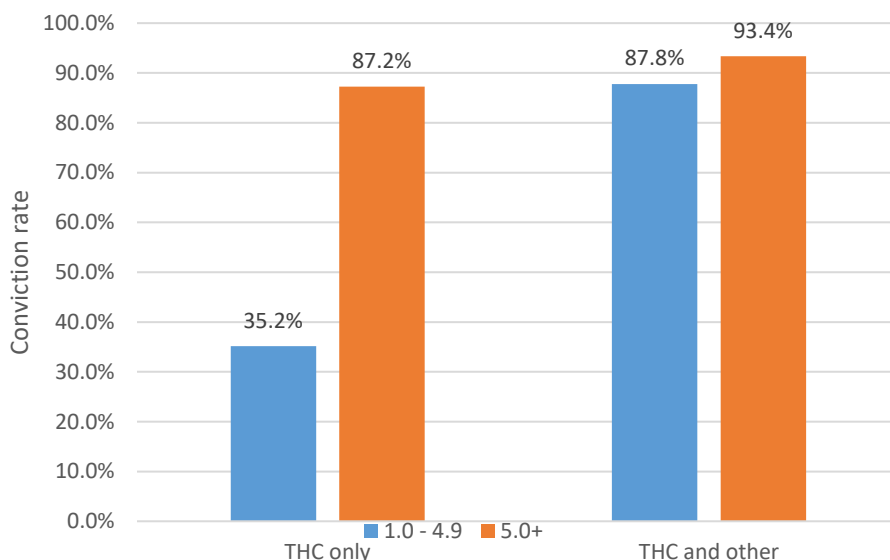
|          |                                     | 2016                 | 2017                 | 2018                 |
|----------|-------------------------------------|----------------------|----------------------|----------------------|
|          | <b>Total n</b>                      | <b>17,824</b>        | <b>17,479</b>        | <b>16,943</b>        |
|          | Drug Category n (%)                 |                      |                      |                      |
| No Drug  | <b>None Detected</b>                | <b>165 (0.9%)</b>    | <b>170 (1.0%)</b>    | <b>174 (1.0%)</b>    |
| One Drug | Alcohol Only                        | 14,052 (78.8)        | 13,449 (76.9)        | 12,755 (75.3)        |
|          | Delta 9-THC Only                    | 957 (5.4)            | 1,083 (6.2)          | 1078 (6.4)           |
|          | Single Other Drug                   | 386 (2.2)            | 415 (2.4)            | 465 (2.7)            |
|          | <b>n</b>                            | <b>15,395 (86.4)</b> | <b>14,947 (85.5)</b> | <b>14,298 (84.4)</b> |
| Polydrug | Alcohol and Delta 9-THC             | 829 (4.7)            | 958 (5.5)            | 1039 (6.1)           |
|          | Alcohol and Other                   | 380 (2.1)            | 430 (2.5)            | 414 (2.4)            |
|          | Delta 9-THC and Other               | 469 (2.6)            | 447 (2.6)            | 507 (3.0)            |
|          | Alcohol, Delta 9-THC, and Other     | 234 (1.3)            | 251 (1.4)            | 276 (1.6)            |
|          | Polydrug Not Alcohol or Delta 9-THC | 352 (2.0)            | 276 (1.6)            | 235 (1.4)            |
|          | <b>n</b>                            | <b>2,264 (12.7)</b>  | <b>2,362 (13.6)</b>  | <b>2,471 (14.5)</b>  |

Source: State Judicial Department, Denver County Court, and ChemaTox. Analyzed by the Division of Criminal Justice. Excerpted from Rosenthal, A. & Reed, J. (2020). *Driving under the influence of drugs and alcohol: A report pursuant to House Bill 17-1315*. Lakewood, CO: Colorado Division of Criminal Justice. Available at [https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI\\_HB17-1315.pdf](https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI_HB17-1315.pdf)

### *Marijuana and DUI Dispositions*

Figure 11 shows the dispositions of DUI charges with a Delta-9 THC confirmation test and final case disposition (n=2,687). As with the previous table, this information includes all other charges that were amended, but does not show the specific disposition of final charges that were not DUI charges. In cases where Delta-9 THC was found without any additional drugs, the conviction rate was much higher when the amount of Delta-9 THC was above the 5.0 ng/mL permissible inference level (87.2%) than when it was below that level (35.2%). When other substances were present concurrently with the THC, the conviction rates were similar regardless of THC level.

**Figure 11. Conviction rate in cases with Delta-9 THC, by single/polydrug status and THC level**



Source: State Judicial Department, Denver County Court, and ChemaTox. Analyzed by the Division of Criminal Justice. Excerpted from Rosenthal, A. & Reed, J. (2020). *Driving under the influence of drugs and alcohol: A report pursuant to House Bill 17-1315*. Lakewood, CO: Colorado Division of Criminal Justice. Available at [https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI\\_HB17-1315.pdf](https://cdpsdocs.state.co.us/ORS/Docs/Reports/2020-DUI_HB17-1315.pdf)

## Colorado State Patrol

The Colorado State Patrol (CSP) accounted for about 25% of all arrests for driving under the influence in Colorado in 2020.<sup>39</sup> CSP began collecting information on the perceived impairing substance(s) of drivers at the beginning of 2014. CSP has the most drug recognition experts of any law enforcement agency in the state, with 49 (7% of all sworn personnel) as of 2021. Additionally, the CSP trains all troopers in Advanced Roadside Impairment Detection Enforcement, which improves their ability to detect impairment from drugs other than alcohol or polydrug impairment that includes alcohol. These factors combine to make CSP a good agency to use as a benchmark for issues related to impaired driving in Colorado.

According to the data collected by the State Patrol, the total number of reported DUIs dropped 16% between 2014 (5,705) and 2020 (4,805) (Table 15). Summonses in which alcohol was the only substance decreased by 45% (4,820 in 2014 to 2,670 in 2020). The number of summonses in which marijuana-alone or marijuana-in-combination was recorded increased by 120% between 2014 (n=684) and 2020 (n=1,508). The prevalence of marijuana alone increased from 6.3% in 2014 to 8.7% in 2020. The percentage of marijuana polydrug (marijuana and alcohol or marijuana and other drugs) as the perceived impairing substance increased from 5.7% of all DUIs in 2014 to 22.7% in 2020.

<sup>39</sup> Colorado Bureau of Investigation (2021). *Colorado Crime Statistics, DUI/Drugs 2020*  
<https://coloradocrimestats.state.co.us/tops/report/drugs-dui/colorado/2020>

**Table 15. Driving under the influence citations issued by Colorado State Patrol, by perceived impairing substance, 2014–2020**

|                            | 2014         | 2015         | 2016         | 2017         | 2018         | 2019         | 2020         |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| N citations                | 5,705        | 4,898        | 4,605        | 4,858        | 5,168        | 5,245        | 4,805        |
| Marijuana only             | 359          | 335          | 388          | 336          | 426          | 391          | 417          |
| Marijuana & alcohol        | 213          | 210          | 239          | 217          | 469          | 455          | 865          |
| Marijuana & other drugs    | 112          | 107          | 153          | 169          | 190          | 193          | 226          |
| Other drugs only           | 201          | 204          | 245          | 259          | 536          | 477          | 627          |
| Alcohol only               | 4,820        | 4,042        | 3,580        | 3,877        | 3,258        | 3,729        | 2,670        |
| Unknown impairment         | 0            | 0            | 0            | 0            | 289          | 0            | 0            |
| <b>Marijuana-involved*</b> | <b>684</b>   | <b>652</b>   | <b>780</b>   | <b>722</b>   | <b>1,085</b> | <b>1,039</b> | <b>1,508</b> |
| <b>% citations</b>         |              |              |              |              |              |              |              |
| Marijuana only             | 6.3%         | 6.8%         | 8.4%         | 6.9%         | 8.2%         | 7.5%         | 8.7%         |
| Marijuana & alcohol        | 3.7%         | 4.3%         | 5.2%         | 4.5%         | 9.1%         | 8.7%         | 18.0%        |
| Marijuana & other drugs    | 2.0%         | 2.2%         | 3.3%         | 3.5%         | 3.7%         | 3.7%         | 4.7%         |
| Other drugs only           | 3.5%         | 4.2%         | 5.3%         | 5.3%         | 10.4%        | 9.1%         | 13.0%        |
| Alcohol only               | 84.5%        | 82.5%        | 77.7%        | 79.8%        | 63.0%        | 71.1%        | 55.6%        |
| Unknown impairment         | --           | --           | --           | --           | 5.6%         | --           | --           |
| <b>Marijuana-involved*</b> | <b>12.0%</b> | <b>13.3%</b> | <b>16.9%</b> | <b>14.9%</b> | <b>21.0%</b> | <b>19.9%</b> | <b>31.4%</b> |

Source: Colorado State Patrol (2020).

Note: Impairment type is based on the trooper's assessment at the time of the citation and may not reflect toxicology results.

\*Includes impairment from marijuana only, marijuana and alcohol, and marijuana and other drugs.

### *Mandated Treatment for Driving Under the Influence*

Drivers convicted of driving under the influence in Colorado are mandated to attend approved treatment classes before their driver's license privileges can be reinstated. When they are admitted into treatment, the primary substance of use is captured in the Drug/Alcohol Coordinated Data System (DACODS). The proportion of individuals participating in DUI treatment with alcohol as the primary substance declined from 93% in 2012 to 84% in 2019. During that same time, clients reporting marijuana as their primary substance of use increased from 5% to 12% of DUI admissions (Table 16).

**Table 16. Treatment admissions for DUI, by primary substance of use, 2008–2019**

|      | Total DUI treatment | Primary drug |         |                | Percent primary drug |         |                |
|------|---------------------|--------------|---------|----------------|----------------------|---------|----------------|
|      |                     | Marijuana    | Alcohol | Any other drug | Marijuana            | Alcohol | Any other drug |
| 2008 | 33,600              | 1,308        | 31,751  | 541            | 4%                   | 94%     | 2%             |
| 2009 | 32,989              | 1,312        | 31,226  | 451            | 4%                   | 95%     | 1%             |
| 2010 | 29,356              | 1,306        | 27,566  | 484            | 4%                   | 94%     | 2%             |
| 2011 | 27,652              | 1,444        | 25,657  | 551            | 5%                   | 93%     | 2%             |
| 2012 | 27,860              | 1,487        | 25,779  | 594            | 5%                   | 93%     | 2%             |
| 2013 | 28,027              | 1,675        | 25,662  | 690            | 6%                   | 92%     | 2%             |
| 2014 | 29,454              | 1,910        | 26,797  | 747            | 6%                   | 91%     | 3%             |
| 2015 | 28,883              | 2,207        | 25,841  | 835            | 8%                   | 89%     | 3%             |
| 2016 | 27,018              | 2,377        | 23,826  | 815            | 9%                   | 88%     | 3%             |
| 2017 | 24,700              | 2,370        | 21,379  | 951            | 10%                  | 87%     | 4%             |
| 2018 | 23,471              | 2,534        | 19,998  | 939            | 11%                  | 85%     | 4%             |
| 2019 | 21,715              | 2,634        | 18,186  | 895            | 12%                  | 84%     | 4%             |

Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.

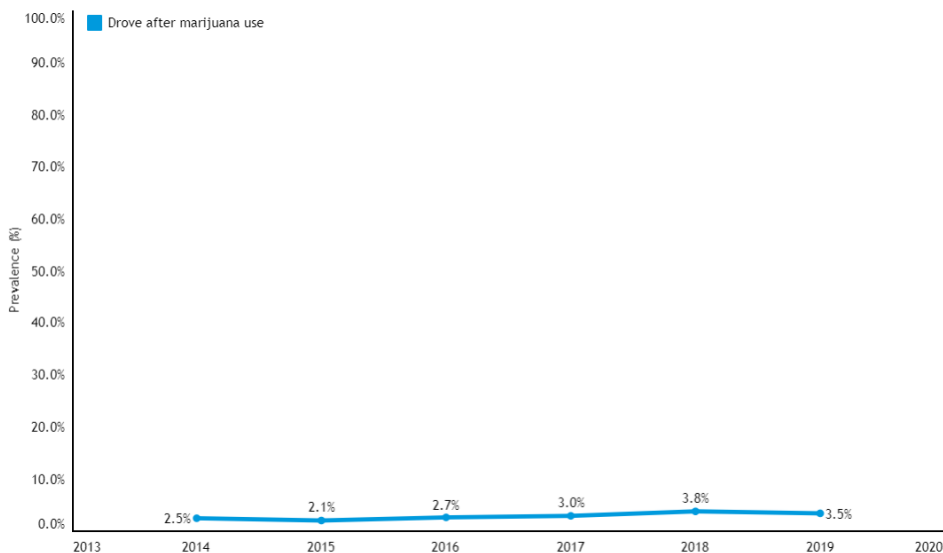
### *Reported Driving Behavior*

Driving within two- to three-hours of marijuana use is a behavior asked about on the Behavioral Risk Factor Surveillance System survey.<sup>40</sup> Between 2% and 4% of adults reported driving within two- to three-hours of using marijuana, and there was a statistically significant change in this behavior between 2014 and 2019 (Figure 12). Figure 13 presents the results for those who reported current use of marijuana, with between 16% and 22% of adult users reporting driving within two- to three-hours of using marijuana. Again, there was no consistent change in this finding over time.

<sup>40</sup> For more information on this survey, please see *Section Three: Impact on Public Health and Behavioral Health Services*.



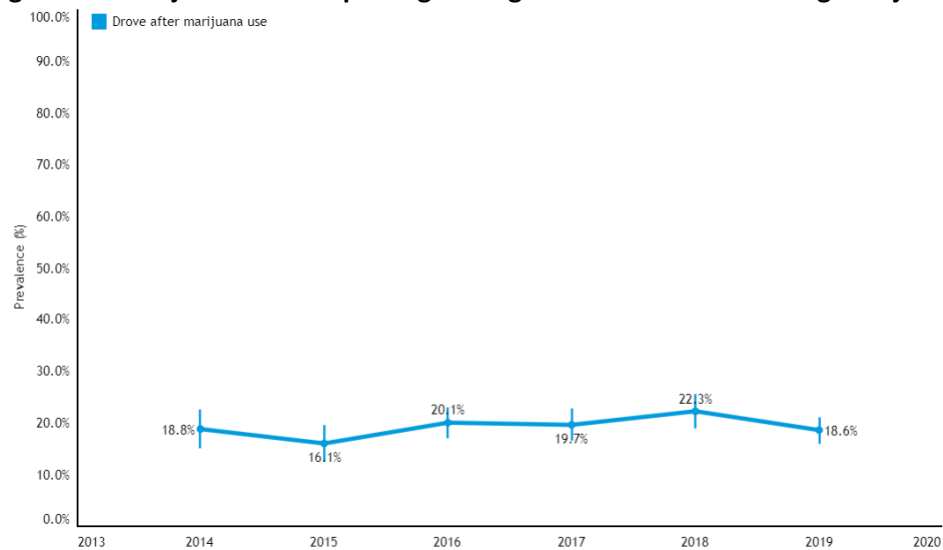
**Figure 12. Adults reporting driving within 2-3 hours of using marijuana, 2014–2019**



**Figure Notes:**  
Denominator includes respondents that answered past 30 day use and missing, don't know, and refused answers are removed in prevalence calculation

Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

**Figure 13. Marijuana users reporting driving within 2-3 hours of using marijuana, 2014–2019**



**Figure Notes:**  
Denominator includes respondents that answered past 30 day use and missing, don't know, and refused answers are removed in prevalence calculation

Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

*Fatality Analysis Reporting System*

The Fatality Analysis Reporting System (FARS) is a program administered federally by the National Highway Traffic Safety Administration and statewide by the Colorado Department of Transportation (CDOT). FARS contains data derived from a census of fatal traffic crashes within the 50 states, the

District of Columbia, and Puerto Rico. To be included in FARS, a crash must involve a motor vehicle traveling on a traffic way customarily open to the public and must result in the death of at least one person (occupant of a vehicle or a non-motorist) within 30 days of the crash.

The FARS database includes 143 data elements that characterize the crash, the vehicles, and the people involved.<sup>41</sup> FARS includes information from toxicology testing of drivers and others involved in the crash when available. For the period of 2013-2019, the percentage of drivers tested for drugs remained consistent, at between 45% and 47%, according to information provided by CDOT. The status of the driver has an impact on testing prevalence, with 89% of deceased drivers tested compared to 16% of living drivers in 2019 (data not presented). This limits conclusions that can be drawn about the prevalence of DUID in Colorado.

Additionally, in 2013, the Rocky Mountain High Intensity Drug Trafficking Area (RMHIDTA) began working with CDOT to enhance the collection of toxicology data. In 2012, 9% of drivers had a drug test conducted, but the results were not reported to CDOT. The partnership between CDOT and RMHIDTA, where additional contact was made with coroners or law enforcement to obtain results, has virtually eliminated this problem of missing data. This improvement in the completeness of Colorado's FARS data, however, makes comparisons to years prior to 2013 difficult.

The type of testing reported also precludes making any definitive statements about driver impairment. The primary compound in cannabis that produces psychoactive effects is Delta-9-THC, which begins to dissipate in blood rapidly after consumption. There are other active metabolites of THC (11-OH-THC) which dissipate quickly and inactive metabolites (THC-COOH) that are detectable in blood for longer periods of time.<sup>42</sup> It is not always possible to tell in the FARS data if the test detected psychoactive Delta-9-THC or the other metabolites of THC.

Information regarding the number of fatalities, drivers, and crashes, and the prevalence of drug and alcohol testing, is presented in Table 17. A little less than half of drivers (45%-47%) involved in fatal crashes were tested for alcohol and/or drugs. However, in about two-thirds of crashes there was at least one driver tested.

The number and percent of fatalities where the driver was impaired at a BAC  $\geq$  .08 is presented in Table 18. In 2019, a little over one-quarter (27%) of fatalities occurred when a driver was legally impaired by alcohol. The percent of fatalities with drivers who tested positive for Delta-9 THC at the 5 ng/mL level was 13% in 2019 (Table 19). It should be noted that the improved reporting for the specific level of Delta-9 THC occurred in 2016, which makes comparison to prior years invalid.

<sup>41</sup> National Highway Traffic Safety Administration (2014), Fatality Analysis Reporting System, at <http://www-nrd.nhtsa.dot.gov/Pubs/811992.pdf>

<sup>42</sup> Huestis, M., Henningfield, J., and Cone, E. (1992). Blood cannabinoids I: Absorption of THC and formation of 11-OH-THC and THC-COOH during and after marijuana smoking, *Journal of analytical toxicology*, 16, 276-282. Available at [https://www.researchgate.net/publication/21817925\\_Blood\\_cannabinoids\\_I\\_absorption\\_of\\_THC\\_and\\_formation\\_of\\_11-OH-THC\\_and\\_THC-COOH\\_during\\_and\\_after\\_marijuana\\_smoking](https://www.researchgate.net/publication/21817925_Blood_cannabinoids_I_absorption_of_THC_and_formation_of_11-OH-THC_and_THC-COOH_during_and_after_marijuana_smoking)



**Table 17. Colorado roadway fatalities' testing summary, 2013–2019**

|  | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|------|------|------|------|------|------|------|
| Fatalities   | 481  | 488  | 546  | 608  | 648  | 632  | 596  |
| Fatalities with at least one driver drug tested      | 313  | 318  | 369  | 403  | 439  | 429  | 416  |
| % fatalities with at least one driver drug tested    | 65%  | 65%  | 68%  | 66%  | 68%  | 68%  | 70%  |
| Fatalities with at least one driver alcohol tested   | 345  | 338  | 391  | 414  | 448  | 435  | 428  |
| % fatalities with at least one driver alcohol tested | 72%  | 69%  | 72%  | 68%  | 69%  | 69%  | 72%  |
| Drivers  | 627  | 684  | 787  | 880  | 940  | 890  | 866  |
| Drivers drug tested                                  | 294  | 310  | 361  | 386  | 439  | 426  | 405  |
| % drivers drug tested                                | 47%  | 45%  | 46%  | 45%  | 47%  | 48%  | 47%  |
| Drivers alcohol tested                               | 337  | 339  | 397  | 408  | 455  | 443  | 422  |
| % drivers alcohol tested                             | 54%  | 50%  | 50%  | 46%  | 48%  | 50%  | 49%  |
| Crashes  | 431  | 451  | 506  | 558  | 600  | 588  | 544  |
| Crashes with at least one driver drug tested         | 274  | 286  | 334  | 357  | 396  | 392  | 370  |
| % crashes with at least one driver drug tested       | 64%  | 63%  | 66%  | 64%  | 66%  | 67%  | 68%  |
| Crashes with at least one driver alcohol tested      | 304  | 305  | 356  | 369  | 405  | 399  | 382  |
| % crashes with at least one driver alcohol tested    | 71%  | 68%  | 70%  | 67%  | 68%  | 68%  | 70%  |

Source: Colorado Department of Transportation, Data Intelligence Group, Toxicology Data (2020).  
Note: There is overlap in drivers tested for both alcohol and drugs.

**Table 18. Colorado fatalities with drivers BAC ≥ .08, 2013–2019**

|                               | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|-------------------------------|------|------|------|------|------|------|------|
| Total fatalities              | 481  | 488  | 546  | 608  | 648  | 632  | 596  |
| N fatalities driver BAC ≥ .08 | 142  | 160  | 151  | 161  | 171  | 184  | 164  |
| % fatalities driver BAC ≥ .08 | 30%  | 33%  | 28%  | 27%  | 26%  | 30%  | 27%  |

Source: National Highway Traffic Safety Administration, *Traffic Safety Facts: State Alcohol-Impaired Driving Estimates; Overview of Motor Vehicle Crashes in 2019* (2020).  
Note: NHTSA statistically imputes BAC results for drivers with missing tests, which allows them to base percentages on all fatalities rather than just those with a reported test. The final NHTSA estimates will not match the results from the raw toxicology data provided by CDOT and NHTSA.

**Table 19. Colorado fatalities with driver's Delta-9 THC level ≥ 5ng/ml, 2016–2019**

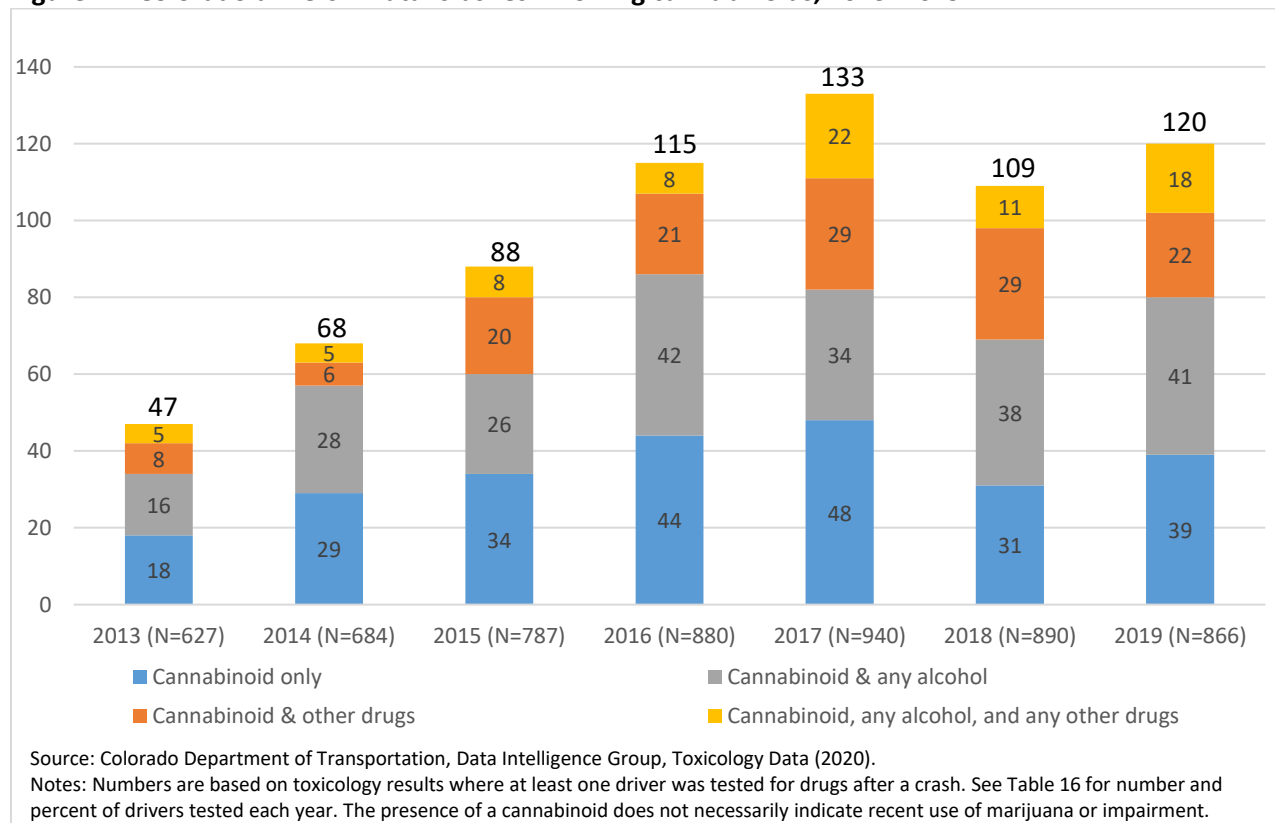
|   | 2016 | 2017 | 2018 | 2019 |
|---|------|------|------|------|
| Fatalities with at least one driver drug tested | 403  | 439  | 429  | 416  |
| N fatalities driver Delta-9 THC level ≥ 5ng/ml  | 52   | 35   | 42   | 56   |
| % fatalities driver Delta-9 THC level ≥ 5ng/ml  | 14%  | 8%   | 10%  | 13%  |

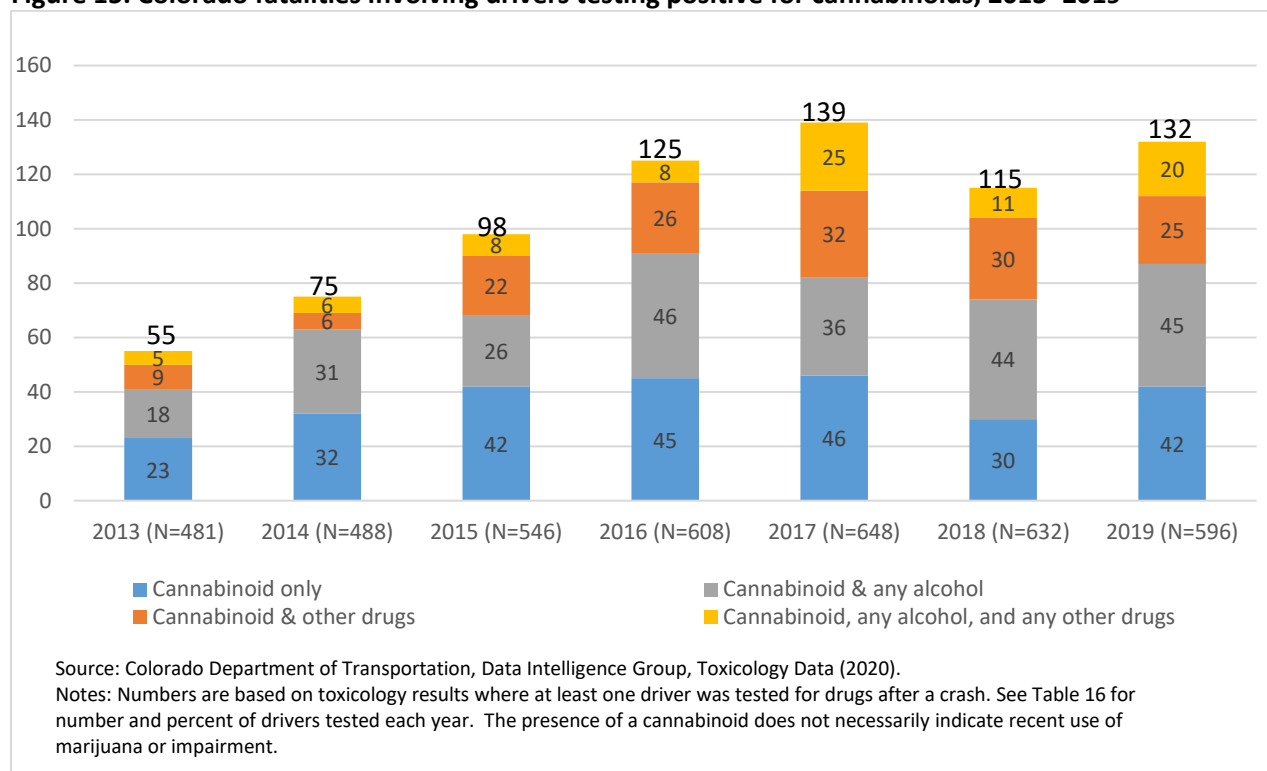
Source: Colorado Department of Transportation, Data Intelligence Group, Toxicology Data (2020).  
Note: a) Percentages are based only on fatal crashes where at least one driver in the crash was drug tested, b) Delta-9 THC level established in C.R.S. 42-4-1301 (6)(a) (IV) states "If at such time the driver's blood contained five nanograms or more of delta 9-tetrahydrocannabinol per milliliter in whole blood, as shown by analysis of the defendant's blood, such fact gives rise to a permissible inference that the defendant was under the influence of one or more drugs."

Reporting by CDOT regarding whether a driver in a fatal crash tested positive for a cannabinoid has been consistent since 2013. It is important to remember that presence of a cannabinoid does not indicate impairment from marijuana. The number of drivers testing positive for cannabinoid-only or cannabinoid-in-combination increased from 47 in 2013 to 120 in 2019 (Figure 14). The number of drivers in fatal crashes testing positive for cannabinoid-only increased from 18 to 39 during that same period. The percentage of drug-tested drivers who tested positive for some cannabinoid (alone or in combination with some other drug) increased from 16% in 2013 to 30% in 2019. However, only about half of all drivers involved in fatal crashes were tested for drugs.

The number of fatalities in which the driver tested positive for cannabinoid-only or cannabinoid-in-combination increased from 55 in 2013 to 132 in 2019 (Figure 15). The number of fatalities in which the driver tested positive for cannabinoid-only increased from 23 in 2013 to 42 in 2019. The percentage of all fatalities with a cannabinoid positive (alone or in combination) driver increased from 18% in 2013 to 32% in 2019. Again, it should be noted that only about half of all drivers were tested for drugs.

**Figure 14. Colorado drivers in fatal crashes involving cannabinoids, 2013–2019**



**Figure 15. Colorado fatalities involving drivers testing positive for cannabinoids, 2013–2019**

In 2016, CDOT improved data collection on the specific metabolites present in the blood of drivers, especially Delta-9 THC. Figure 16 presents the 2016 through 2019 data on drivers with Delta-9 THC detected in their blood. The number of drivers with *any* detectable Delta-9 THC increased from 71 (18% of tested drivers) in 2016 to 94 (23% of tested drivers) in 2019. However, when the drivers who test positive at the 5 ng/mL level were examined separately, there were 49 (12% of tested drivers) who tested positive at the 5 ng/mL<sup>43</sup> level in 2019.

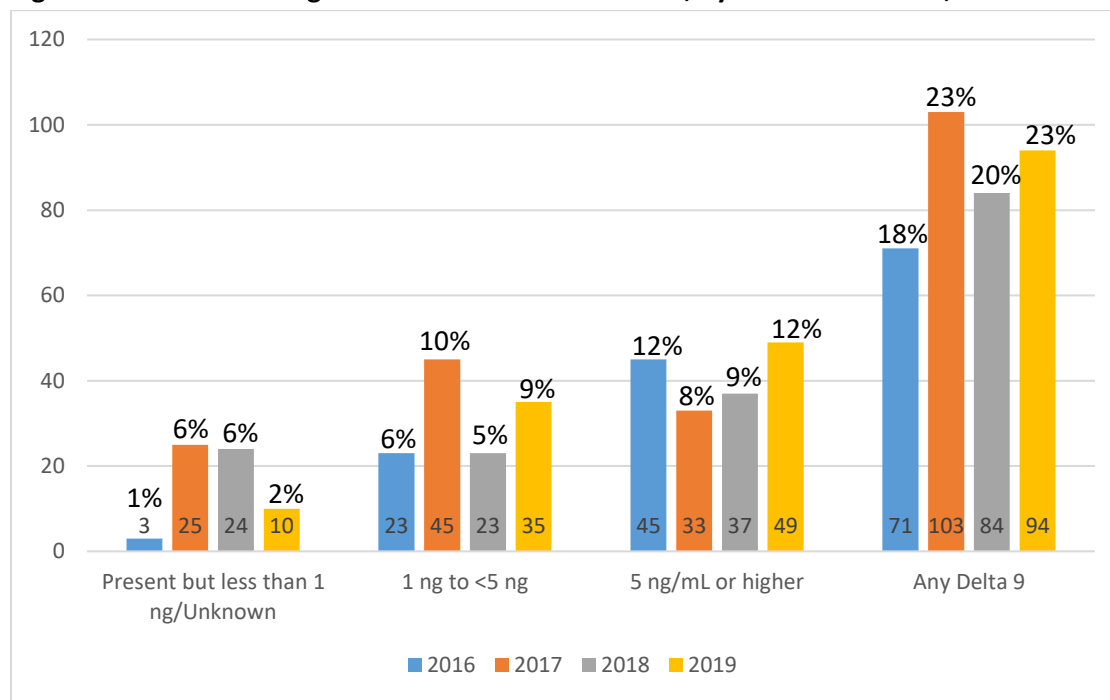
The number of fatalities where a driver tested positive for *any* Delta-9 THC increased from 77 in 2016 to 106 in 2017 (Figure 17). Fatalities where the driver tested positive at or above the 5 ng/mL level increased slightly, from 52 in 2016 to 56 in 2019.

It should be noted that a recent study found that the annual changes in overall fatality rate for Colorado was similar to a group of control states pre- and post-legalization.<sup>44</sup>

<sup>43</sup> Delta-9 THC level established in C.R.S. 42-4-1301 (6)(a) (IV) states "If at such time the driver's blood contained five nanograms or more of delta 9-tetrahydrocannabinol per milliliter in whole blood, as shown by analysis of the defendant's blood, such fact gives rise to a permissible inference that the defendant was under the influence of one or more drugs."

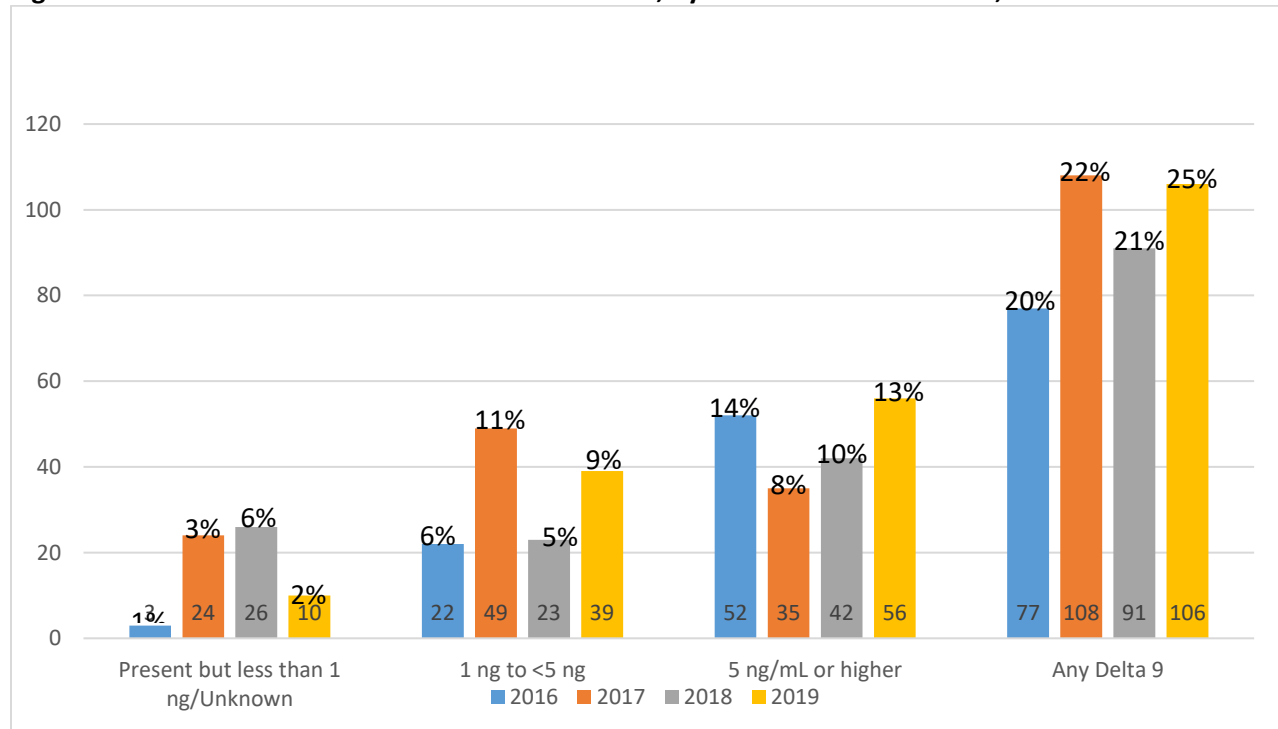
<sup>44</sup> Aydelotte, J. et al. (2017). Crash fatality rates after recreational marijuana legalization in Washington and Colorado. *American Journal of Public Health, 107* (8), 1329-1331.

**Figure 16. Colorado: Drug tested drivers in fatal crashes, by Delta-9 THC level, 2016–2019**



Source: Colorado Department of Transportation, Data Intelligence Group, Toxicology Data (2020).  
 Note: Numbers are based on toxicology results where at least one driver was tested for drugs after a crash. See Table 16 for number and percent of drivers tested each year.

**Figure 17. Colorado: Percent and number of fatalities, by driver Delta-9 THC level, 2016–2019**



Source: Colorado Department of Transportation, Data Intelligence Group, Toxicology Data (2020).  
 Note: Numbers are based on toxicology results where at least one driver was tested for drugs after a crash. See Table 16 for number and percent of drivers tested each year.

### Law Enforcement Training to Detect Impairment

Three training programs were administered in fiscal year 2016 using the Marijuana Tax Revenue Funds allocated from Senate Bill 14-215 to Peace Officer Standards and Training (POST) for law enforcement training. Training data were provided by the State of Colorado's Department of Law for the period July 1, 2014, through June 30, 2019.<sup>45</sup>

A Drug Recognition Expert (DRE) is a peace officer trained to recognize, document and articulate impairment in drivers who are under the influence of drugs other than, or in addition to, alcohol. The course to become a DRE is 56 hours, the DRE instructor course is an additional 24 hours, and an annual eight-hour update is required. In fiscal year 2016 training was completed by 23 DREs, 17 DRE instructors; 94 DREs attended the required update training (Table 20). As of May 2021, a total of 179 DREs were certified statewide (Figure 18), a significant increase since legalization but below the high point of 244 in 2015. Currently, the Colorado State Patrol (49) has the greatest number of DREs.

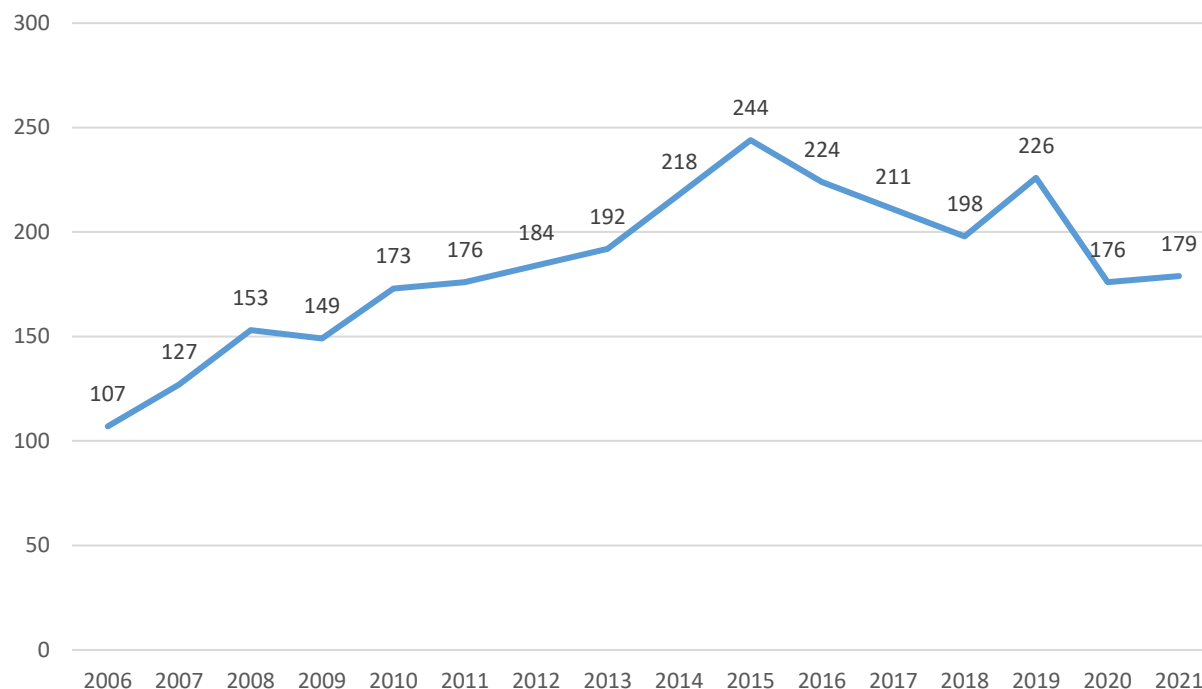
The Advanced Roadside Impaired Driving Enforcement (ARIDE) program was created to address the gap in training between the Standardized Field Sobriety Testing and the Drug Recognition Expert program. ARIDE bridges the gap between these two programs by providing officers with general knowledge related to drug impairment and by promoting the use of DREs. ARIDE training is 16 hours long. In fiscal year 2019, ARIDE training was completed by 188 peace officers (Table 20).

**Table 20. Law enforcement impaired driving training funded by Marijuana Cash Tax Fund**

|         |           | Drug Recognition Expert |            |               | ARIDE | Sobriety checkpoint training | DUI report writing |
|---------|-----------|-------------------------|------------|---------------|-------|------------------------------|--------------------|
|         |           | Operator                | Instructor | Annual update |       |                              |                    |
| FY 2015 | N classes | 3                       | 2          | 2             | 35    |                              |                    |
|         | N trained | 56                      | 17         | 160           | 562   |                              |                    |
| FY 2016 | N classes | 4                       | 2          | 2             | 15    | 15                           | 14                 |
|         | N trained | 23                      | 17         | 94            | 136   | 97                           |                    |
| FY 2017 | N classes | 2                       |            | 1             | 6     |                              | 3                  |
|         | N trained | 16                      |            | 55            | 143   |                              | 31                 |
| FY 2018 | N classes | 5                       | 1          |               | 5     |                              |                    |
|         | N trained | 58                      | 13         |               | 75    |                              |                    |
| FY 2019 | N classes | 10                      | 4          |               | 11    |                              |                    |
|         | N trained | 112                     | 77         |               | 188   |                              |                    |
| Total   | N classes | 24                      | 9          | 5             | 72    | 15                           | 17                 |
|         | N trained | 265                     | 124        | 309           | 1,104 | 97                           | 31                 |

Source: Colorado Attorney General's Office, Peace Officer Standards and Training.

<sup>45</sup> For additional information on marijuana-related trainings supplied by POST, see <https://www.coloradopost.gov/training/marijuana-training-law-enforcement>

**Figure 18. Trained Drug Recognition Experts in Colorado, 2006–2021**

Source: Colorado Department of Transportation.

## Probationer Drug Test Results

Colorado’s Probation Departments conduct drug tests on adult probationers. The frequency of testing is determined by assessment, court orders, and other case-related information. There is no link between probationer drug testing results and probation status so it is not known if changes in drug use patterns are affecting probation violations. Additionally, in 2016 a bill was passed that gave judge’s the ability to determine if there is “any material evidence, that a prohibition against the possession or use of medical marijuana is necessary and appropriate to accomplish the goals of sentencing.”<sup>46</sup> It is unknown if the number of probationers using medical marijuana was sufficient to effect the testing trends after 2016.

Table 21 presents information on the percentage of probationers tested who were positive for THC, categorized by the number of times they tested positive in a year. In all age groups the percentage of probationers testing positive one to two times did not change appreciably. However, the percentage testing positive three times or more doubled for those 18 to 25 years old (12% in 2012 to 27% in 2019). The percentage of probationers using three or more times tripled for the 26 to 35 age group (7% in 2012 to 21% in 2019) and for the 36 and older age group (5% in 2012 to 15% in 2019).

<sup>46</sup> C.R.S 18-1.3-204(VIII)(A).



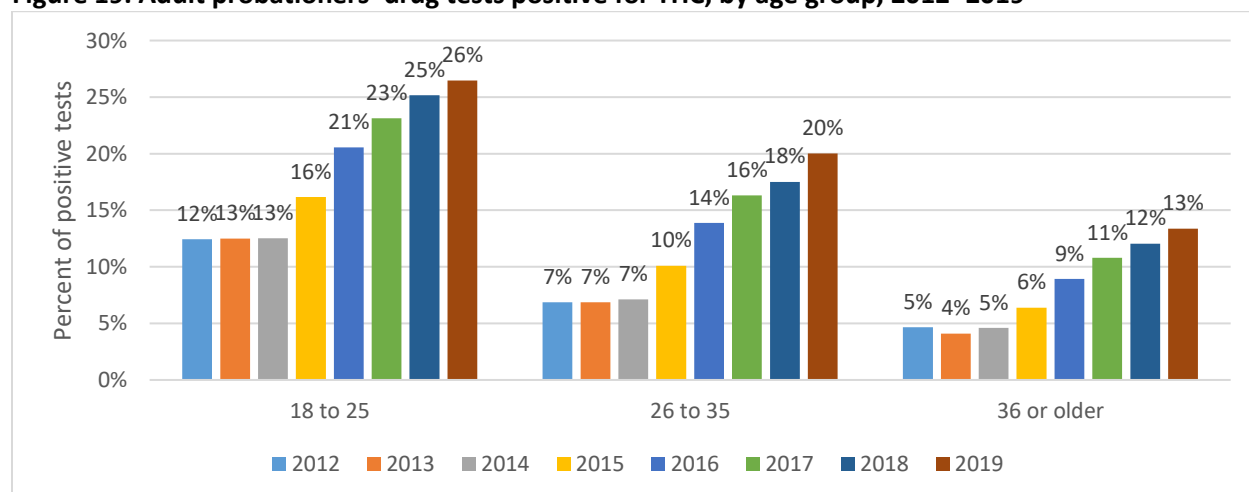
**Table 21. Adult probationer drug test results for THC, by age group and number of times positive in a year, 2012-19**

| Age group                | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>18 to 25 years</b>    |        |        |        |        |        |        |        |        |
| N tested                 | 17,231 | 15,983 | 18,832 | 17,845 | 16,916 | 16,305 | 15,285 | 14,377 |
| 0 times positive         | 68%    | 69%    | 66%    | 64%    | 61%    | 58%    | 55%    | 53%    |
| 1-2 times positive       | 21%    | 18%    | 18%    | 18%    | 18%    | 18%    | 19%    | 20%    |
| 3 times or more positive | 12%    | 12%    | 16%    | 19%    | 21%    | 23%    | 26%    | 27%    |
| <b>26 to 35 years</b>    |        |        |        |        |        |        |        |        |
| N tested                 | 15,851 | 16,192 | 21,290 | 21,582 | 21,944 | 22,078 | 22,140 | 21,906 |
| 0 times positive         | 79%    | 81%    | 79%    | 75%    | 72%    | 69%    | 66%    | 63%    |
| 1-2 times positive       | 13%    | 12%    | 11%    | 12%    | 12%    | 13%    | 15%    | 15%    |
| 3 times or more positive | 7%     | 8%     | 10%    | 12%    | 15%    | 18%    | 19%    | 21%    |
| <b>36 years or older</b> |        |        |        |        |        |        |        |        |
| N tested                 | 16,594 | 17,561 | 23,543 | 24,016 | 23,937 | 24,324 | 25,012 | 25,760 |
| 0 times positive         | 86%    | 88%    | 86%    | 84%    | 81%    | 78%    | 76%    | 73%    |
| 1-2 times positive       | 9%     | 8%     | 8%     | 8%     | 9%     | 9%     | 11%    | 12%    |
| 3 times or more positive | 5%     | 5%     | 7%     | 8%     | 10%    | 12%    | 14%    | 15%    |

Note: Percentages may not sum to 100 due to rounding.

Source: Data provided by Colorado State Judicial Department. Analyzed by the Division of Criminal Justice.

The percent of all drug tests that were positive for THC increased across all adult age groups (Figure 19). For 18- to 25-year-olds, 12% of tests were positive in 2012 and 26% were positive in 2019. For 26- to 35-year-olds, 7% of tests were positive in 2012, which nearly tripled to 20% in 2019. The percent of drug tests for those 36 years or older also nearly tripled, from 5% in 2012 to 13% in 2019.

**Figure 19. Adult probationers' drug tests positive for THC, by age group, 2012–2019**

Source: Data provided by Colorado State Judicial Department. Analyzed by the Division of Criminal Justice.

### Marijuana Seizures in Colorado

Seizures of marijuana are reported in NIBRS using the property field. The quantity of marijuana is noted, either by weight, liquid volume, dosage units, or number of plants.<sup>47</sup> The type of marijuana seized, such as flower/bud, concentrates, edibles, oils, etc. is not indicated. Additionally, sometimes the quantity of seized marijuana is not reported. Table 22 presents a trend of the quantity of marijuana seized and the number of reports. The 27,367 pounds of marijuana seized in 2019 is the highest since 2012 even though the number of seizures is the lowest. The 27,807 plants seized in 2019 is the second highest since 2012, but is a reduction from the 38,044 seized in 2018.

**Table 22. Quantity of marijuana seized and number of reported seizures, by measurement type, 2012–2019**

| Quantity seized         |           | 2012   | 2013  | 2014   | 2015  | 2016   | 2017   | 2018   | 2019   |
|-------------------------|-----------|--------|-------|--------|-------|--------|--------|--------|--------|
| Weight (lbs)            | Amount    | 7,697  | 3,364 | 3,010  | 5,103 | 5,145  | 10,358 | 10,974 | 27,367 |
|                         | N reports | 11,762 | 5,183 | 5,077  | 4,623 | 4,614  | 4,889  | 4,622  | 3,600  |
| Liquid volume (gallons) | Amount    | 15     | 1     | 1      | 60    | 6      | 41     | 8      | 12     |
|                         | N reports | 12     | 2     | 3      | 10    | 14     | 10     | 8      | 13     |
| Dosage units            | Amount    | 1,632  | 431   | 31,131 | 592   | 8,779  | 5,243  | 6,058  | 5,279  |
|                         | N reports | 169    | 50    | 60     | 90    | 130    | 199    | 163    | 220    |
| Plants                  | Amount    | 28,284 | 1,228 | 2,840  | 4,000 | 10,076 | 25,255 | 38,044 | 27,807 |
|                         | N reports | 115    | 26    | 22     | 21    | 64     | 95     | 114    | 98     |
| Not reported            | Amount    | NA     | NA    | NA     | NA    | NA     | NA     | NA     | NA     |
|                         | N reports | 398    | 555   | 772    | 900   | 582    | 399    | 395    | 255    |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System. Analyzed by the Division of Criminal Justice.

### Colorado Bureau of Investigation, Illicit Market Marijuana Team

The Colorado Bureau of Investigation's (CBI) Illicit Market Marijuana Team (IMMT) works in conjunction with local law enforcement around the state—especially those located in rural areas—to identify and dismantle illegal marijuana grows in Colorado. Formed in late 2018, the team is comprised of 13 investigative agents and one analyst.

Multiple team teams operate in Colorado covering all regions of the state. Agents are stationed in Grand Junction, Durango, Denver and Pueblo, and provide support to local law enforcement in an assist or lead capacity, and work closely with local district attorney offices.<sup>48</sup>

<sup>47</sup> The possible weight categories include grams, kilograms, ounces, or pounds. Liquid volume includes milliliters, liters, fluid ounces, or gallons. Dosage units are individual items, such as edibles. Plants are physical plants seized.

<sup>48</sup> Description of the team excerpted from the Colorado Bureau of Investigation's 2019 CBI Annual Report.

In 2019, the IMMT participated in 36 cases, resulting in the dismantling of 82 illegal grow sites and 49 arrests. The team seized 25,161 plants, 5,487 pounds of processed marijuana, and 64 firearms (Table 23). The first three months of 2020 are included but will not be reflective of the final annual totals due to the timing of the outdoor marijuana growing season.

**Table 23. CBI Illicit Market Marijuana Team activity**

|                             | 2019   | 2020 (Jan-Mar) |
|-----------------------------|--------|----------------|
| Total cases                 | 36     | 6              |
| Arrests                     | 49     | 7              |
| Grow sites dismantled       | 82     | 26             |
| Plants seized               | 25,161 | 5,512          |
| Processed marijuana (lbs)   | 5,487  | 543            |
| Oils and concentrates (lbs) |        | 36             |
| Firearms seized             | 64     | 16             |

Source: Colorado Bureau of Investigation (2020). *2019 CBI Annual Report*; 2020 data provided by CBI.

Note: The seizures reported by the BMMT will be a subset of the total seizures reported in Table 21.

### Illegal Cultivation on Public Lands

Data from the National Forest Service, Bureau of Land Management, National Park Service, and the Colorado Division of Parks and Wildlife was obtained to determine what enforcement actions have been undertaken regarding cultivation of marijuana on public lands. The number of growing operations and plants seized shows no discernible trend (Table 24). Prior to legalization, the year with the greatest activity was 2012, with 11 grow operations seized, accounting for approximately 46,622 plants. There has been significant fluctuation in the number of plants seized since 2012, from a low of 1,502 in 2018 to a high of 80,826 in 2017.

**Table 24. Marijuana plants seized on public land, by agency, 2009–2019**

| Year | Grows seized | Plants seized           |                           |                       | Total number of plants |
|------|--------------|-------------------------|---------------------------|-----------------------|------------------------|
|      |              | National Forest Service | Bureau of Land Management | National Park Service |                        |
| 2009 | 8            | 29,200                  | 177                       | 4                     | 29,381                 |
| 2010 | 5            | 15,665                  | 0                         | 0                     | 15,665                 |
| 2011 | 4            | 3,970                   | 0                         | 0                     | 3,970                  |
| 2012 | 11           | 46,662                  | 0                         | 0                     | 46,662                 |
| 2013 | 3            | 4,980                   | 0                         | 0                     | 4,980                  |
| 2014 | 4            | 4,484                   | 0                         | 0                     | 4,484                  |
| 2015 | 6            | 22,830                  | 2,200                     | 0                     | 25,030                 |
| 2016 | 8            | 63,602                  | 0                         | 0                     | 63,602                 |
| 2017 | 22           | 71,626                  | 9,200                     | 0                     | 80,826                 |
| 2018 | 9            | 1,502                   | 0                         | 0                     | 1,502                  |
| 2019 | 10           | 33,361                  | 0                         | 0                     | 33,361                 |

Source: Data provided by National Forest Service, National Park Service, and Bureau of Land Management. Analyzed by the Division of Criminal Justice.

In 2019, the most common outcomes for a federal marijuana offense on National Park Lands are a warning (170, 64%) or a federal violation notice (83, 31%) with very few (6) receiving a custodial arrest (Table 25).

**Table 25. Marijuana offenses in Colorado National Parks, 2017-2019**

| Charge status            | 2017      | 2018       | 2019       |
|--------------------------|-----------|------------|------------|
| Arrest/physical custody  | 1         | 6          | 6          |
| Criminal complaint       |           | 1          |            |
| Federal violation notice | 34        | 78         | 83         |
| State/local citation     |           |            | 2          |
| Warning                  | 48        | 126        | 170        |
| Unknown                  | 2         |            | 5          |
| <b>Grand Total</b>       | <b>85</b> | <b>211</b> | <b>266</b> |

Source: Data provided by the National Park Service.  
 Note: These comprise offenses of 36 CFR 2.35(b)(2),  
 Unlawful possession of controlled substance  
 (Misdemeanor).

#### *Drug Enforcement Administration Cannabis Eradication Program*

The Drug Enforcement Administration (DEA) initiated the Domestic Cannabis Eradication/Suppression Program (DCE/SP), which is the only nationwide law enforcement program that exclusively targets drug trafficking organizations (DTOs) involved in cannabis cultivation. Through its nationwide cannabis eradication efforts, the DEA provides resources to support the 128 state and local law enforcement agencies that actively participate in the program. This assistance allows for the enhancement of already aggressive eradication enforcement activities throughout the nation.

The number of outdoor plants destroyed decreased from 26,020 in 2011 to 2,630 in 2014. However, the number of outdoor plants eradicated increased in both 2015 (26,545) and 2016 (23,823) before decreasing in recent years (Table 26). The number of indoor plants seized has not shown a consistent trend but reached a recent peak in in 2018 (46,428) and 2019 (57,711). These seizure totals indicate that there is continued federal involvement in Colorado's illicit marijuana trade. The number of recent arrests in 2018 (64) and 2019 (34) are the highest since legalization. Additionally, the number of weapons seized from 2016 to 2019 (n=228) are the most weapons seized in any recent four-year period (Table 26).

**Table 26. Drug Enforcement Administration cannabis eradication/suppression program in Colorado, 2006–2019**

| Year | Outdoor grow sites | Outdoor plants | Indoor grow sites | Indoor plants | Bulk processed marijuana (pounds) | Number of arrests | Weapons seized | Assets seized (value) |
|------|--------------------|----------------|-------------------|---------------|-----------------------------------|-------------------|----------------|-----------------------|
| 2006 | 14                 | 3,819          | 47                | 3,667         | 1,727                             | 193               | 19             | \$932,679             |
| 2007 | 31                 | 2,498          | 45                | 2,430         | 57                                | 143               | 29             | \$903,944             |
| 2008 | 17                 | 5,564          | 29                | 24,469        | 64                                | 36                | 0              | \$3,094,240           |
| 2009 | 28                 | 29,655         | 7                 | 235           | 62                                | 5                 | 0              | \$12,500              |
| 2010 | 7                  | 6,331          | 50                | 5,492         | 0                                 | 60                | 0              | \$153,674             |
| 2011 | 16                 | 26,020         | 3                 | 4             | 125                               | 11                | 0              | \$15,626              |
| 2012 | 3                  | 21,235         | 7                 | 2,069         | 515                               | 9                 | 47             | \$354,325             |
| 2013 | 2                  | 5,562          | 19                | 11,042        | 1,636                             | 2                 | 11             | \$257,938             |
| 2014 | 3                  | 2,630          | 18                | 5,426         | 381                               | 6                 | 23             | \$2,066,855           |
| 2015 | 6                  | 26,545         | 2                 | 527           | 159                               | 14                | 0              | \$0                   |
| 2016 | 13                 | 23,823         | 78                | 18,010        | 3,659                             | 15                | 66             | \$2,320,552           |
| 2017 | 9                  | 2,059          | 37                | 3,706         | 3,550                             | 24                | 79             | \$475,412             |
| 2018 | 13                 | 12,427         | 114               | 46,428        | 6,039                             | 64                | 43             | \$1,259,720           |
| 2019 | 13                 | 4,247          | 118               | 57,711        | 19,731                            | 34                | 40             | \$1,576,568           |

Source: U.S. Department of Justice, Drug Enforcement Administration. Cannabis Eradication, at <https://www.dea.gov/domestic-cannabis-suppression-eradication-program>, *Sourcebook of Criminal Justice Statistics*, at <http://www.albany.edu/sourcebook>

## Diversion Out of State

The amount of marijuana diverted out of Colorado is difficult to estimate, because a relatively small percentage of illicit market drugs are seized according to law enforcement officials. There is also no central database to which all law enforcement agencies report drug seizures and the originating state of the drug. The Colorado Information Analysis Center (CIAC), in the Department of Public Safety, is developing a comprehensive overview of where and how marijuana is being diverted out of Colorado. At present, staff is working to identify data sources that can reliably report on marijuana that is diverted from Colorado to other states. Currently, the best data available on diversion out of the state comes from the National Seizure System maintained by the El Paso Intelligence Center (EPIC). EPIC is an organization that provides intelligence and operational support to law enforcement agencies at all levels. EPIC has a data portal where law enforcement can enter information about drug seizures (among other things) including state of origin, state of interdiction, and destination state.

The number of seizures reported increased from 2012 (286) to 2015 (768) but then declined, with 266 seizures reported to EPIC in 2019 (Table 26). Seizures used to be almost exclusively of marijuana flower, with that accounting for 90% of reported seizures in 2012. By 2019, 67% of seizures were for flower, 22% were for concentrates/hash, and 10% were for edibles (Table 27).

**Table 27. Seizures of Colorado-sourced marijuana, by type, 2010–2019**

| Year | Marijuana type seized |                         |         |       | Total |
|------|-----------------------|-------------------------|---------|-------|-------|
|      | Flower/bud            | Concentrate/<br>hashish | Edibles | Other |       |
| 2010 | 216                   | 9                       | 0       | 0     | 225   |
| 2011 | 299                   | 24                      | 0       | 3     | 326   |
| 2012 | 257                   | 26                      | 2       | 1     | 286   |
| 2013 | 265                   | 38                      | 4       | 2     | 309   |
| 2014 | 373                   | 86                      | 9       | 0     | 468   |
| 2015 | 503                   | 160                     | 103     | 2     | 768   |
| 2016 | 444                   | 129                     | 97      | 3     | 673   |
| 2017 | 351                   | 157                     | 100     | 0     | 608   |
| 2018 | 211                   | 83                      | 42      | 0     | 336   |
| 2019 | 179                   | 59                      | 26      | 2     | 266   |

Source: Colorado Information Analysis Center, data extracted from National Seizure System.

### Transfer Using Parcel Services

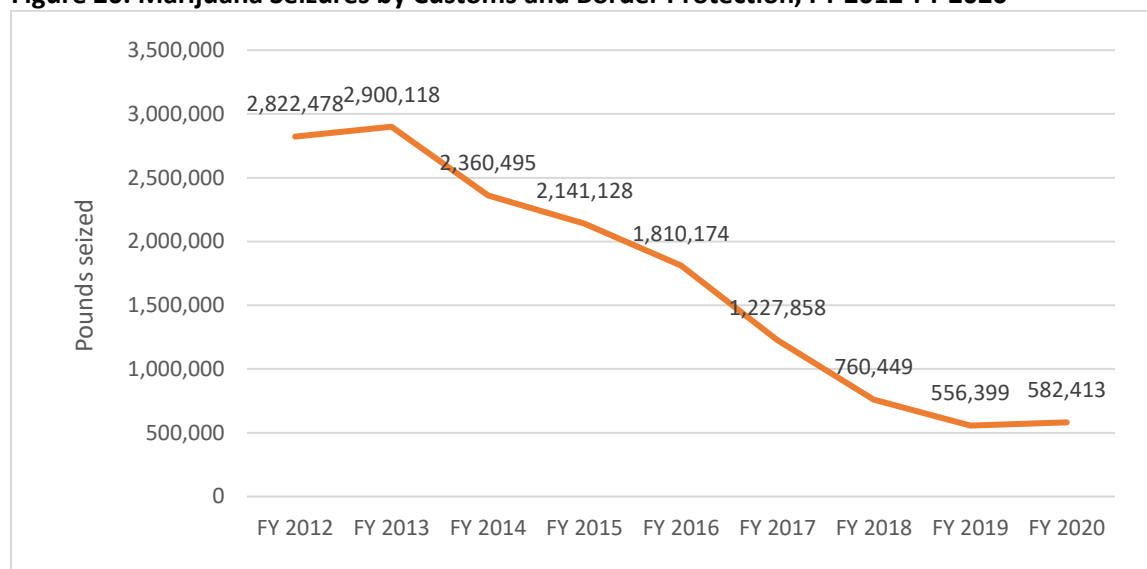
The United States Postal Inspection Service reported the number of seizures to the Rocky Mountain High Intensity Drug Trafficking Area (RMHIDTA) organization. Table 28 presents the trend from 2010 through 2017, which indicates regular increases in both the number of parcels and amount of marijuana products seized.

**Table 28. Marijuana Seizures in Colorado by United States Postal Inspection Service, 2010–2017**

| Year | N parcels<br>seized | Pounds<br>seized |
|------|---------------------|------------------|
| 2010 | 15                  | 57.2             |
| 2011 | 36                  | 68.2             |
| 2012 | 158                 | 262.0            |
| 2013 | 207                 | 493.1            |
| 2014 | 320                 | 469.9            |
| 2015 | 581                 | 1247.0           |
| 2016 | 854                 | 1725.5           |
| 2017 | 1,009               | 2,001.0          |

Source: Rocky Mountain High Intensity Drug Trafficking Area (2018). *The Legalization of Marijuana in Colorado: The Impact, Volume 5*. Note: Data provided to RMHIDTA from the United States Postal Inspection Service (USPIS). The USPIS has not provided updated data to RMHIDTA since 2017.

Figure 20 does not directly apply to marijuana seized in Colorado, but instead shows the amount seized at the nation's borders by the United States Customs and Border Protection. The amount of marijuana seized at the border decreased 79% between FY 2012 and FY 2020. This reduction in seizures has not been mirrored by the trends of other drugs, where heroin, methamphetamine, and fentanyl seizures have shown marked increases (data not presented). This reduction in marijuana importation may reflect the growth of the legal market in the United States meeting the national demand.

**Figure 20. Marijuana Seizures by Customs and Border Protection, FY 2012-FY 2020**

Source: U.S. Customs and Border Protection, CBP Enforcement statistics, <https://www.cbp.gov/newsroom/stats/cbp-enforcement-statistics>

## SECTION THREE

### IMPACT ON PUBLIC HEALTH AND BEHAVIORAL HEALTH SERVICES

#### Overview

This section summarizes several sources of data to examine the impact of marijuana legalization on public health and behavioral health services in Colorado. The Department of Public Health and Environment (CDPHE) monitors environmental and public health for the state and is statutorily mandated to measure and report on public health impacts. CDPHE produces a report every two years that provides an in-depth understanding of the public health concerns in the state; the most recent report was published in January 2021.

CDPHE is required by statute to monitor marijuana use patterns and potential marijuana adverse health effects. To this end, CDPHE uses the Behavioral Risk Factor Surveillance System (BRFSS), the National Survey of Drug Use and Health (NSDUH), a long-term survey conducted by the Substance Abuse and Mental Health Services Administration (SAMHSA), and data provided by the Colorado Hospital Association and the Rocky Mountain Poison and Drug Center.

The American College Health Association administers the National College Health Assessment, an annual survey of college students that asks a few questions about marijuana. These data are discussed below.

Data provided by the Colorado Department of Human Services, Office of Behavioral Health, inform two treatment topics in this section. The first focuses on licensed facilities that report treatment admissions in which marijuana is listed as the client's primary drug of abuse. The second reviews trends in the frequency of use by clients in treatment for marijuana abuse.

#### Adult Usage

##### Behavioral Risk Factor Surveillance System

The Colorado Behavioral Risk Factor Surveillance System (BRFSS), sponsored by the Centers for Disease Control and Prevention, is a telephone survey of adults 18 and older that monitors lifestyles and behaviors related to the leading causes of mortality and morbidity. In recent years, health professionals and the public have become increasingly aware of how such lifestyle factors as cigarette smoking, being overweight, sedentary lifestyle, and the nonuse of seat belts contribute to injury, illness, and death.<sup>49</sup>

In 2014, questions were added to the Colorado BRFSS regarding lifetime and past 30-day marijuana use, age of first use, and whether respondents drove after recent use. In 2015, questions were added to estimate methods and frequency of marijuana use, and respondents' perception of harm from use. In 2016, the questions about lifetime use and age of first use were removed. By continuing collection of

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<sup>49</sup> Additional information on the Colorado BRFSS can be accessed at <https://marijuanahealthinfo.colorado.gov/health-data/behavioral-risk-factor-surveillance-system-brfss-data>



these data over time, CDPHE will be able to monitor any changes in marijuana use patterns among Colorado adults.

Marijuana use remained stable from 2014 to 2016, at around 13.5%. In 2017, use significantly increased to 17.5% and continued upwards in 2019, when 19.0% of Colorado adults reported using marijuana in the past 30 days (Figure 21).

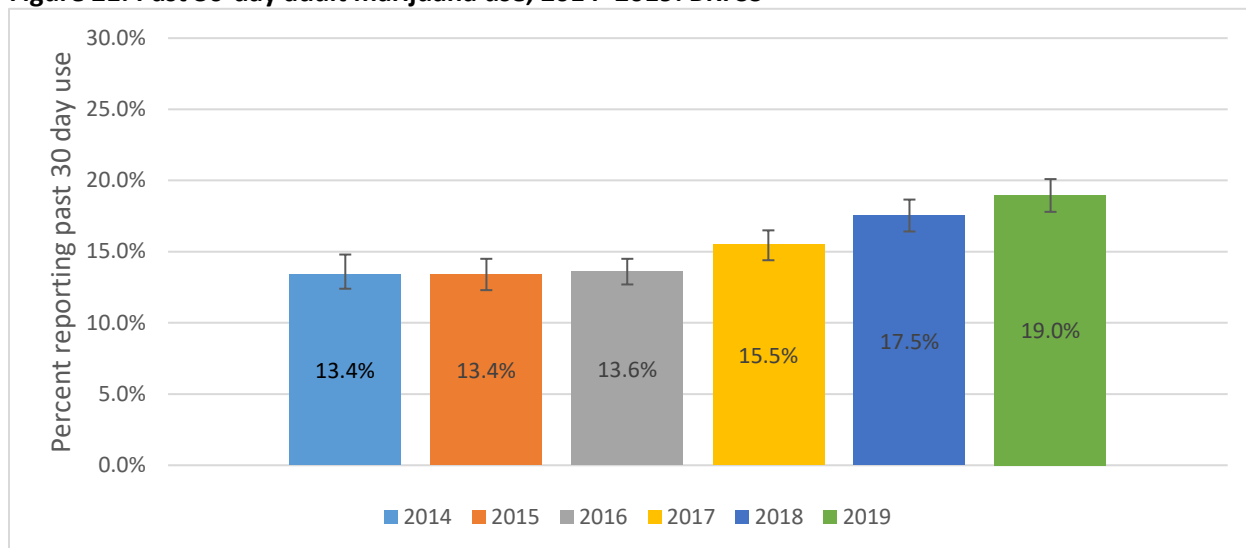
Prevalence of marijuana use differed by age, gender, race/ethnicity, and sexual orientation. In 2019, more males reported current (past 30-day) use of marijuana (22.9%) than females (15.1%). Current use for males increased significantly from 2018 (20.2%) to 2019 (22.9%), but female use remained stable (Figure 22).

Figure 23 presents trend data for past 30-day marijuana use stratified by age group. In 2019, past 30-day marijuana use among 18- to 25-year-old respondents (28.8%) was not significantly different from 26- to 34-year-olds (29.4%). However, both of those age groups reported significantly higher past 30-day use compared 35- to 64-year-olds (17.3%) and those 65 and older (9.3%). There was no significant difference in reported use for 18- to 25-year-olds or 26 to 34 -year-olds from 2017 to 2019. Reported use for those ages 35 to 64 years significantly increased from 2017 (12.8%) to 2019 (17.3%) as well as for those 65 years and older from 2017 (5.6%) to 2019 (9.3%).

Past 30-day marijuana use did not significantly differ by race/ethnicity (Figure 24). In 2019, White non-Hispanics had significantly higher marijuana prevalence rates (20.1%) than Hispanics (13.6%). There was no change in the Hispanic prevalence but the percentage of White non-Hispanics reporting past 30-day use increased significantly, from 17.9% in 2018 to 20.1% in 2019.

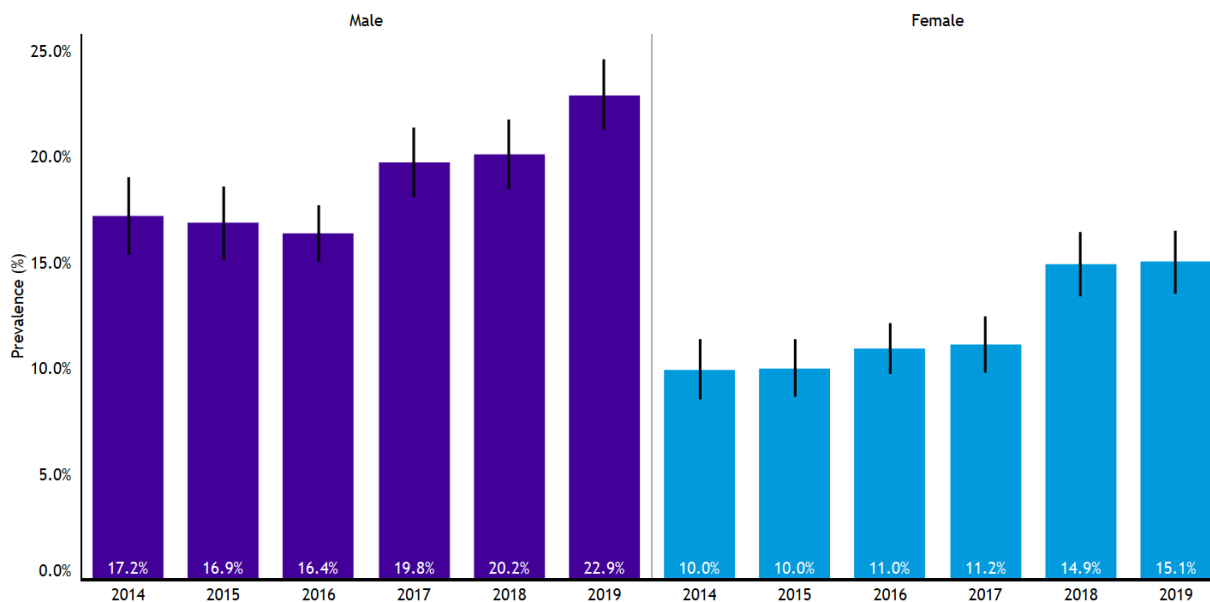
Sexual orientation was related to past 30-day marijuana use (Figure 25). In 2019, 37.0% of those who identified their sexual orientation as gay, lesbian, or bisexual reported use in the past 30 days compared to 17.7% for those who identified as heterosexual. From 2018 to 2019, there were no significant changes in marijuana usage prevalence for either sexual orientation category.

**Figure 21. Past 30-day adult marijuana use, 2014–2019: BRFSS**



Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

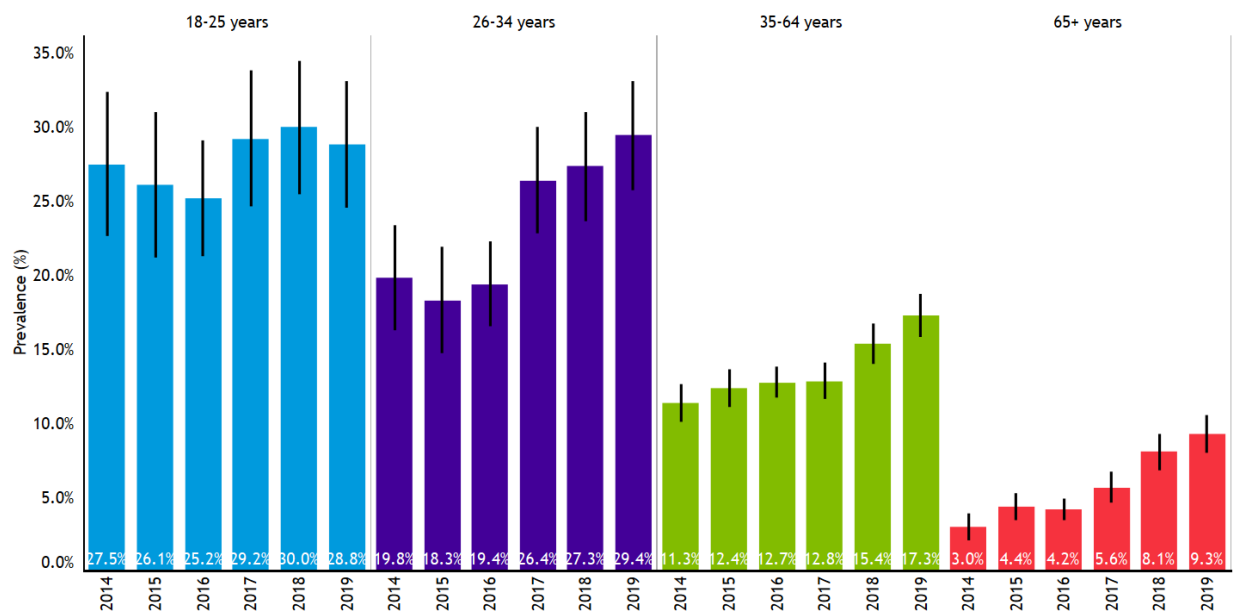
**Figure 22. Past 30-day adult marijuana use, by gender, 2014–2019: BRFSS**



**Figure Notes:**  
Demographic stratifications with less than 50 respondents are suppressed and displayed missing

Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

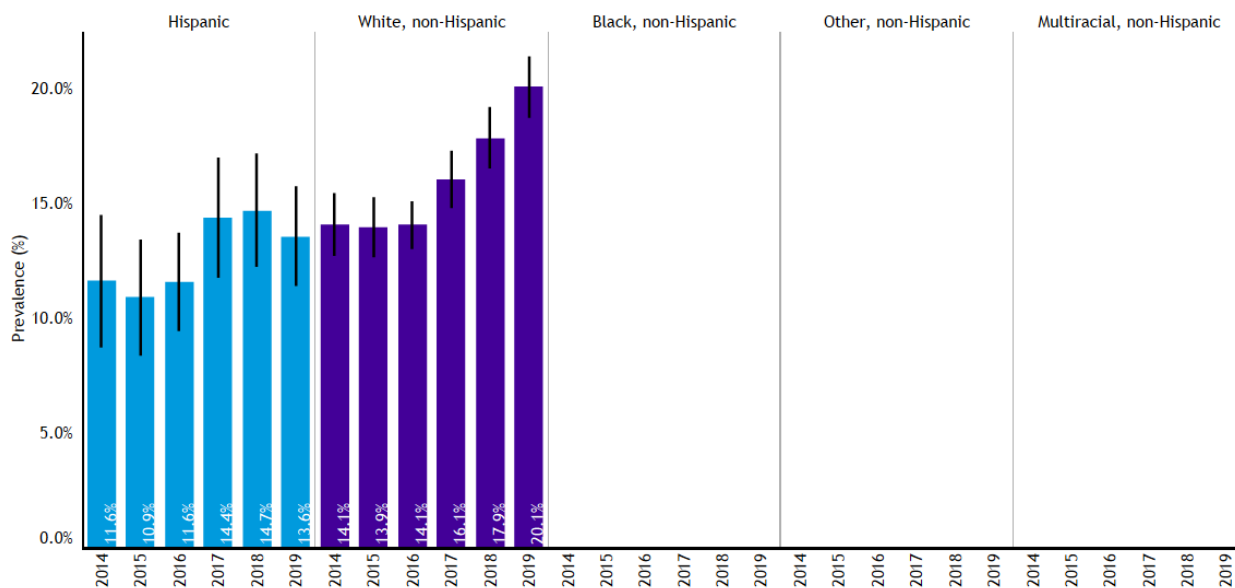
**Figure 23. Past 30-day adult marijuana use, by age group, 2014–2019: BRFSS**



**Figure Notes:**  
Demographic stratifications with less than 50 respondents are suppressed and displayed missing

Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

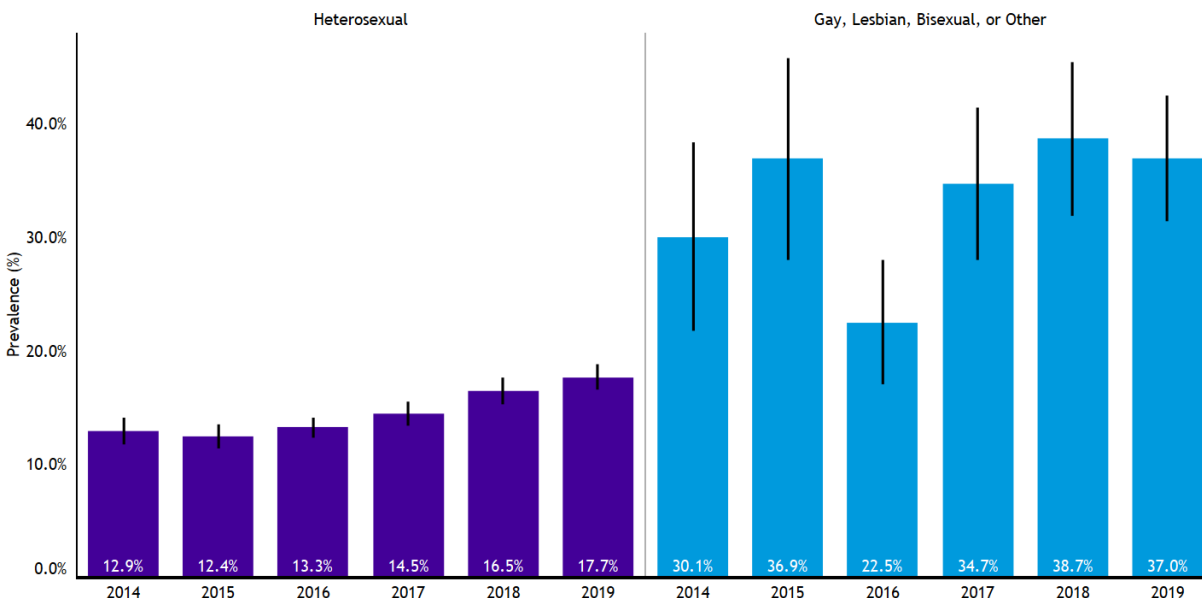
**Figure 24. Past 30-day adult marijuana use, by race/ethnicity, 2014–2019: BRFSS**



Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

Note: Demographic stratifications with less than 50 respondents are suppressed and displayed missing.

**Figure 25. Past 30-day adult marijuana use, by sexual orientation, 2014–2019: BRFSS**



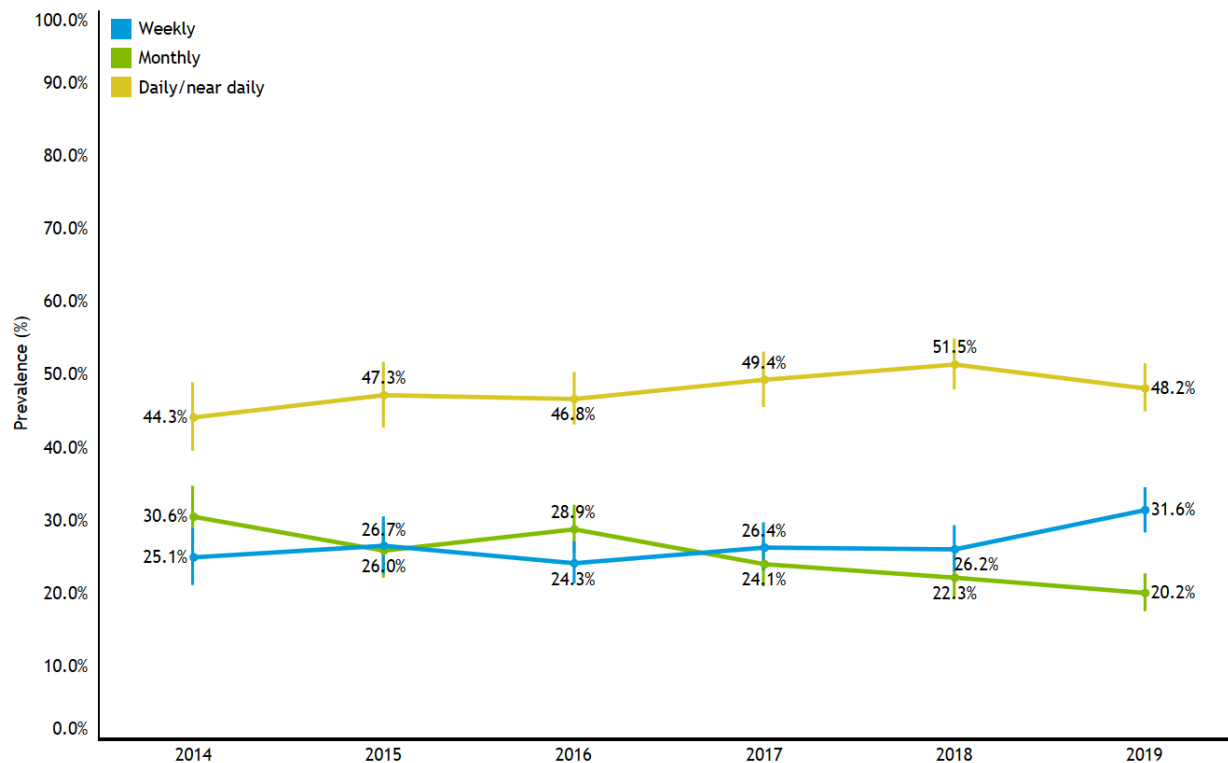
**Figure Notes:**  
Demographic stratifications with less than 50 respondents are suppressed and displayed missing

Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

The most common frequency of marijuana use in 2019 (Figure 26) was daily/near daily (48.2%), followed by weekly (31.6%), and monthly (20.2%). The percentage reporting daily/near daily use has remained stable while the percentage reporting weekly use increased significantly from 2018 (26.2%) to 2019 (31.6%).

The most common methods of adult marijuana use (Figure 27) are smoking (76.1%), eating/drinking (43.0%), vaporizing (32.0%), dabbing (19.6%), and some other method (11.7%).

**Figure 26. Frequency of adult marijuana use, 2014-2019: BRFSS**

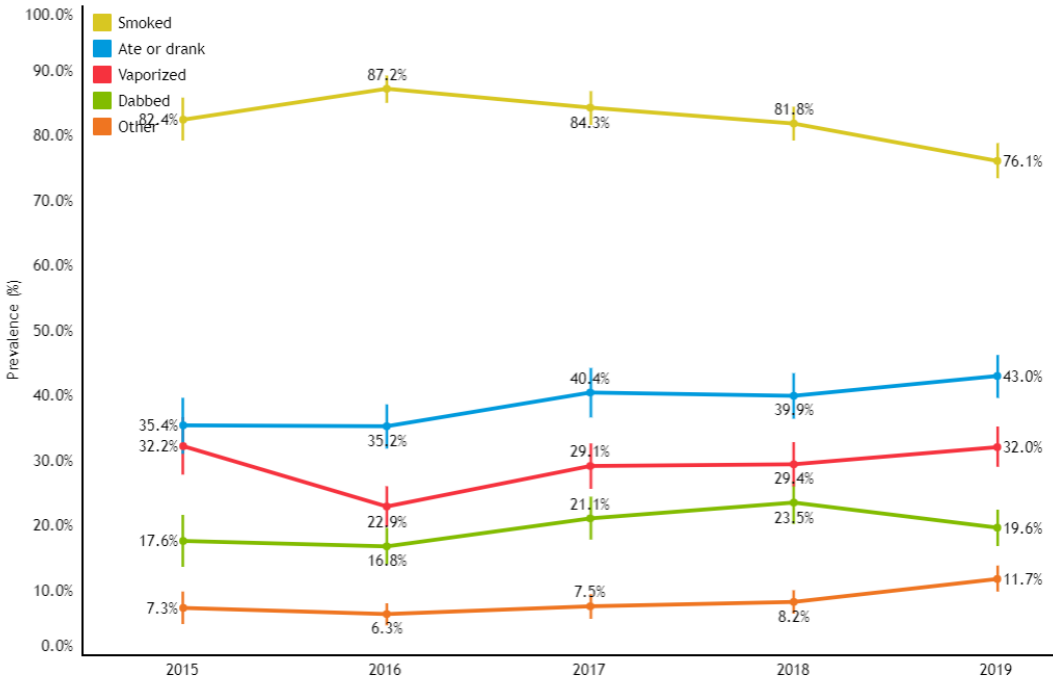


**Figure Notes:**

Denominator includes respondents that answered past 30 day use and missing, don't know, and refused answers are removed in prevalence calculation

Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

**Figure 27. Method of marijuana use, 2015-2019: BRFSS**

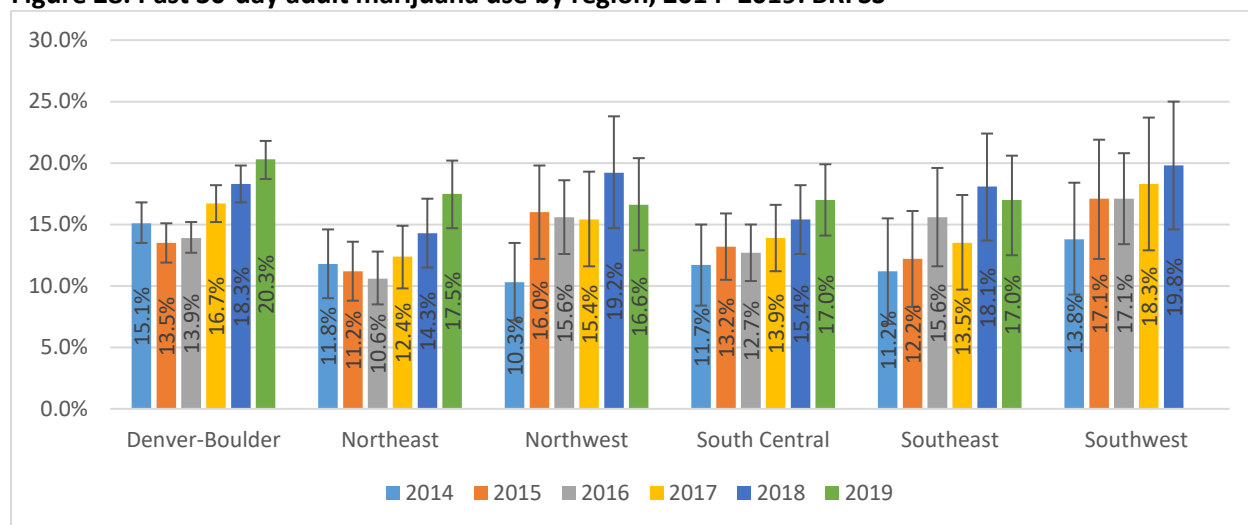


**Figure Notes:**

Denominator includes respondents that answered past 30 day use and missing, don't know, and refused answers are removed in prevalence calculation

Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

The geographic BRFSS marijuana use estimates for Colorado are presented in two ways. Annual data were grouped into six regions (Figure 28), while county-level data for 2014 through 2018 were only available as a 5-year average (Figure 29). The trends within each region from 2014 through 2019 are presented in Figure 27. In 2019, the region with the lowest rate was the Northwest (16.6%) while the highest usage rates were in the Denver-Boulder region (20.3%) (Figure 27). There were no statistically significant differences between the regions.

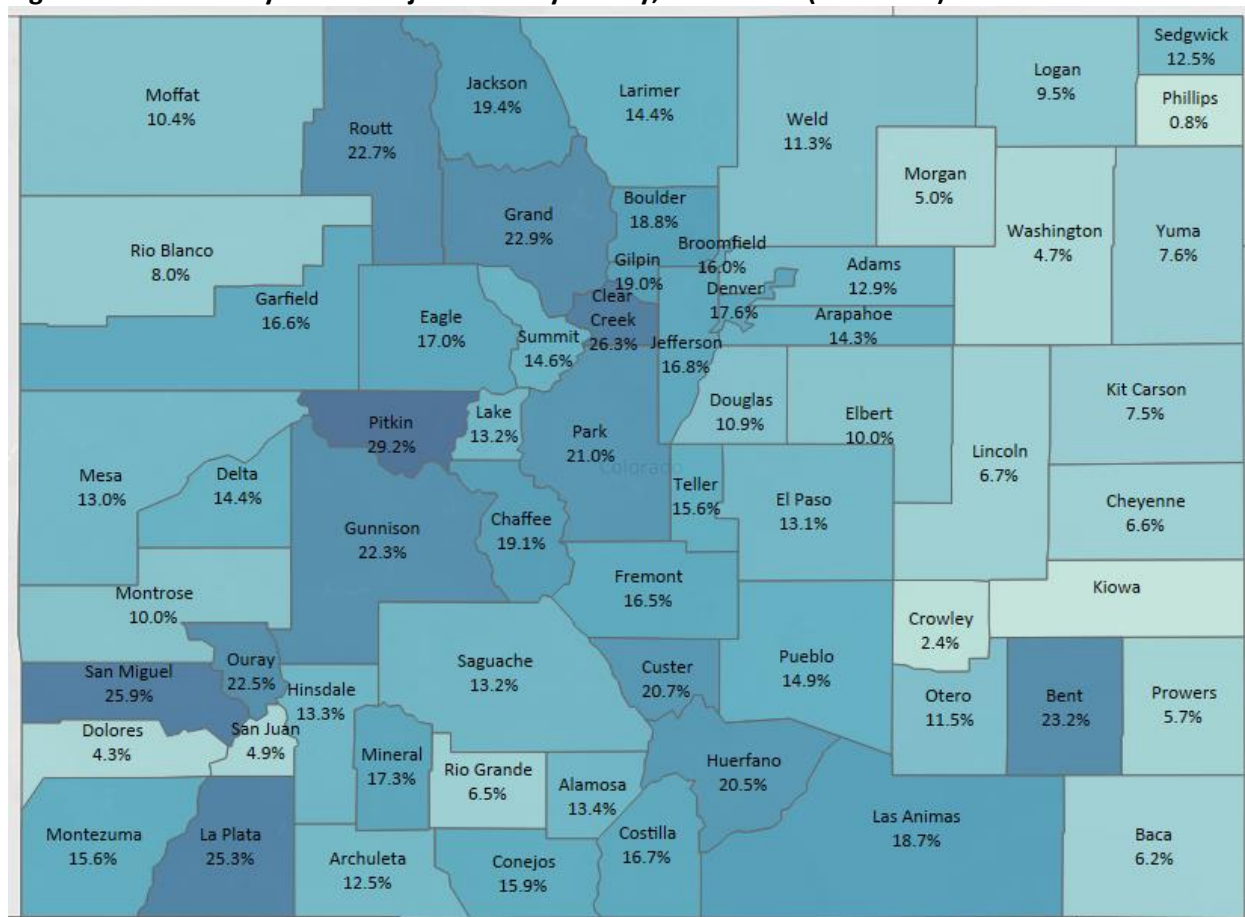
**Figure 28. Past 30-day adult marijuana use by region, 2014–2019: BRFSS**

Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

Note: Estimates were not calculated for the Southwest region in 2019 due to small sample size.

County-level estimates of past 30-day marijuana use are presented in Figure 29. Due to the relatively small number of responses in each county, the results are combined for the five-year period from 2014 to 2018. The counties with the three highest past 30-day marijuana use were Pitkin (29.2%), Clear Creek (26.3%), and San Miguel (25.9%). The counties with the lowest past 30-day marijuana use were Philips (0.8%), Crowley (2.4%), and Delores (4.3%).

**Figure 29. Past 30-day adult marijuana use by county, 2014–2018 (combined): BRFSS**



Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.

Note: Counties shaded in orange either had no data reported or did not have enough responses over the five-year period to develop reliable estimates.

National Survey on Drug Use and Health

The Substance Abuse and Mental Health Services Administration (SAMHSA) conducts the annual National Survey on Drug Use and Health (NSDUH).<sup>50</sup> NSDUH is the primary source of information on the prevalence, patterns, and consequences of alcohol, tobacco, and illegal drug use and abuse and mental disorders in the U.S. civilian, noninstitutionalized population, age 12 and older. The survey generates estimates at the national, state, and sub-state levels. NSDUH is state-based, with an independent, multistage area probability sample within each state and the District of Columbia. SAMHSA produces

<sup>50</sup> Descriptions of NSDUH derived from information available at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

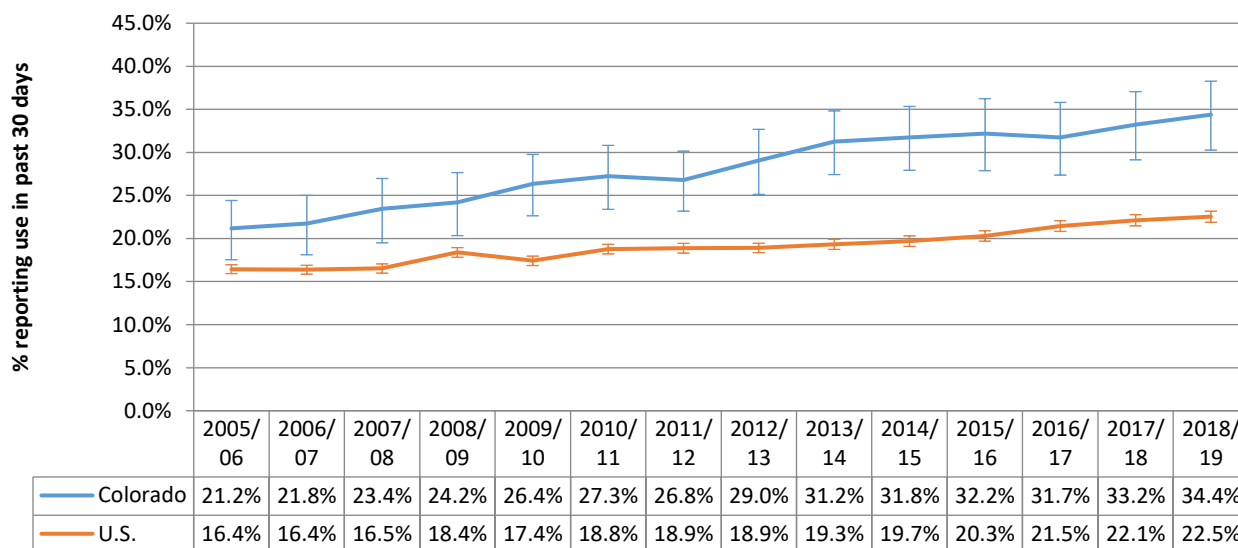


state-level estimates from a two-year rolling average. This means that each year actually represents two years of data. The two-year prevalence rates for Colorado residents 18 and older were based on weighted estimates from 1,200 to 1,400 survey respondents.<sup>51</sup>

#### Young Adult Trends (18- to 25-Year-Olds)

Past 30-day marijuana use increased significantly for young adults (18- to 25-year-olds), from 21.2% in 2005/06 to 31.2% in 2013/14 but stabilized since legalization, with 34.4% reporting use in 2018/19 (Figure 30). Figure 31 shows the prevalence of past 30-day marijuana use by state, which indicates that young adult use in Colorado was significantly higher than in most other states.<sup>52</sup> The increase in marijuana use contrasts with a decline in tobacco use (down from 45.9% to 26.2%). Use of other illicit drugs was stable at around 9% during this same period (Figure 31). Alcohol use did not change appreciably, with usage rates at approximately 63% to 70% during this period (Figure 32).

**Figure 30. Past 30-day marijuana use, 18- to 25-year-olds, 2005/06 – 2018/19: NSDUH**

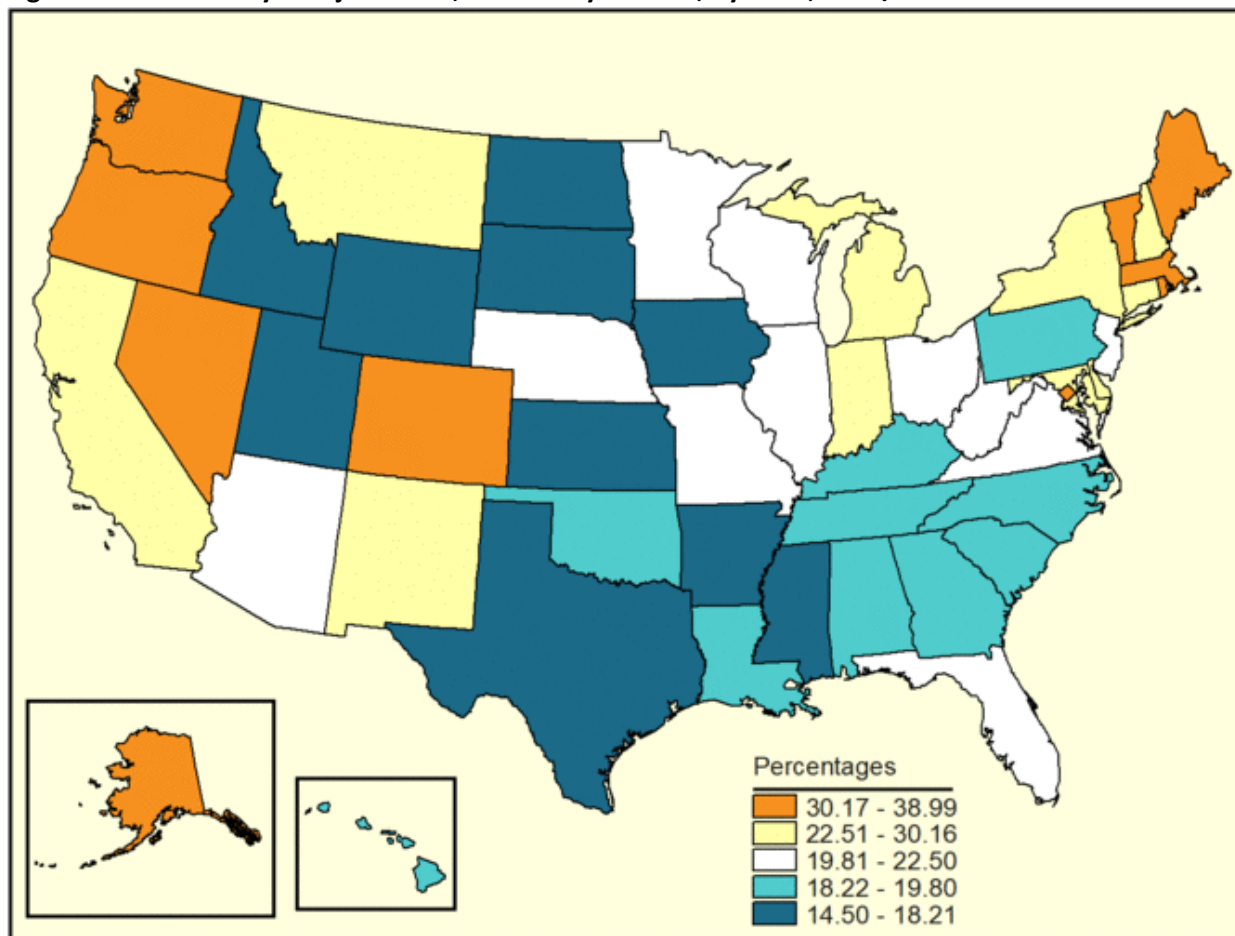


Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, available at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

<sup>51</sup> The exact number of survey respondents varies by year but has varied between 1,200 and 1,400 for the period 2005/06 to 2018/19. See the Substance Abuse and Mental Health Services Administration, 2015-2016 National Survey on Drug Use and Health: Guide to State Tables and Summary of Small Area Estimation Methodology, Table C-10, available at <https://www.samhsa.gov/data/report/2018-2019-nsduh-guide-state-tables-and-summary-sae-methodology>

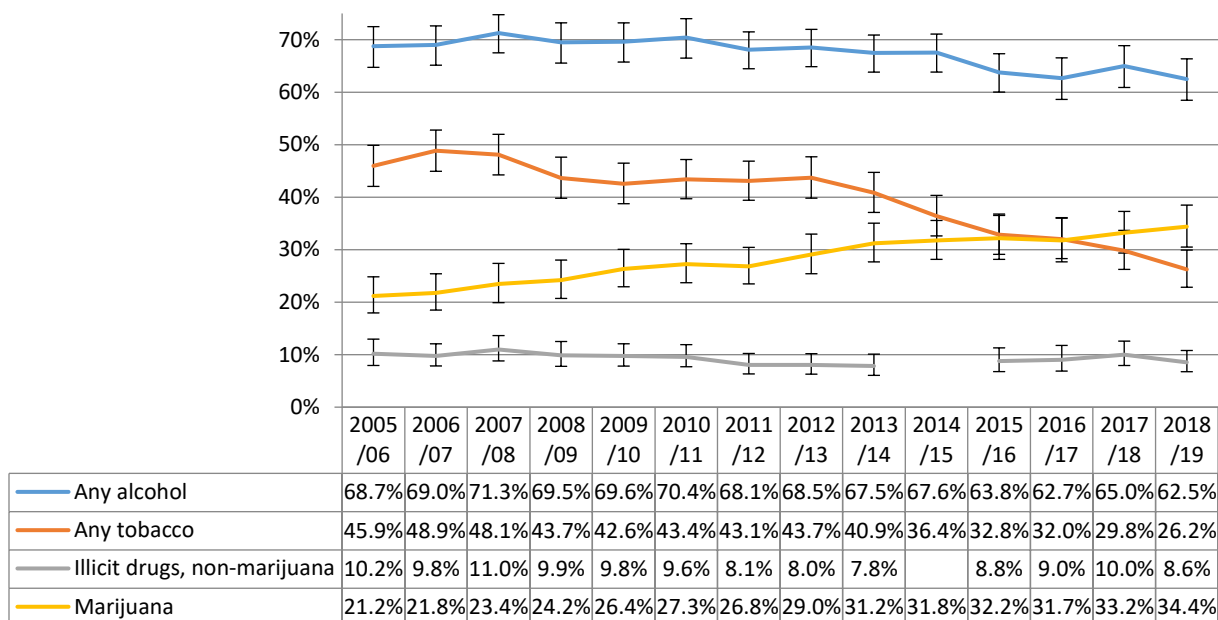
<sup>52</sup> See the Substance Abuse and Mental Health Services Administration, 2018-2019 National Survey on Drug Use and Health: P-value Tables for a detailed statistical comparison of states, <https://www.samhsa.gov/data/report/comparison-2017-2018-and-2018-2019-nsduh-population-percentages-50-states-and-district>

Figure 31. Past 30-day marijuana use, 18- to 25-year-olds, by state, 2018/2019



Source: Substance Abuse and Mental Health Services Administration (2020), National Survey on Drug Use and Health, *2018-19 National Survey on Drug Use and Health National Maps of Prevalence Estimates, by State*. Available at <https://www.samhsa.gov/data/report/2018-2019-nsduh-national-maps-prevalence-estimates-state>

**Figure 32. Past 30-day substance use, 18- to 25-year-olds, 2005/06–2018/19: NSDUH**

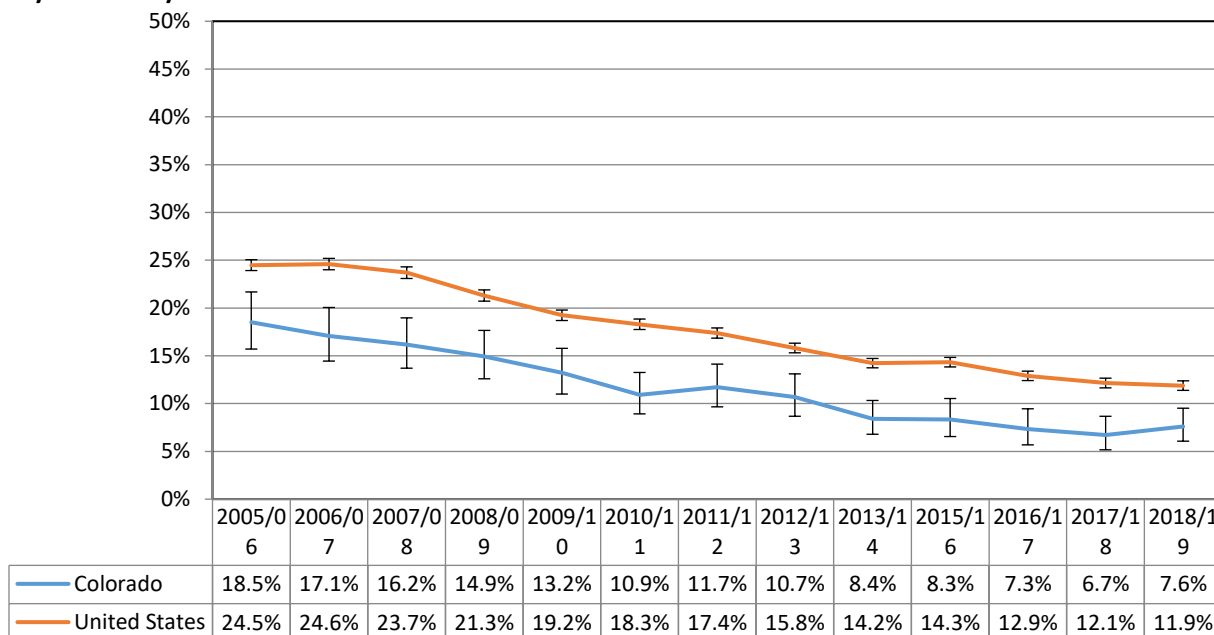


Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, available at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

Note: NSDUH did not produce an estimate for illicit drugs other than marijuana in 2014/15.

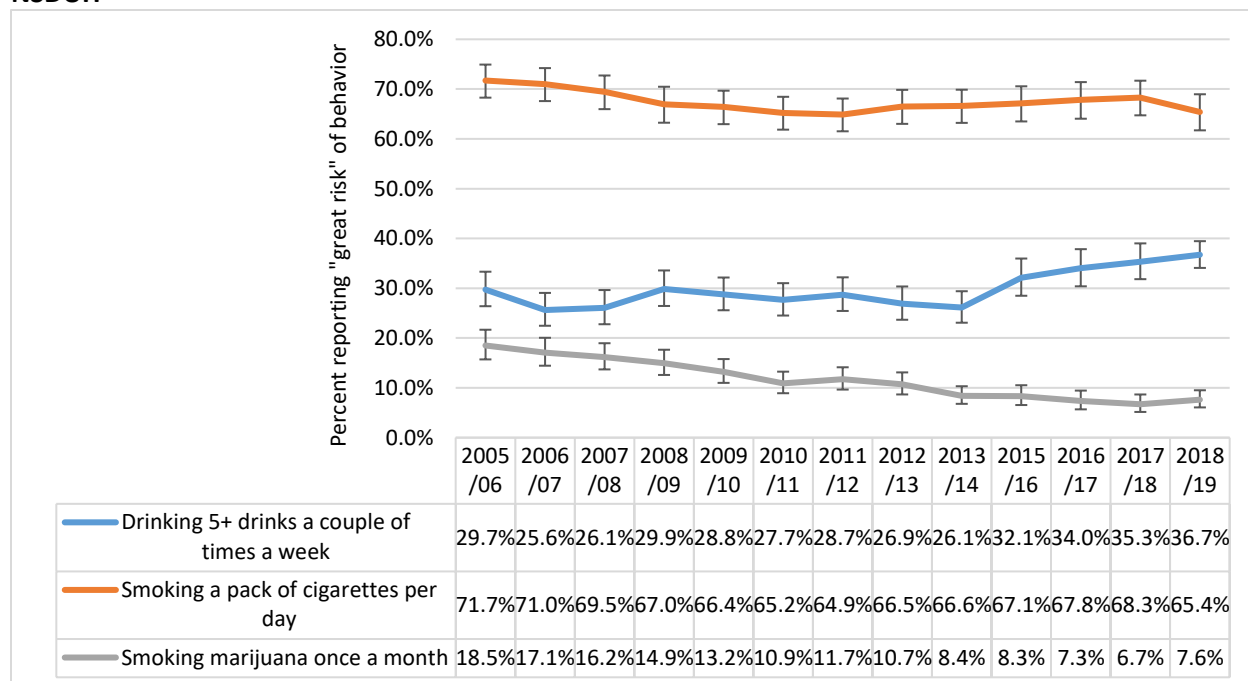
The perception of great risk from once-per-month marijuana use decreased significantly in young adults in Colorado, from 18.5% to 7.6% in the period from 2005/06 to 2018/19 (Figure 33). The national average also went down significantly, from 24.5% to 11.9%. The perception of risk among Colorado residents has been lower than the national average and both have decreased over time. The gap between the nation's perception of risk and Colorado's has remained relatively stable at between 4% and 6%. The perception of great risk for smoking a pack of cigarettes a day has remained stable while perceived risk for regular binge drinking increased from 26.1% in 2013/14 to 36.7% in 2018/19. Both of these are considered a higher risk than once-per-month marijuana use (Figure 34).

**Figure 33. Perception of great risk for using marijuana once a month, 18- to 25-year-olds, 2005/06 – 2018/19: NSDUH**



Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

**Figure 34. Perception of great risk for using various substances, 18- to 25-year-olds, 2005/06–2018/19: NSDUH**

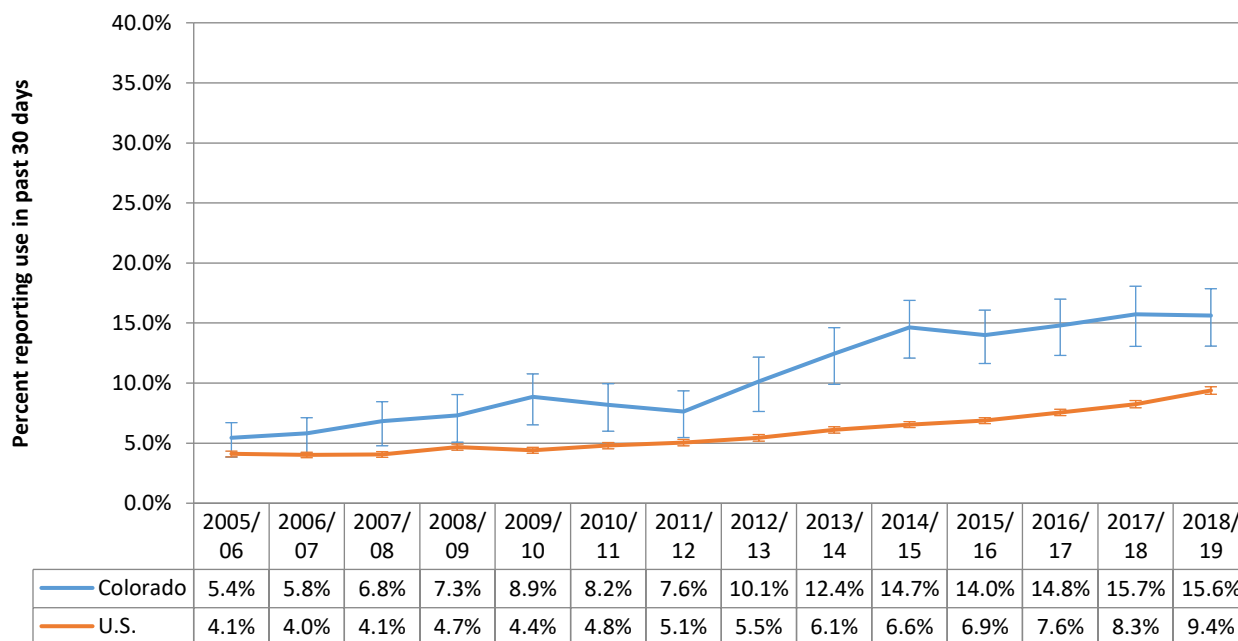


Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, available at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

### Adult Trends (26 Years or Older)

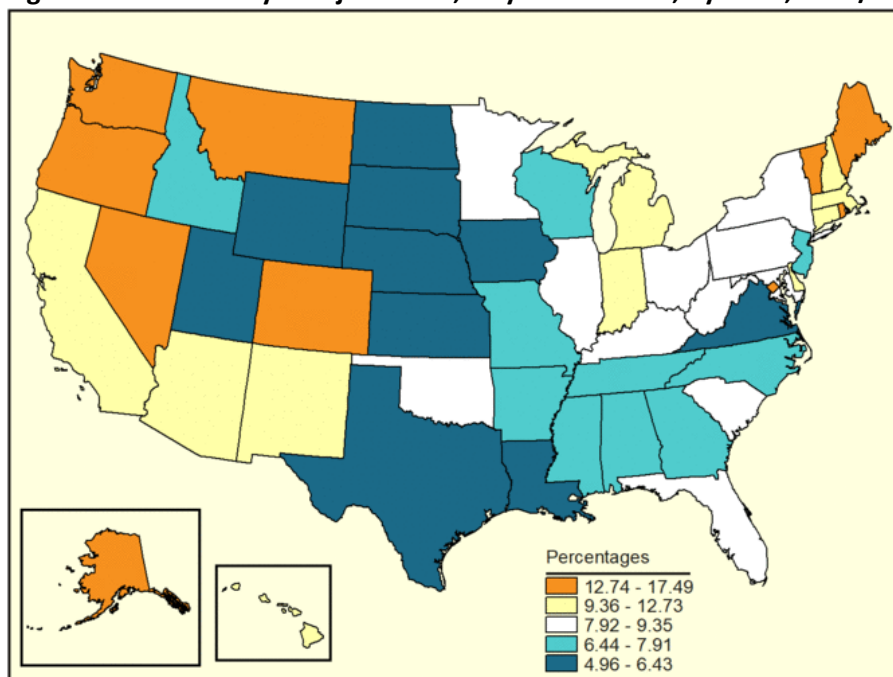
Reported past 30-day marijuana use by adults in Colorado increased considerably from 5.4% in 2005/06 to 15.6% in 2018/19 (Figure 35). The prevalence of past 30-day marijuana use in has not changed significantly since 2014/15. When compared to national figures on past 30-day marijuana use, Colorado showed a consistently higher prevalence of recent marijuana use. Adult use also increased significantly at the national level, but the gap between the two rates widened from about a 1% difference in 2005/06 to a more than 6% difference in 2018/19. A map comparing the past 30-day use of those 26 years of age and older by state can be seen in Figure 36. Colorado had a higher prevalence of past 30-day use among adults compared to most other states. The prevalence trends for alcohol, cigarette, and other illicit drug use showed no appreciable changes over this same period (Figure 37). The prevalence of past 30-day marijuana use (15.6%) was significantly lower than alcohol use (65.3%) or tobacco use (21.7%).

**Figure 35. Past 30-day marijuana use, 26 years or older, 2005/06 – 2018/19: NSDUH**



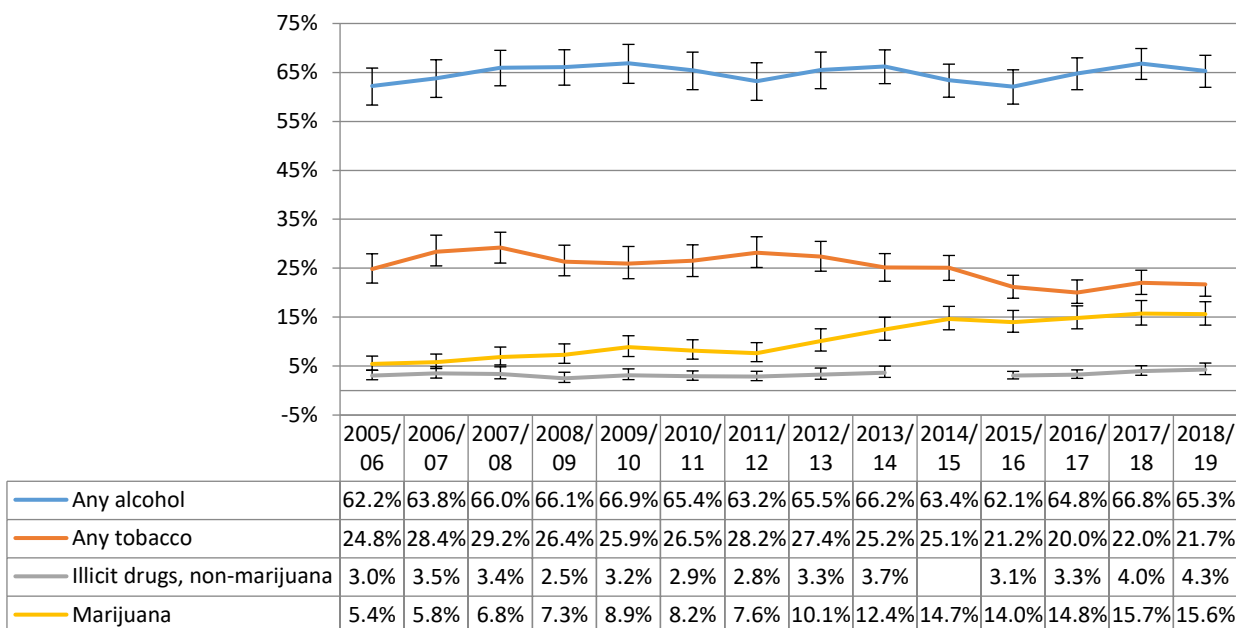
Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, available at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

**Figure 36. Past 30-day marijuana use, 26 years or older, by state, 2018/19: NSDUH**



Source: Substance Abuse and Mental Health Services Administration (2020), National Survey on Drug Use and Health, 2018-19 National Survey on Drug Use and Health National Maps of Prevalence Estimates, by State. Available at <https://www.samhsa.gov/data/report/2018-2019-nsduh-national-maps-prevalence-estimates-state>

**Figure 37. Past 30-day substance use, 26 years or older, 2005/06 – 2018/19: NSDUH**

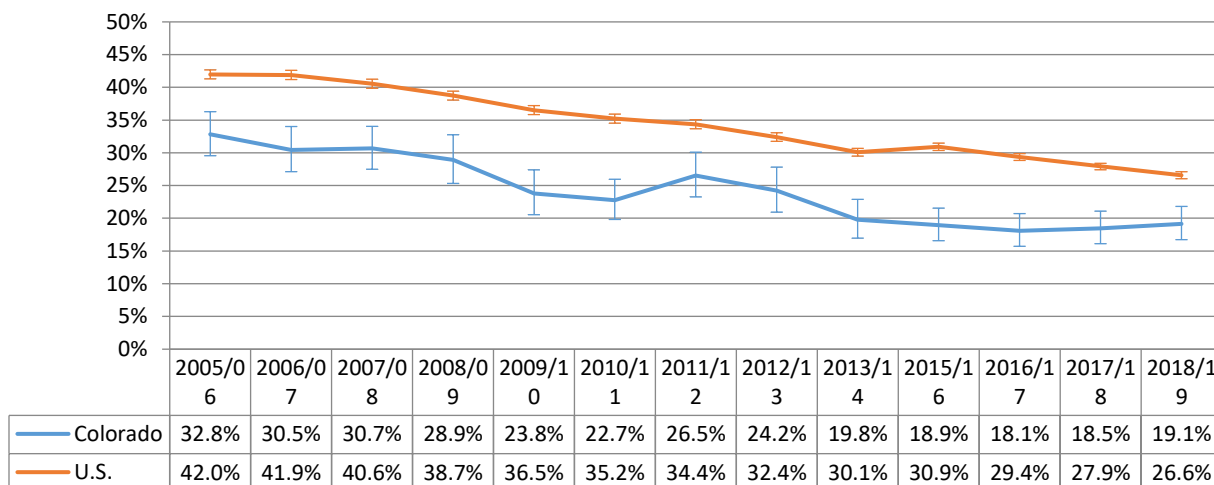


Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, available at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

Note: NSDUH did not produce an estimate for illicit drugs other than marijuana in 2014/15.

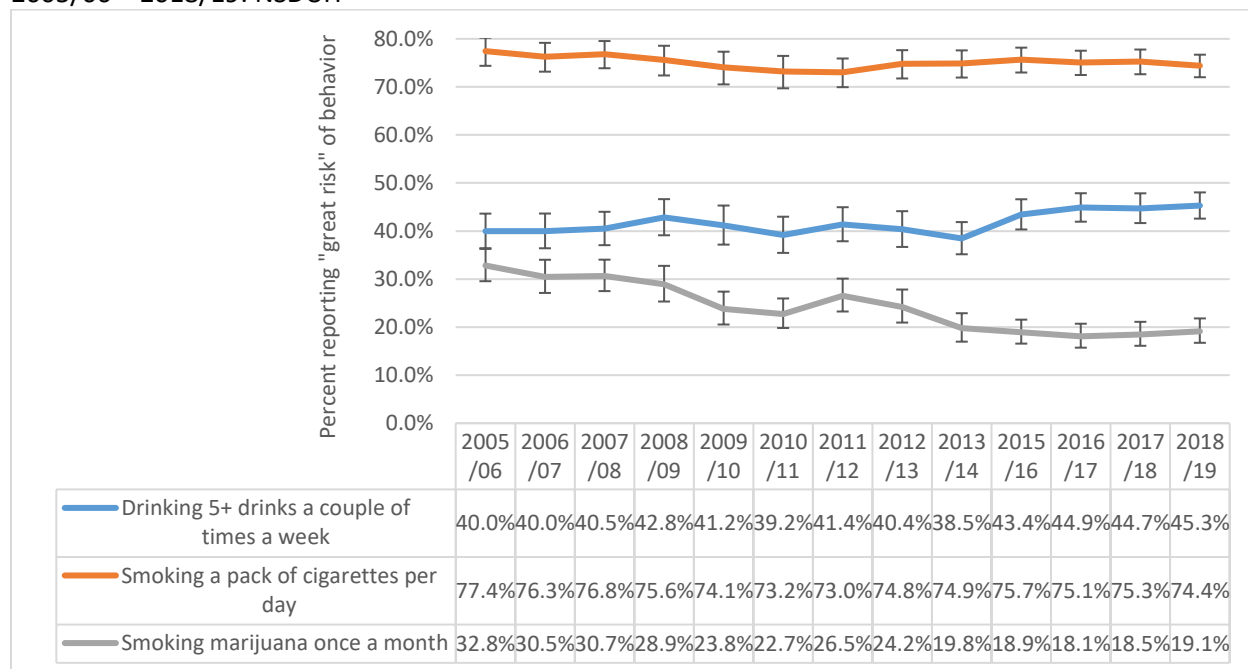
The perceived risk by adults from using marijuana once a month showed a significant decrease in Colorado, from 32.8% in 2005/06 to 19.1% in 2018/19 (Figure 38). The perception of great risk at the national level also decreased significantly, from 42.0% in 2005/06 to 26.6% in 2018/19. The gap between the nation’s perception of risk and Colorado’s has remained relatively stable over time. The perception of great risk for smoking a pack of cigarettes a day or regular binge drinking remained stable (Figure 39).

**Figure 38. Perception of great risk for using marijuana once a month, 26 years or older, 2005/06 – 2018/19: NSDUH**



Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, available at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

**Figure 39. Perception of great risk for using various substances, 26 years or older, 2005/06 – 2018/19: NSDUH**

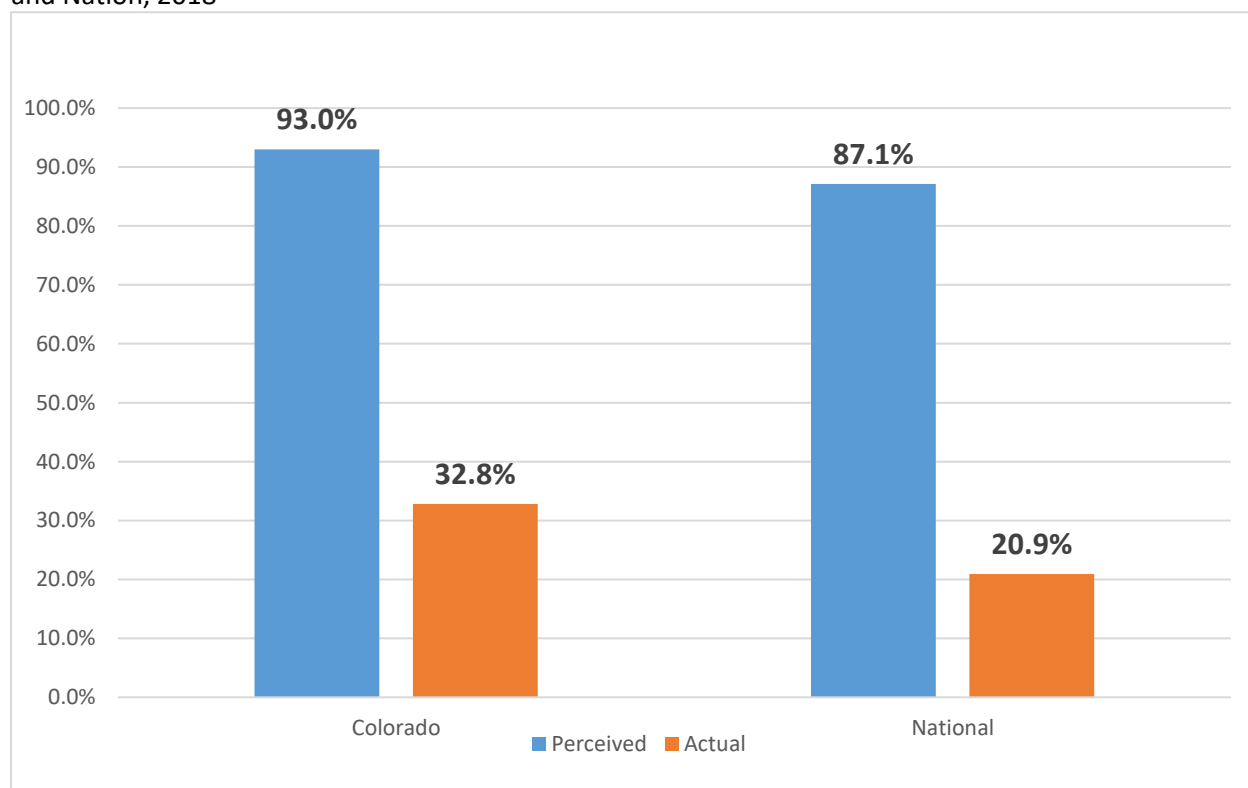


Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, available at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

## National College Health Assessment

The National College Health Assessment is an annual survey of universities and colleges that aims to collect data on physical and mental health, behavioral risk factors, sexual behavior, and drug use. Figure 40 presents reported 30-day marijuana use by Colorado college students compared to their perception of use by other students. While 93.0% of college students believed other students were current marijuana users, only 32.8% reported use in the past 30 days. Current marijuana use by Colorado college students was 12% higher than the national average.

Figure 40. Reported past 30-day marijuana use compared to perceived use by college students, Colorado and Nation, 2018



Source: Coalition of Colorado Campus Alcohol and Drug Educators (2020), National College Health Assessment survey. Available at <https://naspa.org/cade>

## Hospitalizations and Emergency Department Visits

CDPHE analyzed data provided by the Colorado Hospital Association (CHA) and categorized hospitalizations and emergency department visits with discharges containing a marijuana-related billing code. The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) discharge diagnosis codes were used to determine possible marijuana involvement from January 2000-September 2015. The revised International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) discharge diagnosis coding system was used from October 2015 and onward. The transition from ICD-9 to ICD-10 classification system increased the number of available marijuana codes. Due to changes in coding systems, variable structures, and policies at CHA, CDPHE

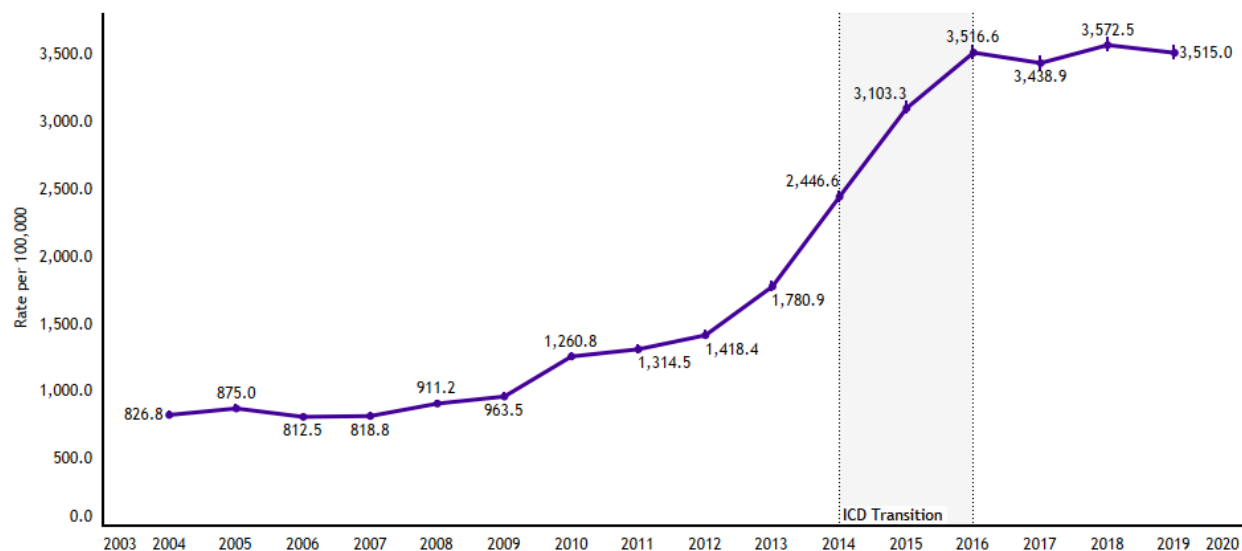


recommends caution in the interpretation of these data during this coding transition from 2014 to 2016. Additionally, the data are intended for billing purposes. Use of these codes does not mean that the encounter was motivated by marijuana exposure, but could also reflect changes in patient comfort in disclosing or provider screening practices.

The four ICD-9-CM codes used are: 305.2-Marijuana (Cannabis Abuse); 304.3-Marijuana (Cannabis Dependence); 969.6-Poisoning by psychodysleptics (hallucinogens); and E854.1-Accidental poisoning by psychodysleptics (hallucinogens). For the purposes of 969.6 and E854.1, hallucinogens can include cannabis, LSD, mescaline, and psilocybin (mushrooms). There are 53 separate codes for cannabis events in the ICD-10-CM coding system. All ICD-10-CM codes are specific to cannabis and include cannabis poisonings, use, abuse, and dependence. Inclusion of at least one marijuana related ICD-9/10-CM code in the up to 30 listed billing codes.

The findings presented in Figure 41 reflect three different eras of legalization in Colorado. The era of legal non-commercial medical marijuana (2003—2009), legal commercial medical marijuana (2010—2013), and legal commercial medical and retail marijuana (2014—2019). During the era of non-commercial medical marijuana the hospitalization rate rose 17% (826.8 in 2003 to 963.5 in 2009). The era of medical marijuana commercialization (2010—2013) reflected a 100% jump, to 1,780.9 per 100,000 hospitalizations. The period from 2014 to 2016 reflects a transition from the ICD-9-CM to ICD-10-CM billings codes. While there is an increase during that period it should be interpreted with caution, as many more possible codes were included in the new methodology. Since the transition to ICD-10 codes, there have been no significant changes in the hospitalization rates.

**Figure 41. Rates of hospitalizations with a marijuana-related billing code per 100,000 hospitalizations, 2003-2019**



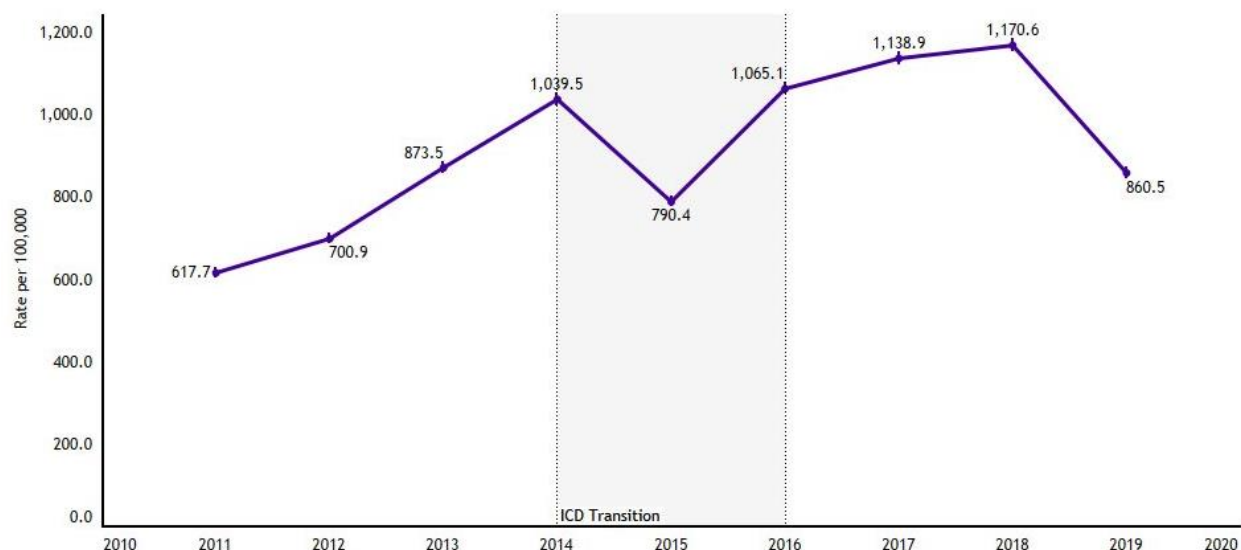
**Figure Notes:** The dotted lines indicate the transition from ICD-9 to ICD-10 in October 2015. Use caution when interpreting rates between 2014 to 2016. See the marijuana glossary to understand more about billing code changes.

Source: Data provided by Colorado Hospital Association with analysis provided by Colorado Department of Public Health and Environment, Marijuana Health Monitoring Program. Available at <https://marijuanahealthinfo.colorado.gov/health-data/colorado-hospital-association-cha-data>

Notes: (1) An individual can be represented more than once in the hospitalization data; therefore, the rate is hospitalizations with marijuana codes per 100,000 total hospitalizations; (2) The period from October 2015 onward should be interpreted with caution due to the changes in coding schemes.

The data on Emergency Department (ED) visits are limited due to changes in reporting methods from the period prior to 2010 (Figure 42). There was a significant rate increase during the era of medical commercialization, from 617.7 in 2011 to 1039.5 in 2014. In the period after the transition to ICD-10-CM there was an initial increase which reversed in 2019.

**Figure 42. Rates of emergency department visits with a marijuana-related billing code per 100,000 emergency department visits, 2010-2019**



**Figure Notes:** The dotted lines indicate the transition from ICD-9 to ICD-10 in October 2015. Use caution when interpreting rates between 2014 to 2016. See the marijuana glossary to understand more about billing code changes.

Source: Data provided by Colorado Hospital Association with analysis provided by Colorado Department of Public Health and Environment, Marijuana Health Monitoring Program. Available at <https://marijuanahealthinfo.colorado.gov/health-data/colorado-hospital-association-cha-data>

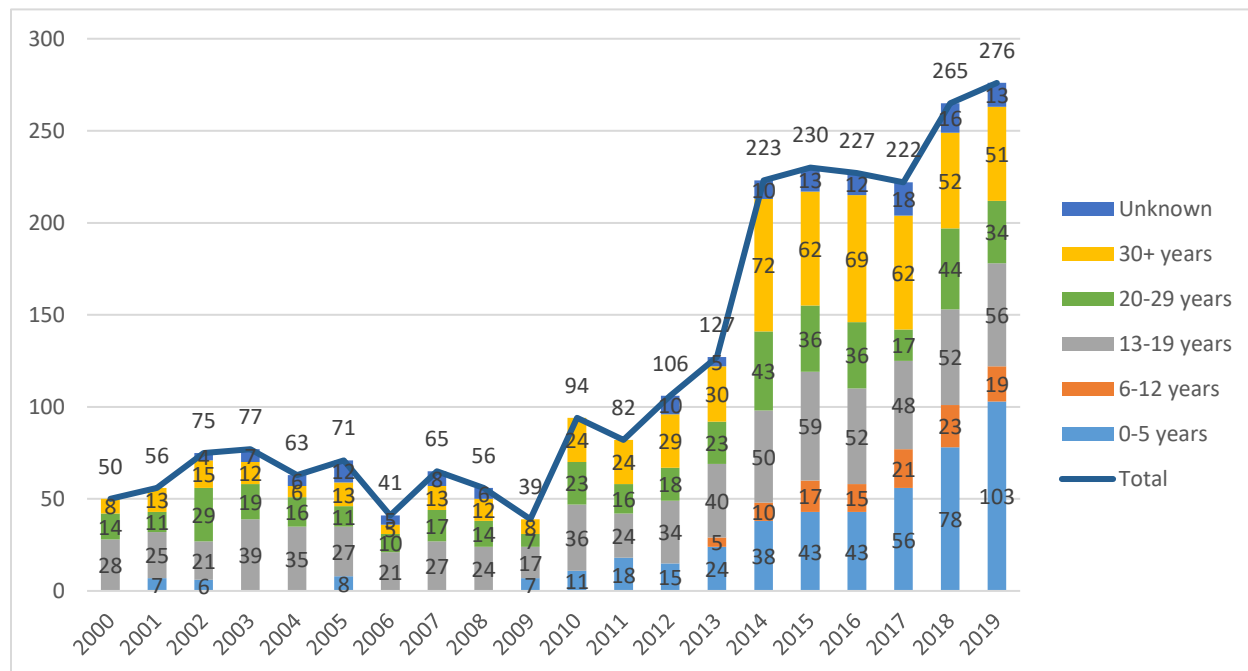
Notes: (1) An individual can be represented more than once in the emergency department visit data; therefore, the rate is emergency department visits with marijuana codes per 100,000 total emergency department visits; (2) The period from October 2015 onward should be interpreted with caution due to the changes in coding schemes.

## Poison Control

The Rocky Mountain Poison and Drug Center (RMPDC) provided data on marijuana<sup>53</sup> exposures to CDPHE for analysis. The number of human exposures reported to poison control mentioning marijuana increased immediately after the legalization of recreational marijuana (Figure 43), with 106 calls in 2012 and 223 in 2014. These increases stabilized during 2014-2017. The initial increases occurred across all age groups, with the biggest jumps occurring in the 5-year-old and younger age group (15 in 2012 to 103 in 2019), and the 30 and older group (29 in 2012 to 51 in 2019). The total increases were most notable in two years: 2010 (+55 from 2009) and 2014 (+96 from 2013). The number of exposures remained consistent from 2014 (n=223) to 2017 (n=222) but increased significantly by 2019 (n=276).

<sup>53</sup> Beginning in 2018 CBD only was added as an exposure code.

**Figure 43. Human marijuana exposures reported to Rocky Mountain Poison and Drug Center, by age group, 2000–2019**



Source: Colorado Department of Public Health and Environment (2020), available at <https://marijuanahealthinfo.colorado.gov/poison-center-data>

Note: Human marijuana exposures reported to RMPDC were determined by the presence of the generic code “Marijuana-0083000” from the National Poison Data System.

The RMPDC began collecting additional data about marijuana exposures in mid-2014. CDPHE revised this reporting in 2017 and only data from 2017 through 2019 are available. Table 29 presents the types of marijuana exposures by type of marijuana and age group. Overall, there have not been any discernible changes in the distribution of types of reported exposures since 2017.

**Table 29. Human marijuana exposures reported to Rocky Mountain Poison and Drug Center, by age group and marijuana type, 2017-2019**

| Age group & Type         | Number of cases |      |      | Percent of cases |      |      |
|--------------------------|-----------------|------|------|------------------|------|------|
|                          | 2017            | 2018 | 2019 | 2017             | 2018 | 2019 |
| <b>0-5 years</b>         |                 |      |      |                  |      |      |
| Total                    | 55              | 78   | 102  | 100%             | 100% | 100% |
| Plant                    | 11              | 7    | 15   | 20%              | 9%   | 15%  |
| Edible                   | 36              | 46   | 56   | 65%              | 59%  | 55%  |
| Concentrated Extract     | *               | *    | 10   | *                | *    | 10%  |
| Electronic Device/Liquid |                 | *    | *    |                  | *    | *    |
| Cannabidiol (CBD)        |                 | *    | 8    |                  | *    | 8%   |
| Other                    | 6               | 12   | 11   | 11%              | 15%  | 11%  |
| <b>6-12 years</b>        |                 |      |      |                  |      |      |
| Total                    | 21              | 22   | 19   | 100%             | 100% | 100% |
| Plant                    | 9               | *    | *    | 43%              | *    | *    |
| Electronic Device/Liquid |                 |      |      |                  |      |      |
| Concentrated Extract     | *               | *    |      | *                | *    | 0%   |
| Edible                   | 9               | 17   | 11   | 43%              | 77%  | 58%  |
| Cannabidiol (CBD)        |                 | *    | *    | 0%               | *    | *    |
| Other                    | *               |      | *    | *                | 0%   | *    |
| <b>13-19 years</b>       |                 |      |      |                  |      |      |
| Total                    | 48              | 53   | 56   | 100%             | 100% | 100% |
| Plant                    | 14              | 27   | 21   | 29%              | 51%  | 38%  |
| Edible                   | 16              | 16   | 17   | 33%              | 30%  | 30%  |
| Concentrated Extract     | 8               | *    | 9    | 17%              | *    | 16%  |
| Electronic Device/Liquid | *               | *    | *    | *                | *    | *    |
| Cannabidiol (CBD)        |                 |      |      | 0%               | 0%   | 0%   |
| Other                    | 9               | *    | 7    | 19%              | *    | 13%  |
| <b>20-29 years</b>       |                 |      |      |                  |      |      |
| Total                    | 17              | 46   | 34   | 100%             | 100% | 100% |
| Plant                    | 6               | 15   | 17   | 35%              | 33%  | 50%  |
| Edible                   | *               | 14   | 11   | *                | 30%  | 32%  |
| Concentrated Extract     | *               | 7    | 1    | *                | 15%  | 3%   |
| Electronic Device/Liquid |                 | *    | *    | 0%               | *    | *    |
| Cannabidiol (CBD)        |                 | *    |      | 0%               | *    | 0%   |
| Other                    | 6               | 6    | *    | 35%              | 13%  | *    |
| <b>30+ years</b>         |                 |      |      |                  |      |      |
| Total                    | 63              | 54   | 51   | 100%             | 100% | 100% |
| Plant                    | 22              | 22   | 11   | 35%              | 41%  | 22%  |
| Edible                   | 27              | 17   | 21   | 43%              | 31%  | 41%  |
| Concentrated Extract     | 6               | *    | *    | 10%              | *    | *    |
| Electronic Device/Liquid | *               |      | *    | *                | 0%   | *    |
| Cannabidiol (CBD)        | 5               | 5    | 11   | 8%               | 9%   | 22%  |
| Other                    | *               | 8    | 5    | *                | 15%  | 10%  |



| Age group & Type         | Number of cases |      |      | Percent of cases |      |      |
|--------------------------|-----------------|------|------|------------------|------|------|
|                          | 2017            | 2018 | 2019 | 2017             | 2018 | 2019 |
| <b>Unknown Age</b>       |                 |      |      |                  |      |      |
| Total                    | 18              | 16   | 13   | 100%             | 100% | 100% |
| Plant                    | 9               | 7    | 5    | 50%              | 44%  | 38%  |
| Edible                   | 7               | *    | 5    | 39%              | *    | 38%  |
| Concentrated Extract     | *               |      | *    | *                | 0%   | *    |
| Electronic Device/Liquid |                 | *    | *    | 0%               | *    | *    |
| Cannabidiol (CBD)        |                 | *    |      | 0%               | *    | 0%   |
| Other                    | *               | *    |      | *                | *    | 0%   |
| <b>Overall</b>           |                 |      |      |                  |      |      |
| Total                    | 222             | 269  | 275  | 100%             | 100% | 100% |
| Plant                    | 71              | 79   | 70   | 32%              | 29%  | 25%  |
| Edible                   | 90              | 97   | 110  | 41%              | 36%  | 40%  |
| Concentrated Extract     | 20              | 23   | 23   | 9%               | 9%   | 8%   |
| Electronic Device/Liquid | 11              | 23   | 21   | 5%               | 9%   | 8%   |
| Cannabidiol (CBD)        | 5               | 15   | 22   | 2%               | 6%   | 8%   |
| Other                    | 25              | 32   | 29   | 11%              | 12%  | 11%  |

Source: Colorado Department of Public Health & Environment (2020), available at <https://marijuanahealthinfo.colorado.gov/poison-center-data>

Note: Human marijuana exposures reported to RMPDC were determined by the presence of the generic code "Marijuana-0083000" from the National Poison Data System.

A \* indicates that there were fewer than five cases and must be suppressed.

## Treatment Trends

The Colorado Department of Human Services, Office of Behavioral Health (OBH), is required to collect and report substance use treatment data from licensed providers as a requirement of SAMHSA (Substance Abuse and Mental Health Service Administration) funding. The data are entered into OBH's Drug/Alcohol Coordinated Data System (DACODS) and are the source of the information provided below. These data include the top three substances of use, demographic characteristics, referral source, referral reason, time in treatment, client residence, and more.

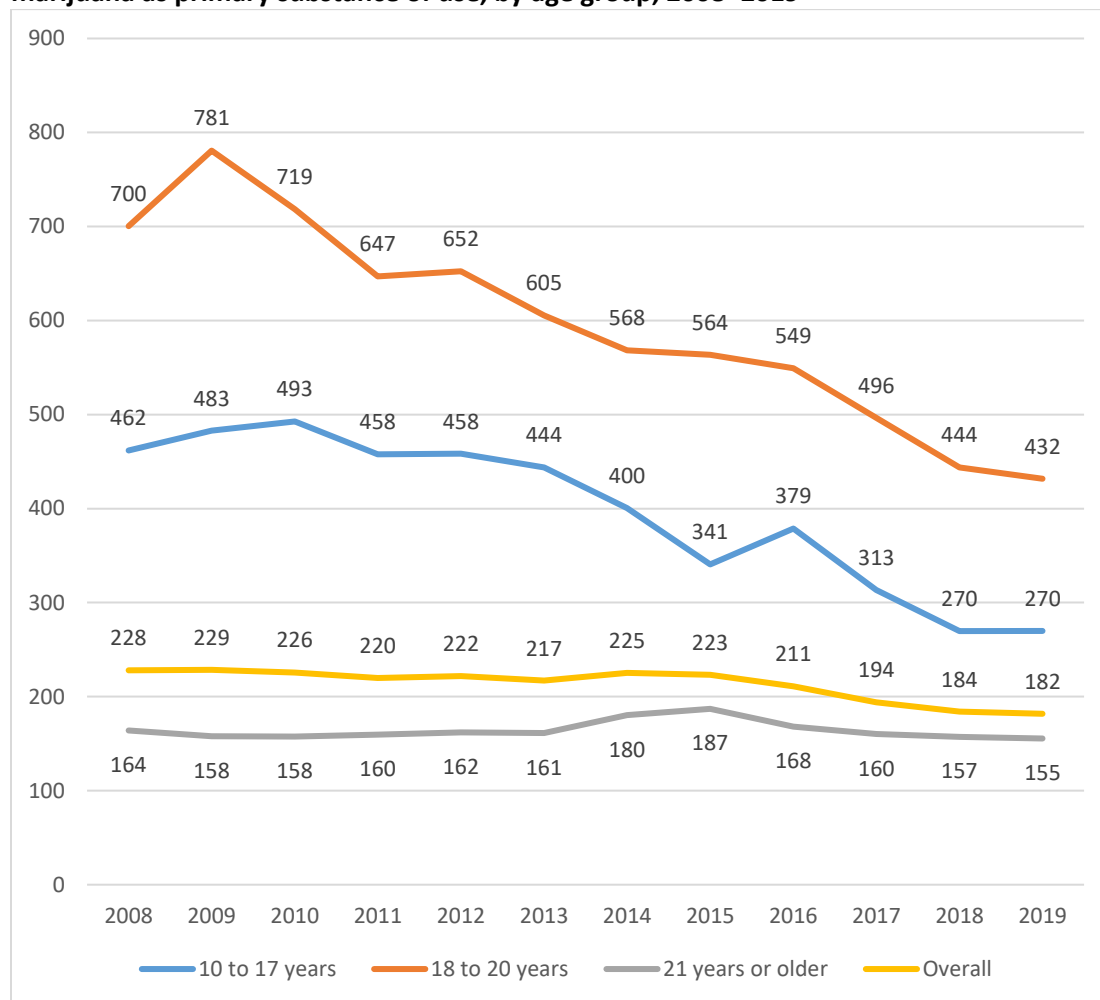
Treatment admission rates (per 100,000 population) and number of admissions with marijuana as the primary substance of use, broken out by age, are detailed in Figures 44 and 45.<sup>54, 55</sup> (For purposes of comparability across age groups, rates are presented.) The overall treatment admission rate for those reporting marijuana as the primary substance used has decreased, from 222 in 2012 to 182 in 2019. The treatment admission rate decreased 41% for those under 18, from 458 in 2012 to 270 admissions per 100,000 population in that age group in 2019 (Figure 44). The admission rate also decreased 34% for

<sup>54</sup> The 2016 versions of this report calculated treatment rates based on whether the patient reported marijuana as *any* of their top three drugs of abuse. After consultation with the Office of Behavioral Health, we changed our focus to only those patients reporting marijuana as their *primary* drug of abuse. Consequently, the rates presented in this report are lower than previously reported.

<sup>55</sup> For the purposes of this report all types of treatment types in the ADDSCODS database are being used. This includes in-patient treatment, out-patient treatment, STIRT, withdrawal management, DUI education/services, and differential assessment. Consequently, the numbers in this report may be somewhat higher than other reports from OBH that focus solely on in-patient and out-patient treatment.

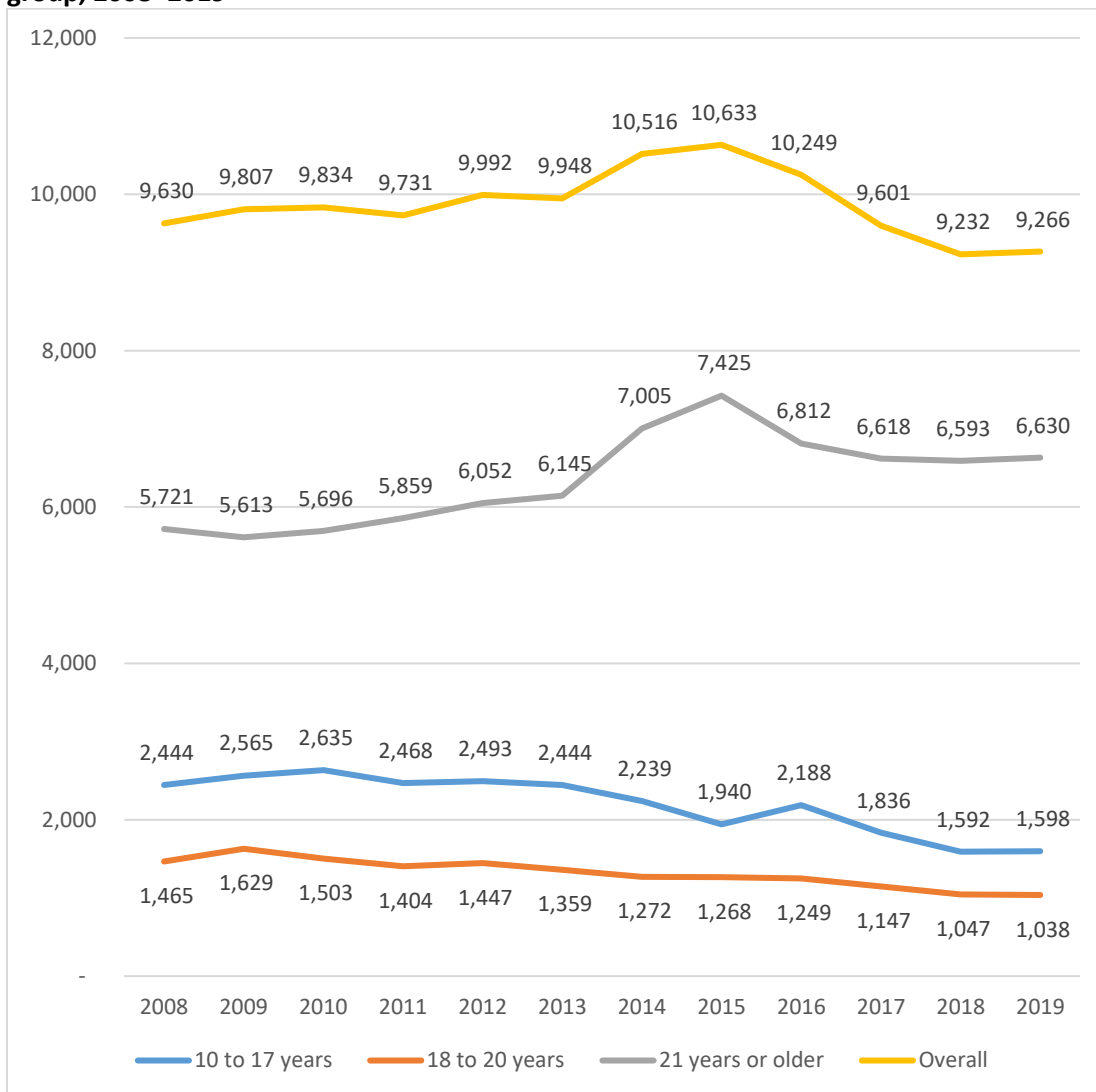
those in the 18–20 age group, from 652 admissions per 100,000 in 2012 to 432 in 2019. Patients 21 or over initially showed a slight increase in treatment rates, but the rates then declined, eventually down four percent from 162 per 100,000 in 2012 to 155 in 2019.

**Figure 44. Treatment admission rate (per 100,000 population in each age group) for those reporting marijuana as primary substance of use, by age group, 2008–2019**



Sources: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System; Colorado Department of Local Affairs, State Office of Demography. Analyzed by the Division of Criminal Justice.

**Figure 45. Number of treatment admissions reporting marijuana as primary substance of use, by age group, 2008–2019**

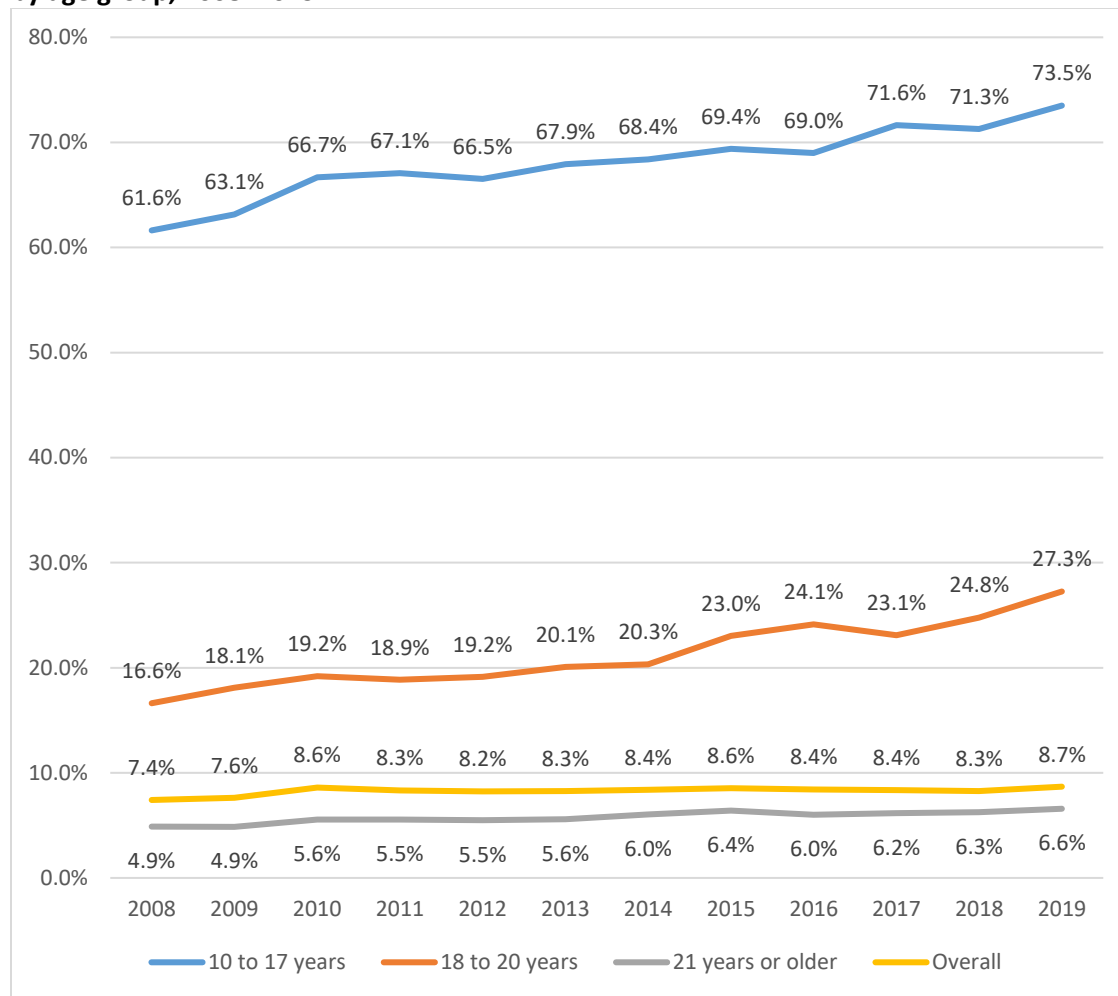


Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.



Marijuana was reported as the primary substance of use by 73.5% of youth under the age of 18 who were admitted for treatment in 2019 (Figure 46). This contrasts with 27.3% of 18- to 20-year-olds and 6.6% of adults 21 years or older. The percent reporting marijuana as their primary substance of use increased for both those under 18 and those 18- to 20-years old from 2012 to 2019.

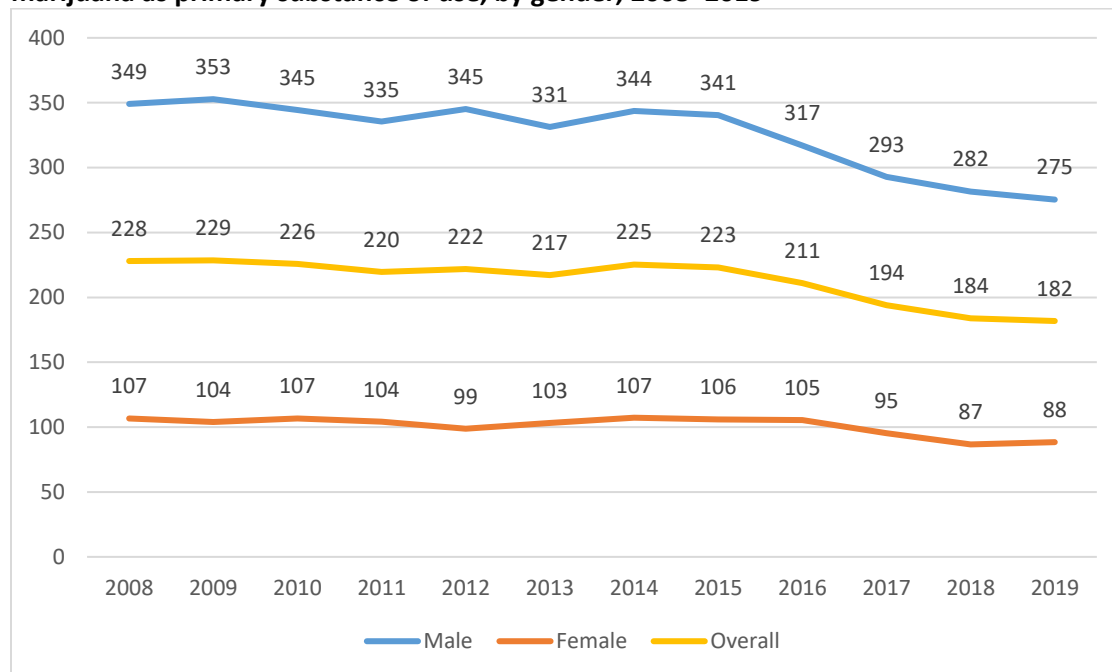
**Figure 46. Percent of treatment admissions with marijuana reported as the primary substance of use, by age group, 2008–2019**



Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.

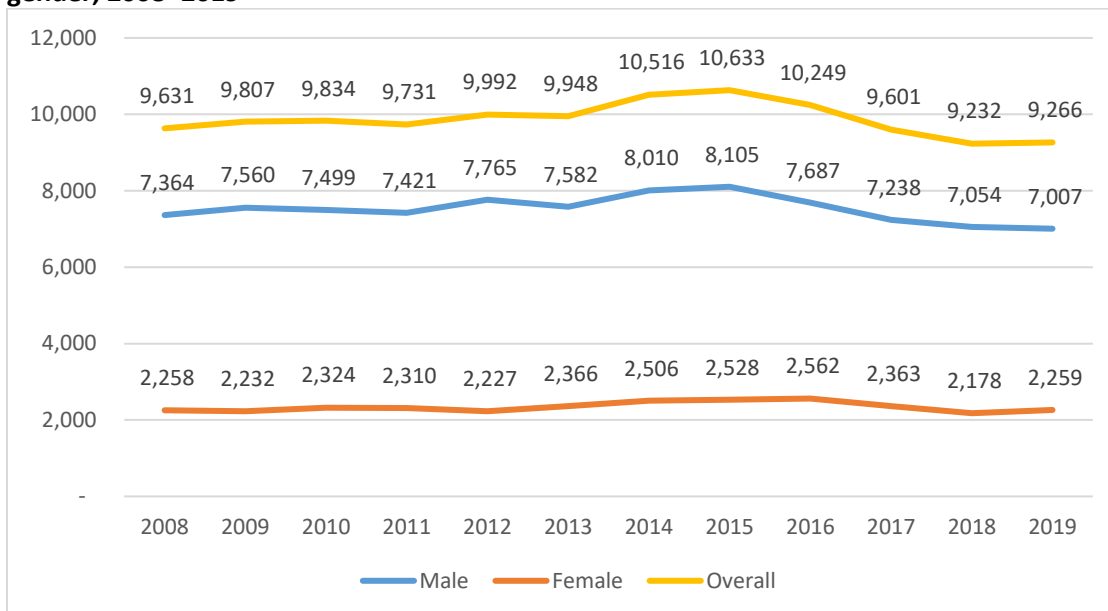
Treatment admission rates (per 100,000 population) and number of admissions with marijuana as the primary substance of use, broken out by gender, are detailed in Figures 47 and 48. (For purposes of comparability across gender, rates are presented.) The overall treatment admission rate for marijuana decreased 18% between 2012 and 2019, from 222 to 182, respectively. The treatment admission rate decreased 20% for males, from 345 in 2012 to 275 admissions per 100,000 population in 2019 (Figure 47). The admission rate decreased 11% for females, from 99 admissions per 100,000 in 2012 to 88 in 2019.

**Figure 47. Treatment admission rate (per 100,000 population in each age group) for those reporting marijuana as primary substance of use, by gender, 2008–2019**



Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.

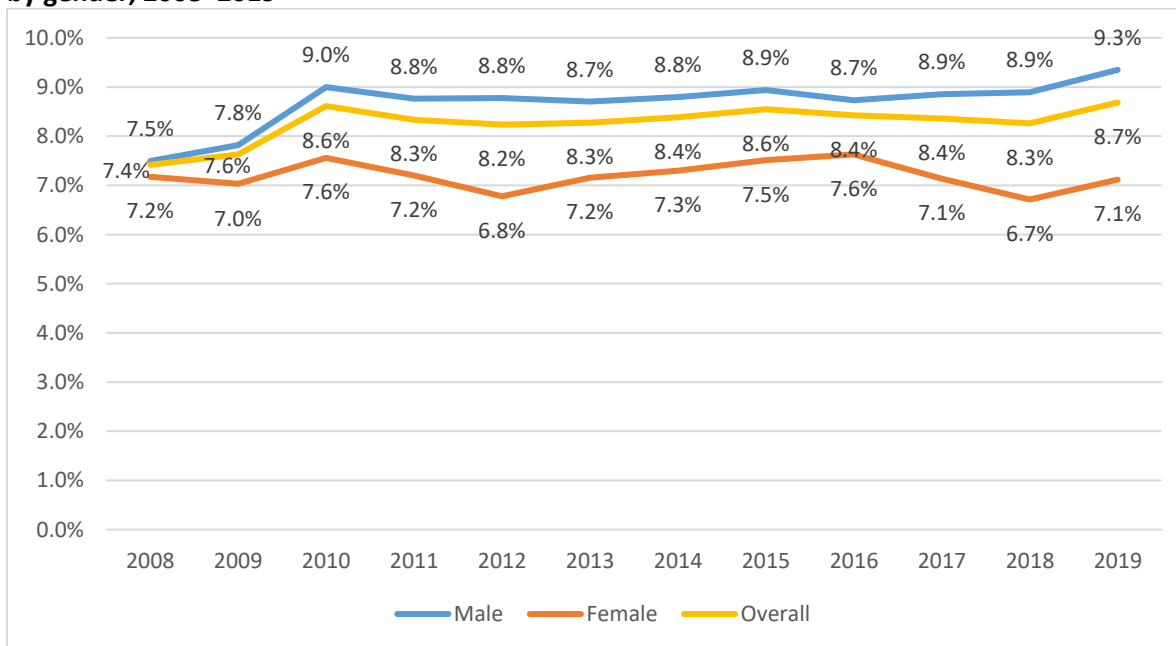
**Figure 48. Number of treatment admissions reporting marijuana as primary substance of use, by gender, 2008–2019**



Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.

Marijuana was reported as the primary substance of use by 8.7% of all treatment admissions and 9.3% of males admitted for treatment in 2019 (Figure 49). This contrasts with 7.1% of females in 2019.

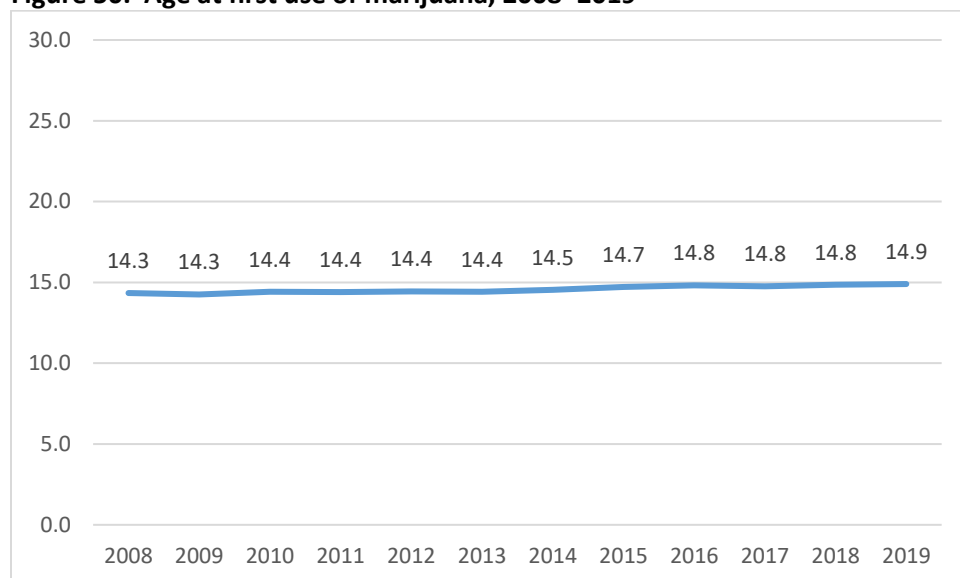
**Figure 49. Percent of treatment admissions with marijuana reported as the primary substance of use, by gender, 2008–2019**



Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.

The average age at first use for those seeking treatment for marijuana as a substance of use remained stable at 14.5–15.0 years (Figure 50) during the period 2008–2019.

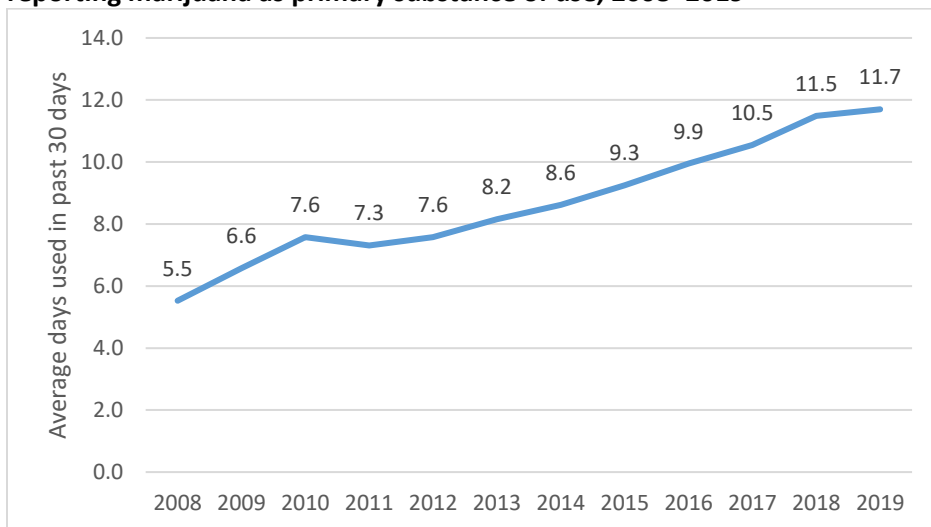
**Figure 50. Age at first use of marijuana, 2008–2019**



Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.

The DACODS collects information on frequency of substance use in the 30 days prior to treatment (Figure 51). The average frequency of past 30-day marijuana use in 2012 was 7.6 days, which increased to 11.7 days by 2019.

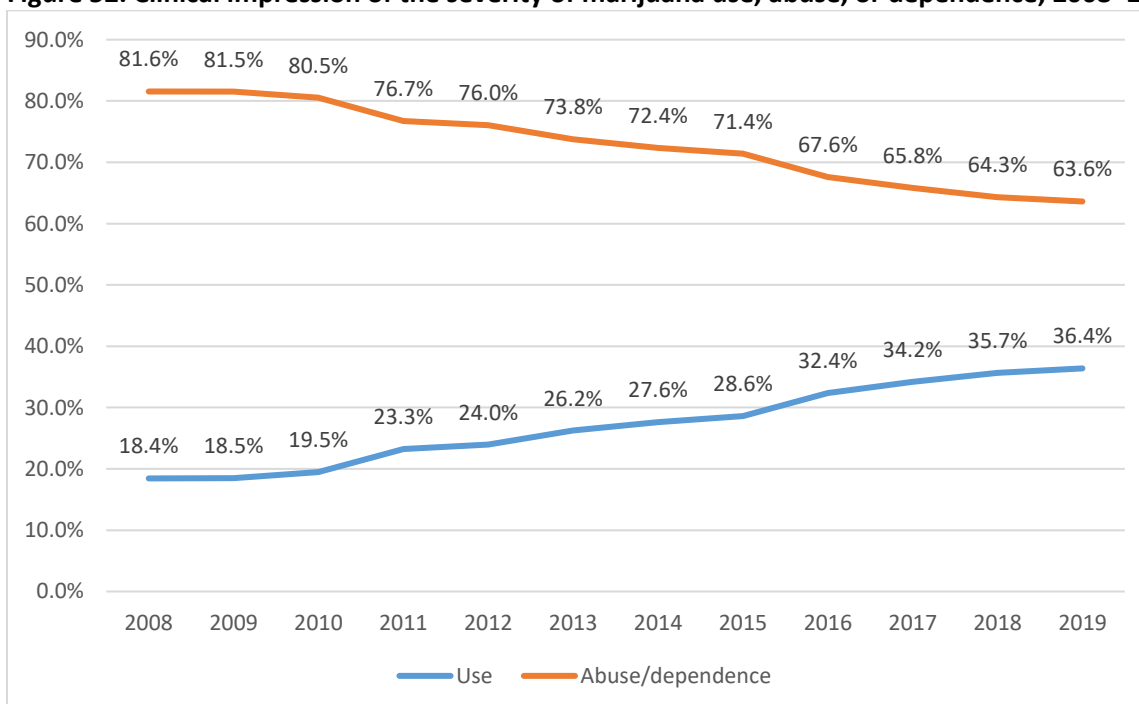
**Figure 51. Average number of days marijuana used past 30-days among clients reporting marijuana as primary substance of use, 2008–2019**



Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.

The trend in the clinical impression of the severity of marijuana use is presented in Figure 52. The clinical impression of ‘use’ increased from 24.0% of admissions in 2012 to 36.4% in 2019. The percentage reporting ‘abuse or dependence’ dropped from 76.0% in 2012 to 63.6% in 2019.

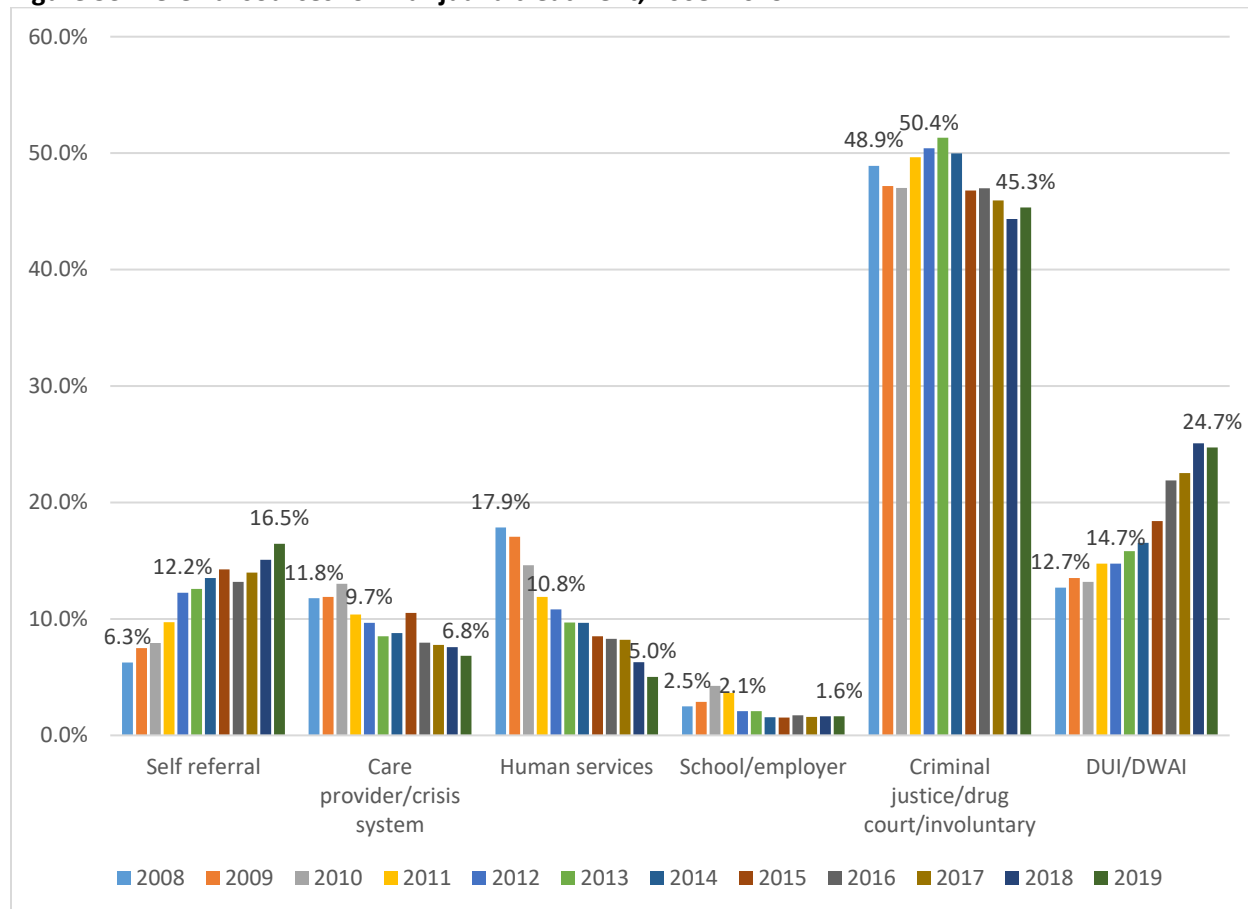
**Figure 52. Clinical impression of the severity of marijuana use, abuse, or dependence, 2008–2019**



Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.

Information on the referral source is presented in Figures 53. Referrals from the criminal justice system were the most common for the period 2008–2019, with 45.3% being referred by the criminal justice system/drug court and 24.7% referred for DUI treatment following a conviction. In this time period, self-referrals for marijuana treatment increased from 6.3% in 2008 to 16.5% in 2019 while referrals from other sources declined.

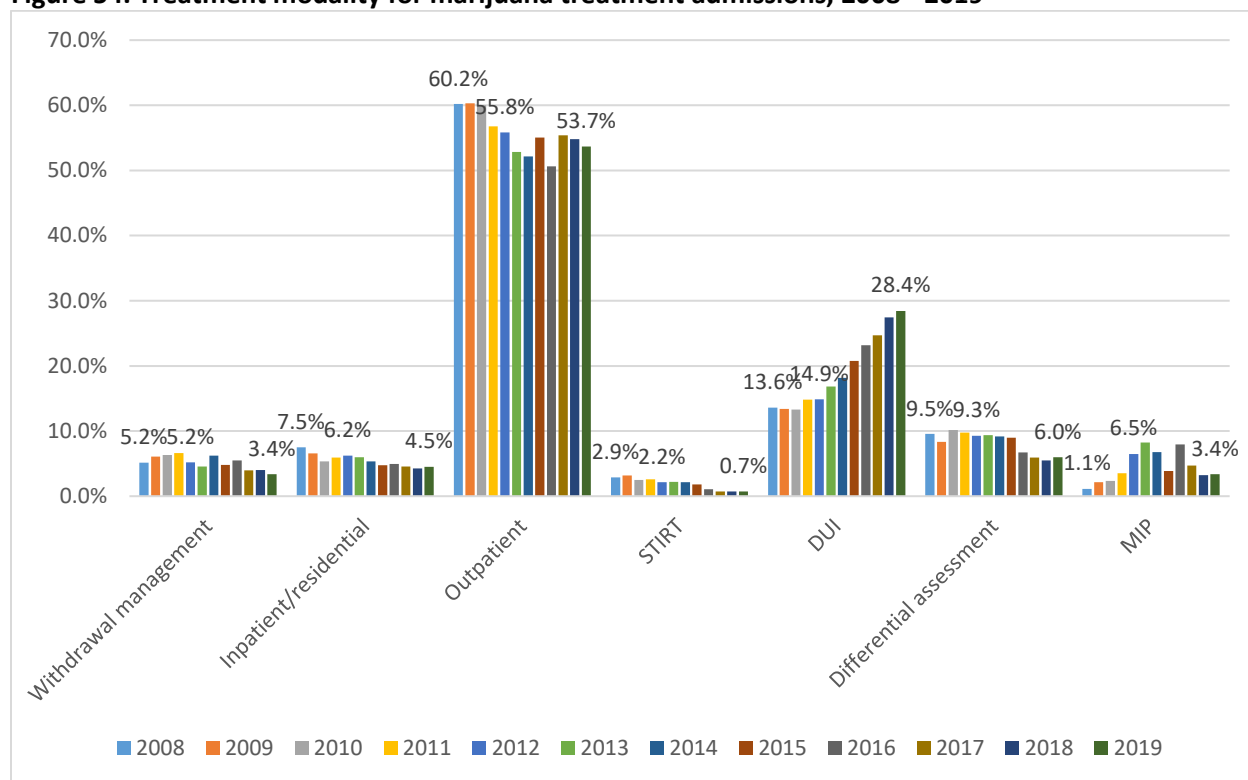
**Figure 53. Referral sources for marijuana treatment, 2008–2019**



Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.

The most common admission category across was outpatient treatment (Figure 54), with 53.7% of admissions occurring in this category. The second most common category was for DUI, where there has been a significant increase over the past five years, from 14.9% of admissions in 2012 to 28.4% in 2019.

**Figure 54. Treatment modality for marijuana treatment admissions, 2008–2019**

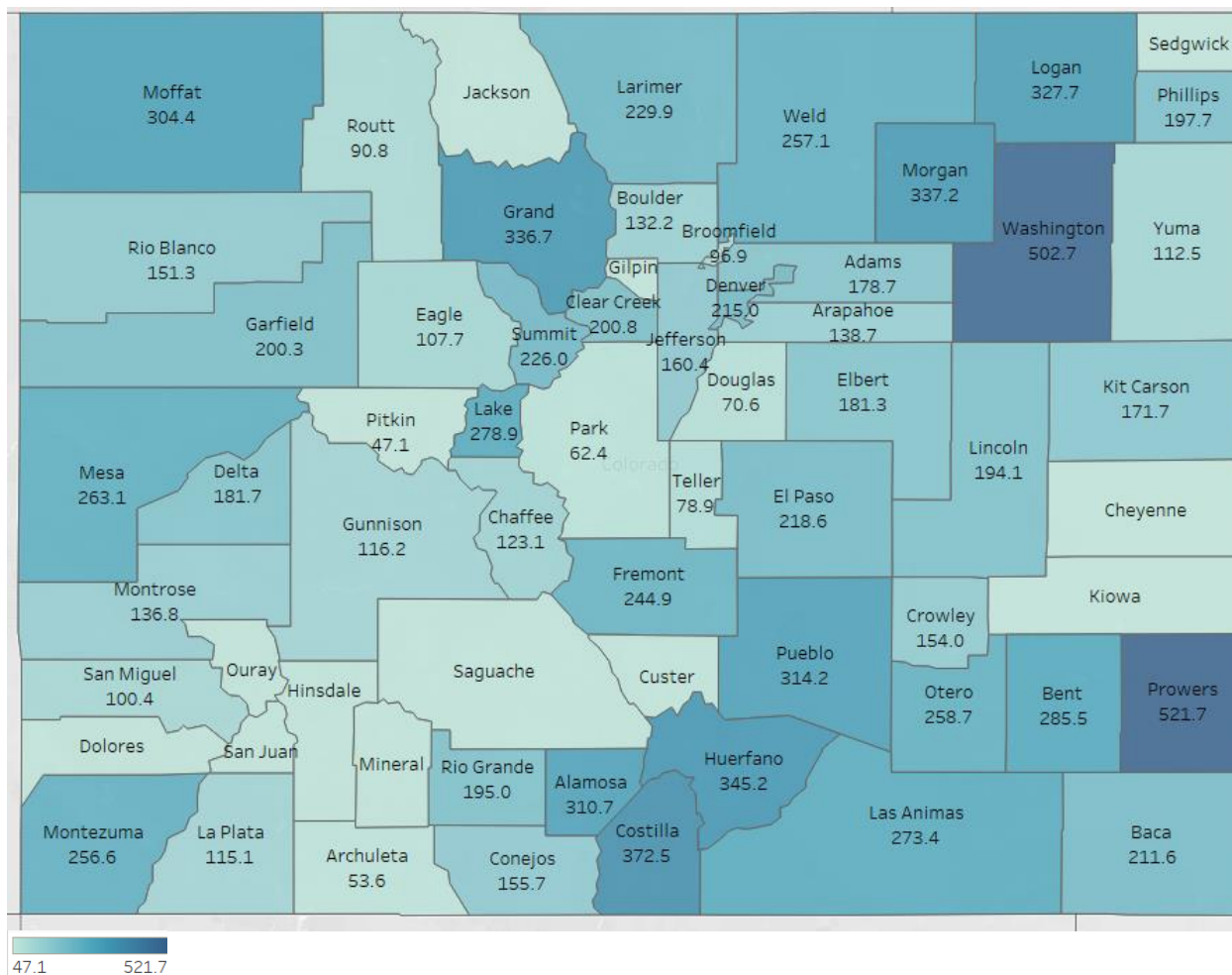


Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System. Analyzed by the Division of Criminal Justice.

Note: STIRT is Strategic Intensive Remediation Treatment.

A geographic breakdown of treatment admissions in the period 2015-2019 per 100,000 population of those ages 10 and over is presented in Figure 55. The county rates presented in Figure 55 aggregate five years of data in order to maintain client confidentiality in smaller counties. Counties with the highest treatment rates include Prowers (521.7), Washington, (502.7), and Costilla (372.5). Of the larger counties, Pueblo had the highest rate (314.2), followed by Mesa (263.1), and Weld (257.1).

**Figure 55. Treatment rates (per 100,000 population ages 10 and over) for marijuana as substance of use, by county, 2015-2019**



Source: Colorado Department of Human Services, Office of Behavioral Health, Drug/Alcohol Coordinated Data System; Colorado Department of Local Affairs, State Office of Demography. Analyzed by the Division of Criminal Justice.

Note: Counties with no treatment rates noted did not meet the suppression criteria of 30 treatment admissions for marijuana as the primary substance of use. A five-year aggregate was used in an attempt to minimize the number of counties suppressed for not meeting these criteria. These data suppression criteria are in place to maintain client confidentiality in areas with smaller populations.

### Suicide Rate Trends

The trend in the overall suicide rate and information on toxicology results from coroners is presented in Table 30. The overall age-adjusted rate has remained relatively stable since 2012. The prevalence of positive marijuana tests increased from 11.8% in 2012 to 23.3% in 2018. There was no clear trend in the percent of deaths by suicide testing positive for alcohol or opiates.

The variable "Marijuana Present" could indicate toxicology tests were positive for Delta-9 THC, 11-OH-THC, or THC-COOH, so this factor alone is not indicative of intoxication or impairment at time of death, nor can it be interpreted as causal. It is possible that other substances (including alcohol) were present in addition to marijuana, which makes it difficult to conclusively state marijuana played a role in the death.



**Table 30. Suicides in Colorado, by age-adjusted rate and select toxicology results, 2006-2018**

| Year | N suicides | Overall crude rate | Overall age-adjusted rate | N with toxicology available | N marijuana present | % marijuana present | N alcohol present | % alcohol present | N opiates present | % opiates present |
|------|------------|--------------------|---------------------------|-----------------------------|---------------------|---------------------|-------------------|-------------------|-------------------|-------------------|
| 2006 | 711        | 15.0               | 14.8                      | 585                         | 44                  | 7.5%                | 206               | 35.2%             | 57                | 9.7%              |
| 2007 | 807        | 16.7               | 16.5                      | 767                         | 70                  | 9.1%                | 273               | 35.6%             | 123               | 16.0%             |
| 2008 | 799        | 16.2               | 15.9                      | 776                         | 58                  | 7.5%                | 275               | 35.4%             | 110               | 14.2%             |
| 2009 | 919        | 18.3               | 18.2                      | 706                         | 50                  | 7.1%                | 247               | 35.0%             | 100               | 14.2%             |
| 2010 | 850        | 16.9               | 16.4                      | 818                         | 70                  | 8.6%                | 268               | 32.8%             | 111               | 13.6%             |
| 2011 | 884        | 17.3               | 16.9                      | 805                         | 62                  | 7.7%                | 282               | 35.0%             | 109               | 13.5%             |
| 2012 | 1,021      | 19.7               | 19.0                      | 729                         | 86                  | 11.8%               | 242               | 33.2%             | 126               | 17.3%             |
| 2013 | 996        | 18.9               | 18.3                      | 764                         | 105                 | 13.7%               | 260               | 34.0%             | 137               | 17.9%             |
| 2014 | 1,063      | 19.9               | 19.5                      | 817                         | 122                 | 14.9%               | 328               | 40.1%             | 176               | 21.5%             |
| 2015 | 1,066      | 19.6               | 19.0                      | 817                         | 156                 | 19.1%               | 298               | 36.5%             | 153               | 18.7%             |
| 2016 | 1,140      | 20.5               | 19.9                      | 860                         | 189                 | 22.0%               | 312               | 36.3%             | 163               | 19.0%             |
| 2017 | 1,145      | 20.4               | 19.7                      | 888                         | 201                 | 22.6%               | 331               | 37.3%             | 184               | 20.7%             |
| 2018 | 1,246      | 21.9               | 21.2                      | 937                         | 218                 | 23.3%               | 380               | 40.6%             | 142               | 15.2%             |

Source: Colorado Department of Public Health and Environment, Colorado Violent Death Reporting System. Available at <https://www.colorado.gov/pacific/cdphe/colorado-violent-death-reporting-system>

Note: Data obtained from Colorado suicide data dashboard. For additional information on data definitions please visit *Colorado Suicide Data Dashboard: Data Definitions and Functionality*. Available at <https://drive.google.com/file/d/1tzPZoZH3UFJ6nafbx3pak7bEA8CL1KkR/view>

The 2018 data is the most recent available from CDPHE due to a lag in reporting and creating publicly available datasets.

In sum, the impacts of marijuana legalization on public health in Colorado are still being assessed. The BRFSS survey of marijuana use show that among young adults' (18–25), past 30-day use increased from young adult use has not changed significantly since 2014. Past 30-day use among adults ages 26 and older increased from 19.8% in 2014 to 29.4% in 2019. Past 30-day use by adults 65 or older is tripled, from 3.0% in 2014 to 9.3% in 2019. Since 2000, rates of hospitalizations and emergency department visits possibly related to marijuana increased, as have the number of calls to poison control. The next section provides information on the impact of marijuana legalization on youth.

## SECTION FOUR

### IMPACT ON YOUTH

#### Overview

This section focuses on the impact of marijuana legalization on youth under the age of 18. The topics include youth use, diversion of marijuana to youth, youth arrests, comprehensive school information, drug-endangered children,<sup>56</sup> and other potential impacts.

Information regarding youth marijuana use was obtained from surveys that ask students about drug use and other risky behavior. The Healthy Kids Colorado Survey (HKCS) is a biennial survey administered to high school and middle school youth by the Colorado Department of Public Health and Environment (CDPHE). The 2019 HKCS surveyed more than 53,000 high and middle school students. The National Survey on Drug Use and Health (NSDUH) is administered annually to those ages 12 and older by the federal Substance Abuse and Mental Health Services Administration. SAMHSA produces state-level estimates from a two-year rolling sample. The two-year prevalence rates for Colorado residents 12 to 17 years old were based on weighted estimates from between 500 to 650 survey respondents.

The public safety impacts are examined by using official offense and arrest data from the Colorado Bureau of Investigation, court filings data, and drug testing information from the State Division of Probation Services in the Judicial Branch.

Information about schools was gathered from discipline data made available by the Colorado Department of Education. These data include trends on suspensions, expulsions, and law enforcement referrals for drugs. The data system in place from 2004–2016 did not capture whether marijuana was the specific drug that led to the discipline, as it was grouped with all other drugs. In the 2016–2017 school year, marijuana was reported separately as a reason for school discipline.<sup>57</sup> However, since the most commonly used illicit drug in the youth population is marijuana, changes in drug discipline trends can logically be linked to changes in marijuana use. Discussions with school administrators and the 2016–2017 analysis results support this assumption.

The impact of retail marijuana on drug-endangered children is difficult to answer. The term “drug-endangered children” has not been defined by the legislature, and identifying relevant data is problematic. The Department of Human Services, Division of Child Welfare does not collect specific information on whether drug use or abuse is a contributing factor for at-risk families. Nevertheless, a few data elements may be informative. The CDPHE’s Colorado Behavioral Risk Factor Surveillance System (BRFSS) is a group of health-related telephone surveys that collect data from residents regarding their health-related risk behaviors, chronic health conditions, and use of preventive services. The Child Health Survey is a component of the BRFSS that asks parents, with children ages 1-14, about various behaviors, including parental marijuana usage and marijuana storage in the home. Questions about

<sup>56</sup> Senate Bill 2013-283, which mandated this report, included drug-endangered children in the list of topics to study.

<sup>57</sup>The 2015–2016 school year was the first in which marijuana was recorded as a discipline reason, but it was not reported for the full year.

marijuana were first added in 2014. The CDPHE's Pregnancy Risk Assessment Monitoring System (PRAMS) is a surveillance system designed to identify and monitor behaviors and experiences of women before, during, and after pregnancy. Information about marijuana use before, during, and after pregnancy is collected by surveying a sample of women who have recently given birth.

## Youth Use

### Survey Data

#### *Healthy Kids Colorado Survey*

The CDPHE's Healthy Kids Colorado Survey (HKCS) collects health information biennially (every odd year) from thousands of Colorado public school high school and middle school students.<sup>58</sup> Surveys are completed by students from a random sample of selected schools and randomly selected classrooms within those schools. Results are weighted to represent student enrollment in all Colorado public high schools (2005, 2009, 2011, 2013, 2015, 2017, 2019) and public middle schools (2013, 2015, 2017, 2019). The HKCS and other sample-based surveys employ statistical weights to account for the fact that information is obtained from a sample and used to represent the larger population. The weights account for sampling design, school and student nonparticipation and nonresponse, and overall adjustments in grade, sex, and ethnicity that match the sample and the population.

A total of 53,520 randomly selected students from 195 randomly selected schools participated in the 2019 HKCS. The sample includes 46,537 students in 166 public high schools and 6,983 students in 29 public middle schools (Table 31).

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<sup>58</sup> More detailed information about the Healthy Kids Colorado Survey can be accessed at <https://cdphe.colorado.gov/hkcs>. HKCS is Colorado's version of the national Youth Risk Behavioral Survey (YRBS), a biennial survey overseen by the Centers for Disease Control and Prevention. More information about the YRBS can be found here <https://www.cdc.gov/healthyouth/data/yrbs/results.htm>



**Table 31. Sample information for Healthy Kids Colorado Survey (HKCS)**

| Year | High school | Middle school <sup>a</sup> |
|------|-------------|----------------------------|
|      | N Responses | N Responses                |
| 2005 | 1,498       | --                         |
| 2009 | 1,511       | --                         |
| 2011 | 1,523       | --                         |
| 2013 | 25,197      | 14,187                     |
| 2015 | 15,970      | 997                        |
| 2017 | 47,146      | 6,704                      |
| 2019 | 46,537      | 6,983                      |

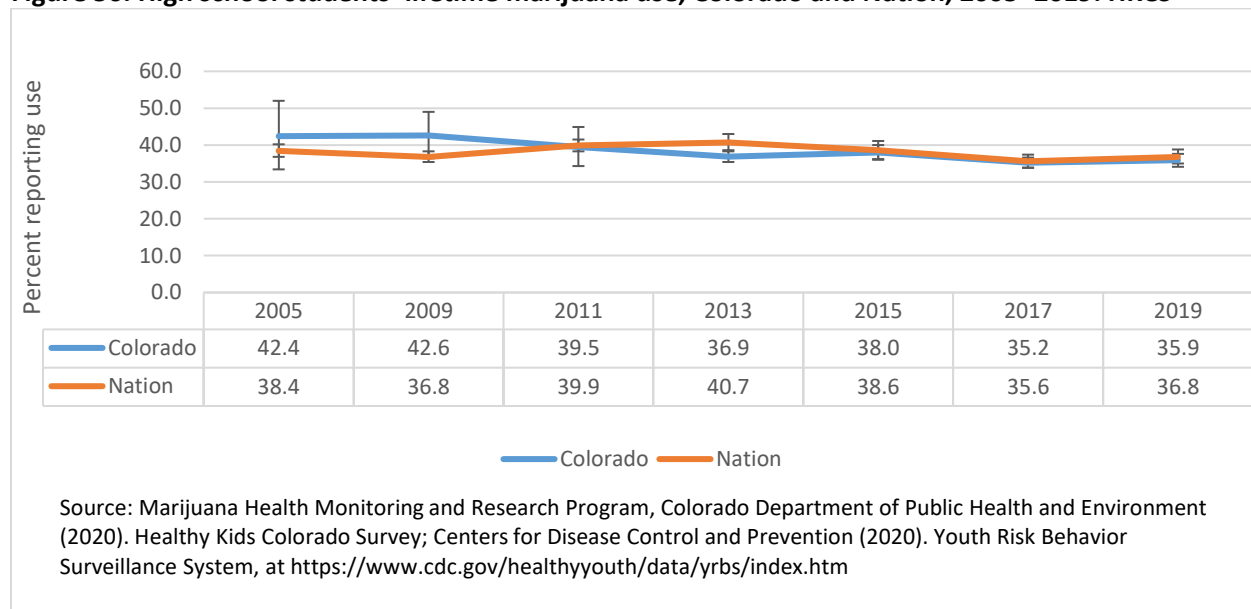
Source: Colorado Department of Public Health and Environment, Healthy Kids Colorado Survey Technical Documentation.

<sup>a</sup>The middle school survey was not conducted prior to 2013.

Note: The response rate from the 2007 survey was too low to allow for accurate weighting of the results and these data are not presented.

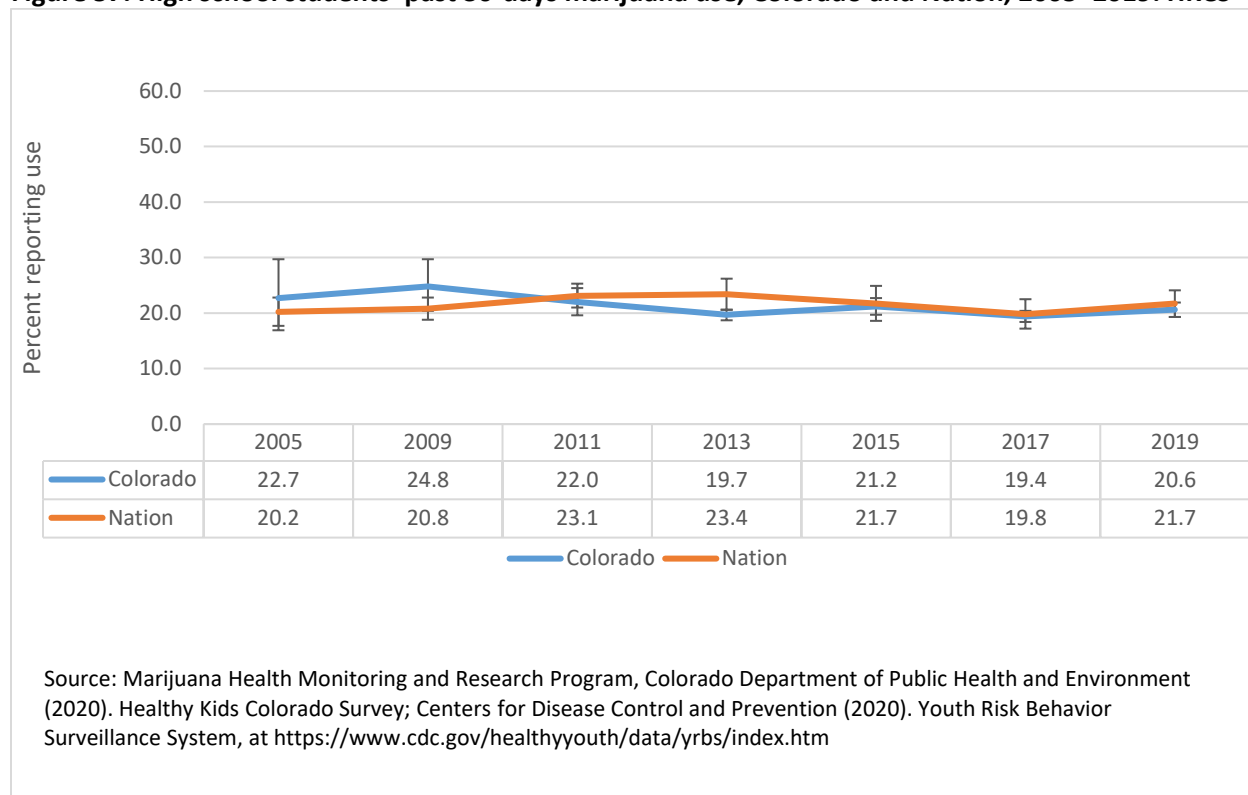
The proportion of Colorado high school students reporting using marijuana ever in their lifetime remained statistically unchanged between 2005 and 2019 (Figure 56). Further, Figure 56 shows there was no statistically significant difference between Colorado student responses compared to national data.

**Figure 56. High school students’ lifetime marijuana use, Colorado and Nation, 2005–2019: HKCS**



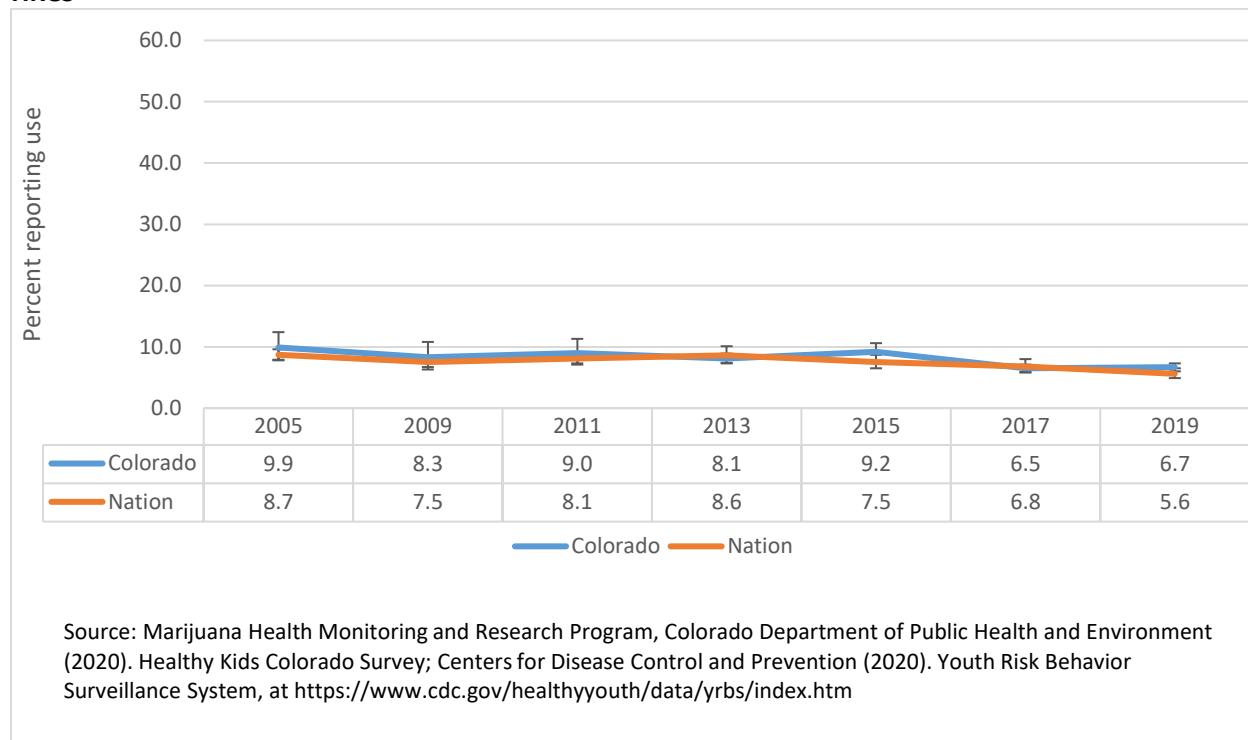
The percentage of high school students reporting past 30-day use also remained stable, with no significant changes between 2005 and 2019 (Figure 57).

**Figure 57. High school students' past 30-days marijuana use, Colorado and Nation, 2005–2019: HKCS**



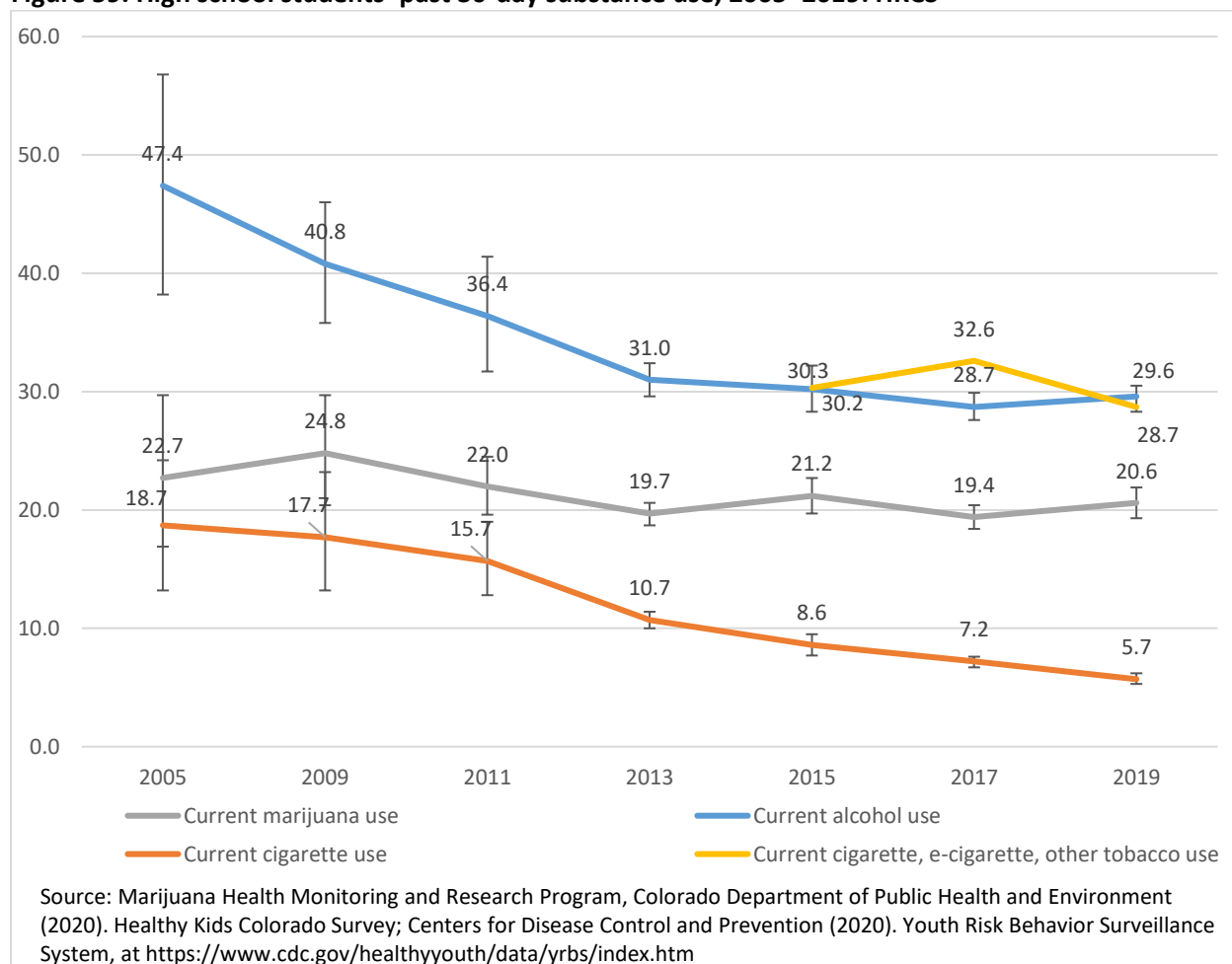
The proportion of students trying marijuana before the age of 13 went down significantly in Colorado, from 9.2% in 2015 to 6.7% in 2019 (Figure 58). These findings were not statistically different from the national data.

**Figure 58. High school students’ marijuana use before 13 years old, Colorado and Nation, 2005–2019: HKCS**



Prevalence trends for the three most commonly used substances by high school students are presented in Figure 59. The prevalence of marijuana use has not changed significantly in the past six survey administrations. Alcohol and cigarette use trended downward, with the largest reduction linked to current alcohol use, down from 47.4% in 2005 to 29.6% in 2019. Although youth’s cigarette smoking was at an all-time low, 25.9% of youth report using nicotine through vapor products including e-cigarettes. Data on e-cigarettes was added to the 2015 administration of HKCS.

**Figure 59. High school students’ past 30-day substance use, 2005–2019: HKCS**



The demographic characteristics of students reporting past 30-day marijuana use in 2019 are presented in Table 32. The percentage of males (21.0%) and females (20.0%) that report past 30-day use does not show any difference. The age of the student was associated with marijuana use, with 15.5% of those 15 or younger reporting use in the past 30-days, compared to 24.4% of 16- to 17-year olds, and 27.5% of those 18 or older.

In 2019, the prevalence of past 30-day marijuana use was significantly higher among Hispanic (23.2%), American Indian/Alaskan Native (26.7%), Native Hawaiian/Pacific Islander (29.4%), and Multiple races (24.8%) compared to White (19.4%) high school students. In 2019, the prevalence of past 30-day marijuana use remained significantly lower among Asian high school students (9.7%) compared to all other race/ethnicities.

Those reporting their sexual orientation as gay/lesbian/bisexual were likely to report past 30-day marijuana use (29.7%) than heterosexual (19.5%) or unsure (20.4%) youth.

**Table 32. High school students' past 30-day marijuana use, by demographic characteristics, 2019**

| Demographic category                                    | Percent | 95% CI      |
|---|---------|-------------|
| Total   | 20.6    | (19.3-21.9) |
| <b>Gender</b>   |         |             |
| Male  | 21.0    | (19.6-22.4) |
| Female  | 20.0    | (18.6-21.5) |
| <b>Age</b>  |         |             |
| 15 or younger   | 15.5    | (14.4-16.5) |
| 16 or 17  | 24.4    | (22.9-26)   |
| 18 or older   | 27.5    | (25.2-29.9) |
| <b>Grade</b>  |         |             |
| 9th   | 13.3    | (12.1-14.6) |
| 10th  | 18.6    | (17.3-19.9) |
| 11th  | 24.3    | (22.4-26.1) |
| 12th  | 26.9    | (25.0-28.8) |
| <b>Race/ethnicity</b>                                   |         |             |
| American Indian or Alaska Native, non-Hispanic          | 26.7    | (23.2-30.2) |
| Asian, non-Hispanic                                     | 9.7     | (8.2-11.2)  |
| Black or African American, non-Hispanic                 | 20.2    | (16.5-23.8) |
| Hispanic Only or Hispanic White                         | 23.2    | (21.9-24.6) |
| Native Hawaiian or Other Pacific Islander, non-Hispanic | 29.4    | (22.2-36.6) |
| White, non-Hispanic                                     | 19.4    | (18.0-20.9) |
| Multiple Race or Hispanic Other Race                    | 24.8    | (21.6-27.9) |
| <b>Sexual orientation</b>                               |         |             |
| Heterosexual  | 19.5    | (18.2-20.8) |
| Gay, Lesbian, or Bisexual                               | 29.7    | (27.6-31.8) |
| Unsure  | 20.4    | (18.2-22.6) |

Source: Colorado Department of Public Health and Environment (2020). Healthy Kids Colorado Survey, at <https://marijuanahealthinfo.colorado.gov/health-data/healthy-kids-colorado-survey-hkcs-data>



The overall and demographic breakdown of middle school students' past 30-day marijuana use is presented in Table 33. Similar to the high school outcomes, older students are more likely to report using marijuana in the past 30 days than younger students.

**Table 33. Middle school students' past 30-day marijuana use, by demographic characteristics, 2019**

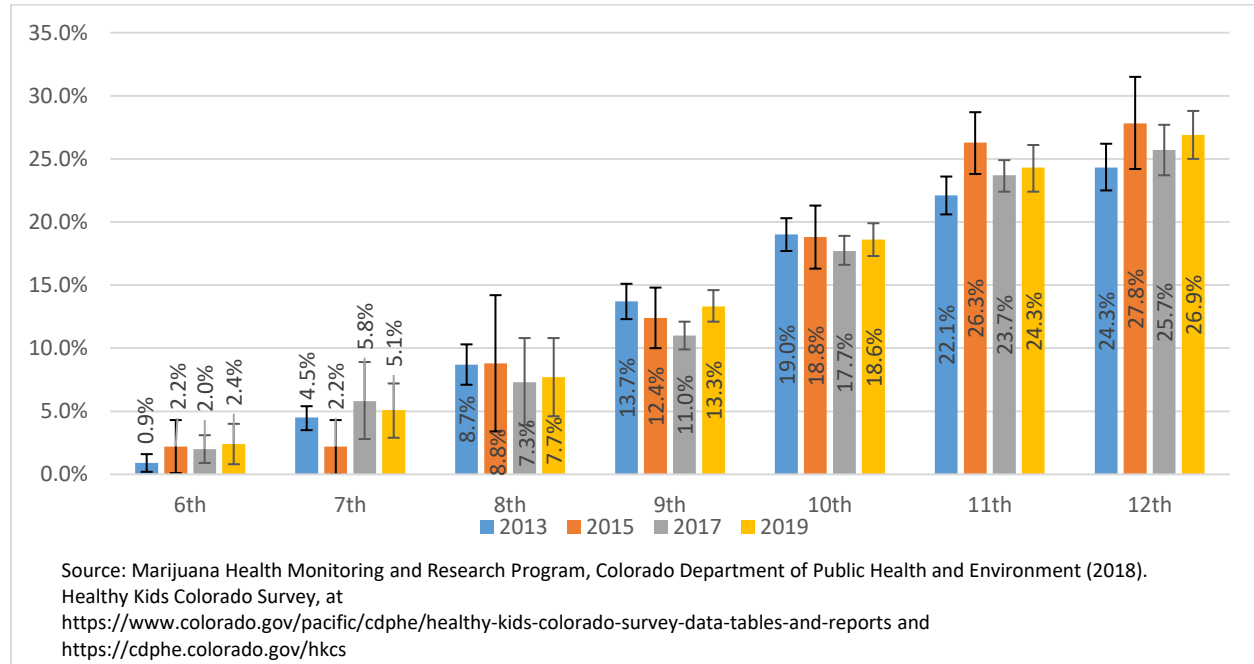
| Demographic category                       | Percentage | 95% CI       |
|--|------------|--------------|
| Total                                      | 5.2        | (3.2 - 7.2)  |
| <b>Sex</b>                                 |            |              |
| Female                                     | 5.4        | (3.2 - 7.6)  |
| Male                                       | 5.1        | (3.1 - 7.1)  |
| <b>Age</b>                                 |            |              |
| 11 or younger                              | 1.8        | (0.5 - 3.1)  |
| 12 or 13                                   | 5.6        | (3.6 - 7.5)  |
| 14 or older                                | 11.8       | (6.6 - 17.0) |
| <b>Grade</b>                               |            |              |
| 6th  | 2.4        | (0.8 - 4.0)  |
| 7th  | 5.1        | (2.9 - 7.2)  |
| 8th  | 7.7        | (4.6 - 10.8) |
| <b>Race/Ethnicity</b>                      |            |              |
| American Indian or Alaska Native*          | 6.3        | (1.7 - 10.9) |
| Asian*                                     | 1.9        | (0.0 - 4.4)  |
| Black or African American*                 | 5.5        | (1.0 - 10.1) |
| Native Hawaiian or Other Pacific Islander* | --         | --           |
| White*                                     | 2.6        | (1.5 - 3.7)  |
| Hispanic Only or Hispanic White            | 10.0       | (7.0 - 13.1) |
| Multiple Race                              | 4.8        | (1.4 - 8.3)  |

Source: Colorado Department of Public Health and Environment (2020). *Healthy Kids Colorado*

*Survey Data Tables and Reports*, <https://cdphe.colorado.gov/healthy-kids-colorado-survey-data-tables-and-reports>

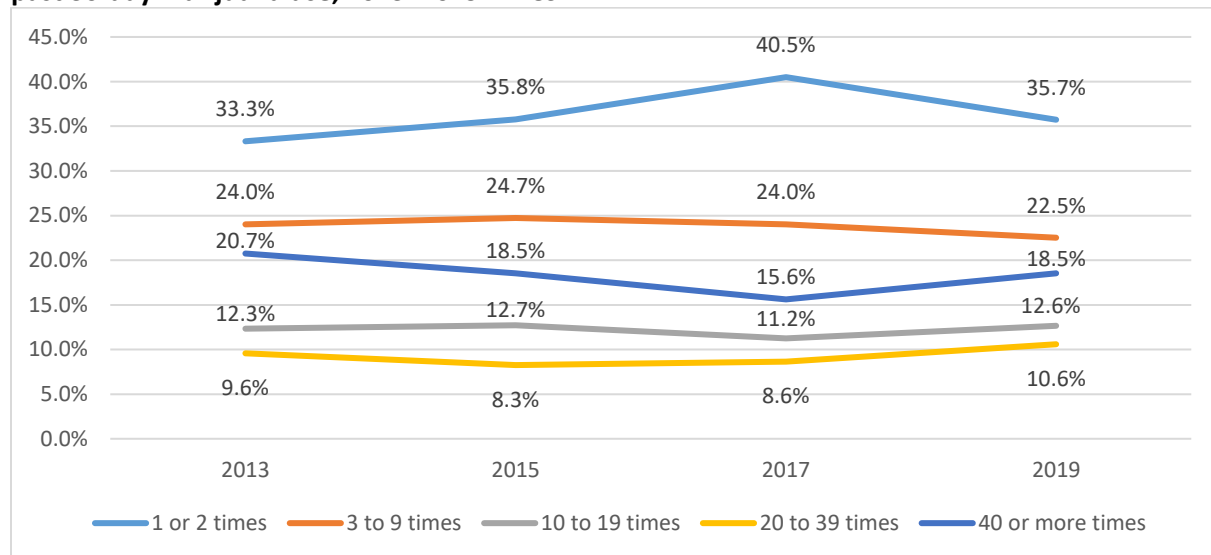
The trend of past 30-day marijuana use by grade level is presented in Figure 60. No significant changes occurred within any grade between 2013 and 2019.

**Figure 60. High school and middle school students' past 30-day marijuana use, by grade level, 2013-2019: HKCS**



The frequency of marijuana use among high school students reported using marijuana in the past 30-days is presented in Figure 61. In 2019, among all high school students, 35.7% reported using one to two times, 22.5% reported using three to nine times, 12.6% reported using 10 to 19 times, 10.6% reported using 20 to 39 times, and 18.5% reported using 40 or more times.

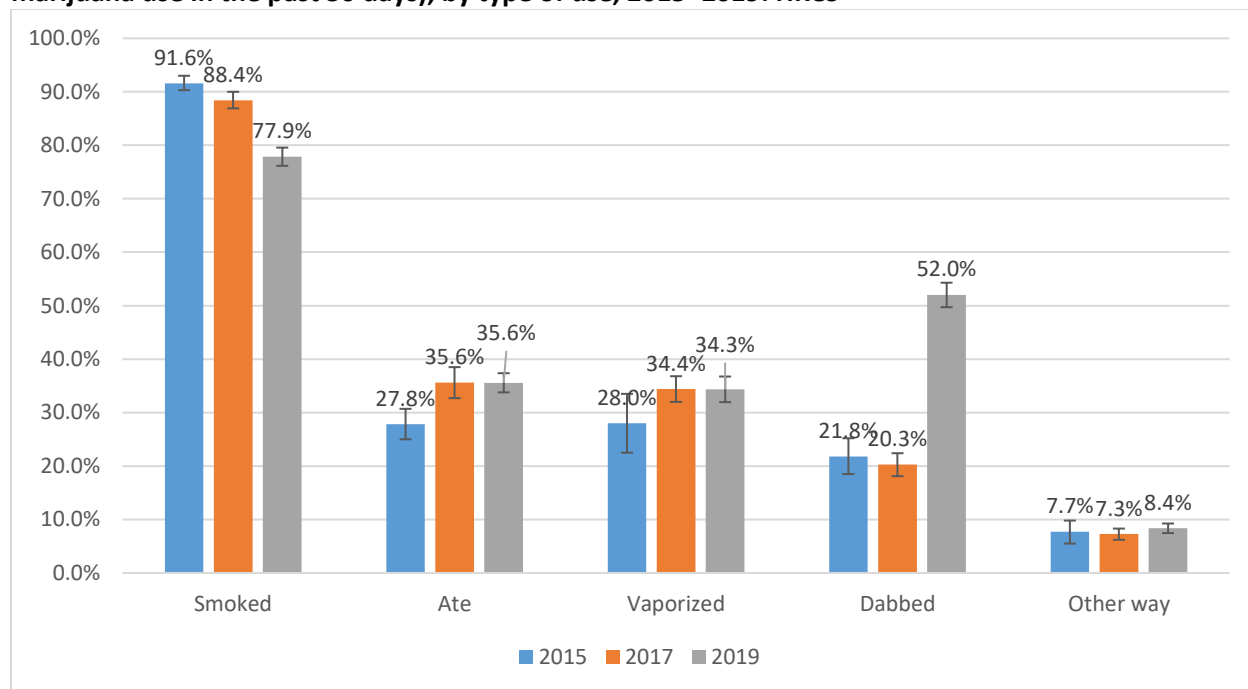
**Figure 61. High school students' marijuana use frequency in past 30 days, among students who report past 30-day marijuana use, 2013-2019: HKCS**



Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment (2020). Healthy Kids Colorado Survey, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-hkcs-monitoring-trends-youth-marijuana-use>

The most common method of marijuana use (Figure 62), reported by high school students who used marijuana in the past 30-days, was smoking (77.9%), followed by dabbing<sup>59</sup> (52.0%), and eating (35.6%). The percent of high school students reporting dabbing marijuana in the past 30-days increased significantly from 2017 (20.3%) to 2019 (52.0%). In contrast, the percent reporting smoking decreased significantly from 2017 (88.4%) to 2019 (77.9%).

**Figure 62. High school students' reported methods of marijuana use (among students that reported marijuana use in the past 30 days), by type of use, 2015–2019: HKCS**



Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment (2020). Healthy Kids Colorado Survey, at

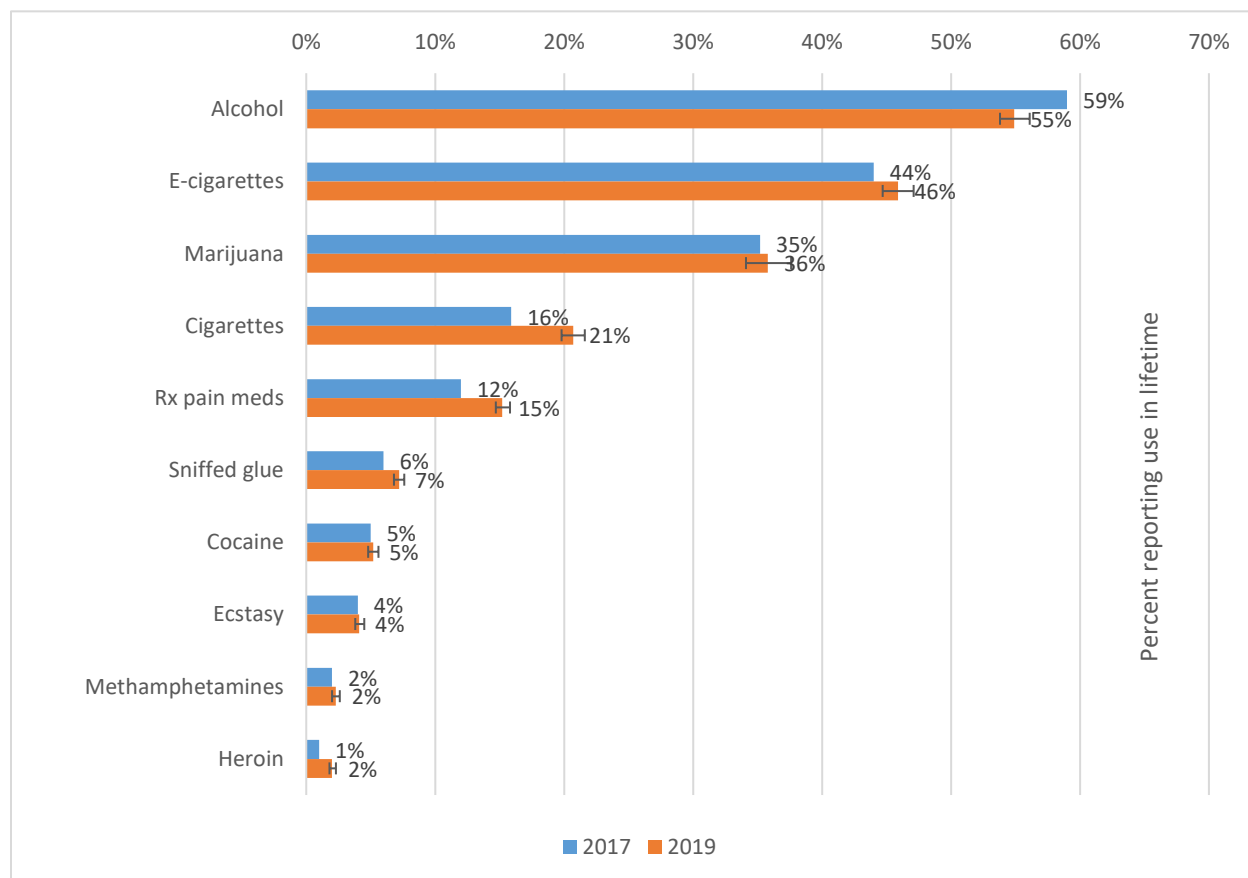
<https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-hkcs-monitoring-trends-youth-marijuana-use>.

Note: Student can report more than one method of use.

Alcohol was the most common substance high school students reported using at any point in their lives at 55%, followed by e-cigarettes at 46%, and marijuana at 36% (Figure 63).

<sup>59</sup> Dabbing is a method of use in which a high THC concentrate (25%-90% THC) is placed on a small metal "nail," heated up to a very high temperature, and then inhaled through a glass device known as a "dab rig." For a more complete description of concentrates and dabbing, see <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5679763/>; <https://ajp.psychiatryonline.org/doi/full/10.1176/appi.ajp-rj.2016.110604>; <https://www.theatlantic.com/national/archive/2013/05/amateurs-guide-dabs/315221/>.

Figure 63. High school students' reported use in lifetime of various substances, by substance type, 2017 & 2019: HKCS



Source: Colorado Department of Public Health and Environment (2018), *Data Brief: Colorado Youth Marijuana Use 2017* and Colorado Department of Public Health and Environment (2020), *Healthy Kids Colorado Survey*, <https://cdphe.colorado.gov/healthy-kids-colorado-survey-data-tables-and-reports>.

Note: E-cigarette use does not include marijuana products.

Colorado has 21 Health Statistics Regions (HSRs). Large counties constitute a single HSR, while smaller counties are grouped together. This grouping allows estimates to be produced for areas with small student populations. It should be noted that many HSRs have large confidence intervals for their estimates due to small sample sizes and the results should be interpreted with caution (See Figure 63 for a statewide map of the HSRs.)

Health Statistics Region 7 (Pueblo County) reported the highest rate of high school students using marijuana in the past 30 days for the last four survey administrations, with 27.0% reporting use in 2019, 26.8% in 2017, 30.1% in 2015, and 32.1% in 2013 (Table 34 and Figure 65). Note, however, that the proportion reporting 30-day use in Region 7 declined between 2013 and 2019. Also reporting high rates of use were students in Region 20 (Denver) at 25.5% in 2019 (note large confidence interval for Region 20) and Region 10 (Delta, Gunnison, Hinsdale, Montrose, Ouray, and San Miguel Counties) at 24.7% in 2019. The areas with the lowest usage in 2019 included Region 3 (Douglas County) at 13.3%, Region 1

(Logan, Morgan, Philips, Sedgwick, Washington, and Yuma Counties) at 15.8%, and Region 2 (Larimer) at 17.4%.

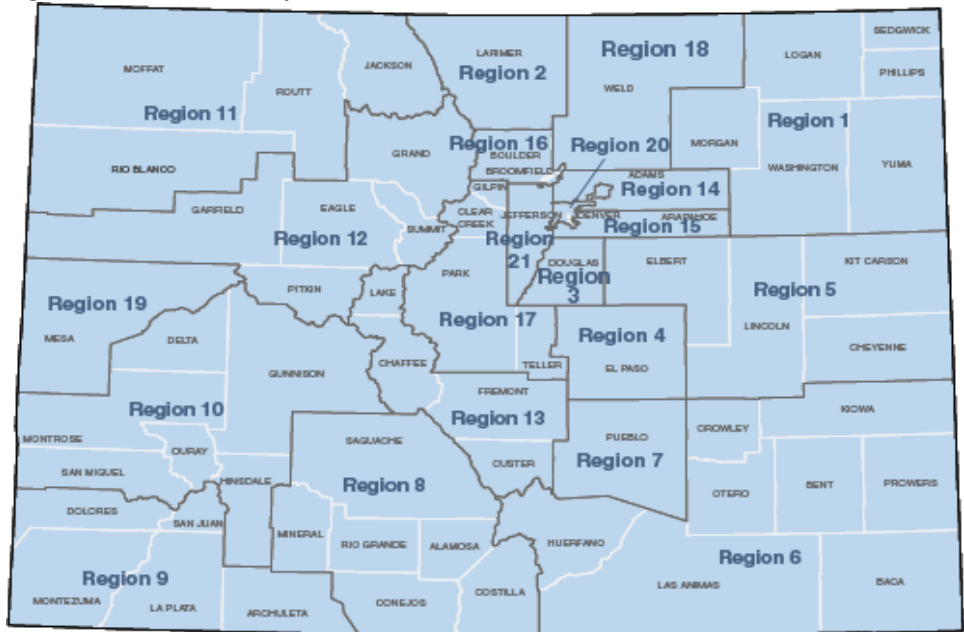
**Table 34. High school students' reporting marijuana use in the past 30-days, by health statistics region, 2013-2019: HKCS**

| Health Statistics Region | 2013       |             | 2015       |             | 2017       |             | 2019       |             |
|--------------------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
|                          | 30-day use | 95% CI      | 30-day use | 95% CI      | 30-day use | 95% CI      | 30-day use | 95% CI      |
| Colorado                 | 19.7%      | (18.7-20.6) | 21.2%      | (19.7-22.7) | 19.4%      | (18.4-20.4) | 20.6%      | (19.3-21.9) |
| HSR 1                    | --         | --          | 11.8       | (4.8-18.8)  | 16.3       | (12.9-19.6) | 15.8       | (14.2-17.3) |
| HSR 2                    | 16.9       | (14.0-19.8) | 17.6       | (12.6-22.5) | 19.6       | (18.3-20.9) | 17.4       | (13.6-21.3) |
| HSR 3                    | 13.2       | (11.7-14.7) | --         | --          | 13.5       | (12.1-14.8) | 13.3       | (12.5-14)   |
| HSR 4                    | 14.8       | (10.4-19.2) | --         | --          | 22.2       | (19.5-24.8) | 21.5       | (15.8-27.1) |
| HSR 5                    | 9.4        | (6.0-12.9)  | 9.7        | (1.9-17.4)  | 16.2       | (11.6-20.8) | --         | --          |
| HSR 6                    | 17.6       | (13.4-21.8) | 20.1       | (16.9-23.3) | 20.6       | (12.6-28.5) | 22.5       | (15.8-29.3) |
| HSR 7                    | 32.1       | (25.7-38.4) | 30.1       | (27.1-33.2) | 26.8       | (24.1-29.5) | 27.0       | (23.9-30.1) |
| HSR 8                    | 23.1       | (18.1-28.0) | 19.7       | (17.0-22.4) | 19.6       | (17.5-21.7) | 22.5       | (20-25.1)   |
| HSR 9                    | 24.6       | (20.9-28.3) | 26.2       | (24.7-27.7) | 24.9       | (23.0-26.8) | 24.7       | (23.5-25.8) |
| HSR 10                   | 26.7       | (22.3-31.0) | 17.5       | (12.7-22.2) | 25.3       | (22.0-28.6) | 22.1       | (18.9-25.3) |
| HSR 11                   | 14.3       | (7.3-21.2)  | 19.7       | (18.0-21.4) | 19.5       | (18.9-20.2) | 18.2       | (16.9-19.5) |
| HSR 12                   | 19.7       | (15.5-23.9) | 24.5       | (20.1-28.9) | 20.8       | (19.4-22.3) | 21.1       | (19.2-23.1) |
| HSR 13                   | 22.9       | (21.2-24.7) | 23.5       | (21.9-25.1) | 22.1       | (18.9-25.2) | 18.7       | (13.7-23.6) |
| HSR 14                   | 22.8       | (19.7-25.9) | 20.6       | (14.3-27.0) | --         | --          | 18.0       | (14.9-21)   |
| HSR 15                   | 20.6       | (18.7-22.4) | 20.2       | (17.9-22.6) | 18.3       | (15.5-21.1) | 23.1       | (20.4-25.8) |
| HSR 16                   | 20.3       | (18.3-22.3) | 24.1       | (20.2-28.0) | 22.2       | (18.9-25.4) | 22.6       | (19.1-26.1) |
| HSR 17                   | 25.1       | (21.9-28.3) | 20.8       | (19.3-22.3) | 22.1       | (17.9-26.3) | 21.4       | (18-24.8)   |
| HSR 18                   | 18.6       | (15.4-21.9) | --         | --          | 18         | (16.1-19.9) | 20.9       | (19-22.8)   |
| HSR 19                   | 17.2       | (13.0-21.3) | 21.2       | (19.0-23.3) | 19.7       | (17.2-22.2) | 19.1       | (17-21.2)   |
| HSR 20                   | 26.6       | (22.5-30.8) | 26.1       | (20.5-31.8) | 20.9       | (16.9-24.8) | 25.5       | (15.8-35.3) |
| HSR 21                   | --         | --          | --         | --          | --         | --          | 19.5       | (16.8-22.2) |

Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment (2020). Healthy Kids Colorado Survey, at

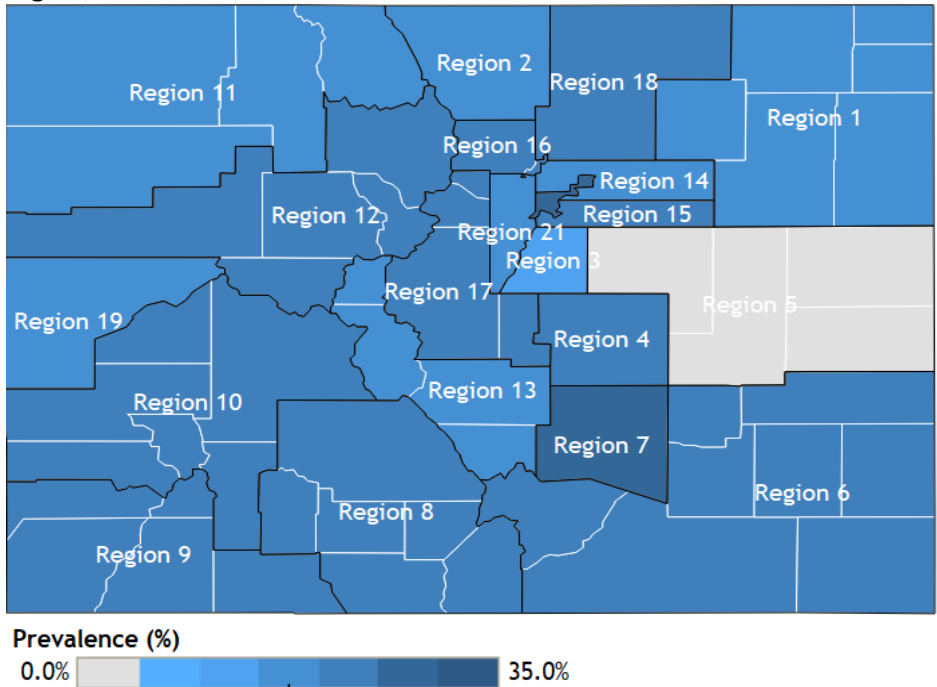
<https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-hkcs-monitoring-trends-youth-marijuana-use>

Figure 64. Colorado Department of Public Health and Environment Health Statistics Regions



Source: Colorado Department of Public Health and Environment.

Figure 65. High school students' reporting marijuana use in the past 30-days, by health statistics region, 2019: HKCS

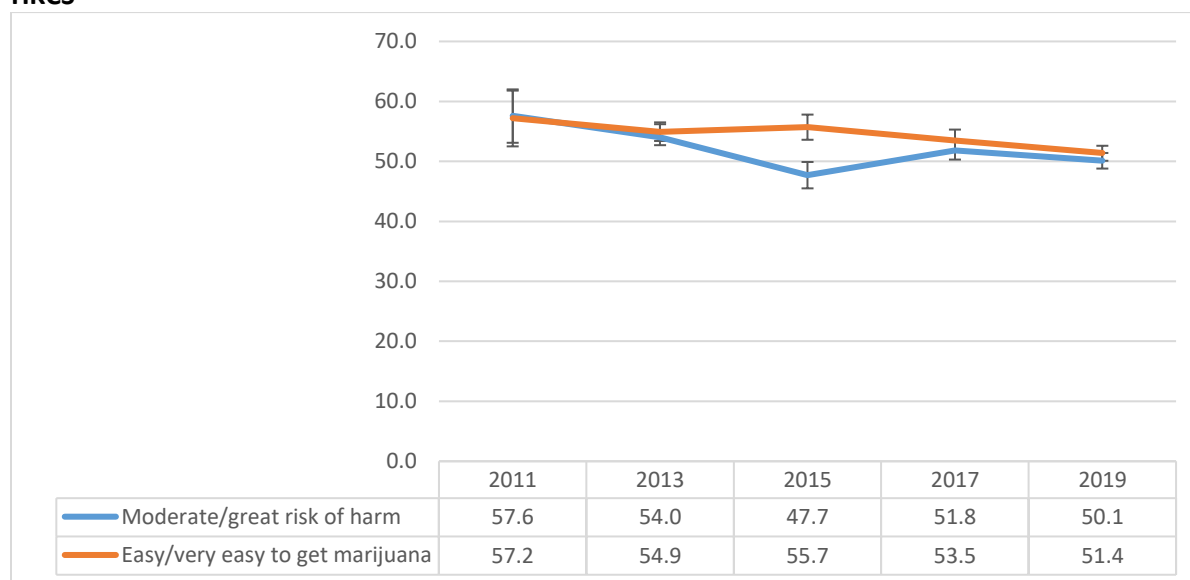


Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment (2020). Healthy Kids Colorado Survey, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-hkcs-monitoring-trends-youth-marijuana-use>

The HKCS asks about various student opinions and behaviors concerning marijuana (Figures 66-74). The perception of moderate/great risk of using marijuana regularly<sup>60</sup> was reported by 50.1% of high school students in 2019, with no significant change between 2017 and 2019 (Figure 66). The perception of risk decreases with age, from 79.7% of 6<sup>th</sup> graders reporting a perception of moderate/great risk compared to 41.7% of 12<sup>th</sup> graders (Figure 67). The percent of high school students reporting that it would be easy/very easy to obtain marijuana in 2019 (51.4%) did not change significantly from 2017 (53.5%) (Figure 65).

The perception of how easy it would be to obtain marijuana changes as students age, with 10.1% of 6<sup>th</sup> grade students reporting that it would be sort of/very easy to get marijuana, and 63.8% of 12<sup>th</sup> grade students expressing this belief in 2019 (Figure 68). Student perceptions about the wrongness of marijuana use also vary by age, with 94.4% of 6<sup>th</sup> grade students believing use is wrong/very wrong, and 47.0% of 12<sup>th</sup> grade students expressing this opinion in 2019.

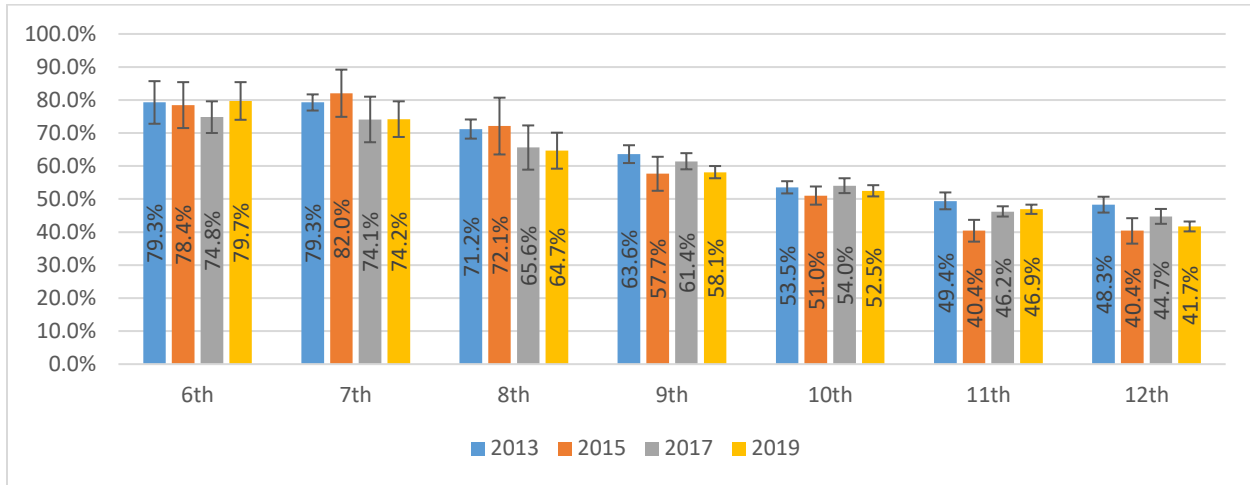
**Figure 66. High school students' perception of harm risk and ease of access of marijuana, 2011-2019: HKCS**



Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment, Healthy Kids Colorado Survey, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-data-tables-and-reports>, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-data-tables-and-reports>

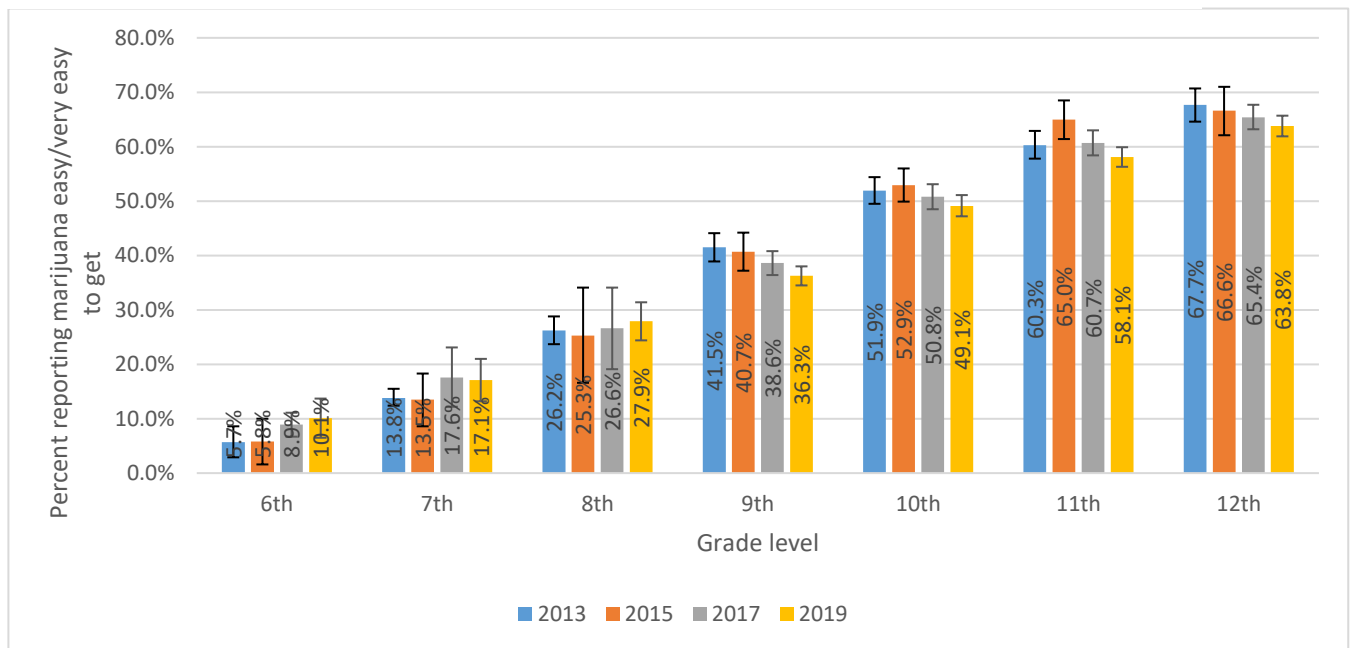
<sup>60</sup> The frequency implied by the term “use marijuana regularly” is not explicitly defined in the survey. This is also a different measure of risk perception from that used in the NSDUH, which asks about perceived risk for using once a month.

**Figure 67. Students’ opinion regarding moderate/great risk of regular marijuana use, by grade level, 2013–2019: HKCS**



Source: Colorado Department of Public Health and Environment (2020), Healthy Kids Colorado Survey, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-data-tables-and-reports>.

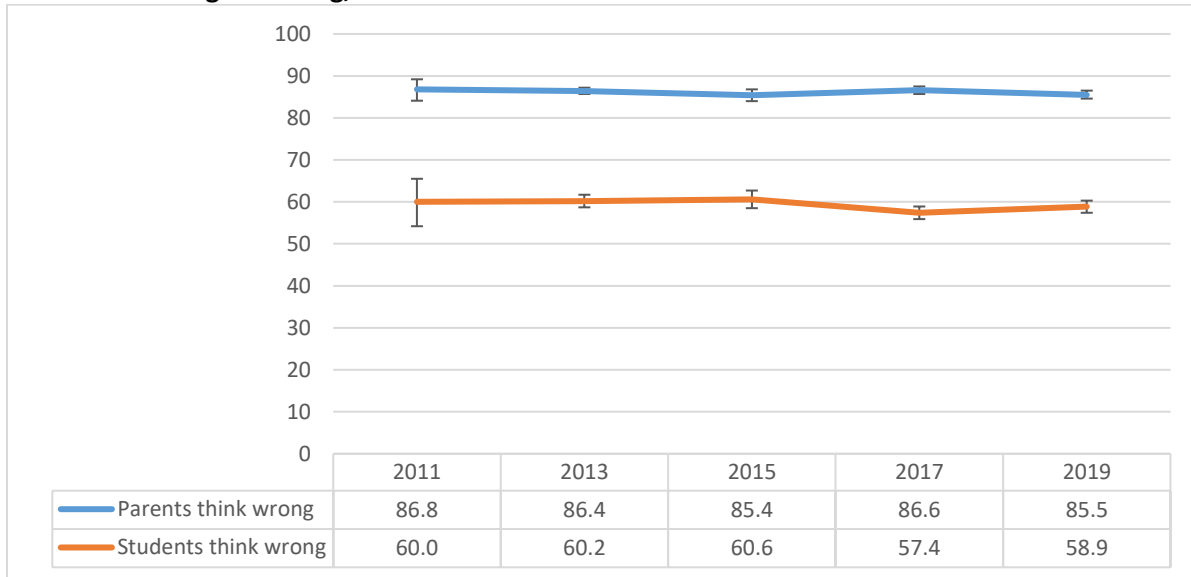
**Figure 68. Students’ opinion regarding marijuana being easy/very easy to get, by grade level, 2013–2019: HKCS**



Source: Colorado Department of Public Health and Environment (2020), Healthy Kids Colorado Survey, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-data-tables-and-reports>.

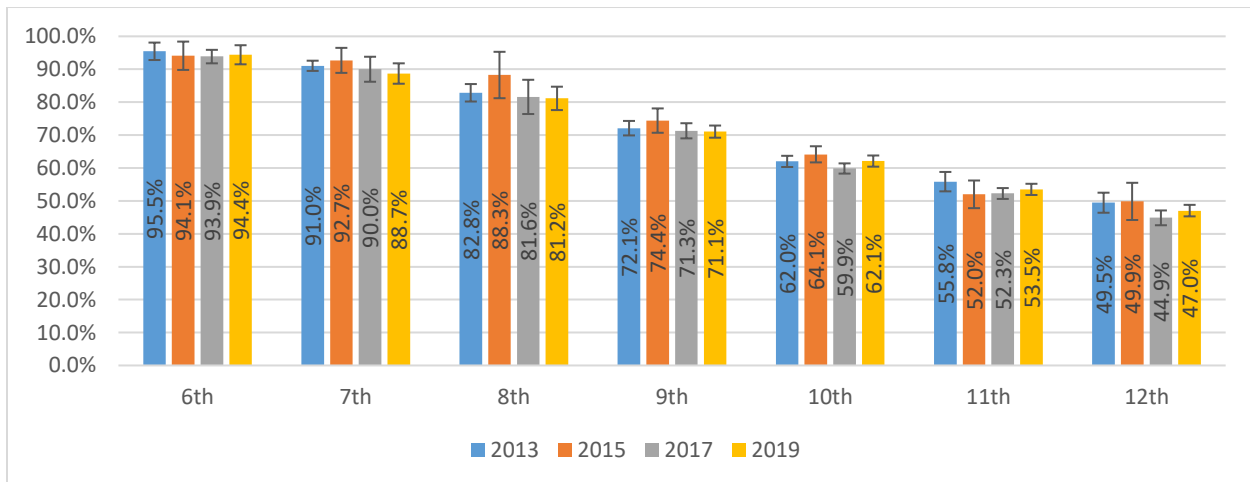


**Figure 69. High school students’ perception of parents’ and their own belief that marijuana use by someone their age is wrong, 2011-2019: HKCS**



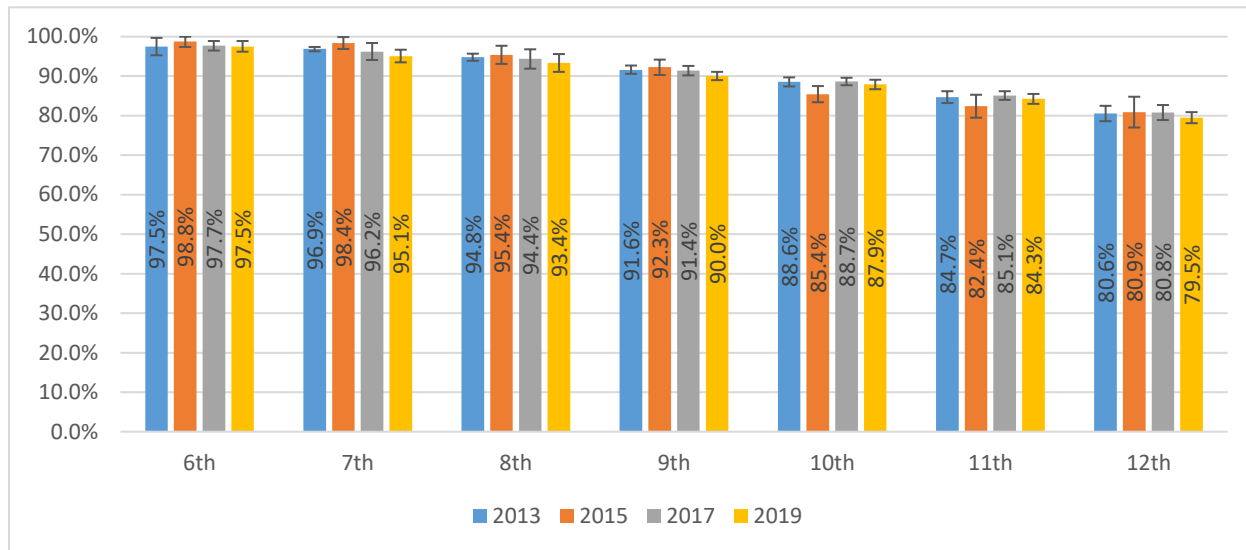
Source: Colorado Department of Public Health and Environment (2020), Healthy Kids Colorado Survey, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-data-tables-and-reports>.

**Figure 70. Students’ opinion regarding whether marijuana use is wrong, by grade level, 2013–2019: HKCS**



Source: Colorado Department of Public Health and Environment (2020), Healthy Kids Colorado Survey, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-data-tables-and-reports>.

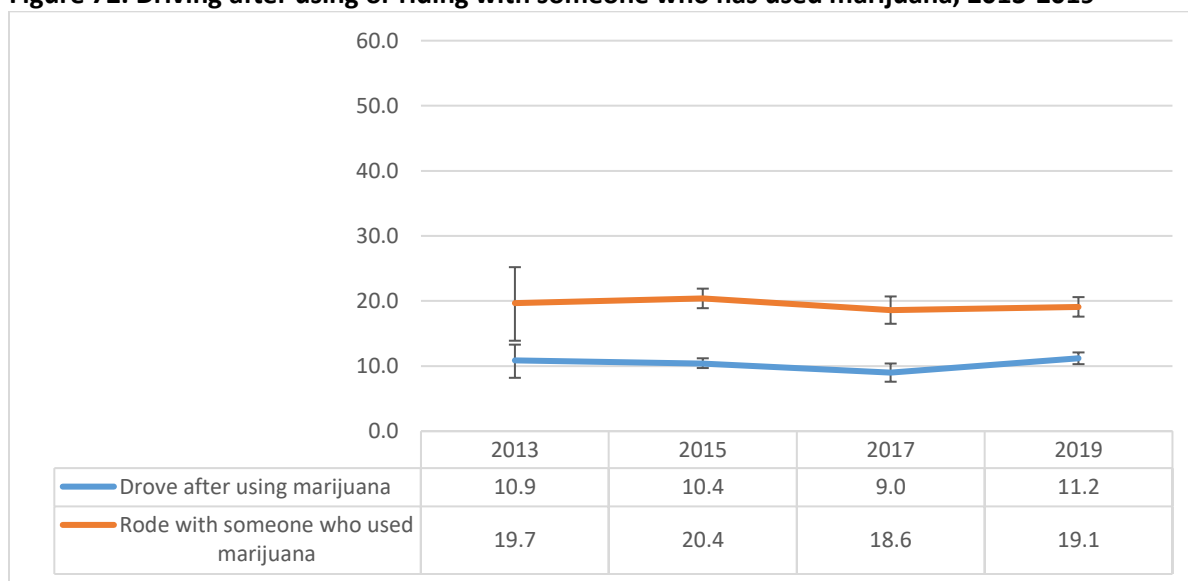
**Figure 71. Students’ opinion regarding whether parents believe marijuana use is wrong, by grade level, 2013–2019: HKCS**



Source: Colorado Department of Public Health and Environment (2020), Healthy Kids Colorado Survey, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-data-tables-and-reports>.

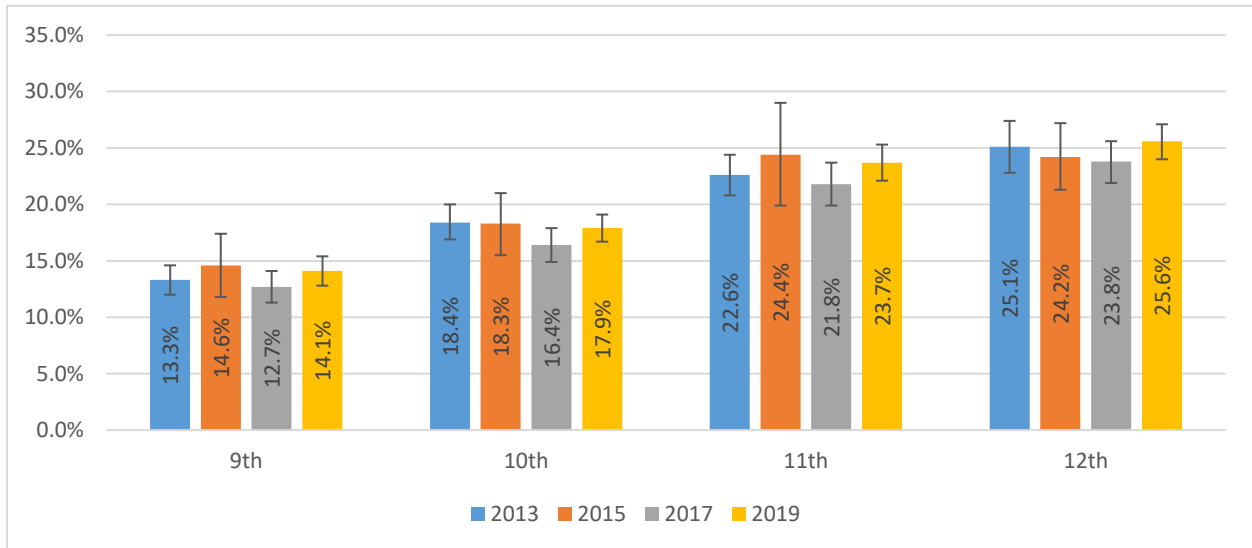
Two questions about driving were asked of high school students: whether they rode in a car with someone who had been using marijuana and if they drove while using marijuana (Figure 73). In 2019, nearly one in five (19.2%) reported riding with someone who had been using marijuana and about one in 10 (11.2%) of students who drove reported driving while using marijuana in the past 30 days. Grade-level trends for the driving questions are presented in Figures 74 and 75.

**Figure 72. Driving after using or riding with someone who has used marijuana, 2013-2019**



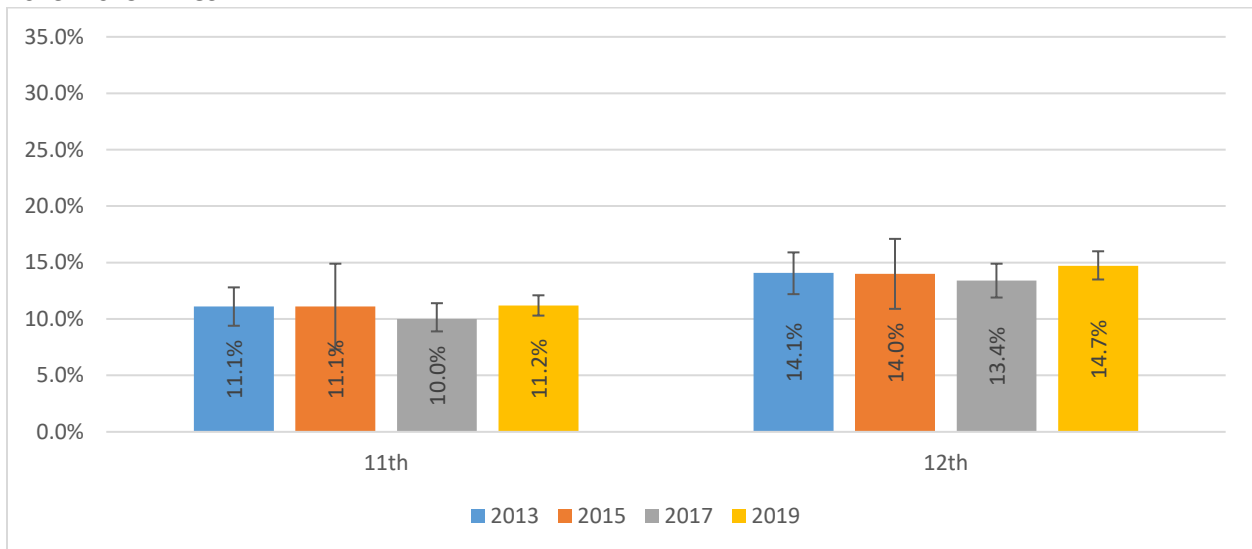
Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment, Healthy Kids Colorado Survey.

**Figure 73. Students reporting riding in a car driven by someone who had been using marijuana, by grade level, 2013–2019: HKCS**



Source: Colorado Department of Public Health and Environment (2020), Healthy Kids Colorado Survey, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-data-tables-and-reports>.

**Figure 74. Students reporting driving a vehicle when they had been using marijuana, by grade level, 2013–2019: HKCS**



Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment, Healthy Kids Colorado Survey, at <https://www.colorado.gov/pacific/cdphe/healthy-kids-colorado-survey-data-tables-and-reports>

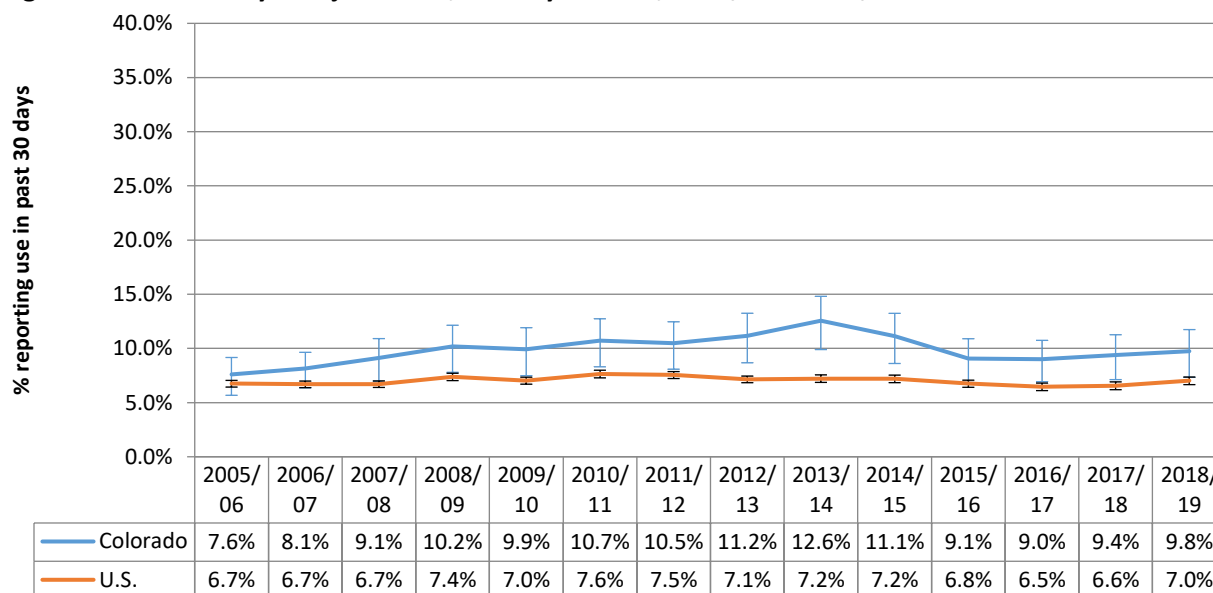
### National Survey on Drug Use and Health

The federal Substance Abuse and Mental Health Services Administration (SAMHSA) conducts the annual National Survey on Drug Use and Health (NSDUH).<sup>61</sup> The NSDUH is the primary source of information on the prevalence, patterns, and consequences of alcohol, tobacco, and illegal drug use and abuse, and mental disorders in the U.S. civilian, noninstitutionalized population, age 12 and older. The survey generates estimates at the national, state, and sub-state levels. The NSDUH is state-based, with an independent, multistage area probability sample within each state and the District of Columbia.

SAMHSA produces state-level estimates from a two-year rolling sample. This means that each year presented in this report actually represents two years of data. The two-year usage prevalence rates for Colorado residents 12 to 17 years old are based on weighted estimates from between 500 to 650 survey respondents.

The proportion of Colorado youth reporting marijuana use in the past 30 days was significantly higher than the national average for the entire period from 2008/2009 through 2018/2019 (Figure 76).<sup>62</sup> The 2018/2019 30-day marijuana use percentage in Colorado (9.8%) was lower than the 2012/2013 estimate (11.2%) and was equal to the 2009/2010 estimate. A map with state-level estimates of 30-day usage is presented in Figure 77 and indicates that Colorado was in the top 20% of states for youth marijuana usage.

**Figure 75. Past 30-day marijuana use, 12–17 year-olds, 2005/06 – 2018/19: NSDUH**

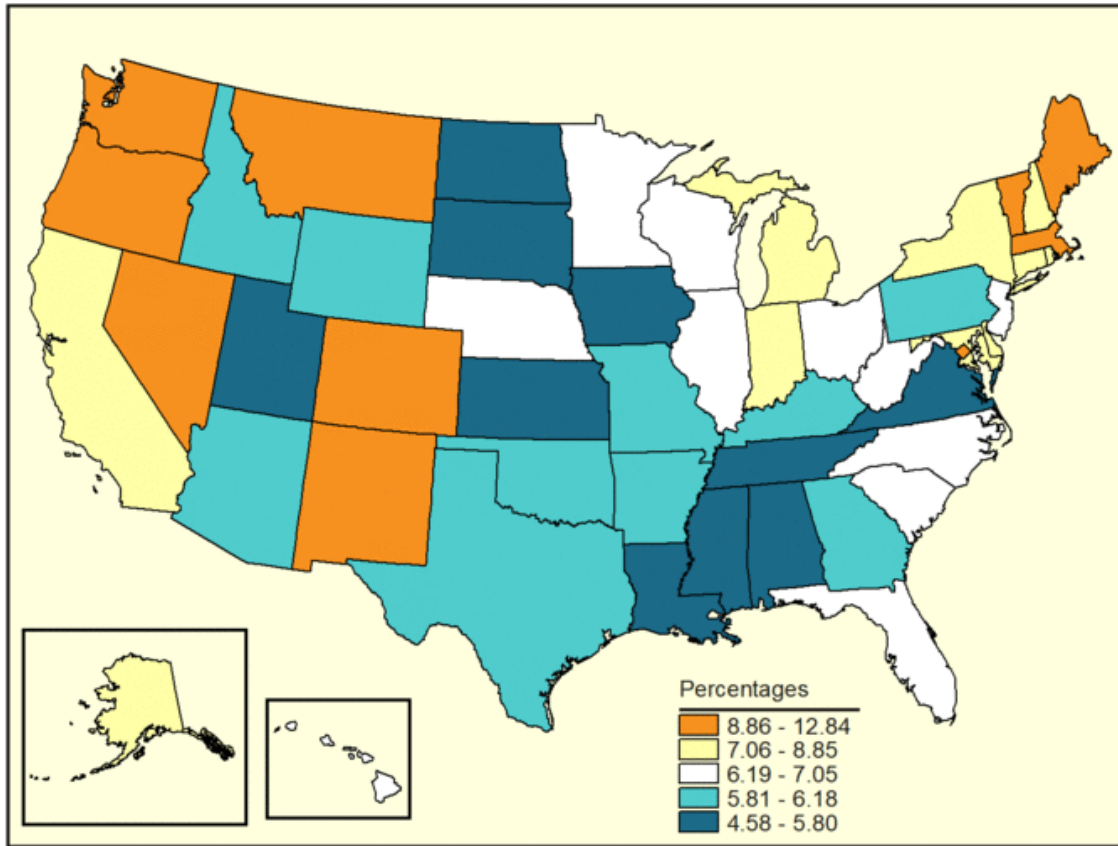


Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

<sup>61</sup> Descriptions of the NSDUH are derived from information available at <http://www.samhsa.gov/data/population-data-nsduh/reports>.

<sup>62</sup> SAMHSA produces *p*-value tables that compare different geographic areas. *P*-values below .05 are considered statistically significant.

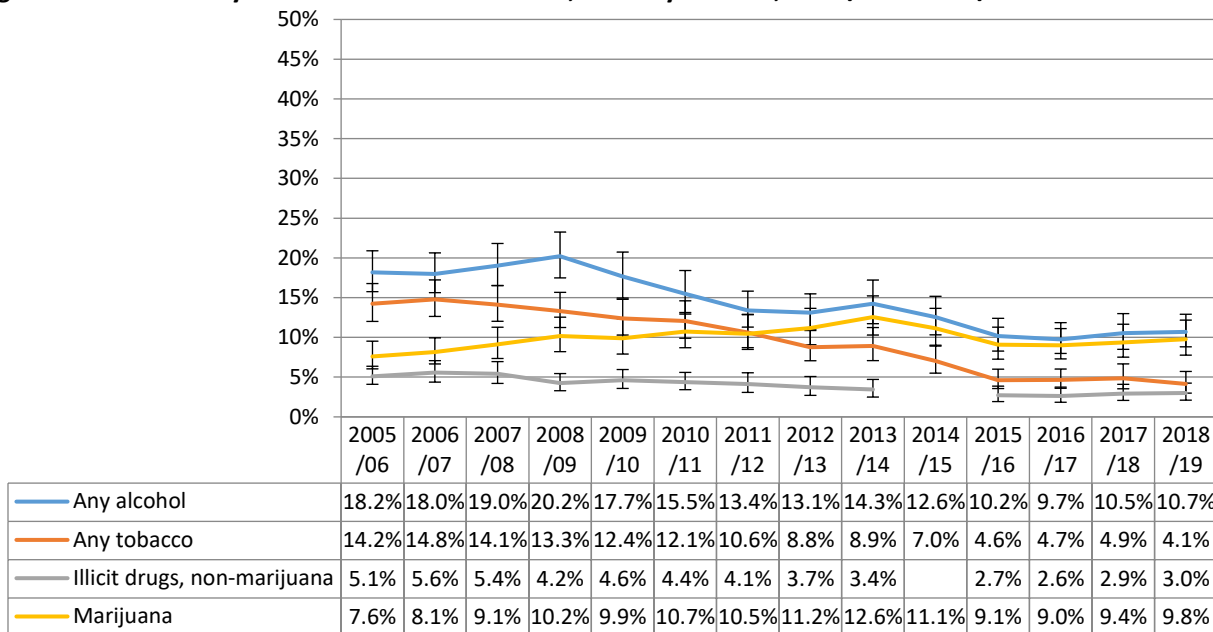
Figure 76. Past 30-day marijuana use, 12- to 17-year-olds, by state, 2018/19



Source: Substance Abuse and Mental Health Services Administration (2020), National Survey on Drug Use and Health, 2018-19 National Survey on Drug Use and Health National Maps of Prevalence Estimates, by State. Available at <https://www.samhsa.gov/data/report/2018-2019-nsduh-national-maps-prevalence-estimates-state>

Overall substance use among teens was decreasing, with reductions in alcohol, cigarette, marijuana, and illicit drug use other than marijuana over the past eight years (Figure 78).

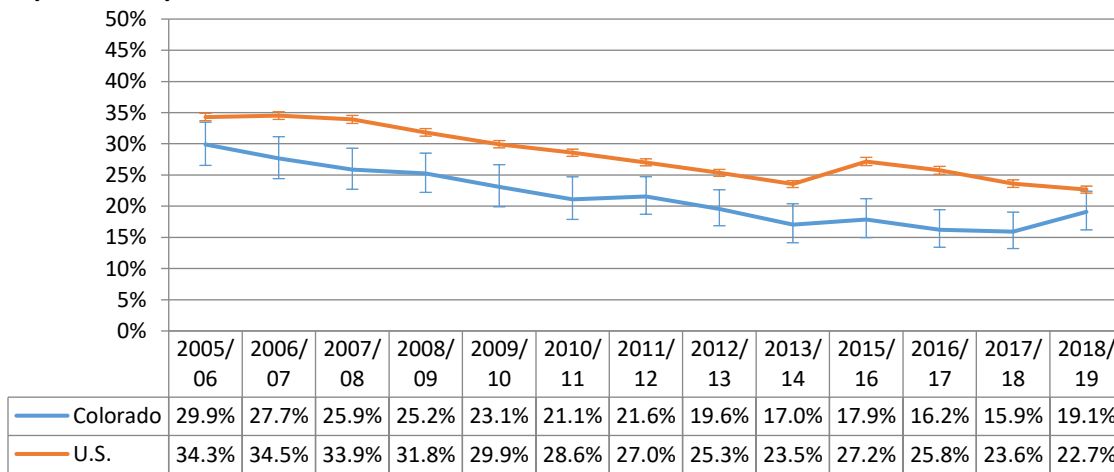
**Figure 77. Past 30-day substance use in Colorado, 12–17 year olds, 2005/06 – 2018/19: NSDUH**



Note: There were no state-level estimates for use of illicit drugs other than marijuana in 2014/2015.  
 Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

Colorado youths’ perceptions of great risk for using marijuana once per month have been consistently lower than the national average (Figure 79). Both the Colorado and national trends have shown declines in perception of risk. The perception of great risk from using marijuana once a month among Colorado youth declined from 29.9% in 2005/2006 to 19.1% in 2018/2019. The perception of great risk in Colorado has been consistently lower than the national figure, but the gap between the two remained relatively consistent, at five to six percentage points.

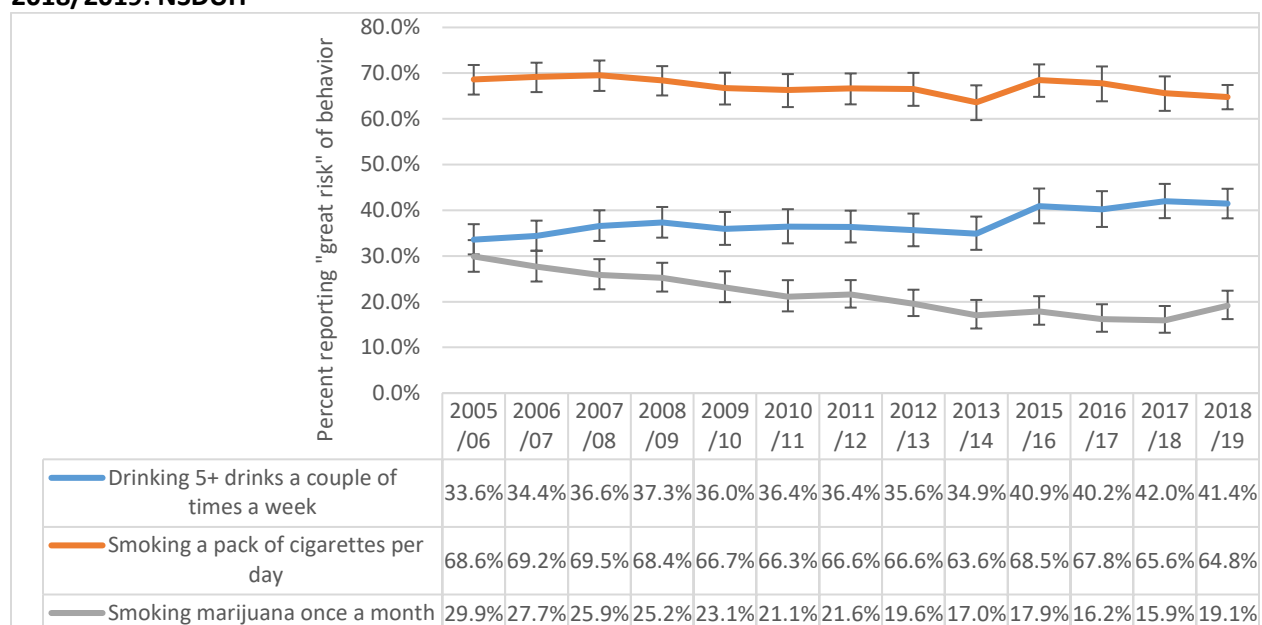
**Figure 78. Perception of great risk for using marijuana once a month, 12– to 17-year olds, 2005/06 – 2018/19: NSDUH**



Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

As shown in Figure 80, the reduced perception of risk for marijuana use once-per-month contrasts with very little change in the perception of great risk for regular cigarette smoking (one pack per day) or binge drinking (five or more drinks a couple times a week). However, the difference in the frequency of the behavior in question should be noted and taken into consideration when interpreting this disparity.

**Figure 79. Perception of great risk for using various substances, 12- to 17-year olds, 2005/2006–2018/2019: NSDUH**



Note: There were no state-level estimates in 2014/2015.

Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, at <https://www.samhsa.gov/data/data-we-collect/nsduh-national-survey-drug-use-and-health>

### Summary of Survey Data

The 2019 HKCS results indicated no change in high school students’ past 30-day use of marijuana from 2017. The 2019 HKCS found that, among current marijuana users, dabbing marijuana concentrate increased between 2017 and 2019.

## Criminal Justice Involvement

### Arrest Trends

The total number of juvenile marijuana arrests decreased from 3,265 in 2012 to 2,064 in 2019 (-37%) (Table 35). The juvenile marijuana arrest rate decreased 42%, from 599 per 100,000 population 10–17 years old in 2012 to 349 in 2019 (Table 36). The demographic characteristics behind this change show consistent trends based on gender and race/ethnicity. The number of females arrested in 2019 (638) was down 11% from the 2012 total (719) but when controlling for the increase in the population, the rate reduced 18% (Tables 35 and 36). This compares with the decrease in the number (-44%) and rate (-48%) of male juvenile arrests between 2012 and 2019 (Tables 35 and 36).

The number (-45%) and rate (-47%) of White juveniles arrested decreased during this period. The rate and number of arrests for the largest minority populations also decreased: the number (-14%) and rate (-26%) of Hispanic juvenile arrests decreased, and the number (-35%) and rate (-41%) of Black juvenile arrests also decreased (Tables 35 and 36). The arrest rate for Black juveniles (429 per 100,000) was 22% above that of Whites (352 per 100,000) and 18% higher than the Hispanic rate (364 per 100,000)

Finally, the most common type of juvenile marijuana arrest was possession, which made up 83% of these arrests in 2019 (Table 35).

**Table 35. Juvenile marijuana arrests, by demographics and crime type, 2012–2019**

|                    | Number of marijuana arrests |       |       |       |       |       |       |       |
|--------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
|                    | 2012                        | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
| 10 to 17 years old |                             |       |       |       |       |       |       |       |
| Total              | 3,265                       | 3,122 | 3,379 | 3,019 | 2,648 | 2,701 | 2,573 | 2,064 |
| Race               |                             |       |       |       |       |       |       |       |
| White              | 2,214                       | 2,018 | 2,011 | 1,835 | 1,631 | 1,721 | 1,578 | 1,220 |
| Hispanic           | 786                         | 803   | 992   | 886   | 755   | 749   | 759   | 674   |
| Black              | 211                         | 262   | 324   | 266   | 224   | 184   | 195   | 138   |
| Other              | 54                          | 39    | 52    | 32    | 38    | 47    | 41    | 32    |
| Gender             |                             |       |       |       |       |       |       |       |
| Male               | 2,546                       | 2,389 | 2,494 | 2,227 | 1,910 | 1,944 | 1,720 | 1,426 |
| Female             | 719                         | 733   | 885   | 792   | 738   | 757   | 853   | 638   |
| Drug crime type    |                             |       |       |       |       |       |       |       |
| Sales              | 41                          | 44    | 52    | 30    | 39    | 40    | 24    | 11    |
| Smuggling          | 2                           | 1     | 0     | 0     | 0     | 0     | 1     | 0     |
| Possession         | 2856                        | 2710  | 3091  | 2788  | 2461  | 2442  | 2255  | 1709  |
| Production         | 5                           | 4     | 3     | 2     | 4     | 4     | 4     | 1     |
| Unspecified        | 361                         | 363   | 233   | 199   | 144   | 215   | 289   | 343   |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System.

**Table 36. Juvenile marijuana arrest rates (per 100,000 population), by demographics and crime type, 2012–2019**

|                    | Marijuana arrest rate (per 100,000 population) |      |      |      |      |      |      |      |
|--------------------|--|------|------|------|------|------|------|------|
|                    | 2012   | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| 10 to 17 years old |  |      |      |      |      |      |      |      |
| Total              | 599  | 565  | 602  | 528  | 456  | 461  | 436  | 349  |
| Race               |  |      |      |      |      |      |      |      |
| White              | 667  | 605  | 597  | 539  | 474  | 498  | 456  | 352  |
| Hispanic           | 489  | 486  | 585  | 507  | 422  | 412  | 411  | 364  |
| Black              | 727  | 889  | 1081 | 867  | 716  | 581  | 608  | 429  |
| Other              | 230  | 161  | 209  | 124  | 144  | 174  | 148  | 116  |
| Gender             |  |      |      |      |      |      |      |      |
| Male               | 913  | 846  | 871  | 763  | 644  | 649  | 570  | 472  |
| Female             | 270  | 271  | 322  | 283  | 260  | 264  | 295  | 221  |





| Drug crime type | Marijuana arrest rate (per 100,000 population) |      |      |      |      |      |      |      |
|-----------------|--|------|------|------|------|------|------|------|
|                 | 2012   | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| Sales           | 8  | 8    | 9    | 5    | 7    | 7    | 4    | 2    |
| Smuggling       | 0  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Possession      | 524  | 491  | 551  | 488  | 424  | 417  | 382  | 289  |
| Production      | 1  | 1    | 1    | 0    | 1    | 1    | 1    | 0    |
| Unspecified     | 66   | 66   | 42   | 35   | 25   | 37   | 49   | 58   |

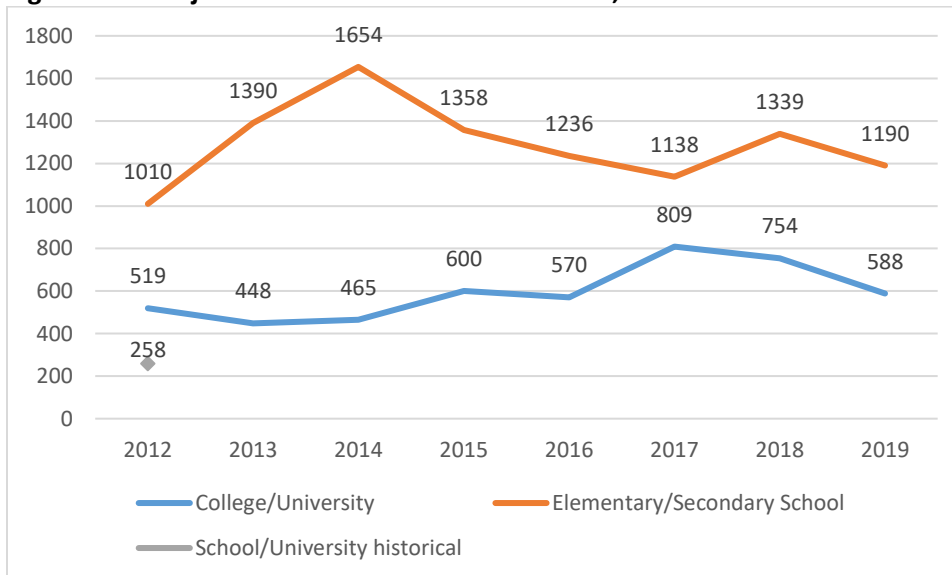
Source: Colorado Bureau of Investigation, National Incident-Based Reporting System; Colorado State Office of Demography.  
 Note: The rates for total arrests and rates by drug crime type were calculated based on the population 10-17 years old. The rates for race/ethnicity and gender were calculated on the population of 10-17 year olds in those respective groups.

## School Data

### Offense Trends

The National Incident-Based Reporting System (NIBRS) captures information on the place where an offense was reported to have occurred. There are 57 categories, which include locations such as public transportation, bars, convenience stores, homes, parks, parking lots, primary/secondary schools, colleges, etc. The number of offenses in elementary/secondary schools increased 64% from 2012 to 2014, but has since decreased; the 2019 total (1,190) was 18% above 2012 (Figure 81). The number of offenses reported on college and university campuses was relatively stable from 2012 through 2016, jumped significantly in 2017, and by 2019 was 13% above the 2012 total.

**Figure 80. Marijuana offenses in Colorado schools, 2012–2019**



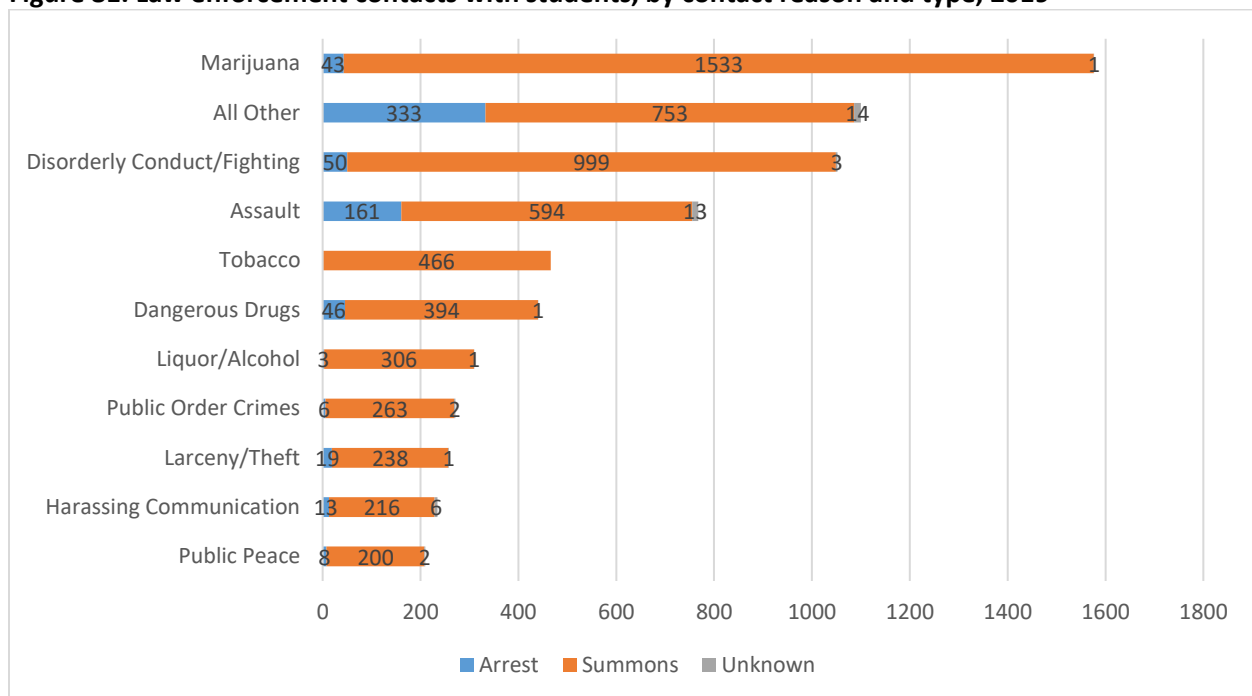
Source: Colorado Bureau of Investigation, National Incident-Based Reporting System.  
 Note: Prior to 2012 school/university was a single location code. There were 258 offenses in 2012 using this more generic location code.

### Law Enforcement Contacts with Students

Colorado Revised Statute 22-32-146(5) mandates that local law enforcement agencies annually report specific information to the Division of Criminal Justice (DCJ) concerning every incident that resulted in a student's arrest, summons or ticket during the previous academic year for an offense that occurred at a public elementary school, middle or junior high school, or high school; in a school vehicle; or at a school activity or sanctioned event.<sup>63</sup>

Figure 82 presents the most common reasons for law enforcement contact among those agencies that reported to DCJ, with marijuana at the top of the list. The 1,577 contacts for marijuana account for 24% of all contacts reported in 2018-2019 (6,688). The vast majority of these contacts resulted in a summons (97%) rather than an arrest (3%).

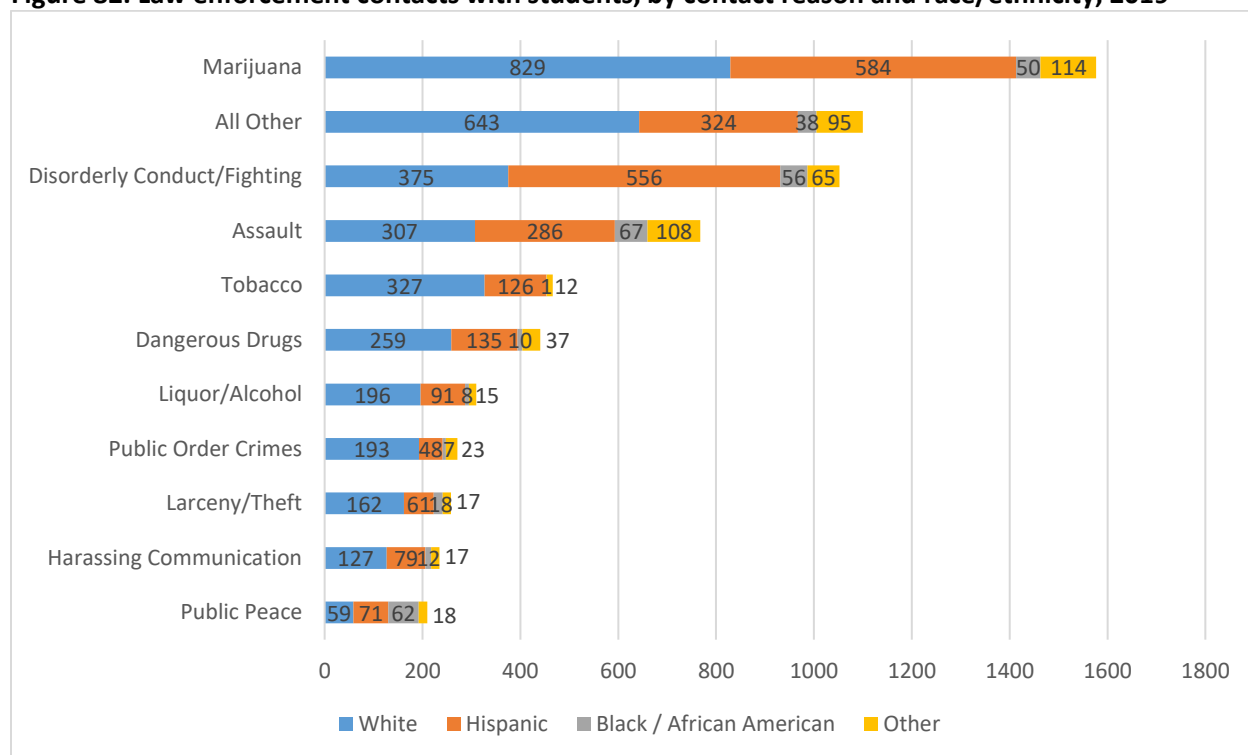
**Figure 81. Law enforcement contacts with students, by contact reason and type, 2019**



Source. Colorado Division of Criminal Justice (2020). Law Enforcement Contacts with Students, Academic Year 2018-19. See <https://ors.colorado.gov/ors-studentcontacts-1819>

Figure 83 shows the type of law enforcement contact by race/ethnicity. In 2019, there were 829 law enforcement contacts with White students (53%), 584 with Hispanic students (37%), 50 with Black students (3%), and 114 with students of other races (7%). These proportions are almost identical to the racial/ethnic distribution in Colorado schools overall.

<sup>63</sup> For additional information please visit [https://www.colorado.gov/pacific/dcj-ors/StudentContact\\_SD](https://www.colorado.gov/pacific/dcj-ors/StudentContact_SD)

**Figure 82. Law enforcement contacts with students, by contact reason and race/ethnicity, 2019**

Source: Colorado Division of Criminal Justice (2020). Law Enforcement Contacts with Students, Academic Year 2018-19. See <https://ors.colorado.gov/ors-studentcontacts-1819>

### School Discipline Data Trends

Many educators, law enforcement officials, school counselors, and others who work with juveniles are concerned that marijuana legalization could lead to an increase in school discipline for drug-related activity. School discipline, including suspension or expulsion, can disrupt academic achievement, increase the probability of future involvement in the justice system, and normalize punitive social control early in a student's life.<sup>64</sup>

The Colorado Department of Education reports disciplinary data on suspensions, expulsions, and law enforcement referrals for each school year.<sup>65</sup> A number of reasons for discipline are reported, including drugs, alcohol, tobacco, serious assault, minor assault, robbery, other felonies, disobedience, detrimental behavior, destruction of property, and other violations. The drug category covers all drugs and does not break out marijuana separately. However, since marijuana is currently the most commonly used illicit drug in elementary and secondary schools (tobacco and alcohol are tracked in separate categories), changes in trends are likely to be related to changes in use and possession of marijuana on school grounds or changes to school response or reporting of illicit drug use. In 2015, legislation was

<sup>64</sup> Ramey, D. (2016). The influence of early school punishment and therapy/medication on social control experiences during young adulthood, *Criminology*, *Online Early publication*, available at <http://onlinelibrary.wiley.com/doi/10.1111/1745-9125.12095/abstract>

<sup>65</sup> Colorado Department of Education, Suspension and expulsion statistics, available at <http://www.cde.state.co.us/cdereval/suspend-expelcurrent>

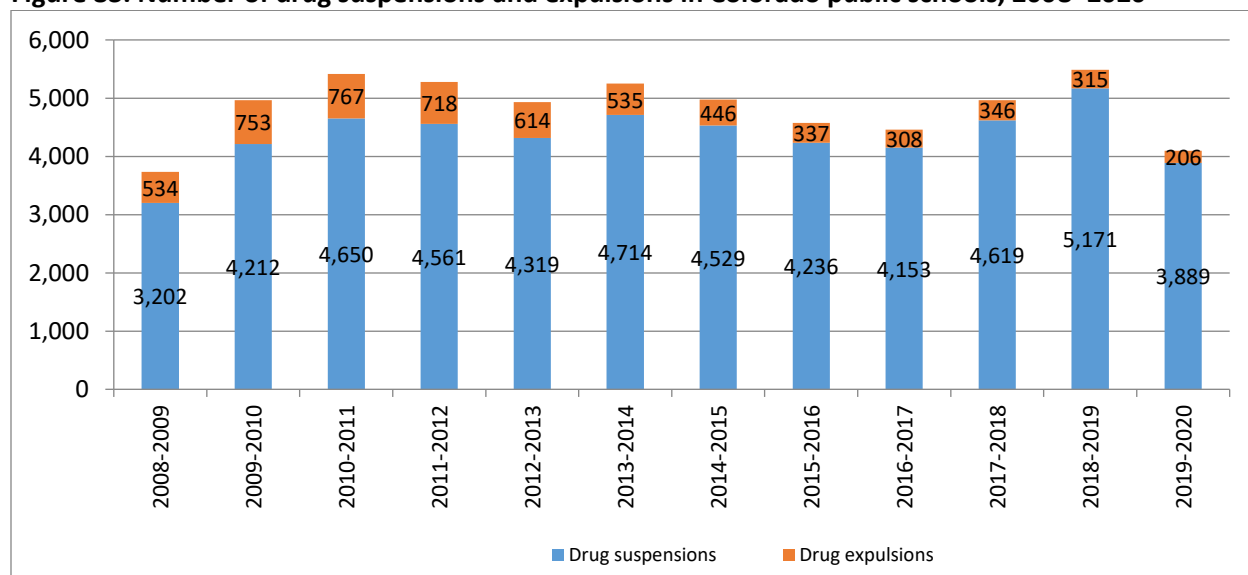
passed instructing the Department of Education to begin collecting discipline data about marijuana separately from other drugs. The first full year of marijuana-specific data became available for the 2016–2017 school year.

Prior to the 2012 school year, legislation (Senate Bill 12-046 and House Bill 12-1345) modified some zero-tolerance policies that had resulted in what some considered “unnecessary expulsions, suspensions, and law enforcement referrals.”<sup>66</sup> *This change in the law should be taken into account when examining disciplinary trends.*

Data regarding suspensions, expulsions, and law enforcement referrals are publicly available at the Colorado Department of Education’s website. These raw numbers were transformed into rates per 100,000 students to take the increased number of students into account. Specifically, in the 2008–2009 school year, 818,443 students were enrolled in Colorado schools and, by 2019–2020, that number increased to 913,223.<sup>67</sup> A student may be involved in more than one disciplinary incident, so these rates do not equate to the percentage of students receiving disciplinary action in a given year.

The number of suspensions and expulsions for drugs remained stable from the period 2009–2010 and 2018–2019 (Figure 84). The number dropped in 2020 because there were fewer students present in school during the latter part of the school year due to the COVID-19 pandemic.

**Figure 83. Number of drug suspensions and expulsions in Colorado public schools, 2008–2020**



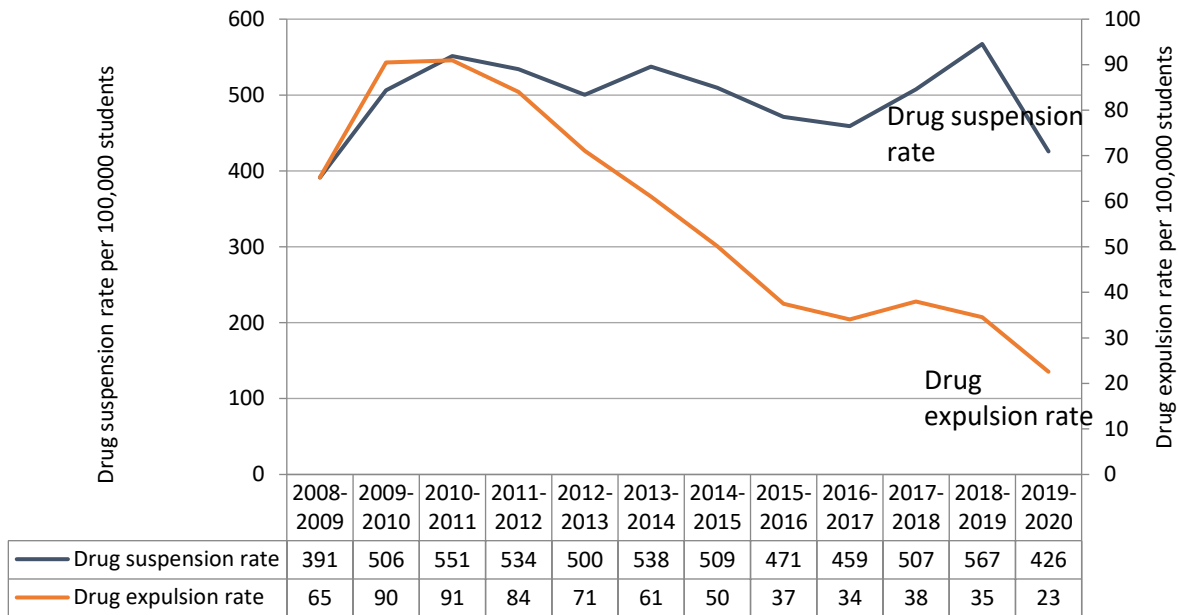
Source: Colorado Department of Education, at <http://www.cde.state.co.us/cdereval/suspend-expelcurrent>

The drug suspension rate (per 100,000 pupils) has remained relatively stable since the 2010–2011 school year (Figure 85). The drug expulsion rate decreased significantly from the 2010–2011 school year (90 per 100,000 pupils) to the 2018–2019 school year (35 per 100,000 pupils).

<sup>66</sup> Colorado School Safety Resource Center, Discipline in Schools, available at <https://cssrc.colorado.gov/discipline-in-schools>.

<sup>67</sup> Colorado Department of Education, pupil membership, available at <http://www.cde.state.co.us/cdereval/pupilcurrent>

**Figure 84. Drug suspension and expulsion rates (per 100,000 students), 2008–2020**

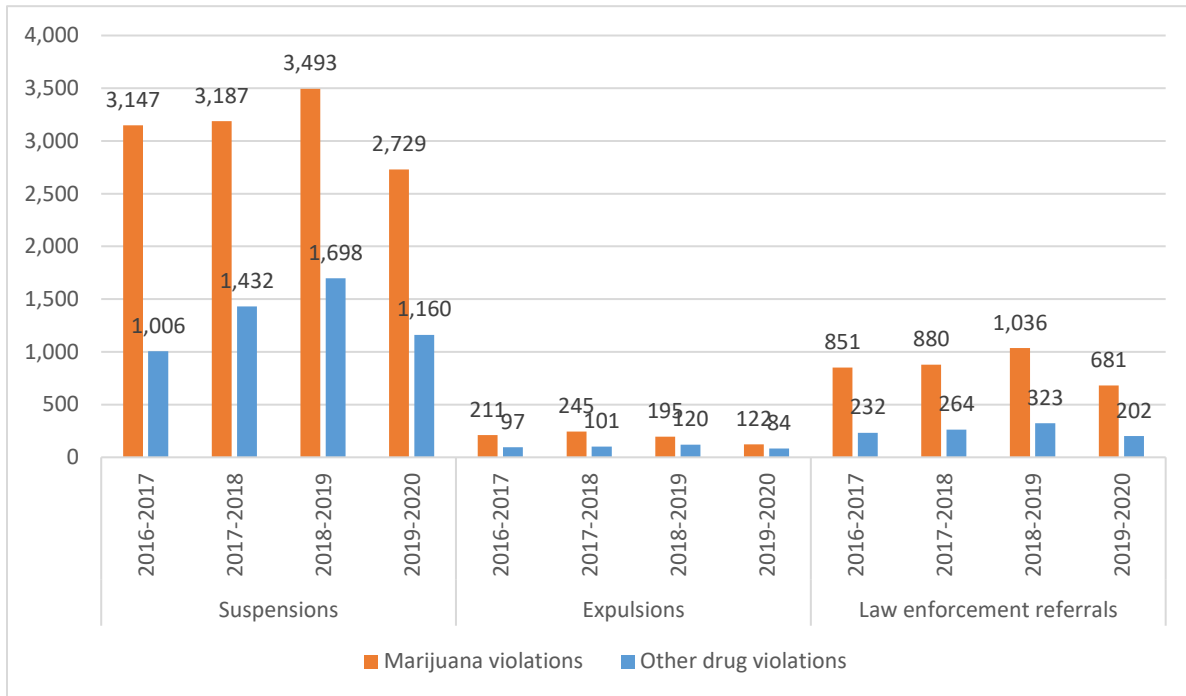


Source: Colorado Department of Education, at <http://www.cde.state.co.us/cdereval/suspend-expelcurrent>

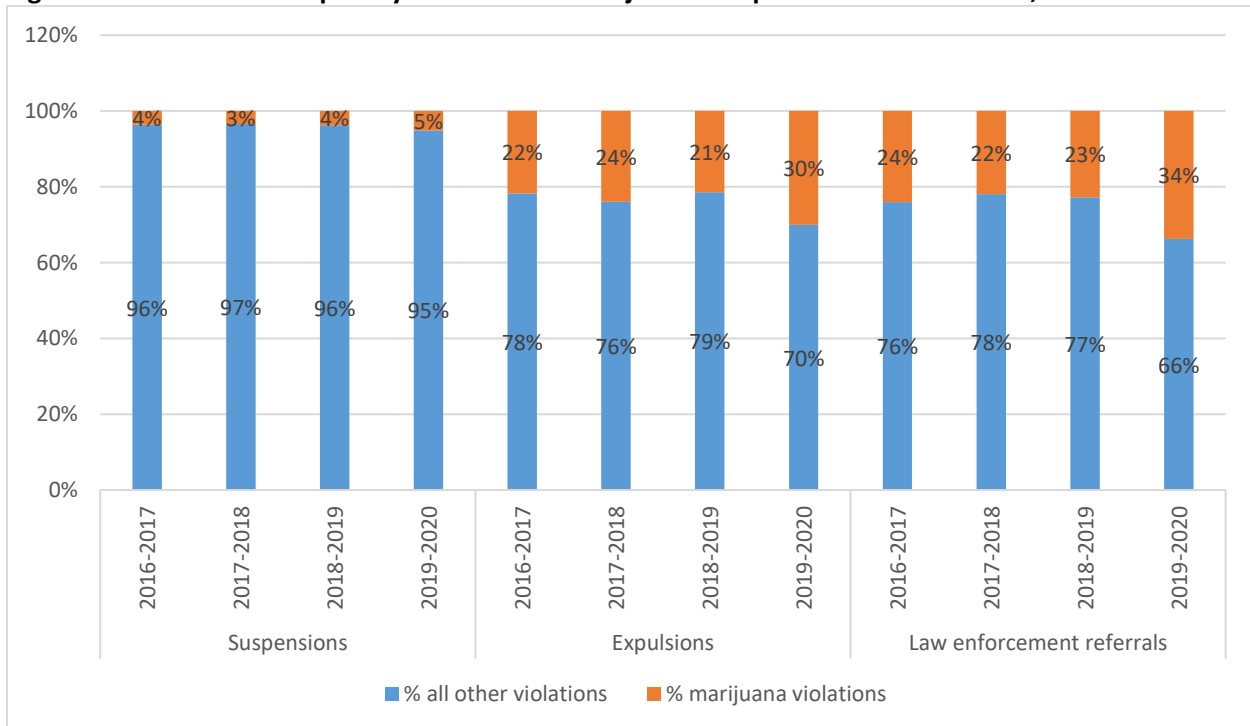
The 2016-2017 school year was the first full year of reporting marijuana separately from other drugs as a disciplinary reason. Figure 86 presents information on disciplinary incidents for both marijuana and other drugs. In 2019-2020, marijuana accounted for about 70% of all drug suspensions, 59% of drug expulsions, and 77% of law enforcement referrals for drugs (Figure 86).

In the context of all disciplinary incidents, marijuana accounted for 5% of all suspensions, was related to 30% of all expulsions, and 34% of all law enforcement referrals in the 2019-20 school year (Figure 87).

**Figure 85. Disciplinary incidents for drugs in Colorado schools, 2016–2020**



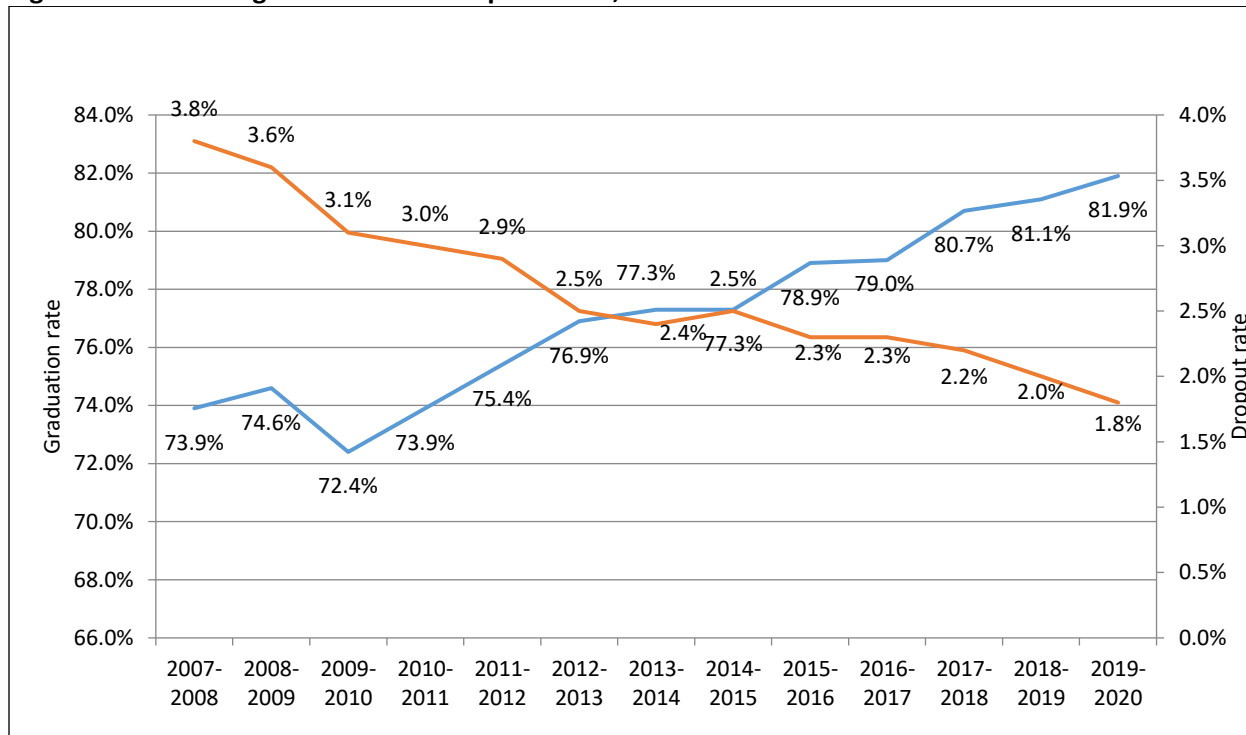
**Figure 86. Percent of disciplinary incidents for marijuana compared to other reasons, 2016–2020**



Source: Colorado Department of Education, at <http://www.cde.state.co.us/cdereval/suspend-expelcurrent>

There was a concern that school dropouts would increase and graduation rates would decrease after legalization. This is not reflected in the data presented in Figure 88.

**Figure 87. Colorado graduation and dropout rates, 2007–2020**



Source: Colorado Department of Education, <http://www.cde.state.co.us/cdereval>

In sum, since legalization, reported disciplinary incidents due to drugs have not increased. It should be noted that recent declines in rates of suspension and expulsion, and fewer referrals to law enforcement, are likely associated with school reform efforts mandated in Senate Bill 12-046 and House Bill 12-1345.

**Probation Testing Data**

Colorado’s Probation Departments conduct drug tests on juvenile probationers. The frequency of testing is determined by assessment, court orders, and other case-related information. Table 37 presents information on the percentage of juvenile probationers who tested positive for THC. The percentage of the 10- to 14-year-old group testing positive for THC one or 2 times has remained relatively stable, at about 20%, while the percentage testing positive 3 or more times rose from 16% to 23% from 2012 to 2019. The percentage of 15- to 17-year-olds testing positive one or 2 times was also stable, at around 25%, while those testing positive 3 or more times increased from 23% to 31%. There is currently no link between probationer drug testing results and probation status, so it remains unknown if changes in drug use patterns affect probation violations.

**Table 37. Juvenile probationer test results for THC, 2012–2019**

| Age Group          | Times tested positive            | Percent of probationers testing positive for THC |       |       |       |       |       |       |       |
|--------------------|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
|                    |                                  | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
| 10 to 14 years old | N probationers with test results | 652  | 492   | 520   | 493   | 453   | 388   | 349   | 354   |
|                    | 0 times                          | 66%  | 60%   | 54%   | 58%   | 51%   | 56%   | 52%   | 53%   |
|                    | 1-2 times                        | 19%  | 20%   | 25%   | 22%   | 29%   | 20%   | 23%   | 23%   |
|                    | 3 or more times                  | 16%  | 20%   | 20%   | 20%   | 20%   | 23%   | 24%   | 23%   |
| 15 to 17 years old | N probationers with test results | 3,377  | 2,599 | 2,776 | 2,643 | 2,523 | 2,324 | 2,219 | 2,121 |
|                    | 0 times                          | 50%  | 51%   | 48%   | 47%   | 46%   | 44%   | 44%   | 44%   |
|                    | 1-2 times                        | 27%  | 24%   | 25%   | 25%   | 26%   | 26%   | 25%   | 25%   |
|                    | 3 or more times                  | 23%  | 25%   | 27%   | 28%   | 28%   | 30%   | 31%   | 31%   |

Source: Colorado Division of Probation Services.

Note: The number of active juvenile clients decreased from 5,156 in Fiscal Year 2012 to 3,152 in Fiscal Year 2019.

The percentage of total tests with positive results for THC is presented in Table 38. For 10- to 14-year-olds, the percentage of tests that were positive for THC increased from 31% in 2012 to 39% in 2014, where it remained in 2019. The 15- to 17-year-old group showed similar results, with 28% of tests positive in 2012, increasing to 41% in 2019.

**Table 38. Percent of juvenile probationer drug test results for THC that are positive, 2012–2019**

| Age Group      | Times      | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   |
|----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 10 to 14 years | N tests    | 2,542  | 2,002  | 2,223  | 2,340  | 2,207  | 1,893  | 1,873  | 1,876  |
|                | % positive | 31%    | 35%    | 39%    | 37%    | 38%    | 39%    | 39%    | 38%    |
| 15 to 17 years | N tests    | 23,094 | 17,241 | 20,183 | 18,737 | 18,707 | 16,394 | 16,044 | 15,040 |
|                | % positive | 28%    | 31%    | 33%    | 34%    | 35%    | 39%    | 40%    | 41%    |

Source: Colorado Division of Probation Services.

Note: The number of active juvenile clients decreased from 5,156 in fiscal year 2012 to 3,152 in fiscal year 2019.

## Drug-Endangered Children

Senate Bill 13-283 requires that information be collected on the impact of marijuana legalization on drug-endangered children. There is no agreement on the definition of that term and so no formal definition exists. The Colorado Department of Human Services does not have a method to track whether a child welfare case was prompted by any specific drug. Likewise, it is not possible to identify whether an arrest or court filing for child abuse/child endangerment has marijuana as a causal or contributing factor. This creates a significant gap in the information available on the topic.

In an attempt to address the General Assembly's concern about drug-endangered children, two sources of information are used to study the issue. First, a statewide survey of parents about their marijuana use and product storage at home (CDPHE's Child Health Survey) is examined below. This is followed by data from the Pregnancy Risk Assessment Monitoring System.

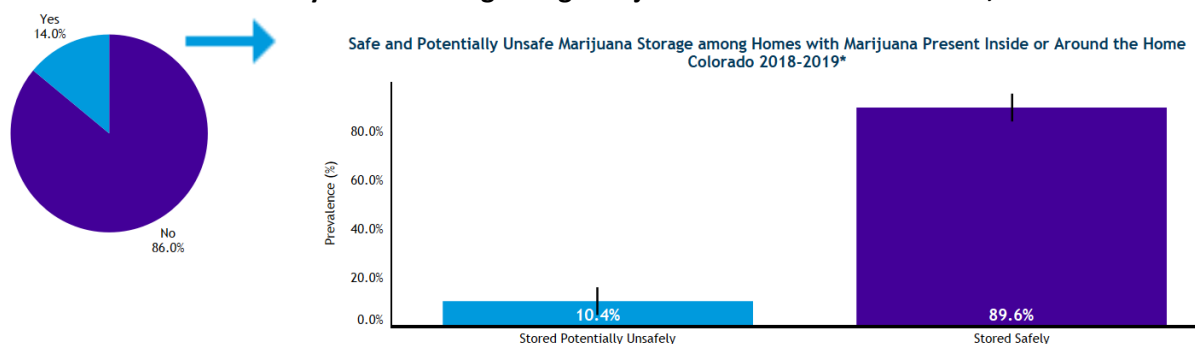


## Child Health Survey

The Child Health Survey<sup>68</sup> (CHS) is an adjunct to the annual Behavioral Risk Factor Surveillance Survey (BRFSS) conducted by CDPHE. Once respondents complete the BRFSS, the interviewer asks if they have a child between the ages of one and 14, and asks about their willingness to complete the Child Health Survey. The CHS asks questions on a variety of topics, including the child's physical activity, nutrition, access to health and dental care, behavioral health, school health, sun safety, injury, among others. Questions regarding parental marijuana use, storage, and consumption methods were added to the CHS in 2014. The methodology for the survey changed in 2018 so prior years of data are no longer presented by CDPHE.

Of homes with children ages one to 14 who participated in the 2018/2019 BRFSS and the Child Health Survey, 14.0% reported storing marijuana in homes where children live and 89.6% report storing the marijuana safely (Figure 89).

**Figure 88. Child Health Survey outcomes regarding marijuana in homes with children, 2018–2019**



Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment, Child Health Survey: Monitoring trends in marijuana use, at <https://marijuanahealthinfo.colorado.gov/health-data/child-health-survey-chs-data>

## Parental Treatment and Use Trends

### *Pregnancy Risk Assessment Monitoring System*

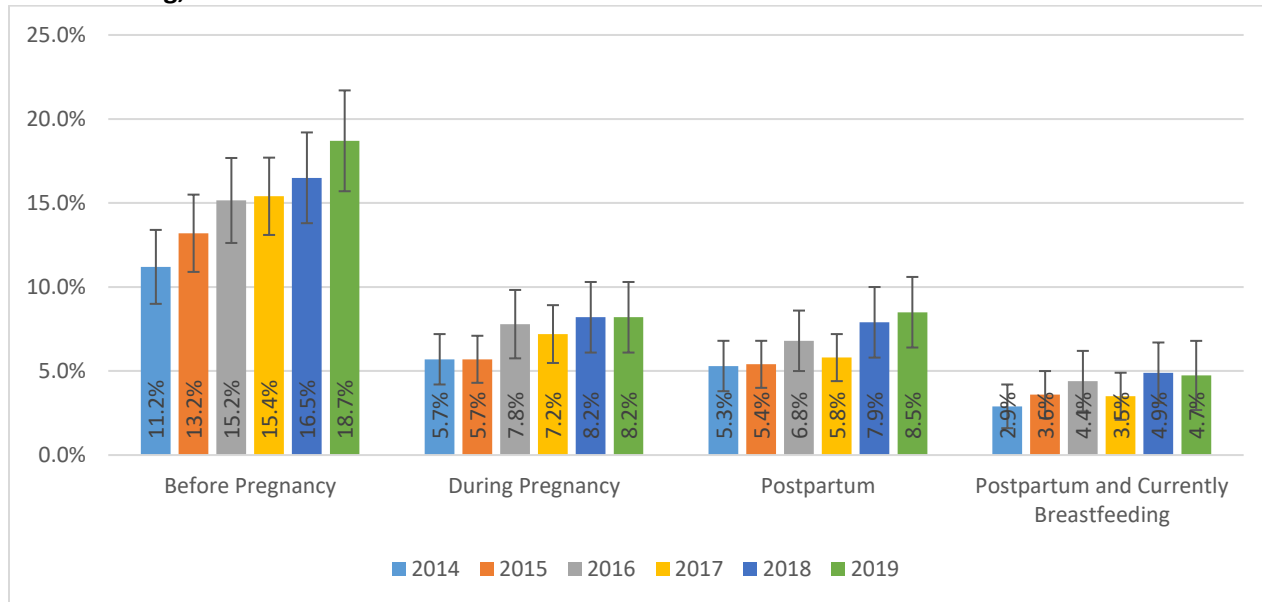
The Pregnancy Risk Assessment Monitoring System (PRAMS) is a surveillance system designed to identify and monitor behaviors and experiences of women before, during and after pregnancy. Information is collected by CDPHE by surveying a sample of women who have recently given birth. The PRAMS uses a combination of two data collection approaches: statewide mailings of the surveys, and a telephone follow-up with women who do not return the survey by mail. Beginning in 2014, CDPHE added specific marijuana questions to PRAMS, including use prior to pregnancy, use during pregnancy, and use while breastfeeding.

In 2019, most women were not using marijuana before, during, or in conjunction with breastfeeding (Figure 90). The proportion of women reporting use before pregnancy in 2019 (18.7%), during

<sup>68</sup> Additional information about the Child Health Survey is available at <https://cdphe.colorado.gov/center-for-health-and-environmental-data/survey-research/behavioral-risk-factor-surveillance-system>

pregnancy (8.2%), postpartum (8.5%), or postpartum and currently breastfeeding (4.7%) was not significantly different from the 2017 or 2018 survey results.

**Figure 89. Marijuana use before pregnancy, during pregnancy, postpartum, and postpartum breastfeeding, 2014–2019**



Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment, Marijuana use during pregnancy and breastfeeding in Colorado, at <https://marijuanahealthinfo.colorado.gov/health-data/pregnancy-risk-assessment-monitoring-system-prams-data>

In sum, this section focused on the impact of marijuana legalization on youth. Survey data reflect that the proportion of students using marijuana in their lifetime remained stable between 2005 and 2019, and lifetime use rates (at 35.9% in Colorado in 2019, according to HKCS) was not different from the national cohort. The proportion of Colorado students reporting past 30-day use remained statistically unchanged between 2005 and 2019 (at 20.6% in 2019, according to HKCS) and again was not different from the national cohort. Additionally, marijuana was the most common reason for law enforcement contact with students in 2019, but it is noteworthy that graduation rates continued to increase through the 2019-2020 academic year and dropout rates have remained stable since 2012-2013. The proportion of juveniles on probation who tested positive for THC increased between 2012 and 2019 but it is unknown how this affected revocation rates. Finally, a relatively small percentage of households reported storing marijuana in a home where children live (14.0%) and most (89.6%) store it safely away from children. The use of marijuana before pregnancy (18.7%), during pregnancy (8.2%), or in conjunction with breastfeeding (4.7%) has not changed significantly in the past two years.

## SECTION FIVE ADDITIONAL INFORMATION

### Licensing and Revenue

#### Marijuana Enforcement Division

The Marijuana Enforcement Division<sup>69</sup> (MED) is tasked with licensing and regulating the medical and retail marijuana industries in Colorado. The Division implements legislation, develops rules, conducts background investigations, issues business licenses, and enforces compliance mandates in order to maintain a robust regulatory structure. MED promotes transparency and clarity for all stakeholders by utilizing a highly collaborative process through which it develops industry regulations and furthers its primary mission of ensuring public safety.

#### Licensees Statewide

As reflected in Table 39, the total number of marijuana business licenses issued increased sharply for the first two years after legalization, up 36% from 2014 (2,249) to 2017 (3,051). The number of licensed premises has fallen slightly, down to 2,709 in 2019. This contraction occurred in the medical market while the retail market has maintained a stable number of licenses in the period 2016 to 2019.<sup>70</sup>

As of 2019, 108 jurisdictions allow for marijuana licenses to be issued within their borders (Table 40). There are 79 cities and 29 counties that allow marijuana businesses to operate. The most common type of license allowed is medical/retail (83), followed by medical only (13), and retail only (11). There is one county that does not allow any sales but only cultivation, production, and testing of retail marijuana.

The geographic distribution of license types is presented in Figures 91-99. Denver (994), El Paso (292), and Pueblo (276) are the counties with the most licensed premises. There is significant variation in license types throughout the different counties that represent differing policies regarding allowed business types in their jurisdictions.

<sup>69</sup> Additional information on the MED can be obtained at <https://sbg.colorado.gov/marijuanaenforcement>

<sup>70</sup> Labs test for potency of products, homogeneity of THC throughout a product, solvents, and microbial contamination.

**Table 39. Licensed marijuana premises, by license type, 2014-19**

|                         | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Total licensed premises | 2,249 | 2,592 | 2,934 | 3,051 | 2,973 | 2,709 |
| Medical                 | 1,416 | 1,469 | 1,584 | 1,531 | 1,396 | 1,147 |
| Centers                 | 505   | 516   | 528   | 506   | 473   | 442   |
| Cultivations            | 748   | 751   | 788   | 759   | 673   | 469   |
| Product manufacturers   | 163   | 202   | 524   | 254   | 239   | 219   |
| Testing facilities      | 0     | 0     | 14    | 12    | 11    | 12    |
| Operator                | 0     | 0     | 0     | 5     | 6     | 0     |
| Transporter             | 0     | 0     | 0     | 8     | 8     | 5     |
| Retail                  | 833   | 1,123 | 1,350 | 1,520 | 1,577 | 1,562 |
| Stores                  | 322   | 424   | 459   | 509   | 549   | 572   |
| Cultivations            | 397   | 514   | 633   | 720   | 735   | 684   |
| Product manufacturers   | 98    | 168   | 244   | 279   | 282   | 288   |
| Testing facilities      | 16    | 17    | 14    | 12    | 11    | 13    |
| Operator                | 0     | 0     | 0     | 6     | 9     | 0     |
| Transporter             | 0     | 0     | 0     | 10    | 10    | 5     |

Source: Colorado Department of Revenue, Marijuana Enforcement Division, 2014 Annual Update; 2015 Annual Update; 2016 MED Annual Update; 2017 MED Annual; 2018 MED Annual Update; 2019 MED Annual Update. At

<https://www.colorado.gov/pacific/enforcement/med-updates>

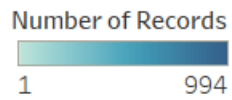
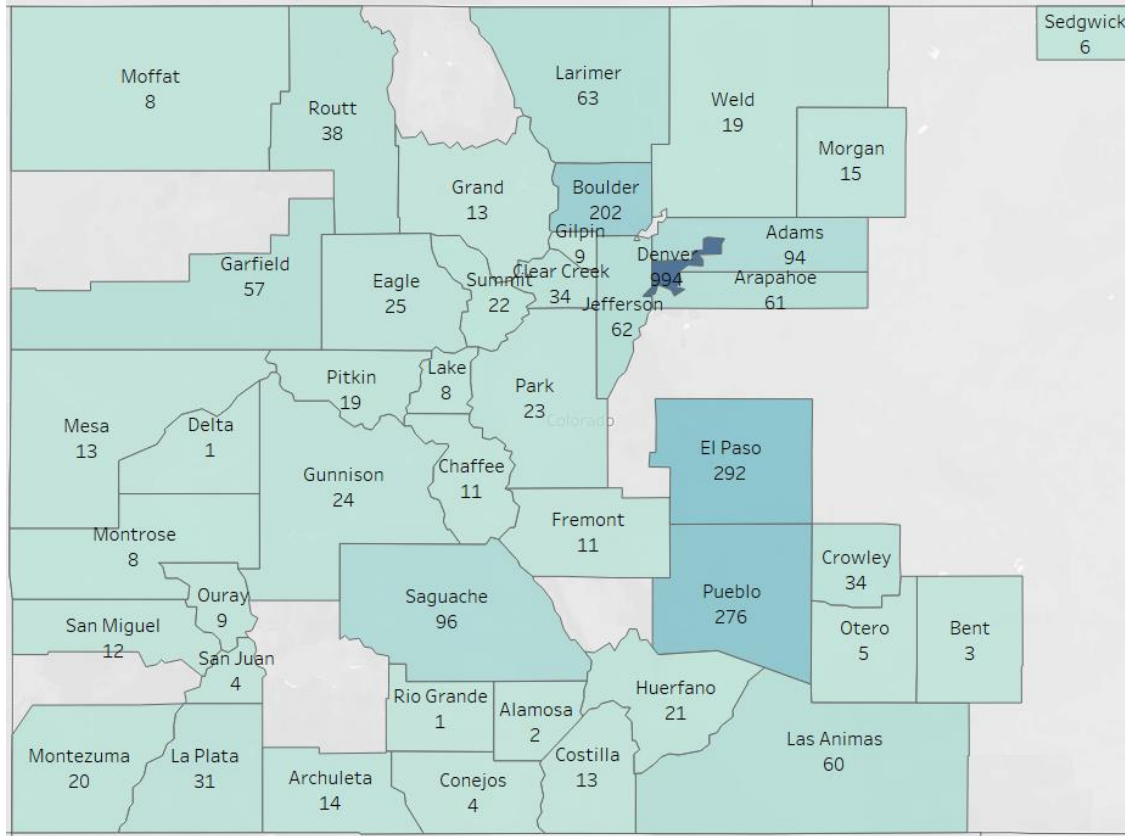
Note: For additional information on the different marijuana business license types and archived lists please visit: <https://sbg.colorado.gov/med-licensee-information>

**Table 40. Marijuana license types allowed, by jurisdiction type, 2019**

| Type of business allowed              | Jurisdiction type |        |       |
|---------------------------------------|-------------------|--------|-------|
|                                       | City              | County | Total |
| Medical/Retail                        | 63                | 20     | 83    |
| Medical Only                          | 8                 | 5      | 13    |
| Retail Only                           | 8                 | 3      | 11    |
| Retail Cultivation/Production/Testing | 0                 | 1      | 1     |
| Total                                 | 79                | 29     | 108   |

Source: Colorado Department of Revenue, Marijuana Enforcement Division, Local Authority Status List 01102019, at <https://drive.google.com/file/d/1GcdE3drg3xf74ix48ZsSME2s0rEw2-go/view>

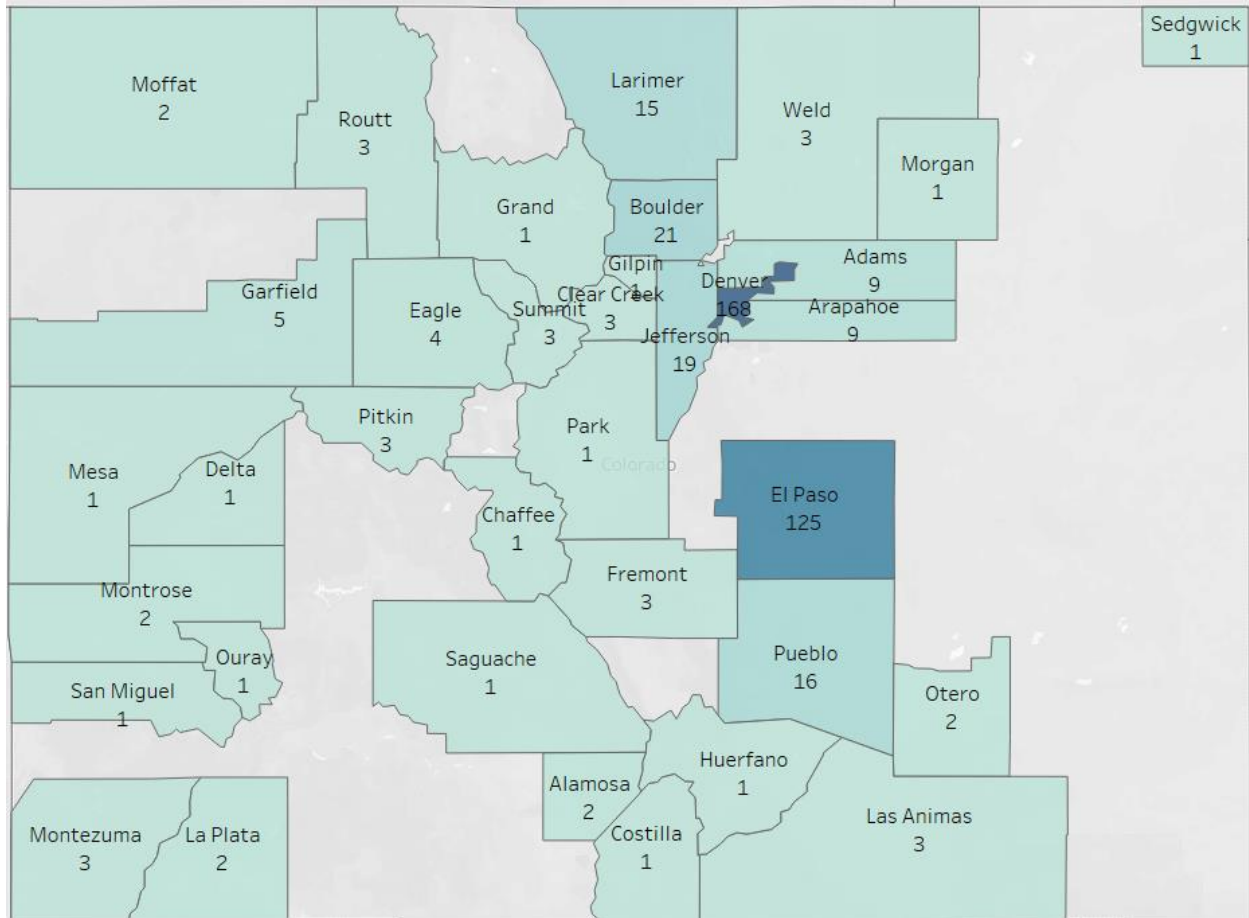
Figure 90. Marijuana licensees, by county, June 2020



Source: Colorado Department of Revenue, Marijuana Enforcement Division, MED Licensed Facilities, at <https://sbg.colorado.gov/med-licensee-information>



**Figure 92. Medical center licensees, by county, June 2020**

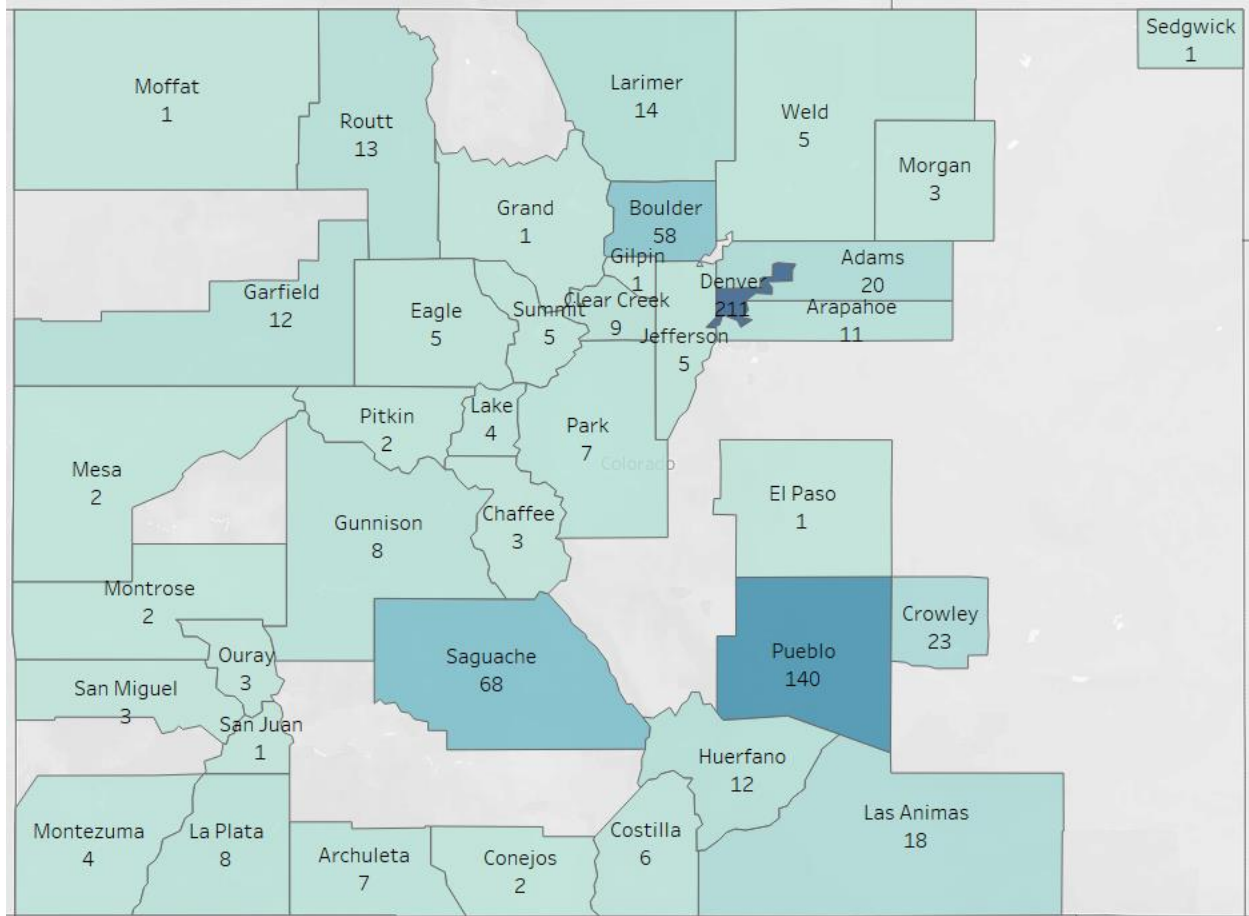


Number of Records



Source: Colorado Department of Revenue, Marijuana Enforcement Division, MED Licensed Facilities, at <https://sbg.colorado.gov/med-licensee-information>

**Figure 93. Retail cultivation licensees, by county, June 2020**



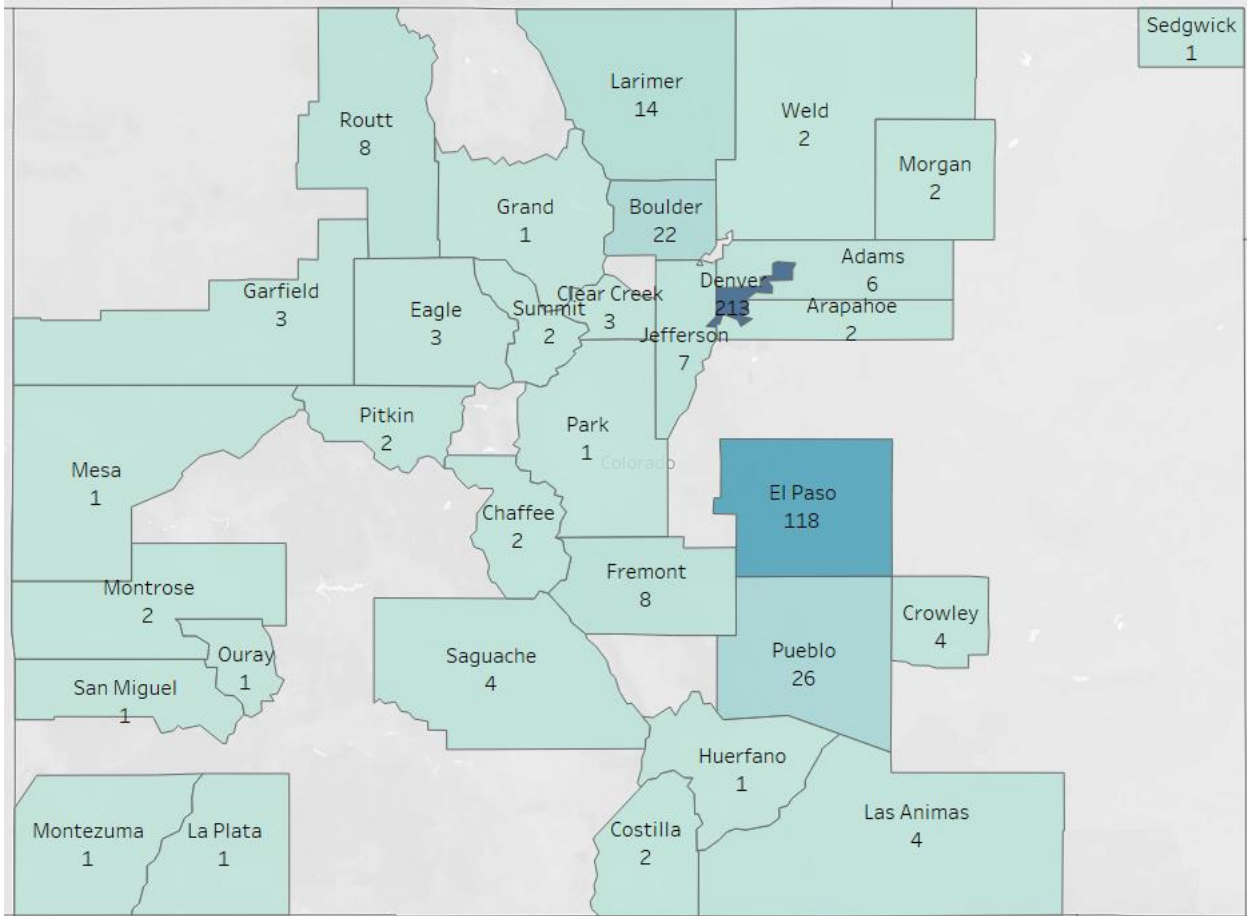
Number of Records



Source: Colorado Department of Revenue, Marijuana Enforcement Division, MED Licensed Facilities, at <https://sbg.colorado.gov/med-licensee-information>



**Figure 94. Medical cultivation licenses, by county, June 2020**



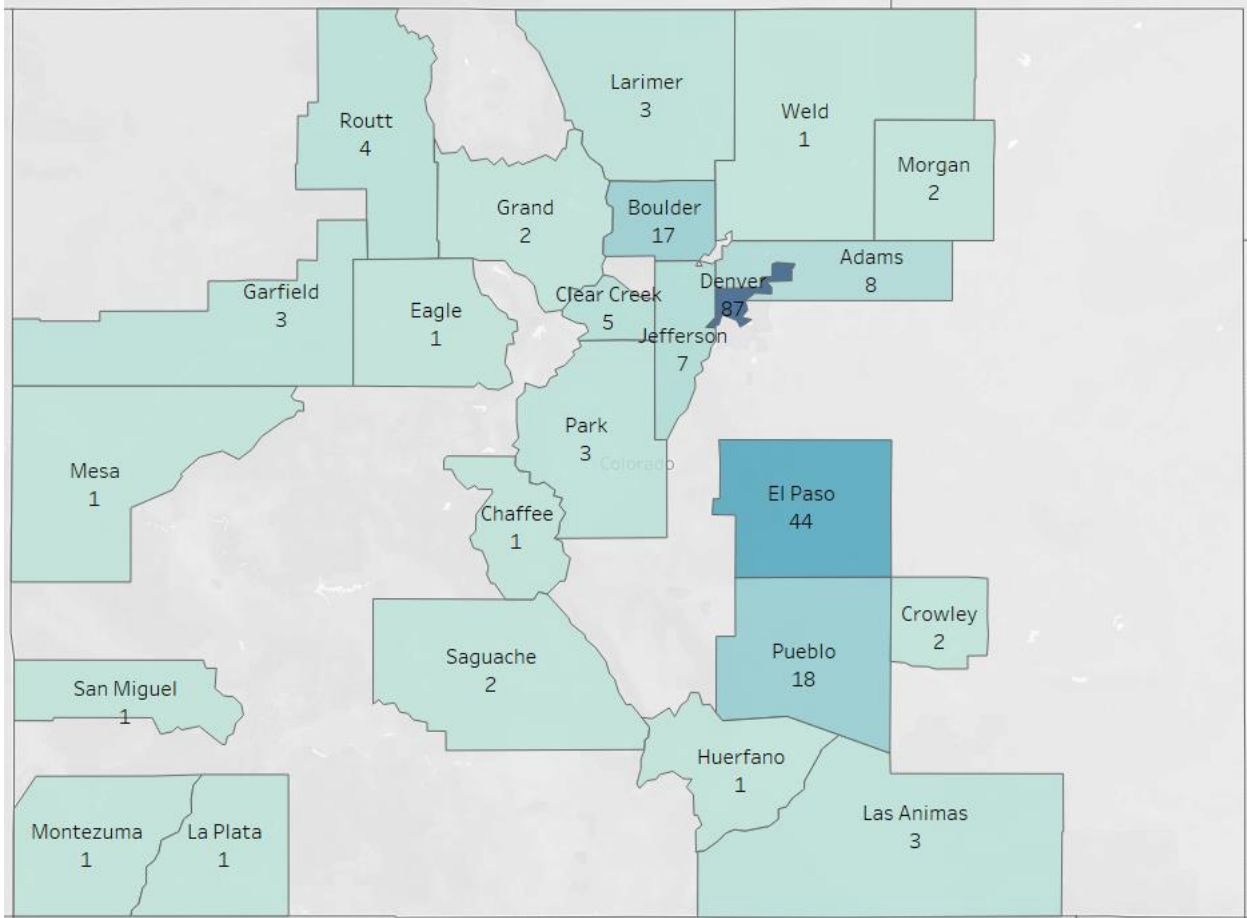
**Number of Records**



Source: Colorado Department of Revenue, Marijuana Enforcement Division, MED Licensed Facilities, at <https://sbg.colorado.gov/med-licensee-information>



**Figure 96. Medical product manufacture licenses, by county, June 2020**

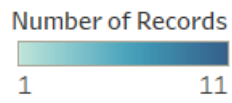
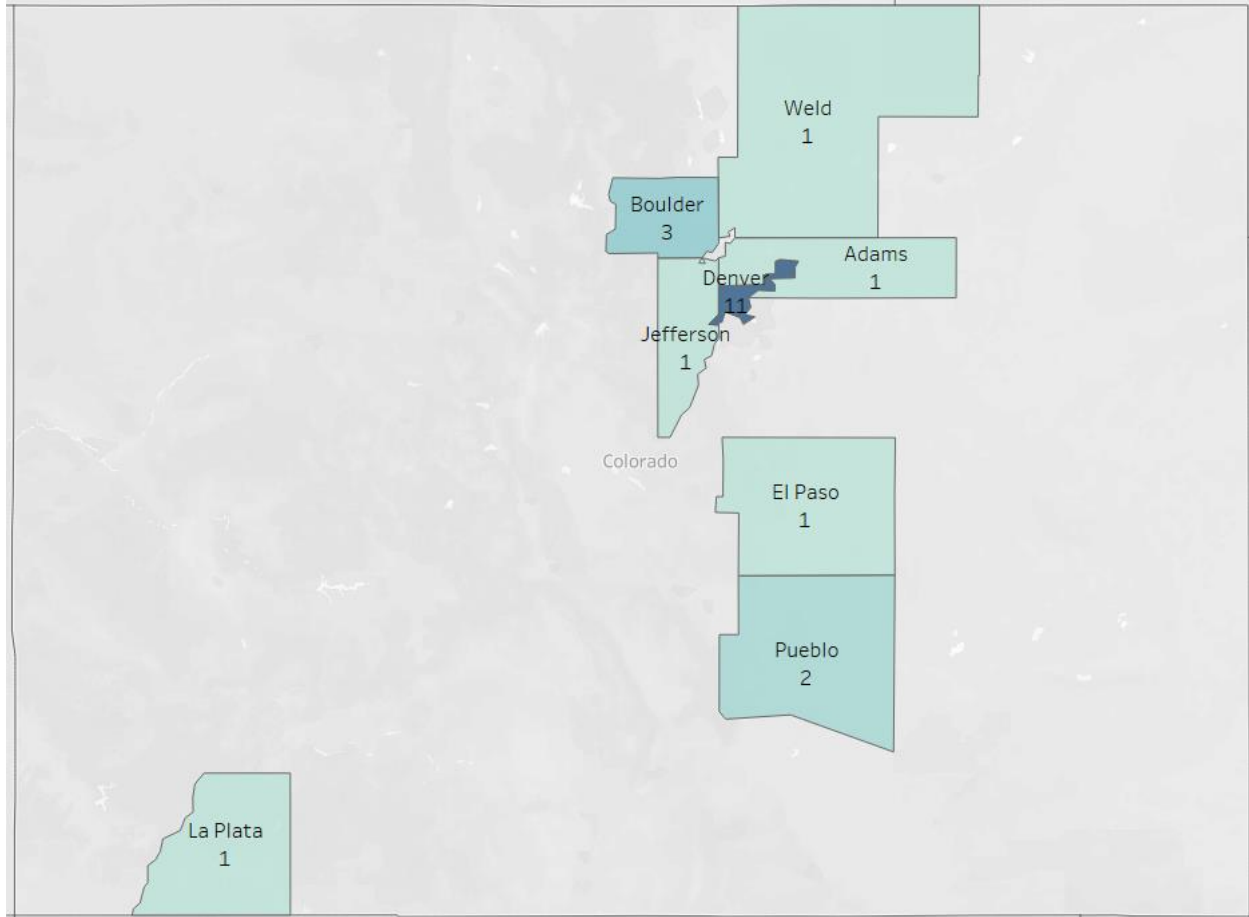


Number of Records



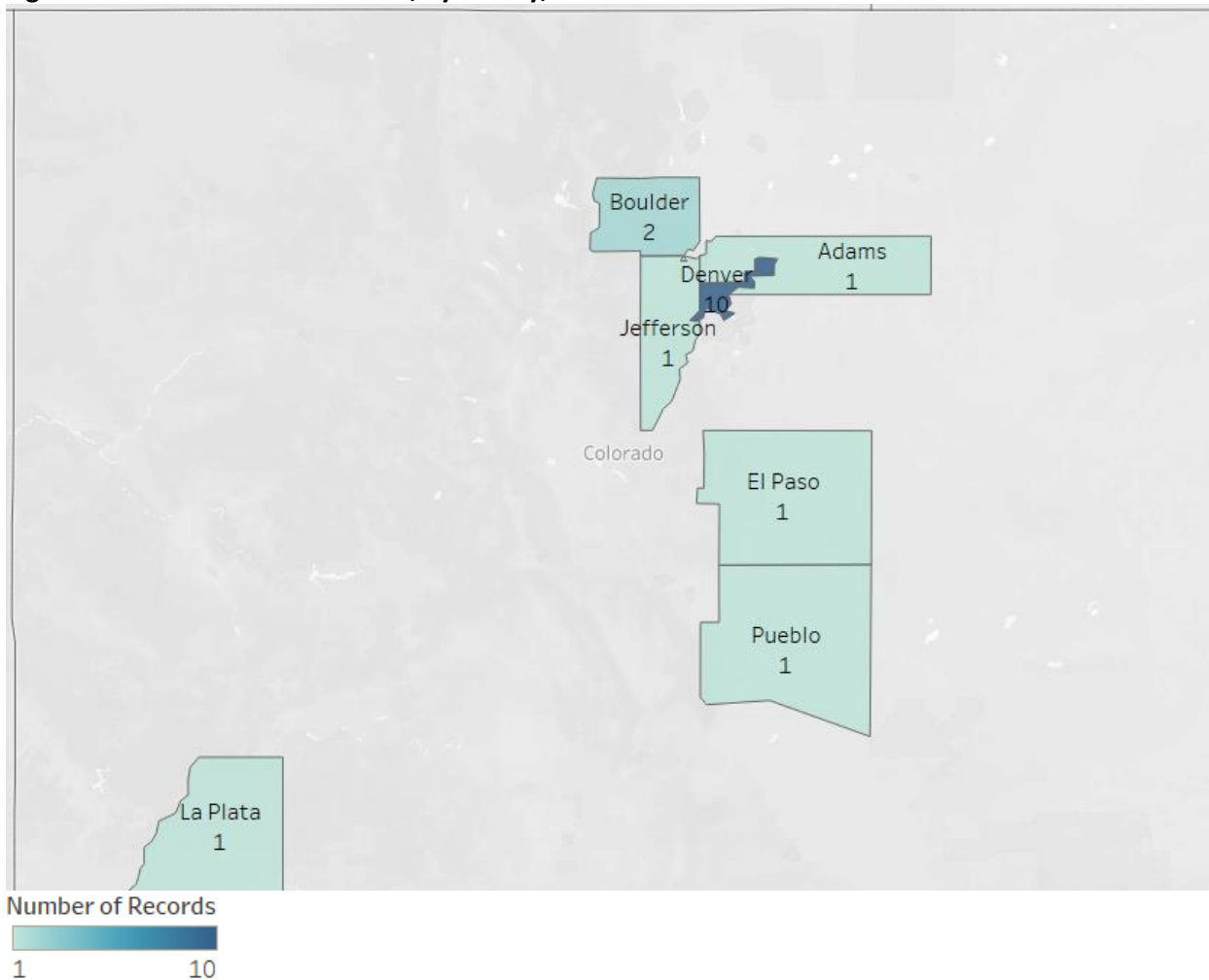
Source: Colorado Department of Revenue, Marijuana Enforcement Division, MED Licensed Facilities, at <https://sbg.colorado.gov/med-licensee-information>

Figure 97. Other retail licensees, by county, June 2020



Source: Colorado Department of Revenue, Marijuana Enforcement Division, MED Licensed Facilities, at <https://sbg.colorado.gov/med-licensee-information>

**Figure 98. Other medical licensees, by county, June 2020**

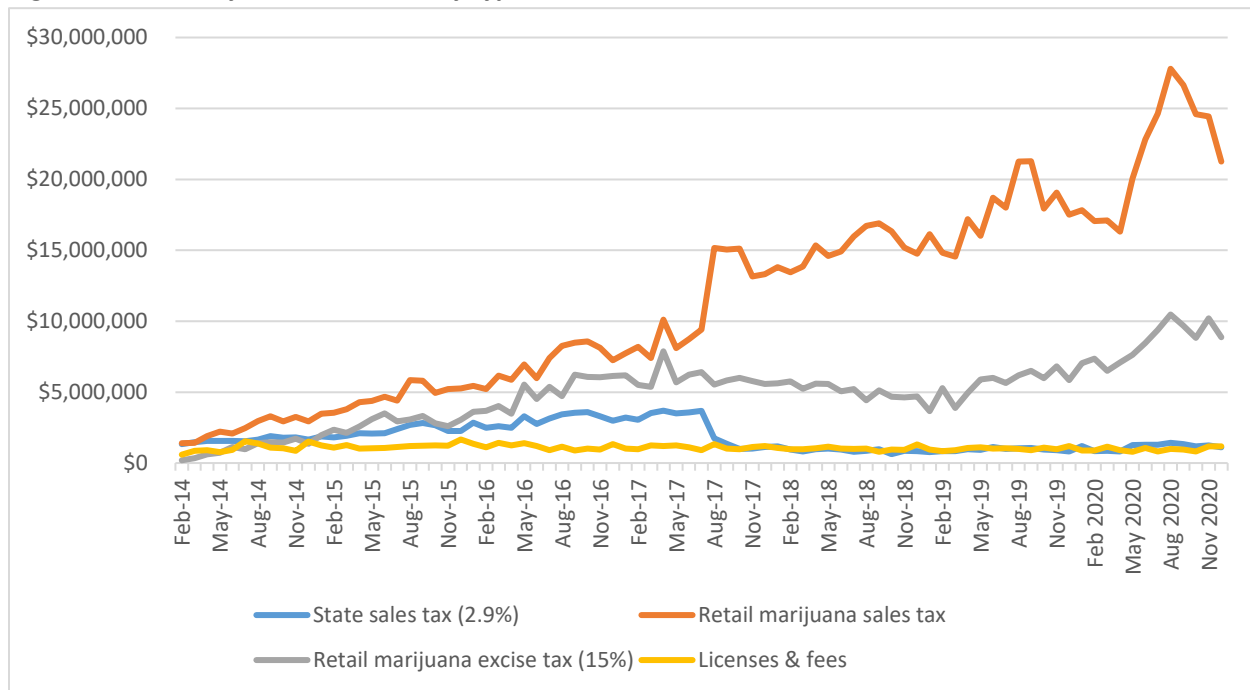


Source: Colorado Department of Revenue, Marijuana Enforcement Division, MED Licensed Facilities, at <https://sbg.colorado.gov/med-licensee-information>

Tax Revenue and Sales

The total revenue from taxes, licenses, and fees increased 473% from calendar year 2014 to 2020, going from \$67,594,325 up to \$387,480,111 (Figure 100 and Table 41). The revenue increase was driven by the sales taxes, excise taxes, licenses, and fees for retail marijuana. In calendar year 2020, total sales and excise taxes from retail marijuana accounted for \$363 million, or 94% of all marijuana revenue. On average, Colorado collected \$32 million per month in taxes, licenses, and fees from all marijuana sources in 2020 (Table 41).

The excise tax revenue collected to fund the Public School Capital Construction Assistance Fund reached about \$84 million in calendar year 2020, with an additional \$36 million sent to the Public School Fund. Between 2014 and 2020 marijuana excise taxes have contributed \$487 million dollars directly to school construction or other public school needs (Figure 101).

**Figure 99. Monthly taxes and fees, by type, 2014-2020**

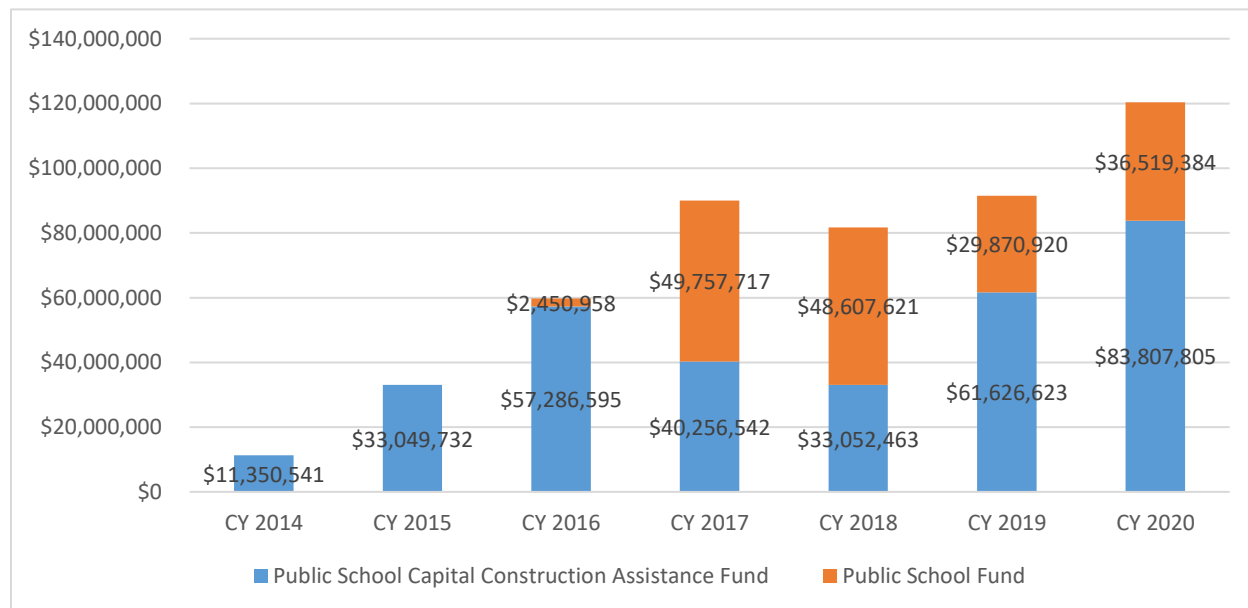
Source: Marijuana Enforcement Division (2020). Marijuana Tax Data, at <https://cdor.colorado.gov/data-and-reports/marijuana-data/marijuana-tax-reports>

**Table 41. Annual and average monthly taxes, licenses, and fees, 2014-2020**

| Calendar Year | Annual total collections |                |               | Average monthly collections |                |              |
|---------------|--------------------------|----------------|---------------|-----------------------------|----------------|--------------|
|               | Taxes                    | License & Fees | Taxes & Fees  | Taxes                       | License & Fees | Taxes & Fees |
| 2014          | \$56,102,639             | \$11,491,688   | \$67,594,325  | \$5,100,240                 | \$1,044,699    | \$6,144,939  |
| 2015          | \$116,003,360            | \$14,407,811   | \$130,411,174 | \$9,666,947                 | \$1,200,651    | \$10,867,598 |
| 2016          | \$179,619,617            | \$13,985,195   | \$193,604,811 | \$14,968,301                | \$1,165,433    | \$16,133,734 |
| 2017          | \$234,014,747            | \$13,353,727   | \$247,368,474 | \$19,501,229                | \$1,112,811    | \$20,614,040 |
| 2018          | \$254,295,129            | \$12,234,510   | \$266,529,637 | \$21,191,261                | \$1,019,542    | \$22,210,803 |
| 2019          | \$290,389,957            | \$12,068,468   | \$302,458,427 | \$24,199,163                | \$1,005,706    | \$25,204,869 |
| 2020          | \$375,885,988            | \$11,594,122   | \$387,480,111 | \$31,323,832                | \$966,177      | \$32,290,009 |

Source: Colorado Department of Revenue, Marijuana Enforcement Division (2020). Marijuana Tax Data, at <https://cdor.colorado.gov/data-and-reports/marijuana-data/marijuana-tax-reports>

**Figure 100. Transfer of marijuana excise and retail taxes to school construction fund and general public school fund, 2014-2020**



Source: Colorado Department of Revenue, Marijuana Enforcement Division (2021). Marijuana Tax Reports, at <https://cdor.colorado.gov/data-and-reports/marijuana-data/marijuana-tax-reports>

Note: Amendment 64 calls for the transfer of the first \$40 million in retail marijuana excise taxes to the Public School Capital Construction Assistance Fund (BEST) every year and anything additional be transferred to the general public school fund for the rest of the fiscal year. In 2018 a law was passed that allowed for more taxes to be transferred to the BEST fund.

The sales of retail marijuana products have increased 155%, from \$683 million in 2014 to \$1.75 billion in 2020 (Table 42). In 2020, an average of \$145 million per month in retail marijuana products were sold (Table 41 & Figure 101). The sales of medical marijuana products rebounded in 2020 from a three-year decline, accounting for \$442 million in sales (Table 43). The average monthly sales of medical marijuana products stands at \$37 million in 2020 (Table 42 and Figure 102).

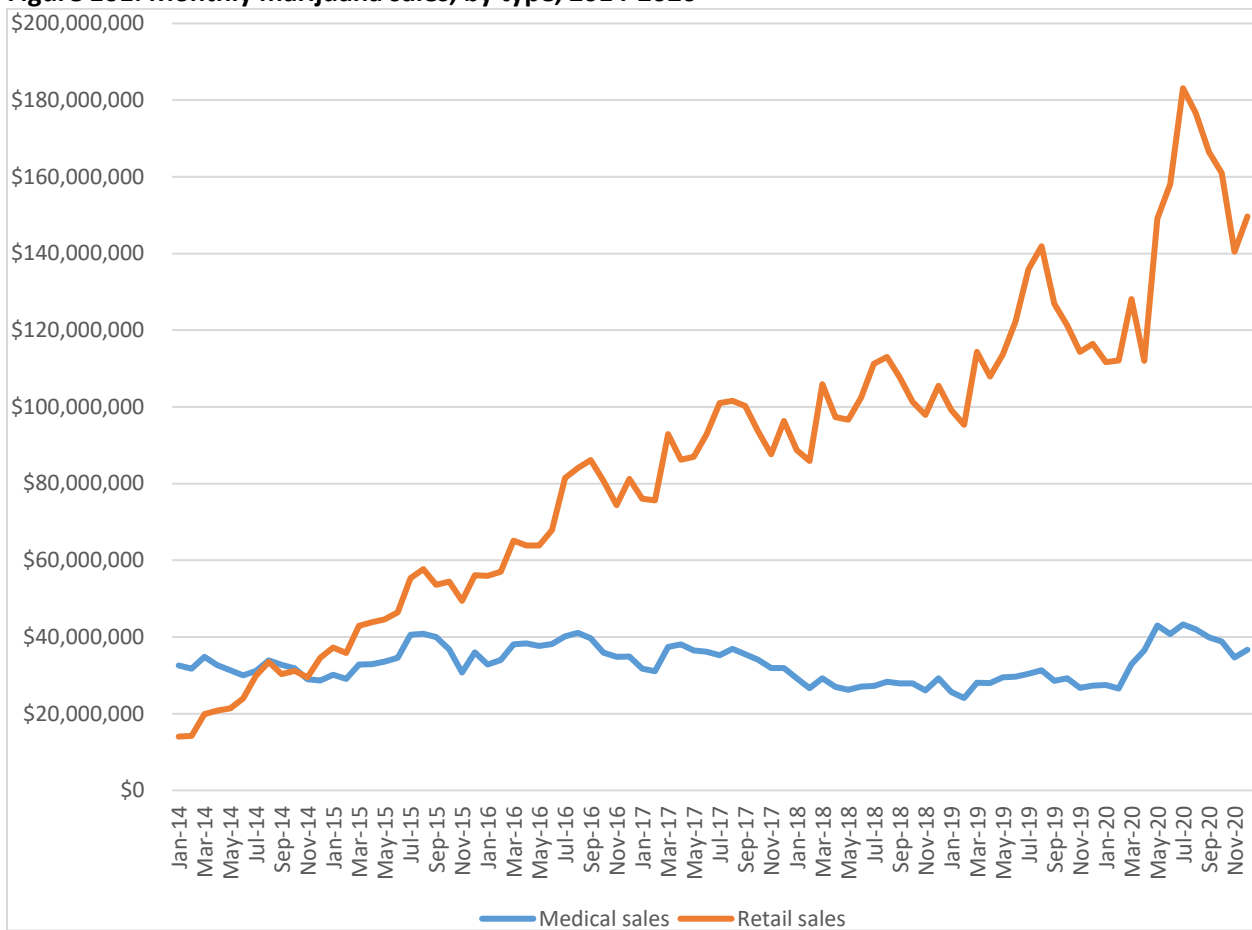
**Table 42. Annual and average monthly sales of marijuana products, 2014-2020**

| Calendar Year | Annual total sales |                 |                 | Average monthly sales |               |               |
|---------------|--------------------|-----------------|-----------------|-----------------------|---------------|---------------|
|               | Medical            | Retail          | Total           | Medical               | Retail        | Total         |
| 2014          | \$380,284,040      | \$303,239,699   | \$683,523,739   | \$31,690,337          | \$25,269,975  | \$56,960,312  |
| 2015          | \$418,054,912      | \$577,536,343   | \$995,591,255   | \$34,837,909          | \$48,128,029  | \$82,965,938  |
| 2016          | \$445,616,062      | \$861,587,411   | \$1,307,203,473 | \$37,134,672          | \$71,798,951  | \$108,933,623 |
| 2017          | \$416,516,782      | \$1,091,185,437 | \$1,507,702,219 | \$34,709,732          | \$90,932,120  | \$125,641,852 |
| 2018          | \$332,173,492      | \$1,213,517,589 | \$1,545,691,081 | \$27,681,124          | \$101,126,466 | \$128,807,590 |
| 2019          | \$338,488,190      | \$1,409,502,438 | \$1,747,990,628 | \$28,207,349          | \$117,458,537 | \$145,665,886 |
| 2020          | \$442,539,368      | \$1,748,552,311 | \$2,191,091,679 | \$36,878,281          | \$145,712,693 | \$182,590,973 |

Source: Colorado Department of Revenue, Marijuana Enforcement Division (2021). Marijuana Sales Reports, at <https://www.colorado.gov/pacific/revenue/colorado-marijuana-sales-reports>

Notes: Medical marijuana sales (gross sales minus wholesale) and sales of accessories/other products that do not contain medical marijuana. Retail marijuana sales (gross sales minus wholesale) and does not include sales of accessories/other products that do not contain retail marijuana.

**Figure 101. Monthly marijuana sales, by type, 2014-2020**



Source: Colorado Department of Revenue, Marijuana Enforcement Division (2020). Marijuana Sales Reports at <https://cdor.colorado.gov/data-and-reports/marijuana-data/marijuana-sales-reports>

Note: Medical marijuana sales (gross sales minus wholesale) and sales of accessories/other products that do not contain medical marijuana. Retail marijuana sales (gross sales minus wholesale) and does not include sales of accessories/other products that do not contain retail marijuana.

The number of cultivated medical marijuana plants fluctuated between 2014 and 2019, and in December 2019 319,374 plants were under cultivation (Table 43). The number of plants in the retail market increased each year, up from 216,802 in 2014 to 758,539 in 2019 (+250%). Recent trends indicate more sales of edibles and concentrates than marijuana bud or flower. Sales of units of retail edibles increased by 74% from 2016 to 2019, sales of concentrates increased 236%, and sales of retail flower/bud increased by 32% (Table 43).



**Table 43. Plants cultivated and annual sales totals, by type of marijuana product, 2014-2019**

|  | 2014      | 2015      | 2016      | 2017      | 2018       | 2019       |
|--|-----------|-----------|-----------|-----------|------------|------------|
| <b>Plants cultivated (monthly average in December)</b> |           |           |           |           |            |            |
| Medical  | 302,793   | 327,960   | 350,206   | 305,063   | 253,894    | 319,374    |
| Retail   | 216,802   | 346,921   | 525,225   | 669,044   | 722,532    | 758,539    |
| <b>Usable marijuana harvested<sup>1</sup></b>          |           |           |           |           |            |            |
| Medical (lbs)  | --        | --        | --        | 386,689   | 383,518    | 381,600    |
| Retail (lbs)   | --        | --        | --        | 612,333   | 801,258    | 997,764    |
| <b>Annual Sales</b>                                    |           |           |           |           |            |            |
| Medical bud/flower (lbs)                               | 109,578   | 144,537   | 159,998   | 172,994   | 147,863    | 118,373    |
| Retail bud/flower (lbs)                                | 38,660    | 106,932   | 175,642   | 238,149   | 288,292    | 232,056    |
| Medical infused edibles (units)                        | 1,964,917 | 2,261,875 | 2,117,838 | 1,851,098 | 1,842,325  | 1,699,841  |
| Retail infused edibles (units)                         | 2,850,733 | 5,280,297 | 7,250,936 | 9,295,329 | 10,927,543 | 12,613,520 |
| Medical infused non-edibles (units)                    | 411,099   | 485,362   | 292,401   | 210,823   | 179,586    | 144,123    |
| Retail infused non-edibles (units)                     | 359,412   | 801,215   | 761,764   | 843,646   | 1,027,993  | 993,226    |
| Medical concentrate (lbs) <sup>2</sup>                 | --        | --        | 10,037    | 14,092    | 14,652     | 15,603     |
| Retail concentrate (lbs) <sup>2</sup>                  | --        | --        | 7,611     | 13,798    | 19,315     | 24,626     |

Source: Colorado Department of Revenue, Marijuana Enforcement Division. *2014 Annual Update; 2015 Annual Update; 2016 MED Annual Update; 2017 MED Annual Update; 2018 MED Annual Update; 2019 MED Annual Update*, at <https://www.colorado.gov/pacific/enforcement/med-updates>

<sup>1</sup> Includes bud/flower, shake/trim, and wet whole plants.

<sup>2</sup> Sales amounts for concentrates was not reported prior to 2016.

## Medical Marijuana Cardholders

### Colorado Department of Public Health and Environment Process

The Medical Marijuana Registry is administered by the Colorado Department of Public Health and Environment (CDPHE) pursuant to CRS 25-1.5-106. To apply for a medical marijuana registry card, a person must be a Colorado resident with a valid Social Security number, be receiving treatment for a qualifying debilitating medical condition, and be examined by a doctor with whom the person has a bona fide physician-patient relationship. The doctor must recommend the use of marijuana for the patient's condition and specify the number of plants required to alleviate the symptoms of the condition. If the applicant is a minor, additional requirements apply, including a signed parental consent form, two separate physician recommendations, and a copy of the minor's state-issued birth certificate.

Cardholders can choose to grow their own marijuana plants or designate a caregiver to grow the plants for them. The commercial dispensary market can act as the caregiver and can service the number of

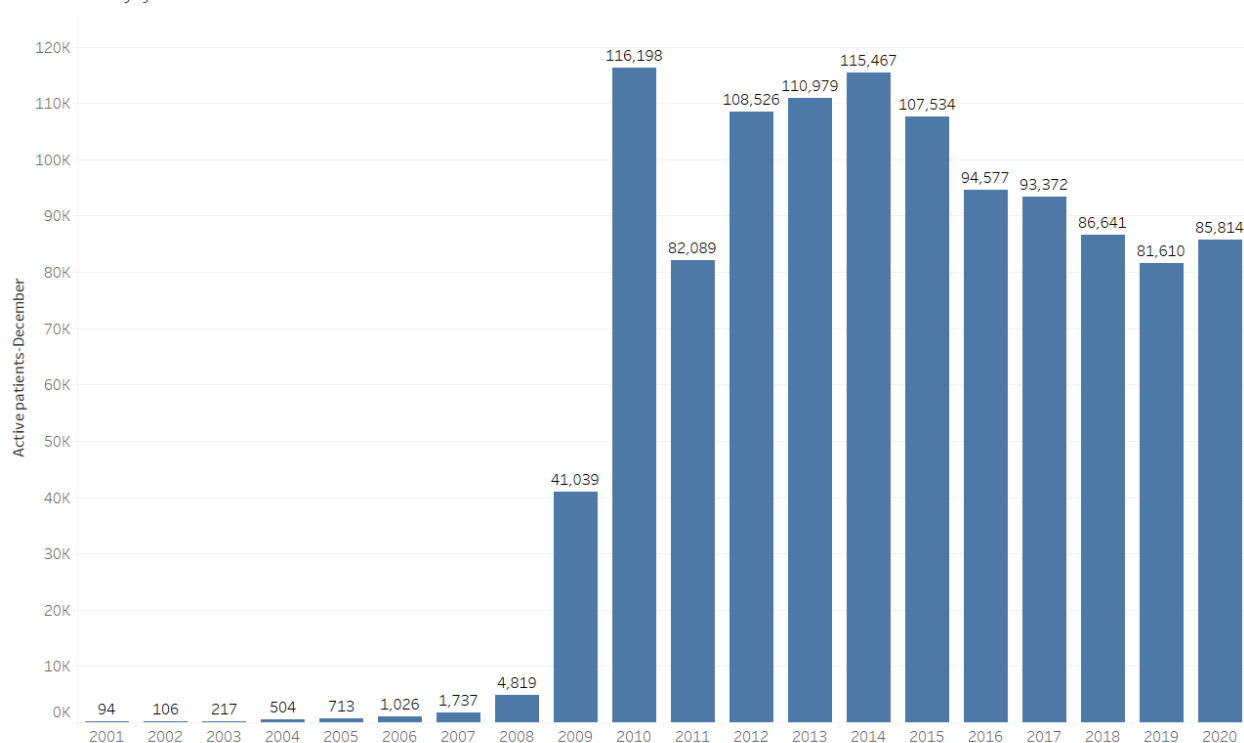
patients allowed by the Marijuana Enforcement Division.<sup>71</sup> Cardholders also have the choice of designating a private person as caregiver.

### Trend Data

The number of medical marijuana cardholders began to increase in 2009, after the commercialization of the caregiver market was allowed (Figure 103). From 2008 to 2010, 111,379 cardholders were added to the registry. The number of cardholders peaked in 2010 at 116,198 and has since decreased 26% by 2020 (85,814).

**Figure 102. Number of medical marijuana cardholders, 2001-2020**

Patients by year



Sum of Active patients-December for each Year. The marks are labeled by sum of Active patients-December.

Source: Medical Marijuana Registry, Colorado Department of Public Health and Environment (2020). Medical marijuana statistics and data, at <https://www.colorado.gov/pacific/cdphe/medical-marijuana-statistics-and-data>

Table 44 shows characteristics of registered cardholders in December 2020. The average age of a cardholder was 43 years old. The majority were male (60.9%) and with an average age of 41, while the average age of female cardholders (39.1%) was 44. Approximately half of all cardholders were over 40 (48.2%). The three most common conditions reported were severe pain (89.5%), muscle spasms (35.7%), and severe nausea (20.3%). A cardholder can report more than one debilitating condition.

<sup>71</sup> The Marijuana Enforcement Division licenses each dispensary to grow a certain number of plants based on the number of patients registered and their recommended plant count.

El Paso County had the most cardholders (24,553), followed by Denver (11,120), and Jefferson (8,117) Counties (Figure 104).

**Table 44. Medical marijuana cardholder characteristics, December 2020**

| Patient characteristics                     | N      | %      |
|---|--------|--------|
| Total                                       | 85,814 | 100.0% |
| <b>Gender</b>                               |        |        |
| Male  | 52,226 | 60.9%  |
| Female                                      | 33,562 | 39.1%  |
| <b>Age group</b>                            |        |        |
| 0-10  | 129    | 0.2%   |
| 11-17                                       | 143    | 0.2%   |
| 18-20                                       | 3,925  | 4.6%   |
| 21-30                                       | 19,576 | 22.8%  |
| 31-40                                       | 20,709 | 24.1%  |
| 41-50                                       | 14,401 | 16.8%  |
| 51-60                                       | 11,470 | 13.4%  |
| 61-70                                       | 11,680 | 13.6%  |
| 71 and Older                                | 3,781  | 4.4%   |
| <b>Reported condition<sup>a</sup></b>       |        |        |
| Cachexia                                    | 1,340  | 1.6%   |
| Cancer                                      | 4,010  | 4.7%   |
| Glaucoma                                    | 1,064  | 1.2%   |
| HIV/AIDS                                    | 0      | 0.0%   |
| Muscle Spasms                               | 30,630 | 35.7%  |
| Seizures                                    | 3,006  | 3.5%   |
| Severe Nausea                               | 17,418 | 20.3%  |
| Severe Pain                                 | 76,807 | 89.5%  |
| Post-Traumatic Stress Disorder (PTSD)       | 11,688 | 13.6%  |
| Autism Spectrum Disorder                    | 435    | 0.5%   |
| Recommending Marijuana in Lieu of an Opioid | 9,012  | 10.5%  |

Source: Medical Marijuana Registry, Colorado Department of Public Health and Environment, Medical marijuana statistics and data, at <https://cdphe.colorado.gov/medical-marijuana-registry-data>.

<sup>a</sup>Does not sum to 100% because patients may report more than one debilitating medical condition.



## Overall Crime in Colorado

Property offense rates remained relatively stable from 2012 to 2019, but the violent crime rate increased 26% from 2012 to 2019 (Table 45).

**Table 45. Offenses and offense rates in Colorado, by offense type, 2008–2019**

| Year | Number of total offenses |         | Offense rate, per 100,000 population |         |
|------|--------------------------|---------|--------------------------------------|---------|
|      | Property                 | Violent | Property                             | Violent |
| 2008 | 132,212                  | 16,062  | 2,639                                | 321     |
| 2009 | 131,141                  | 16,608  | 2,580                                | 327     |
| 2010 | 132,623                  | 16,676  | 2,570                                | 323     |
| 2011 | 131,800                  | 16,278  | 2,575                                | 318     |
| 2012 | 136,483                  | 15,719  | 2,630                                | 303     |
| 2013 | 138,275                  | 16,056  | 2,622                                | 305     |
| 2014 | 133,927                  | 16,355  | 2,503                                | 306     |
| 2015 | 141,634                  | 17,450  | 2,602                                | 321     |
| 2016 | 149,713                  | 18,787  | 2,695                                | 338     |
| 2017 | 152,032                  | 20,901  | 2,707                                | 372     |
| 2018 | 152,163                  | 22,624  | 2,672                                | 397     |
| 2019 | 149,189                  | 21,938  | 2,591                                | 381     |

Note: Violent crime includes murder/non-negligent manslaughter, rape, robbery, and aggravated assault. Property crime includes burglary, larceny/theft, motor vehicle theft, and arson. Two additional offenses were added into the category of rape in 2013.

Source: Colorado Bureau of Investigation, as analyzed by Colorado Division of Criminal Justice. See: Crime Statistics, at <https://ors.colorado.gov/ors-crimestats>

In sum, the information presented in this section shows that licenses for retail and medical marijuana stores were concentrated in Denver, El Paso and Boulder Counties. Overall, 40% of all licensed businesses were located in Denver County. Revenue from taxes, licenses and fees totaled \$387 million in 2020; retail establishments accounted for 94% of all marijuana revenue. In addition, in December 2020, there were 85,814 medical marijuana card holders, down 26% from 2010; 90% of card holders reported severe pain as the debilitating condition. Finally, across the state, crime decreased from 2012 to 2014 but increased in subsequent years.

**APPENDIX A**  
**OGDEN MEMORANDUM**



**U.S. Department of Justice**

Office of the Deputy Attorney General

The Deputy Attorney General

Washington, D.C. 20530

October 19, 2009

MEMORANDUM FOR SELECTED UNITED STATES ATTORNEYS

FROM:   
David W. Ogden  
Deputy Attorney General

SUBJECT: Investigations and Prosecutions in States  
Authorizing the Medical Use of Marijuana

This memorandum provides clarification and guidance to federal prosecutors in States that have enacted laws authorizing the medical use of marijuana. These laws vary in their substantive provisions and in the extent of state regulatory oversight, both among the enacting States and among local jurisdictions within those States. Rather than developing different guidelines for every possible variant of state and local law, this memorandum provides uniform guidance to focus federal investigations and prosecutions in these States on core federal enforcement priorities.

The Department of Justice is committed to the enforcement of the Controlled Substances Act in all States. Congress has determined that marijuana is a dangerous drug, and the illegal distribution and sale of marijuana is a serious crime and provides a significant source of revenue to large-scale criminal enterprises, gangs, and cartels. One timely example underscores the importance of our efforts to prosecute significant marijuana traffickers: marijuana distribution in the United States remains the single largest source of revenue for the Mexican cartels.

The Department is also committed to making efficient and rational use of its limited investigative and prosecutorial resources. In general, United States Attorneys are vested with “plenary authority with regard to federal criminal matters” within their districts. USAM 9-2.001. In exercising this authority, United States Attorneys are “invested by statute and delegation from the Attorney General with the broadest discretion in the exercise of such authority.” *Id.* This authority should, of course, be exercised consistent with Department priorities and guidance.

The prosecution of significant traffickers of illegal drugs, including marijuana, and the disruption of illegal drug manufacturing and trafficking networks continues to be a core priority in the Department’s efforts against narcotics and dangerous drugs, and the Department’s investigative and prosecutorial resources should be directed towards these objectives. As a general matter, pursuit of these priorities should not focus federal resources in your States on



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Subject: Investigations and Prosecutions in States Authorizing the Medical Use of Marijuana

individuals whose actions are in clear and unambiguous compliance with existing state laws providing for the medical use of marijuana. For example, prosecution of individuals with cancer or other serious illnesses who use marijuana as part of a recommended treatment regimen consistent with applicable state law, or those caregivers in clear and unambiguous compliance with existing state law who provide such individuals with marijuana, is unlikely to be an efficient use of limited federal resources. On the other hand, prosecution of commercial enterprises that unlawfully market and sell marijuana for profit continues to be an enforcement priority of the Department. To be sure, claims of compliance with state or local law may mask operations inconsistent with the terms, conditions, or purposes of those laws, and federal law enforcement should not be deterred by such assertions when otherwise pursuing the Department's core enforcement priorities.

Typically, when any of the following characteristics is present, the conduct will not be in clear and unambiguous compliance with applicable state law and may indicate illegal drug trafficking activity of potential federal interest:

- unlawful possession or unlawful use of firearms;
- violence;
- sales to minors;
- financial and marketing activities inconsistent with the terms, conditions, or purposes of state law, including evidence of money laundering activity and/or financial gains or excessive amounts of cash inconsistent with purported compliance with state or local law;
- amounts of marijuana inconsistent with purported compliance with state or local law;
- illegal possession or sale of other controlled substances; or
- ties to other criminal enterprises.

Of course, no State can authorize violations of federal law, and the list of factors above is not intended to describe exhaustively when a federal prosecution may be warranted. Accordingly, in prosecutions under the Controlled Substances Act, federal prosecutors are not expected to charge, prove, or otherwise establish any state law violations. Indeed, this memorandum does not alter in any way the Department's authority to enforce federal law, including laws prohibiting the manufacture, production, distribution, possession, or use of marijuana on federal property. This guidance regarding resource allocation does not "legalize" marijuana or provide a legal defense to a violation of federal law, nor is it intended to create any privileges, benefits, or rights, substantive or procedural, enforceable by any individual, party or witness in any administrative, civil, or criminal matter. Nor does clear and unambiguous compliance with state law or the absence of one or all of the above factors create a legal defense to a violation of the Controlled Substances Act. Rather, this memorandum is intended solely as a guide to the exercise of investigative and prosecutorial discretion.





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Finally, nothing herein precludes investigation or prosecution where there is a reasonable basis to believe that compliance with state law is being invoked as a pretext for the production or distribution of marijuana for purposes not authorized by state law. Nor does this guidance preclude investigation or prosecution, even when there is clear and unambiguous compliance with existing state law, in particular circumstances where investigation or prosecution otherwise serves important federal interests.

Your offices should continue to review marijuana cases for prosecution on a case-by-case basis, consistent with the guidance on resource allocation and federal priorities set forth herein, the consideration of requests for federal assistance from state and local law enforcement authorities, and the Principles of Federal Prosecution.

cc: All United States Attorneys

Lanny A. Breuer  
Assistant Attorney General  
Criminal Division

B. Todd Jones  
United States Attorney  
District of Minnesota  
Chair, Attorney General's Advisory Committee

Michele M. Leonhart  
Acting Administrator  
Drug Enforcement Administration

H. Marshall Jarrett  
Director  
Executive Office for United States Attorneys

Kevin L. Perkins  
Assistant Director  
Criminal Investigative Division  
Federal Bureau of Investigation



**APPENDIX B**  
**COLE MEMORANDUM**



**U.S. Department of Justice**


Office of the Deputy Attorney General

The Deputy Attorney General

Washington, D.C. 20530

August 29, 2013

**MEMORANDUM FOR ALL UNITED STATES ATTORNEYS**

**FROM:** James M. Cole   
Deputy Attorney General

**SUBJECT:** Guidance Regarding Marijuana Enforcement

In October 2009 and June 2011, the Department issued guidance to federal prosecutors concerning marijuana enforcement under the Controlled Substances Act (CSA). This memorandum updates that guidance in light of state ballot initiatives that legalize under state law the possession of small amounts of marijuana and provide for the regulation of marijuana production, processing, and sale. The guidance set forth herein applies to all federal enforcement activity, including civil enforcement and criminal investigations and prosecutions, concerning marijuana in all states.

As the Department noted in its previous guidance, Congress has determined that marijuana is a dangerous drug and that the illegal distribution and sale of marijuana is a serious crime that provides a significant source of revenue to large-scale criminal enterprises, gangs, and cartels. The Department of Justice is committed to enforcement of the CSA consistent with those determinations. The Department is also committed to using its limited investigative and prosecutorial resources to address the most significant threats in the most effective, consistent, and rational way. In furtherance of those objectives, as several states enacted laws relating to the use of marijuana for medical purposes, the Department in recent years has focused its efforts on certain enforcement priorities that are particularly important to the federal government:

- Preventing the distribution of marijuana to minors;
- Preventing revenue from the sale of marijuana from going to criminal enterprises, gangs, and cartels;
- Preventing the diversion of marijuana from states where it is legal under state law in some form to other states;
- Preventing state-authorized marijuana activity from being used as a cover or pretext for the trafficking of other illegal drugs or other illegal activity;



Memorandum for All United States Attorneys  
Subject: Guidance Regarding Marijuana Enforcement

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- Preventing violence and the use of firearms in the cultivation and distribution of marijuana;
- Preventing drugged driving and the exacerbation of other adverse public health consequences associated with marijuana use;
- Preventing the growing of marijuana on public lands and the attendant public safety and environmental dangers posed by marijuana production on public lands; and
- Preventing marijuana possession or use on federal property.

These priorities will continue to guide the Department's enforcement of the CSA against marijuana-related conduct. Thus, this memorandum serves as guidance to Department attorneys and law enforcement to focus their enforcement resources and efforts, including prosecution, on persons or organizations whose conduct interferes with any one or more of these priorities, regardless of state law.<sup>1</sup>

Outside of these enforcement priorities, the federal government has traditionally relied on states and local law enforcement agencies to address marijuana activity through enforcement of their own narcotics laws. For example, the Department of Justice has not historically devoted resources to prosecuting individuals whose conduct is limited to possession of small amounts of marijuana for personal use on private property. Instead, the Department has left such lower-level or localized activity to state and local authorities and has stepped in to enforce the CSA only when the use, possession, cultivation, or distribution of marijuana has threatened to cause one of the harms identified above.

The enactment of state laws that endeavor to authorize marijuana production, distribution, and possession by establishing a regulatory scheme for these purposes affects this traditional joint federal-state approach to narcotics enforcement. The Department's guidance in this memorandum rests on its expectation that states and local governments that have enacted laws authorizing marijuana-related conduct will implement strong and effective regulatory and enforcement systems that will address the threat those state laws could pose to public safety, public health, and other law enforcement interests. A system adequate to that task must not only contain robust controls and procedures on paper; it must also be effective in practice. Jurisdictions that have implemented systems that provide for regulation of marijuana activity

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<sup>1</sup> These enforcement priorities are listed in general terms; each encompasses a variety of conduct that may merit civil or criminal enforcement of the CSA. By way of example only, the Department's interest in preventing the distribution of marijuana to minors would call for enforcement not just when an individual or entity sells or transfers marijuana to a minor, but also when marijuana trafficking takes place near an area associated with minors; when marijuana or marijuana-infused products are marketed in a manner to appeal to minors; or when marijuana is being diverted, directly or indirectly, and purposefully or otherwise, to minors.



Memorandum for All United States Attorneys  
Subject: Guidance Regarding Marijuana Enforcement

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must provide the necessary resources and demonstrate the willingness to enforce their laws and regulations in a manner that ensures they do not undermine federal enforcement priorities.

In jurisdictions that have enacted laws legalizing marijuana in some form and that have also implemented strong and effective regulatory and enforcement systems to control the cultivation, distribution, sale, and possession of marijuana, conduct in compliance with those laws and regulations is less likely to threaten the federal priorities set forth above. Indeed, a robust system may affirmatively address those priorities by, for example, implementing effective measures to prevent diversion of marijuana outside of the regulated system and to other states, prohibiting access to marijuana by minors, and replacing an illicit marijuana trade that funds criminal enterprises with a tightly regulated market in which revenues are tracked and accounted for. In those circumstances, consistent with the traditional allocation of federal-state efforts in this area, enforcement of state law by state and local law enforcement and regulatory bodies should remain the primary means of addressing marijuana-related activity. If state enforcement efforts are not sufficiently robust to protect against the harms set forth above, the federal government may seek to challenge the regulatory structure itself in addition to continuing to bring individual enforcement actions, including criminal prosecutions, focused on those harms.

The Department's previous memoranda specifically addressed the exercise of prosecutorial discretion in states with laws authorizing marijuana cultivation and distribution for medical use. In those contexts, the Department advised that it likely was not an efficient use of federal resources to focus enforcement efforts on seriously ill individuals, or on their individual caregivers. In doing so, the previous guidance drew a distinction between the seriously ill and their caregivers, on the one hand, and large-scale, for-profit commercial enterprises, on the other, and advised that the latter continued to be appropriate targets for federal enforcement and prosecution. In drawing this distinction, the Department relied on the common-sense judgment that the size of a marijuana operation was a reasonable proxy for assessing whether marijuana trafficking implicates the federal enforcement priorities set forth above.

As explained above, however, both the existence of a strong and effective state regulatory system, and an operation's compliance with such a system, may allay the threat that an operation's size poses to federal enforcement interests. Accordingly, in exercising prosecutorial discretion, prosecutors should not consider the size or commercial nature of a marijuana operation alone as a proxy for assessing whether marijuana trafficking implicates the Department's enforcement priorities listed above. Rather, prosecutors should continue to review marijuana cases on a case-by-case basis and weigh all available information and evidence, including, but not limited to, whether the operation is demonstrably in compliance with a strong and effective state regulatory system. A marijuana operation's large scale or for-profit nature may be a relevant consideration for assessing the extent to which it undermines a particular federal enforcement priority. The primary question in all cases – and in all jurisdictions – should be whether the conduct at issue implicates one or more of the enforcement priorities listed above.



Memorandum for All United States Attorneys  
Subject: Guidance Regarding Marijuana Enforcement

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As with the Department's previous statements on this subject, this memorandum is intended solely as a guide to the exercise of investigative and prosecutorial discretion. This memorandum does not alter in any way the Department's authority to enforce federal law, including federal laws relating to marijuana, regardless of state law. Neither the guidance herein nor any state or local law provides a legal defense to a violation of federal law, including any civil or criminal violation of the CSA. Even in jurisdictions with strong and effective regulatory systems, evidence that particular conduct threatens federal priorities will subject that person or entity to federal enforcement action, based on the circumstances. This memorandum is not intended to, does not, and may not be relied upon to create any rights, substantive or procedural, enforceable at law by any party in any matter civil or criminal. It applies prospectively to the exercise of prosecutorial discretion in future cases and does not provide defendants or subjects of enforcement action with a basis for reconsideration of any pending civil action or criminal prosecution. Finally, nothing herein precludes investigation or prosecution, even in the absence of any one of the factors listed above, in particular circumstances where investigation and prosecution otherwise serves an important federal interest.

cc: Mythili Raman  
Acting Assistant Attorney General, Criminal Division

Loretta E. Lynch  
United States Attorney  
Eastern District of New York  
Chair, Attorney General's Advisory Committee

Michele M. Leonhart  
Administrator  
Drug Enforcement Administration

H. Marshall Jarrett  
Director  
Executive Office for United States Attorneys

Ronald T. Hosko  
Assistant Director  
Criminal Investigative Division  
Federal Bureau of Investigation



## APPENDIX C

### MARIJUANA ARRESTS

Appendix C, Table 1. Marijuana arrests, by county, 2012-2019

| County      | 2012  | 2013  | 2014 | 2015  | 2016 | 2017 | 2018 | 2019 |
|-------------|-------|-------|------|-------|------|------|------|------|
| Adams       | 2,415 | 1,026 | 878  | 812   | 747  | 841  | 759  | 469  |
| Alamosa     | 2     | 6     | 12   | 22    | 15   | 23   | 28   | 22   |
| Arapahoe    | 1,478 | 702   | 819  | 711   | 692  | 592  | 517  | 324  |
| Archuleta   | 17    | 3     | 6    | 19    | 12   | 6    | 12   | 14   |
| Baca        | 17    | 8     | 1    | 1     | 2    | -    | -    | 2    |
| Bent        | -     | 1     | -    | 1     | -    | -    | -    | 1    |
| Boulder     | 724   | 439   | 364  | 410   | 481  | 695  | 614  | 392  |
| Broomfield  | 299   | 133   | 132  | 93    | 121  | 116  | 122  | 116  |
| Chaffee     | 47    | 14    | 17   | 13    | 20   | 10   | 17   | 2    |
| Cheyenne    | 2     | 1     | -    | -     | -    | -    | -    | -    |
| Clear Creek | 45    | 8     | 7    | 10    | 2    | 1    | 5    | 2    |
| Conejos     | 2     | -     | -    | -     | -    | -    | -    | -    |
| Costilla    | -     | -     | 1    | -     | -    | -    | -    | -    |
| Crowley     | -     | -     | -    | 1     | -    | 4    | 7    | 5    |
| Custer      | 1     | 1     | 3    | 4     | 2    | 2    | 6    | 11   |
| Delta       | 16    | 16    | 9    | 3     | 24   | 22   | 32   | 24   |
| Denver      | 186   | 472   | 852  | 1,139 | 624  | 284  | 334  | 160  |
| Dolores     | -     | 1     | 1    | -     | -    | 4    | 2    | 1    |
| Douglas     | 537   | 333   | 218  | 258   | 273  | 414  | 300  | 286  |
| Eagle       | 290   | 138   | 100  | 124   | 100  | 90   | 80   | 45   |
| El Paso     | 868   | 539   | 611  | 509   | 562  | 479  | 542  | 459  |
| Elbert      | 17    | 19    | 17   | 7     | 4    | 13   | 7    | 11   |
| Fremont     | 45    | 12    | 5    | 12    | 9    | 28   | 15   | 12   |
| Garfield    | 168   | 50    | 44   | 83    | 76   | 128  | 131  | 128  |
| Gilpin      | 100   | 7     | 4    | 6     | 3    | 7    | 15   | 13   |
| Grand       | 14    | 2     | 4    | -     | 3    | -    | -    | -    |
| Gunnison    | 37    | 29    | 32   | 49    | 33   | 44   | 54   | 37   |
| Hinsdale    | -     | -     | -    | -     | 2    | -    | -    | 1    |
| Huerfano    | 13    | -     | 4    | 6     | 9    | 1    | 4    | 7    |
| Jackson     | -     | -     | -    | -     | -    | -    | -    | -    |
| Jefferson   | 1,554 | 805   | 970  | 897   | 886  | 903  | 683  | 370  |
| Kiowa       | 1     | 3     | -    | -     | -    | -    | -    | -    |
| Kit Carson  | 19    | 14    | 4    | 17    | 13   | 16   | 4    | 4    |
| La Plata    | 55    | 53    | 81   | 65    | 69   | 80   | 59   | 11   |
| Lake        | 27    | 3     | 3    | -     | 2    | 1    | -    | 1    |
| Larimer     | 927   | 479   | 463  | 432   | 529  | 471  | 467  | 476  |
| Las Animas  | 7     | 5     | 1    | 1     | -    | 4    | 12   | 6    |
| Lincoln     | 1     | -     | -    | 1     | 1    | 7    | 2    | -    |
| Logan       | 41    | 3     | 29   | 34    | 17   | 12   | 31   | 8    |
| Mesa        | 664   | 433   | 456  | 411   | 347  | 460  | 333  | 264  |
| Mineral     | -     | -     | -    | -     | -    | -    | -    | -    |
| Moffat      | 104   | 22    | 20   | 29    | 47   | 30   | 19   | 10   |
| Montezuma   | 74    | 6     | 14   | 6     | 10   | 10   | 15   | 28   |
| Montrose    | 134   | 51    | 46   | 39    | 33   | 28   | 36   | 30   |
| Morgan      | 52    | 19    | 34   | 12    | 18   | 24   | 19   | 10   |
| Otero       | 22    | 3     | 6    | 14    | 5    | 8    | 3    | 5    |
| Ouray       | -     | -     | 4    | -     | -    | -    | -    | -    |
| Park        | 10    | 1     | 4    | 2     | 3    | -    | 5    | 2    |
| Phillips    | 2     | 1     | -    | 1     | 2    | 1    | 6    | 3    |
| Pitkin      | 7     | -     | 10   | 7     | 4    | 3    | 1    | 1    |
| Prowers     | 91    | 34    | 38   | 3     | 7    | 2    | 19   | 9    |
| Pueblo      | 27    | 26    | 26   | 22    | 47   | 38   | 40   | 49   |



|                           |               |              |              |              |              |              |              |              |
|---------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Rio Blanco</b>         | 26            | 4            | 18           | 11           | 3            | 2            | 1            | 1            |
| <b>Rio Grande</b>         | 28            | 5            | 2            | 11           | 6            | 8            | 19           | 12           |
| <b>Routt</b>              | 92            | 36           | 61           | 47           | 47           | 46           | 42           | 36           |
| <b>Saguache</b>           | 11            | -            | 2            | 2            | -            | 11           | -            | -            |
| <b>San Juan</b>           | -             | 1            | -            | -            | -            | -            | -            | -            |
| <b>San Miguel</b>         | -             | -            | -            | -            | 4            | -            | 2            | 3            |
| <b>Sedgwick</b>           | 1             | 3            | 1            | -            | -            | -            | -            | -            |
| <b>Summit</b>             | 65            | 5            | 6            | 22           | 20           | 6            | 10           | 1            |
| <b>Teller</b>             | 56            | 47           | 34           | 25           | 32           | 25           | 63           | 32           |
| <b>Washington</b>         | 20            | 2            | 1            | 1            | 2            | -            | -            | -            |
| <b>Weld</b>               | 505           | 338          | 330          | 271          | 270          | 230          | 267          | 215          |
| <b>Yuma</b>               | 2             | 4            | -            | -            | -            | -            | 1            | 6            |
| <b>Unspecified county</b> | 1,260         | 271          | 323          | 322          | 262          | 253          | 208          | 153          |
| <b>Total</b>              | <b>13,225</b> | <b>6,637</b> | <b>7,128</b> | <b>6,998</b> | <b>6,502</b> | <b>6,483</b> | <b>5,970</b> | <b>4,290</b> |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System, analyzed by the Division of Criminal Justice.

Note: Since county is determined based on the law enforcement agency's location there are some statewide agencies, such as the Colorado State Patrol, that cannot be assigned to a specific county.



**Appendix C, Table 2. Marijuana arrest rate (per 100,000 county population), by county, 2012-2019**

| County      | 2012  | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|-------------|-------|------|------|------|------|------|------|------|
| Adams       | 626   | 260  | 216  | 195  | 176  | 195  | 173  | 105  |
| Alamosa     | 15    | 45   | 90   | 163  | 110  | 167  | 201  | 157  |
| Arapahoe    | 288   | 134  | 153  | 130  | 125  | 105  | 91   | 56   |
| Archuleta   | 156   | 27   | 54   | 170  | 104  | 50   | 97   | 110  |
| Baca        | 516   | 248  | 32   | 32   | 65   | -    | -    | 64   |
| Bent        | -     | 19   | -    | 19   | -    | -    | -    | 19   |
| Boulder     | 267   | 159  | 130  | 143  | 166  | 238  | 208  | 132  |
| Broomfield  | 589   | 255  | 246  | 164  | 207  | 192  | 197  | 184  |
| Chaffee     | 284   | 84   | 101  | 77   | 115  | 56   | 93   | 11   |
| Cheyenne    | 124   | 62   | -    | -    | -    | -    | -    | -    |
| Clear Creek | 547   | 98   | 85   | 119  | 23   | 11   | 57   | 23   |
| Conejos     | 29    | -    | -    | -    | -    | -    | -    | -    |
| Costilla    | -     | -    | 31   | -    | -    | -    | -    | -    |
| Crowley     | -     | -    | -    | 19   | -    | 74   | 127  | 89   |
| Custer      | 25    | 25   | 74   | 97   | 47   | 44   | 131  | 234  |
| Delta       | 59    | 59   | 34   | 11   | 88   | 80   | 115  | 85   |
| Denver      | 34    | 83   | 146  | 190  | 102  | 46   | 53   | 25   |
| Dolores     | -     | 56   | 58   | -    | -    | 218  | 108  | 54   |
| Douglas     | 212   | 127  | 80   | 92   | 95   | 139  | 98   | 91   |
| Eagle       | 643   | 301  | 215  | 263  | 208  | 186  | 164  | 92   |
| El Paso     | 156   | 95   | 107  | 87   | 94   | 79   | 87   | 73   |
| Elbert      | 82    | 90   | 78   | 31   | 18   | 56   | 30   | 46   |
| Fremont     | 105   | 28   | 12   | 28   | 21   | 64   | 34   | 28   |
| Garfield    | 348   | 103  | 90   | 167  | 150  | 250  | 252  | 244  |
| Gilpin      | 2,050 | 141  | 77   | 115  | 56   | 128  | 270  | 228  |
| Grand       | 110   | 16   | 31   | -    | 22   | -    | -    | -    |
| Gunnison    | 268   | 207  | 225  | 338  | 223  | 290  | 349  | 234  |
| Hinsdale    | -     | -    | -    | -    | 282  | -    | -    | 132  |
| Huerfano    | 218   | -    | 68   | 103  | 150  | 17   | 64   | 112  |
| Jackson     | -     | -    | -    | -    | -    | -    | -    | -    |
| Jefferson   | 321   | 164  | 195  | 178  | 174  | 176  | 132  | 71   |
| Kiowa       | 79    | 241  | -    | -    | -    | -    | -    | -    |
| Kit Carson  | 268   | 194  | 57   | 237  | 194  | 256  | 64   | 64   |
| La Plata    | 118   | 112  | 168  | 133  | 139  | 160  | 116  | 22   |
| Lake        | 437   | 48   | 48   | -    | 30   | 15   | -    | 14   |
| Larimer     | 338   | 171  | 162  | 146  | 176  | 154  | 150  | 150  |
| Las Animas  | 53    | 39   | 8    | 8    | -    | 31   | 92   | 46   |
| Lincoln     | 21    | -    | -    | 20   | 20   | 143  | 40   | -    |
| Logan       | 209   | 15   | 147  | 172  | 86   | 61   | 158  | 41   |
| Mesa        | 516   | 337  | 354  | 317  | 264  | 345  | 246  | 193  |
| Mineral     | -     | -    | -    | -    | -    | -    | -    | -    |
| Moffat      | 926   | 196  | 181  | 262  | 416  | 266  | 167  | 87   |
| Montezuma   | 332   | 27   | 63   | 27   | 44   | 44   | 65   | 121  |
| Montrose    | 376   | 143  | 129  | 109  | 91   | 76   | 96   | 79   |
| Morgan      | 217   | 79   | 143  | 50   | 75   | 100  | 78   | 40   |
| Otero       | 137   | 19   | 38   | 88   | 32   | 50   | 19   | 31   |
| Ouray       | -     | -    | 96   | -    | -    | -    | -    | -    |
| Park        | 69    | 7    | 27   | 13   | 19   | -    | 29   | 12   |
| Phillips    | 52    | 26   | -    | 27   | 54   | 27   | 161  | 80   |
| Pitkin      | 44    | -    | 61   | 42   | 24   | 18   | 6    | 6    |
| Prowers     | 865   | 325  | 369  | 29   | 69   | 20   | 184  | 86   |



|            |     |     |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Pueblo     | 19  | 19  | 18  | 15  | 32  | 26  | 27  | 33  |
| Rio Blanco | 447 | 69  | 317 | 197 | 54  | 36  | 18  | 18  |
| Rio Grande | 274 | 50  | 20  | 112 | 61  | 81  | 194 | 122 |
| Routt      | 445 | 171 | 284 | 216 | 213 | 204 | 184 | 156 |
| Saguache   | 200 | -   | 37  | 37  | -   | 188 | -   | -   |
| San Juan   | -   | 158 | -   | -   | -   | -   | -   | -   |
| San Miguel | -   | -   | -   | -   | 56  | -   | 27  | 41  |
| Sedgwick   | 47  | 144 | 48  | -   | -   | -   | -   | -   |
| Summit     | 255 | 19  | 22  | 80  | 71  | 21  | 35  | 3   |
| Teller     | 265 | 222 | 160 | 118 | 146 | 111 | 275 | 138 |
| Washington | 497 | 49  | 25  | 24  | 48  | -   | -   | -   |
| Weld       | 226 | 148 | 141 | 111 | 107 | 88  | 99  | 77  |
| Yuma       | 23  | 47  | -   | -   | -   | -   | 12  | 70  |
| Total      | 293 | 145 | 153 | 147 | 134 | 131 | 119 | 84  |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System; Colorado State Demography Office. Analyzed by the Division of Criminal Justice.

Note: There is no rate for 'unspecified county' because it is not possible to assign a population value.

**Appendix C, Table 3. Marijuana arrests, by county and drug crime type, 2012-2019**

| County    | Type        | 2012  | 2013  | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|-----------|-------------|-------|-------|------|------|------|------|------|------|
| Adams     | Sell        | 42    | 19    | 17   | 8    | 8    | 9    | 8    | 2    |
|           | Smuggle     | -     | -     | -    | -    | -    | -    | 8    | 2    |
|           | Possession  | 2,079 | 866   | 725  | 656  | 610  | 627  | 468  | 277  |
|           | Producing   | 39    | 15    | 6    | 8    | 21   | 21   | 20   | 13   |
|           | Unspecified | 255   | 126   | 130  | 140  | 108  | 184  | 255  | 175  |
|           | Total       | 2,415 | 1,026 | 878  | 812  | 747  | 841  | 759  | 469  |
| Alamosa   | Sell        | -     | -     | -    | -    | -    | -    | 2    | -    |
|           | Possession  | 2     | 6     | 9    | 21   | 4    | 12   | 18   | 18   |
|           | Unspecified | -     | -     | 3    | 1    | 11   | 11   | 8    | 4    |
|           | Total       | 2     | 6     | 12   | 22   | 15   | 23   | 28   | 22   |
| Arapahoe  | Sell        | 24    | 17    | 19   | 22   | 13   | 7    | 14   | 5    |
|           | Smuggle     | -     | -     | -    | -    | 3    | -    | 1    | -    |
|           | Possession  | 1,375 | 609   | 669  | 571  | 537  | 450  | 446  | 261  |
|           | Producing   | 65    | 67    | 122  | 104  | 128  | 121  | 42   | 47   |
|           | Unspecified | 14    | 9     | 9    | 14   | 11   | 14   | 14   | 11   |
|           | Total       | 1,478 | 702   | 819  | 711  | 692  | 592  | 517  | 324  |
| Archuleta | Sell        | -     | -     | -    | -    | 2    | -    | -    | -    |
|           | Possession  | 17    | 3     | 6    | 18   | 8    | 2    | 11   | 8    |
|           | Producing   | -     | -     | -    | -    | -    | -    | -    | 3    |
|           | Unspecified | -     | -     | -    | 1    | 2    | 4    | 1    | 3    |
|           | Total       | 17    | 3     | 6    | 19   | 12   | 6    | 12   | 14   |
| Baca      | Sell        | 2     | -     | 1    | -    | 2    | -    | -    | 2    |
|           | Possession  | 15    | 7     | -    | 1    | -    | -    | -    | -    |
|           | Unspecified | -     | 1     | -    | -    | -    | -    | -    | -    |
|           | Total       | 17    | 8     | 1    | 1    | 2    | -    | -    | 2    |



**Appendix C, Table 3. Marijuana arrests, by county and drug crime type, 2012-2019**

| County      | Type        | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|-------------|-------------|------|------|------|------|------|------|------|------|
| Bent        | Possession  |      | 1    |      | 1    |      |      |      | 1    |
|             | Total       |      | 1    |      | 1    |      |      |      | 1    |
| Boulder     | Sell        | 8    | 1    | 17   | 5    | 11   | 4    | 10   | 6    |
|             | Smuggle     | -    | -    | -    | -    | -    | 1    | -    | -    |
|             | Possession  | 668  | 379  | 303  | 347  | 409  | 610  | 556  | 355  |
|             | Producing   | 1    | 1    | -    | 7    | 2    | 2    | 8    | 2    |
|             | Unspecified | 47   | 58   | 44   | 51   | 59   | 78   | 40   | 29   |
|             | Total       | 724  | 439  | 364  | 410  | 481  | 695  | 614  | 392  |
| Broomfield  | Sell        | 7    | 8    | -    | 2    | 1    | -    | -    | 2    |
|             | Possession  | 290  | 123  | 130  | 75   | 108  | 108  | 108  | 99   |
|             | Producing   | -    | -    | 2    | -    | 1    | -    | -    | -    |
|             | Unspecified | 2    | 2    | -    | 16   | 11   | 8    | 14   | 15   |
|             | Total       | 299  | 133  | 132  | 93   | 121  | 116  | 122  | 116  |
| Chaffee     | Sell        | 2    | -    | -    | 1    | -    | 2    | -    | -    |
|             | Smuggle     | -    | -    | -    | -    | -    | -    | 1    | -    |
|             | Possession  | 45   | 14   | 17   | 9    | 18   | 8    | 16   | 2    |
|             | Unspecified | -    | -    | -    | 3    | 2    | -    | -    | -    |
|             | Total       | 47   | 14   | 17   | 13   | 20   | 10   | 17   | 2    |
| Cheyenne    | Possession  | 2    | 1    |      |      |      |      |      |      |
|             | Total       | 2    | 1    |      |      |      |      |      |      |
| Clear Creek | Sell        | 1    | -    | -    | -    | -    | -    | -    | -    |
|             | Possession  | 40   | 7    | 6    | 10   | 2    | 1    | 4    | 2    |
|             | Producing   | 1    | -    | -    | -    | -    | -    | -    | -    |
|             | Unspecified | 3    | 1    | 1    | -    | -    | -    | 1    | -    |
|             | Total       | 45   | 8    | 7    | 10   | 2    | 1    | 5    | 2    |
| Conejos     | Possession  | 2    |      |      |      |      |      |      |      |
|             | Total       | 2    |      |      |      |      |      |      |      |
| Costilla    | Sell        |      |      | 1    |      |      |      |      |      |
|             | Total       |      |      | 1    |      |      |      |      |      |
| Crowley     | Sell        |      |      |      | -    |      | 1    | 1    | -    |
|             | Possession  |      |      |      | 1    |      | 2    | 1    | 2    |
|             | Producing   |      |      |      | -    |      | -    | 5    | 3    |
|             | Unspecified |      |      |      | -    |      | 1    | -    | -    |
|             | Total       |      |      |      | 1    |      | 4    | 7    | 5    |
| Custer      | Possession  | 1    | 1    | -    | -    | -    | 1    | 1    | 2    |
|             | Producing   | -    | -    | 2    | 1    | 1    | -    | -    | -    |
|             | Unspecified | -    | -    | 1    | 3    | 1    | 1    | 5    | 9    |
|             | Total       | 1    | 1    | 3    | 4    | 2    | 2    | 6    | 11   |
| Delta       | Possession  | 15   | 12   | 8    | 2    | 22   | 15   | 18   | 13   |
|             | Producing   | -    | -    | 1    | -    | -    | -    | 8    | 6    |
|             | Unspecified | 1    | 4    | -    | 1    | 2    | 7    | 6    | 5    |
|             | Total       | 16   | 16   | 9    | 3    | 24   | 22   | 32   | 24   |



**Appendix C, Table 3. Marijuana arrests, by county and drug crime type, 2012-2019**

| County   | Type        | 2012 | 2013 | 2014 | 2015  | 2016 | 2017 | 2018 | 2019 |
|----------|-------------|------|------|------|-------|------|------|------|------|
| Denver   | Sell        | 93   | 71   | 71   | 58    | 74   | 98   | 76   | 46   |
|          | Possession  | 58   | 371  | 750  | 1,049 | 496  | 115  | 176  | 64   |
|          | Producing   | 15   | 6    | 14   | 16    | 42   | 56   | 70   | 43   |
|          | Unspecified | 20   | 24   | 17   | 16    | 12   | 15   | 12   | 7    |
|          | Total       | 186  | 472  | 852  | 1,139 | 624  | 284  | 334  | 160  |
| Dolores  | Sell        |      | -    | -    |       |      | 1    | -    | -    |
|          | Possession  |      | 1    | 1    |       |      | -    | -    | -    |
|          | Producing   |      | -    | -    |       |      | -    | 2    | 1    |
|          | Unspecified |      | -    | -    |       |      | 3    | -    | -    |
|          | Total       |      | 1    | 1    |       |      | 4    | 2    | 1    |
| Douglas  | Sell        | 4    | 1    | 2    | 1     | 6    | 1    | 2    | 3    |
|          | Possession  | 524  | 274  | 214  | 256   | 257  | 381  | 280  | 263  |
|          | Producing   | -    | -    | -    | -     | 2    | 9    | 4    | -    |
|          | Unspecified | 9    | 58   | 2    | 1     | 8    | 23   | 14   | 20   |
|          | Total       | 537  | 333  | 218  | 258   | 273  | 414  | 300  | 286  |
| Eagle    | Sell        | 7    | 3    | -    | 1     | 1    | 1    | 1    | 1    |
|          | Possession  | 243  | 75   | 63   | 103   | 80   | 83   | 74   | 42   |
|          | Producing   | 2    | 1    | -    | 1     | -    | -    | -    | -    |
|          | Unspecified | 38   | 59   | 37   | 19    | 19   | 6    | 5    | 2    |
|          | Total       | 290  | 138  | 100  | 124   | 100  | 90   | 80   | 45   |
| El Paso  | Sell        | 32   | 23   | 28   | 24    | 32   | 29   | 49   | 32   |
|          | Smuggle     | 4    | 1    | -    | 1     | -    | -    | -    | -    |
|          | Possession  | 670  | 427  | 493  | 455   | 499  | 411  | 455  | 396  |
|          | Producing   | 20   | 4    | 2    | 3     | 3    | 7    | 37   | 25   |
|          | Unspecified | 142  | 84   | 88   | 26    | 28   | 32   | 1    | 6    |
|          | Total       | 868  | 539  | 611  | 509   | 562  | 479  | 542  | 459  |
| Elbert   | Sell        | -    | -    | 1    | -     | -    | 2    | -    | 1    |
|          | Possession  | 17   | 19   | 16   | 6     | 4    | 10   | 7    | 7    |
|          | Producing   | -    | -    | -    | 1     | -    | 1    | -    | 2    |
|          | Unspecified | -    | -    | -    | -     | -    | -    | -    | 1    |
|          | Total       | 17   | 19   | 17   | 7     | 4    | 13   | 7    | 11   |
| Fremont  | Sell        | 1    | -    | -    | 2     | -    | -    | -    | -    |
|          | Possession  | 31   | 11   | 4    | 3     | 1    | -    | -    | 1    |
|          | Producing   | -    | -    | 1    | 1     | 2    | 1    | -    | -    |
|          | Unspecified | 13   | 1    | -    | 6     | 6    | 27   | 15   | 11   |
|          | Total       | 45   | 12   | 5    | 12    | 9    | 28   | 15   | 12   |
| Garfield | Sell        | 1    | 2    | 3    | -     | 1    | -    | 1    | -    |
|          | Possession  | 154  | 42   | 31   | 75    | 53   | 82   | 95   | 67   |
|          | Unspecified | 13   | 6    | 10   | 8     | 22   | 46   | 35   | 61   |
|          | Total       | 168  | 50   | 44   | 83    | 76   | 128  | 131  | 128  |



**Appendix C, Table 3. Marijuana arrests, by county and drug crime type, 2012-2019**

| County     | Type        | 2012  | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|------------|-------------|-------|------|------|------|------|------|------|------|
| Gilpin     | Smuggle     | 1     | -    | -    | -    | -    | -    | -    | -    |
|            | Possession  | 95    | 5    | 4    | 5    | 2    | 5    | 10   | 12   |
|            | Producing   | 2     | 2    | -    | 1    | -    | -    | -    | -    |
|            | Unspecified | 2     | -    | -    | -    | 1    | 2    | 5    | 1    |
|            | Total       | 100   | 7    | 4    | 6    | 3    | 7    | 15   | 13   |
| Grand      | Sell        | 1     | -    | -    | -    | -    | -    | -    | -    |
|            | Possession  | 13    | 2    | 4    | -    | 2    | -    | -    | -    |
|            | Unspecified | -     | -    | -    | -    | 1    | -    | -    | -    |
|            | Total       | 14    | 2    | 4    | -    | 3    | -    | -    | -    |
| Gunnison   | Sell        | -     | -    | 2    | -    | -    | 4    | -    | 1    |
|            | Possession  | 37    | 24   | 26   | 47   | 29   | 31   | 47   | 34   |
|            | Producing   | -     | 2    | 1    | 2    | -    | 1    | 1    | -    |
|            | Unspecified | -     | 3    | 3    | -    | 4    | 8    | 6    | 2    |
|            | Total       | 37    | 29   | 32   | 49   | 33   | 44   | 54   | 37   |
| Hinsdale   | Possession  | -     | -    | -    | -    | 2    | -    | -    | 1    |
|            | Total       | -     | -    | -    | -    | 2    | -    | -    | 1    |
| Huerfano   | Possession  | 13    | -    | 2    | 5    | 3    | -    | 4    | 6    |
|            | Producing   | -     | -    | 2    | 1    | 6    | 1    | -    | -    |
|            | Unspecified | -     | -    | -    | -    | -    | -    | -    | 1    |
|            | Total       | 13    | -    | 4    | 6    | 9    | 1    | 4    | 7    |
| Jefferson  | Sell        | 9     | 7    | 11   | 7    | 8    | 8    | 6    | 3    |
|            | Possession  | 1,330 | 660  | 856  | 802  | 817  | 827  | 603  | 301  |
|            | Producing   | 6     | 4    | 9    | 15   | 11   | 8    | 10   | -    |
|            | Unspecified | 209   | 134  | 94   | 73   | 50   | 60   | 64   | 66   |
|            | Total       | 1,554 | 805  | 970  | 897  | 886  | 903  | 683  | 370  |
| Kiowa      | Possession  | 1     | 3    | -    | -    | -    | -    | -    | -    |
|            | Total       | 1     | 3    | -    | -    | -    | -    | -    | -    |
| Kit Carson | Sell        | 1     | 3    | -    | -    | 2    | 1    | 1    | -    |
|            | Possession  | 18    | 11   | 4    | 16   | 10   | 11   | 3    | 1    |
|            | Producing   | -     | -    | -    | -    | -    | 3    | -    | 3    |
|            | Unspecified | -     | -    | -    | 1    | 1    | 1    | -    | -    |
|            | Total       | 19    | 14   | 4    | 17   | 13   | 16   | 4    | 4    |
| La Plata   | Possession  | 54    | 53   | 81   | 40   | 54   | 41   | 27   | 7    |
|            | Unspecified | 1     | -    | -    | 25   | 15   | 39   | 32   | 4    |
|            | Total       | 55    | 53   | 81   | 65   | 69   | 80   | 59   | 11   |
| Lake       | Sell        | 1     | 1    | -    | -    | -    | -    | -    | -    |
|            | Possession  | 23    | 2    | 1    | -    | 1    | 1    | -    | 1    |
|            | Producing   | 3     | -    | 1    | -    | -    | -    | -    | -    |
|            | Unspecified | -     | -    | 1    | -    | 1    | -    | -    | -    |
|            | Total       | 27    | 3    | 3    | -    | 2    | 1    | -    | 1    |



**Appendix C, Table 3. Marijuana arrests, by county and drug crime type, 2012-2019**

| County     | Type        | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|------------|-------------|------|------|------|------|------|------|------|------|
| Larimer    | Sell        | 10   | 11   | 15   | 9    | 17   | 7    | 6    | 4    |
|            | Smuggle     | -    | -    | -    | -    | 1    | -    | -    | -    |
|            | Possession  | 521  | 282  | 281  | 302  | 383  | 355  | 354  | 376  |
|            | Producing   | 5    | 1    | 5    | 7    | 12   | 13   | 11   | 5    |
|            | Unspecified | 391  | 185  | 162  | 114  | 116  | 96   | 96   | 91   |
|            | Total       | 927  | 479  | 463  | 432  | 529  | 471  | 467  | 476  |
| Las Animas | Sell        | -    | 3    | -    | -    | -    | -    | -    | -    |
|            | Possession  | 7    | 2    | 1    | -    | -    | 4    | 12   | 6    |
|            | Unspecified | -    | -    | -    | 1    | -    | -    | -    | -    |
|            | Total       | 7    | 5    | 1    | 1    | -    | 4    | 12   | 6    |
| Lincoln    | Smuggle     | -    | -    | -    | 1    | 1    | -    | -    | -    |
|            | Possession  | 1    | -    | -    | -    | -    | -    | 1    | -    |
|            | Producing   | -    | -    | -    | -    | -    | 7    | -    | -    |
|            | Unspecified | -    | -    | -    | -    | -    | -    | 1    | -    |
|            | Total       | 1    | -    | -    | 1    | 1    | 7    | 2    | -    |
| Logan      | Sell        | 1    | 1    | -    | -    | -    | -    | 4    | 2    |
|            | Possession  | 39   | 2    | 28   | 34   | 17   | 9    | 25   | 5    |
|            | Producing   | -    | -    | -    | -    | -    | 1    | -    | -    |
|            | Unspecified | 1    | -    | 1    | -    | -    | 2    | 2    | 1    |
|            | Total       | 41   | 3    | 29   | 34   | 17   | 12   | 31   | 8    |
| Mesa       | Sell        | 14   | 20   | 17   | 11   | 20   | 42   | 22   | 16   |
|            | Smuggle     | -    | 1    | -    | -    | -    | -    | -    | 1    |
|            | Possession  | 577  | 327  | 350  | 292  | 247  | 257  | 192  | 118  |
|            | Producing   | 3    | 4    | 3    | 10   | 11   | 11   | 10   | 3    |
|            | Unspecified | 70   | 81   | 86   | 98   | 69   | 150  | 109  | 126  |
|            | Total       | 664  | 433  | 456  | 411  | 347  | 460  | 333  | 264  |
| Moffat     | Sell        | 3    | -    | 1    | -    | 2    | 1    | -    | -    |
|            | Possession  | 95   | 22   | 19   | 29   | 45   | 29   | 19   | 9    |
|            | Producing   | 4    | -    | -    | -    | -    | -    | -    | -    |
|            | Unspecified | 2    | -    | -    | -    | -    | -    | -    | 1    |
|            | Total       | 104  | 22   | 20   | 29   | 47   | 30   | 19   | 10   |
| Montezuma  | Sell        | -    | -    | 1    | -    | -    | 1    | -    | 4    |
|            | Possession  | 60   | 6    | 11   | 6    | 10   | 7    | 9    | 12   |
|            | Producing   | -    | -    | -    | -    | -    | -    | -    | 1    |
|            | Unspecified | 14   | -    | 2    | -    | -    | 2    | 6    | 11   |
|            | Total       | 74   | 6    | 14   | 6    | 10   | 10   | 15   | 28   |
| Montrose   | Sell        | 1    | 1    | -    | -    | 1    | -    | -    | -    |
|            | Possession  | 131  | 49   | 45   | 37   | 31   | 28   | 31   | 30   |
|            | Producing   | 1    | -    | -    | 1    | -    | -    | 3    | -    |
|            | Unspecified | 1    | 1    | 1    | 1    | 1    | -    | 2    | -    |
|            | Total       | 134  | 51   | 46   | 39   | 33   | 28   | 36   | 30   |



**Appendix C, Table 3. Marijuana arrests, by county and drug crime type, 2012-2019**

| County     | Type        | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|------------|-------------|------|------|------|------|------|------|------|------|
| Morgan     | Sell        | 1    | 1    | -    | -    | -    | 1    | -    | -    |
|            | Possession  | 50   | 18   | 32   | 9    | 17   | 22   | 18   | 10   |
|            | Producing   | -    | -    | -    | -    | 1    | -    | -    | -    |
|            | Unspecified | 1    | -    | 2    | 3    | -    | 1    | 1    | -    |
|            | Total       | 52   | 19   | 34   | 12   | 18   | 24   | 19   | 10   |
| Otero      | Sell        | -    | -    | 1    | -    | -    | -    | -    | -    |
|            | Smuggle     | -    | -    | -    | -    | -    | 1    | -    | 1    |
|            | Possession  | 15   | 3    | 5    | 14   | 4    | 6    | 3    | 4    |
|            | Producing   | 1    | -    | -    | -    | 1    | 1    | -    | -    |
|            | Unspecified | 6    | -    | -    | -    | -    | -    | -    | -    |
|            | Total       | 22   | 3    | 6    | 14   | 5    | 8    | 3    | 5    |
| Ouray      | Possession  |      |      | 4    |      |      |      |      |      |
|            | Total       |      |      | 4    |      |      |      |      |      |
| Park       | Sell        | 1    | -    | -    | -    | 1    | -    | -    | -    |
|            | Possession  | 7    | 1    | 4    | -    | -    | -    | 5    | 1    |
|            | Producing   | 1    | -    | -    | 2    | 2    | -    | -    | 1    |
|            | Unspecified | 1    | -    | -    | -    | -    | -    | -    | -    |
|            | Total       | 10   | 1    | 4    | 2    | 3    |      | 5    | 2    |
| Phillips   | Possession  | 2    | 1    |      | 1    | 2    | 1    | 6    | 3    |
|            | Total       | 2    | 1    |      | 1    | 2    | 1    | 6    | 3    |
| Pitkin     | Sell        | -    |      | -    | 2    | -    | -    | -    | -    |
|            | Possession  | 7    |      | 9    | 5    | 4    | 3    | 1    | 1    |
|            | Unspecified | -    |      | 1    | -    | -    | -    | -    | -    |
|            | Total       | 7    |      | 10   | 7    | 4    | 3    | 1    | 1    |
| Prowers    | Sell        | -    | 2    | 2    | 1    | 1    | -    | 1    | -    |
|            | Smuggle     | -    | -    | -    | -    | 1    | -    | -    | -    |
|            | Possession  | 90   | 30   | 35   | 2    | 3    | 2    | 18   | 9    |
|            | Producing   | -    | -    | -    | -    | 2    | -    | -    | -    |
|            | Unspecified | 1    | 2    | 1    | -    | -    | -    | -    | -    |
|            | Total       | 91   | 34   | 38   | 3    | 7    | 2    | 19   | 9    |
| Pueblo     | Sell        | -    | 1    | -    | -    | 1    | -    | -    | -    |
|            | Possession  | 11   | 9    | 14   | 18   | 40   | 34   | 35   | 38   |
|            | Producing   | -    | -    | -    | -    | -    | -    | -    | 8    |
|            | Unspecified | 16   | 16   | 12   | 4    | 6    | 4    | 5    | 3    |
|            | Total       | 27   | 26   | 26   | 22   | 47   | 38   | 40   | 49   |
| Rio Blanco | Possession  | 26   | 4    | 18   | 11   | 3    | 2    | 1    | 1    |
|            | Total       | 26   | 4    | 18   | 11   | 3    | 2    | 1    | 1    |
| Rio Grande | Sell        | -    | 1    | -    | 1    | -    | -    | -    | -    |
|            | Smuggle     | -    | 1    | -    | -    | -    | -    | -    | -    |
|            | Possession  | 27   | 3    | 2    | 10   | 6    | 8    | 15   | 11   |
|            | Producing   | -    | -    | -    | -    | -    | -    | 2    | 1    |
|            | Unspecified | 1    | -    | -    | -    | -    | -    | 2    | -    |
|            | Total       | 28   | 5    | 2    | 11   | 6    | 8    | 19   | 12   |



**Appendix C, Table 3. Marijuana arrests, by county and drug crime type, 2012-2019**

| County             | Type        | 2012  | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--------------------|-------------|-------|------|------|------|------|------|------|------|
| Routt              | Sell        | 1     | -    | -    | 1    | -    | -    | -    | -    |
|                    | Possession  | 88    | 26   | 46   | 35   | 46   | 43   | 40   | 32   |
|                    | Producing   | -     | -    | -    | 3    | -    | -    | -    | -    |
|                    | Unspecified | 3     | 10   | 15   | 8    | 1    | 3    | 2    | 4    |
|                    | Total       | 92    | 36   | 61   | 47   | 47   | 46   | 42   | 36   |
| Saguache           | Possession  | 11    |      | 2    | 2    |      | 4    |      |      |
|                    | Unspecified | -     |      | -    | -    |      | 7    |      |      |
|                    | Total       | 11    |      | 2    | 2    |      | 11   |      |      |
| San Juan           | Sell        |       | 1    |      |      |      |      |      |      |
|                    | Total       |       | 1    |      |      |      |      |      |      |
| San Miguel         | Possession  |       |      |      |      | -    |      | 2    | 3    |
|                    | Producing   |       |      |      |      | 4    |      | -    | -    |
|                    | Total       |       |      |      |      | 4    |      | 2    | 3    |
| Sedgwick           | Possession  | 1     | 3    | -    |      |      |      |      |      |
|                    | Producing   | -     | -    | 1    |      |      |      |      |      |
|                    | Total       | 1     | 3    | 1    |      |      |      |      |      |
| Summit             | Possession  | 63    | 5    | 2    | 14   | 12   | 5    | 5    | -    |
|                    | Unspecified | 2     | -    | 4    | 8    | 8    | 1    | 5    | 1    |
|                    | Total       | 65    | 5    | 6    | 22   | 20   | 6    | 10   | 1    |
| Teller             | Sell        | -     | -    | 2    | 3    | 5    | 4    | 2    | 1    |
|                    | Possession  | 52    | 45   | 26   | 18   | 26   | 20   | 37   | 20   |
|                    | Producing   | 1     | -    | -    | -    | 1    | -    | 14   | 3    |
|                    | Unspecified | 3     | 2    | 6    | 4    | -    | 1    | 10   | 8    |
|                    | Total       | 56    | 47   | 34   | 25   | 32   | 25   | 63   | 32   |
| Washington         | Possession  | 20    | 2    | -    | 1    | 2    |      |      |      |
|                    | Unspecified | -     | -    | 1    | -    | -    |      |      |      |
|                    | Total       | 20    | 2    | 1    | 1    | 2    |      |      |      |
| Weld               | Sell        | 11    | 16   | 11   | 4    | 7    | 16   | 22   | 1    |
|                    | Smuggle     | -     | -    | -    | -    | 1    | 1    | 3    | -    |
|                    | Possession  | 485   | 313  | 316  | 257  | 244  | 201  | 223  | 197  |
|                    | Producing   | 7     | 4    | 2    | 6    | 3    | 9    | 11   | 8    |
|                    | Unspecified | 2     | 5    | 1    | 4    | 15   | 3    | 8    | 9    |
|                    | Total       | 505   | 338  | 330  | 271  | 270  | 230  | 267  | 215  |
| Yuma               | Possession  | 2     | 4    |      |      |      |      | 1    | -    |
|                    | Producing   | -     | -    |      |      |      |      | -    | 6    |
|                    | Total       | 2     | 4    |      |      |      |      | 1    | 6    |
| Unspecified county | Sell        | 22    | 10   | 6    | 11   | 5    | 9    | 4    | 1    |
|                    | Smuggle     | 1     | 2    | -    | 2    | 1    | -    | -    | -    |
|                    | Possession  | 1,140 | 238  | 289  | 303  | 246  | 239  | 202  | 136  |
|                    | Producing   | 2     | -    | 2    | 2    | -    | 1    | -    | 1    |
|                    | Unspecified | 95    | 21   | 26   | 4    | 10   | 4    | 2    | 15   |
|                    | Total       | 1,260 | 271  | 323  | 322  | 262  | 253  | 208  | 153  |





**Appendix C, Table 3. Marijuana arrests, by county and drug crime type, 2012-2019**

| County | Type        | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|--------|-------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Total  | Sell        | 301    | 224   | 229   | 174   | 221   | 249   | 232   | 133   |
|        | Smuggle     | 6      | 5     | -     | 4     | 8     | 3     | 13    | 4     |
|        | Possession  | 11,360 | 5,404 | 5,962 | 5,974 | 5,416 | 5,113 | 4,683 | 3,265 |
|        | Producing   | 179    | 111   | 176   | 192   | 256   | 274   | 258   | 185   |
|        | Unspecified | 1,379  | 893   | 761   | 654   | 601   | 844   | 784   | 703   |
|        | Total       | 13,225 | 6,637 | 7,128 | 6,998 | 6,502 | 6,483 | 5,970 | 4,290 |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System, analyzed by the Division of Criminal Justice.

Note: Since county is determined based on the law enforcement agency's location there are some statewide agencies, such as the Colorado State Patrol, that cannot be assigned to a specific county.

**Appendix C, Table 4. Marijuana arrests, by agency, 2012–2019**

| Agency                              | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|-------------------------------------|------|------|------|------|------|------|------|------|
| Acet (All Crimes Enforcement Team)  | -    | -    | -    | -    | -    | 1    | 1    | 1    |
| Adams County SO                     | 753  | 289  | 169  | 175  | 119  | 119  | 101  | 40   |
| Adams State College                 | -    | 6    | 12   | 17   | 14   | 9    | 17   | 15   |
| Aims Community College PD           | 2    | -    | -    | -    | -    | -    | -    | -    |
| Alamosa County SO                   | 2    | -    | -    | -    | -    | -    | -    | -    |
| Alamosa PD                          | -    | -    | -    | 5    | 1    | 14   | 11   | 7    |
| Arapahoe Community College          | 1    | 1    | 1    | 1    | 1    | -    | -    | 1    |
| Arapahoe County SO                  | 77   | 39   | 50   | 23   | 39   | 58   | 37   | 10   |
| Archuleta County SO                 | 1    | -    | -    | 1    | 4    | 4    | 1    | 6    |
| Arvada PD                           | 486  | 235  | 264  | 293  | 220  | 219  | 173  | 149  |
| Aspen PD                            | 7    | -    | 10   | 3    | -    | 2    | 1    | -    |
| Ault PD                             | 2    | -    | 4    | 3    | 3    | -    | -    | 1    |
| Auraria Department of Public Safety | 5    | -    | -    | 7    | 6    | 7    | 1    | 1    |
| Aurora PD                           | 729  | 397  | 510  | 430  | 451  | 362  | 291  | 220  |
| Avon PD                             | 60   | 7    | 25   | 22   | 7    | 21   | 7    | 9    |
| Baca County SO                      | 4    | 3    | -    | 1    | -    | -    | -    | 1    |
| Basalt PD                           | 7    | 4    | 1    | 3    | -    | -    | -    | -    |
| Bayfield PD                         | -    | -    | -    | 3    | 3    | 3    | 7    | 1    |
| Bent County SO                      | -    | 1    | -    | 1    | -    | -    | -    | 1    |
| Berthoud PD                         | 5    | 5    | -    | -    | -    | -    | -    | -    |
| Black Hawk PD                       | 69   | -    | 1    | 2    | -    | 2    | 1    | -    |
| Boulder County SO                   | -    | -    | -    | 51   | 58   | 72   | 55   | 55   |
| Boulder PD                          | 142  | 80   | 77   | 46   | 38   | 19   | 22   | 7    |
| Bow Mar PD                          | -    | -    | -    | -    | -    | 1    | -    | -    |
| Breckenridge PD                     | 1    | -    | 4    | 16   | 13   | 4    | 5    | 1    |
| Brighton PD                         | 210  | 125  | 169  | 186  | 136  | 183  | 108  | 63   |
| Broomfield PD                       | 299  | 133  | 132  | 93   | 121  | 116  | 122  | 116  |
| Brush PD                            | 10   | 2    | -    | 2    | 7    | 4    | 4    | -    |
| Buena Vista PD                      | 1    | 2    | 2    | 11   | 6    | 6    | 10   | 1    |
| Burlington PD                       | 8    | 6    | 1    | 3    | 7    | 5    | 3    | -    |
| Campo PD                            | 13   | 5    | -    | -    | -    | -    | -    | -    |
| Canon City PD                       | 26   | 8    | 4    | 6    | -    | 23   | 14   | 8    |
| Carbondale PD                       | -    | 1    | -    | -    | 7    | 8    | 15   | 13   |
| Castle Rock PD                      | 114  | 63   | 38   | 67   | 64   | 107  | 64   | 29   |
| Cedaredge PD                        | -    | -    | -    | 1    | -    | -    | -    | -    |
| Centennial PD                       | 78   | 32   | 34   | 15   | 30   | 20   | 39   | 7    |
| Center PD                           | 4    | -    | 1    | 2    | -    | 11   | -    | -    |
| Central City PD                     | -    | 4    | 2    | -    | -    | -    | -    | -    |
| Chaffee County SO                   | 19   | 3    | 3    | 2    | 7    | 2    | 5    | -    |
| Cherry Hills Village PD             | -    | 4    | -    | 3    | -    | -    | -    | -    |



**Appendix C, Table 4. Marijuana arrests, by agency, 2012–2019**

| Agency   | 2012  | 2013 | 2014 | 2015  | 2016 | 2017 | 2018 | 2019 |
|--|-------|------|------|-------|------|------|------|------|
| Cheyenne County SO   | 2     | 1    | -    | -     | -    | -    | -    | -    |
| Clear Creek County SO  | 32    | 5    | 6    | 7     | 2    | 1    | 2    | -    |
| Colorado Bureau of Investigation                                     | -     | -    | -    | -     | -    | -    | -    | 11   |
| Colorado Mental Health Institute - Pueblo                            | -     | -    | 1    | -     | -    | 1    | -    | -    |
| Colorado School of Mines Department of Public Safety                 | 7     | 6    | 7    | 2     | 8    | 18   | 8    | 1    |
| Colorado Springs PD  | 433   | 251  | 322  | 356   | 461  | 318  | 348  | 300  |
| Colorado State Patrol  | 1,260 | 271  | 323  | 320   | 262  | 252  | 207  | 152  |
| Colorado State University Department of Public Safety - Fort Collins | 83    | 60   | 43   | 42    | 71   | 46   | 33   | 16   |
| Commerce City PD   | 201   | 149  | 104  | 79    | 64   | 55   | 96   | 61   |
| Conejos County SO  | 2     | -    | -    | -     | -    | -    | -    | -    |
| Cortez PD  | 8     | 1    | 3    | 1     | 1    | 6    | 9    | 15   |
| Costilla County SO   | -     | -    | 1    | -     | -    | -    | -    | -    |
| Craig PD   | 86    | 21   | 18   | 21    | 35   | 24   | 14   | 9    |
| Crested Butte PD   | 2     | 4    | 5    | 4     | 6    | 10   | 12   | 3    |
| Cripple Creek PD   | 14    | 8    | 5    | 5     | 3    | 2    | 9    | 11   |
| Crowley County SO  | -     | -    | -    | 1     | -    | 4    | 7    | 5    |
| Custer County SO   | 1     | 1    | 3    | 4     | 2    | 2    | 6    | 11   |
| Dacono PD  | 4     | -    | 1    | -     | 1    | 4    | 3    | 6    |
| De Beque PD  | -     | 5    | -    | -     | -    | -    | -    | -    |
| Del Norte PD   | 9     | -    | -    | 5     | 1    | 1    | -    | -    |
| Delta County SO  | -     | 2    | -    | -     | 4    | -    | 6    | 1    |
| Delta PD   | 14    | 11   | 4    | 1     | 18   | 19   | 23   | 12   |
| Delta/Montrose Drug Task Force                                       | 1     | -    | 1    | -     | -    | -    | -    | 8    |
| Denver PD  | 173   | 472  | 851  | 1,130 | 618  | 277  | 332  | 148  |
| Dillion PD   | -     | -    | -    | 1     | 1    | 1    | -    | -    |
| Division of Gaming Enforcement - Central City                        | -     | 1    | -    | -     | -    | -    | -    | -    |
| Dolores County SO  | -     | 1    | 1    | -     | -    | 4    | 2    | 1    |
| Douglas County SO  | 234   | 164  | 121  | 119   | 148  | 214  | 167  | 191  |
| Durango PD   | 22    | 9    | 7    | 36    | 31   | 57   | 45   | 6    |
| Eagle County SO  | 87    | 58   | 31   | 19    | 30   | 7    | 21   | 22   |
| Eagle PD   | 17    | 3    | 7    | 4     | 8    | 21   | 20   | 4    |
| Eaton PD   | 2     | 5    | -    | 1     | 2    | 4    | 1    | 1    |
| Edgewater PD   | 6     | 5    | -    | 10    | 8    | 29   | 11   | 14   |
| El Paso County SO  | 154   | 124  | 116  | 25    | 35   | 42   | 104  | 94   |
| Elbert County SO   | 8     | 2    | 1    | 7     | 4    | 13   | 3    | 3    |



**Appendix C, Table 4. Marijuana arrests, by agency, 2012–2019**

| Agency                | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|-----------------------|------|------|------|------|------|------|------|------|
| Elizabeth PD          | 9    | 17   | 16   | -    | -    | -    | 4    | 6    |
| Empire PD             | 2    | 2    | -    | -    | -    | -    | -    | -    |
| Englewood PD          | 252  | 94   | 96   | 102  | 85   | 84   | 70   | 54   |
| Erie PD               | 26   | 22   | 43   | 23   | 37   | 22   | 46   | 31   |
| Estes Park PD         | 18   | 2    | 4    | 2    | 5    | 2    | -    | -    |
| Evans PD              | 59   | 33   | 28   | 18   | 8    | 17   | 20   | 25   |
| Fairplay PD           | -    | -    | -    | -    | -    | -    | 1    | -    |
| Federal Heights PD    | 83   | 14   | 4    | 20   | 27   | 30   | 25   | 20   |
| Firestone PD          | 7    | 15   | 8    | 13   | 19   | 14   | 4    | 9    |
| Florence PD           | 12   | 3    | -    | -    | 2    | -    | -    | -    |
| Fort Collins PD       | 285  | 180  | 201  | 181  | 253  | 225  | 204  | 177  |
| Fort Lewis College PD | 33   | 42   | 67   | 26   | 34   | 20   | 6    | 4    |
| Fort Lupton PD        | 47   | 3    | 10   | 11   | 3    | 5    | 16   | -    |
| Fort Morgan PD        | 34   | 17   | 27   | 8    | 10   | 20   | 15   | 10   |
| Fountain PD           | 153  | 92   | 72   | 62   | 32   | 96   | 78   | 53   |
| Fowler PD             | 1    | -    | -    | -    | 4    | 1    | -    | -    |
| Fraser/Winter Park PD | -    | -    | -    | -    | 1    | -    | -    | -    |
| Frederick PD          | 17   | 8    | 16   | 16   | 10   | 13   | 2    | -    |
| Fremont County SO     | 7    | 1    | 1    | 6    | 7    | 5    | 1    | 4    |
| Frisco PD             | 15   | -    | -    | -    | -    | -    | 1    | -    |
| Fruita PD             | 27   | 41   | 38   | 29   | 15   | 10   | 21   | 37   |
| Garden City PD        | 1    | 1    | 3    | 1    | 2    | -    | -    | -    |
| Garfield County SO    | 15   | 9    | 4    | 14   | 19   | 38   | 37   | 14   |
| Georgetown PD         | -    | 1    | -    | 2    | -    | -    | -    | -    |
| Gilpin County SO      | 31   | 2    | 1    | 4    | 3    | 5    | 14   | 13   |
| Glendale PD           | 7    | 2    | -    | 3    | 2    | -    | 1    | -    |
| Glenwood Springs PD   | 139  | 29   | 28   | 33   | 25   | 25   | 19   | 59   |
| Golden PD             | 78   | 41   | 50   | 43   | 29   | 37   | 15   | 28   |
| Granby PD             | 14   | 2    | 4    | -    | 2    | -    | -    | -    |
| Grand Junction PD     | 527  | 319  | 317  | 301  | 287  | 354  | 232  | 157  |
| Greeley PD            | 250  | 177  | 141  | 107  | 94   | 81   | 99   | 62   |
| Greenwood Village PD  | 131  | 49   | 31   | 52   | 31   | 25   | 19   | 9    |
| Gunnison PD           | 32   | 24   | 16   | 42   | 25   | 28   | 41   | 29   |
| Gunnison County SO    | -    | 1    | 3    | 1    | -    | 5    | 1    | 5    |
| Gypsum PD             | -    | -    | 3    | 14   | 3    | 3    | 3    | 1    |
| Haxtun PD             | -    | -    | 4    | -    | -    | 2    | -    | -    |
| Hinsdale County SO    | -    | -    | -    | -    | 2    | -    | -    | 1    |
| Holyoke PD            | 2    | 1    | -    | 1    | 2    | -    | 4    | 3    |
| Hotchkiss PD          | 1    | 1    | 4    | 1    | 2    | 3    | 3    | 3    |
| Hudson PD             | 2    | -    | 4    | -    | -    | -    | -    | -    |
| Huerfano County SO    | 1    | -    | 1    | 1    | 6    | 1    | 4    | 7    |
| Hugo Marshals Office  | -    | -    | -    | 1    | 1    | -    | -    | -    |



**Appendix C, Table 4. Marijuana arrests, by agency, 2012–2019**

| Agency               | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|----------------------|------|------|------|------|------|------|------|------|
| Idaho Springs PD     | 11   | -    | 1    | 1    | -    | -    | 3    | 2    |
| Ignacio PD           | -    | -    | -    | -    | -    | -    | 1    | -    |
| Jefferson County SO  | 431  | 222  | 204  | 219  | 201  | 220  | 186  | 119  |
| Johnstown PD         | 9    | 1    | -    | -    | 8    | 15   | 20   | 19   |
| Keenesburg PD        | -    | 1    | -    | 2    | -    | -    | -    | -    |
| Kersey PD            | -    | 6    | 2    | 4    | -    | 1    | -    | -    |
| Kiowa County SO      | 1    | 3    | -    | -    | -    | -    | -    | -    |
| Kit Carson County SO | 11   | 8    | 3    | 14   | 6    | 11   | 1    | 4    |
| La Junta PD          | 20   | 3    | 6    | 14   | 1    | 6    | 3    | 3    |
| La Plata County SO   | -    | 2    | 7    | -    | 1    | -    | -    | -    |
| Lafayette PD         | 125  | 26   | 36   | 15   | 32   | 26   | 26   | 31   |
| Lake County SO       | 10   | -    | 1    | -    | -    | 1    | -    | -    |
| Lakeside PD          | 13   | -    | 1    | 3    | 1    | 2    | -    | 1    |
| Lakewood PD          | 411  | 233  | 348  | 254  | 360  | 316  | 243  | 44   |
| Lamar PD             | 71   | 28   | 28   | 2    | -    | 2    | 18   | 8    |
| Larimer County SO    | 255  | 78   | 74   | 56   | 58   | 59   | 86   | 27   |
| Las Animas County SO | -    | -    | -    | -    | -    | -    | -    | 3    |
| LaSalle PD           | 4    | -    | -    | -    | -    | -    | -    | -    |
| Leadville PD         | 17   | 3    | 2    | -    | 2    | -    | -    | 1    |
| Lincoln County SO    | 1    | -    | -    | -    | -    | 7    | 2    | -    |
| Littleton PD         | 167  | 62   | 65   | 51   | 40   | 32   | 39   | 16   |
| Lochbuie PD          | -    | 2    | 1    | 8    | -    | 1    | -    | -    |
| Log Lane Village PD  | -    | -    | -    | 1    | -    | -    | -    | -    |
| Logan County SO      | 37   | 2    | 13   | 5    | 6    | 5    | 22   | 6    |
| Lone Tree PD         | 93   | 13   | 5    | 17   | 12   | 23   | 24   | 28   |
| Longmont PD          | 77   | 50   | 79   | 83   | 82   | 60   | 56   | 33   |
| Louisville PD        | -    | 1    | 10   | 11   | 28   | 42   | 18   | 11   |
| Loveland PD          | 281  | 154  | 140  | 151  | 136  | 139  | 142  | 253  |
| Mancos PD            | -    | -    | -    | 1    | -    | 1    | -    | -    |
| Manitou Springs PD   | 67   | 43   | 68   | 53   | 24   | 4    | -    | -    |
| Mead PD              | 3    | 8    | 12   | 13   | 16   | 4    | -    | 13   |
| Meeker PD            | 4    | -    | 1    | -    | -    | -    | -    | -    |
| Mesa County SO       | 110  | 68   | 89   | 72   | 40   | 75   | 69   | 64   |
| Milliken PD          | -    | 3    | 10   | 5    | 7    | 8    | 4    | 2    |
| Minturn PD           | 1    | -    | -    | -    | -    | -    | -    | -    |
| Moffat County SO     | 18   | 1    | 2    | 8    | 12   | 6    | 5    | 1    |
| Monte Vista PD       | 19   | 3    | 2    | 6    | 5    | 7    | 17   | 9    |
| Montezuma County SO  | 66   | 5    | 11   | 4    | 9    | 3    | 6    | 13   |
| Montrose County SO   | 25   | 13   | 11   | 6    | 11   | 3    | 3    | 3    |
| Montrose PD          | 109  | 38   | 35   | 33   | 22   | 25   | 33   | 27   |
| Monument PD          | 17   | 5    | 1    | 2    | 5    | 11   | -    | -    |
| Morgan County SO     | 8    | -    | 7    | 1    | 1    | -    | -    | -    |



**Appendix C, Table 4. Marijuana arrests, by agency, 2012–2019**

| Agency                          | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---------------------------------|------|------|------|------|------|------|------|------|
| Morrison PD                     | 2    | -    | -    | -    | -    | -    | -    | -    |
| Mountain View PD                | 1    | -    | 1    | -    | 1    | 3    | 4    | 1    |
| Mountain Village PD             | -    | -    | -    | -    | -    | -    | 1    | -    |
| Mt Crested Butte PD             | 3    | -    | 8    | 2    | 2    | 1    | -    | -    |
| Nederland PD                    | -    | -    | -    | -    | 1    | -    | 3    | 1    |
| New Castle PD                   | -    | -    | -    | -    | -    | -    | 1    | 6    |
| Northglenn PD                   | 219  | 103  | 110  | 91   | 76   | 67   | 74   | 35   |
| Oak Creek PD                    | -    | -    | -    | -    | -    | 1    | 1    | 4    |
| Otero County SO                 | 1    | -    | -    | -    | -    | 1    | -    | 2    |
| Ouray PD                        | -    | -    | 4    | -    | -    | -    | -    | -    |
| Pagosa Springs PD               | 16   | 3    | 6    | 18   | 8    | 2    | 11   | 8    |
| Palisade PD                     | -    | -    | 12   | 9    | 5    | 21   | 11   | 6    |
| Palmer Lake Marshal             | 1    | -    | -    | -    | -    | -    | -    | -    |
| Paonia PD                       | -    | 2    | -    | -    | -    | -    | -    | -    |
| Parachute PD                    | 13   | 2    | 10   | 25   | 14   | 8    | 11   | -    |
| Park County SO                  | 10   | 1    | 4    | 2    | 3    | -    | 4    | 2    |
| Parker PD                       | 96   | 93   | 54   | 55   | 49   | 70   | 45   | 38   |
| Phillips County SO              | -    | -    | -    | -    | -    | 1    | 2    | -    |
| Pikes Peak Community College PD | 5    | -    | 1    | -    | 1    | -    | 1    | -    |
| Pitkin County SO                | -    | -    | -    | 4    | 4    | 1    | -    | 1    |
| Platteville PD                  | -    | -    | -    | -    | 1    | -    | 3    | -    |
| Prowers County SO               | 20   | 6    | 10   | 1    | 7    | -    | 1    | 1    |
| Pueblo County SO                | 1    | 21   | 19   | 21   | 43   | 36   | 36   | 41   |
| Pueblo PD                       | 26   | 5    | 6    | 1    | 4    | 1    | 4    | 8    |
| Rangely PD                      | 4    | 3    | 17   | 8    | 3    | 1    | 1    | 1    |
| Red Rocks PD                    | 11   | -    | 3    | 3    | 2    | 1    | 2    | -    |
| Rifle PD                        | -    | 9    | 2    | 10   | 10   | 44   | 36   | 29   |
| Rio Blanco County SO            | 18   | 1    | -    | 3    | -    | 1    | -    | -    |
| Rio Grande County SO            | -    | 2    | -    | -    | -    | -    | 2    | 3    |
| Routt County SO                 | 10   | -    | 1    | 6    | 1    | 2    | 2    | 1    |
| Saguache County SO              | 7    | -    | 1    | -    | -    | -    | -    | -    |
| Salida PD                       | 27   | 9    | 12   | -    | 7    | 2    | 2    | 1    |
| San Juan County SO              | -    | 1    | -    | -    | -    | -    | -    | -    |
| San Miguel County SO            | -    | -    | -    | -    | 4    | -    | -    | 1    |
| Sedgwick County SO              | 1    | 3    | 1    | -    | -    | -    | -    | -    |
| Severance PD                    | 2    | -    | 1    | -    | 3    | 2    | 2    | 4    |
| Sheridan PD                     | 36   | 22   | 32   | 31   | 13   | 10   | 21   | 7    |
| Silt PD                         | 1    | -    | -    | 1    | 1    | 5    | 12   | 7    |
| Silverthorne PD                 | 6    | -    | 1    | 3    | 5    | 1    | 1    | -    |
| Simla PD                        | -    | -    | -    | -    | -    | -    | -    | 2    |
| Southwest Drug Task Force       | -    | -    | -    | 2    | -    | -    | -    | -    |



**Appendix C, Table 4. Marijuana arrests, by agency, 2012–2019**

| Agency  | 2012          | 2013         | 2014         | 2015         | 2016         | 2017         | 2018         | 2019         |
|---|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Springfield PD  | -             | -            | 1            | -            | 2            | -            | -            | 1            |
| Steamboat Springs PD  | 82            | 36           | 56           | 41           | 46           | 41           | 39           | 31           |
| Sterling PD   | 4             | 1            | 16           | 29           | 11           | 7            | 9            | 2            |
| Summit County SO  | 43            | 5            | 1            | 2            | 1            | -            | 3            | -            |
| Teller County SO  | 18            | 2            | 6            | 5            | 1            | 2            | 26           | 7            |
| Telluride PD  | -             | -            | -            | -            | -            | -            | 1            | 2            |
| Thornton PD   | 440           | 171          | 160          | 144          | 202          | 272          | 238          | 164          |
| Tinmath PD  | -             | -            | 1            | -            | 6            | -            | 2            | 3            |
| Trinidad PD   | 7             | 5            | 1            | 1            | -            | 4            | 12           | 3            |
| University of Colorado<br>PD - Boulder                                      | 380           | 282          | 162          | 204          | 242          | 476          | 434          | 254          |
| University of Colorado<br>PD - Colorado Springs                             | 38            | 24           | 31           | 11           | 4            | 8            | 11           | 12           |
| University of Colorado<br>PD - Denver/Anschutz<br>Medical Campus            | 8             | -            | 1            | 2            | -            | -            | 1            | -            |
| University of Northern<br>Colorado Department of<br>Public Safety - Greeley | -             | 13           | 16           | 16           | 22           | 9            | 19           | 25           |
| Vail PD   | 118           | 66           | 33           | 62           | 52           | 38           | 29           | 9            |
| Walsenburg PD   | 12            | -            | 3            | 5            | 3            | -            | -            | -            |
| Washington County SO  | 20            | 2            | 1            | 1            | 2            | -            | -            | -            |
| Weld County SO  | 39            | 21           | 26           | 27           | 33           | 26           | 26           | 17           |
| Westminster PD  | 509           | 175          | 162          | 117          | 123          | 115          | 117          | 86           |
| Wheat Ridge PD  | 108           | 63           | 92           | 70           | 56           | 58           | 41           | 13           |
| Windsor PD  | 29            | 19           | 4            | 3            | 1            | 4            | 2            | -            |
| Woodland Park PD  | 24            | 37           | 23           | 15           | 28           | 21           | 28           | 14           |
| Wray PD   | -             | -            | -            | -            | -            | -            | -            | 1            |
| Yuma County SO  | 2             | -            | -            | -            | -            | -            | -            | 5            |
| Yuma PD   | -             | 4            | -            | -            | -            | -            | 1            | -            |
| <b>Total</b>  | <b>13,225</b> | <b>6,637</b> | <b>7,128</b> | <b>6,998</b> | <b>6,502</b> | <b>6,483</b> | <b>5,970</b> | <b>4,290</b> |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System, analyzed by the Division of Criminal Justice.

**Appendix C, Table 5. Marijuana arrests in Denver, 2012–2017**

| <b>Arrests</b>           | 2012  | 2013 | 2014 | 2015 | 2016 | 2017 |
|--------------------------|-------|------|------|------|------|------|
| Total (Individual)*      | 1,605 | 903  | 474  | 526  | 499  | 302  |
| <b>Gender</b>            |       |      |      |      |      |      |
| Male                     | 1,319 | 743  | 390  | 434  | 400  | 239  |
| Female                   | 286   | 160  | 84   | 91   | 98   | 62   |
| Unknown/Not Listed       | 0     | 0    | 0    | 1    | 1    | 1    |
| <b>Age</b>               |       |      |      |      |      |      |
| Under 18                 | 378   | 396  | 312  | 302  | 302  | 119  |
| 18-20                    | 287   | 93   | 56   | 82   | 56   | 30   |
| 21 and older             | 939   | 414  | 106  | 142  | 140  | 152  |
| Unknown/Not Listed       | 1     | 0    | 0    | 0    | 1    | 1    |
| <b>Race/ethnicity</b>    |       |      |      |      |      |      |
| White (non-Hispanic)     | 835   | 385  | 129  | 160  | 104  | 137  |
| African-American         | 469   | 219  | 130  | 133  | 118  | 47   |
| Hispanic                 | 272   | 277  | 195  | 201  | 237  | 99   |
| Asian / Pacific Islander | 14    | 6    | 4    | 15   | 16   | 17   |
| Native American          | 13    | 11   | 5    | 3    | 2    | 0    |
| Other/Unknown/Not Listed | 2     | 5    | 11   | 14   | 22   | 2    |
| <b>Type of crime **</b>  |       |      |      |      |      |      |
| Possession               | 1,587 | 667  | 397  | 431  | 389  | 336  |
| Production/cultivation   | 1     | 6    | 9    | 55   | 61   | 107  |
| Sales                    | 10    | 46   | 71   | 97   | 99   | 108  |
| Smuggling                | 0     | 0    | 0    | 0    | 0    | 0    |
| Unspecified/Other        | 8     | 184  | 0    | 0    | 0    | 0    |

Source: Denver Police Department Data Analysis Unit.

\* Does not include warrant arrests for marijuana charges or Civil or Administrative Citations for certain marijuana violations after 2014

\*\* Count of Charge Types, not individual arrests. Type of Crimes may not sum to total arrests as one individual may be charged with multiple crimes.



## APPENDIX D

### OFFENSES REPORTED, BY LOCATION

**Appendix D, Table 6, Location of marijuana offenses, by year**

|                                      | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|--------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Total                                | 12,794 | 5,988 | 6,529 | 6,535 | 6,228 | 6,171 | 5,875 | 4,681 |
| Abandoned/Condemned Structure        | 3      | 1     | 2     | 3     | 0     | 2     | 1     | 0     |
| Air/Bus/Train Terminal               | 31     | 53    | 68    | 51    | 40    | 37    | 29    | 20    |
| Amusement Park                       | 4      | 3     | 1     | 2     | 2     | 1     | 3     | 1     |
| Arena/Stadium/Fairgrounds/Coliseum   | 17     | 11    | 8     | 10    | 11    | 9     | 9     | 8     |
| Auto Dealership New/Used             | 1      | 0     | 0     | 1     | 1     | 0     | 1     | 1     |
| Bank/Savings and Loan                | 5      | 1     | 1     | 0     | 2     | 1     | 1     | 2     |
| Bar/Nightclub                        | 75     | 22    | 13    | 17    | 11    | 11    | 13    | 2     |
| Camp/Campground                      | 4      | 0     | 1     | 4     | 1     | 3     | 4     | 2     |
| Church/Synagogue/Temple/Mosque       | 4      | 8     | 6     | 12    | 8     | 6     | 7     | 4     |
| Commercial/Office Building           | 43     | 34    | 33    | 39    | 43    | 54    | 45    | 55    |
| Community Center                     | 0      | 4     | 5     | 3     | 6     | 6     | 8     | 5     |
| Construction Site                    | 5      | 0     | 1     | 1     | 1     | 1     | 2     | 0     |
| Convenience Store                    | 48     | 27    | 23    | 29    | 25    | 24    | 27    | 26    |
| Cyberspace                           | 0      | 0     | 0     | 0     | 0     | 0     | 3     | 1     |
| Daycare Facility                     | 0      | 0     | 1     | 0     | 0     | 0     | 1     | 0     |
| Department/Discount Store            | 112    | 66    | 60    | 62    | 60    | 85    | 68    | 52    |
| Dock/Wharf/Freight/Modal Terminal    | 5      | 4     | 11    | 11    | 13    | 10    | 42    | 103   |
| Drug Store/Doctors Office/Hospital   | 24     | 8     | 7     | 7     | 13    | 18    | 12    | 7     |
| Farm Facility                        | 0      | 3     | 0     | 0     | 0     | 1     | 1     | 0     |
| Field/Woods                          | 151    | 122   | 72    | 72    | 49    | 46    | 50    | 35    |
| Gambling Facility/Casino/Race Track  | 14     | 2     | 1     | 1     | 0     | 3     | 0     | 3     |
| Government/Public Building           | 84     | 44    | 38    | 46    | 35    | 54    | 49    | 45    |
| Grocery/Supermarket                  | 48     | 21    | 24    | 23    | 16    | 11    | 14    | 11    |
| Highway/Road/Alley/Street/Sidewalk   | 6,796  | 2,226 | 2,194 | 2,221 | 2,051 | 1,930 | 1,629 | 1,202 |
| Hotel/Motel/Etc.                     | 151    | 38    | 29    | 31    | 42    | 35    | 42    | 28    |
| Industrial Site                      | 1      | 0     | 3     | 3     | 3     | 2     | 4     | 1     |
| Jail/Prison/Penitentiary/Corrections | 49     | 27    | 30    | 29    | 30    | 31    | 31    | 32    |
| Lake/Waterway/Beach                  | 10     | 4     | 4     | 5     | 3     | 4     | 5     | 1     |
| Liquor Store                         | 8      | 1     | 0     | 1     | 2     | 2     | 4     | 0     |
| Military Installation                | 2      | 0     | 0     | 0     | 0     | 0     | 1     | 0     |
| Other/Unknown                        | 513    | 191   | 236   | 226   | 250   | 208   | 188   | 82    |
| Park/Playground                      | 227    | 198   | 369   | 472   | 345   | 323   | 241   | 172   |
| Parking/Drop Lot/Garage              | 955    | 388   | 427   | 416   | 452   | 384   | 346   | 245   |
| Rental Storage Facility              | 9      | 6     | 1     | 2     | 9     | 6     | 4     | 4     |
| Residence/Home                       | ---    | 564   | 668   | 679   | 796   | 825   | 797   | 638   |
| Rest Area                            | 2      | 1     | 1     | 1     | 1     | 2     | 2     | 1     |



|                                 |       |       |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Restaurant                      | 46    | 18    | 21    | 28    | 26    | 27    | 31    | 22    |
| School – College/University     | 519   | 448   | 465   | 600   | 570   | 809   | 754   | 588   |
| School – Elementary/Secondary   | 1,010 | 1,390 | 1,654 | 1,358 | 1,236 | 1,137 | 1,337 | 1,183 |
| School/College(Historical Only) | 258   | 0     | 0     | 0     | 0     | 1     | 2     | 7     |
| Service/Gas Station             | 15    | 8     | 7     | 9     | 4     | 8     | 16    | 10    |
| Shelter – Mission/Homeless      | 1     | 1     | 0     | 4     | 2     | 3     | 1     | 5     |
| Shopping Mall                   | 19    | 15    | 9     | 11    | 10    | 7     | 7     | 5     |
| Specialty Store                 | 50    | 30    | 35    | 44    | 58    | 43    | 42    | 72    |
| Tribal Lands                    | 0     | 0     | 0     | 1     | 1     | 1     | 1     | 0     |

Source: Colorado Bureau of Investigation, National Incident-Based Reporting System. Analyzed by the Division of Criminal Justice.

## APPENDIX E COURT FILINGS

**Appendix E, Table 7. Marijuana court filings, by gender, 2008–2019**

|                                   | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>10-17 years old</b>            |       |       |       |       |       |       |       |       |       |       |       |       |
| Total cases                       | 1,755 | 1,616 | 1,640 | 1,544 | 1,624 | 1,492 | 1,532 | 1,766 | 1,497 | 1,610 | 1,660 | 1,407 |
| Total charges                     | 1,913 | 1,906 | 1,947 | 1,771 | 1,869 | 1,762 | 1,950 | 2,440 | 2,128 | 2,298 | 2,464 | 1,992 |
| <i>Charge law class</i>           |       |       |       |       |       |       |       |       |       |       |       |       |
| Felony                            | 224   | 254   | 195   | 151   | 145   | 132   | 34    | 27    | 35    | 23    | 20    | 28    |
| Misdemeanor                       | 122   | 110   | 108   | 85    | 78    | 116   | 229   | 168   | 116   | 193   | 148   | 119   |
| Petty offense                     | 1,567 | 1,542 | 1,644 | 1,535 | 1,646 | 1,512 | 1,650 | 2,211 | 1,954 | 2,065 | 2,270 | 1,812 |
| Traffic                           | -     | -     | -     | -     | -     | 2     | 36    | 34    | 23    | 17    | 26    | 33    |
| Unknown                           | -     | -     | -     | -     | -     | -     | 1     | -     | -     | -     | -     | -     |
| <i>Charge category</i>            |       |       |       |       |       |       |       |       |       |       |       |       |
| Conspiracy                        | 9     | 13    | 17    | 17    | 14    | 5     | 8     | 4     | 6     | 10    | 1     | 10    |
| Manufacture                       | 10    | 8     | 10    | 10    | 3     | 7     | -     | 6     | 3     | 1     | 1     | -     |
| Distribution                      | 64    | 100   | 67    | 79    | 72    | 84    | 89    | 53    | 33    | 72    | 34    | 32    |
| Possession with intent            | 110   | 107   | 86    | 49    | 45    | 62    | 47    | 46    | 63    | 50    | 48    | 40    |
| Possession                        | 1,643 | 1,571 | 1,649 | 1,564 | 1,653 | 1,518 | 1,185 | 468   | 212   | 213   | 138   | 98    |
| Public consumption                | 77    | 108   | 117   | 54    | 82    | 84    | 79    | 32    | 11    | 21    | 5     | 6     |
| Possession under 21               | -     | -     | -     | -     | -     | -     | 506   | 1,797 | 1,777 | 1,908 | 2,211 | 1,772 |
| Other                             | -     | 1     | 1     | -     | -     | -     | -     | -     | -     | 6     | -     | 1     |
| Possession-consumption in vehicle | -     | -     | -     | -     | -     | 2     | 36    | 34    | 23    | 17    | 26    | 33    |
| <b>18-20 years old</b>            |       |       |       |       |       |       |       |       |       |       |       |       |
| Total cases                       | 3,093 | 2,785 | 2,451 | 2,456 | 2,381 | 1,491 | 1,578 | 1,613 | 1,622 | 1,706 | 1,556 | 1,146 |
| Total charges                     | 3,150 | 3,195 | 2,833 | 2,751 | 2,660 | 1,724 | 1,951 | 2,203 | 2,259 | 2,467 | 2,224 | 1,619 |
| <i>Charge law class</i>           |       |       |       |       |       |       |       |       |       |       |       |       |
| Felony                            | 506   | 544   | 397   | 245   | 229   | 164   | 65    | 97    | 68    | 103   | 92    | 64    |
| Misdemeanor                       | 298   | 268   | 244   | 219   | 200   | 169   | 184   | 115   | 108   | 129   | 101   | 51    |
| Petty offense                     | 2,346 | 2,382 | 2,192 | 2,286 | 2,231 | 1,374 | 1,494 | 1,802 | 1,933 | 2,073 | 1,880 | 1,343 |
| Traffic                           | -     | -     | -     | -     | -     | 17    | 207   | 189   | 150   | 162   | 150   | 160   |
| Unknown                           | -     | 1     | -     | 1     | -     | -     | 1     | -     | -     | -     | 1     | 1     |

*Charge category*



**Appendix E, Table 7. Marijuana court filings, by gender, 2008–2019**

|                                   | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Conspiracy                        | 17    | 36    | 45    | 24    | 11    | 8     | 5     | 14    | 12    | 15    | 11    | 6     |
| Manufacture                       | 49    | 51    | 29    | 32    | 33    | 11    | 9     | 6     | 5     | 15    | 11    | 2     |
| Distribution                      | 108   | 131   | 99    | 76    | 85    | 60    | 62    | 58    | 39    | 39    | 34    | 22    |
| Possession with intent            | 231   | 231   | 153   | 92    | 87    | 72    | 38    | 51    | 44    | 63    | 60    | 40    |
| Possession                        | 2,717 | 2,714 | 2,468 | 2,457 | 2,386 | 1,476 | 1,262 | 480   | 266   | 260   | 156   | 96    |
| Public consumption                | 22    | 31    | 32    | 67    | 54    | 74    | 94    | 47    | 23    | 23    | 24    | 14    |
| Possession under 21               | -     | -     | -     | 1     | -     | 3     | 273   | 1,357 | 1,718 | 1,884 | 1,775 | 1,278 |
| Other                             | 6     | 2     | 7     | 2     | 4     | 3     | 1     | 1     | 2     | 6     | 3     | 1     |
| Possession-consumption in vehicle | -     | -     | -     | -     | -     | 17    | 207   | 189   | 150   | 162   | 150   | 160   |
| <b>21 years or older</b>          |       |       |       |       |       |       |       |       |       |       |       |       |
| Total cases                       | 6,887 | 6,489 | 6,003 | 5,778 | 5,903 | 1,051 | 1,505 | 1,552 | 1,792 | 2,003 | 1,998 | 1,928 |
| Total charges                     | 7,958 | 7,822 | 7,333 | 7,083 | 7,202 | 1,720 | 1,975 | 2,389 | 2,983 | 3,475 | 3,108 | 2,655 |
| <i>Charge law class</i>           |       |       |       |       |       |       |       |       |       |       |       |       |
| Felony                            | 1,808 | 1,755 | 1,780 | 1,588 | 1,540 | 939   | 660   | 1,155 | 1,668 | 2,130 | 1,701 | 1,319 |
| Misdemeanor                       | 836   | 842   | 774   | 706   | 722   | 356   | 331   | 360   | 458   | 405   | 378   | 246   |
| Petty offense                     | 5,313 | 5,222 | 4,777 | 4,789 | 4,937 | 350   | 197   | 214   | 196   | 249   | 197   | 154   |
| Traffic                           | -     | -     | -     | -     | -     | 75    | 786   | 658   | 660   | 691   | 828   | 935   |
| Unknown                           | 1     | 2     | 1     | -     | 3     | -     | 1     | 2     | 1     | -     | 4     | 1     |
| <i>Charge category</i>            |       |       |       |       |       |       |       |       |       |       |       |       |
| Conspiracy                        | 74    | 100   | 132   | 177   | 151   | 113   | 61    | 102   | 162   | 234   | 91    | 96    |
| Manufacture                       | 317   | 334   | 495   | 501   | 498   | 165   | 149   | 343   | 616   | 711   | 673   | 606   |
| Distribution                      | 313   | 276   | 347   | 327   | 338   | 314   | 188   | 251   | 352   | 385   | 262   | 168   |
| Possession with intent            | 596   | 613   | 494   | 449   | 394   | 245   | 223   | 404   | 535   | 708   | 650   | 450   |
| Possession                        | 6,615 | 6,455 | 5,792 | 5,546 | 5,721 | 702   | 411   | 458   | 479   | 525   | 466   | 310   |
| Public consumption                | 27    | 40    | 55    | 79    | 82    | 101   | 153   | 142   | 140   | 197   | 115   | 69    |
| Possession under 21               | -     | -     | -     | -     | -     | -     | 3     | 25    | 31    | 17    | 14    | 17    |
| Other                             | 16    | 4     | 18    | 4     | 18    | 5     | -     | 4     | 7     | 7     | 5     | 3     |
| Possession-consumption in vehicle | -     | -     | -     | -     | -     | 75    | 787   | 660   | 661   | 691   | 832   | 936   |

Source: Colorado State Judicial Branch. Analyzed by the Division of Criminal Justice.

Note: The Denver County Court, which handles misdemeanors and petty offenses in the City and County of Denver, does not report filings to the State Judicial Branch so this information is not available here.



**Appendix E, Table 8. Marijuana court filings, by gender, 2008–2017**

|                                   | 2008  | 2009  | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-----------------------------------|-------|-------|------|------|------|------|------|------|------|------|
| <b>Female</b>                     |       |       |      |      |      |      |      |      |      |      |
| Total cases                       | 1965  | 1792  | 1726 | 1719 | 1787 | 706  | 859  | 1013 | 960  | 1129 |
| Total charges                     | 3020  | 2294  | 1896 | 1873 | 1936 | 803  | 989  | 1303 | 1285 | 1519 |
| <i>Charge law class</i>           |       |       |      |      |      |      |      |      |      |      |
| Felony                            | 269   | 285   | 247  | 199  | 192  | 126  | 60   | 174  | 210  | 293  |
| Misdemeanor                       | 199   | 191   | 180  | 155  | 135  | 88   | 96   | 82   | 116  | 108  |
| Petty offense                     | 2552  | 1816  | 1469 | 1519 | 1609 | 560  | 635  | 875  | 793  | 947  |
| Traffic                           | 0     | 0     | 0    | 0    | 0    | 29   | 198  | 172  | 166  | 171  |
| <i>Charge category</i>            |       |       |      |      |      |      |      |      |      |      |
| Conspiracy                        | 10    | 29    | 20   | 17   | 16   | 22   | 8    | 16   | 31   | 35   |
| Manufacture                       | 53    | 60    | 59   | 61   | 62   | 30   | 16   | 59   | 65   | 89   |
| Distribution                      | 48    | 59    | 50   | 54   | 44   | 43   | 39   | 54   | 65   | 72   |
| Possession with intent            | 88    | 82    | 76   | 54   | 55   | 27   | 26   | 57   | 76   | 106  |
| Possession                        | 1786  | 1715  | 1662 | 1640 | 1708 | 614  | 484  | 241  | 154  | 161  |
| Public consumption                | 28    | 33    | 26   | 46   | 49   | 37   | 58   | 40   | 27   | 50   |
| Possession under 21               | 0     | 0     | 0    | 0    | 0    | 0    | 160  | 664  | 700  | 835  |
| Other                             | 1007  | 316   | 3    | 1    | 1    | 1    | 0    | 0    | 0    | 0    |
| Possession-consumption in vehicle | 0     | 0     | 0    | 0    | 1    | 29   | 198  | 172  | 167  | 171  |
| <b>Male</b>                       |       |       |      |      |      |      |      |      |      |      |
| Total cases                       | 9748  | 9085  | 8348 | 8048 | 8114 | 3315 | 3724 | 3888 | 3933 | 4125 |
| Total charges                     | 15099 | 11898 | 9580 | 9216 | 9276 | 4001 | 4482 | 5181 | 5576 | 5868 |
| <i>Charge law class</i>           |       |       |      |      |      |      |      |      |      |      |
| Felony                            | 1957  | 1957  | 1845 | 1580 | 1502 | 953  | 630  | 986  | 1423 | 1645 |
| Misdemeanor                       | 999   | 968   | 873  | 785  | 790  | 502  | 591  | 490  | 479  | 474  |
| Petty offense                     | 12142 | 8968  | 6860 | 6848 | 6981 | 2481 | 2468 | 3010 | 3018 | 3072 |
| Traffic                           | 0     | 0     | 0    | 0    | 0    | 65   | 790  | 693  | 655  | 677  |
| Unknown                           | 1     | 3     | 1    | 1    | 3    | 0    | 3    | 2    | 1    | 0    |
| <i>Charge category</i>            |       |       |      |      |      |      |      |      |      |      |
| Conspiracy                        | 85    | 113   | 156  | 191  | 152  | 97   | 63   | 90   | 146  | 195  |
| Manufacture                       | 264   | 270   | 404  | 395  | 403  | 129  | 125  | 260  | 495  | 545  |
| Distribution                      | 389   | 381   | 400  | 374  | 391  | 351  | 261  | 263  | 281  | 311  |
| Possession with intent            | 731   | 740   | 566  | 488  | 408  | 301  | 258  | 407  | 529  | 623  |
| Possession                        | 8829  | 8679  | 7885 | 7615 | 7748 | 2847 | 2165 | 1047 | 728  | 674  |
| Public consumption                | 80    | 119   | 149  | 148  | 156  | 203  | 253  | 172  | 138  | 180  |
| Possession under 21               | 0     | 0     | 0    | 0    | 0    | 3    | 565  | 2244 | 2600 | 2652 |
| Other                             | 4721  | 1596  | 20   | 4    | 9    | 4    | 1    | 2    | 3    | 4    |



**Appendix E, Table 8. Marijuana court filings, by gender, 2008–2017**

|                                       | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|
| Possession-<br>consumption in vehicle | 0    | 0    | 0    | 1    | 9    | 66   | 791  | 696  | 656  | 684  |

Source: Colorado State Judicial Branch. Analyzed by the Division of Criminal Justice.

Note: The Denver County Court, which handles misdemeanors and petty offenses in the City and County of Denver, does not report filings to the State Judicial Branch so these data are not available here. Felony filings from Denver District Court are included in these data.

## APPENDIX F

### CERTIFIED DRUG RECOGNITION EXPERTS, BY AGENCY

**Appendix F, Table 9. Certified drug recognition experts, by agency, 2020**

| Agency                                  | N<br>certified |
|---|----------------|
| Adams County Sheriff's Office           | 2              |
| Arapahoe County Sheriff's Office        | 3              |
| Arvada Police Department                | 2              |
| Aurora Police Department                | 9              |
| Avon Police Department                  | 2              |
| Basalt Police Department                | 1              |
| Boulder Police Department               | 1              |
| Breckenridge Police Department          | 1              |
| Brighton Police Department              | 2              |
| Broomfield Police Department            | 2              |
| Buena Vista Police Department           | 1              |
| Canon City PD                           | 1              |
| Carbondale Police Department            | 2              |
| Castle Rock Police Department           | 2              |
| Clear Creek County Sheriff's Office     | 1              |
| Colorado Mental Health Institute        | 1              |
| Colorado Parks and Wildlife             | 1              |
| Colorado Springs Police Department      | 8              |
| Colorado State Patrol                   | 60             |
| Commerce City Police Department         | 2              |
| CU Boulder Police                       | 1              |
| Denver Police Department                | 25             |
| Douglas County Sheriff's Office         | 1              |
| Eagle County Sheriff's Office           | 2              |
| El Paso County Sheriff's Office         | 2              |
| Englewood Police Department             | 3              |
| FBI - No local PD, Formerly Loveland PD | 1              |
| Fort Collins Police Services            | 2              |
| Fort Lupton Police Department           | 1              |
| Fountain Police Department              | 3              |
| Fraser Winter Park Police Department    | 1              |
| Frederick Police Department             | 1              |
| Fremont County Sheriff's Office         | 2              |
| Garfield County Sheriff's Office        | 3              |
| Gilpin County Sheriff's Office          | 1              |
| Glenwood Springs Police Department      | 2              |



**Appendix F, Table 9. Certified drug recognition experts, by agency, 2020**

| Agency                            | N certified |
|-----------------------------------|-------------|
| Golden Police Department          | 1           |
| Grand Junction Police Department  | 1           |
| Greeley Police Department         | 3           |
| Gunnison County Sherriff's Office | 1           |
| Gunnison Police Department        | 1           |
| Jefferson County Sheriff's Office | 1           |
| Lafayette Police Department       | 3           |
| Lakewood Police Department        | 3           |
| Larimer County Sheriff's Office   | 1           |
| Littleton Police Department       | 1           |
| Logan County Sheriff's Office     | 2           |
| Longmont Police Department        | 4           |
| Loveland Police Department        | 6           |
| Montezuma County Sheriff's Office | 1           |
| Montrose Police Department        | 1           |
| Northglenn Police Department      | 1           |
| Oak Creek Police Department       | 1           |
| Pagosa Springs Police Department  | 1           |
| Parachute Police Department       | 1           |
| Park County Sheriff's Office      | 2           |
| Parker Police Department          | 4           |
| Pitkin County Sheriff's Office    | 1           |
| Pueblo County Sheriff's Office    | 2           |
| Pueblo Police Department          | 2           |
| Rangely Police Department         | 1           |
| Rifle Police Department           | 1           |
| Salida Police Department          | 1           |
| Sterling Police Department        | 1           |
| Thornton Police Department        | 6           |
| USAFA 10 Security Forces Squadron | 1           |
| Vail Police Department            | 1           |
| Weld County Sheriff's Office      | 1           |
| Westminster Police Department     | 5           |
| Windsor Police Department         | 1           |
| Woodland Park Police Department   | 2           |
| Grand total                       | 221         |

Source: Colorado Department of Transportation, Drug Recognition Experts Program.



**APPENDIX G**  
**MARIJUANA BUSINESS LICENSEES, BY COUNTY**

**Appendix G, Table 10. Number of licensed medical premises, by premise type and county, 2020**

| County      | Medical Store | Medical Cultivation | Medical MIP | Medical delivery | Medical operator | Medical R&D | Medical testing | Medical transporter | Medical total |
|-------------|---------------|---------------------|-------------|------------------|------------------|-------------|-----------------|---------------------|---------------|
| Adams       | 8             | 11                  | 5           |                  | 1                |             | 1               | -                   | 26            |
| Alamosa     | 2             | 2                   |             |                  |                  |             |                 | -                   | 4             |
| Arapahoe    | 7             | 13                  | 3           |                  |                  |             |                 | -                   | 23            |
| Archuleta   |               |                     |             |                  |                  |             |                 | -                   | -             |
| Bent        | 1             | 1                   |             |                  |                  |             |                 | -                   | 2             |
| Boulder     | 20            | 42                  | 19          | 6                |                  |             | 1               | -                   | 88            |
| Chaffee     | 1             | 3                   | 1           |                  |                  |             |                 | -                   | 5             |
| Clear Creek | 2             | 5                   | 4           |                  |                  |             |                 | -                   | 11            |
| Conejos     |               |                     |             |                  |                  |             |                 | -                   | -             |
| Costilla    | 1             | 3                   |             |                  |                  |             |                 | -                   | 4             |
| Crowley     |               | 6                   | 2           |                  |                  |             |                 | -                   | 8             |
| Delta       | 1             | 1                   |             |                  |                  |             |                 | -                   | 2             |
| Denver      | 161           | 364                 | 83          |                  | 4                | 1           | 5               | 5                   | 623           |
| Douglas     |               |                     |             |                  | 2                |             |                 | -                   | 2             |
| Eagle       | 5             | 8                   | 1           |                  |                  |             |                 | -                   | 14            |
| El Paso     | 124           | 242                 | 43          |                  |                  |             |                 | 1                   | 410           |
| Fremont     | 3             | 11                  |             |                  |                  |             |                 | -                   | 14            |
| Garfield    | 5             | 8                   | 3           |                  |                  |             |                 | -                   | 16            |
| Gilpin      | 1             | 1                   |             |                  |                  |             |                 | -                   | 2             |
| Grand       | 1             | 2                   | 2           |                  |                  |             |                 | -                   | 5             |
| Gunnison    |               |                     |             |                  |                  |             |                 | -                   | -             |
| Huerfano    | 1             | 2                   | 1           |                  |                  |             |                 | -                   | 4             |
| Jefferson   | 24            | 31                  | 7           |                  |                  |             | 1               | -                   | 63            |
| La Plata    | 2             | 3                   | 1           |                  |                  |             | 1               | -                   | 7             |
| Lake        |               |                     |             |                  |                  |             |                 | -                   | -             |
| Larimer     | 15            | 28                  | 2           |                  |                  |             |                 | -                   | 45            |
| Las Animas  | 3             | 7                   | 3           |                  |                  |             |                 | -                   | 13            |
| Mesa        | 1             | 3                   | 1           |                  |                  |             |                 | -                   | 5             |
| Moffat      | 3             | 3                   |             |                  |                  |             |                 | -                   | 6             |
| Montezuma   | 3             | 4                   |             |                  |                  |             |                 | -                   | 7             |
| Montrose    | 2             | 4                   |             |                  |                  |             |                 | -                   | 6             |
| Morgan      | 1             | 3                   | 2           |                  |                  |             |                 | -                   | 6             |
| Otero       | 2             | 2                   |             |                  |                  |             |                 | -                   | 4             |
| Ouray       | 1             | 2                   |             |                  |                  |             |                 | -                   | 3             |
| Park        | 1             | 2                   | 4           |                  |                  |             |                 | -                   | 7             |
| Pitkin      | 1             | 2                   |             |                  |                  |             |                 | -                   | 3             |
| Pueblo      | 16            | 45                  | 20          |                  |                  |             | 1               | -                   | 82            |
| Rio Grande  |               |                     |             |                  |                  |             |                 | -                   | -             |
| Routt       | 3             | 9                   | 4           |                  |                  |             |                 | -                   | 16            |
| Saguache    | 1             | 7                   | 2           |                  |                  |             |                 | -                   | 10            |
| San Juan    |               |                     |             |                  |                  |             |                 | -                   | -             |
| San Miguel  | 1             | 2                   | 1           |                  |                  |             |                 | -                   | 4             |
| Sedgwick    | 1             | 2                   |             |                  |                  |             |                 | -                   | 3             |
| Summit      | 3             | 5                   |             |                  |                  |             |                 | -                   | 8             |
| Weld        | 3             | 5                   | 2           |                  |                  |             |                 | -                   | 10            |
| Total       | 431           | 894                 | 216         | 6                | 7                | 1           | 10              | 6                   | 1,571         |

Source: Colorado Department of Revenue, Marijuana Enforcement Division. MED Licensee Information, at <https://sbg.colorado.gov/med-licensed-facilities>



**Appendix G, Table 11. Number of licensed retail premises, by premise type and county, 2020**

| County      | Retail store | Retail cultivation | Retail MIP | Retail operator | Retail testing | Retail transporter | Hospitality Business | Retail total |
|-------------|--------------|--------------------|------------|-----------------|----------------|--------------------|----------------------|--------------|
| Adams       | 26           | 9                  | 11         | 1               | 1              | -                  | -                    | 48           |
| Alamosa     | -            | -                  | -          | -               | -              | -                  | -                    | -            |
| Arapahoe    | 32           | 22                 | 17         | -               | -              | -                  | -                    | 71           |
| Archuleta   | 6            | 7                  | 1          | -               | -              | -                  | -                    | 14           |
| Bent        | 5            | -                  | -          | -               | -              | -                  | -                    | 5            |
| Boulder     | 53           | 57                 | 26         | -               | 1              | 2                  | -                    | 139          |
| Chaffee     | 3            | 3                  | 1          | -               | -              | -                  | -                    | 7            |
| Clear Creek | 10           | 9                  | 5          | -               | -              | -                  | -                    | 24           |
| Conejos     | 3            | 2                  | -          | -               | -              | -                  | -                    | 5            |
| Costilla    | 4            | 6                  | -          | -               | -              | -                  | -                    | 10           |
| Crowley     | 2            | 33                 | 4          | -               | -              | -                  | -                    | 39           |
| Delta       | -            | -                  | -          | -               | -              | -                  | -                    | -            |
| Denver      | 186          | 210                | 111        | 4               | 5              | 7                  | 1                    | 524          |
| Douglas     | -            | -                  | -          | 2               | -              | -                  | -                    | 2            |
| Eagle       | 10           | 5                  | 1          | -               | -              | -                  | -                    | 16           |
| El Paso     | 2            | 1                  | -          | -               | -              | 1                  | 2                    | 6            |
| Fremont     | -            | -                  | -          | -               | -              | -                  | -                    | -            |
| Garfield    | 24           | 13                 | 10         | -               | -              | -                  | -                    | 47           |
| Gilpin      | 7            | 1                  | -          | -               | -              | -                  | -                    | 8            |
| Grand       | 6            | 1                  | 2          | -               | -              | -                  | -                    | 9            |
| Gunnison    | 15           | 8                  | 3          | -               | -              | -                  | -                    | 26           |
| Huerfano    | 5            | 12                 | 2          | -               | -              | 1                  | -                    | 20           |
| Jefferson   | 17           | 5                  | 7          | -               | 1              | -                  | -                    | 30           |
| La Plata    | 13           | 5                  | 3          | -               | 1              | -                  | -                    | 22           |
| Lake        | 3            | 4                  | 1          | -               | -              | -                  | -                    | 8            |
| Larimer     | 14           | 15                 | 4          | -               | -              | -                  | -                    | 33           |
| Las Animas  | 26           | 18                 | 7          | -               | -              | -                  | -                    | 51           |
| Mesa        | 6            | 3                  | 2          | -               | -              | -                  | -                    | 11           |
| Moffat      | 9            | 1                  | -          | -               | -              | -                  | -                    | 10           |
| Montezuma   | 10           | 6                  | 1          | -               | -              | -                  | -                    | 17           |
| Montrose    | 3            | 2                  | -          | 1               | -              | -                  | -                    | 6            |
| Morgan      | 4            | 3                  | 2          | -               | -              | -                  | -                    | 9            |
| Otero       | 3            | -                  | -          | -               | -              | -                  | -                    | 3            |
| Ouray       | 3            | 3                  | -          | -               | -              | -                  | -                    | 6            |
| Park        | 7            | 7                  | 5          | -               | -              | -                  | -                    | 19           |
| Pitkin      | 10           | 1                  | -          | -               | -              | -                  | -                    | 11           |
| Pueblo      | 40           | 138                | 33         | 1               | 1              | -                  | -                    | 213          |
| Rio Grande  | 1            | -                  | -          | -               | -              | -                  | -                    | 1            |
| Routt       | 5            | 12                 | 6          | -               | -              | -                  | -                    | 23           |
| Saguache    | 4            | 71                 | 16         | -               | -              | -                  | -                    | 91           |
| San Juan    | 3            | 4                  | 1          | -               | -              | -                  | -                    | 8            |
| San Miguel  | 5            | 3                  | 1          | -               | -              | -                  | -                    | 9            |
| Sedgwick    | 3            | 1                  | -          | -               | -              | -                  | -                    | 4            |
| Summit      | 10           | 5                  | 2          | -               | -              | -                  | -                    | 17           |
| Weld        | 5            | 5                  | 3          | -               | -              | 1                  | -                    | 14           |
| Total       | 603          | 711                | 288        | 9               | 10             | 12                 | 3                    | 1,636        |

Source: Colorado Department of Revenue, Marijuana Enforcement Division. MED Licensee Information, at <https://sbg.colorado.gov/med-licensed-facilities>

