# NOTES: DRUG CLASSIFICATION

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## **Top 8 Drug Categories**

 Drugs come in various forms, and can be taken numerous ways. Some are legal and others are not.
 Drug abuse and misuse can cause numerous health problems, and in serious cases death can occur.
 Treatment for drug abuse is often sought to aid in recovery.



## **Types of Drugs**

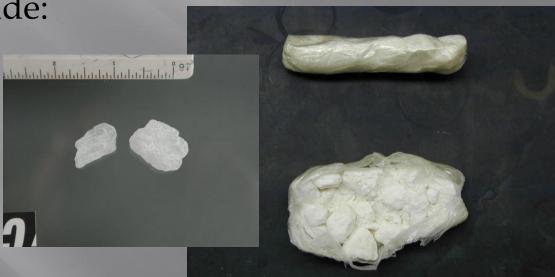
Most drugs fit into one or more of the following categories:

- Opiates or Narcotics
- Hallucinogens
- Depressants
- Stimulants
- Inhalants
- Canabinoids
- Anabolic Steriods
- Perscription Drugs



## Stimulants

- These drugs speed up the body's nervous system and create a feeling of energy.
- Also called "uppers" because they make you feel very awake.
- Stimulants have the opposite effect of depressants. When the effects of a stimulant wear off, the user is typically left with feelings of sickness and a loss of energy.
- Constant use can compound the above symptoms.
- Types of drugs include:
  - Cocaine
  - Methamphetamines
  - Amphetamines
  - Ritalin
  - Cylert



# PICTURES FROM A BUSTATA METHLAB













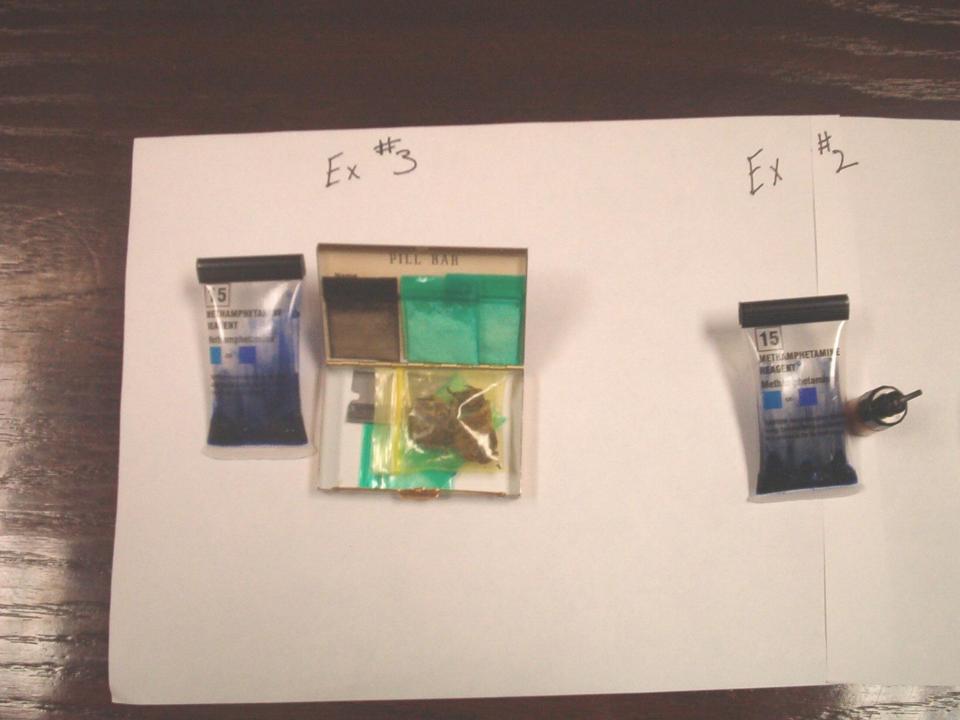


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FYOU'LL NEVER WORRY ABOUT LIPSTICK ON YOUR TEETH AGAIN.



NotEvenOnce.com

MONTANA METH PROJECT

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## Depressants

- Depressants slow down activity in the CNS.
- Also called "downers" because they slow the body down and seem to give feelings of relaxation.
- Some depressants are available as prescription drugs to relieve stress and anger, although drowsiness is often a side effect.

#### Types of drugs:

- Barbiturates
- Benzodiazepines
- Flunitrazepam
- GHB (Gamma-hydroxybutyrate)
- Methaqualone
- Alcohol
- Tranquillisers



DEPRESSANTS slow messages between the body and brain. Signals from the eyes and other senses reach the brain slowly. Heart rate drops, leaving the body with less energizing oxygen. Breathing rate decreases; risk of lung infections rises. Messages to muscles are slower; arms and legs can't move well. **RESULT:** The body can't sense-or respond todanger quickly.

**STIMULANTS create fake** messages in the brain, telling the body that it's under stress. Blood to skin decreases; the body is less able to cool itself. Overheating is a risk. Heart rate speeds up. Blood vessels to the heart constrict. The liver releases sugar into the blood, reducing the body's energy stores. **RESULT: If real stress** occurs, the body won't be able to respond.

## Inhalants

- Inhalants are sniffed or huffed and give the user immediate results.
- Unfortunately, these immediate results can also result in sudden brain damage. When inhalants are taken, the body becomes deprived of oxygen, causing a rapid heart beat.
- Other effects include liver, lung and kidney problems, affected sense of smell, difficulty walking and confusion.
- Types of drugs include:
  - Glues
  - Paint thinner
  - Gasoline
  - Laughing gas
  - Aerosol sprays



## Hallucinogens

- When taking hallucinogens, switching emotions is frequent.
- These drugs change the mind and cause the appearance of things that are not really there.
- Hallucinogens affect the body's self-control, such as speech and movement, and often bring about hostility.
- Other negative side effects of these drugs include heart failure, increased heart rate, higher blood pressure and changes in the body's hormones.
- Types of drugs include:
  - LSD (lysergic acid diethylamide)
  - Mescaline
  - Psilocybin
  - Cannabis
  - Magic Mushrooms



**Class** A

## Hallucinogens

Tabs - LSD - ACID - Trips - Magic Mushrooms

Magic mushrooms

A DECK DAMAGE AND A DECK DE STORE DE ST

(become class A only when prepared for use)



Microdots

Capsule

LSD is often found impregnated onto paper squares many of which have printed designs

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#### PEYOTE



## Magic Mushrooms









## Cannabinoids

- These drugs result in feelings of euphoria, and cause confusion and memory problems, anxiety, a higher heart rate, as well as staggering and poor reaction time.
- Types of drugs include:
  - Hashish
  - Marijuana



#### Growing Marijuana in the Basement

bsapp.com







#### Smoking Paraphernalia

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1100C

### Opioids & Morphine Derivatives (Narcotics)

- Opioids and morphine derivatives can cause drowsiness, confusion, nausea, feelings of euphoria, respiratory complications and relieve pain.
- Types of drugs include:
  - Codeine
  - Fentanyl and fentanyl analogs
  - Heroin
  - Morphine
  - Opium
  - Oxycodone HCL
  - Hydrocodone bitartrate, acetaminophen

**Class A** 

## **Opiates/Opioids**

Scag - Smack - Dragon - Tiger - Horse - Powder

Methadone liquid

Physeptone (tablets and ampoule) containing methadone

**Typical packaging** 

Heroin powder

Pethidine Morphine Diamorphine

# **BLACK TAR HEROIN**

## **Bags of Heroin**



# Repeated injections may develop permanent slits in the skin

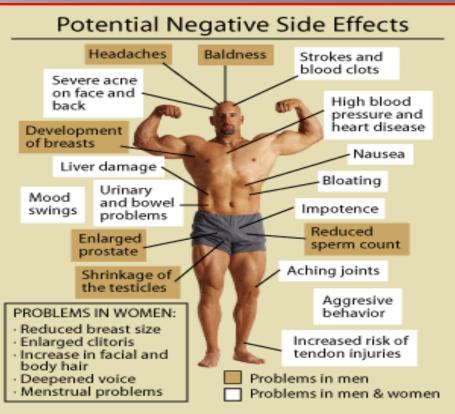


### Skin Rash-common skin condition for addicts who shoot up



## **Anabolic Steroids**

- Steroids are taken to improve physical performance as well as to enlarge muscles and increase strength.
- Negative effects of steroids include baldness, cysts, oily hair and skin, acne, heart attack, stroke and change in voice.
- Hostility is also a frequent side effect of anabolic steroids.
  Potential Negative Side Effect
- Types of drugs include:
  - Anadrol
  - Oxandrin
  - Durabolin
  - Stanozol
  - Dianabol



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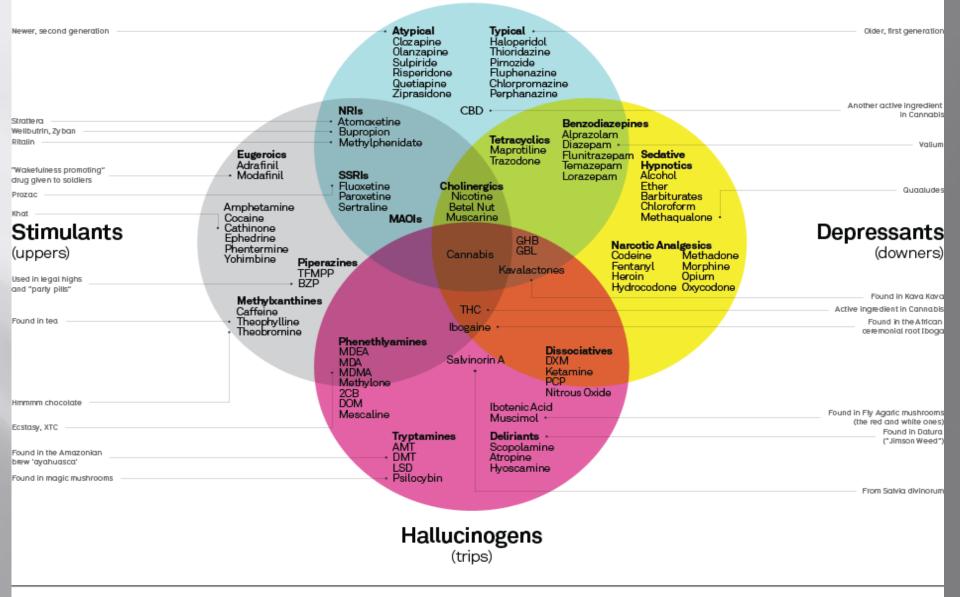
## **Prescription Drugs**

- Prescription drugs can be very helpful drugs when used properly and when under the guidance of a qualified physician.
- These drugs can be used as aids in surgery, to treat medical conditions and while controlling various symptoms.
- Misuse and abuse of prescription drugs however can be very dangerous.
- Types of drugs include:
  - Opiods: Codeine, Oxycodone, Morphine
  - Central nervous system depressants: barbiturates, benzodiazepines
  - Stimulants: dextroamphetamine, methylphenidate

#### Drugs World

#### Anti-Psychotics

(tranquillizers)



## Mouse Party

#### Mouse Brains on Drugs Simulations

# DRUG CLASSE

OXYFAST Coxycodone hydrochloride)

20 mg/1 ml Dropper Enclosed

Dropper conversion Ry Only This product is highly concentrated the oroduct contains dry natural rubber

Use with caution. This product contains dry natural rubber.

()

473 mL

Tussionex

The government maintains five schedules of classifications for controlled substances Controlled substances are placed in these schedules according to: Potential for abuse Potential for dependence Medical value

# Abuse

Inappropriate use Unwarranted use • Over use May or may not be addictive

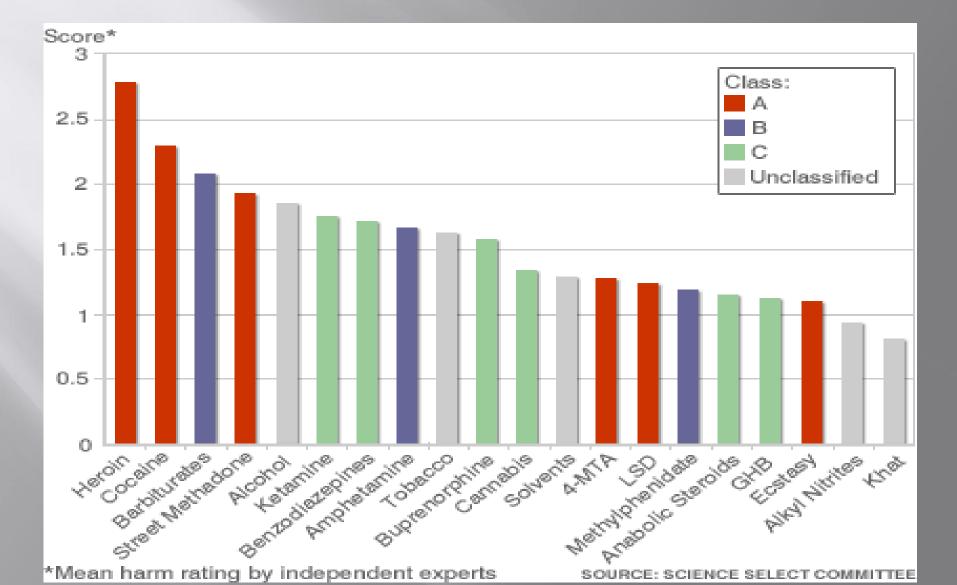


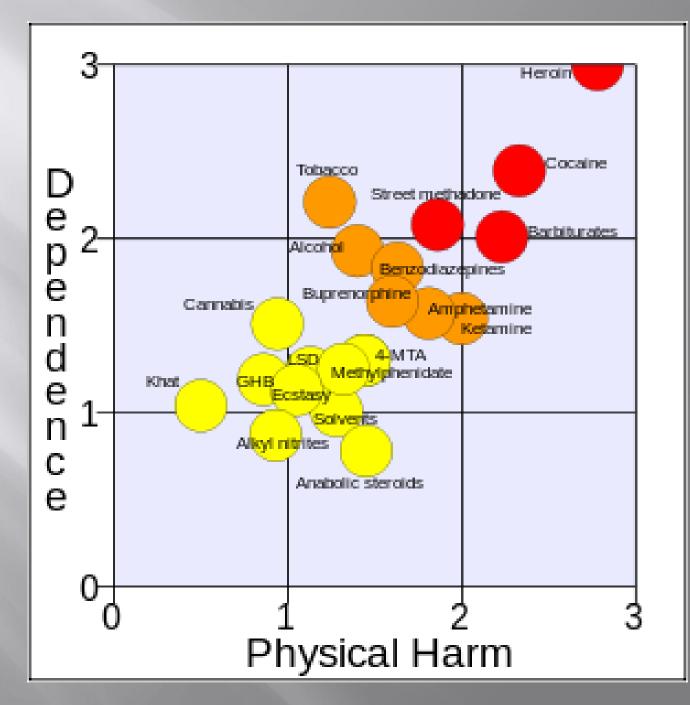
# Dependence

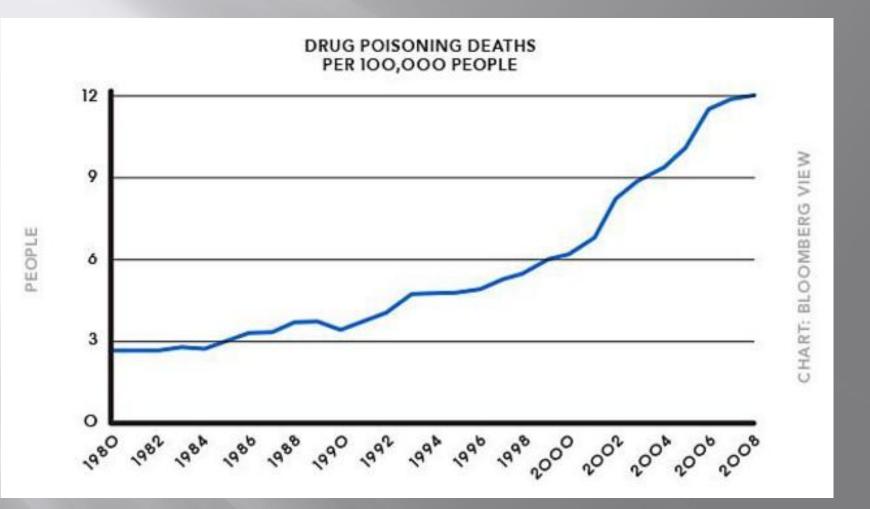
Physical dependence occurs when the drug becomes necessary for their body to function normally.

Psychological dependence occurs when a person thinks they need a drug to function normally.

### Most Dangerous/Harmful Drugs:







### Definition of Controlled Substance Schedules

- Drugs and other substances that are considered controlled substances under the Controlled Substances Act (CSA) are divided into five schedules.
- Substances are placed in their respective schedules based on whether they have a currently accepted medical use in treatment in the United States, their relative abuse potential, and likelihood of causing dependence when abused.

## Schedule I Controlled Substances

- Substances in this schedule have:
  - No currently accepted medical use in the United States,
  - A lack of accepted safety for use under medical supervision,
  - High potential for abuse.
- Some examples of substances listed in Schedule I are:
  - heroin,
  - Iysergic acid diethylamide (LSD),
  - marijuana (cannabis),
  - peyote,
  - methaqualone,
  - □ 3,4-methylenedioxymethamphetamine ("Ecstasy").



### Schedule II Controlled Substances

- Substances in this schedule have
  - A high potential for abuse which may lead to severe psychological or physical dependence.
- Examples of Schedule II narcotics include:
  - methadone (Dolophine<sup>®</sup>),
  - meperidine (Demerol®),
  - oxycodone (OxyContin®, Percocet®),
  - morphine, opium, and codeine.
- Examples of Schedule II stimulants include
  - amphetamine (Dexedrine®, Adderall®),
  - methamphetamine (Desoxyn<sup>®</sup>),
  - methylphenidate (Ritalin<sup>®</sup>).



### Schedule III Controlled Substances

- Substances in this schedule have
  - A potential for abuse less than substances in Schedules I or II and abuse may lead to moderate or low physical dependence or high psychological dependence.
- Examples of Schedule III narcotics include:
  - combination products containing less than 15 milligrams of hydrocodone per dosage unit (Vicodin®),
  - products containing not more than 90 milligrams of codeine per dosage unit (Tylenol with Codeine®).
- Examples of Schedule III non-narcotics include:
  - benzphetamine (Didrex®),
  - phendimetrazine,
  - anabolic steroids such as Depo®-Testosterone and Androgel®.



### Schedule IV Controlled Substances

- Substances in this schedule have
  - A low potential for abuse relative to substances in Schedule III.
- Examples of Schedule IV substances include:
  - alprazolam (Xanax<sup>®</sup>),
  - carisoprodol (Soma®),
  - clonazepam (Klonopin®),
  - □ diazepam (Valium®),
  - □ triazolam (Halcion®).

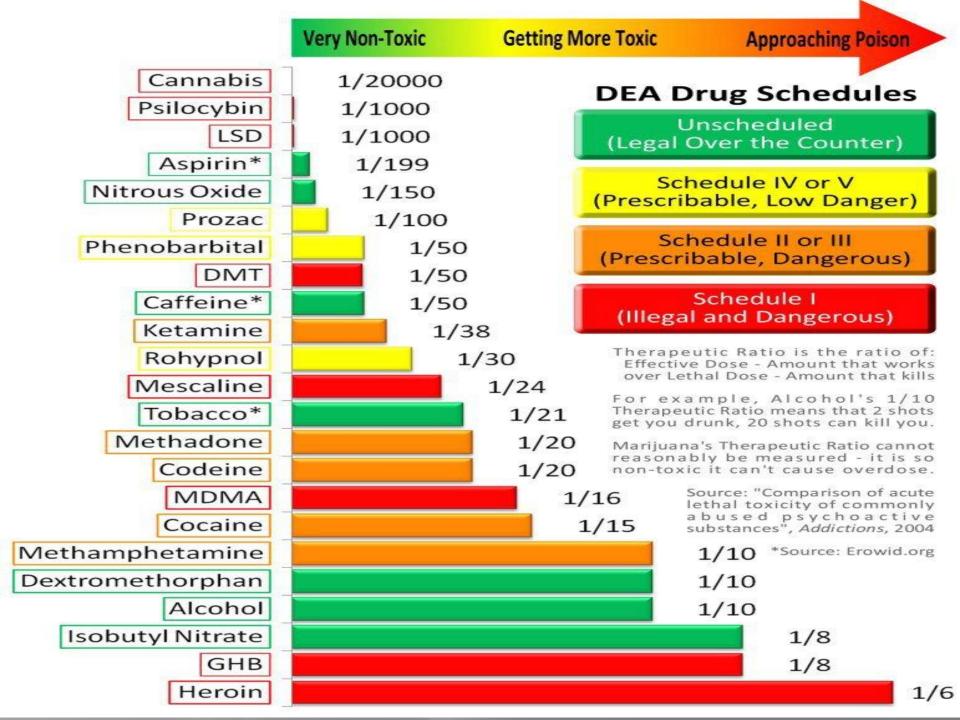
### Schedule V Controlled Substances

Substances in this schedule have

- A low potential for abuse relative to substances listed in Schedule IV and consist primarily of preparations containing limited quantities of certain narcotics.
- Examples of Schedule V substances include:
  - cough preparations containing not more than 200 milligrams of codeine per 100 milliliters or per 100 grams (Robitussin AC®, Phenergan with Codeine®), and ezogabine.

### Legal Classification: Controlled Substances Act 1990 (original 1970)

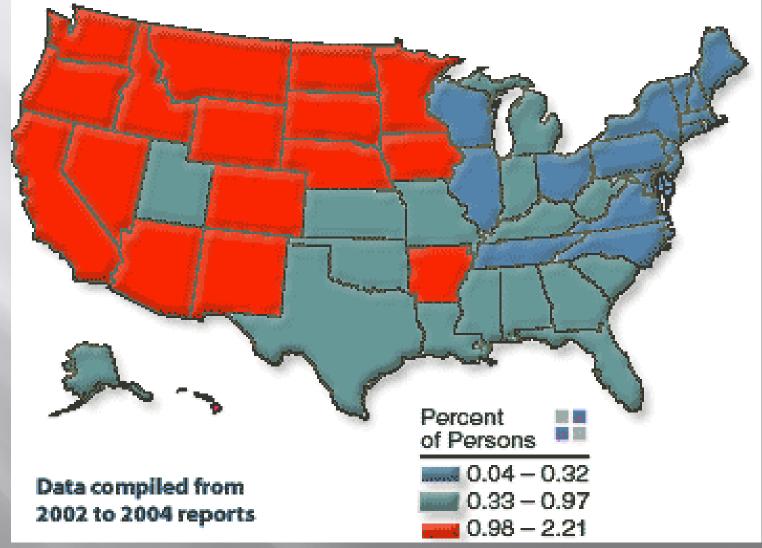
- The following is only a partial listing:
- Schedule 1:
  - High Abuse, No Recognized Medical Use, High Dependency Risk
  - Heroin, LSD, Marijuana, Methaqualone
- Schedule 2:
  - High Abuse, Medical Utility, High Dependency Risk
  - **Opium**, Morphine, Cocaine, Methadone, Methamphetamine
- **Schedule 3**:
  - Lower Abuse, Medical Utility, Moderate Dependency Risk
  - AmphetamineBarbiturateValiumXanaxAnabolic SteroidsCodeine
- Schedule 4:
  - Limited Abuse, High Medical Utility, Limited Dependency Risk
  - Chloral Hydrate, Phenobarbital
- Schedule 5:
  - Minor Problems
  - **Typically includes preparations of the above drugs in limited amounts**



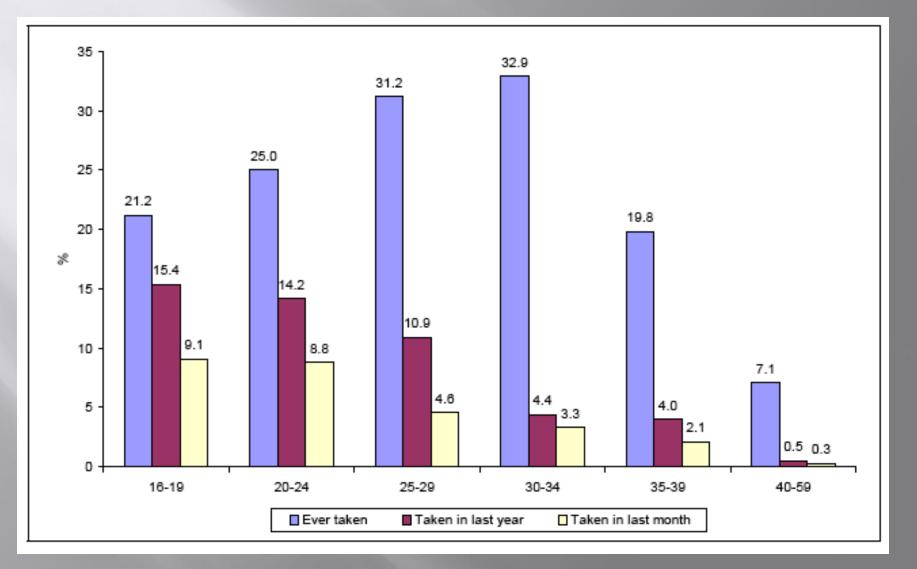
### Drug Usage Statistics:



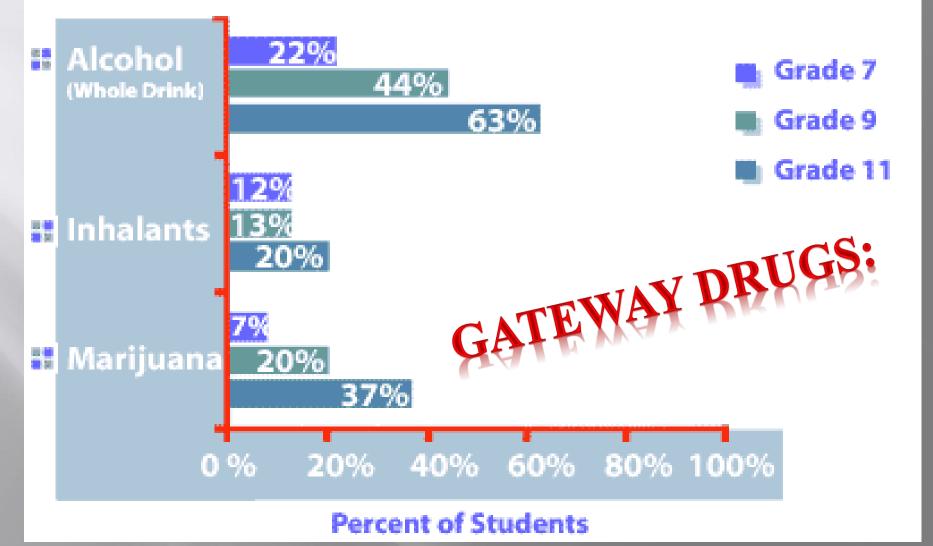
#### Methamphetamine Use in Past Year by people Aged 12 or Older



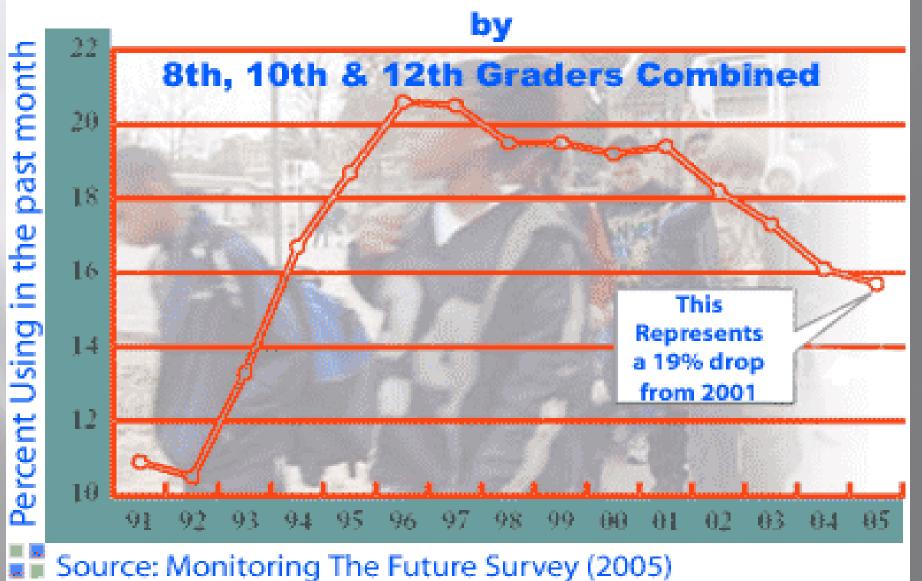
## Age Range and Drug Use:



### Percent of Students Who have used Alcohol or Other Drugs at Least Once in Their Lives

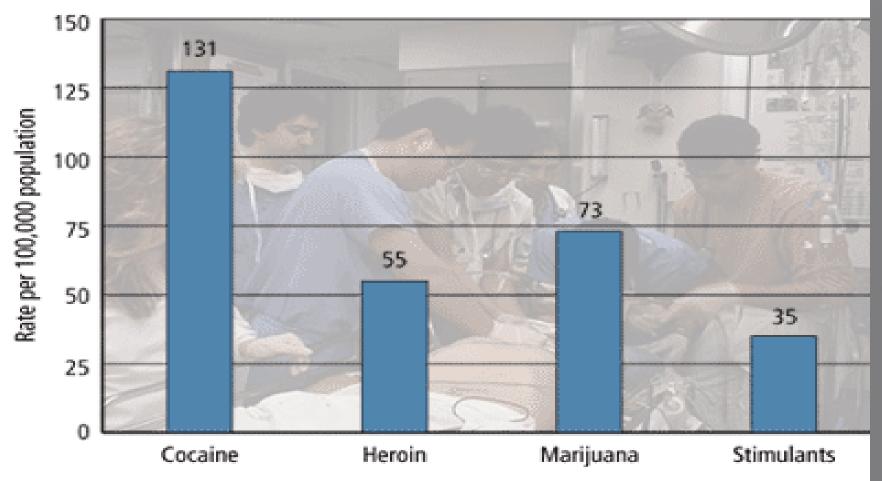


#### **Any Illicit Drug Use**

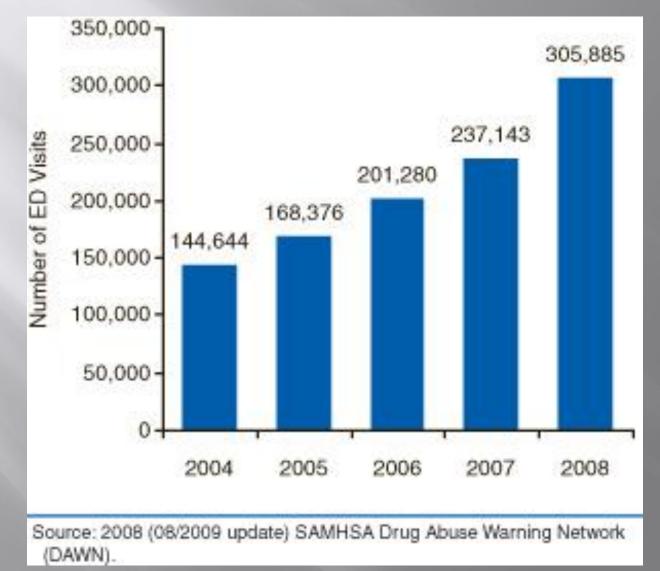


### Drugs responsible for most emergency room visits in 2004

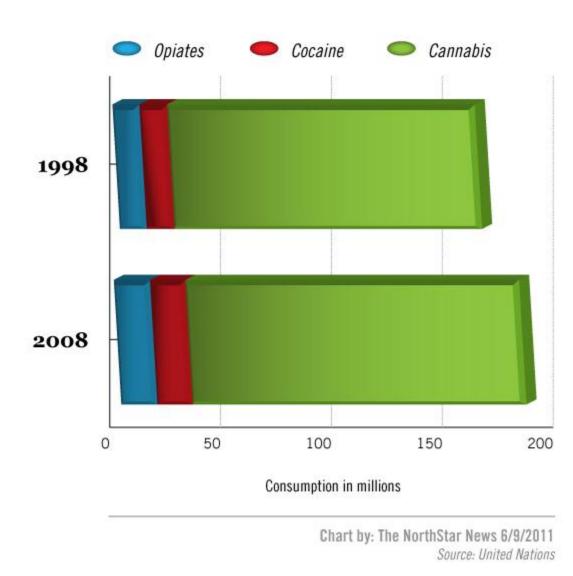
#### Drug Related Emergency Room Admissions 2004

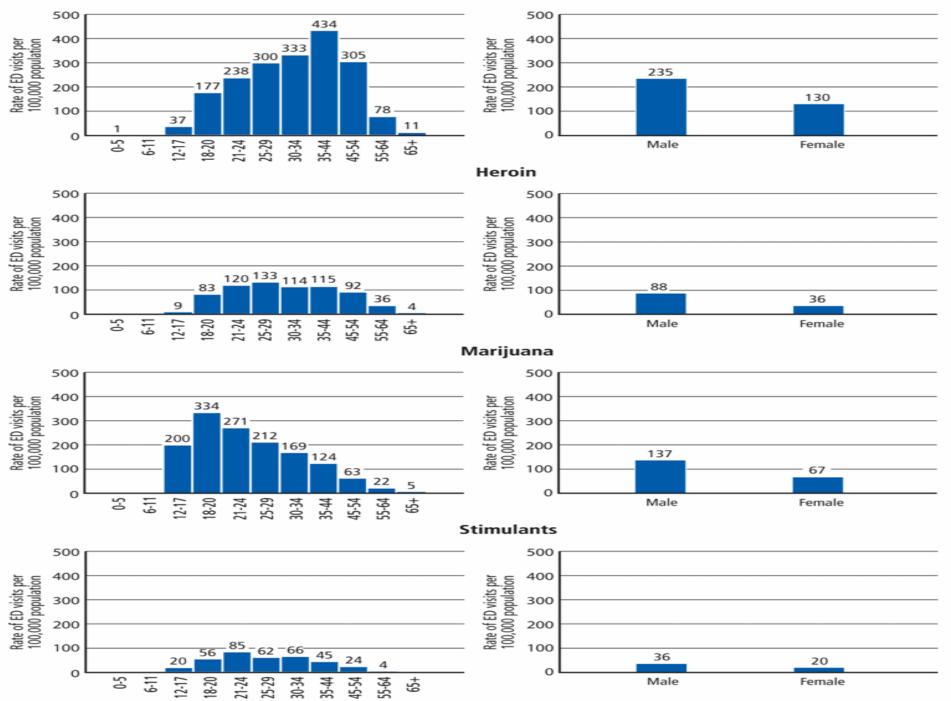


### E.R. Visits related to drugs 2004 - 2008



#### **Estimated Annual Drug Consumption**



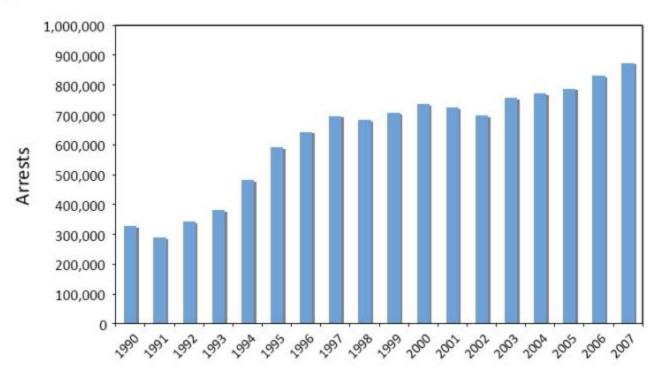


Cocaine

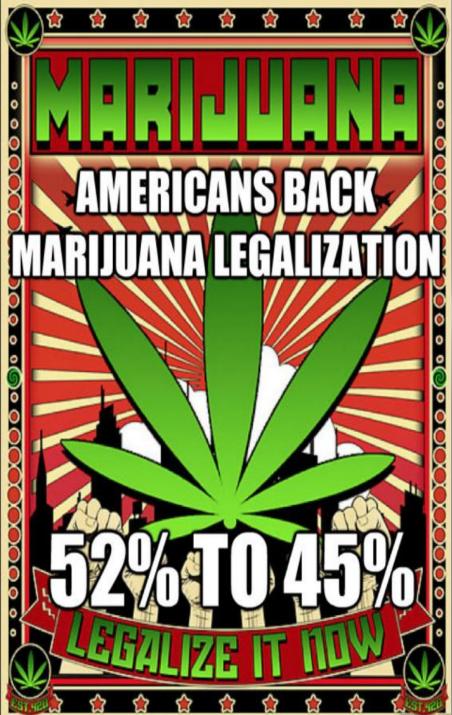


#### Should we just legalize drugs?

Figure 2. Cannabis-related arrests in the United States, 1990-2007\*

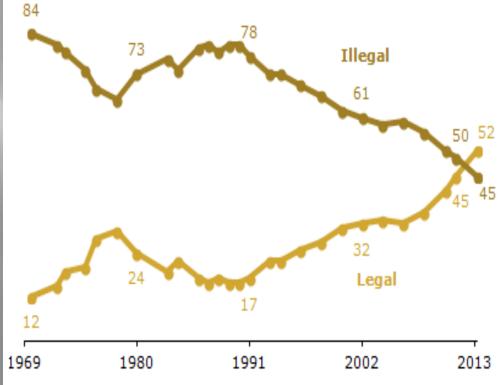


\*Includes arrests for possession, sale or production of cannabis Source: US Bureau of Justice Statistics



#### Views of Legalizing Marijuana: 1969-2013

% saying marijuana should be...



PEW RESEARCH CENTER March 13-17, 2013. 1973-2008 data from General Social Survey; 1969 and 1972 data from Gallup.

### \$193 billion

Estimated cost of drug use to the U.S society in lost productivity, health care and criminal justice costs in 2007 (Source: NDIC)

# \$6,120 per second

Estimated cost of drug use to the U.S society in lost productivity, health care costs, etc. (Source: NDIC)

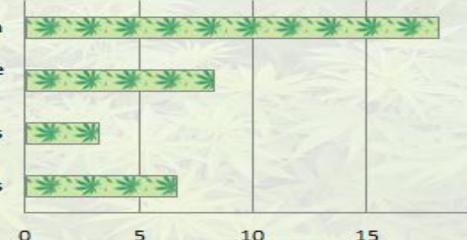
#### Potential Tax Savings & New Revenue from Marijuana Legalization (Adjusted for 2012)

Total Budget Gain

Tax Revenue if Taxed Like Alcohol/Tobacco

Federal Government Tax Savings

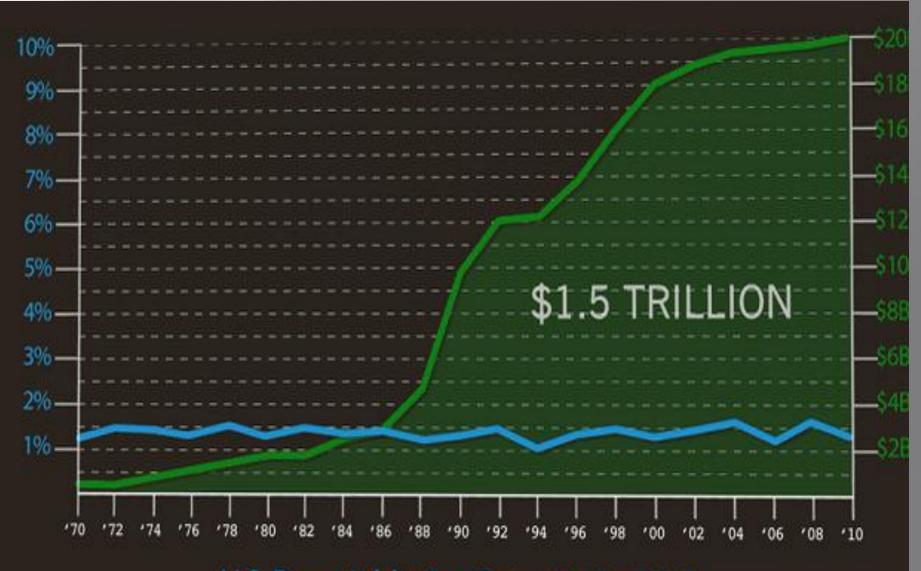
State and Local Tax Savings



**US Dollars in Billions** 

Source of Data: Jeffrey, Miron, 2005, "The Budgetary Implications of Marijuana Prohibition"

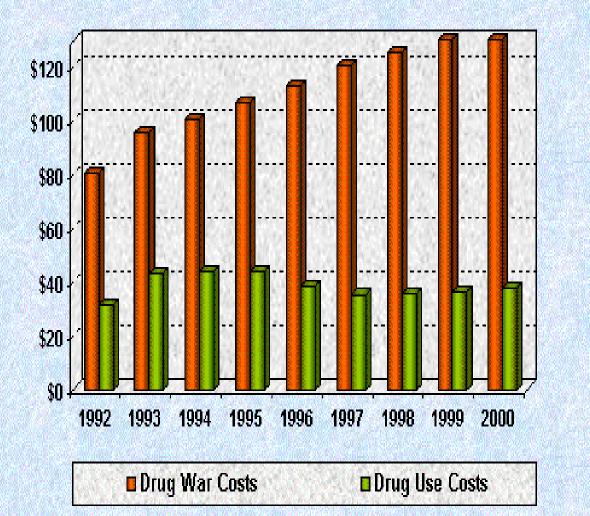
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U.S. Drug Addiction Rate, 1970 - 2010 U.S. Drug Control Spending, 1970 - 2010

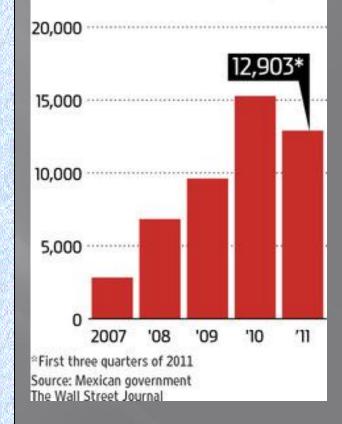
#### Costs of Drug War vs Costs of Drug Use (2000 \$billions) Source: ONDCP

http://www.briancbennett.com

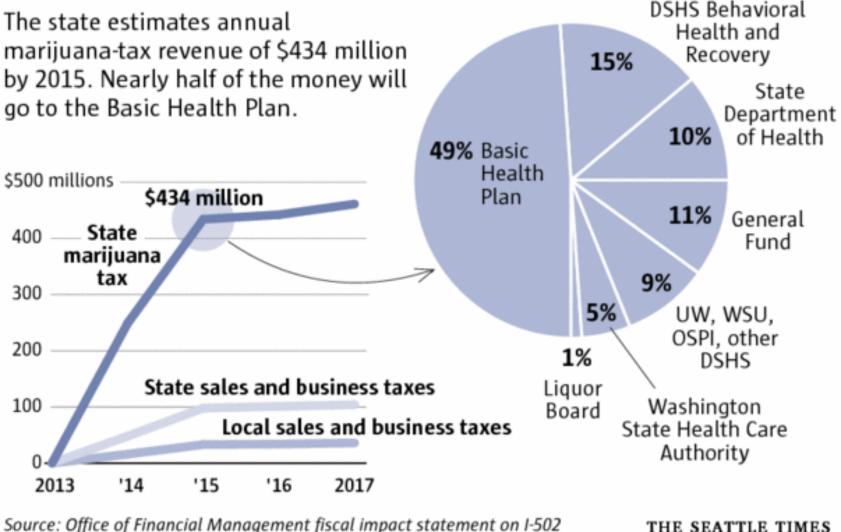


#### South of the Border

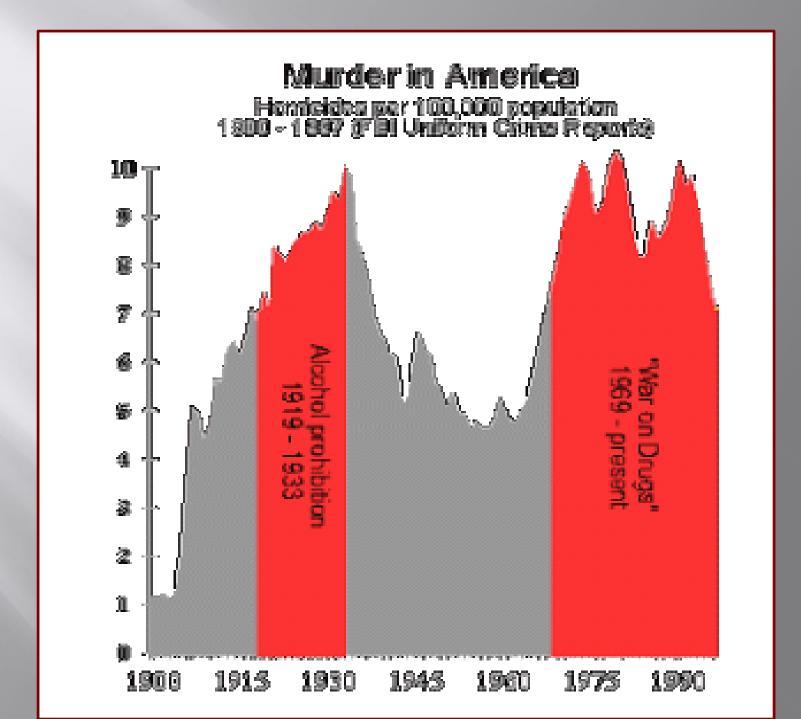
Deaths in Mexico related to the drug war



### I-502 and public money



THE SEATTLE TIMES



# SOME BODILY EVIDENCE OF DRUG USE

bsapp.com

## The bottom of the brain



These black spots on the brain indicate long-term drug use

bsapp.com

### A cross section of the Brain

bsapp.com

Hemorrhage caused by a cocaine overdose



### Hemorrhage caused by a cocaine overdose

# Drug Smuggling

One common way to smuggle drugs into the country is to swallow a plastic bag filled with cocaine, heroin, or some other illegal contraband. After passing through customs, the smuggler will then "throw up" the bag. This plan goes south if the bags burst while in the stomach. The black spots in this stomach indicate where bags of cocaine burst, causing a massive over dose.

