

Monitoring Current Trends in Drug Abuse Using Different Data Sources

Jane C. Maxwell, Ph.D.
Texas Commission on Alcohol and Drug Abuse

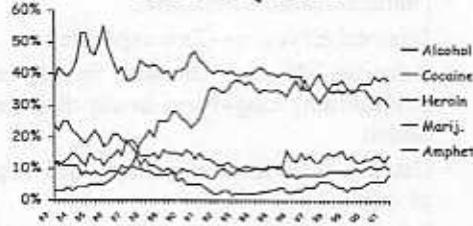
TCADA Surveys

Topic	Years
Secondary School Students	1988, 1990, 1992, 1994, 1996, 1998, 2000
Elementary Students	1990, 1992, 1994, 1996, 1998, 2000
Adult Household	1998, 1999, 1996, 2000
Prison Inmates	1988, 1994, 1998-2000
Adult Probationers	1994
Reform School Youth	1988, 1994, 2000
Adult & Adolescent Gambling	1992, 1995
Adult Border	1996-1998
Border School Students	1998, 2000
College & University	1997
Postpartum Survey	1990
Small-scale studies: heroin addicts, crack addicts, Kickapoo, Fry, Cough Syrup, Raves, adult inhalant abusers	

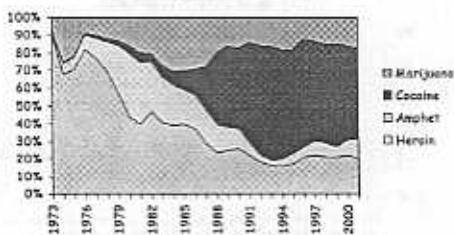
TCADA Secondary Data Sets

CODAP/TEDS Admissions to Treatment since 1972
Arrest Records by County
Motor Vehicle Accident Records by County
Overdose Death Records by individual case records
ADAM—positive drug screens on arrestees in Dallas, Houston, Laredo & San Antonio
DAWN—emergency room and medical examiner reports in Dallas area
AIDS/HIV by county
Poison Control Centers
NFLIS—Forensic Laboratory Reports by Police
Price and Purity and Seizure Data
Intelligence Reports from DEA and State Police

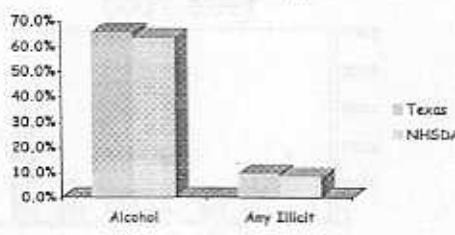
Texas Adult Admissions to Treatment by Primary Substance of Abuse 1983-2Q 2001



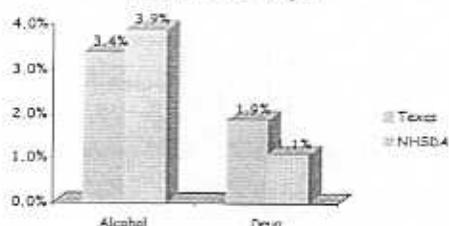
Primary Drug of Abuse at Admission to Treatment: Texas, 1973-2001



Past Year Use as Measured by 1999 National and 2000 Texas Adult Surveys



Dependence as Measured by 1999 National and 2000 Texas Adult Surveys



ECSTASY--The Ugachaka Phenomena

- Epidemic Outbreak
- Compulsive "I can't stop..."
- Youthful

ECSTASY (MDMA)

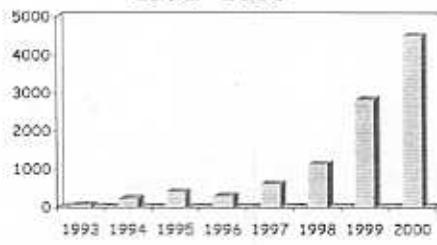
- XTC, X, Rollers, and now "e"
- Hallucinogenic stimulant.
- Desired Effects--Introspection
- Adverse Effects--Severe thirst, heat exhaustion, long-term brain disorders, death
- Usually tablets or capsules, but reports of injection of X.
- PMA; Flatliners; 4-MTA; SuperX 33

US Customs
MDMA
Doses
Seized
1998 -
2000

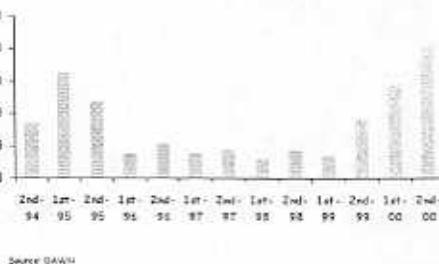
Tablets Seized 1998 1999 2000

750,000 5,400,000 9,300,000

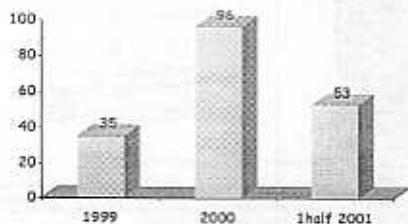
Mentions of MDMA in National Emergency Room Reports 1992-2000



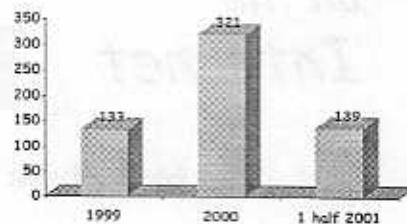
Dallas Emergency Room Mentions of Ecstasy: 1994-2000



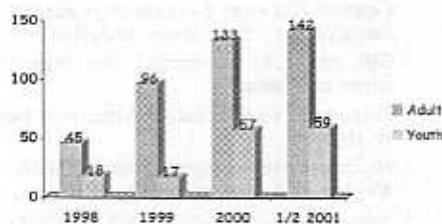
Texas Poison Control Center Mentions of Ecstasy



DPS Lab Ecstasy Exhibits



Texas Ecstasy Treatment Admissions: 1998-1st Half 2001



RAVES

- No longer underground—"Massives"
- Dancing—group dancing, "best moves", glow sticks
- Communal—tribes or crews, Peace, Love, Unity & Respect (PLUR)
- Sexuality (or lack of)
- Violence (lack of)
- Race and class

- Chill Rooms
- Alcohol not commonly consumed
- Ecstasy—1-2 pills/night by users
- DanceSafe pill testing
- Attendance by pre-teens and young teenagers
- "E-tards", "Candies", "Cracked Out"
- Is it music or drugs?
- www.dancesafe.org



Liquid X on the Internet

GHB Abuse

The screenshot shows a website for "BlueRaine Products". The header features the company logo and the text "BlueRaine Products". Below the header is a banner with the text "Great Household Cleaners" and "BlueRaine". A sub-banner below it says "Environmentally Safe and Non-Toxic Cleaners". To the left is a sidebar with links: "Order Now", "New Products", "Dishwashers", "Windex", "Laundry Detergent", and "Vinegar". The main content area contains text about the benefits of their products.

This screenshot is from a page titled "Other Uses For BlueRaine Products and Its Active Ingredient". It includes a heading "Gamma", a section on "Central Nervous System depressant--intoxication, then deep sedation.", and a bulleted list of other uses for GBL and GHB. The page also contains some legal disclaimers and product information.

GHB Quick-Check

- Gamma
- Central Nervous System depressant--intoxication, then deep sedation.
- GBL and 1,4, butanediol turn into GHB when swallowed.
- Failure to seek medical attention has led to deaths.
- Much greater danger if mixed with alcohol or taken on empty stomach.
- Now Schedule I Controlled Substance

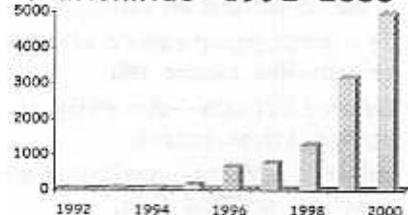
GHB, GBL, et al

- GBL (GHB precursor)--Fire Water, Revivarant, Revivarent G, RenewTrident, GH Revitalizer, GH Release, Gamma-G, InvigorateX-Depress, Furomax, Insom-X, Blue Nitro.
- 1,4 butanediol (tetramethylene glycol)--Revitalize Plus, Serenity, Enliven, GHRE, SomatoPro, NRG3, Weight Belt Cleaner, Thunder Nectar (pink, no label).

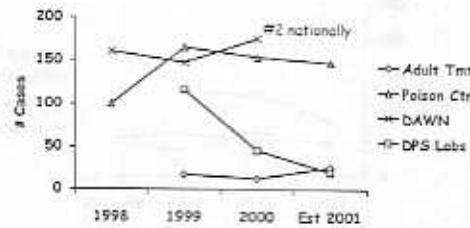
GHB Detox Protocol

http://www.tcadate.state.tx.us/research/GHB_Withdrawal.pdf

Mentions of GHB in DAWN Emergency Room Reports Nationwide: 1992-2000



Texas GHB Indicators



4 liter
jug
Of 1,4
BD



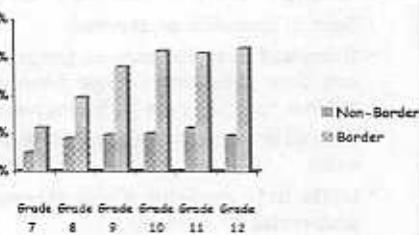
ROHYPNOL in TEXAS

- Cohorts who first used now in treatment—68% of adult & 89% of youth in treatment are on border.
- Blue Rohypnol pills popular—need fruit drinks to cover the dye.

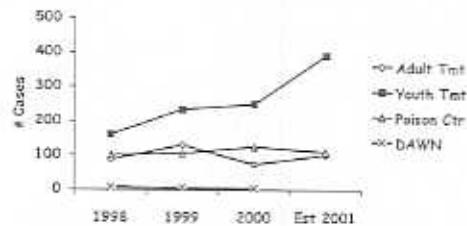
Rohypnol & Clonopin

- Rohypnol--roches, ripples, roofies.
- Clonopin--Rivotril, Pins.
- Rohypnol can no longer be imported legally from Mexico but Klonopin can.
- Desired Effects--Intoxication, especially when mixed with alcohol.
- Adverse Effects--Respiratory distress, amnesia, sexual assault.

% Texas Secondary Students Who Had Ever Used Rohypnol, by Grade: 2000



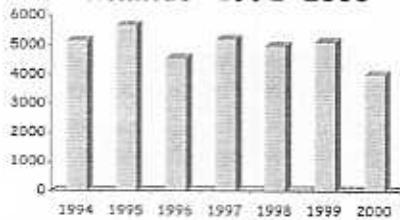
Texas Rohypnol Indicators: 1998-2001



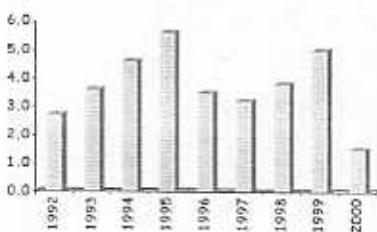
LSD

- Slang terms--Acid, Blotter, or name of picture on tab.
- Is a small paper square with picture or jello-like square tab.
- Desired Effects--distortion of senses, introspection.
- Adverse Effects--anxiety, panic reaction, or "Bad Trip."

Mentions of LSD in DAWN Emergency Room Reports Nationwide: 1992-2000



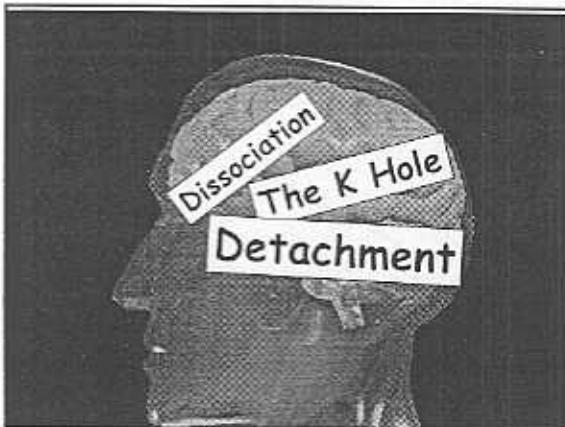
DAWN Emergency Room Mentions of LSD per 100,000 in Dallas



NEXUS

- 4-bromo-2, 5-dimethoxyphenylalanine.
- "Bromo", "2C-B", "Toonies", "Smart Drug".
- Sold in capsules or snorted.
- Stimulant & hallucinogenic properties that are dose dependent-range from effects like MDMA to LSD-type hallucinations.
- Available in adult bookstores, bars, dance clubs.
- Little data available about pharmacological properties or toxicity.

What are
they seeking?



DISSOCIATIVE DRUGS: PCP, Ketamine, DXM

Distort perceptions of sight and sound and produce feelings of detachment, but not hallucinations.

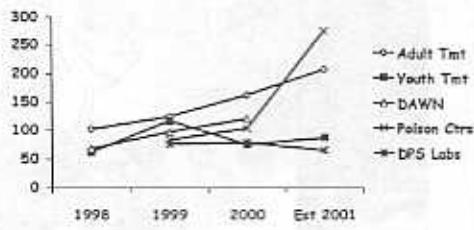
Phencyclidine

- PCP, Angel Dust, Killer Weed
- Swallowed, sniffed, smoked, dissolved in embalming fluid ("Fry").
- Veterinary anesthetic.
- Unpredictable. Can act as stimulant, depressant or hallucinogen. Can cause mood swings, agitation, violent behavior.

FRY, AMP, WATER-WATER

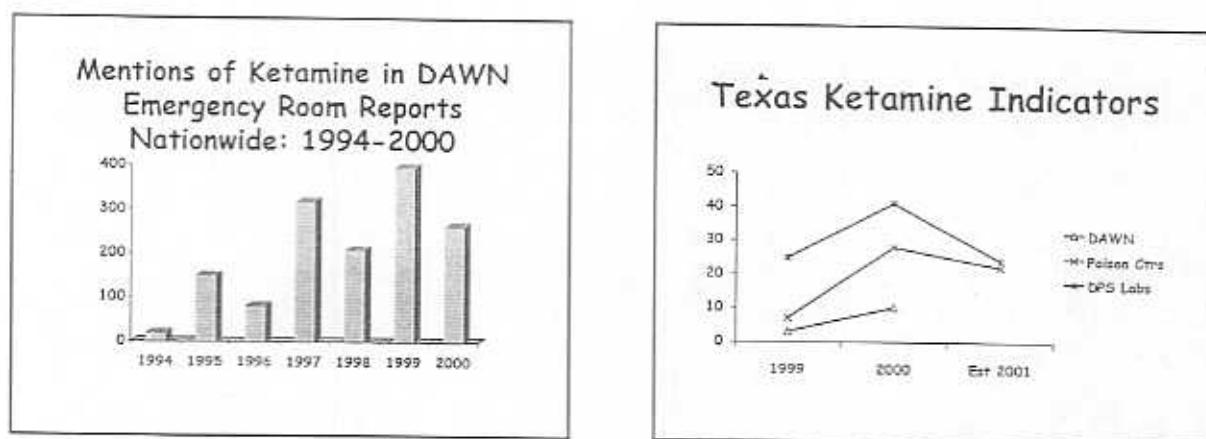
- Embalming fluid-like hallucinogens: brilliant, unique colors, distorted vision.
- Different behaviors-intensifies innate personality v. strange or violent behavior.
- PCP found in one sample analyzed.
- Stolen from morgues and funeral homes.
- Brain damage? Like long-term inhalant abuser.

Texas PCP Indicators



SPECIAL K (Ketamine)

- Veterinary anesthetic with hallucinogenic properties like PCP.
- Available as powder to snort or as liquid to inject; used with "puffers" to get exact dosing.
- Desired Effects--Stimulation, disorientation, hallucinations, dissociation.
- Adverse effects--High blood pressure, respiratory failure.



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

Source: www.hhs.gov/sab/advisory/degreeofrisk.html

DxM

- "Robotrip" - high dosages can produce hallucinogenic effects
- Part of family of psychoactive compounds called "dissociative anesthetics."
 - Marked by ability to dissociate the mind from the body.
- Some effects have been described as similar to those of ketamine (Special K) and PCP.

Source: www.oas.samhsa.gov/2k/pain/degreeofrisk.html

DxM

The DxM experience is described as occurring on levels, or plateaus depending on the amount of the dose taken.

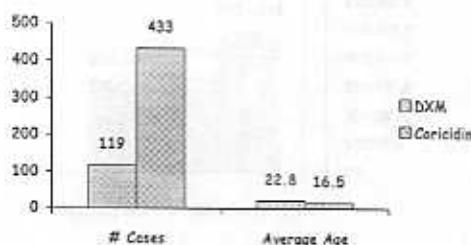
- Each plateau is different from another. There are 4 major plateaus + a 5th one that is generally unpleasant and involves a possible trip to the hospital

Source: www.oas.samhsa.gov/2k/pain/degreeofrisk.html

DxM induced artwork

Source: www.oas.samhsa.gov/2k/pain/degreeofrisk.html

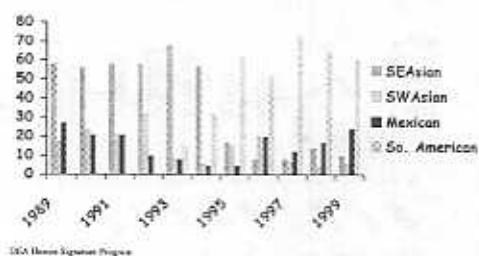
Texas Poison Control Center Abuse and Misuse Cases of DXM & Coricidin in 2000



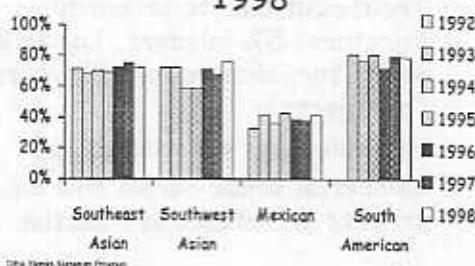
The Normalization of Heroin



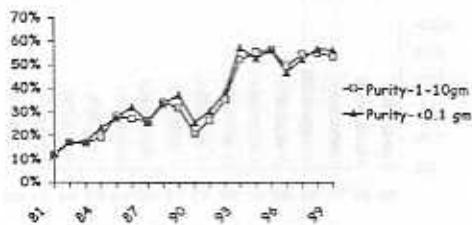
Sources of Heroin Seized in US Based on Net Weight



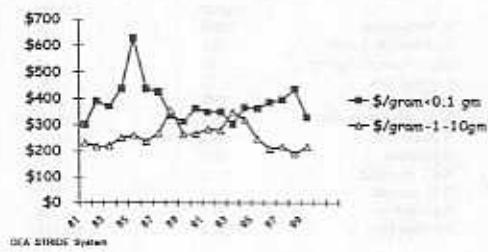
Average Purity of Heroin Samples in the US: 1992-1998



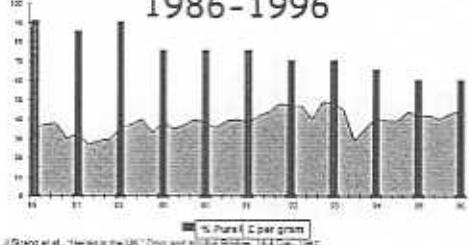
Average Purity of Heroin in the US: 1981-1999



Average Price of Heroin in the US: 1981-1999

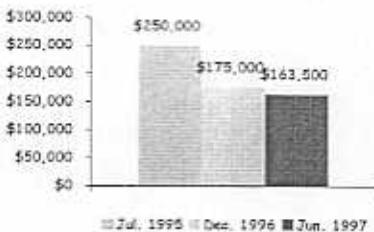


Price & Purity of Black Market Heroin in the UK 1986-1996



(String et al., "Heroin in the UK," Drug and Alcohol Survey, 1998, Qinetiq Ltd.)

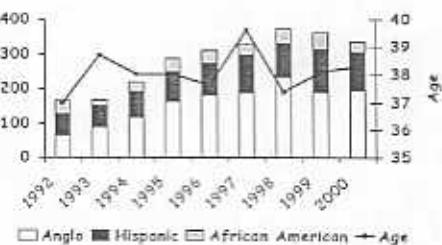
Wholesale Price of Heroin (kg.) in Hong Kong



HEROIN IN TEXAS TODAY

- Treatment admits primarily injectors; 5% inhalers. Lag is 8 years for inhalers and 15 years for injectors.
- Hispanic first admissions up.
- Colombian white heroin now on streets in Dallas and Houston.

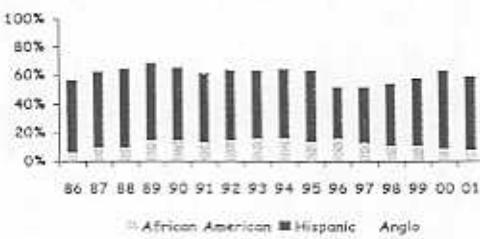
Age & Ethnicity of Texas Deaths with Mention of Heroin or Narcotics 1990-2000



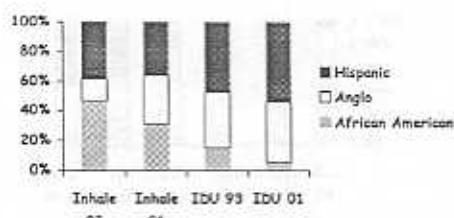
Characteristics of Adult Clients Admitted to TCADA-Funded Treatment with a Primary Problem of Heroin-Jah-August, 2001

	Inject	Inhale
# Admissions	2566	146
% of Heroin Admits	95%	5%
Lag-1st Use to Trt-Yrs	15	8
Average Age	36	30
% Male	70%	60%
% African American	5%	29%
% Anglo	36%	30%
% Hispanic	49%	34%
% CJ Involved	34%	21%
% Employed	14%	14%
% Homeless	14%	5%
Average Income	\$3,308	\$5,333

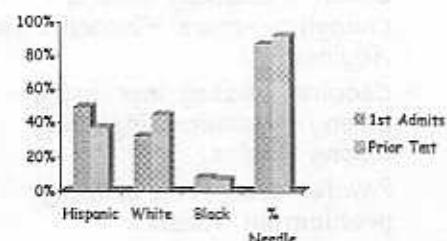
TCADA Heroin Admissions by Ethnicity 1986-2001



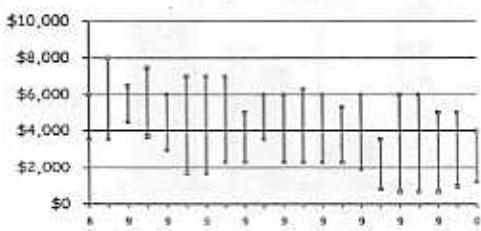
Race-Ethnicity of TCADA Heroin Admissions: 1993 v. 2001



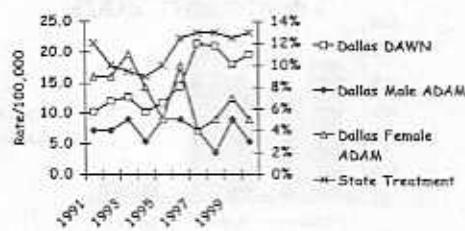
New TCADA Heroin Admissions v. Readmissions: 2001



Variation in Price of an Ounce of Black Tar Heroin in Texas 1987-2001

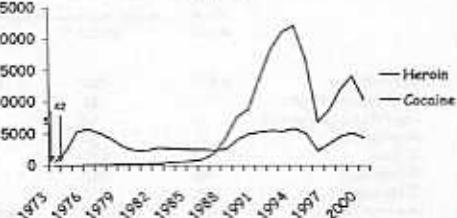


Texas Heroin Indicators



COCAINE
Still Around—
with New Users

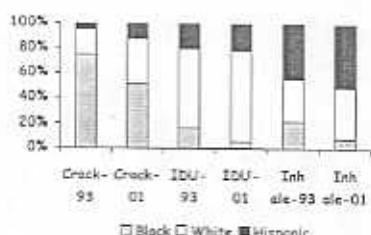
Texas Heroin & Cocaine Treatment Admissions: Cocaine was not on the scene in the early 70s



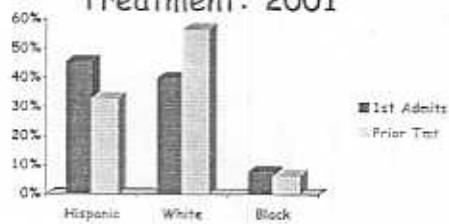
COCAINE IN TEXAS

- Crack treatment clients changing--more Hispanics and Anglos.
- Cocaine inhaling increasing among Hispanics; injecting among Anglos.
- Powder cocaine is growing problem on Border.

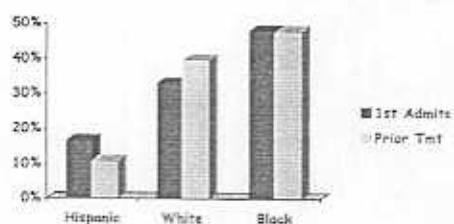
Race-Ethnicity of TCADA Cocaine Admissions: 1993 v. 2001



New TCADA Powder Cocaine Admissions v. Prior Treatment: 2001



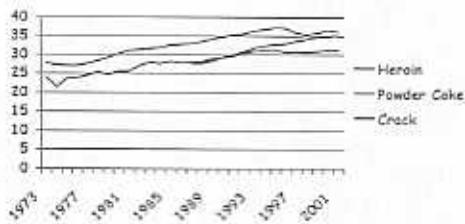
New TCADA Crack Admissions v. Prior Treatment: 2001

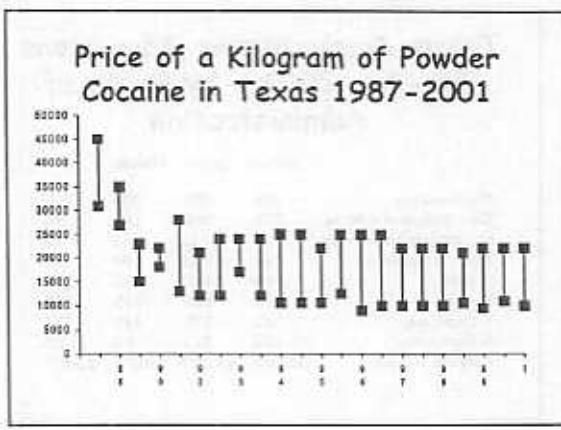
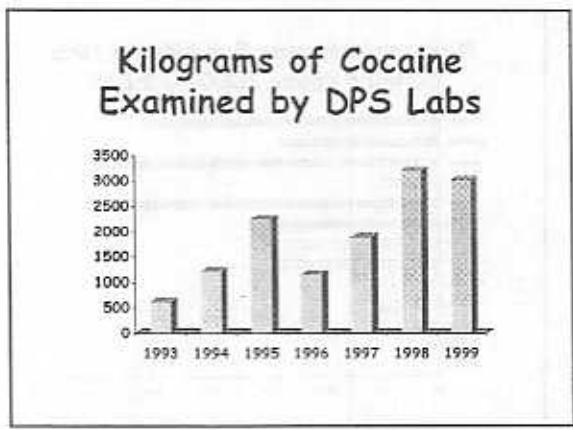
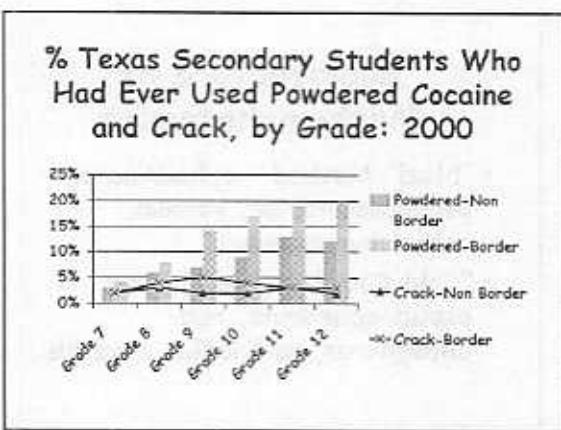
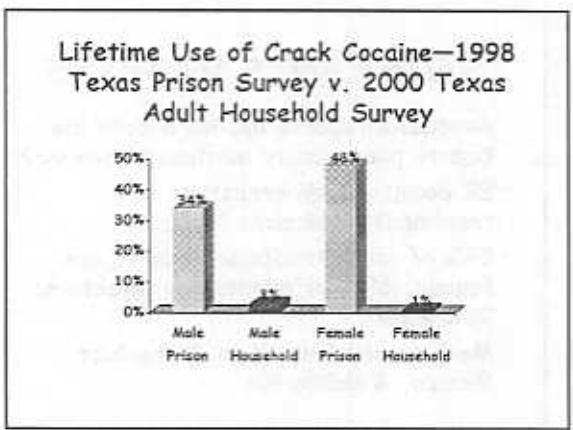
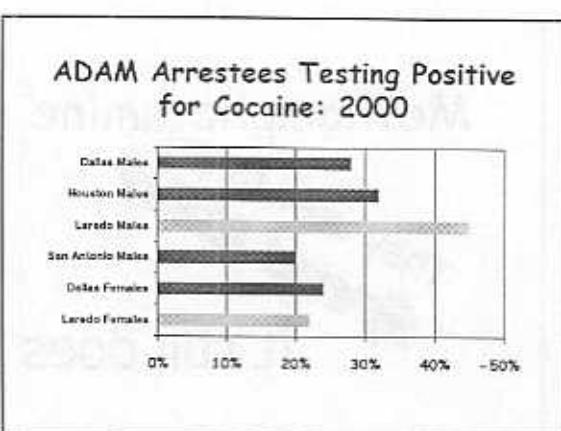
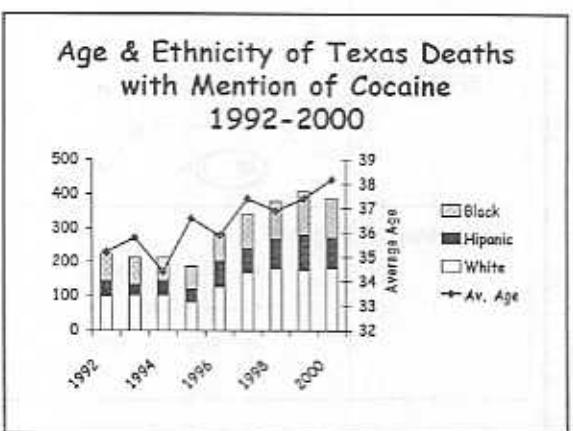


Characteristics of Adult Clients Admitted to TCADA-Funded Treatment with a Primary Problem of Cocaine: Jan-August 2001

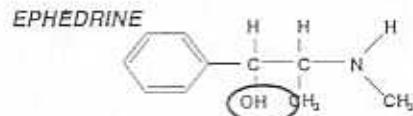
	Crack Smoke	Powder Cocaine Inject	Powder Cocaine Inhale
# Admissions	4,657	563	1,049
% of Cocaine Admits	74%	9%	17%
Log-1st Use to Tmt-Yrs:	10	13	9
Average Age	26	24	31
% Male	55%	63%	61%
% Employed	14%	19%	33%
% Homeless	17%	12%	5%
Average Income	\$4,510	\$6,723	\$7,763

Age at Admission of Texas Heroin and Cocaine Clients: 1973-2001

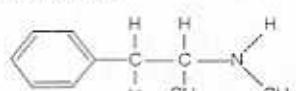




Methamphetamine They used to say **Speed Kills?** It still does



METHAMPHETAMINE



Manufacture of Methamphetamine

- "Nazi" Method--ephedrine or pseudoephedrine, lithium, anhydrous ammonia
- "Cold Cook"--ephedrine or pseudoephedrine, red phosphorus, and iodine crystals.

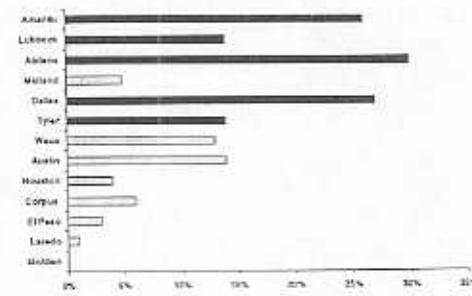
STIMULANTS IN TEXAS

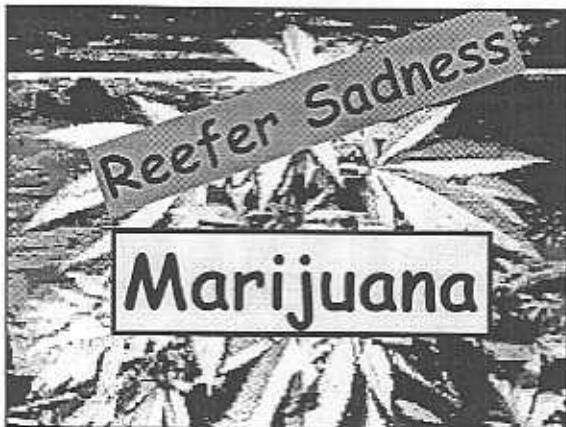
- Anecdotal reports up; hard data low. Due to poor quality methamphetamine?
- ER down; ADAM arrestees & treatment admissions level.
- 54% of meth treatment admits are female; 59% of admits are injectors; 92% Anglo.
- Meth comes from Mom & Pop labs, Mexico, & California.

Texas Amphetamine Admissions Jan-Aug 2001--by Route of Administration

	Smoke	Inject	Inhale	Oral
# Admissions	318	911	196	134
% of Stimulant Admits	20%	58%	12%	8%
Log-1st Use to Tmt-Yrs.	9	12	9	8
Average Age-Yrs.	29	31	30	33
% Male	44%	44%	54%	52%
% Anglo	90%	95%	89%	61%
% Employed	23%	17%	39%	12%
% Homeless	13%	10%	6%	2%
Average Income	\$6,075	\$4,390	\$6,224	\$5,472

Methamphetamine Exhibits by DPS District Labs—2000--NFLIS



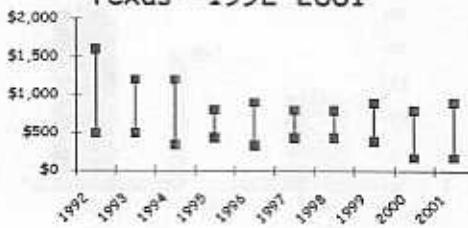


MARIJUANA IN TEXAS

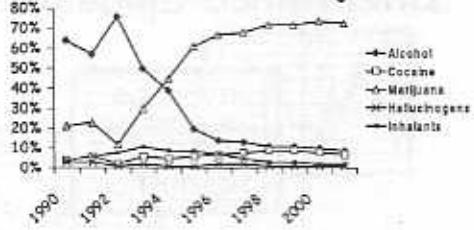
- DAWN and ADAM down from peak but still high, adolescent treatment at 73%--juvenile justice referrals.
- Use with Fry, PCP, DANK, crack, cough syrup, honey, etc., continues.
- Marijuana secondary school use down, especially among younger teens.

- Primos--marijuana joint and crack.
- Fry, Amp--joint and embalming fluid (PCP?)
- Fry Sticks & Fry Squares--\$10 each.
- Fry Sweets--blunts in embalming fluid.
- Sweet Houses--sell ready-mades.
- Candy Blunts--cigarillos in codeine cough syrup.
- Sherms--menthol cigarettes in embalming fluid.

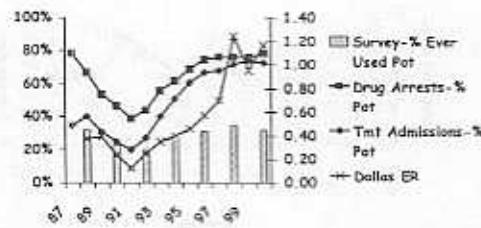
Variation in the Price of a Pound of Commercial Grade Marijuana-Texas--1992-2001



Adolescent Treatment Admissions: 1990-2001 Influence of Marijuana



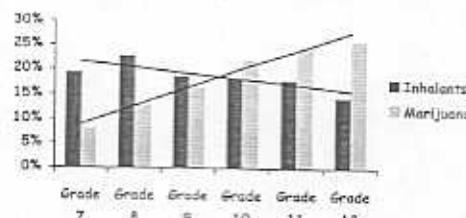
Texas Juvenile Marijuana Use



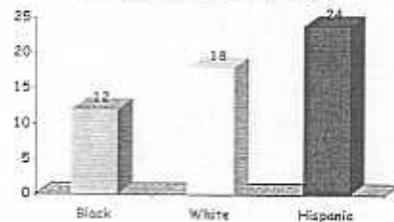
INHALANTS

Not always who or what we think!

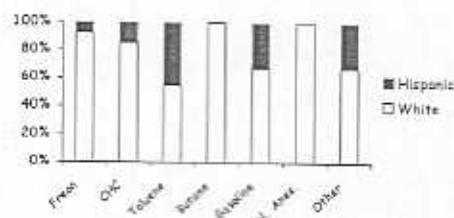
% Texas Secondary Students Who Had Ever Used Inhalants or Marijuana by Grade: 2000



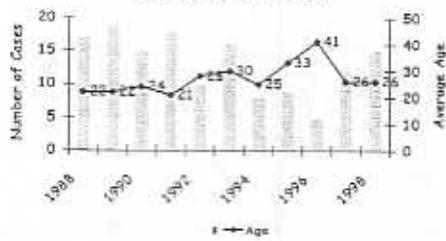
Lifetime Use of Inhalants: Texas Secondary Students-2000



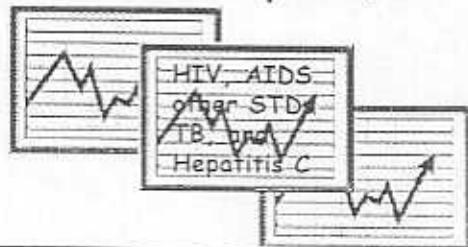
Ethnicity of Texas Deaths with Mention of Inhalants: 1988-1998



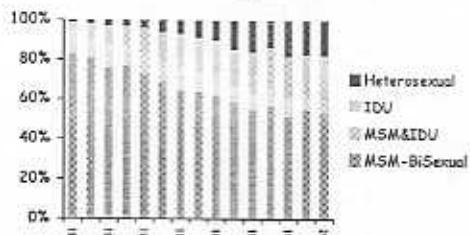
Texas Deaths With Mention of Inhalants: 1988-1998



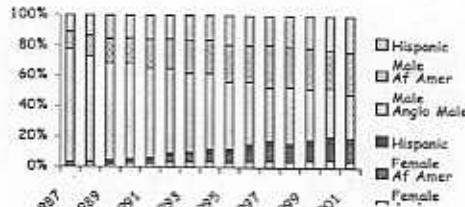
Drug Abuse and AIDS: Intertwined Epidemics



Texas AIDS Cases 1987-1Q 2001



Texas AIDS Cases by Gender & Race/Ethnicity 1987-1Q 2001



Epi Research to Practice

- Can crack treatment programs shift to serve Hispanic clients?
- Treatment for patients dependent on pot.
- Small town and rural programs equipped to treat methamphetamine?
- Detox protocols for club drugs?
- Prevention message that club drugs & inhaled heroin can be addictive
- Shift from needles re: AIDS programming
- Impact of pharmaceuticals coming in from Mexico and Canada

For more Texas information:

WWW.TCADA.STATE.TX.US