



Methamphetamine and the CMEA



Pharmacy Diversion Awareness Conference

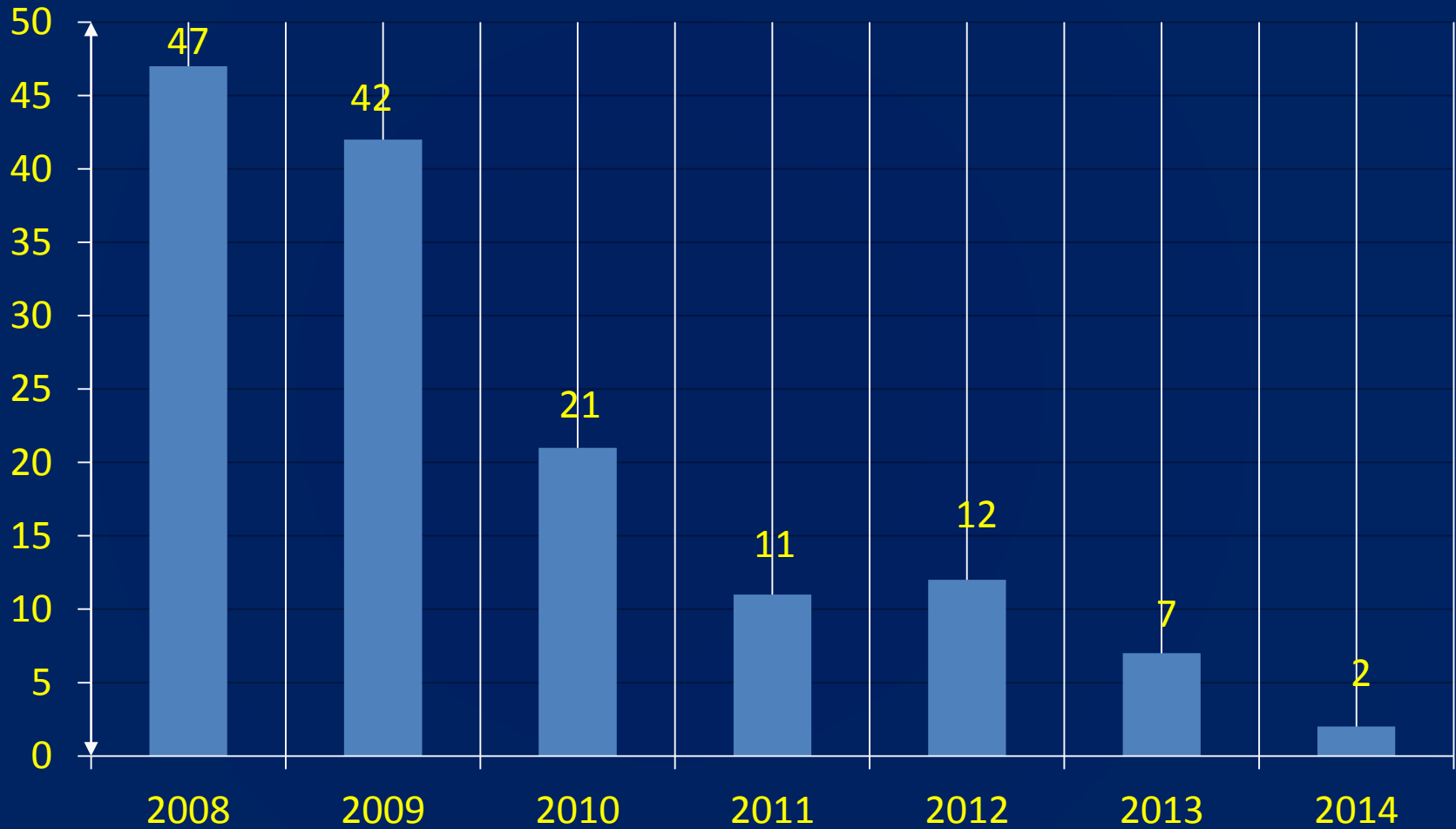
Denver, Colorado – August 2, 2014

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Synthetic Drugs and Chemical Section
U.S. Drug Enforcement Administration



Colorado

Meth Lab Seizures by Year



Source: NSS-EPIC
Query Date: July 1, 2014



U.S. Methamphetamine Production

- U.S. production of methamphetamine increased dramatically over past two decades
- Small Production Capacity Labs (SPCLs) emerge; also known as “One Pot Method” and “Shake & Bake Labs” (gram to multi-gram methamphetamine yields)
- 2004 - record number of labs seized in U.S.
 - (2004 - 15,790)



2005 - US Addresses Methamphetamine Production

- Congress passes Combat Methamphetamine Epidemic Act of 2005 (effective March 2006)
 - The CMEA restricts the sales of pseudoephedrine and ephedrine in the U.S.
 - In 2006, the U.S. sees a 53% reduction in methamphetamine labs from the previous year
 - 2005 – 10,678 labs 2006 – 5,027 labs
 - 2007 a decrease of another 23%



What is the purpose of the CMEA?

**To limit the domestic
manufacture of
methamphetamine by placing
restrictions on the sale of
Pseudoephedrine, ephedrine and
phenylpropanolamine at retail
outlets.**



CMEA - Point-of-Sale Requirements

- Daily sales limit 3.6 grams per day per customer
 - 146 x 30-mg tablets of Pseudo HCl
 - 73 x 60-mg tablets of Pseudo HCl
- Buyers cannot purchase more than 9 grams of PSE over 30 day period
- Sold in “blister” pack only – cannot be sold in bottles





CMEA - Point-of-Sale Requirements

- PSE behind-the-counter OR locked file cabinet on open floor
- Maintain written or electronic log book of PSE sales
 - Drug product name -- Name & address of buyer
 - Quantity -- Date & time of sale

Exemption for 2 pill packages up to 60-mg PSE (“airport exception”)

- Buyer presents Photo ID issued by gov’t
 - Seller checks name [but not signature]
- Buyer signs logbook
 - Logbook contains notice of criminal penalties under 18 U.S.C. 1001, including max. fines and penalties
 - Seller retains logbook at least 2 years



Initial CMEA Results

- In 2006, the U.S. sees a 53% reduction in methamphetamine labs from the previous year (2004 15,790)
 - 2005 – 10,693 labs
 - 2006 – 5,031 labs
 - 2007 – 3,876 labs





CRIMINALS ADAPT TO CMEA

Change is the only
constant in the drug
world.



Smurfing





2008 Clandestine Lab Seizures Increase

- Criminal Subculture learns to circumnavigate CMEA
- “Smurfers” emerge to supply clandestine lab cooks with pseudoephedrine
 - Individuals go to multiple stores purchasing amounts allotted by the CMEA
 - Multiple identifications used to purchase PSE
 - Small Production Capacity Labs increase (labs only)
 - (2008 – 5,417 labs) (2009 – 8,512 labs)
 - (2010 – 10,511 labs) *(2011 – 9,153 labs)
 - *(2012 – 8,385 labs)

* Due to the exhaustion of Federal funds provided by the Department of Justice, Community Oriented Policing Services (COPS), to the DEA, for cleaning up methamphetamine laboratories, the number of methamphetamine labs that have been reported to EPIC does not necessarily reflect the total number of labs that have been discovered/seized, by law enforcement for years 2011 and 2012.



What is a Smurf?



- A smurf is someone who buys small quantities of ingredients (e.g., PSE, ice packs, lithium, matches, iodine), from several different locations, in order to manufacture, or more likely, assist in the manufacture of methamphetamine.
- Multiple IDs used to buy PSE and EPH



2008 Clandestine Lab Seizures Increase

- Criminal Subculture learns to circumnavigate CMEA
- “Smurfers” emerge to supply clandestine lab cooks with pseudoephedrine
 - Individuals go to multiple stores purchasing amounts allotted by the CMEA
 - Multiple identifications used to purchase PSE
 - Reported Small Production Capacity Labs increase (labs only)
 - (2008 – 5,417 labs) (2009 – 8,516 labs)
 - (2010 – 10,519 labs) *(2011 – 9,158 labs)
 - *(2012 – 9,121 labs) **(2013 – 7,909 labs)

* Due to the exhaustion of Federal funds provided by the Department of Justice, Community Oriented Policing Services (COPS), to the DEA, for cleaning up methamphetamine laboratories, the number of methamphetamine labs that have been reported to EPIC does not necessarily reflect the total number of labs that have been discovered/seized, by law enforcement for years 2011 and 2012.



Methamphetamine Facts

- Schedule II controlled substance
- Methamphetamine is the most widely abused, domestically produced synthetic drug in the United States.
- Has a high rate of addiction, a low rate of sustained recovery, and is relatively inexpensive to manufacture.



U.S. Methamphetamine Problem

The U.S. methamphetamine threat is a two prong problem:

- Methamphetamine manufactured by Mexican Trafficking Organizations (large “Super Labs” in Mexico & liquid conversion labs the U.S.)
- Small Capacity Production Labs (SCPLs) (based in the U.S.)



Methamphetamine from foreign trafficking organizations

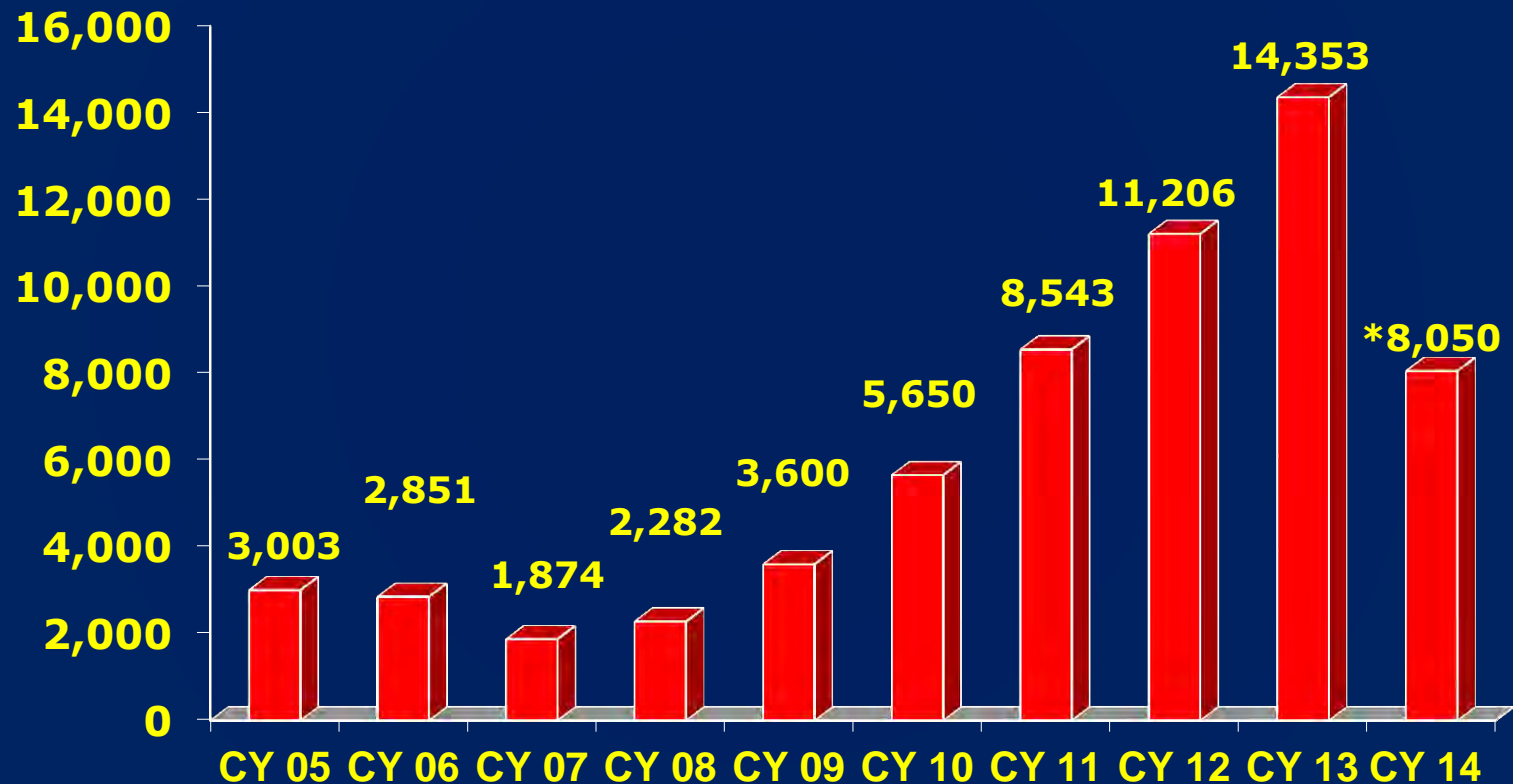


March 2007, \$205 Million+





Methamphetamine Seizures Along the U.S. SW Border (Kilograms)



Source: NSS-EPIC

Query Date: July 1, 2014

Statistics are for Texas, New Mexico, Arizona and California.



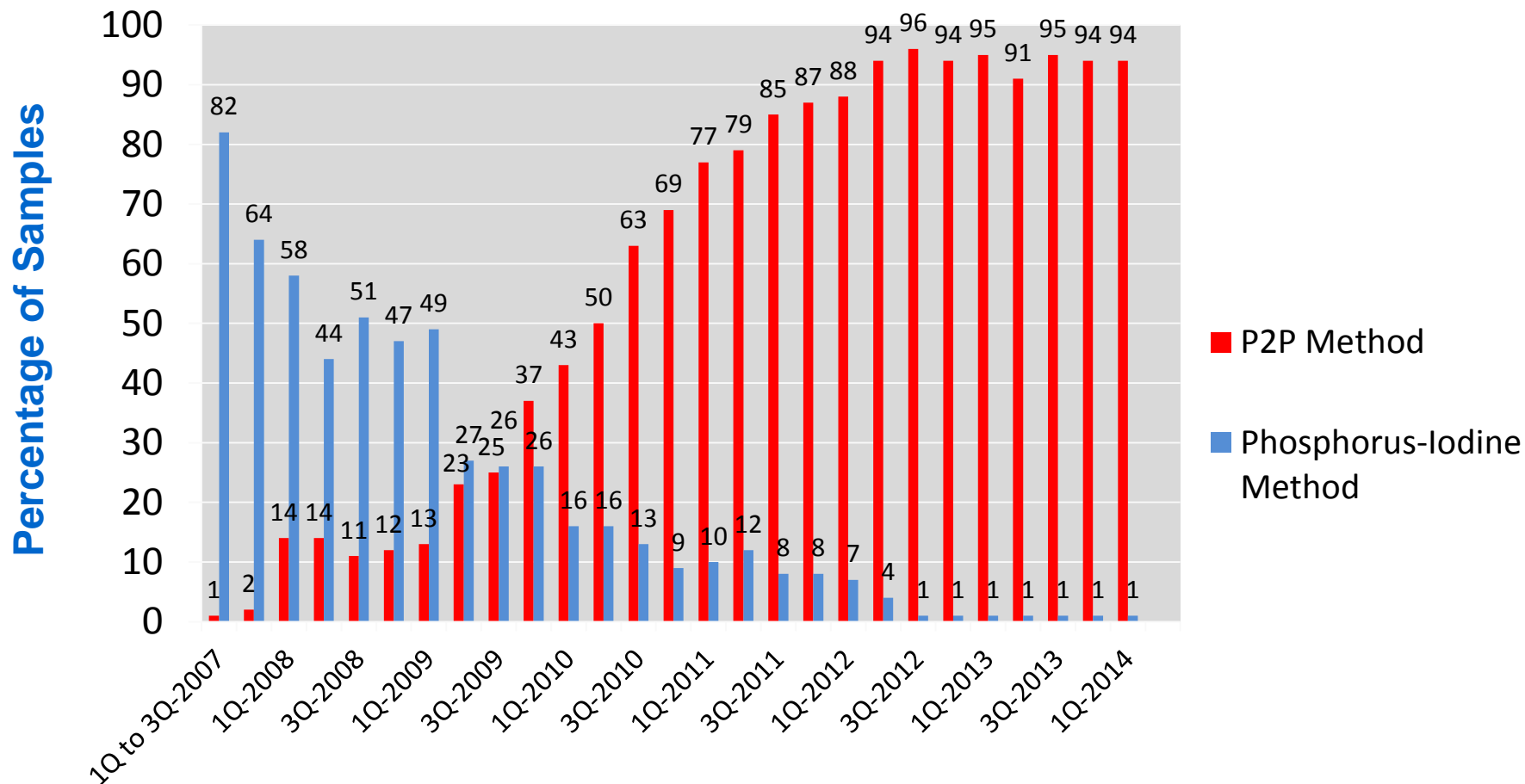
P2P Route Affects Potency

- Ephedrine and Pseudoephedrine-based routes always produce “potent” meth (d-meth only)
 - Predominant method prior to 2006
 - Still used today in small, domestic labs (one pot, Smurfing)
- P2P-based routes form “less-potent” methamphetamine
 - Half of the sample is d-meth and half is l-meth
 - l-meth 2 to 10 times less potent than the d-isomer
 - At high doses, l-meth stimulant effects are similar to d-meth but are short lived (**therefore, l-meth not preferred by users**)*

*Human pharmacology of the methamphetamine stereoisomers, J. Mendelson, MD, et al, Clin Pharmacol Ther **2006**:80:403-420.



P2P vs. PSE/EPH





Domestic Methamphetamine



Domestic Meth

- The “New” Methamphetamine
 - 3 to 4 times easier to make and 3 to 4 times more potent than the old drug
 - Common chemicals purchased over the counter
 - 1 to 4 hours to cook a batch (old method took 20 hours)
 - Accounts for 98% of all reported clandestine labs.



Let's Make Meth!



MORE WATERMARKS @ DAMNLOL.COM

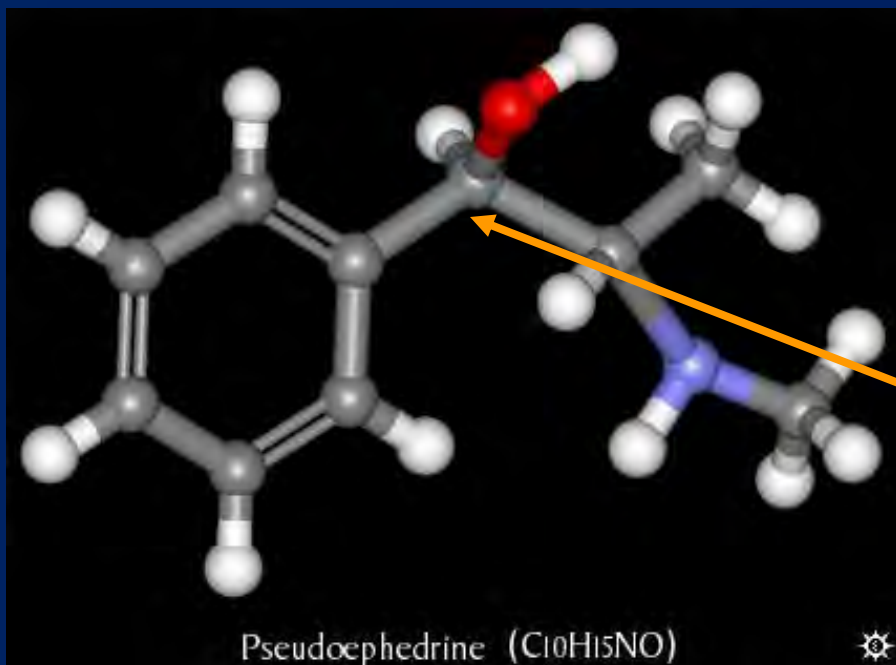




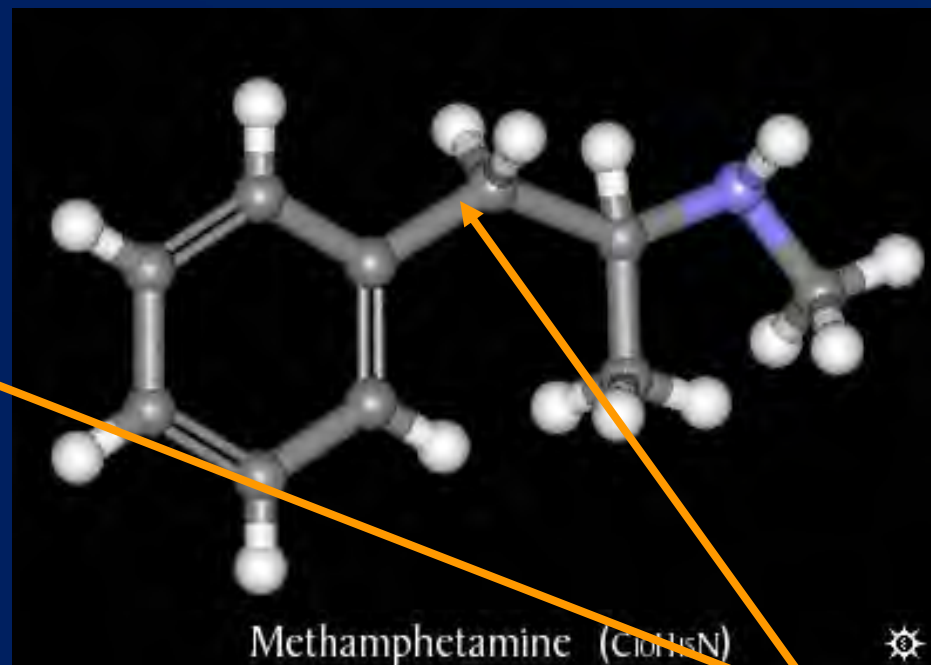
What's the Big Deal with Pseudoephedrine?

Molecular Comparison

Pseudoephedrine



Methamphetamine



What's the big deal with Pseudoephedrine? The answer is basically **One Oxygen Molecule**. The molecular similarity of pseudo to meth is so close that using today's common methamphetamine manufacturing methods ("Shake & Bake" Red-Phosphorus or Anhydrous / Nazi method) simply reduce the molecular structure of pseudoephedrine/ ephedrine by one Oxygen molecule to create Methamphetamine.



Ingredients for One Pot Method

- Combine
 - PSE tablets – whole or ground up
 - Solvent – ether, camp fuel
 - Lithium (Batteries)
 - Sodium Hydroxide
 - Ammonium Nitrate (cold packs)
 - Water
- Exothermic Reaction
 - Filter off liquid
 - Use HCl generator to crash out Meth



Small Production Capacity Lab (SPCL) aka “One Pot”

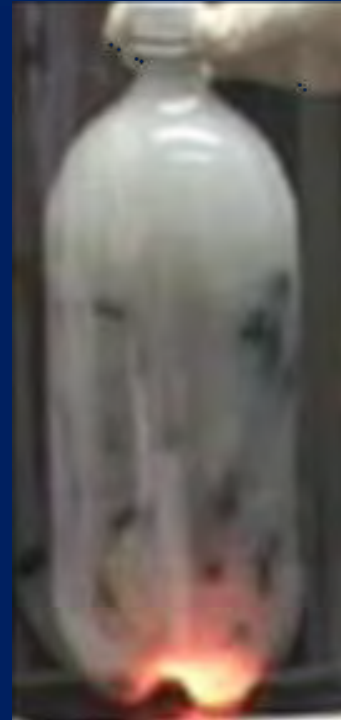
- Utilize 16 to 20 ounce, or 2 liter drink bottles as the vessels to synthesize the drug
- Only produce gram to multi-gram quantities of methamphetamine





One-Pot labs are EXTREMELY Dangerous

- One-Pot labs extremely Dangerous
- Clan lab stats increase in many states
- Reactive to water/moisture
- Meth labs catching fire at a higher rate
- 50% Failure (if it hasn't – it will catch fire)





“One Pot” Damage





What do “One Pot” Lab sites look like?







SPCL “One Pot” - waste

- Generate toxic waste
 - *1 lb of Meth Produced*
 - *Yields 5- 6 Pounds of Toxic Waste*





***WHERE CAN YOU GET METH
MANUFACTURING MATERIALS?***

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5⁹⁹

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Where can you find Meth Labs?

Houses



Barns



We have encountered labs in . . .

Storage Units



"Vacant" Buildings





Camper



Cars

We have encountered labs in . . .



Trailers



Motels



Methamphetamine Laboratories are Endangering our Communities - Florida & Alabama

“Meth lab explodes inside South Jacksonville apartment”



August 17, 2011 The Florida Times Union

“Janitor finds meth lab in Walmart bathroom”



WHNT April 11, 2012
Boaz, Alabama



Methamphetamine Laboratories are Endangering our Communities

Washington, D.C & Nation

“Meth Lab Explosion Rocks Luxury
Apartment in Dupont Circle
Apartment”



February 2, 2012
Inthecapital.com

“ AP Exclusive: National Meth Labs
Busts up in 2011”



February 22, 2012
Associated Press



Methamphetamine Laboratories are Being Found Near & At Schools in Georgia

“Police bust meth lab next to elementary school”



“Meth lab found in truck at South Effingham Middle School”

“Lawrence Lanier, 34, had two small children in his truck within arm’s reach of a meth lab when he was arrested at South Effingham Middle School, Effingham County Sheriff’s Office spokesman David Ehsanipoor said.”

WTOC.com March 29, 2012
Kingsland, Georgia

Savannahnow.com April 10, 2012



Methamphetamine Laboratories are Harming Our Environment Tennessee & Kentucky

**“Man Dumped Meth Waste
Into Trout Stream.”**



“My concern is this is a trout stream, there are kids that fish this area,” said Sheriff Hensley”

April 25, 2012 WCYB.com

“Dumping meth labs – Materials pose threat to environment, including water supply, fish and wildlife”



“The bad news is for the public Loving said, because the chemicals left behind are now in the river where people fish and swim.”

BG DailyNews.com August 19, 2011



Meth labs are Dangerous





Back to the CMEA . . .



CMEA Resource



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[Registration Changes \(Address, Drug Code, Name, Schedule\)](#)

[CMEA \(Combat Meth Epidemic Act\)](#)

[Customer Service Plan for Registrants](#)

[Duplicate Certificate Request](#)

[Duplicate Receipt of Registration](#)

[Offices with Field Registration Program Specialists](#)

[Order Forms \(DEA 222\)](#)

[Registration Validation](#)

What's New

S & B Pharma, Inc. (July 8, 2014)

Placement of Tramadol Into Schedule IV (July 2, 2014)

Proposed Aggregate Production Quotas for Schedule I and II Controlled Substances and Assessment of Annual Needs for the List I Chemicals Ephedrine, Pseudoephedrine, and Phenylpropanolamine for 2015 (July 2, 2014)

30-Day Notice - eComments Requested: Submission for OMB Approval (June 23, 2014)

30-Day Notice - eComments Requested: Submission for OMB Approval; ARCOS Transaction Reporting (June 23, 2014)

In The News

Las Vegas Doctor Pleads Guilty to Drug Conspiracy Charges for Writing Unlawful Oxycodone Prescription (July 1, 2014)



DEA Forms & Applications



Publications & Manuals



Questions & Answers



Meetings & Events

Quick Links

[ARCOS \(Automation of Reports & Consolidated Orders System\)](#)

[Cases Against Doctors](#)

[Chemical Control Program](#)

[CSOS \(Controlled Substances Ordering System\)](#)

[EPCS \(Electronic Prescriptions for Controlled Substances\)](#)

[DEA Form 106: Report Theft or Loss of Controlled Substances](#)



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CMEA (Combat Methamphetamine Epidemic Act of 2005)

Title VII of Public Law 109-177

[The Combat Methamphetamine Epidemic Act of 2005](#)

[Sales of Scheduled Listed Chemical Products](#)

[Required Training and Self-Certification](#)

[Law Enforcement Queries Regarding Self-Certification](#)

[Import and Production Quotas for the List I Chemicals Ephedrine, Pseudoephedrine, and Phenylpropanolamine](#)

[Importation, Exportation, and International Transactions Involving all Listed Chemicals](#)

The Combat Methamphetamine Epidemic Act of 2005

[USA Patriot Improvement and Reauthorization Act 2005 \(Public Law 109-177\) \(PDF\)](#)

[General Information Regarding the Combat Methamphetamine Epidemic Act of 2005 or PDF Version](#)

o:050906:091906:041107

Sales of Scheduled Listed Chemical Products

[Implementation of the Methamphetamine Production Prevention Act of 2008](#) (December 1, 2011)

[Interim Final Rule - Self-Certification and Employee Training of Mail-Order Distributors of Scheduled Listed Chemical Products](#) (April 26, 2011)

- [Cases Against Doctors](#)
- [Chemical Control Program](#)
- [CMEA \(Combat Meth Epidemic Act\)](#)
- [Controlled Substance Schedules](#)
- [DATA Waived Physicians](#)
- [Drug Disposal Information](#)
- [Drug and Chemical Information](#)
- [E-commerce Initiatives](#)
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- [Title 21 Code of Federal Regulations](#)
- [Title 21 USC Codified CSA](#)



How do I store these drug products?

- You must store drug products containing ephedrine, pseudoephedrine, and phenylpropanolamine either behind the counter or in a locked cabinet.
- You must give the drug product directly to the customer who signed the logbook or who provides identification.



Identification and Verification

- Your customer must show you a photo identification issued by a State or the federal government.
- You cannot sell Scheduled Listed Chemical Products containing ephedrine, pseudoephedrine, or phenylpropanolamine to customers unless they present appropriate identification.
- You must verify that your customer's name on the photo identification matches the name your customer wrote in the logbook.
- You must verify that the date and time of the sale that your customer wrote in the logbook are correct.



Self-Certification Requirement

CMEA Required Training & Self-Certification

For questions contact Help Desk - 1-800-882-9539

Self-Certification (Training Required Prior to Self-Certification)

\$21 self-certification fee established for regulated sellers of scheduled listed chemical products (SLCPs) that are not DEA pharmacy registrants

Training Required to Sell Drug Products Containing Ephedrine, Pseudoephedrine, and Phenylpropanolamine

Retail Vendors (Only one certificate per Retail Store is required)

Mobile Retail Vendor (Self-certification required for each location)

Mail-Order Vendors

o:081606:091906:020209,121410



Meth's Effects



Meth is highly Addictive

- When compared to Alcohol and Cocaine:
 - A group of 100 people given a drink of alcohol every day for 3 weeks, **8 of the 100** will become addicted.
 - A group of 100 people given meth or cocaine orally or as snuff every day for 3 weeks, **14 of the 100** will become addicted.
 - A group of 100 people given meth by smoking or injection just 2 times, **90 of the 100** will become addicted.
 - If a recovering meth addict, who has been clean for 11 months, has a hit of meth in placed in front of them, the desire to use it will cause the addict to use it, **100%** of the time.



Meth Abuse side effects . . .



Meth Labs are Costly to Our Counties, State & Government Vanderbilt Burn Center



“Every day we beat our heads against the wall, dealing with these people,” said Kim Hayes, a registered nurse and case manager at the burn unit. “Right now, there are no consequences for these people. You blow yourself up in a meth lab. You get free health care because we are going to take care of you. We’re going to give you everything you need. You’re going to go out. You’re going to do it again and then we’ll give you everything for free again.”

www.tennessean.com September 5, 2011



Tracking vs. Scheduling



Tracking

- Logbooks electronically connected to database
- Database determines if individual can make purchase
- Permanent electronic record of purchase
- Stop sale ability
- Helps LE identify “smurfers.” Or does it?
- Leads to identification of lab operators and labs. Or does it?
- More arrests and seizures....maybe
- Tool for LE If all retail outlets are involved and the database is not corrupted by false IDs
- In Place - KY, MO*, AR*, CA*, TN, PA ++++++



Schedule III Prescription Only

- PSE and EPH can only be obtained pursuant to prescription from a physician or practitioner
- Cannot freely purchase from retail outlets - ends unrestricted availability and smurfing
- If a CS, PDMP may be utilized for tracking purposes (if authorized by state law or regulation)
- In place in Oregon – 96% lab seizure reduction
- In place in Mississippi – 67% reduction
- Decrease in labs leads to a decrease in resources expended – LE and local/city/state funds (OT, lab cleanups, environmental issues, children/defs/citizens/cops health care, foster care etc)
- LE can restructure resources to handle other LE issues instead of providing cleanup service and chasing smurfers
- Prevents labs – is not a reactive tool, but a preventative measure



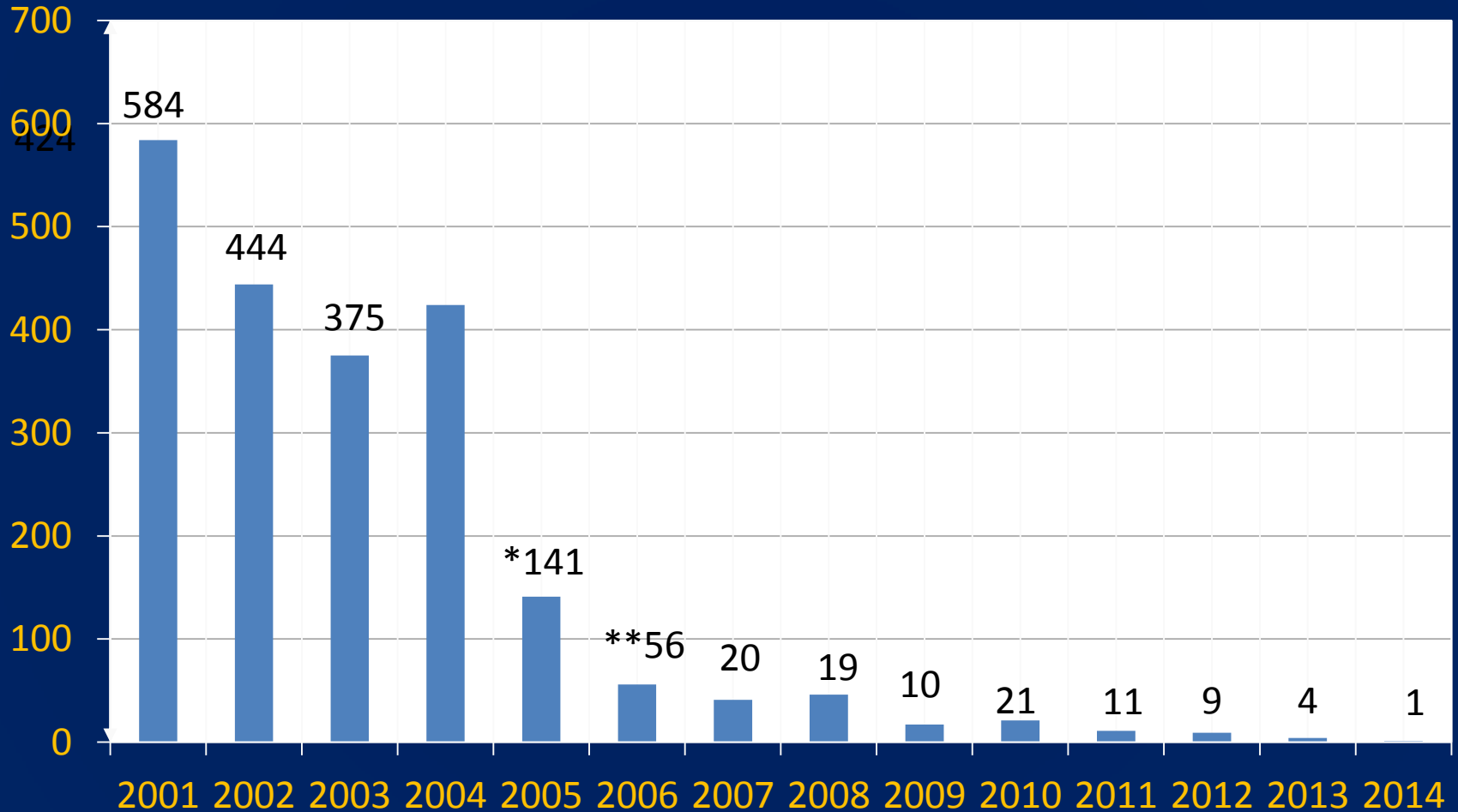
DISCLOSURE –

- NEITHER Tracking or Prescription only will have ANY impact on Methamphetamine Availability in the United States!
- But, Prescription only PSE will impact the number of domestic meth labs



Oregon

Meth Lab Seizures by Year



* Behind the counter and log book on May 14, 2005

** Prescription only on July 1, 2006

Source: NSS-EPIC

Query Date: July 1, 2014



(Associated Press) “Analysis Finds Meth Flourishes Despite Tracking Laws”

“Electronic systems that track sales of the cold medicine used to make methamphetamine have failed to curb the drug trade and instead created a vast, highly lucrative market for profiteers to buy over-the-counter pills and sell them to meth producers at a huge markup.”

“The pharmaceutical industry has spent several million dollars to fund the tracking systems. For drug makers, that is far cheaper than one alternative -- making the medication available only by prescription. If more states do the same, it could be devastating for makers of cold and sinus pills. The pseudoephedrine market is estimated at more than \$550 million annually. “

Associated Press – January 11, 2011



Mississippi: 6-Month-Old Law to Combat Meth Production Lauded Jan. 4, 2011

After just six month, a new law requiring a prescription for cold and sinus medicines containing pseudoephedrine **has proved to be an effective deterrent to methamphetamine production in Mississippi.**

“Early results show a nearly 70 percent reduction in meth-related cases statewide. Now when we find pseudoephedrine at meth labs, it was purchased in surrounding states,” explained Director Fisher.

Figures from the MBN indicate officers worked **124** meth labs from July to December 2010, a **68 percent reduction** from the **389** meth labs they worked from July to December 2009.

Officials removed **19** children from meth lab sites July to December 2010, a **76 percent reduction** from the **80** children removed from meth labs sites July to December 2009.

“Other states are looking to follow Mississippi’s lead and pass the same law. This works; I hope they do,” Director Fisher said.



Meth Labs and Child Welfare

*U.S. Drug Enforcement Administration / Operations
Division / Office of Diversion Control*



35% of children removed from lab scenes test positive for meth





Methamphetamine Laboratories are Harming Our Children Oklahoma

“OKLAHOMA CITY - A judge was told Friday that Del City fire investigators found evidence that methamphetamine was made inside the burned motorhome where three young children died Jan. 4.” July 23, 2011 newsOK.com





Methamphetamine Laboratories are Endangering our Children Indiana & Florida

“ Police believe a Muncie couple put the lives of hundreds of children – including three of their own – in danger by maintaining a meth lab in their southeast Muncie home near a school and a day care center.”

Muncie Star Press December 32, 2011

“Police seek person who made meth at SW IND school”

Wish TV 8 December 13, 2011

“4 children escape meth lab fire”



FoxTV.com Florida
October 27, 2011



Methamphetamine Laboratories are Endangering Our Children Indiana & Georgia

“Two arrested and children taken into protective custody in Elkhart meth bust.”



July 22, 2011 WSBT-TV

“Report: Chattooga Co. woman hides meth lab under children's play house”



The Summerville News April
16, 2012



Methamphetamine Laboratories are Endangering our Children & Families West Virginia & Michigan

“The number of meth labs is on the rise in West Virginia, and more than half are happening in homes with children.”



WSZ3 November 22, 2011

“Meth lab explosion forces five families out of their apartments”



Hillsdale.net April 6, 2012
Cambria, Michigan



Methamphetamine Laboratories are Harming Our Children Ohio

“Death of Akron toddler
called suspicious; police say
meth lab found in home.”

“Ohio toddler died from
ingesting meth”

Akron Beacon Journal Online
February 27, 2012 & March 27, 2012





Methamphetamine Laboratories are Harming Our Children Georgia

“3 Children Killed, Evidence Of Meth Found In Fire”

“GWINNETT COUNTY, Ga. -- Gwinnett County police charged a man with murder after firefighters said they found chemicals related to methamphetamine production in a house fire that killed three children.”





Methamphetamine Laboratories are Harming Our Children North Carolina



“Sheriff Hubert Peterkin said Thursday his deputies raided a suspected meth operation near the Hoke/Cumberland County line where a 6-month-old child was burned. .”

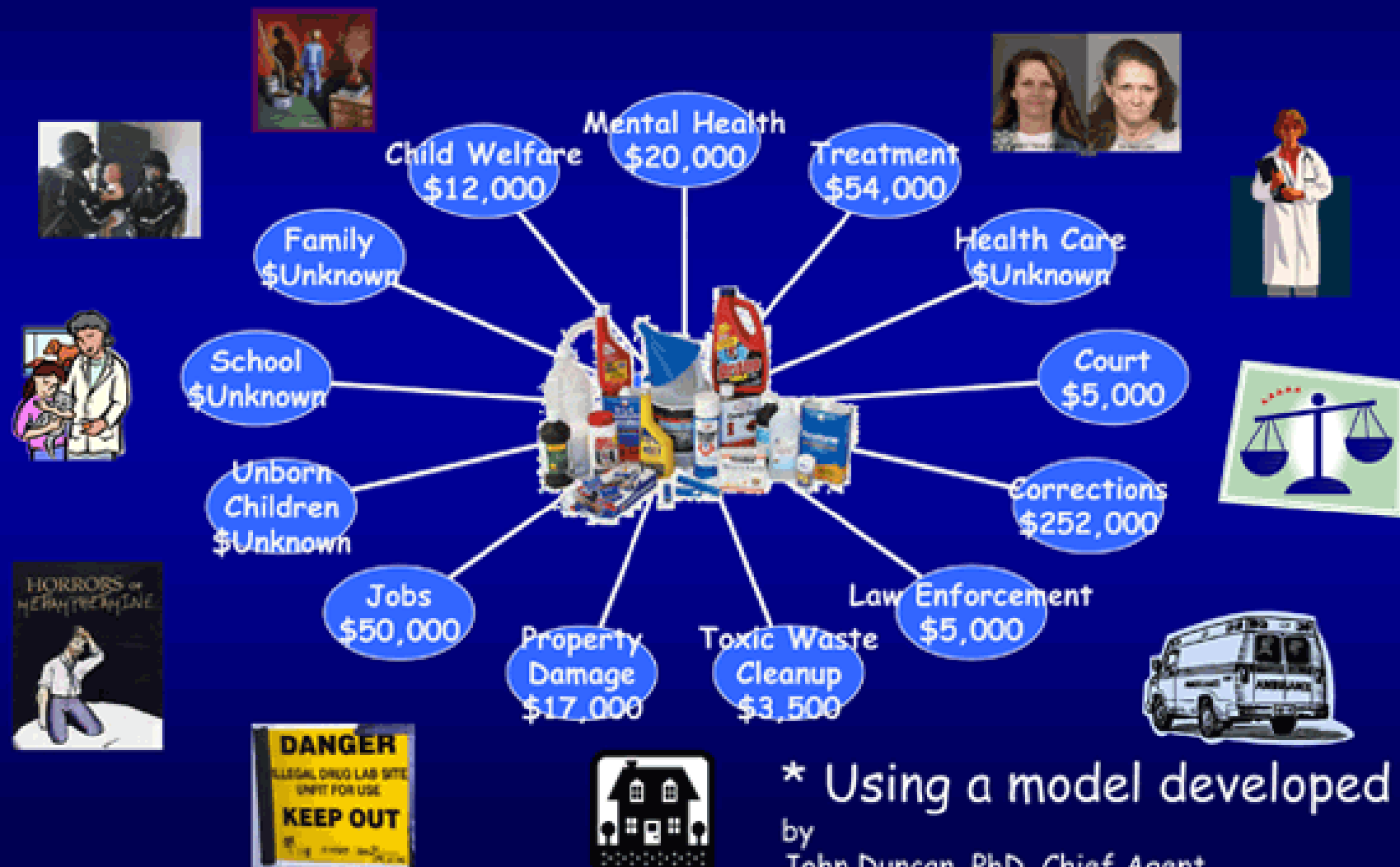
February 4, 2011

WTVD Raleigh , N.C.

“In Morgantown, a meth lab was discovered at a day-care center.”

www.charlotteobserver.com April 3, 2011

Impact of One Meth Lab - \$350,000



* Using a model developed
by
John Duncan, PhD, Chief Agent,
Oklahoma Bureau of Narcotics



*Total Costs: \$23.4 BILLION

And it all begins with Smurfing!!

*2009 Rand Study



United States Encounters and Efforts against Synthetic Designer Drugs



August 2-3, 2014

Pharmacy Diversion Awareness Conference
Denver, Colorado

Antonio R. Guzman, Staff Coordinator
Synthetic Drugs and Chemical Section
U.S. Drug Enforcement Administration



**UNODC: NPS are
substances of
abuse that are not
under international
control
(but constitute a
significant public
health threat)**

*U.S. Drug Enforcement Administration / Operations
Division / Office of Diversion Control*



UNODC

United Nations Office on Drugs and Crime

**The challenge of
new psychoactive substances**



Global SMART Programme

2013



Compounds Encountered in the U.S. since 2009

More than 233 new Synthetic Compounds
From 8 Classes of Drugs

U.S. law enforcement has encountered:

- 95 synthetic cannabinoids
- 51 synthetic cathinones
- 87 other compounds (2C compounds, tryptamine, piperazines, etc.)



Synthetic Designer Drugs

- These drugs are perceived as being „legal“ alternatives to marijuana, cocaine, methamphetamine, MDMA and LSD
- These drugs are being marketed and sold as:
 - incense and potpourri
 - bath salts
 - glass cleaner
 - shoe deodorizer
 - plant food
 - “Molly”
 - Research chemicals
 - And many other names
- Often **more dangerous** than the traditional illicit drugs they are purported to mimic

Synthetic Cannabinoids

(Spice, K2, legal weed)





Synthetic Cannabinoid Profit Margin

*One Kilogram
of Powder*

*Thirteen Kilograms of
Organic Leaf*

*\$20.00 each 1 to 2
Gram Package*

*Approximately \$250,000 Profit
per Kilogram*



Synthetic Cannabinoids

- Unregulated and unlicensed industry
- Multiple manufacturers



- Sold in convenience stores, gas stations (often behind the counter), smoke and head shops and online
- Significant batch to batch variance (i.e. “hot spots”, multiple or different drugs)
- Labeled “Not for Human Consumption”



SYNTHETIC CANNABINOID

- What does it look like?
- How is transformed/made into a usable form?



SYNTHETIC CANNABINOID





ACETONE SOLVENT – 5 gallon cans





Bulk Plant Material





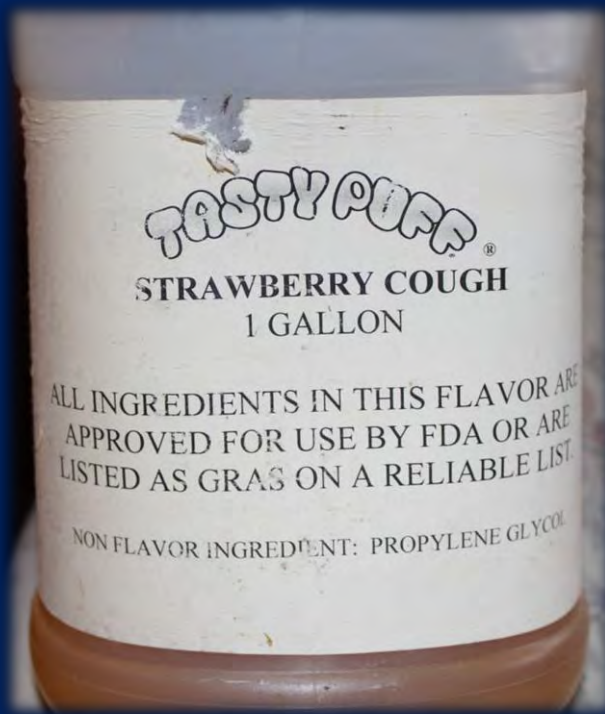
Dried Ground Plant Leaves





Mix the product





Add Flavoring





Cannabinoid Drying





Packaging Center





Other Processing Locations



*U.S. Drug Enforcement Administration / Operations
Division / Office of Diversion Control*



“SPICE” MANUFACTURING SITE





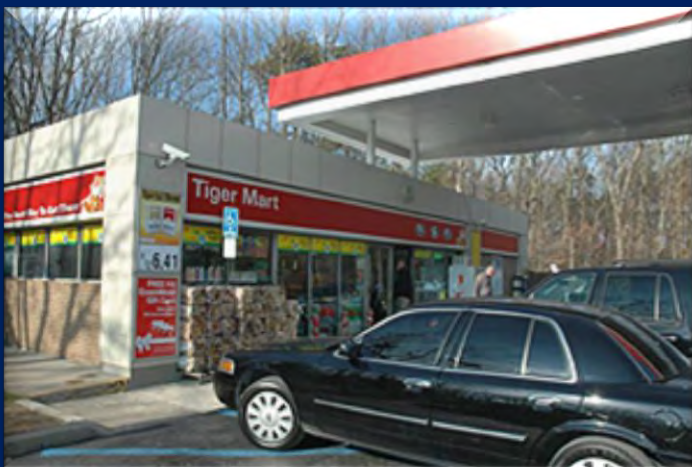
CANNABINOID PROCESSING

May 2010 near Richmond, VA






Sold at Gas Stations, Convenience Stores, Head Shops and Online





Cost Comparison – “potpourri”



12 Ounce Bag of Potpourri

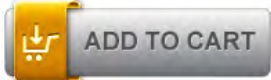
* Review this Item & Win \$100!

List Price: ~~\$32.99~~

Sale Price: **\$25.95**

You Save: \$7.04 (21%)

In Stock. * Usually Ships Same Business Day.

 ADD TO CART

- 12 ounce bag of potpourri
- Adds a pleasant scent to any hearth

[\(See Complete Product Description\)](#)



- Scooby Snax 4 gram = \$25
- 453 grams per pound
- 336 grams real potpourri above
- Equivalent Cost = \$2,100



Liquid Cannabinoid Delivery Method



E-cigarettes

**AB-PINACA and
nicotine**



5F-UR-144

**Brand:
Magic Juice
Watermelon**



AB-FUBINACA





Why Spice? - 18 year old's perception

- “Spice vs Marijuana”
 - Doesn't show up on urinalysis testing
 - More potent
 - “10Xs higher”
 - Less expensive
 - “10Xs cheaper”





Cannabinoid Collateral Damage

- Major outbreaks in Austin, TX
- XLR11 & AB-FUBINACA
- Dallas, TX
- Gainesville, FL



Adverse Health Effects: Cannabinoids

Abusers are presenting at Emergency Departments and also seeking treatment for dependence and withdrawal.

Multiple deaths have been connected to the abuse of these substances alone and with other substances on-board.

Psychological	Anxiety, <u>aggressive behavior</u> , agitation, confusion, dysphoria, <u>paranoia</u> , agitation, irritation, panic attacks, <u>intense hallucinations</u>
Neurological	Seizures, loss of consciousness
Cardiovascular	Tachycardia, hypertension, chest pain, cardiac ischemia
Metabolic	Hypokalemia, hyperglycemia
Gastrointestinal	Nausea, vomiting
Autonomic	Fever, mydriasis
Other	<u>Organ damage</u>



BATH SALTS, PLANT FOOD, GLASS CLEANER, ETC.





Synthetic Cathinones

(bath salts, plant food, glass cleaner, “Molly”)

- Structurally and pharmacologically similar to amphetamine, Ecstasy (MDMA) and other related substances.
- Are central nervous system (CNS) stimulants and have stimulant and psychoactive properties similar to schedule I and II amphetamine type stimulants.
- Synthetic cathinones are sold in retail stores, on the internet, and in “head shops” as “bath salts”, “plant food”, “jewelry cleaner”, “lady bug attractant” and others.



Synthetic Cathinones

(bath salts, plant food, glass cleaner)

- Like the cannabinoids, unregulated and unlicensed industry
- Full disclosure of ingredients typically not present
- Significant batch to batch variances “Hot Spots”
- Sold in convenience stores, gas stations and online





Cost Comparison – plant food & “plant food”



1.5 lb. All-Purpose Plant Food

Model # 1001122 Internet # 100081891 Store SKU # 317179

★★★★★ (77) [Write a Review](#)

\$5.98 / each

59 in Stock at Bethesda #2509
Aisle 50 Bay 017
[\(change pick up store\)](#)

PRODUCT SOLD : Online & In Store



- Blow – 1/2 gram = \$40
- 453 grams per pound
- 680 grams in above Plant Food
- Equivalent Cost = \$54,400



Adverse Health Effects: Cathinones

Synthetic cathinone users commonly report cardiac, psychiatric, and neurological signs and symptoms with death.



Cardiovascular	palpitations, tachycardia, chest pain, vasoconstriction, myocardial infarction
Psychological	<u>Aggressive behavior</u> , anger, anxiety, agitation, <u>auditory and visual hallucinations</u> , depression, dysphoria, empathy, euphoria, fatigue, formication, increased energy, concentration, panic attacks, <u>paranoia</u> , perceptual disorders, restlessness, <u>self-mutilation</u> , <u>suicidal ideation</u>
Neurological	Seizures, tremor, dizziness, memory loss, cerebral edema, headache, lightheadedness
Musculoskeletal	Arthralgia, extremity changes (coldness, discoloration, numbness, tingling), muscular tension, cramping
Gastrointestinal	Abdominal pain, anorexia, nausea, vomiting
Pulmonary	Shortness of breath
Ear Nose Throat	Dry mouth, nasal pain, tinnitus



Synthetic Cathinones

- Also sold in pill form
- Popular at Clubs
- Available at Parties
- Mimics MDMA
 - Ecstasy/XTC
- Street name “Molly”





What is Molly?

Where did the term come from?

- Molly – derived from the word “molecule”
 - Rogue chemists would often alter one molecule to defeat the controlled substance laws
- Molly – a synthetic designer drug
 - Originally - a street name for pure MDMA (Ecstasy)
 - Currently - a street name for a drug, that has the same effects as MDMA



Molly

- Some of the Drugs found in “Molly” (Scheduled)
 - MDMA (1985)
 - Methylone (October 2011)
 - A-PVP (March 2014)
 - 4-MEC (March 2014)
 - Pentadrone (March 2014)
 - Butylone (March 2014)
 - Ethylone
 - others



Other Synthetic Drugs of Abuse

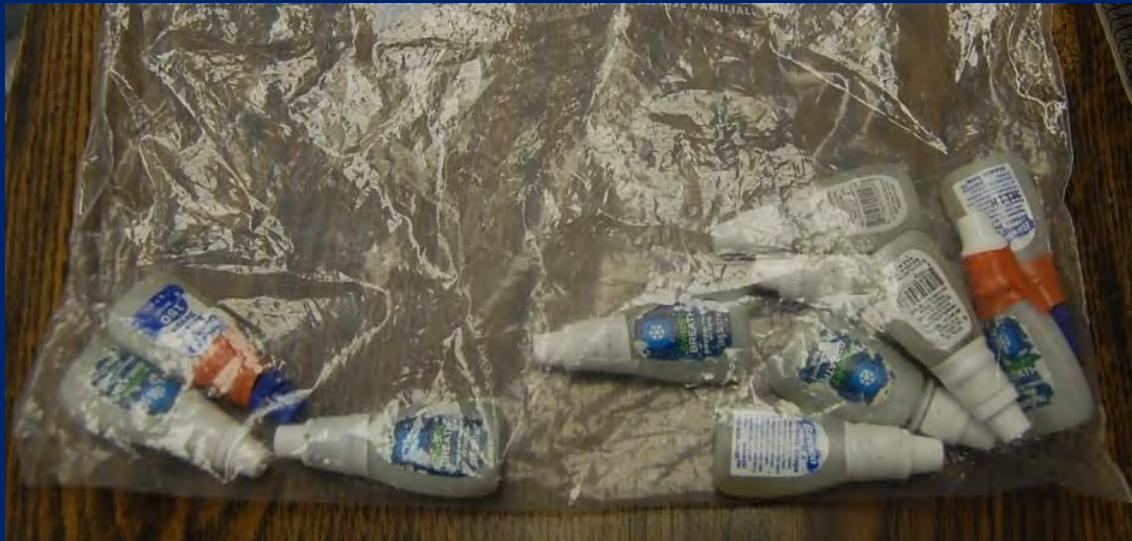


Phenethylamines

25I-NBOMe and 25C-NBOMe

“N-BOMB”, “2-5-I”, “Eye” and “Smiles”

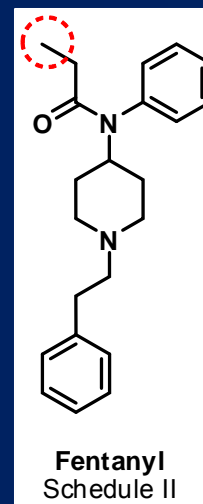
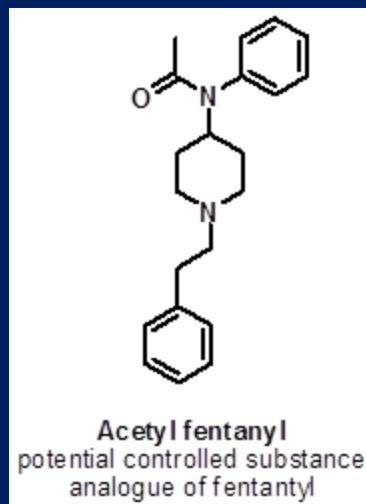
- Hallucinogen, abused orally or through nasal passages
- Encountered on blotter paper and in dropper bottles
- Taken as a substitute for LSD
- Linked to several overdose deaths
- 11/2013 controlled 25I-NBOMe, 25B-NBOMe & 25C-NBOMe





Acetyl Fentanyl

- RI Medical Examiner's Office regarding twelve **(12)** overdose deaths in March/April 2013
- Preliminary Lab/Toxicology reports attribute OD deaths to Acetylfentanyl
 - 5 of 12 overdose deaths occurred in Woonsocket, RI
 - May 16, 2013 two individuals arrested in Woonsocket, RI in possession of 28 grams of suspected Acetyl fentanyl
 - Attempts will be made to confirm link to OD deaths





Addressing through Legislation

*U.S. Drug Enforcement Administration / Operations
Division / Office of Diversion Control*



U.S. Synthetic Drug Abuse and Prevention Act 2012

Cannabinoids

- | | |
|--------------------------------|-------------|
| 1) AM2201 | 8) JWH-200 |
| 2) AM694 | 9) JWH-019 |
| 3) CP-47,497 | 10) JWH-250 |
| 4) CP-47,497 –
C8 homologue | 11) JWH-122 |
| 5) JWH-018 | 12) JWH-203 |
| 6) JWH-073 | 13) JWH-398 |
| 7) JWH-081 | 14) SR-19 |
| | 15) SR-18 |

Cathinones

- 1) Mephedrone
- 2) MDPV

Phenethylamines

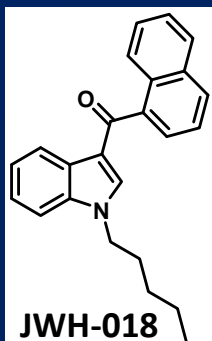
- 1) 2C-E
- 2) 2C-D
- 3) 2C-C
- 4) 2C-I
- 5) 2C-T-2
- 6) 2C-T-4
- 7) 2C-H
- 8) 2C-N
- 9) 2C-P



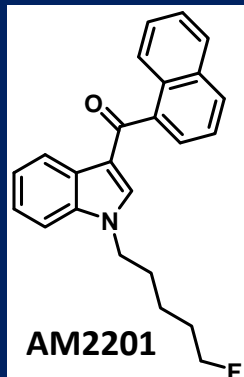
Why is it hard for law enforcement to keep up?



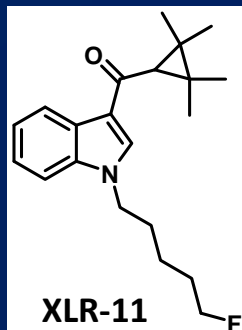
Designer Drug Market Encounters



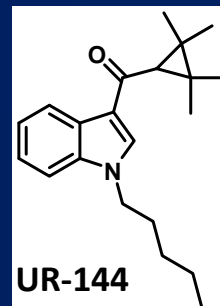
Nov 2009



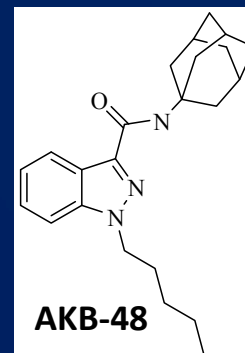
Apr 2011



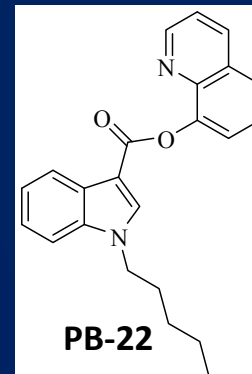
Feb 2012



Mar 2012



Jun 2012



Feb 2013

Mar 2010
State controls
initiated

Oct 2010
DEA notice
to schedule
published

Mar 2011
Final Order
placing
5 synthetic
cannabinoids
in Schedule I

Jun 2012

Jul 2012
Federal legislation
signed, placing
15 synthetic
cannabinoids
in Schedule I

Dec 2012
State controls
UR-144 XLR-11

GA Pharmacy Board
bans UR-144 & XLR-11

KS Board of Pharmacy
bans UR-144



Prosecution of Non-Controlled Drugs

U.S. Controlled Substance Analogue Act

21 USC 813 – A Controlled Substance Analogue, shall, to the extent intended for human consumption, be treated for the purposes for any Federal law as a controlled substance in Schedule I

21 USC 802(32) – chemical structure is substantially similar to a controlled substance in schedule I or II and has a similar pharmacologic effect.





Law Enforcement Efforts

*U.S. Drug Enforcement Administration / Operations
Division / Office of Diversion Control*



OPERATION LOG JAM

July 2012

- 100 Arrests
- 300 Search Warrants
- 80 Consent/Knock-Talk Contacts
- 38 Manufacturing Sites
- 432 Pounds Raw Synthetic Cathinones
- 167,187 Packets of Synthetic Cathinones
- 4,852,099 Packets of Synthetic Cannabinoids
- 1,948 Pounds Raw Synthetic Cannabinoids
- 10,487 Pounds of Treated Plant Material
- 48,253 Pounds of Untreated Plant Material
- >\$45,000,000 in US Currency/Bank Accounts
- Vehicles/Value - 88
- Other Assets - \$5,688,500
- Firearms - 77
- 1096 Gallons of Acetone Seized



Log Jam Seizures July 25-26, 2012

Synthetic Cannabinoid Seizures

- 4.8 Million Units Synthetic Cannabinoid Products
 - \$10 Unit = \$48 Million
 - 1,984 lbs. Synthetic Cannabinoid Compound
 - \$5/gram = Over \$45 Million
 - 10,487 lbs. unpackaged Synthetic Cannabinoid Plant Material
 - \$5/gram = Over \$23 Million
- TOTAL DRUG VALUE = \$116 million





Log Jam Seizures July 25-26, 2012

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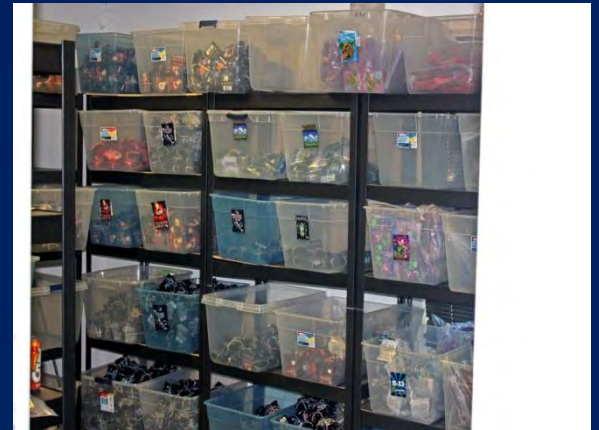




Operation Log Jam Seizures July 25-26, 2012



- 560,000 units Synthetic Cathinone Products
 - \$20/UNIT = \$11.2 MILLION
- 448 lbs. unpackaged Synthetic Cathinone Powder
 - \$40/GRAM = Over \$8 Million
- Smaller amounts of Hydrocodone, Marijuana, Cocaine, Heroin, LSD, other analogue drugs; hydroponic grow set up (no plants)





CHANGE

Change is the only
constant in the drug
world.



HEROIN & PHARMACEUTICALS

WITHDRAWAL FROM OPIATES

"One patient said to me, 'Imagine the worst flu when you're shivering, you're vomiting, you can't eat, you have diarrhea, every atom in your body hurts, you can't sleep, you lie on the floor just shivering ... and multiply that times a million,'" Fallieras recounted. "And you know if you can just take the pill or inject yourself with heroin, that it just all goes away."



COCAINE & PHARMACEUTICALS

LEVAMISOLE – (Ergamisol)- an old drug once used to treat parasitic worm infections

*Over 80 % of cocaine seized in US is laced w/ levamisole (avg concentration approx 10 %)

*Can lead to severe reduction of white blood cells, a problem called agranulocytosis.

*Cutting agent or modifies pharmacological properties of cocaine

*ID of synergism for cocaine/levamisole interaction
(Neuropharmacology, 1/2014 Temple Univ Sch of Med)



DEA Web-based Resources

Office of Diversion Control

www.dea diversion.usdoj.gov

The screenshot shows the official website of the U.S. Department of Justice, Drug Enforcement Administration, Office of Diversion Control. The page features a top navigation bar with links for Home, Registration, Reporting, Info & Legal Resources, and Media/Diversion Listing. A prominent banner at the top right encourages reporting illicit pharmaceutical activities via a toll-free number (1-877-RX-ABUSE or 1-877-792-2873). The main content area is divided into several sections: 'What's New' with recent regulatory updates; 'Registration Support' including a toll-free registration number and instructions; 'Upcoming Meetings' for various advisory committees; and 'FAQ' covering topics like ARCS, Controlled Substances, and Prescription Drugs. A sidebar on the left contains links to 'Got Drugs?', 'Disaster Relief', 'Extortion SCAM', 'Regulations.gov', 'The voice in Federal decision making', and 'Good Medicine, Bad Behavior'. The bottom of the page includes a disclaimer about external links and a small 'Get IPED FINDER' button.



DEA Web-based Resources

www.JustThinkTwice.com

The screenshot shows the homepage of the Just Think Twice website. The browser address bar displays <http://www.justthinktwice.com>. The website has a yellow and black color scheme. At the top, a banner reads "JUST THINK TWICE" with the tagline "YOU'VE HEARD THE FICTION. NOW LEARN THE FACTS." Below this is a navigation bar with links: HOME (return home), DRUG FACTS (learn the truth), FACTS & FICTION (know the difference), CONSEQUENCES (life changing events), TEENS TO TEENS (sharing our experience), and INSIDE DEA (find out more). A search bar is located on the right. The main content area features a large section titled "THINK YOU KNOW WHAT METHAMPHETAMINE IS MADE OF" with a question mark. It includes text about the ingredients of meth (battery acid, gasoline, and drain cleaner) and a link to "GET THE FACTS ABOUT METHAMPHETAMINE". Below this are three icons representing MARIJUANA, COCAINE, and METH. To the right, there are two smaller sections: "IT'S TIME TO SHATTER THE MYTHS ABOUT DRUGS AND DRUG ABUSE" with a "Learn More" link, and "FACTS & FICTION Get the Facts". At the bottom right, there is a "TEENS TO TEENS" section with advice from teens on the D.A.R.E. Youth Advisory Board and a "READ MORE" link. A "Did You Know?" fact is at the bottom left: "Combine toxic chemicals with neglected hygiene, and you get a condition called 'meth mouth'—rotten and decaying teeth."

JUST THINK TWICE
YOU'VE HEARD THE FICTION. NOW LEARN THE FACTS.

Parents & Educators | Drug Glossary

SEARCH

HOME *return home* | **DRUG FACTS** *learn the truth* | **FACTS & FICTION** *know the difference* | **CONSEQUENCES** *life changing events* | **TEENS TO TEENS** *sharing our experience* | **INSIDE DEA** *find out more*

THINK YOU KNOW WHAT METHAMPHETAMINE IS MADE OF?

Maybe you've heard it's made of the same stuff as cold medicine. Well, that's not all. Some of the ingredients used to make meth include battery acid, gasoline, and drain cleaner.

[GET THE FACTS ABOUT METHAMPHETAMINE »](#)

MARIJUANA | **COCAINE** | **METH**

IT'S TIME TO SHATTER THE MYTHS ABOUT DRUGS AND DRUG ABUSE
[Learn More](#)

FACTS & FICTION
Get the Facts

TEENS TO TEENS
Advice from teens on the D.A.R.E. Youth Advisory Board
[READ MORE »](#)

Did You Know? Combine toxic chemicals with neglected hygiene, and you get a condition called "meth mouth"—rotten and decaying teeth.



DEA Web-based Resources

www.DEA.gov

A screenshot of the DEA website homepage as it appeared in the early 2000s. The browser window shows the URL "http://www.justice.gov/dea/index.shtml". The website has a dark blue background with a large "DEA" logo in gold. Below the logo, the text "UNITED STATES Drug Enforcement Administration" is displayed, followed by the tagline "TOUGH WORK, VITAL MISSION". A navigation bar contains links for HOME, ABOUT, CAREERS, OPERATIONS, DRUG INFO, PREVENTION, and PRESS ROOM. The main content area features a large graphic with the text "Tough Work, Vital Mission The Facts About DEA" and a smaller DEA seal. To the right, there are three boxes: "Drug Facts for Today's Teens" (JustThinkTwice.com), "A DEA Resource for Parents" (GetSmartAboutDrugs.com), and "Wall of Honor" (DEA Remembers). At the bottom, there are three columns: "TOP STORY" with a headline about a couple in Brownsville, Texas; "TOPICS OF INTEREST" with links to fact sheets and guides; and "RESOURCE CENTER" with links to various DEA programs and services.



Thank you