

Multijurisdictional Counterdrug Task Force Training

Current Drug Trends

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A partnership between The Florida National Guard and St. Petersburg College

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Current Drug Trends

Description
<p>The goal of this course is to present an overview of the identification of the current controlled and non-controlled substances and their associated paraphernalia which sworn law enforcement officers will likely encounter in their duties. Topics include: appearance, applicable presumptive tests, physiological and psychological effects, methods of ingestion, possible medicinal and/or cultural uses, slang terminology, weights and diluents, cultivation and production, and clandestine laboratories.</p>
Objectives
<p>Upon successful completion of this section, students will be able to:</p> <ul style="list-style-type: none">• Recognize various controlled and non-controlled substances and any associated paraphernalia• State the possible presumptive tests than can be utilized for various controlled substances• State the possible medicinal uses of various controlled and non-controlled substances, if any• State the method of ingestion, slang terms, and the physiological and psychological effects of various controlled and non-controlled substances• Identify the signs and signals of a possible clandestine laboratory operation

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Cannabis

General

- Most widely abused illegal drug in the U.S.
- Schedule I
- Botanical name Cannabis Sativa
- Grows wild in climates all over the world

Cannabis Appearance

- Plants
- Green leafy bush
- 2-12 feet high

Cannabis Leaf

- Palmate leaves with an odd number of leaflets
- Leaflets have serrated edges
- Main psychoactive ingredient is THC (tetrahydrocannabinol)
- Different parts of the plant contain different levels of THC
- Different “forms” have varying amounts of THC

THC Content

From highest to lowest:

- Buds/ flowering tops
- Leaves
- Stems
- Roots
- Seeds

Commercial Grade Cannabis

- Dried leaves, stems and flowers
- Green to brown
- Ditch weed
- THC content approximately 7%

Cannabis Seeds

- Ovoid shape
- Lacy design
- Ridge around circumference

Sinsemilla Bud

- Spanish for “without seeds”
- Unfertilized female plants
- THC content up to 30%

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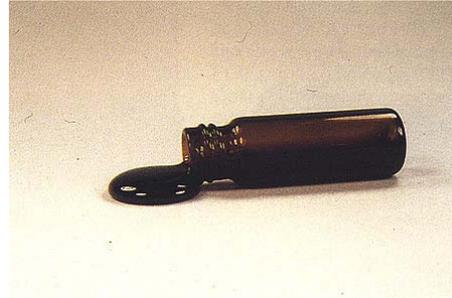
Hash Oil and Hash Bricks

Hash

- Brown to black resin material
- Dried and pressed resin
- Generally, darker = more potent

Hash oil

- Dark brown to black liquid resin
- Solvent used to extract THC
- Viscous liquid, varying in color
- Generally, the lighter the color the higher the THC content



Hash Oil



Imprinted Hash Brick

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Cannabis Cultivation

Cannabis Cultivation

- Historically, majority was grown in Mexico
- 98% imported by vehicle
- The U.S. is now the largest producer of domestically used cannabis
- "BC Bud" from British Columbia, Canada

Outdoor Cultivation

Advantages:

- ✓ Unlimited number of sites
- ✓ Minimal care and attention

Disadvantages:

- ✓ Possibility of discovery and theft
- ✓ Temperature changes and drought

Indoor Cultivation

Advantages:

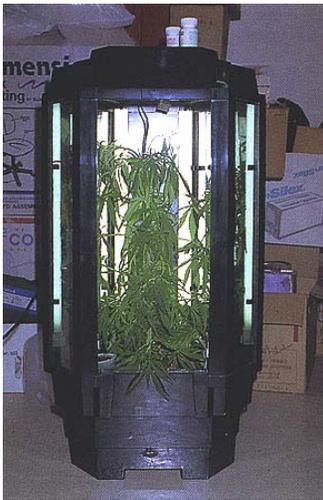
- ✓ Security
- ✓ Year round growing

Disadvantages:

- ✓ Restricted space
- ✓ Exorbitant lighting costs

Hydroponics

- Grow plants in container of water containing dissolved nutrients
- Roots supported by medium such as rock wool, lava rock or gravel



**Hydroponics
Chamber**



Hydroponics - Nutrients

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Effects, Ingestion, Slang Terms, and Paraphernalia

Cannabis: Effects

- Short term memory loss
- Distorted perception
- Reduced judgment and coordination
- Paranoia
- Loss of ambition
- "Munchies"

Cannabis: Methods of Ingestion

- Smoked
 - Joints
 - Roaches
 - Pipes
 - Blunts
- Oral
 - Cookies
 - Brownies

Cannabis: Paraphernalia

- Pipes
- Rolling Papers
- Clips
- Stones
- Bongs



Pipes



Stash Pipe



Bongs

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Methamphetamine

Methamphetamine: Appearances

- White to brown powder, chunks
- Liquids
- White to brown tablets

Methamphetamine: Ice

- Very pure, smokeable form of methamphetamine (> 90% purity)
- Effects last 8-16 hours
- Ice-clear crystal like material in appearance
- Rock candy
- Trend of "ice" being cut with MSM
 - Lower Purity
 - Same appearance

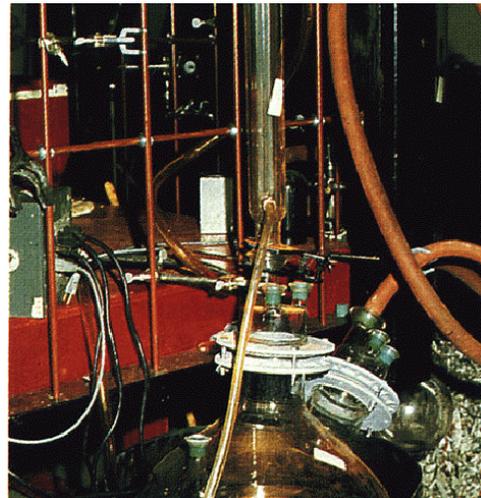
Methamphetamine: Yaba

- Tablets with meth and caffeine
- Brightly colored
- Smoked
- From Southeast Asia

Methamphetamine Production

Two methods

- P2P amalgam
- Ephedrine reduction (most common)



Clandestine Laboratory

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Nazi Method

The Nazi Method

- Quick and easy
- Start to finish 3 hours
- 100% yield
- Materials
 - ✓ Cold medications
 - One bottle of mini-thins - 60 tablets
 - 3.5grams of pseudoephedrine starting material produces 3g methamphetamine
 - ✓ Rechargeable lithium batteries
 - ✓ Rubbing alcohol
 - ✓ Anhydrous ammonia (fertilizer)
 - ✓ Rock salt
 - ✓ Engine starters, toluene
 - ✓ Drain cleaners (acidic based)
- Supplies
 - ✓ Mason jars
 - ✓ Plastic oil funnels
 - ✓ Coffee filters
 - ✓ LPG gallon tanks (5 gallon)
- Clues
 - ✓ Odor of ammonia
 - ✓ Odor of organic solvents - toluene, ether
- Safety concerns
 - ✓ No real poisons or toxic fumes except ammonia
 - ✓ Acids and bases present - general chemical hazards
 - ✓ Reaction of lithium with water
 - ✓ LPG tanks can fail

Step 1: Grind up tablets

Step 2: Extract with rubbing alcohol

Step 3: Filter and dry off solvent

Step 4: Remove lithium strip from battery

Step 5: Dissolve lithium in anhydrous ammonia in mason

Step 6: Add pseudoephedrine: INSTANT METHAMPHETAMINE BASE

Step 7: Add water to stop reaction

Step 8: Extract into toluene or ether

Step 9: Combine drain cleaner (acid) with rock salt creates HCl vapor

Step 10: Bubble HCl vapor through extract

Step 11: Methamphetamine HCl precipitates

Step 12: Filter and dry remaining solvent

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The Red P Method

Red P Method

- One day start to finish
- 70% recovery
- Materials
 - ✓ Source of psuedoephedrine/ephedrine
 - Cold remedies
 - ✓ Red phosphorous
 - Strike caps from safety road flares
 - ✓ Iodine or tincture of iodine
 - ✓ Other chemicals
 - Caustic: Red Devil Lye - drain cleaner
 - Organic solvent: Toluene, ether
 - HCl gas generator: Rock salt, Sulfuric acid (battery acid)
- Supplies
 - ✓ Heat source
 - Deep vat fryers
 - Pressure cookers
 - Crock pots
 - ✓ Mason jars
 - ✓ Filters
 - ✓ Funnels
 - ✓ Possibly chemical glassware
- Safety
 - ✓ HI produced with water, iodine and red P
 - ✓ HI fumes cause edema
 - ✓ Phosgene gas can be produced during reaction
 - ✓ Dried reaction convert red P to white P
 - Spontaneous Ignition With Oxygen
 - ✓ Cookers occasionally found - dead
- - Step 1:** Mix water, iodine, red phosphorous and pseudoephedrine
 - Step 2:** Add heat
 - Step 3:** Filter reaction
 - Step 4:** Add lye to raise pH 13
 - Step 5:** Extract into solvent
 - Step 6:** Bubble HCl - filter crystalline product

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Hallucinogens

Phenethylamines

- MDMA (ecstasy, xtc, adam)
- MDEA (eve)
- MDA
- MBDB
- Nexus, 2-CB



MDMA

General

- Methylenedioxyamphetamine

Slang

- E, X, Ecstasy, beans

History

- Appetite suppressant developed in 1914
- 1980's widespread abuse
- Schedule I in 1988

Rave paraphernalia

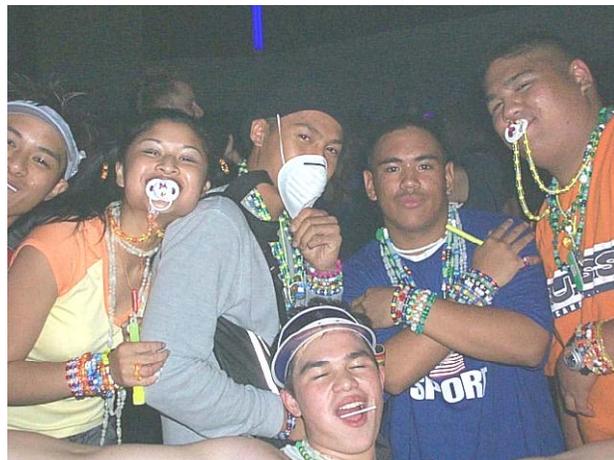
- Pacifiers
- Suckers
- Dust filter/surgical masks with Vicks
- Glow items

Appearance

- Off-white to brown powder (often in capsules)
- Tablets
 - Cartoon characters, fashion logos, car logos

Effects

- Both a stimulant and hallucinogen
- Heightened interpersonal feelings
- Feelings of insight
- Intensified colors, sense of touch, and taste
- Increased heart rate, blood pressure, body temperature, and energy levels
- Onset 20-45 minutes
- Duration 4-6 hours
- Long term depression



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MDMA
<p>Manufacturing</p> <ul style="list-style-type: none"> ▪ Mostly in Europe (Belgium and the Netherlands) ▪ Increased domestic production ▪ Precursors <ul style="list-style-type: none"> ▪ Sassafras or camphor oil (contain isosafrole and safrole) <p>Dosage and pricing</p> <ul style="list-style-type: none"> ▪ 80-150 mg per tablet or capsule ▪ 20 cents to produce ▪ \$10-\$40 retail <p>Look alikes</p> <ul style="list-style-type: none"> ▪ About 30% of products sold as ecstasy do not contain MDMA ▪ May contain: <ul style="list-style-type: none"> ▪ DXM, ketamine, PCP, other phenethylamines, meth, caffeine ▪ PMA and PMMA <ul style="list-style-type: none"> ▪ Stimulants like meth ▪ Sold as ecstasy ▪ 50mg per tablet ▪ Fatal dose is approximately 80mg ▪ Mitsubishi double stacks ▪ Nexus <ul style="list-style-type: none"> ▪ More hallucinogenic than ecstasy ▪ Distributed in same type of pills as ecstasy ▪ Also known as 2-CB ▪ Related compounds: 2-CI, 2-CC ▪ 2CT7 and 2CT2 <ul style="list-style-type: none"> ▪ Distributed in same type of pills as ecstasy ▪ Not listed as controlled substances, but they are analogues of controlled substances ▪ Effects last 10-12 hours and include psychedelic visuals, mood lift, dissociation, and mental confusion ▪ Also known as T7, beautiful, blue mystics ▪ Piperazines <ul style="list-style-type: none"> ▪ BZP and TFMPP ▪ Combination is alleged to give ecstasy like effects ▪ Distributed in tablets with ecstasy like logos

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Tryptamines

General

- Powerful hallucinogens
- Schedule I or analogs
- Smoked, snorted, oral (may be toxic)

Bufotenine -Bufo Toad

- Bufo Alvarius Toad
- Venom from glands
- Dried and smoked
- Common to Southwest Desert Areas
- "Toad Licking" not common
- Toad Legal
- Venom = Schedule I



5-methoxydimethyl tryptamine (5-Meo-DMT)

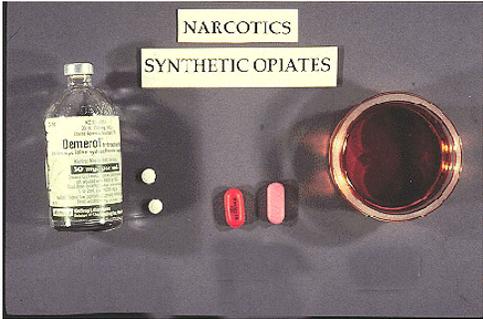
Alpha-methyl tryptamine (AMT)

5-methoxy-diisopropyl tryptamine (foxy, foxy methoxy)

Bufo Toad

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Narcotics	
<p>Narcotics</p> <ul style="list-style-type: none"> ▪ Strong painkilling drugs that also produce sleep ▪ Most drugs in this class are produced from the <u>opium poppy</u> <p>Narcotics: Effects</p> <ul style="list-style-type: none"> ▪ Pain relief ▪ Drowsiness ▪ Euphoria ▪ Nausea ▪ Vomiting <p>Opium Poppy</p> <ul style="list-style-type: none"> ▪ Opium ▪ Morphine – Heroin, Hydromorphone ▪ Codeine – Dihydrocodeine ▪ Thebaine – Oxycodone, Hydrocodone <p>Natural Narcotics</p> <ul style="list-style-type: none"> ▪ Morphine ▪ Codeine ▪ Thebaine <p>Semi-Synthetic Narcotics</p> <ul style="list-style-type: none"> ▪ Heroin ▪ Hydromorphone ▪ Oxycodone ▪ Hydrocodone <p>Synthetic Narcotics</p> <ul style="list-style-type: none"> ▪ Meperidine-pethidine (Demerol) ▪ Methadone ▪ Propoxyphene ▪ 	<div style="text-align: center;">  <p>Opium Poppy</p> </div> <div style="text-align: center; margin-top: 20px;">  <p>Natural Narcotics</p> </div> <div style="text-align: center; margin-top: 20px;">  <p>Semi-Synthetic Narcotics</p> </div> <div style="text-align: center; margin-top: 20px;">  <p>Synthetic Narcotics</p> </div>

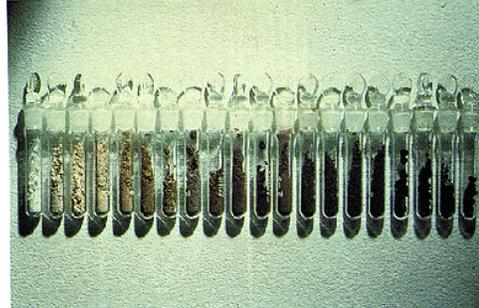
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Heroin

Heroin Production

- Mexico
- Golden Triangle: Myanmar (Burma), Laos and Thailand
- Golden Crescent: Pakistan, Afghanistan and Iran
- Bolivia , Columbia, Peru
- Slit cut in side of unripe poppy seed pod
- Fluid oozes out and dries (opium)
- Scrape and collect opium
- Extract morphine and produce heroin
- Distributed by air, mail and marine vessels
- Commercial air passengers
- Purity
 - ✓ Kilos- 68-78%
 - ✓ Grams- 22-49%
 - ✓ Increasing due to snorting



Heroin: Appearance

- Heroin
 - ✓ White to dark brown powders (depends on cuts and production methods)
 - ✓ Black Tar-tar like substance
- Mexican Black Tar Heroin
 - ✓ Dark brown and shiny
 - ✓ Turns hard and brittle when exposed to air
 - ✓ Odor similar to vinegar



Mexican Black Tar Heroin

Heroin: Use

- Sniffing
- Injecting
- Smoking – “Chasing the dragon”

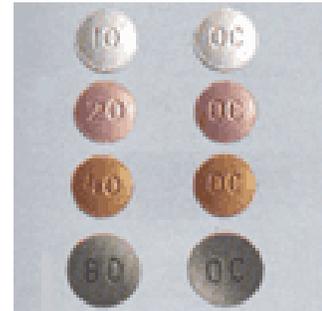
Heroin Injecting Method

- Heroin placed in spoon or can bottom
- Water added from syringe
- Heated
- Injected

Oxycontin

Oxycodone

- Schedule II
- Time released formula of same drug as in Percocet
- Chew or dissolve tablets to defeat the time-release coating
- Marked with OC and number indicating strength
- EX marking is from Mexico, CDN from Canada
- 10, 20, 40, 80, and 160 mg tablets
- Legitimate \$.09-\$.13 per milligram, \$1 per milligram on the street
- Obtained through doctor shopping, false prescriptions, theft, Internet
- OC, oxycotton, crush, oxy, hillbilly heroin



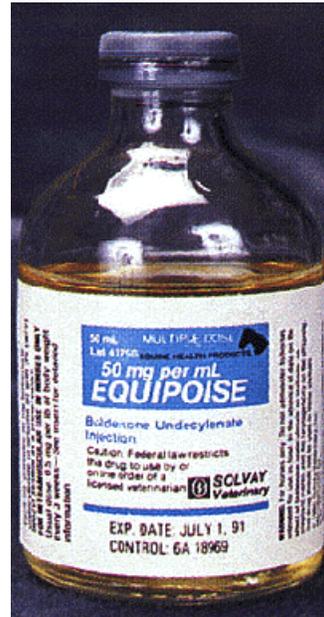
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Anabolic Steroids

Anabolic Steroids

- Schedule III
- Developed in the 1930's to treat injuries
- Used to treat concentration camp inmates after WW II
- Derived from the male sex hormone Testosterone
- Sources
 - ✓ Diverted from legitimate (medical and veterinary) sources
 - ✓ Outside U.S. (often over-the-counter)
 - Mexico
 - Russia
 - South America
- Many are counterfeit



Steroids: Effects

- Increased mass and strength
- Acne, liver disorders, heart problems
- Males: aggression, testicular atrophy, breast enlargement
- Females: beard growth, deeper voice, smaller breast

Steroids: Slang Terms

- Roids
- Dec
- Juice
- Pump
- Stacking
- Cycling
- Stacking: Using more than one steroid at a time
- Cycling: Repeated pattern of using one steroid for a specific time then switching to none or another

Steroids: Appearance

- Tablets
- Liquids

Steroids: Method(s) of Ingestion

- Oral
- Injected (intramuscular)

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