MARIJUANA TRENDS, SCIENCE AND UPDATES 2015



River Coyote MPH August 27, 2015

Limited evidence of therapeutic efficacy of medical marijuana

Condition	Level of Evidence
Chemotherapy induced Nausea and Vomiting in Adults	Modest evidence ¹
Chronic Pain	Insufficient evidence ²
HIV/Aids and Anorexia associated with Aids	Insufficient evidence ³
Neurological Problems	Insufficient evidence ⁴

*Not one single study has ever included children

- Borgelt LM, Franson KL, Nussbaum AM, Wang GS. The pharmacologic and clinical effects of medical cannabis. Pharmacotherapy. 2013;33(2):195–209...
- Martín-Sánchez E, Furukawa TA, Taylor J, Martin JLR. Systematic review and meta-analysis of cannabis treatment for chronic pain.
- 3. Lutge EE, Gray A, Siegfried N. The medical use of cannabis for reducing morbidity and mortality in patients with HIV/AIDS. Cochrane database Syst. Rev..
- Koppel BS, Brust JCM, Fife T, et al. Systematic review: efficacy and safety of medical marijuana in selected neurologic disorders: report of the Guideline Development Subcommittee of the American Academy of Neurology. Neurology. 2014;82(17):1556–63.

The NEW ENGLAND JOURNAL of MEDICINE

REVIEW ARTICLE

Dan L. Longo, M.D., Editor

Adverse Health Effects of Marijuana Use

Nora D. Volkow, M.D., Ruben D. Baler, Ph.D., Wilson M. Compton, M.D., and Susan R.B. Weiss, Ph.D.

June 2014

Table: "Clinical Conditions with Symptoms that May be Relieved by Treatment with Marijuana or Other Cannabinoids"

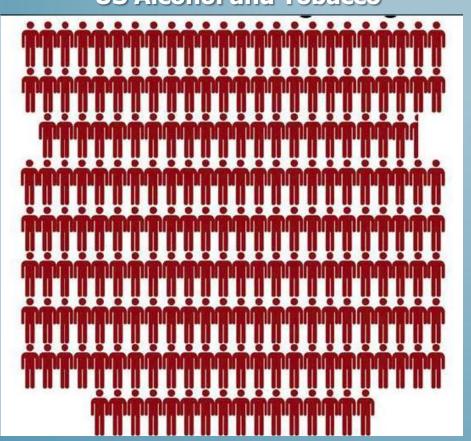
http://coleman-pediatrics.com/marijuana_article.pdf http://www.nejm.org/doi/full/10.1056/nejmra1402309

TODAY

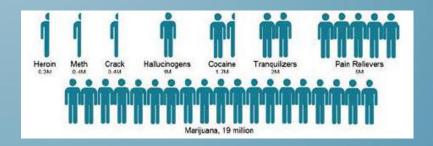
- Use Rates and Trends
- Science of Marijuana: is it Addictive?
- Marijuana 101: body and brain
- Established Harms/New Findings
- Marijuana and Potency
- Legalization Vs. Decriminalization
- Data: What has happened in Colorado since 2012

MARIJUANA IS THE MOST WIDELY USED ILLICIT DRUG WORLDWIDE* 147,000,000 (2.5%) (1 IN 40)

US Alcohol and Tobacco



US All Other illicit drugs



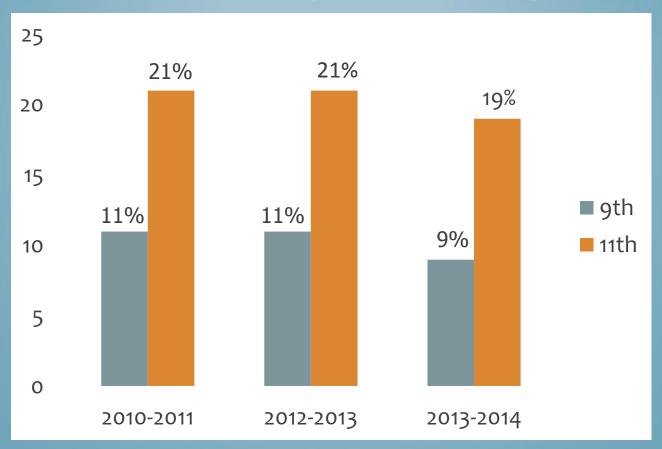
Past Month Usage by 12 to 17-Year-Olds in Medical Marijuana States, 2013





TTUSD

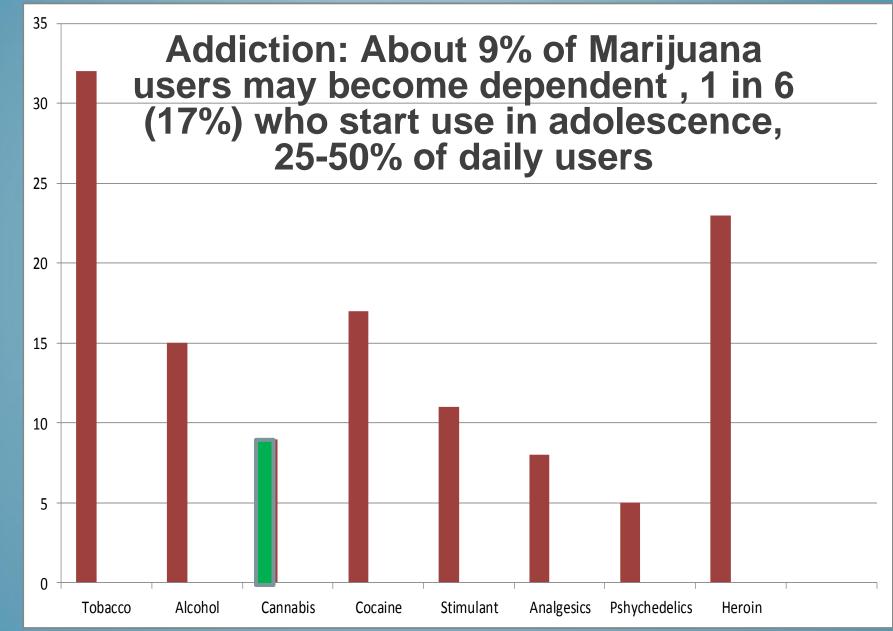
Placer County Western Slope



Marijuana use past 30 days - 9th & 11th graders

*CPY 2013 School Survey; CHKS 2009-2013.

SCIENCE OF MARIJUANA: IS IT ADDICTIVE?



MARIJUANA DETOX



Withdrawal Symptoms Reported

Depression

Anxiety, Irritability, Anger

Insomnia

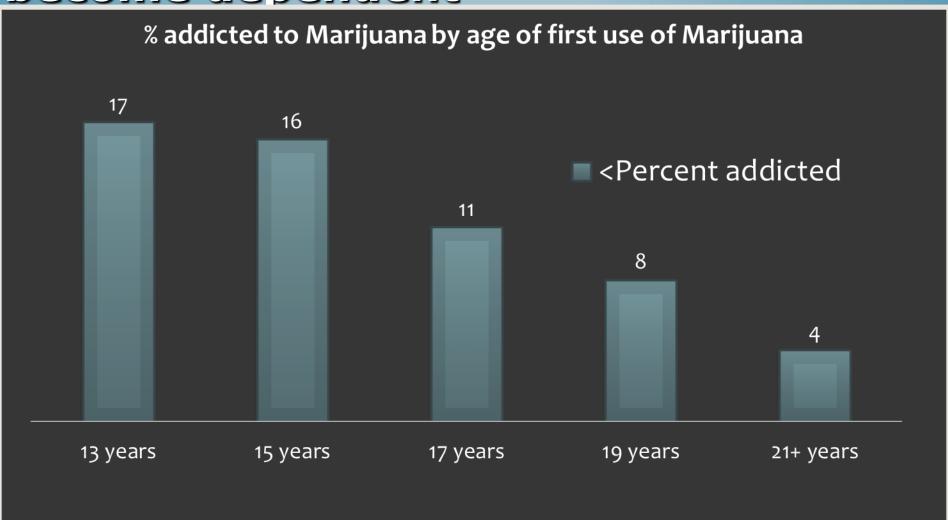
Appetite disturbance

Craving

Begin within 24 hours peak at 4-6 days, most subside by 3 weeks but can last up to 3 months – Impacts attempts to quit and motivation to seek other drugs for relief. **DSM-5** added Marijuana Withdrawal as a diagnosis. 2014 Mass General Hosptial study confirms withdrawal syndrome.

*Hall, W. and Degenhardt, L. (2009) Adverse health effects of non-medical cannabis use The Lancet (374) 1383-1391

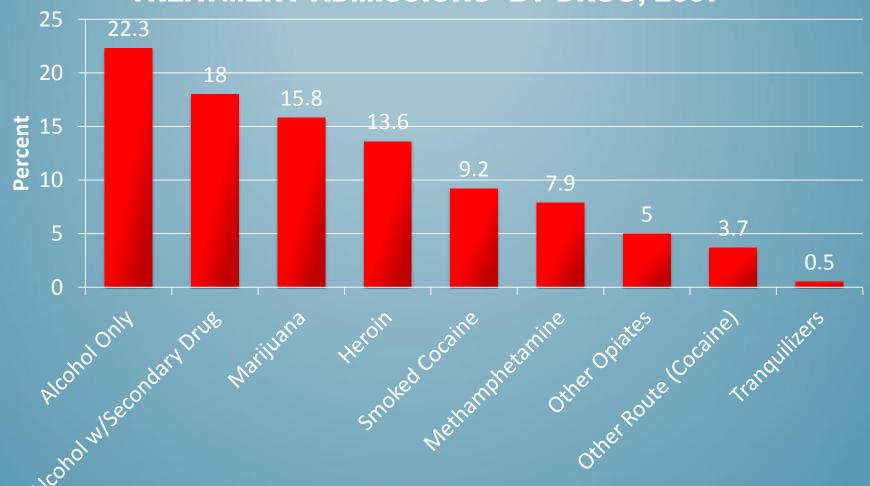
The earlier people begin using marijuana, the more likely they are to become dependent



Wintersa, Ken C, * and Chih-Yuan S. Leea Likelihood of developing an alcohol and cannabis use disorder during youth: Association with recent use and age *Drug Alcohol Depend*. 2008 January 1; 92(1-3): 239–247. doi:10.1016/j.drugalcdep.2007.08.005.

MARIJUANA IS SECOND MOST COMMONLY ABUSED DRUG THAT PEOPLE SEEK TREATMENT FOR

TREATMENT ADMISSIONS BY DRUG, 2007



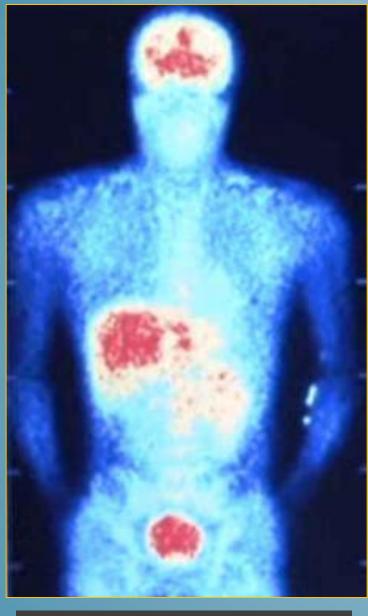
MARIJUANAIS THE #1 DRUG THAT TEENS SEEK TREATMENT FOR

2014: 68 Teens Were in Placer County Drug Treatment (Does not include private treatment)

Their drug of choice was:

61% Marijuana
14% Alcohol
13% Methamphetamine
3% Herion
3% Oxycotin (Pills)
1.5% other

Marijuana 101 (What we know):



MRI scan of cellular cannabinoid reception image at BBC 2009
Cannabis the evil weed?

When Used, Marijuana is Concentrated in the: Brain Liver Pancreas Kidney Skin **Prostate** Sex organs (Testes Cervix)

May stay in the body up to 5 weeks₁₆

MARIJUANA CONTAINS 421 CHEMICALS



4 THAT ARE PSYCHOACTIVE (IMPACT THE BRAIN)

1 THAT IS RESPONSIBLE FOR GETTING A PERSON HIGH=THC (DELTA -9-TETRAHYDROCANNABINOL)

Cannabinoids in Marijuana

- delta-9-tetrahydrocannabinol (THC)
- delta-8-tetrahydrocannabinol
- cannabidiol
- cannabinol
- cannabichromene
- cannabigerol
- More than 100 in total

Source: Mechoulam R, Hanus L, The cannabinoid system from the point of view of a chemist. In *Marijuana and Madness*. ed. Castle, Murray. Cambridge University Press, 2004

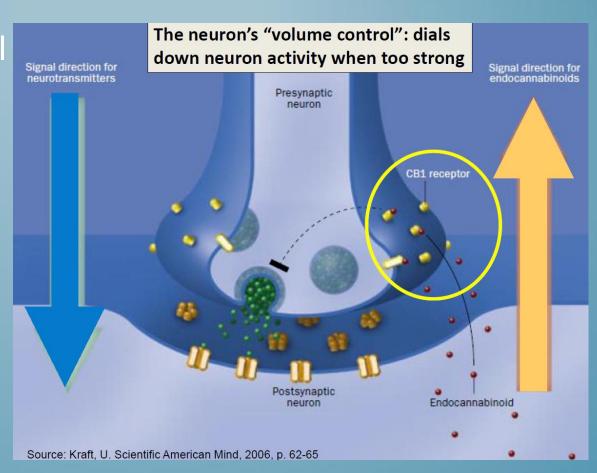
ENDOCANNABINOID SYSTEM

Regulation of neuronal activity:

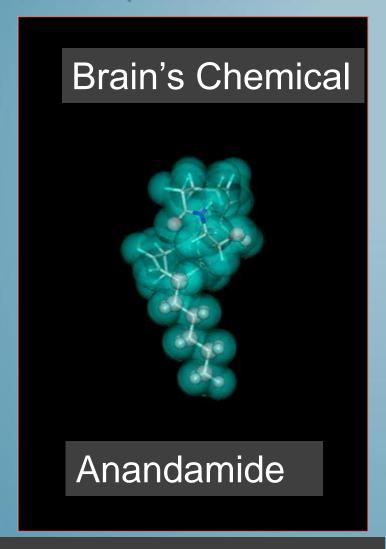
Activates or supresses neurotransmitters

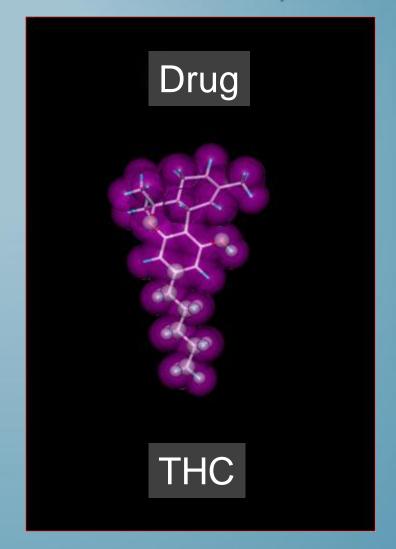
Effects those involved in neuronal growth

System most active: adolescence



MARIJUANA IS A CHEMICAL IMPOSTER (THC MIMICS A NATURAL BRAIN CHEMICAL)



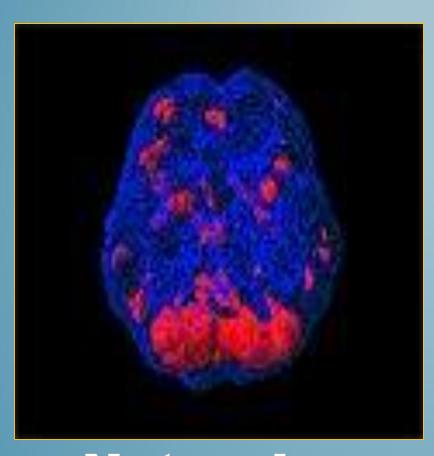


Role is to quiet the brain

THC vs. Anandamide

- Anandamide blocks the release of a number of neurotransmitters thereby reducing neuronal activity.
- THC has a MUCH STRONGER, LONGER effect than anandamide on brain cells.
- THC interferes with anandamide function hampering the innate homeostatic system in chronic marijuana users

Scan of Brain Activity

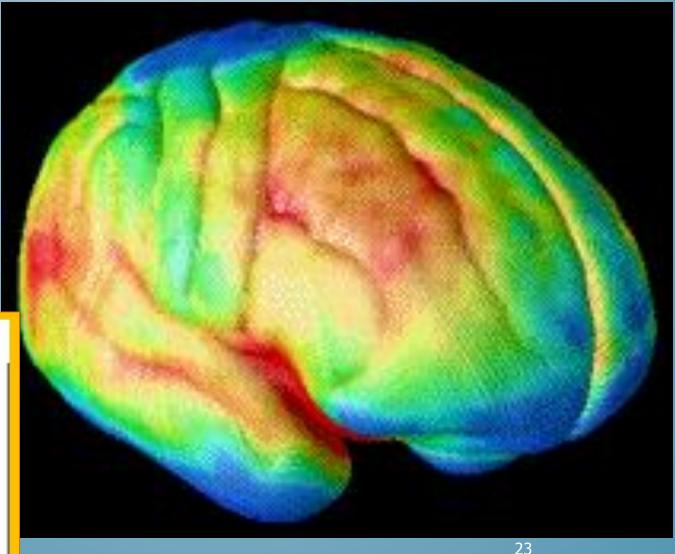


Not under influence





VIDEO: THE GROWING TEEN BRAIN 12-21 ANOS





WHERE THC CONCENTRATES IN THE BRAIN NEOCORTEX (BINDING SITES)

Responsible for higher cognitive functions and the integration of sensory information

BASAL GANGLIA
Involved in motor
control and
planning as well
as the initiation
and termination
of action

AMYGDALA Responsible for anxiety, emotion and fear

VENTRAL STRIATUM Involved in the prediction and feeling of reward BRAIN AND SPINAL CORD Important in the vomiting reflex and the sensation of pain

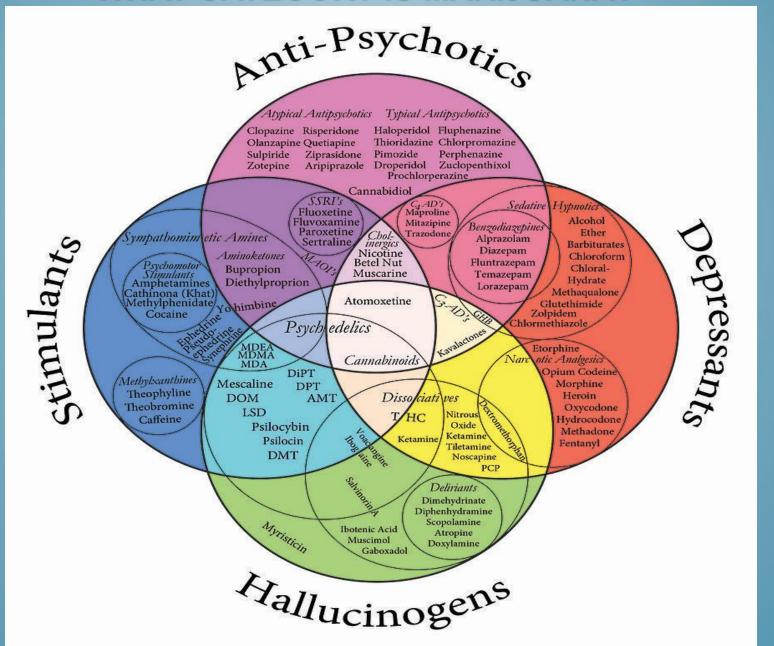
HYPOTHALAMUS Controls appetite, hormonal levels and sexual behavior

THO

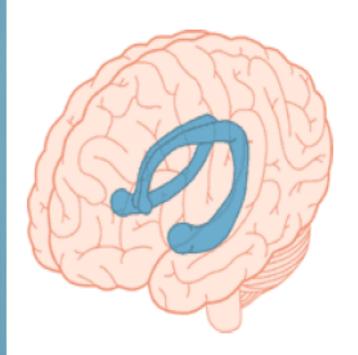
HIPPOCAMPUS
Important for
memory and the
learning of facts,
sequences and
places

CEREBELLUM
Center for motor
control and
coordination

WHAT CATEGORY IS MARIJUANA?



HIPPOCAMPUS= CONTROLS LEARNING AND MEMORY



- THC reduces hippocampal neuron activation
- With chronic THC exposure, neurons are gradually lost due to continual suppression
- THC users have <u>smaller</u> hippocampuses, and poorer memory

Source: Iversen L. How cannabis works in the brain. In *Marijuana and Madness*. Ed. Castle & Murray, 2004. Oxford University Press.

Marijuana is Neurotoxic to Adolescent Brain Developement

MOST SERIOUS HARMS ARE RELATED TO

DAILY OR REGULAR USE THAT BEGAN IN TEEN YEARS

HEAVY ADOLESCENT MARIJUANA USE AND COGNITIVE IMPAIRMENT

25 Year Study followed 1,037 People(from Ages 13-38)

- People who started as teens and smoked the most Marijuana saw an 8 point IQ Drop (LEAD=6 points)
- The more they used, and the younger they started, the more intelligence they lost
- People who did not use Marijuana did not see any IQ drop.





¹M.H. Meier, Avshalom Caspi, et al. 2012. "Persistent cannabis users show neuropsychological decline from childhood to midlife." Proceedings of the National Academy of Sciences

Heavy Adolescent Marijuana Use and Schizophrenia Diagnosis



50,000 army recruits Age 18

If used
Marijuana
more than 50
times by age
18 they were 2
x more likely
to develop
Schizophrenia
within 15
years

Cannabis consumption at age 18 and later risk of schizophrenia

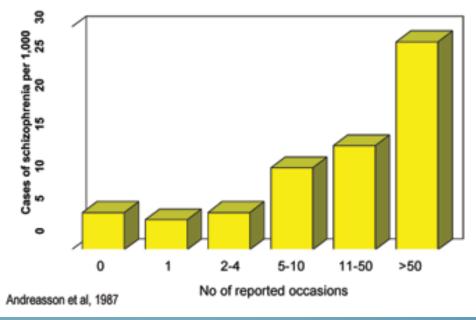
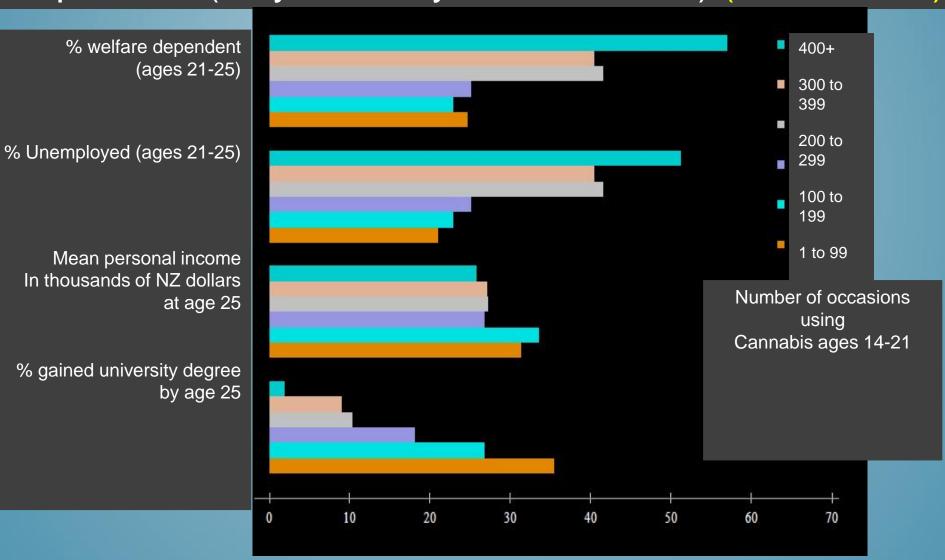


Image Above: <u>Source: Cannabis and schizophrenia</u>. A <u>longitudinal study of Swedish conscripts</u>, <u>Lancet</u>, <u>1987</u>)

Chronic Marijuana Use is Associated with Lower Life Satisfaction and Achievment

Fergusson and Boden. Addiction, 103, pp. 969-976, 2008 and Fergusson, D. M., L. J. Horwood, et al. (2003). "Cannabis and educational achievement." Addiction 98(12): 1681-92.

Marijuana Use and Later Life Outcomes are Dose Dependent (25 year study of birth cohort) (Association)



32

Source: Fergusson and Boden. Addiction, 103, pp. 969-976, 2008.

Marijuana use before driving doubles the risk of car crash



*Hall, W.. (2014) What has research over the past two decades revealed about the adverse health effects of recreational cannabis use Addiction, (110) 19-35

DRIVING IMPAIRMENT FROM WA STATE ADULT CONSUMERS GUIDE



Illegal to drive with <u>5 ng/ml of THC</u> or more in your blood if you are 21 or older

3 hours for some people to drop below 5 ng/ml after using marijuana

It is less risky to wait at <u>least 5 hours</u> before operating a vehicle. It is recommended that you <u>wait</u> <u>even longer after consuming edible marijuana</u> <u>products</u> as they can remain in your system much longer.

MORE KNOWN HARMS OF MARIJUANA USE

<u>Cardiovascular Disease</u> (<u>Chronic</u>)

4.8x heart attack risk

Irregular Heart Beats
Ministroke
Weakend Heart Muscles
(in young adults without other
risk factors related to smoking
marijuana)

Hormonal Effects (Chronic):

Decreased Testosterone
Testicular Shrinkage
Gynecomastia (Man Boobs)
Loss of Interest in Sex
2-3x Testicular Cancer

Other Chronic:

2x Chronic Bronchitis
Low Birthweight Babies
More Likely to Use Other Drugs
Cannabinoid Hypermesis
Syndrome: Severe Nausea,
Vomiting, Dehydration

Acute

Increased Heart Rate(20-100%)
Anxiety and Panic (naive users)
Psychosis (in large doses)
Impaired Decision Making
Cognitive Impairment
Motor Impairment (Accidents)

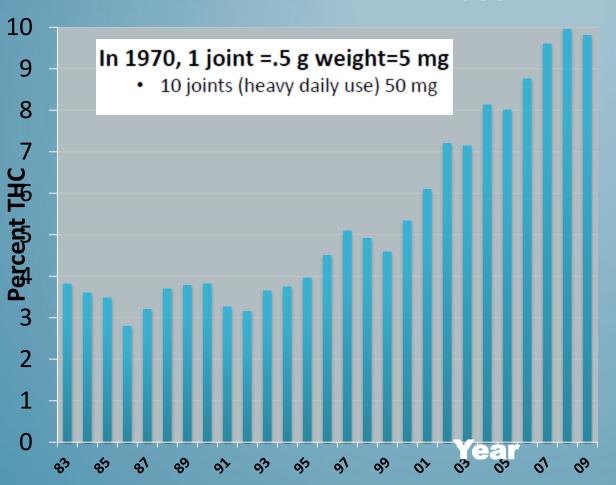
*Hall, W.. (2014) What has research over the past two decades revealed about the adverse health effects of recreational cannabis use Addiction, (110) 19-35

*Cannabinoid Hyperemesis: A Case Series of 98 Patients
Simonetto, Douglas A. et al. Mayo Clinic Proceedings, Volume 87, Issue 2, 114 119

Marijuana is Different High Potency

MARIJUANA IS 500% (5X) STRONGER THAN 1970'S

INCREASED THC CONTENT IN SEIZED MARIJUANA, 1983-2009



2015- AVG THC

- 16% WASHINGTON
- 18% COLORADO
- 2015 BOULDER CO, LOCAL
 DISPENSARIES DID NOT CARRY ANY LOWER THAN 25%

"But it's just a plant..." (80 to 90% THC) Concentrates "Green Crack" Wax "Ear Wax" Butane Hash Oil (BHO) "Budder" Hash Oil Capsules

https://youtu.be/7CjM4tlrPrM?t=1m58s

https://youtu.be/QM0r3t55-Rc

"Shatter"

High potency THC

Increases risk of psychosis

Br J Psychiatry. 2009 Dec;195(6):488-91

 Decreases age of onset psychosis Schizophr Bull. 2014 Nov;40(6):1509-17.

Impairs "creative thinking"
 Psychopharmacology (Berl). 2014 Oct 7.

100% THC OILS NOW AVAILABLE



SERVING SIZE FROM WA STATE ADULT CONSUMERS GUIDE

2-3 mg THC will get a new user high

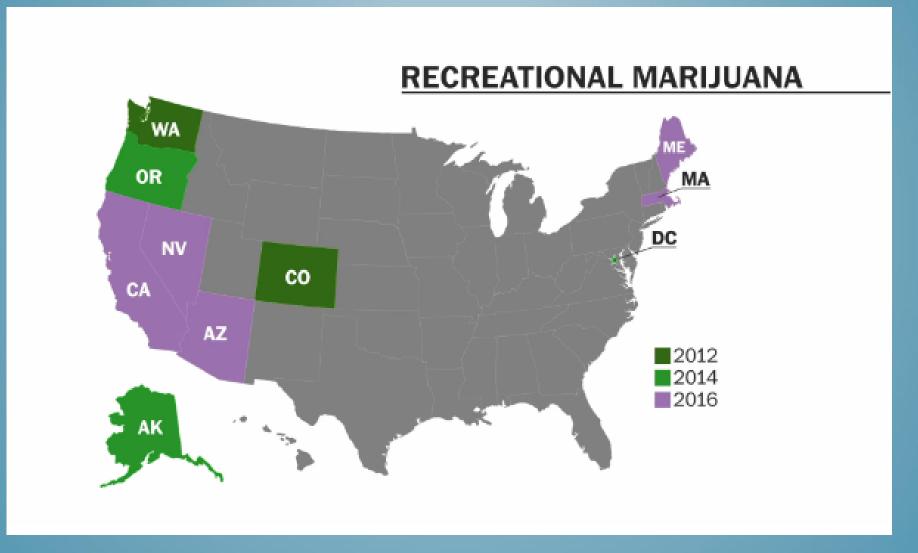


"It is especially important when consuming edibles to start with a low THC content and go slow. **It may take two hours or more to feel the effects**, New consumers should begin with <u>no more than 1-5 mg of THC.</u>

Today, users can get the same amount of THC from a single puff that consumers in the 1970s got from smoking an entire joint."

Decriminalization Vs. Legalization What's the Difference?

2015 LEGALIZATION LANDSCAPE



^{*23} States have some form of legalized Medical Marijuana



ADDICTIVE

LEGAL

Marijuana Legalization Vs. Decriminalization:

Decriminalization

- Marijuana remains illegal but punishment for possession and use are reduced to noncriminal offenses. (CA \$100 fine for < 1 oz)
- Intent: To discourage use, prohibit distribution.

Legalization

- Marijuana becomes a legal product that adults can buy and use and companies can market and sell
- Intent: To eliminate the black market, regulate sales, and collect taxes.

3 inevitable consequences to legalization = Product Innovation, Marketing Innovation and Lobbying

LEGALIZATION: PRODUCT, MARKETING, LOBBYING

1) <u>Product Innovation</u>: make them more appealing, addictive, and easier to use.



Ventilated Filters

Ventilation holes in the filters cause smokers to inhale more vigorously, drawing carcinogens more deeply into the lungs.

Flavorings

Added flavors like liquorice and chocolate mask the harshness of smoke and make products more appealing to new users, especially kids.

Tobacco-specific Nitrosamines

American-style cigarettes are made with blended tobacco that has much higher levels of cancer-causing nitrosamines.

Ammonia Compounds

Adding ammonia compounds increases the speed with which nicotine hits the brain.

Sugars and Acetaldehyde

Added sugars make tobacco smoke easier to inhale and form acetaldehyde, which enhances nicotine's addictive effects.

Levulinic Acid

Added organic acid salts reduce harshness of nicotine and make



VAPING MARIJUANA OIL: LESS HARSH, LESS SMELL, MORE POTENT, EASY TO CONCEAL







FAIR VA

CATAPULT









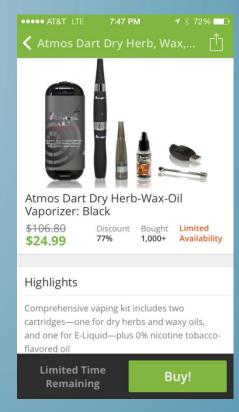
LEGALIZATION: MARKETING

2) Marketing Innovations: to increase the use of product, and the number of users. Expansion









https://youtu.be/7H8Cz9woC2A

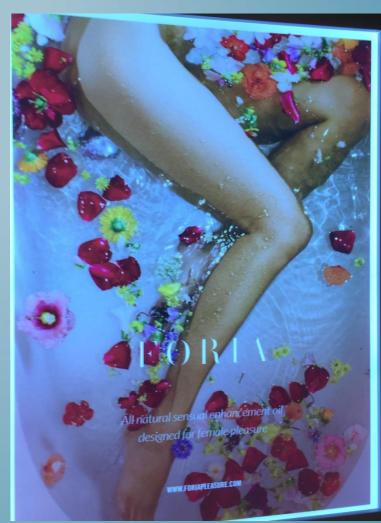
COLORADO RETAIL DISPENSARY: PRODUCT INNOVATION AND MARKETING



THC TOPICALS: FORIA



WOMEN' SEXUAL ENHANCEMENT SPRAY 10ML=\$50



NORMS AND MARKETING: COMMUNITY EVENTS IN COLORADO

June 6th
Puff Pass and Paint 420- Friendly
painting class 7-9pm \$50

June 7th
Get Fit, Stay Lit Yoga
One hour yoga class followed by an educational talk on vaporizers.
Hosted by Healthy Honey. 1-3pm \$25

June 10th-13th
Mixed Bag: Marijuana in the
Highlands Marijuana Culture and
commerce photo exhibit Colorado
Photographic Arts Center.

June 11-13th
CannaCon Consumer expo with optional education seminars \$15-\$125 10-5pm Colorado Convention Center,

June 13th

CORE: Marijuana & Health
Symposium: Medical symposium
covering scientific evidence, risks and
side effects associated with cannabis
use \$10 8am-noon. National Jewish
Health

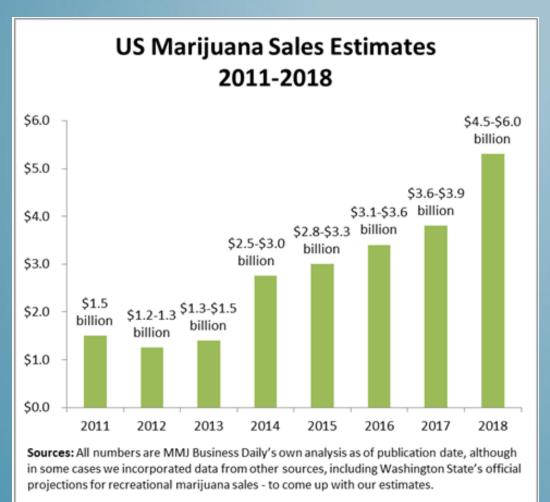
June 18th

Women Weed and Wellness Ladies night at Healthy Honeys. Learn about stress relieving, blemish- and wrinkle reducing cannabis strains and products for women. Snacks, Chakra Balancing. 10 min massage and Tarot card readings. \$42-50. 7pm-11pm.

June 21st
Sushi and Joint Rolling- Learn
two skills-the art of rolling sushi and
making perfect joints. \$65 4-6pm

LEGALIZATION:

2) Marketing Innovations: to increase the use of product, the number of users (Expand)



© 2013 MMJ Business Daily, an Anne Holland Ventures, Inc. publication. All rights reserved.

Stocks
Legal investors
Shareholders,

LEGALIZATION: LOBBYING

3) Lobbying: so they can change their product in any way and can be protected from meaningful public health efforts to reduce harm.





Welfare Cash for Weed in Colorado

"Use of public assistance cards OK at marijuana shops"

The Associated Press, January 16, 2014



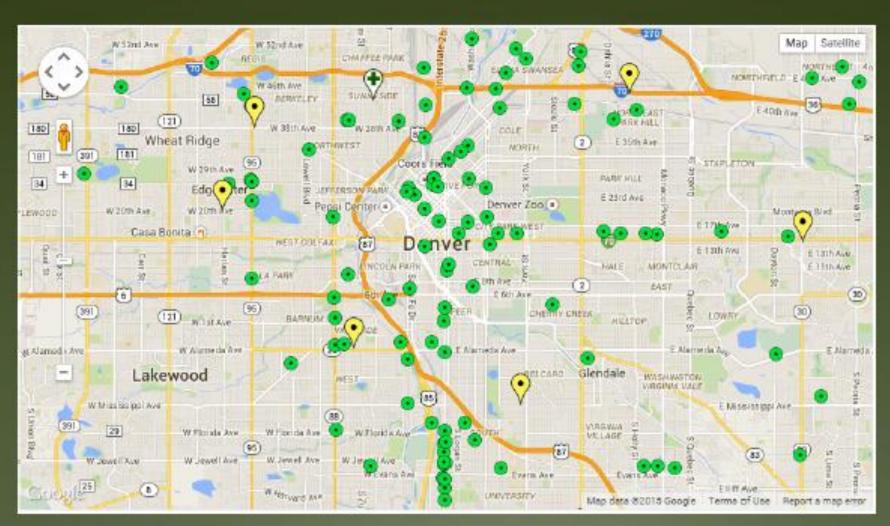
259 transactions for \$23,609 in cash

> National Review July 22, 2014



WHATS HAPPENING IN COLORADO?

Number & Density of MJ Outlets will Subtly Influence Social Norms



Perspective

- Colorado...
 - ✓ Medical Marijuana Centers = 497
 - ✓ Recreational Marijuana Stores = 369
 - ✓ Starbucks Coffee = 405
 - \checkmark McDonalds = 227

Licensed Marijuana Businesses

Medical Marijuana (January 1, 2015)

- 497 licensed dispensaries
- 748 marijuana cultivation facilities
- 163 infused products (edibles) businesses

Recreational Marijuana (January 1, 2015)

- 369 licensed marijuana retail stores
- 397 licensed marijuana cultivation facilities
- 98 licenses for infused product (edibles) businesses

Denver: The Mile HIGH City



198 Licensed Medical Marijuana Centers

117 Pharmacies



Pot and Colorado Tourism

"Ski stoned, be chauffeured in a limo and the pot and munchies are included in the \$1,200 cost: Weed tourism hits Colorado slopes"

> Daily Mail Reporter December 27, 2013



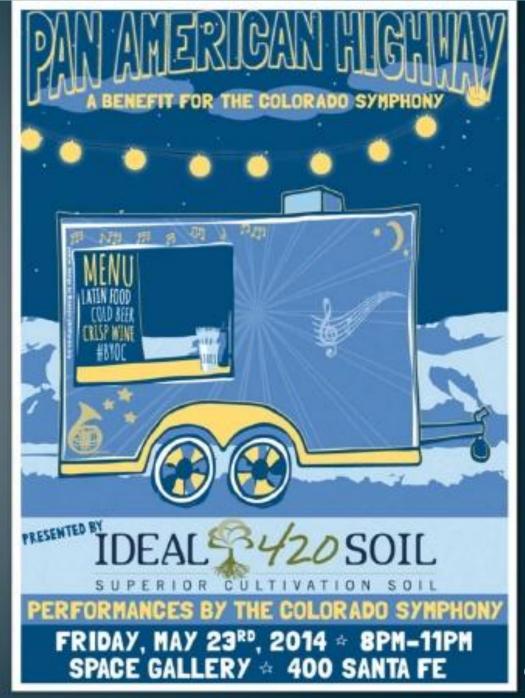
Pot and Colorado Tourism

"Roll up for the county fair: Denver offers joint-rolling contests and prizes for the biggest marijuana plant at summer show"

> The Associated Press, January 28, 2014



Colorado
Symphony
Orchestra:
"Classically
Cannabis:
The High Note
Series"



Access & Availability: Higher Prices Mean Less Use

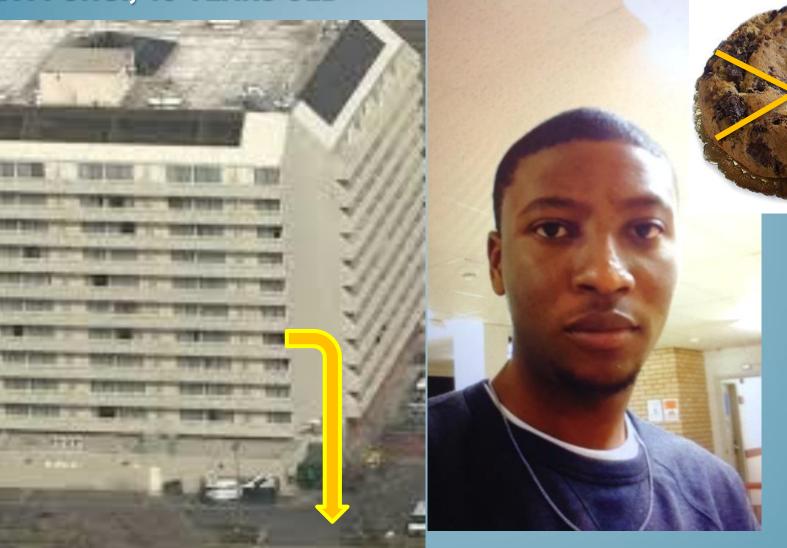
Marijuana Industry Claim: Taxing marijuana will keep most users in the black market



- * \$53: average price per 1/8 ounce in Denver Jan 2014
- * \$49: average price per 1/8 ounce in Denver Dec 2014 (9% decrease)
- \$40: average price per 1/8 ounce from unlicensed Colorado sellers*
- \$10-15: predicted average price per 1/8 ounce once market stabilizes*

COLLERATAL DAMAGE IN COLORADO?

LEVI PONGI, 19 YEARS OLD



The medical examiner's office tested Pongi's body for over 250 different substances. His blood tested positive for only THC. He had 7.2ng/ml of THC in his blood.

MARIJUANA EDIBLES BLAMED FOR TULSA MAN'S DEATH IN COLORADO *POSTED: MAR 27, 2015* CBS NEWS

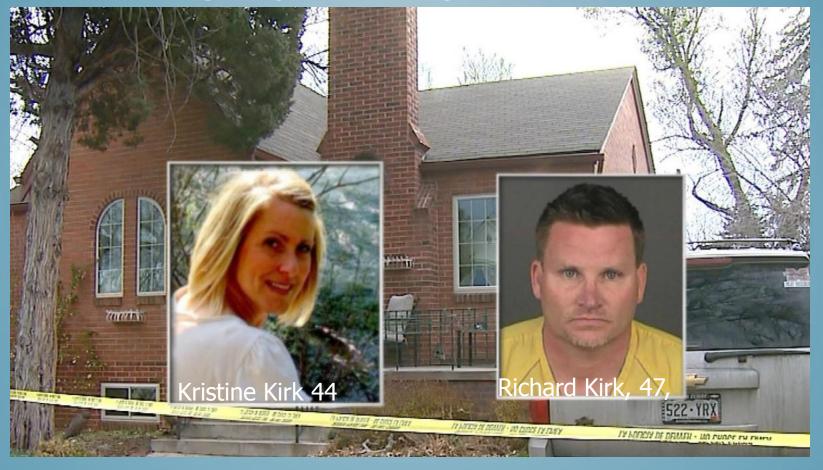


Conusmed 5- THC candies each 10 mg THC (5x recommended dose)

Corner Report: No other alcohol or drugs 3.1 nanograms of THC in his blood

""jittery", incoherent and talking nonsensically. He would make eye contact with us but didn't see us, didn't recognize our presence almost."

Richard Kirk hearing: Suspect asked boy, 7, to kill him Denver Post



Richard shot and killed his wife while hallucinating after consuming THC candies. Toxicology test later revealed that a small amount of THC, the active ingredient in marijuana, was in Richard's system that night,. There were no traces of prescription drugs or alcohol.

MOM ARRESTED FOR ALLEGEDLY GIVING EDIBLES TO SON WHO JUMPED FROM 3RD STORY WINIDOW POSTED APRIL 23, 2015 4:51

Austin Essig, 19 years old



Essig, 19, wrote that he followed the recommended dosage, he only ate one brownie and that his reaction to the marijuana was "far from normal."

FORT COLLINS, Colo. (CBS4)—On April 14 Austin Essig, launched himself through a plate glass window after he ate an THC brownie given to him by his 38 year old mother.

Police arrested Julieane
Jablonski providing marijuana
to an underage person.
Tampering with a witness is a
felony.

Pot Edibles Lawsuit Filed as More People Say They Were Sickened at Denver County Fair 08/08/2014





100ng THC

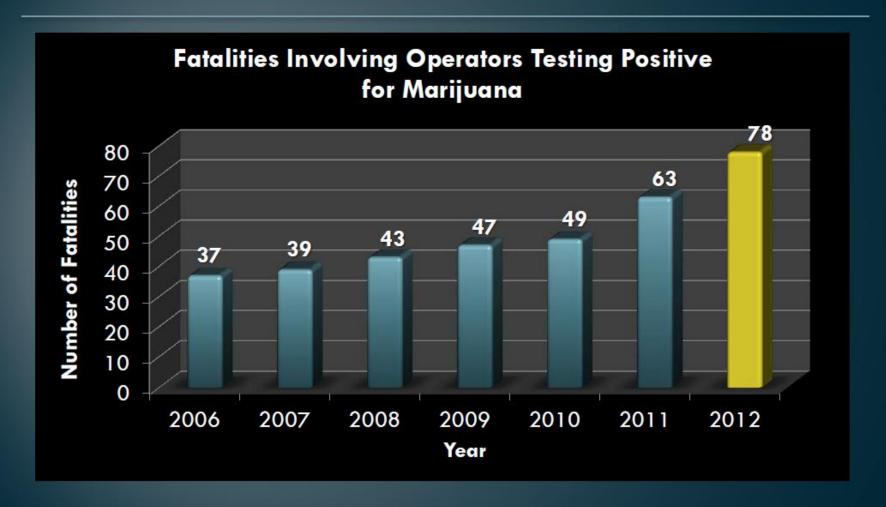
The marijuana edibles accidentally consumed made fair goers believe that they were having a heart attack or a stroke and that they were going to die.

COLORADO DATA

Full Reports Available to Download at Rocky Mountain HIDTA

http://www.rmhidta.org/default.aspx/MenuItemID/687/MenuGroup/RMH IDTAHome.htm

Marijuana and Traffic Fatalities



SOURCE: National Highway Transportation Safety Administration, Fatality Analysis Reporting System (FARS), 2006-2011 and RMHIDTA 2012

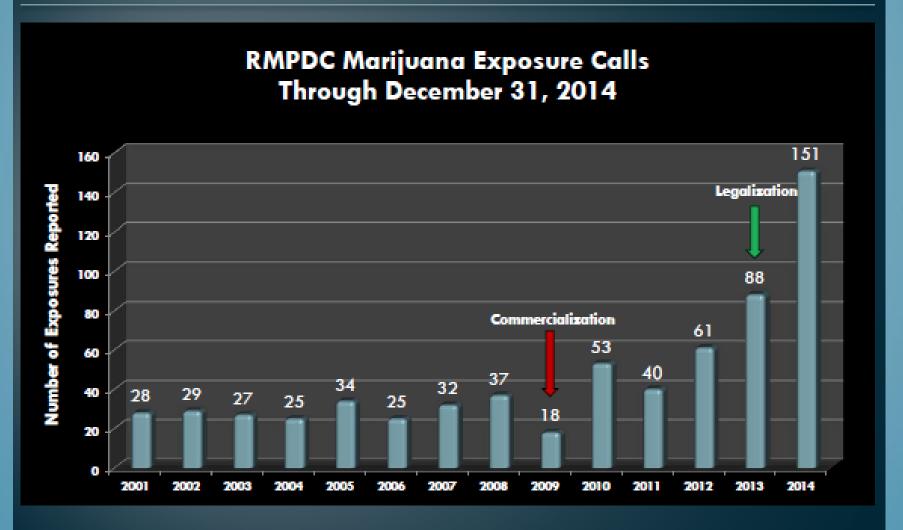




Data Not Available Pre-2011

Source: Colorado Department of Public Health and Environment, Monitoring Health Concerns Related to Marijuana in Colorado: 2014

Rocky Mountain Poison Center



SOURCE:

Emergency Room Treatment Data

☐ Children's Hospital Colorado emergency room visits for unintentional marijuana ingestion - children younger than 12 years-of-age:

2005 – 2008: 0

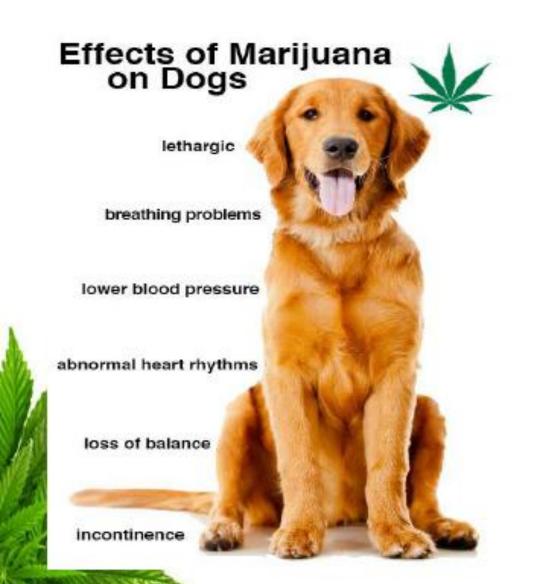
2009: 2

2013: 8

2014 (6 months): 12



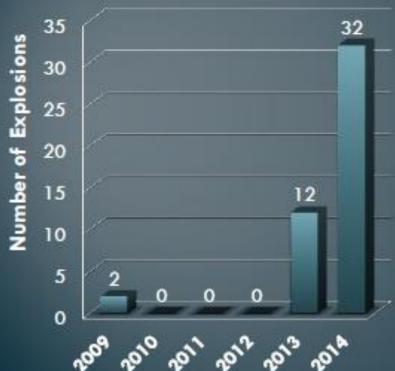
Issues for Pets



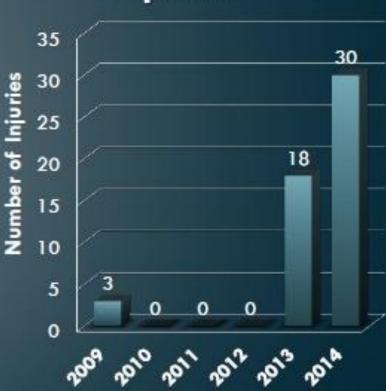
Veterinarian cases of MJ ingestions by pets has grown from roughly two cases a month to one every other day

THC Extraction Labs





Injuries



SOURCE: Rocky Mountain HIDTA Investigative Support Center

Teens and Marijuana

Voice of the Rocky Mountain Empire

THE DENVER POST

TUESDAY, NOVEMBER 12, 2013

DRIZZLE, CLEARING A52" #25" #36A . & THE DENVER POST . \$1.50 PRICE MAY VARY OUTSIDE MICTRO DENVER

DP BETHERE: Follow Denver Post reporters, breaking news and more on Twitter. »denverpost.com/twitter

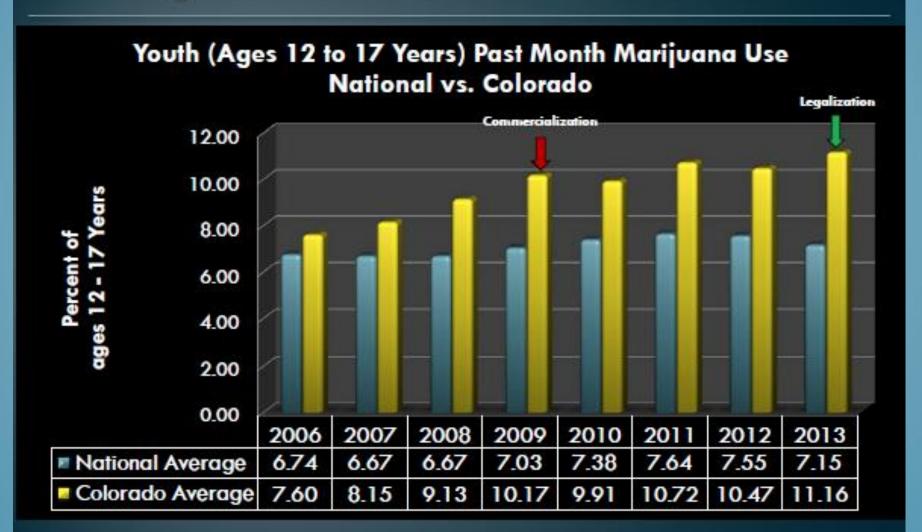
Marijuana in Colorado

High times in schools

"Since legalization, reports of pot in middle and high schools soar." Since legalization, reports of pot in middle and high schools soar.

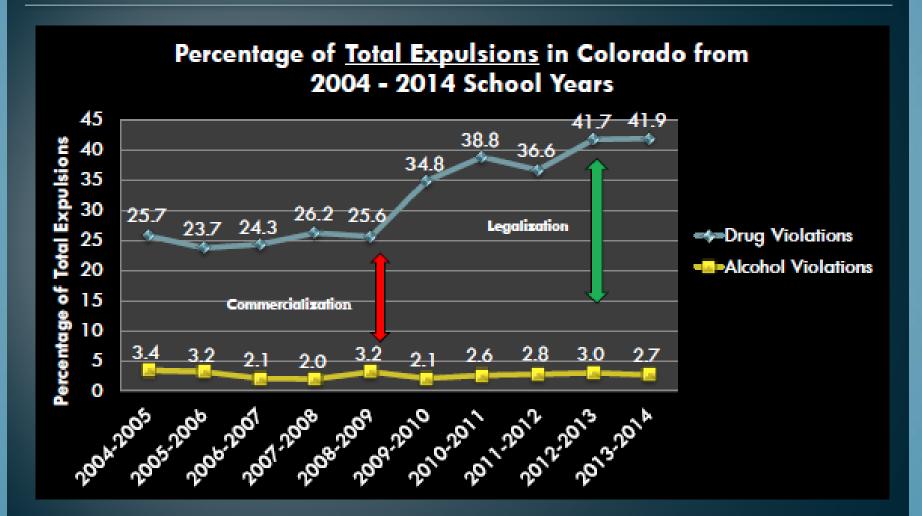
By Nancy Lofholm The Deriver Post

Marijuana Use in Youth

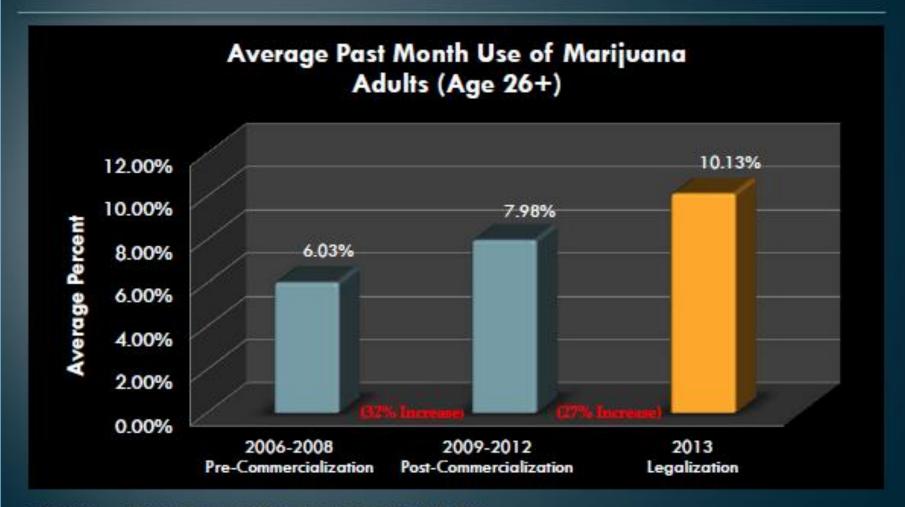


SOURCE: National Survey on Drug Use and Health, 2012 and 2013

High School Discipline

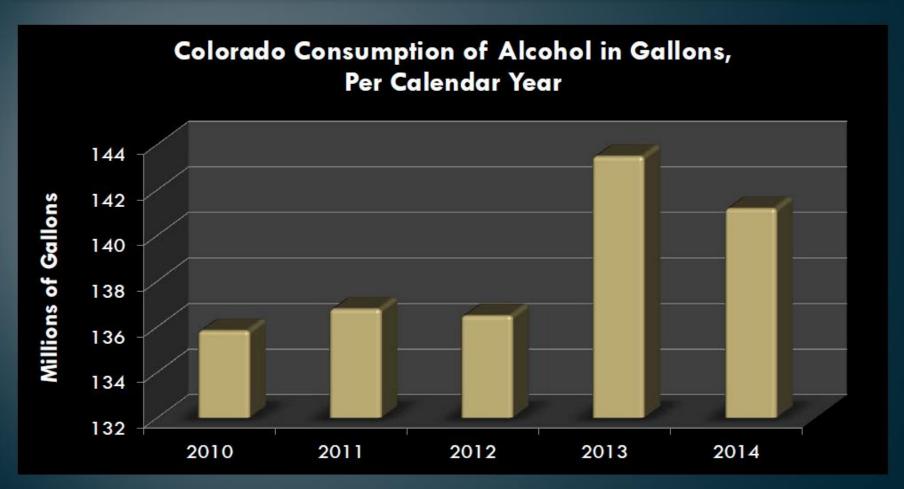


Adult Marijuana Use



SOURCE: National Survey on Drug Use and Health, 2006-2013

Alcohol Consumption



SOURCE: Colorado Department of Revenue

TELL US THE GOOD NEWS?

The Issue

2013 National Survey on Drug Use

- Americans age 12 and older (past month):
 - 9% used any illegal drug
 - 26% used tobacco
 - ✓ 52% used alcohol

The Issue

91% of Americans do NOT use illegal drugs

Source: 2013 National Survey on Drug Use

County Responses to A-64

As of November 5, 2014 related to recreational marijuana businesses:

- √ 36 counties prohibited
- √ 8 counties have a moratorium or temporary ban
- √ 5 counties prohibited new businesses but allowed medical to migrate to recreational
- ✓ 15 counties have allowed (23 percent)

City Responses to A-64

As of November 5, 2014 related to recreational marijuana businesses:

- √ 179 cities prohibited
- √ 40 cities have a moratorium
- ✓ 6 cities prohibited new businesses but allowed medical to migrate to recreational
- √ 41 cities have allowed (15 percent)

LIMITS

Polling

November 2012 A64 Results

54% in favor

46% Opposed

Sept. 2014 Suffolk University / USA Today Poll

Colorado

46% continue to support A64

50.2% do not agree with A64 decision



530-546-1924 River Coyote

GLOBAL MARIJUANA LEGALIZATION

No country has done what we are trying to do:

Netherlands

- Use-Illegal
- Possession-Illegal Decriminalized
- Sales-Illegal
- Laws banning coffee shops are not enforced. (Defacto Decriminalization) Toleration
- No advertising,
- 5 grams per person per day 2013 Updates:
- No Marijuana >15% THC
- Coffee shops private clubs with memberships
- Residents only
- · 18+
- 1000 ft distance away from schools
- OTHER Countries: Czech Republic, Peru, Spain, Ecuador, North Korea, Cambodia,
- Jamaica,

Portugal

- Use-Illegal-Decriminalized
- Possession-Illegal-Decriminalized
- Manufacturing-Illegal
- Sales-Illegal
- Civil Citation for more than 10 day supply
- Assessment
- Treatment

Uruguay

- Possession is LEGAL (small amt)
- 18+ residents only
- Register with the government :
- Grow 6 plants for personal use or
- Part of Non profit membership collective that can grow (ON HOLD)
- Or purchase in licensed gov dispensary (40grams a month) (ON HOLD)
- No advertising or promotion
- To eliminate black market
- Prices will be set, licensed

Dr. Kevin Sabet : What works How to talk about it:

- 1) Do you want to see "Big Marijuana"
- 2) Marijuana is different (emphasize this)
- 3) Personalize it: Are you relationships better off when people use more?, Does it make your neighborhood better? Does it make people better parents, employees, kids, drivers when there is more recreational use?
- 4) Do you want retail stores in your neighborhood? Recreational home grows next to your home?
- 5) Criminal Justice System should be reformed
- Don't preach to the choir: speak to new groups, people

Dr. Kevin Sabet Key Messages People are Responding to:

- 1) Annoyance-how it affects them
- 2) Pot shop in your neighborhood3) Impact on Schools
 - 4) The Colorado Experience
 - 5) Driving and impairment

CO MEDICAL CARD DATA

Condition	# Patients	% Patients
HIV/AIDS	495	1%
Glaucoma	837	1%
Cachexia	1,137	1%
Seizures	1,329	2%
Cancer	2,217	3%
Severe Nausea	9,998	12%
Muscle Spasms	14,255	17%
Severe Pain	76,887	94%

^{*}CO, 2012. Patients may report >1 debilitating condition.

http://www.cdphe.state.co.us/hs/Medicalmarijuana/