



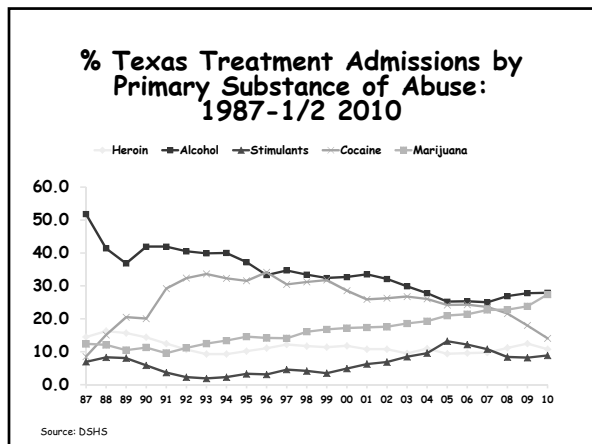
Current Drug Trends: New Every Day

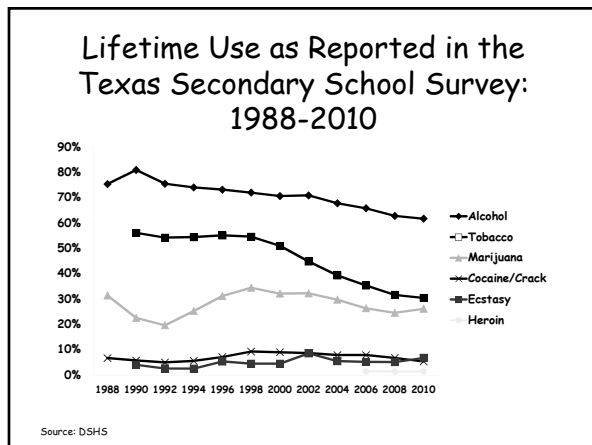
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The University of Texas at Austin
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Data Sources

- Death data (DSHS) - 2009
- Poison Control Center cases (DSHS) - 2010
- Treatment admission records (DSHS) - $\frac{1}{2}$ 2010
- Surveys (DSHS) 2010 and (YRBS) 2009
- Forensic laboratory tests (NFLIS) - $\frac{1}{2}$ 2010
- DEA Dallas, El Paso, and Houston Field Division Intelligence Reports - $\frac{1}{2}$ 2010
- NIDA, R21 DA025029

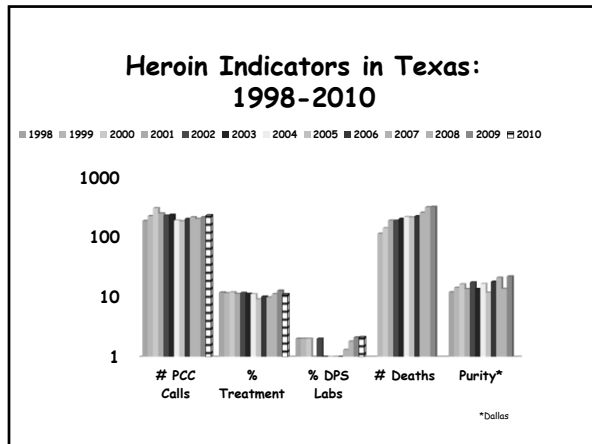


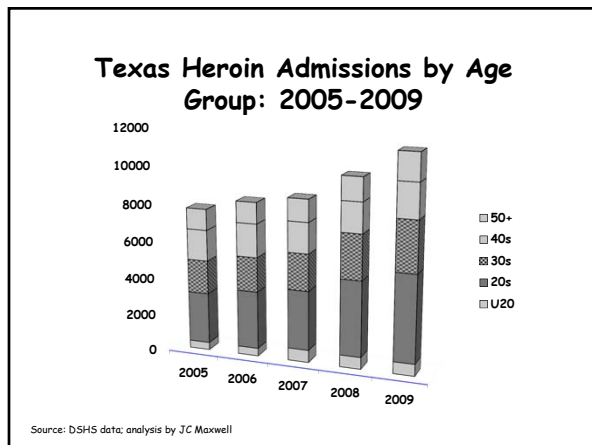




Heroin: Texas Update

- Indicators level.
- El Paso DEA-moderate/stable
- Dallas DEA-moderate availability-mainly Black Tar but white heroin transits thru to Northeast
- Houston DEA-moderate-white heroin occasionally available. Reports of "shebanging" or "Monkey Water"—liquid heroin taken intranasally.





Other Opiates: Texas Update

- Indicators up.
- El Paso DEA-moderate—drugs requiring Rx in US and some “clinical trial” drugs legally available in Mexico.
- Dallas DEA-hydrocodone, alprazolam, codeine are top. Dipping joints in promethazine with codeine.
- Houston DEA-“Holy Trinity” of hydrocodone, alprazolam, and carisoprodol. None are Schedule II.

"Holy Trinity"

- "Houston Cocktail"
- Hydrocodone, alprazolam, and carisoprodol
- 6 Houston "pain clinic" doctors each wrote between 23,907 and 43,383 scripts in a 15-month period.
- Need real-time on-line Texas prescription monitoring program.

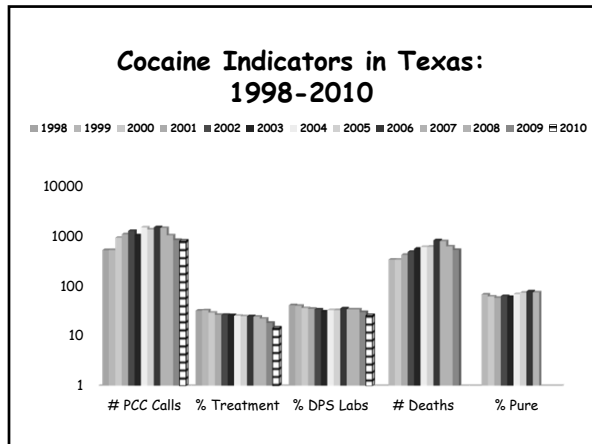
"SYRUP" in Texas

- Codeine cough syrup continues to be abused.
- Cut with Karo syrup, jolly ranchers, and soft drink.
- Rap music on syrup continues.
- Prepackaged to introduce to youths or ready to add the syrup?

New "Soft" Drinks: Drank and *Lean*

Valerian Roots
Melatonin
Rose Hips
"Slow Your Roll"
"Slow Motion Potion"





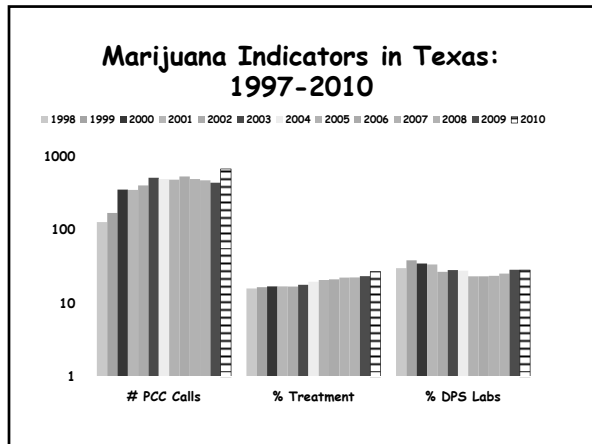
Cocaine: What's going on?

- Poison control, treatment, death, tox lab indicators down nationwide; price and purity up.
- Impact of the Border wars?
- Demand in Europe for cocaine.
- Use of Levamisole as a filler. Serious medical consequences.

New Problems with Cocaine

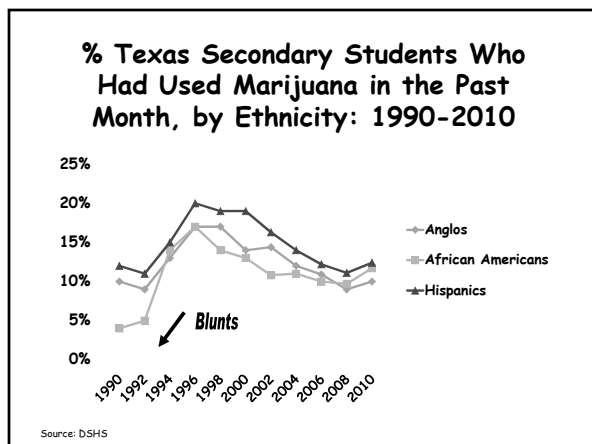


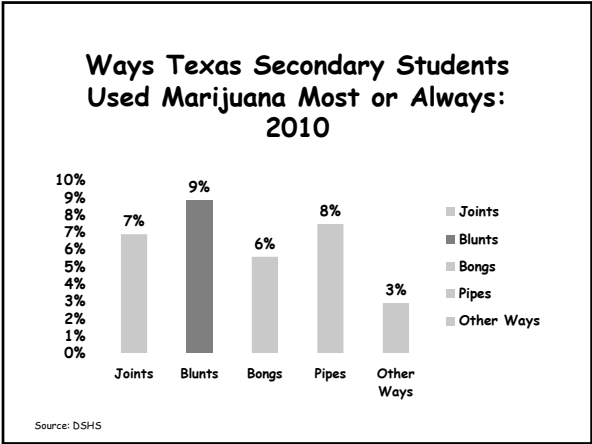
- Levamisole is cancer medication also used in de-worming animals.
- Can result in agranulocytosis (discoloration of skin, beginning in ears—sign of skin cell death)
- Results in neutropenia (bone marrow does not make enough white blood cells)



Cannabis: Texas Update

- Indicators level.
- El Paso DEA-high-from Mexico-little locally grown
- Dallas DEA-high-Mexican & sophisticated indoor grows-less Mexican domination in the future?
- Houston DEA-high-Mexican & indoor grows-Asian DTOs importing from Canada.





Relationship of Use of Tobacco, Marijuana & Blunts: 2010 Texas Secondary School Survey

Tobacco	Marijuana	Cigars
Ever Used	Never Used	5%
Never Used	Ever Used	66%
Ever Used	Ever Used	77%

Source: DSHS



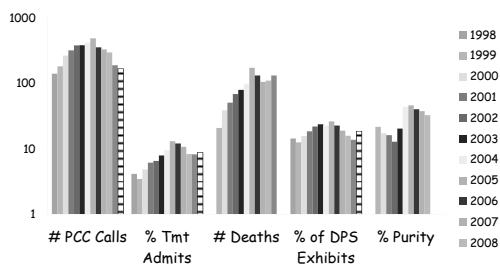


Calls on Marijuana Homologs to Texas Poison Centers 1/1/10-1/3/11

- 459 exposures, 74% male, ages 12-67; up from 3 in January to 61 in December.
- 87% intended to misuse or abuse
- 37% reported tachycardia, 16% vomiting, 19% agitation, 9% confusion, 19% drowsiness.

Source: DSHS, Mathias Forrester

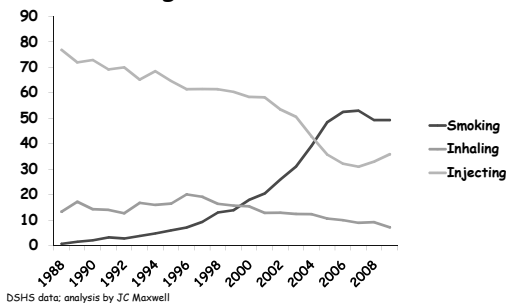
Methamphetamine & Amphetamine Indicators in Texas: 1997-2010



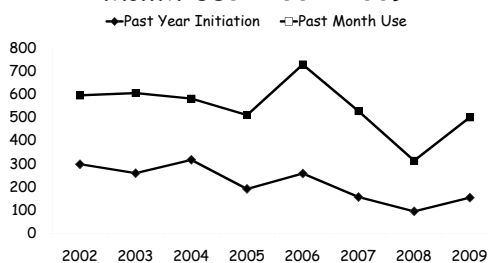
Methamphetamine: Texas Update

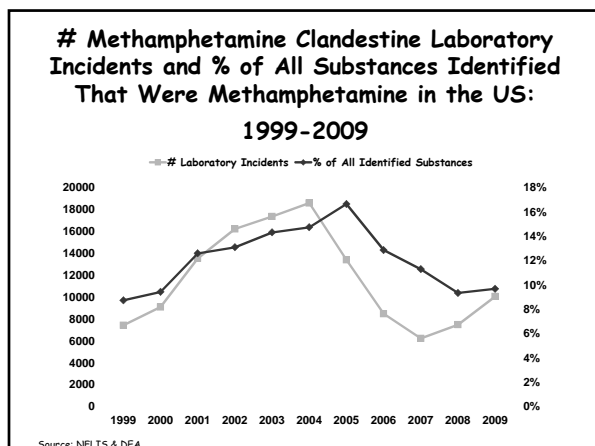
- Indicators starting up.
- El Paso DEA-powder moderate; Ice low; from Mexico with some small local PSE labs.
- Dallas DEA-high-Mexican-took out 300# of ~100% pure with no reduction in availability. Wholesale prices imposed from Mexico to make up for the loss-La Familia
- Houston DEA-high-mostly Ice from Mexico-few small local labs-Aryan Brotherhood and Mexican Mafia.

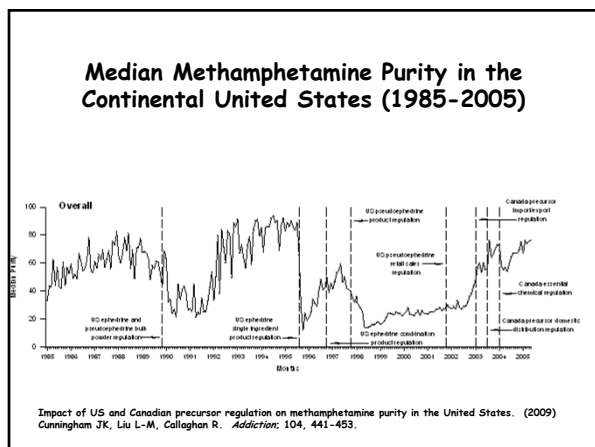
Routes of Administration of Methamphetamine of Clients in Texas Programs: 1988-2009

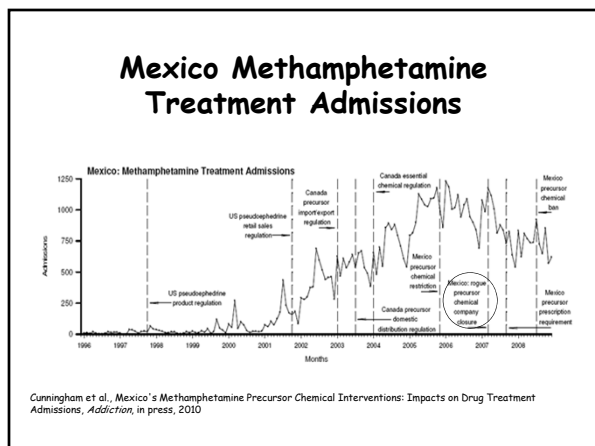


Past Year Initiation of Methamphetamine Use and Past Month Use: 2002-2009





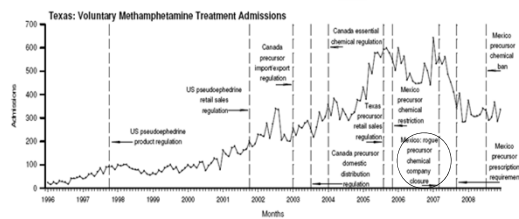




US Money Seized in Closure of Rogue Mexican Chemical Company: 2007



Texas Treatment Admissions



Mexico's Methamphetamine Precursor Chemical Interventions: Impacts on Drug Treatment Admissions, *Addiction*, in press, 2010

DEA Methamphetamine Profiling Program

- *d*-meth has more potent physiologic and behavioral effects and higher abuse liability (Mendelson et al., 2006), as well as being a more potent dopamine releaser (Kuzcenski et al., 1995). Users injected with *d*-, *dl*-, and *l*-meth gave *l*-meth lower ratings for ability to produce "intoxication" and "drug liking".
- 63% of samples were from P2P process, 13% phosphorus-iodine.
- Mexican cooks are refining the P2P product so very little *l*-meth is present.
- Non-Mexican foreign samples were 89% pure and all were *d*-meth.

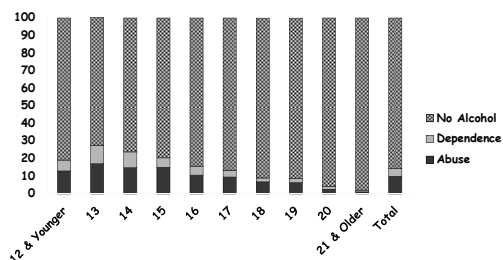
**Preliminary Findings from Survey of
154 Meth Users Early in Treatment**

- Multiple routes: Smoke (60%), IDU (50%), Snort (38%), Swallow (21%), Shaft (3%).
- Other drugs used in combo with meth: pot (53%), alcohol (51%), Xanax (39%), cocaine (33%), Vicodin (32%), heroin (24%), crack (21%).
- Top Benefits: increased energy/stay awake (63%), enhanced sex (54%), weight loss (38%), "The High" (30%), increased confidence (30%).
- Top Risks (excluding addiction): depression (39%), anxiety/panic (37%), paranoia (38%), legal/police problems (36%), family/cps problems (32%).

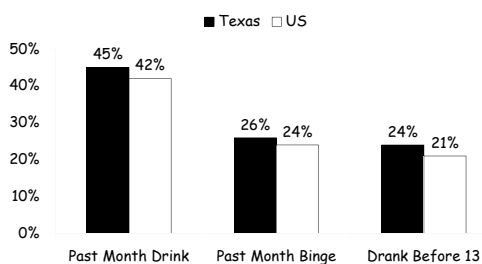
- Very different opinions as to the quality of meth and source. Some home-cooked powder with heavy metals added; most is crystal.
- Obvious cognitive deficits; lack of concentration.
- Self-reports of rage, visions, schizophrenic episodes; evidence of cognitive deficits; 61% had ever received mental health diagnosis.
- Increasing need for treatment for severely impaired addicts, including increased residential treatment capacity and counselors well-trained to deal with methamphetamine and mental illness.
- Need to upgrade skills of counselors to treat co-occurring conditions.

Alcohol

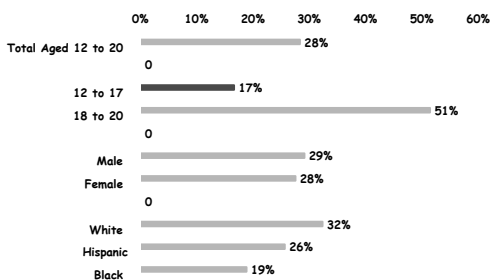
Relationship Between Age of Onset of Drinking and Prevalence of DSM-IV Alcohol Abuse and Dependence: 1994



Percent Alcohol Use by High School Students: 2009 YRBS

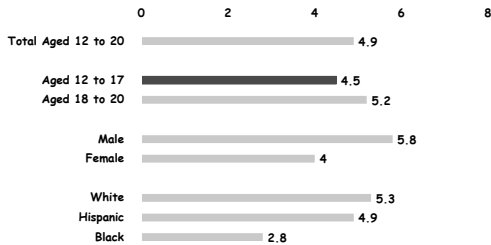


% Past Month Alcohol Users in the U.S. Ages 12 to 20: 2005-2006



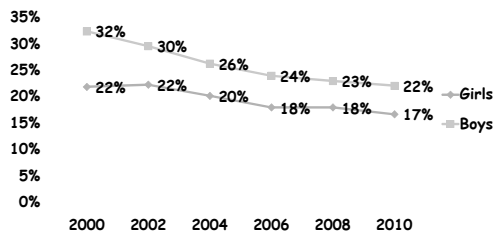
SAMHSA, The NSDUH Report: Quantity and Frequency of Alcohol Use Among Underage Drinkers, 4/2008

**Average # Drinks per Day on the Days
Used Alcohol among Past Month U.S.
Alcohol Users Ages 12 to 20: 2005-2006**



SAMHSA, The NSDUH Report: Quantity and Frequency of Alcohol Use Among Underage Drinkers, 4/2008

**Percentage of Texas Secondary Students
Who Reported They Normally Consumed
Five or More Drinks at One Time, by
Gender: 2000-2010**



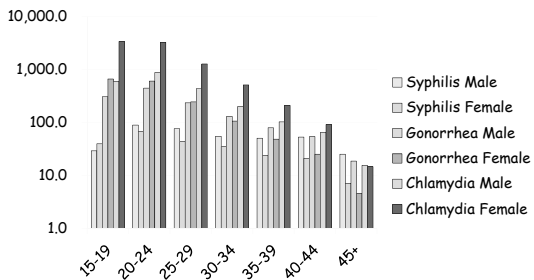
Liu, L. Texas School Survey of Substance Use Among Students in Grades 7-12, DSHS.

Binge Drinking and Women

- Women binge drinkers engaged in anal sex more often than women who drank alcohol without binges (33% vs. 16%) and 3 times the rate of women who abstained from alcohol (11%).
- Having multiple sex partners was more than twice as common among women binge drinkers than women abstainers (41% vs. 17%).
- Gonorrhea was nearly 5 times higher among women binge drinkers compared to women abstainers (11% vs. 2%).
- Among men, rates of risky sexual behaviors/STDs were high, but did not differ by alcohol use.
- The findings support the need to routinely screen for binge drinking as part of clinical care in STD clinics.
- **Women binge drinkers may benefit from interventions that jointly address binge drinking and risky sexual behaviors.**
- **Developing gender-specific interventions could improve overall health outcomes in this population.**

Hurton, H. et al., (2008). The Relationship Between Recent Alcohol Use and Sexual Behaviors: Gender Differences Among Sexually Transmitted Disease Clinic Patients, *Alcoholism: Clinical and Experimental Research*

Texas STD Case Rates: 2009



Alcoholic Energy Drinks

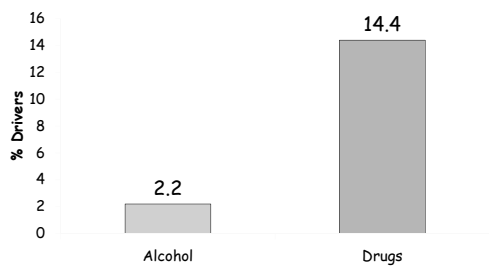


Deciphering Skills



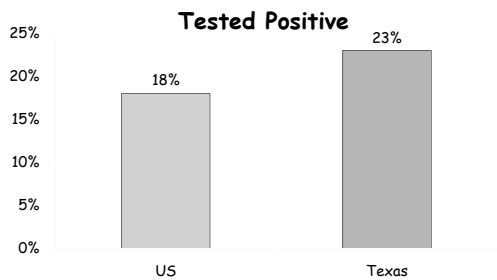
Impaired Driving: Not Just Alcohol!

**% of Weekend Nighttime Drivers with
BACs > 0.08g/dL or Positive for Drugs
in the 2007 National Roadside Survey**



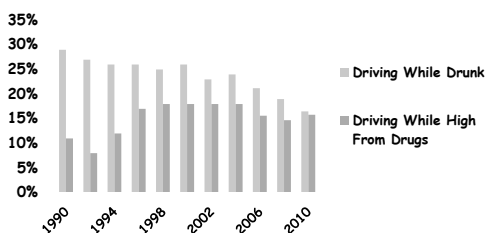
NHTSA Traffic Safety Facts, 2009

**Drug Involvement of Fatally Injured
Drivers: US and Texas 2009**



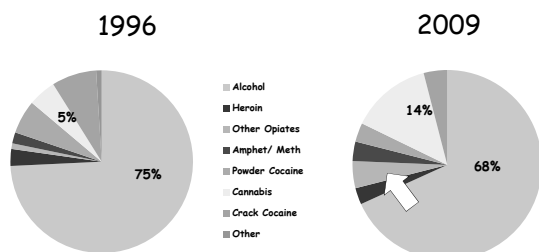
NHTSA Traffic Safety Facts DOT HS 811 415, 2010

Percentage of Texas Seniors Who Had Driven While Drunk or High from Drugs: 1990-2010



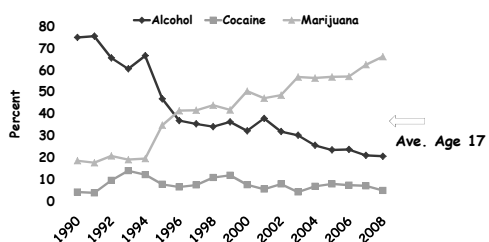
Source: DSHS

Primary Problem of Texas Past-Year DUI Arrestees Entering Treatment

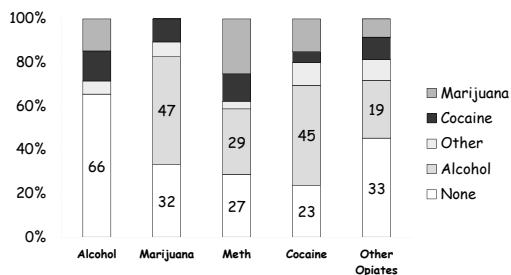


Source: DSHS, analysis by Maxwell

Primary Problem of Texas DUI Clients Under Age 21 at Treatment Admission: 1990-2008



Use of Alcohol or Other Drugs by Primary Problem at Admission: 2005- 2009



Source: DSHS, analysis by J C Maxwell

Findings from Texas Studies on Impaired Drivers in Treatment: Adults & Youths

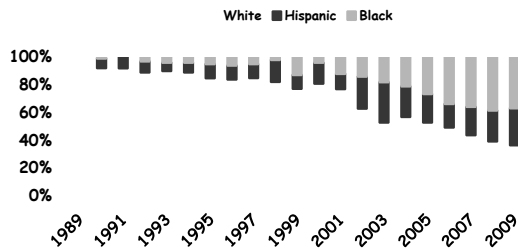
- Not being abstinent at 60-day follow-up was predicted by living in household where exposed to alcohol and drugs, more past-year DWI arrests, and residential treatment.
- Need for sober housing, mental health treatment and medication, closer supervision of more impaired clients and use of interlocks and electronic monitoring on selected clients.

Club Drugs

Ecstasy: Texas Update

- Indicators level-up.
- El Paso DEA-low-from Mexico-shift in use by young to El Paso clubs rather than clubs in Juarez.
- Dallas DEA-moderate but more available—from Ontario and BC thru Asian DTOs.
- Houston DEA-moderate-from Canada, the Northeast & Europe-Asian & Caucasian traffickers.

Texas Treatment Admissions with a Primary, Secondary or Tertiary Problem with Ecstasy: 1998-2009



Mephedrone

- 4-Methylmethcathinone (Meow, M-Cat, Bubbles)
- Synthetic stimulant similar to methcathinone, MDMA, cocaine, methamphetamine
- Sold on-line
- Interviewed 2 heavy X users who got drug in Austin club district. 4 cases of MDPV and 1 4-MMC (mephedrone) in ½ 2010 DPS lab findings and 19 poison control center cases.

Ivory Wave

"Soothing Bath Salts"

- Sold on-line with no mention of dosage or harms
- Could be MDPV-Methylenedioxypropylvalerone but no one is sure
- Effect similar to Ecstasy
- Taken orally or by inhaling.
- Negative side-effects reported.



Piperazines

Including BZP & TFMPP

- "A2", "Frenzy",
- "Nemesis"
- Stimulants which are combined to be alternative to Ecstasy & methamphetamine.
- BZP is Schedule 1 but TFMPP is legal in US.



BZP & TFMPP

- Texas DPS laboratory items of Benzyloperazine (BZP) and trifluoromethylphenylpiperazine (TFMPP) identified.

	BZP	TFMPP
2007	19	2
2008	312	66
2009	436	87
1/2 2010	291	75

Source: NFLTS

Salvia Divinorum



- Family : Lamiaceae (mint)
- Most potent natural hallucinogen (dose 0.2-1mg)
- Clinical: Visual distortions; feeling of unreality; depersonalization, dissociation; motor in coordination.
- Many Salvia users try it only once because of unpleasant effects.
- Route: chewed or smoked; onset 1 minute; duration 1 hour.
- **73 calls to Texas Poison Centers in 2008; 7 in 2009; 13 in 2010.**

Other Drugs

- Sibutramine (diet suppressant) no longer available in US but coming in from China.
- Steroids-lab found in Dallas as well as from China and Thailand
- Khat seizures in Dallas
- Ketamine diverted from veterinarians.

What is **DxM**? **Dextromethorphan** is a psychoactive drug found in common over the counter cough medicines.

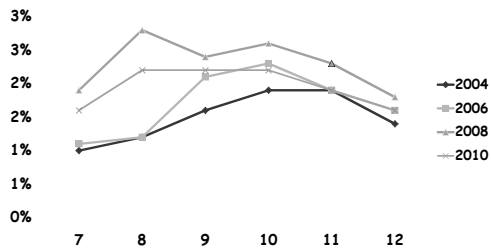


Source: [www.third-plateau.lycaeum.org/beginner/index.html](http://third-plateau.lycaeum.org/beginner/index.html)

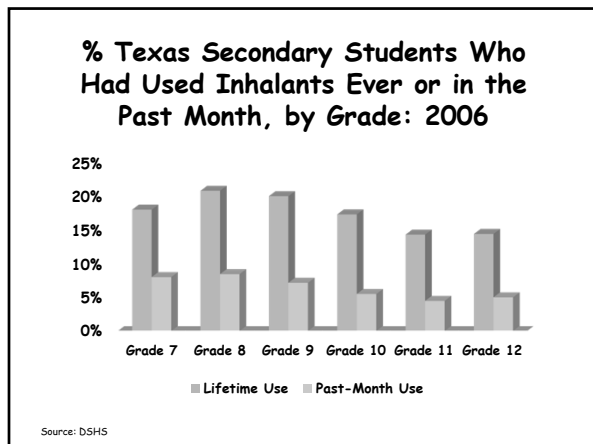
Dextromethorphan in Texas

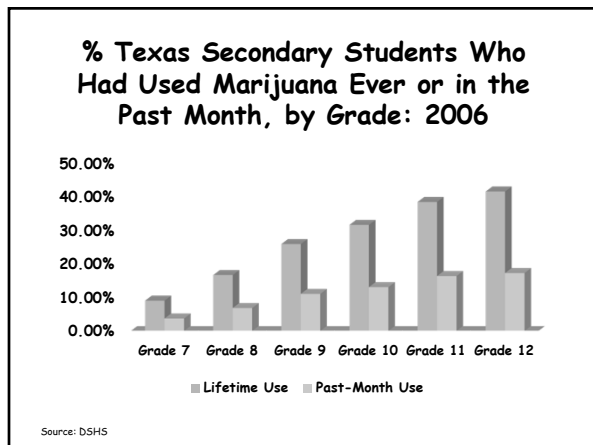
- At high doses, may produce dissociative hallucinations.
- Can produce tachycardia, hypertension, agitation, ataxia, and psychosis at high doses.
- Abuse/misuse calls for Coricidin HBP to Texas Poison Control Centers were 7 in 1998 and 146 in 2010; average age 17.7 years.
- Abuse/misuse calls for DXM were 99 in 1998 and 511 in 2010; average age 21.

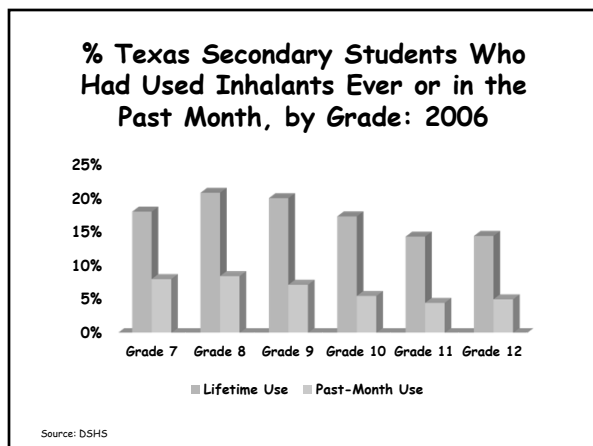
Past Month Use of Coricidin: Texas Secondary School Survey 2004-2010



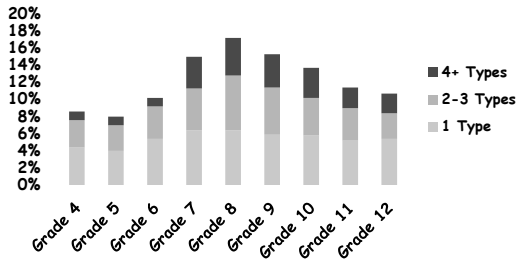
Inhalants







Percentage of Texas Students Who Had Ever Used Inhalants, by Grade and Number of Different Types Used: 2006



Source: DSHS

In Summary

- El Paso, Dallas, & Houston differ.
- Young heroin users increasing.
- Abuse of prescription drugs increasing.
- Plentiful meth with changing manufacturing —no decreases expected with P2P process
- Role of cigars and increased use of pot.
- Underage bingers—what to do?
- Drugged driving.
- “Chemical” drugs proliferate

To stay informed about
some of these new
chemicals, check
www.erowid.org

