

Drug Enforcement Administration Chemical Control Program



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Methamphetamine



METHAMPHETAMINE / STIMULANT

Re-wires the Brain: Can leave addict Depressed, Forgetful, Short Temper



Methamphetamine Powder



Ice Methamphetamine

- METH releases neurotransmitters into the brain--DOPAMINE and SEROTIN.
- These chemicals are vital to brain functions that control MOOD MEMORY, SLEEP, MOVEMENT, DECISION MAKING and APPETITE.
- Brain neurons that release DOPAMINE and SEROTIN become damaged.

AFTER YEARS OF ABUSE: METHAMPHETAMINE - INDUCED BRAIN DAMAGE

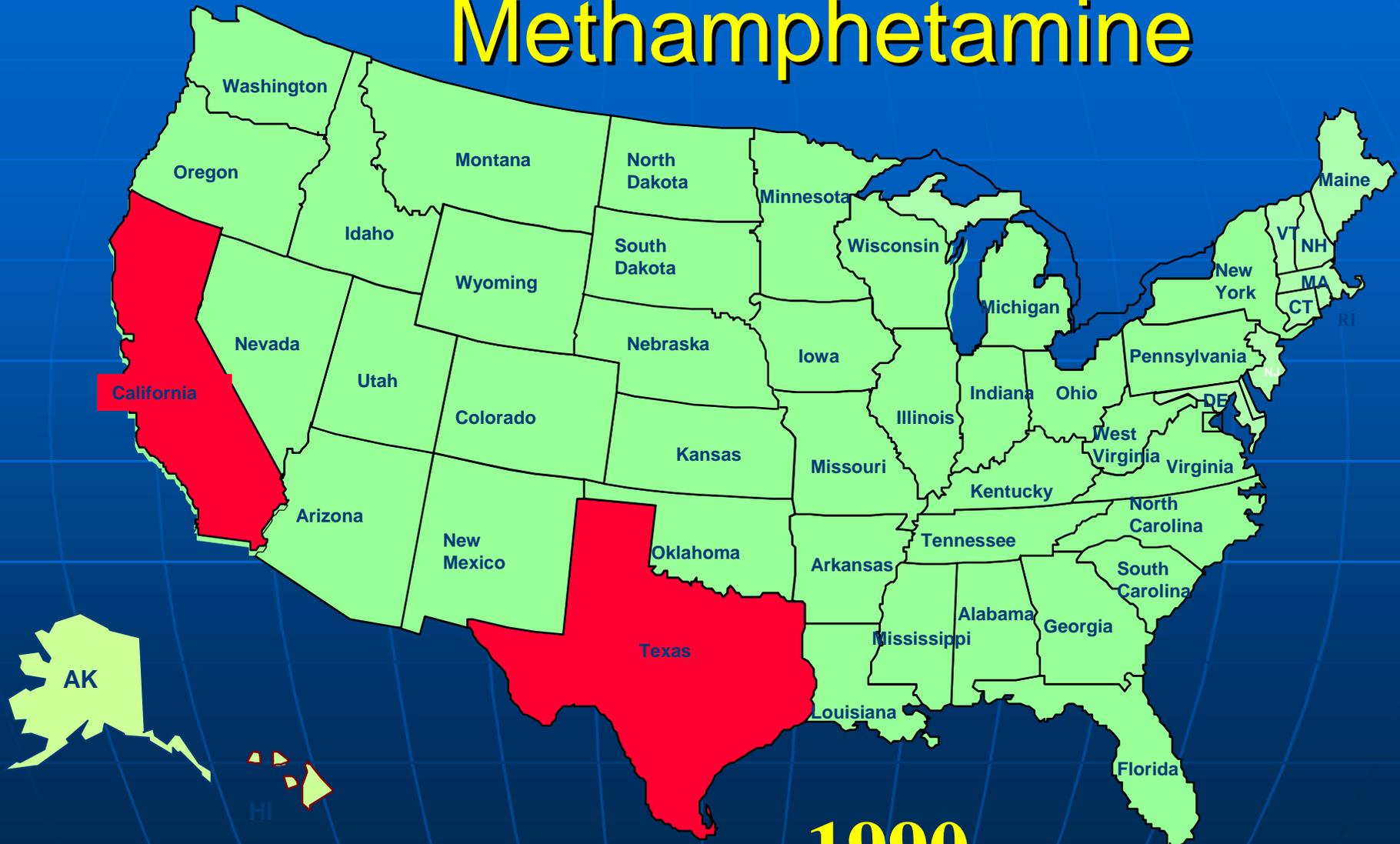


- Heavy METH users lose about 50% of their ability to produce DOPAMINE
Researcher: “It doesn’t seem to come back”.
- They are: Constantly Irritable; Forget Complex Memories; Almost Never Feel Joy.
- Because of the extreme Dopamine depletion they experience shaking and similar symptoms to PARKINSON’S DISEASE.

Methamphetamine Source Countries

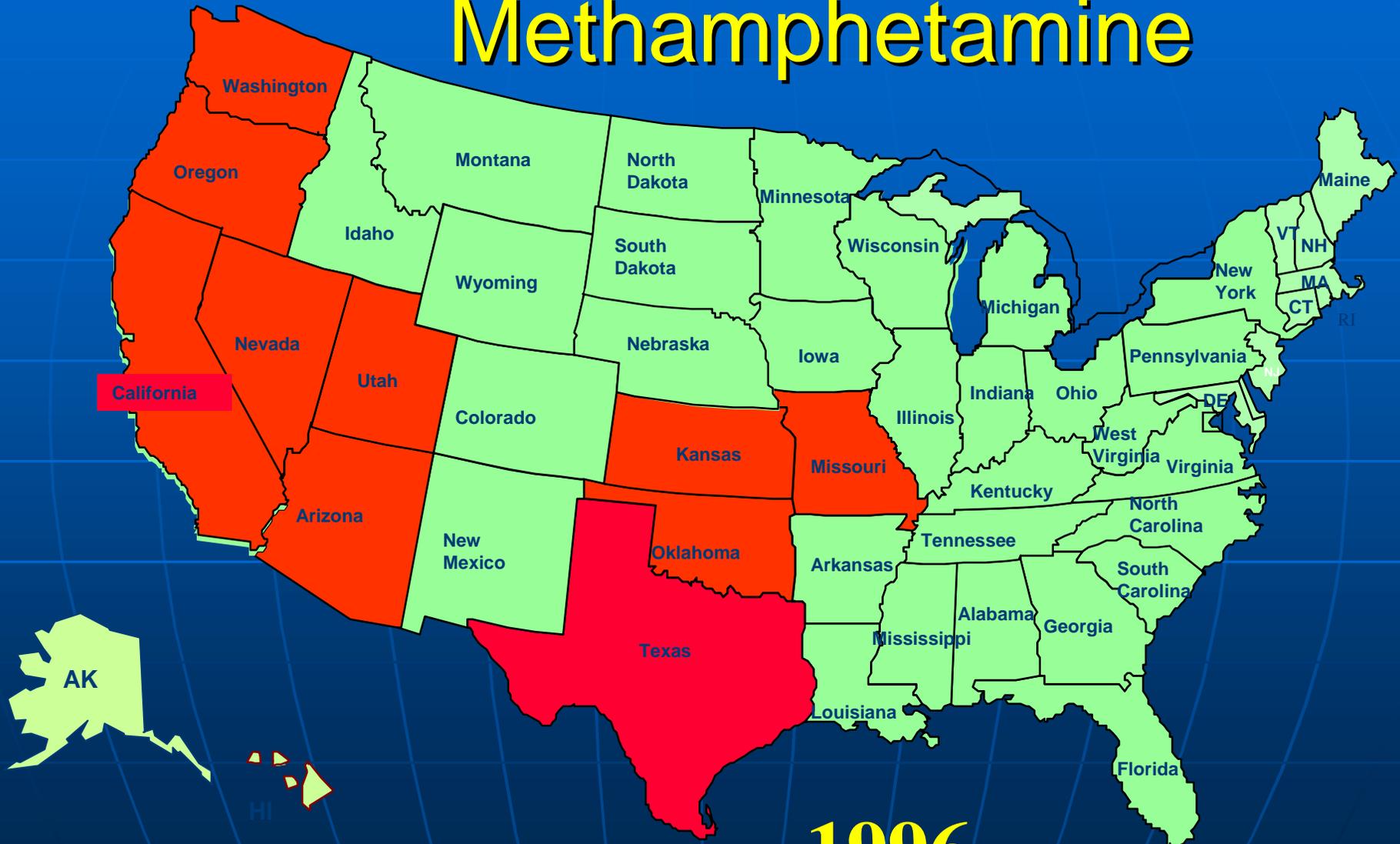


National Epidemic of Methamphetamine



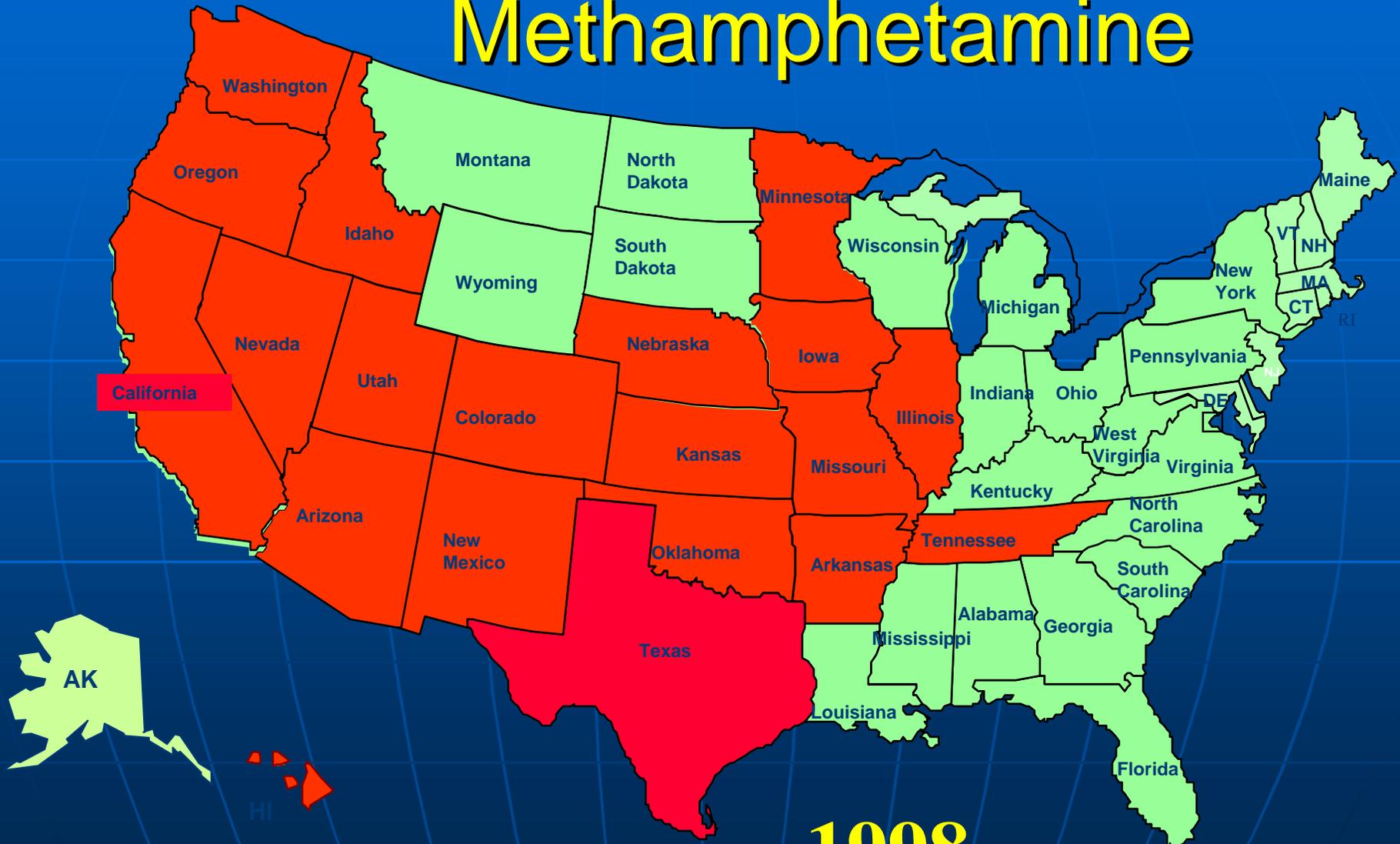
1990

National Epidemic of Methamphetamine



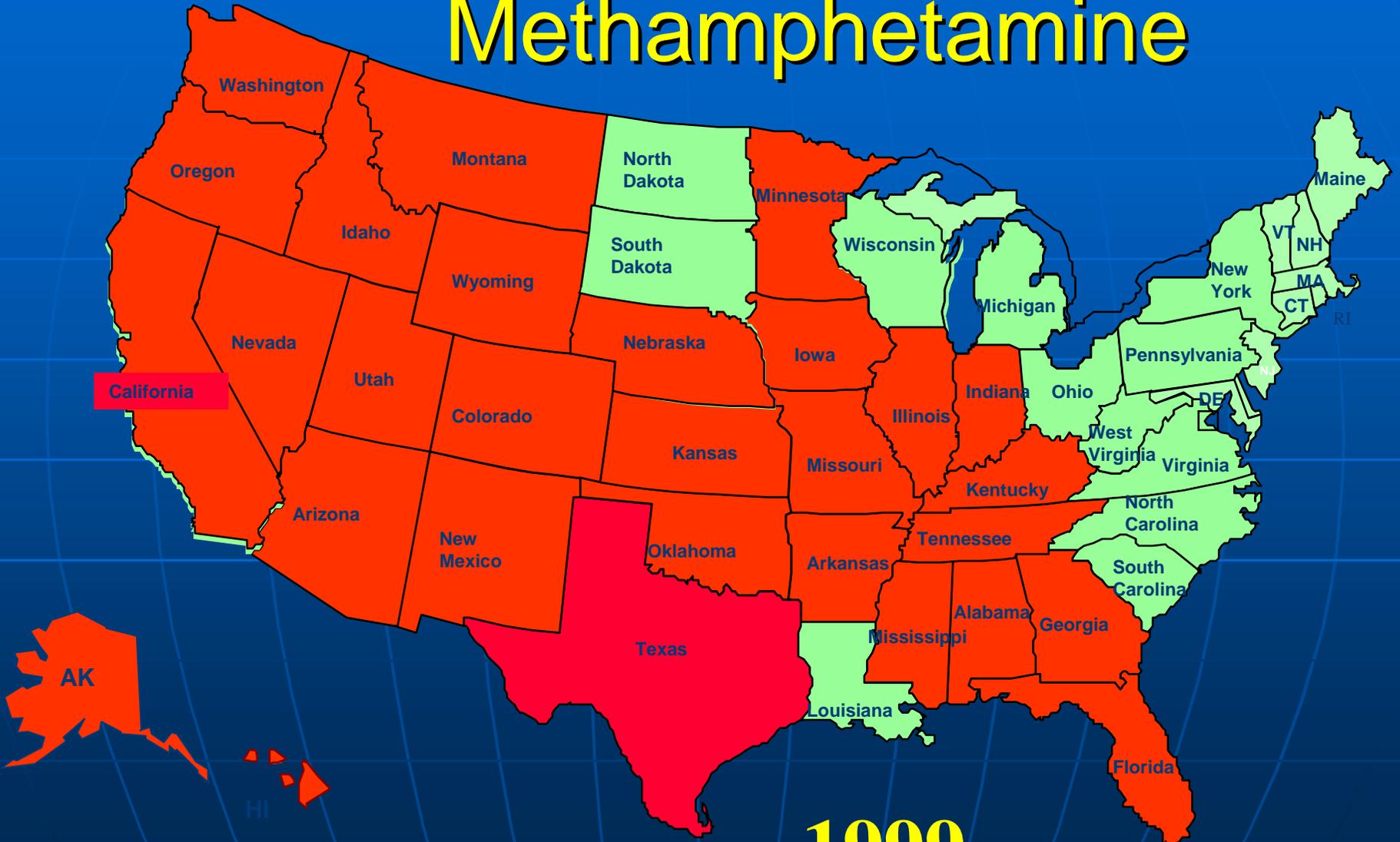
1996

National Epidemic of Methamphetamine



1998

National Epidemic of Methamphetamine

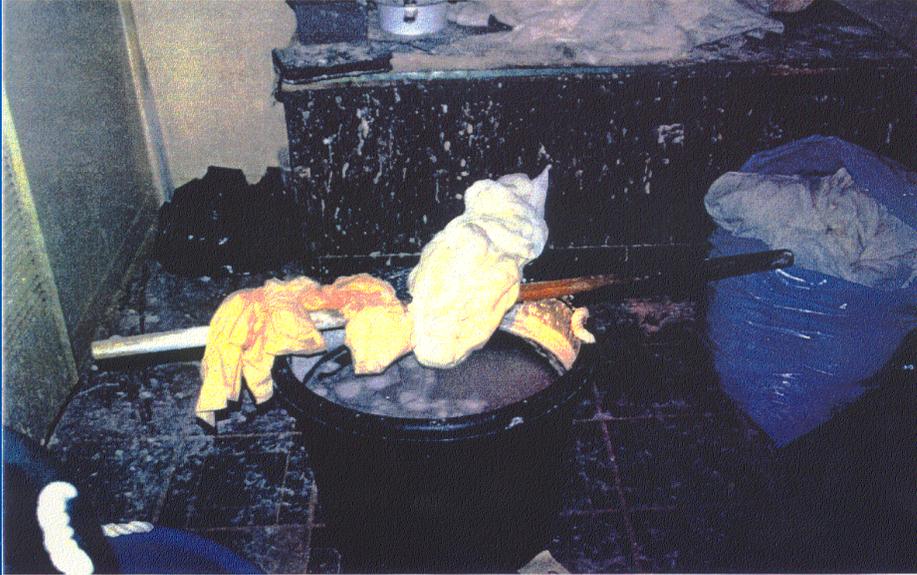


1999

History of Clandestine Methamphetamine Laboratories

- The Late 1980's saw the Beginning of the End of the P2P Method (Biker Gangs) and the Rise of the Ephedrine Reduction Method
- Still a West Coast Phenomenon, Poly -Drug Organizations Began to Dominate the Methamphetamine Market, Particularly the Large Scale Mexican National Organizations
- Easy to Make, Easy to Get Ingredients, Big Profit Margin..... 1 Pound Goes for \$4,000 to \$16,000.

Methamphetamine Laboratories





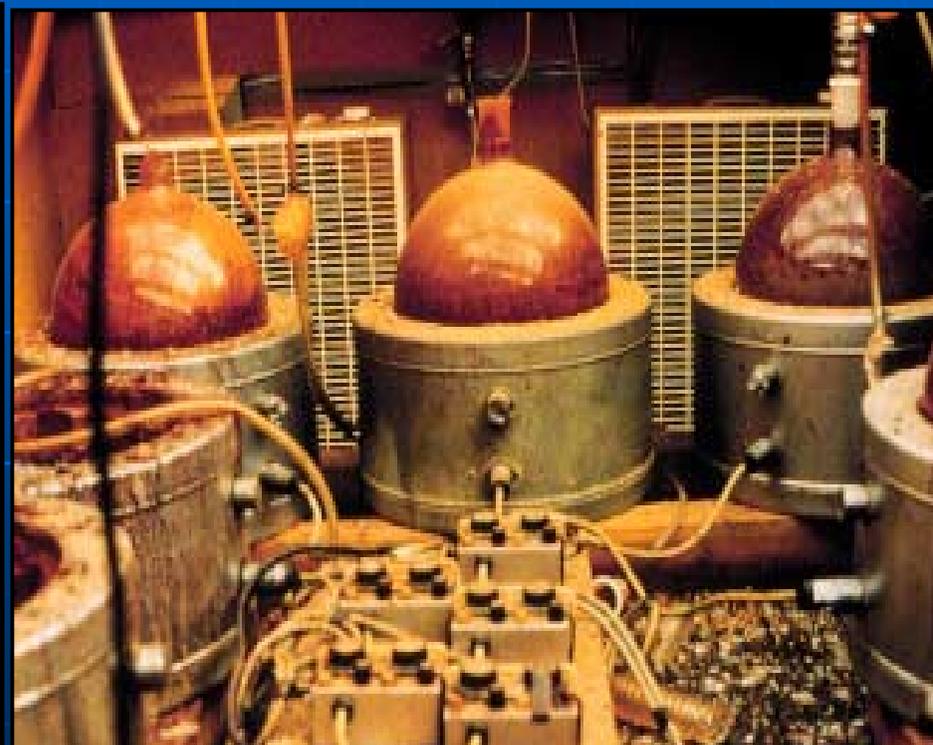
A Typical User Lab





Methamphetamine Super Lab

10 lbs per cycle



SMALL TOXIC LABS (STL)

Generally 2 oz. or less





Clandestine Laboratory in San Diego Days Inn Motel Room



METHAMPHETAMINE LAB BRANDON FLORIDA



- Stealing Electricity.
- Explosives and Weapons Found at Lab Site.
- Lab and Chemicals at Site – About 1 Lb. of Methamphetamine Per Day.

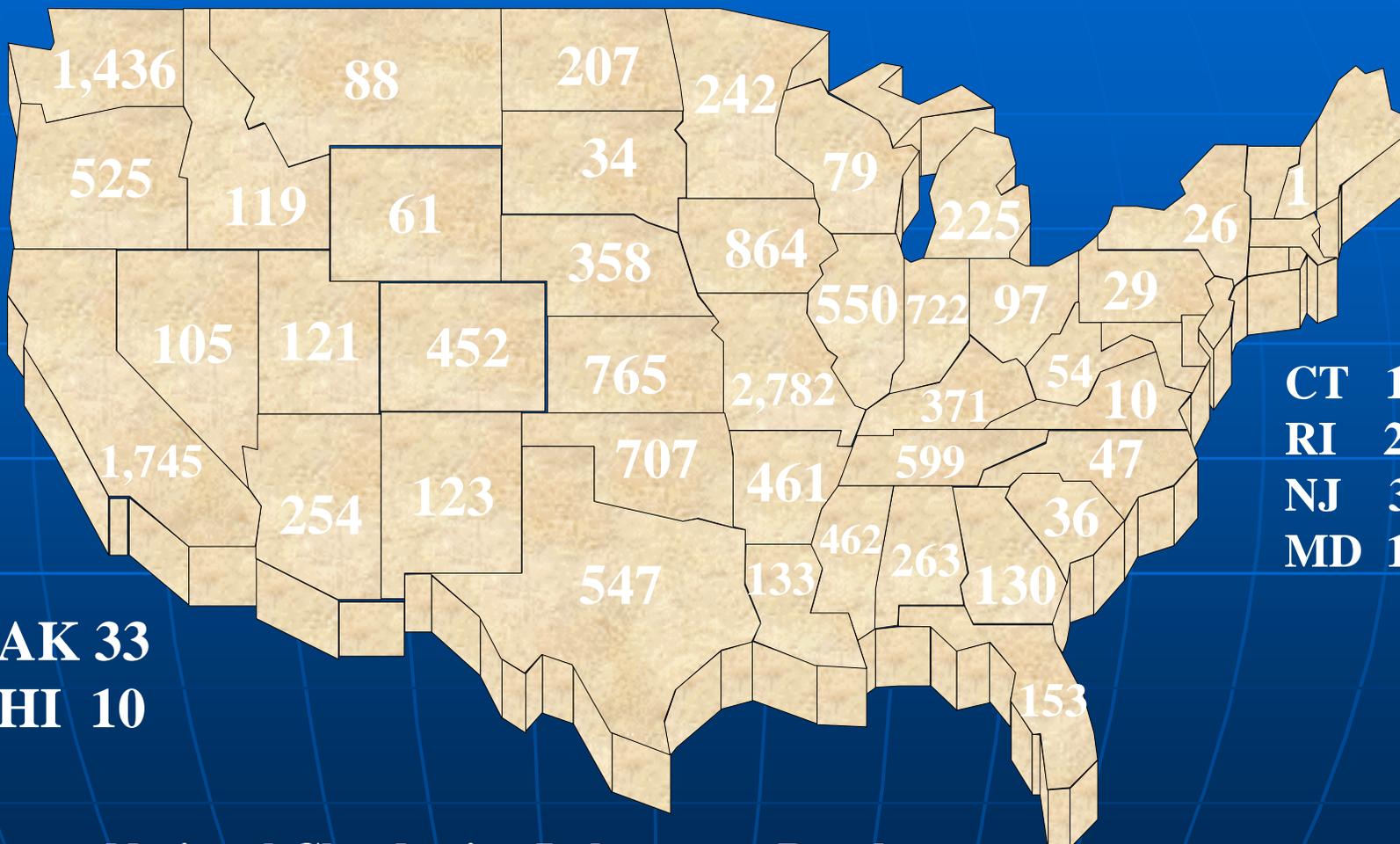
METHAMPHETAMINE LAB TYPES

- **MEXICAN METH (SUPER LABS)**
***80% OF ALL METH CONSUMED**
- **SMALL TOXIC LABS (STLS)**
***94% OF ALL LABS SEIZED**
- **PSEUDOEPHEDRINE (main precursor)**

All Meth Clandestine Laboratory Incidents (Labs, Dumpsites, Chem/Glass/Equipment) Calendar Year 2001



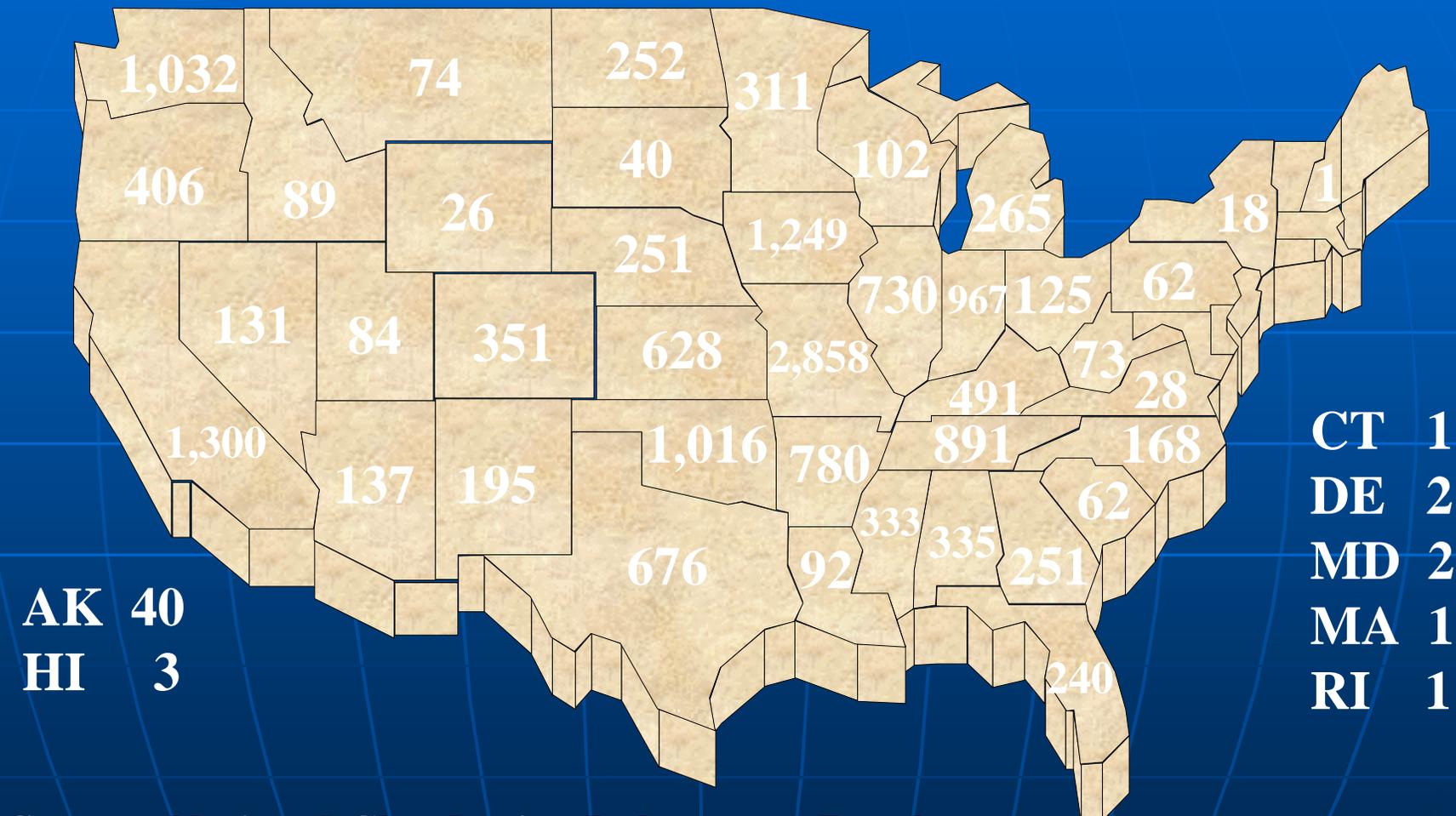
Total of All Meth Clandestine Laboratory Incidents Including Labs, Dumpsites, Chem/Glass/Equipment Calendar Year 2002



Source: National Clandestine Laboratory Database
Total: 16,033 / 46 States Reporting
Dates: 01/01/02 to 12/31/02

Totals are based on data reported to EPIC and entered into the CLSS as of 05/26/04

Total of All Meth Clandestine Laboratory Incidents Including Labs, Dumpsites, Chem/Glass/Equipment Calendar Year 2003



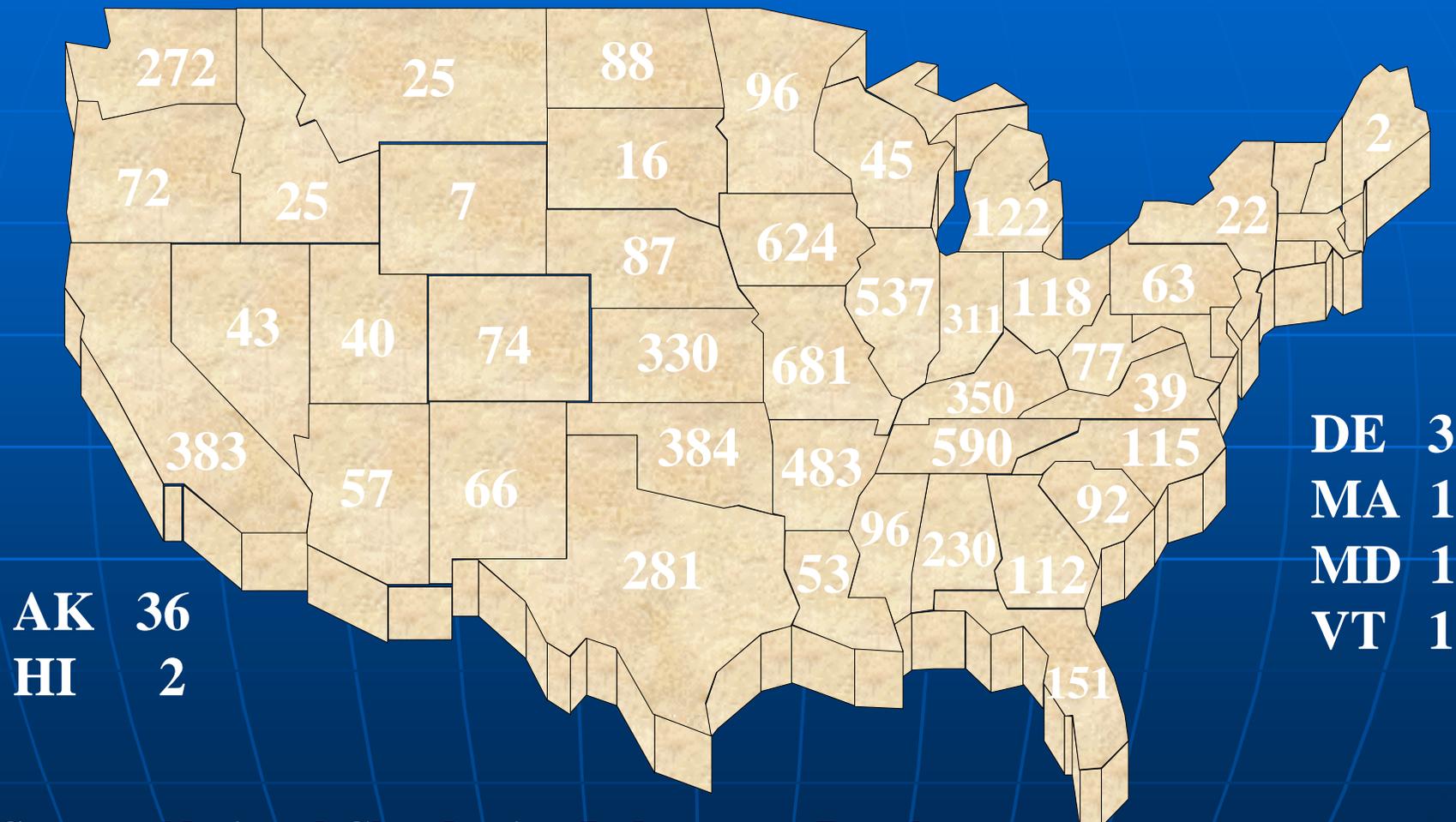
Source: National Clandestine Laboratory Database

Total: 17,170/ 47 States Reporting

Dates: 01/01/03 to 12/31/03

Totals are based on data reported to EPIC and entered into the CLSS as of 08/03/04

Total of All Meth Clandestine Laboratory Incidents Including Labs, Dumpsites, Chem/Glass/Equipment Calendar Year 2004



Source: National Clandestine Laboratory Database

Total: 7,303 / 46 States Reporting

Dates: 01/01/04 to 08/03/04

Totals are based on data reported to EPIC and entered into the CLSS as of 08/03/04

Pseudoephedrine is the primary precursor for all clandestine methamphetamine labs



Methamphetamine Production

- P2P + Methylamine \longrightarrow d,l methamphetamine
P2P added to Schedule 2 in 1980

- Ephedrine/Pseudoephedrine Reduction Method

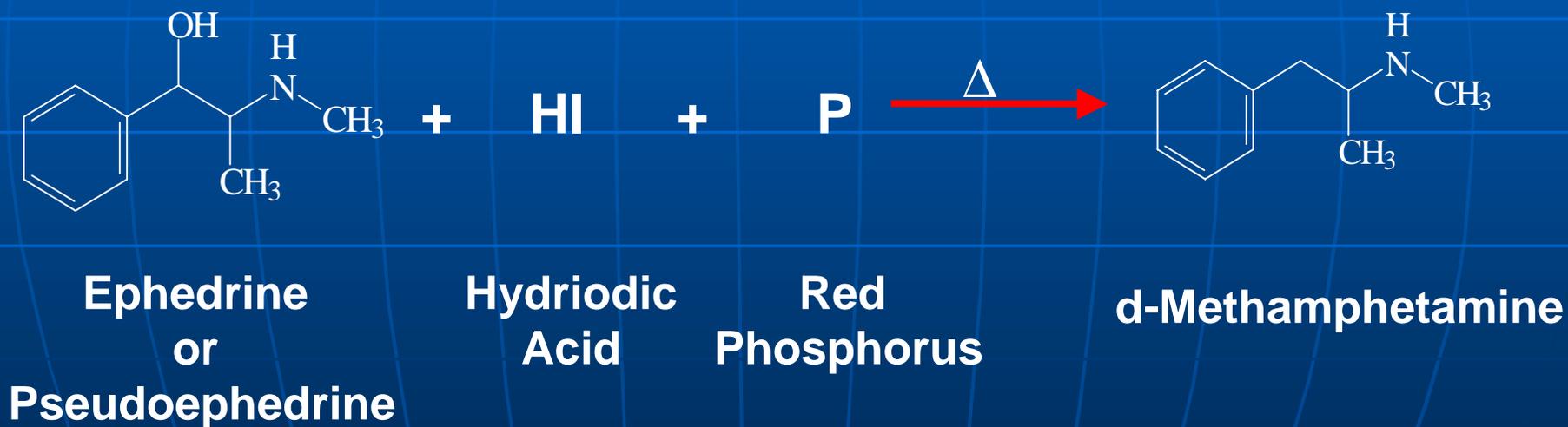
Ephedrine/Pseudoephedrine + Hydriodic Acid + Red-P
 \longrightarrow d-methamphetamine

Ephedrine/Pseudoephedrine + Iodine + Red-P
 \longrightarrow d-methamphetamine

Ephedrine Reduction - HI Method

- The most popular method by far
 - accessibility of chemicals
 - easy to manufacture
- Chemicals needed
 - Ephedrine or pseudo, red phosphorus, hydriodic acid (iodine crystals), sodium hydroxide, organic solvents (ether, freon, acetone), and hydrogen chloride gas (sulfuric acid and salt)

Methamphetamine Production



Other Methods

- Lithium /Sodium Metal
- Anhydrous Ammonia

Regional Trends

- West Coast
 - "Mexican national" labs
 - Ephedrine/pseudo-H.I.-Red
- Midwest
 - Birch (nazi) method
- East Coast
 - Combination



500 g

Phosphorus, Red, Amorphous
Powder
Technical

LOT 513348

J. T. Baker Chemical Co., Phillipsburg, N. J.



Opening instructions:
Remove tape to expose screw cap lid. Unscrew lid and then carefully
remove seal and pry lid to remove.



12 PCS.
FLINT

S/S JAR
6 OZ.

1276 KNOLL RD.
VISTA, CA.
92-19-97

[Handwritten signature]

S/S
Jar

3 19 97

IODINE CRYSTALS

Ephedrine Reduction

- Birch Method

- Fastest Growing in popularity- Predominately in the Mid-West
- Chemicals Needed
 - Pseudo ephedrine or Ephedrine, anhydrous ammonia, sodium or lithium metal, sodium hydroxide, organic solvents (ether, camping fuel, acetone), and hydrogen chloride gas (sulfuric acid and salt)



ANHYDROUS AMMONIA PIPELINE



- **Tampa Fla. Agricultural Area Phosphate Industry (Fertilizer) May 27, 2003.**

- **Meth Cook Broke into 60 Mile Tampa Bay Pipeline with a Wrench - Wearing a Scuba Mask.**

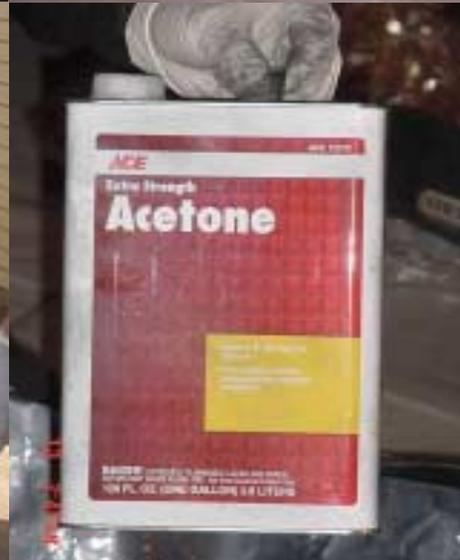
- **600 Lbs. of Pressure Per Square Inch of Anhydrous Ammonia.**

FISHHAWK BLV, TAMPA FLORIDA



- Released Toxic Cloud of AA Gas
- 500 Square Acres Scorched – Killed Wildlife in Area.
- Two Schools (2,000 Students) in Area Closed For 2 Days – Subdivision Sealed Off.

Methamphetamine Laboratory Dangers



Burned Clandestine Drug Laboratory





2 15 95

Methamphetamine Clandestine Laboratory Explosion



\$3.5 million dollar fire: 122 motel rooms destroyed
2 burned cooks in custody



Clandestine Laboratory Fires and Explosions 2003

- **554 fires and or explosions relating to the illegal production of Methamphetamine (311 in 2002)**
- **33 individuals killed (22 in 2002)**

Silent Victims



Total of All Children Affected at Clandestine Laboratory Incidents Including Labs, Dumpsites, Chem/Glass/Equipment Calendar Year 2003



Source: National Clandestine Laboratory Database
Total: 3,627 Children / 46 States Reporting
Dates: 01/01/03 to 12/31/03

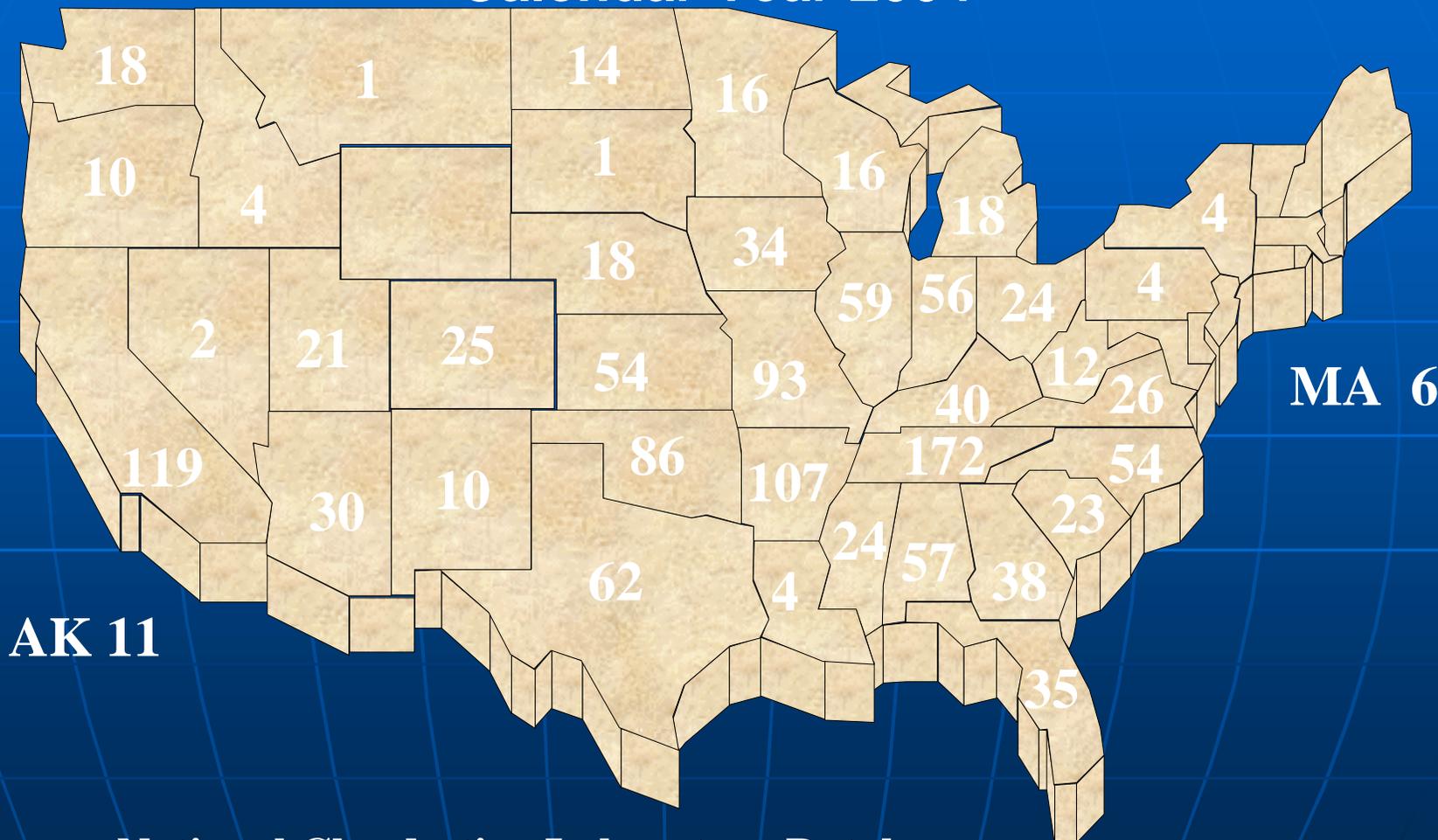
Totals are based on data reported to EPIC and entered into the CLSS as of 07/30/04

Clandestine Laboratory Fires and Explosions 2003

Children effected:

- 683 were exposed to toxic chemicals
- 1019 were present at meth labs
- 39 were injured
- 1 was killed
- 909 resided at the lab site
- 504 had to be placed in protective custody

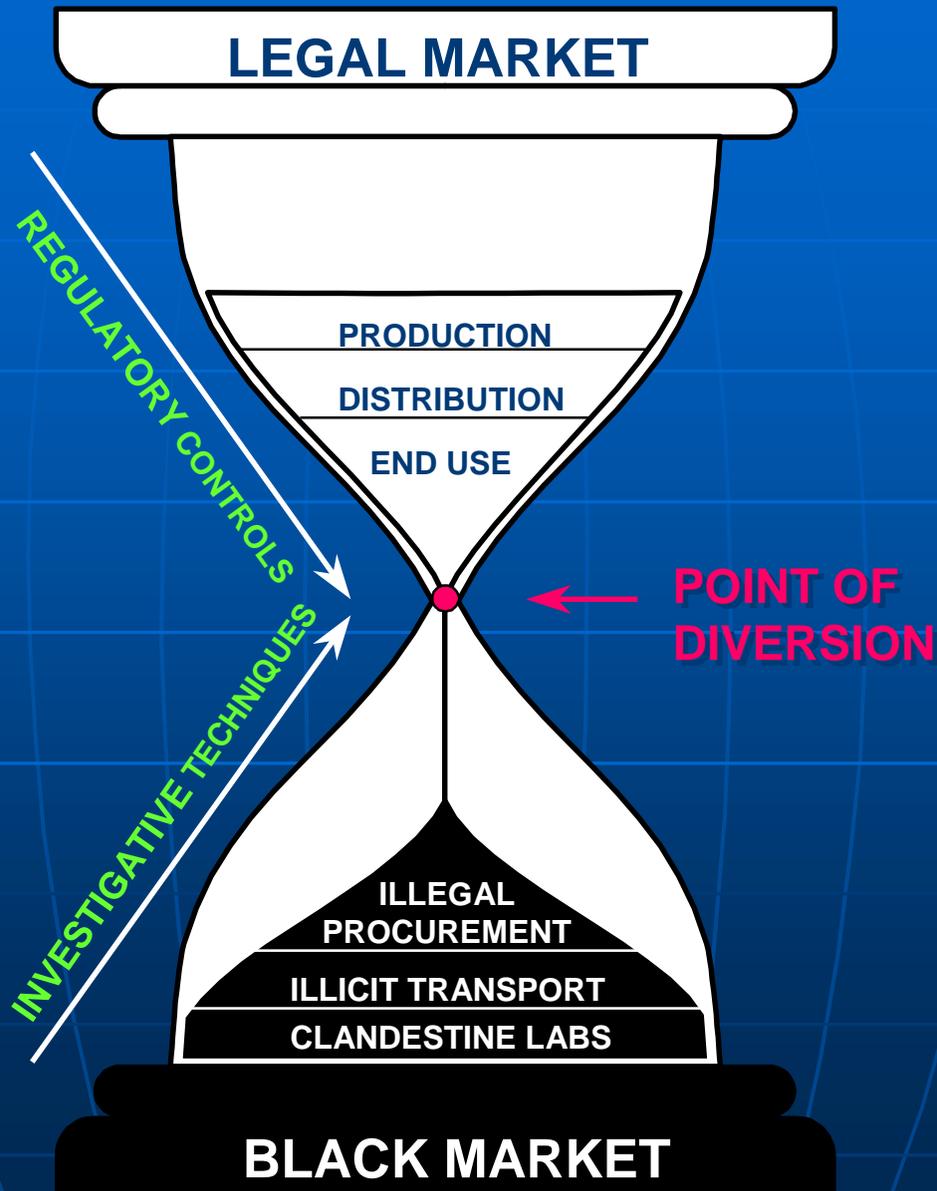
Total of All Children Affected at Clandestine Laboratory Incidents Including Labs, Dumpsites, Chem/Glass/Equipment Calendar Year 2004



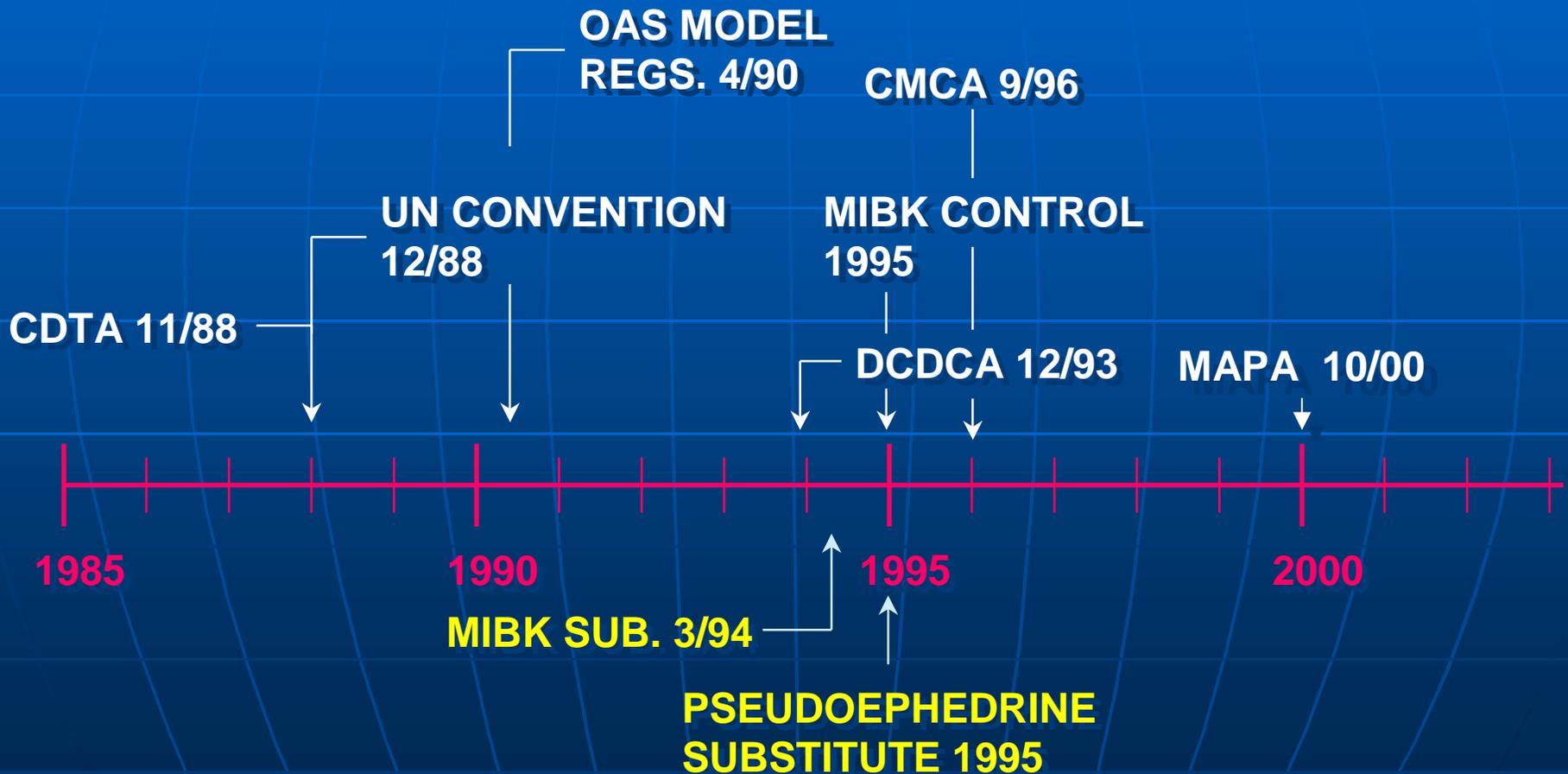
Source: National Clandestine Laboratory Database
Total: 1,408 Children / 43 States Reporting
Dates: 01/01/04 to 12/31/04

Totals are based on data reported to EPIC and entered into the CLSS as of 07/30/04

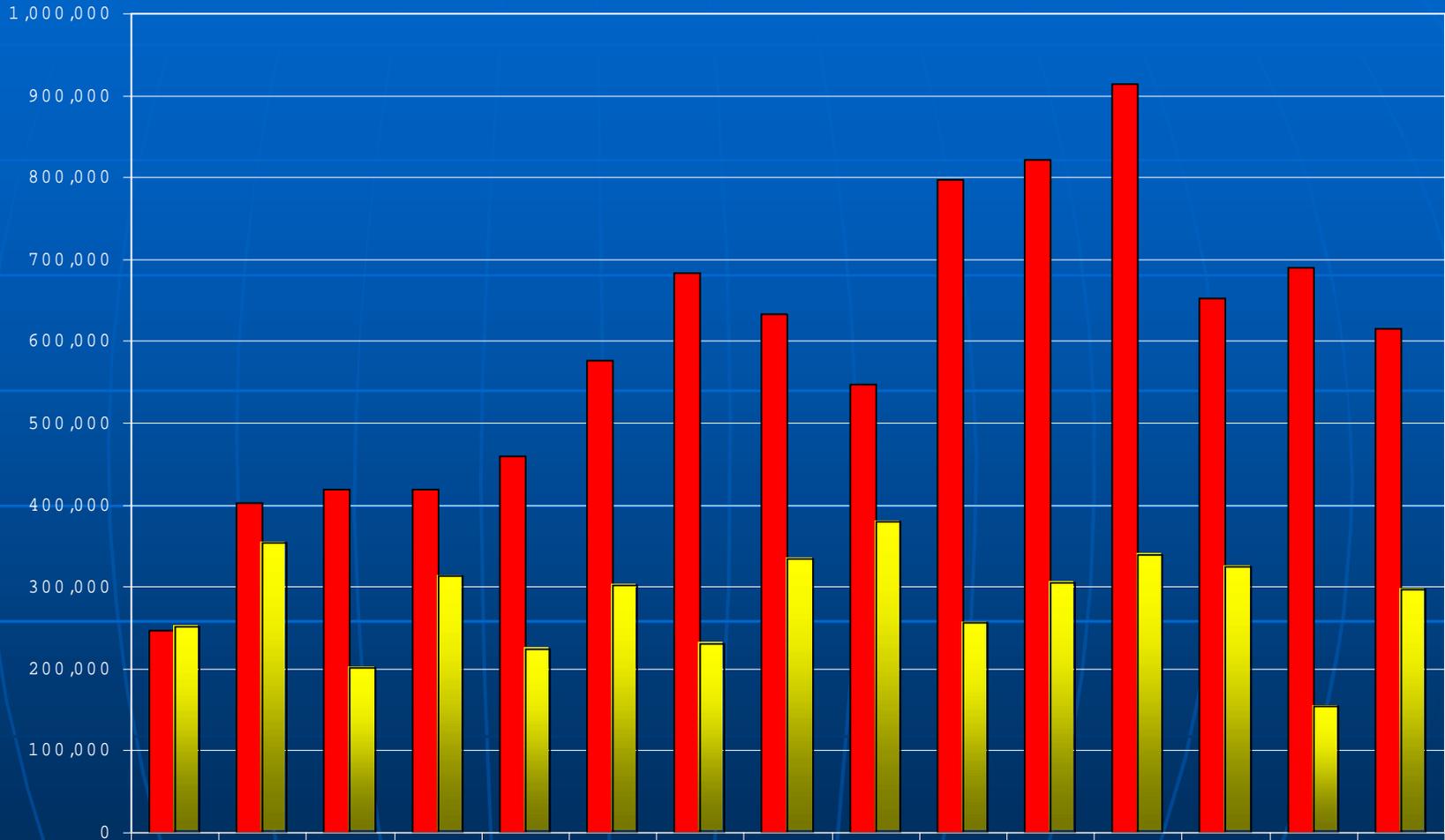
CHEMICAL CONTROL STRATEGY



A BRIEF HISTORY OF CHEMICAL CONTROL



Declared U.S. Imports of Ephedrine and Pseudoephedrine



	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
■ PSEUDOEPHEDRINE	247,376	402,103	419,549	418,933	459,471	575,616	683,534	632,531	547,127	797,479	822,035	913,884	652,566	690,318	614,948
■ EPHEDRINE	252,320	353,406	201,809	313,508	224,352	301,849	230,188	334,872	379,732	256,430	305,429	340,071	325,239	154,628	296,987

Year

Ephedrine Trafficking Routes



Pseudoephedrine Trafficking Routes



Pseudoephedrine Trafficking

- The black market price in California for case lots of pseudoephedrine (17,280 Tabs) is \$4,000 - \$6,000.
- Makes nearly 1 ½ pounds of methamphetamine
- 1 pound of methamphetamine sells \$4,000 - \$16,000.



Pseudoephedrine Seizure

PSEUDOEPHEDRINE, HCL 60 MG
NASAL DECONGESTANT
30 BOTTLES X 1000 TABLETS
FOR: G.C. MEDICAL PRODUCTS
LOT: 012041
PRODUCT OF CANADA
FOR EXPORT ONLY



Pseudoephedrine Seizure



Pseudoephedrine Extraction Laboratory in California





Blister Packs at Clandestine Methamphetamine Laboratory Site



Blister Packs at Clandestine Methamphetamine Laboratory Site



PSEUDOEPHEDRINE Blister Packs - Smurfing



- 2003 Blister packs were found at 48% of STL's (when the source of pseudo was reported.)

- **BLISTER PACKS**

- 1998 - 31 labs

- 2001 – 1,173 labs

- 2003 – 1,655 labs

- Bulk pseudoephedrine decrease
- Acceleration in blister pack use.

PSEUDOEPHEDRINE



RETAIL THRESHOLD

- There is a 9 gram Single Transaction Threshold (183 - 60mg tablets).
- Each Single Package Can Contain No More Than 3 gms. of Pseudoephedrine (61 - 60mg tabs).
- Recommended Dosage: 1 Tab / 4hrs. Take No Longer Than 7 days. Total of 28 Tabs / Week.

• **Blister Pack Exemption:**
Created for Rural Hardship Situations.

Legislative Efforts

- CA legislation Jan. 2000 limits total purchases of pseudo to 9 grams. In 2000 – 1,631 labs. In 2003 – 813 labs (a 50% decline). Sen. Feinstein Bill seeks to remove blister pack exemption.
- MO passed a law requiring all pseudo behind counters and a 2 box or 6 gram limit.
- Jackson County , MO increased sales tax by 1/8 % to combat methamphetamine in their County.
- Arnold MO passed city ordinance requiring identification on purchase of pseudo of over 1 box.
- Iowa has bill pending making all pseudo and ephedrine Schedule V drugs.

Oklahoma State Pseudoephedrine Law

- 3/22/04, Oklahoma State Senate passed House Bill # 2176, a/k/a "Nik Green Act."
- Act places pseudoephedrine drug products into Schedule V.
- Pseudoephedrine drug products can only be dispensed, sold, or distributed by a licensed pharmacist or licensed pharmacy technician.
- Buyers have to show photo ID with date of birth.

Oklahoma State Pseudoephedrine Law

- Purchasers are required to sign a written log or receipt.
- Receipt gives the date of the transaction, name of the buyer, and the amount purchased.
- Purchasers are limited to 9 grams within a 30-day period.
- Bill does not apply to compounds, mixtures or preparations in liquid, liquid capsule, or gel capsule form if pseudoephedrine is not the only active ingredient.

Oklahoma State Pseudoephedrine Law

Effect

State lab seizures have declined 70%

March	100
April	62
May	29

Current Methods of Diversion

Small Toxic Labs:

- Purchase “gray” market brands at convenience stores, gas stations, liquor stores, etc.
- Purchase brand name products from supermarkets, chain drug stores and box stores.
- Often “smurf” (buying several boxes at a number of stores).
- Also shop lift pseudoephedrine and/or ephedrine drug products from stores.

Current Methods of Diversion

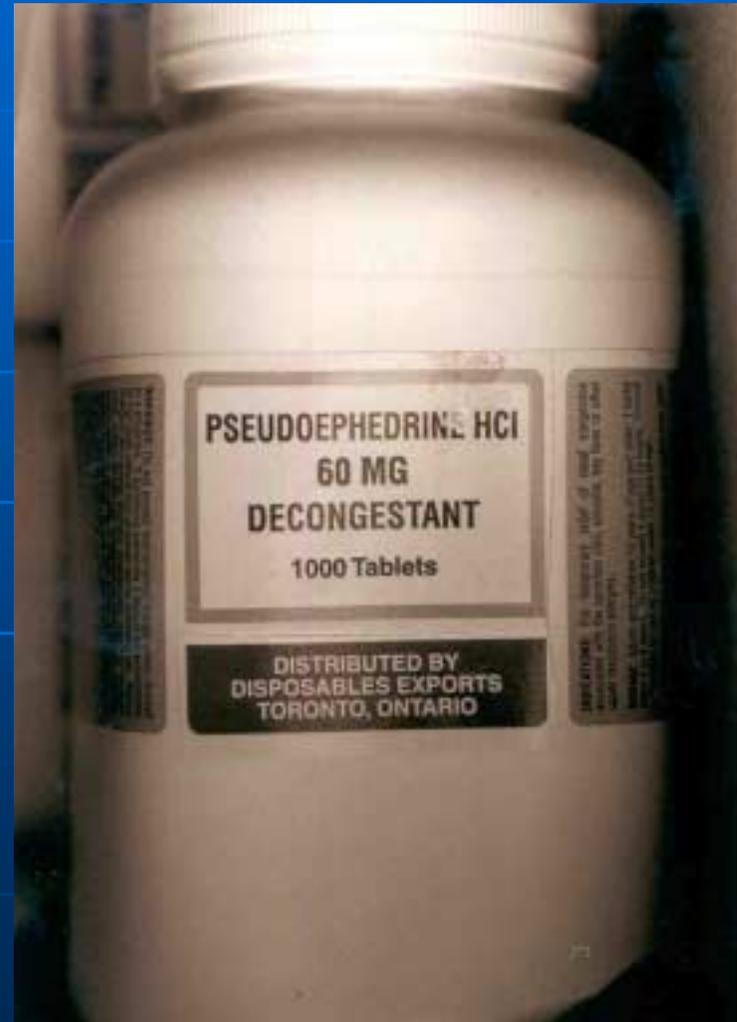
Large Organizations:

- Purchase tablets in bulk from unscrupulous distributors.
- Tablets are also smuggled from overseas into Panama, California, and Mexico.
- Smuggled tablets may be destined for the United States for manufacture into methamphetamine
- Manufacture into methamphetamine in Mexico *and* Smuggled into the United States.

ADMINISTRATIVE ACTIONS

- From 1998 to present, there have been 123 voluntarily surrenders of registration certificates due to alleged misconduct.
- From 1997 to present, there have been 132 Orders to Show Cause investigations.

Canadian Pseudoephedrine Trafficking



Canadian Pseudoephedrine Trafficking



August 2000

100 tablets per bottle



January 2001

**1,000
tablets per
bottle**



April 2001

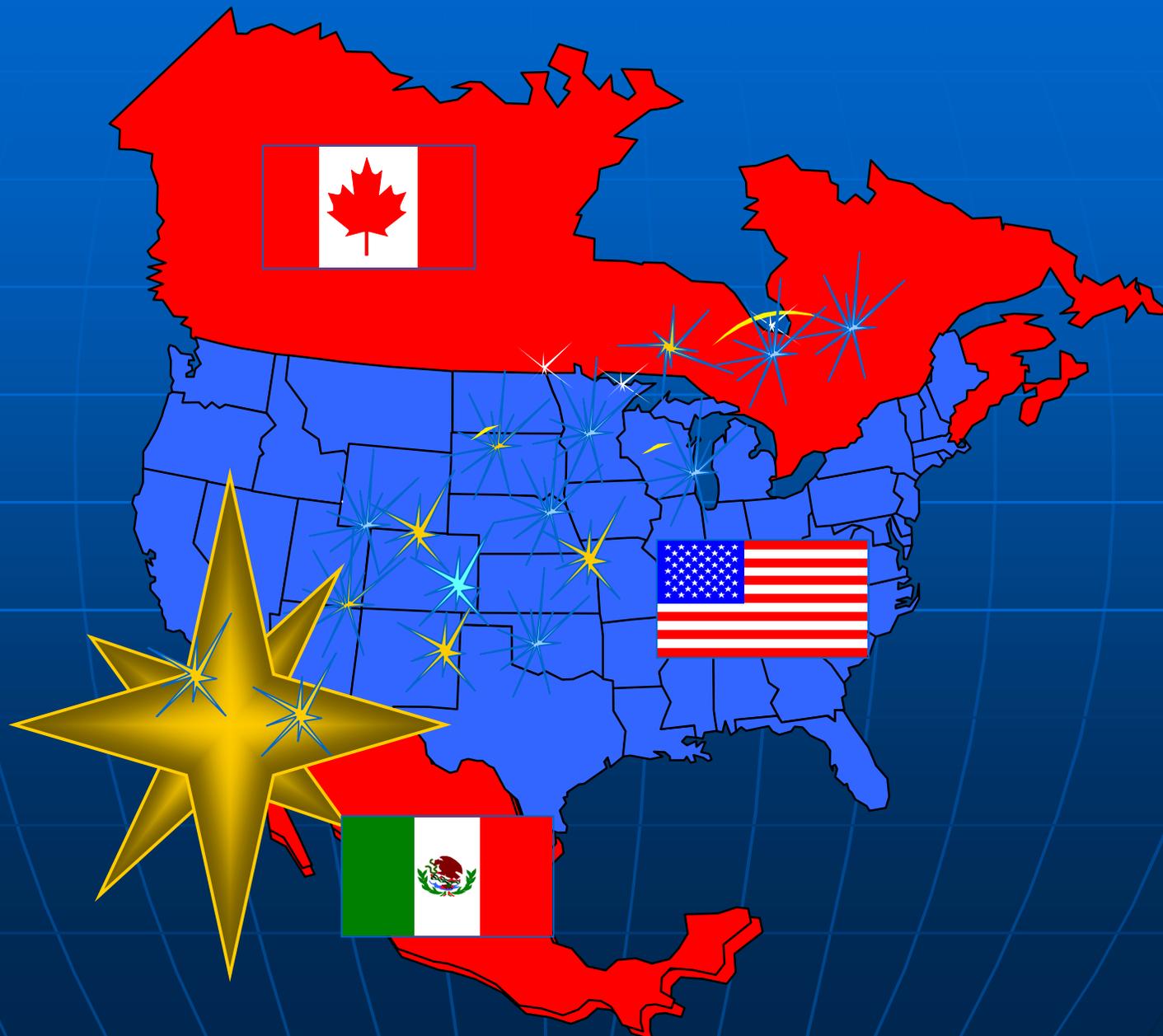
**23,000
tablets per
bottle**



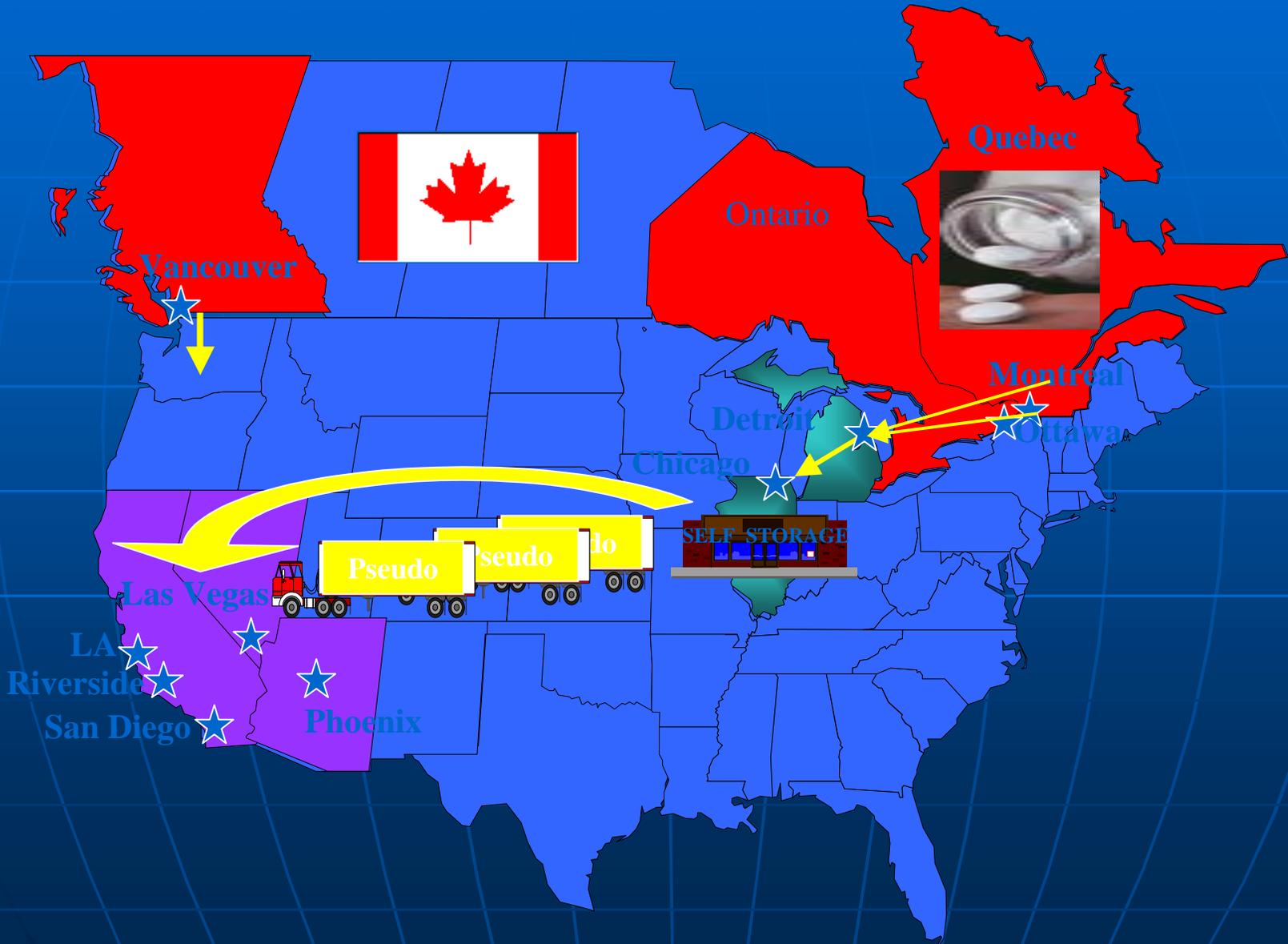
December 2001

80,000 tablets per container

Operation Northern Star

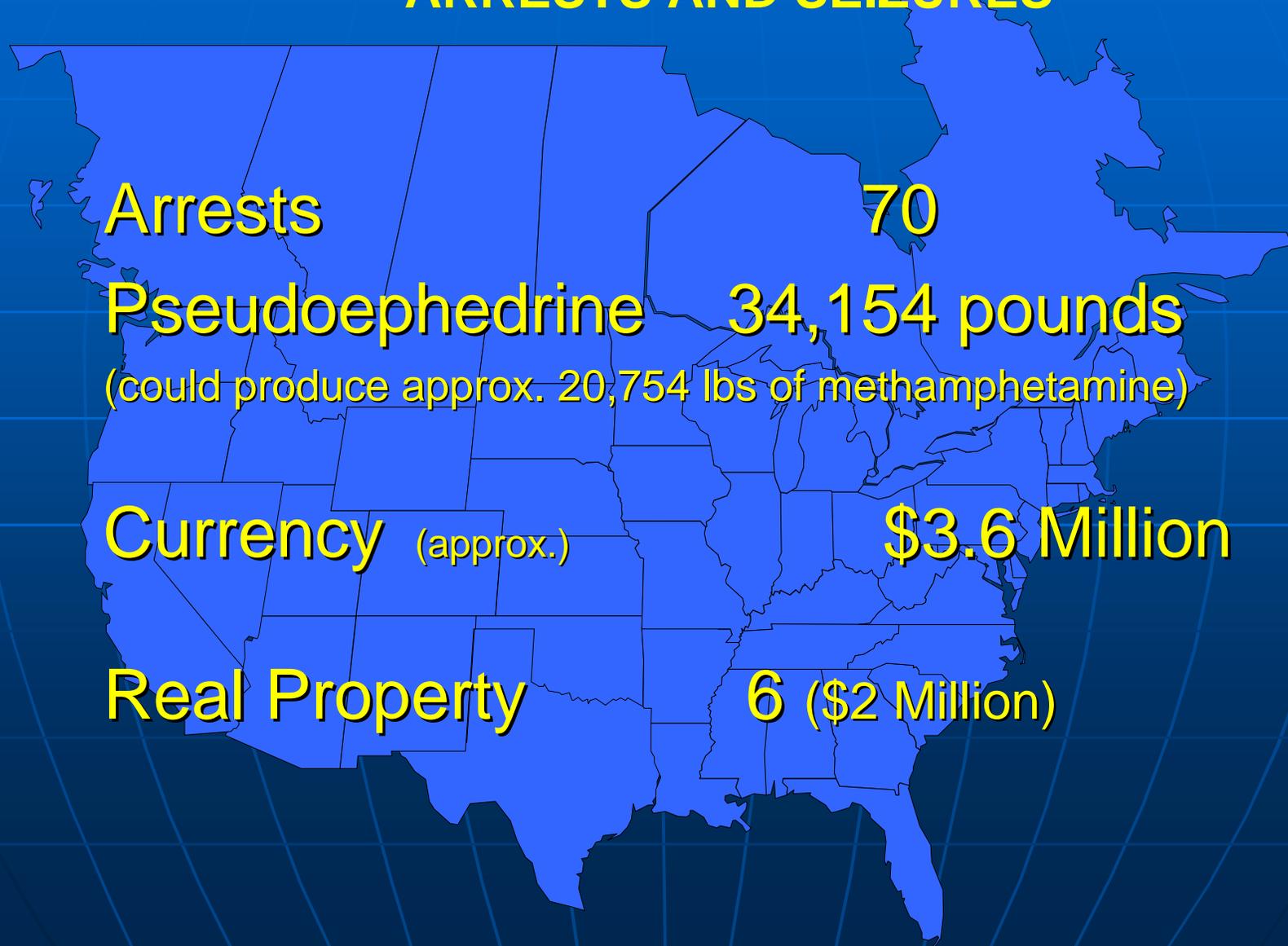


Operation Northern Star



OPERATION NORTHERN STAR

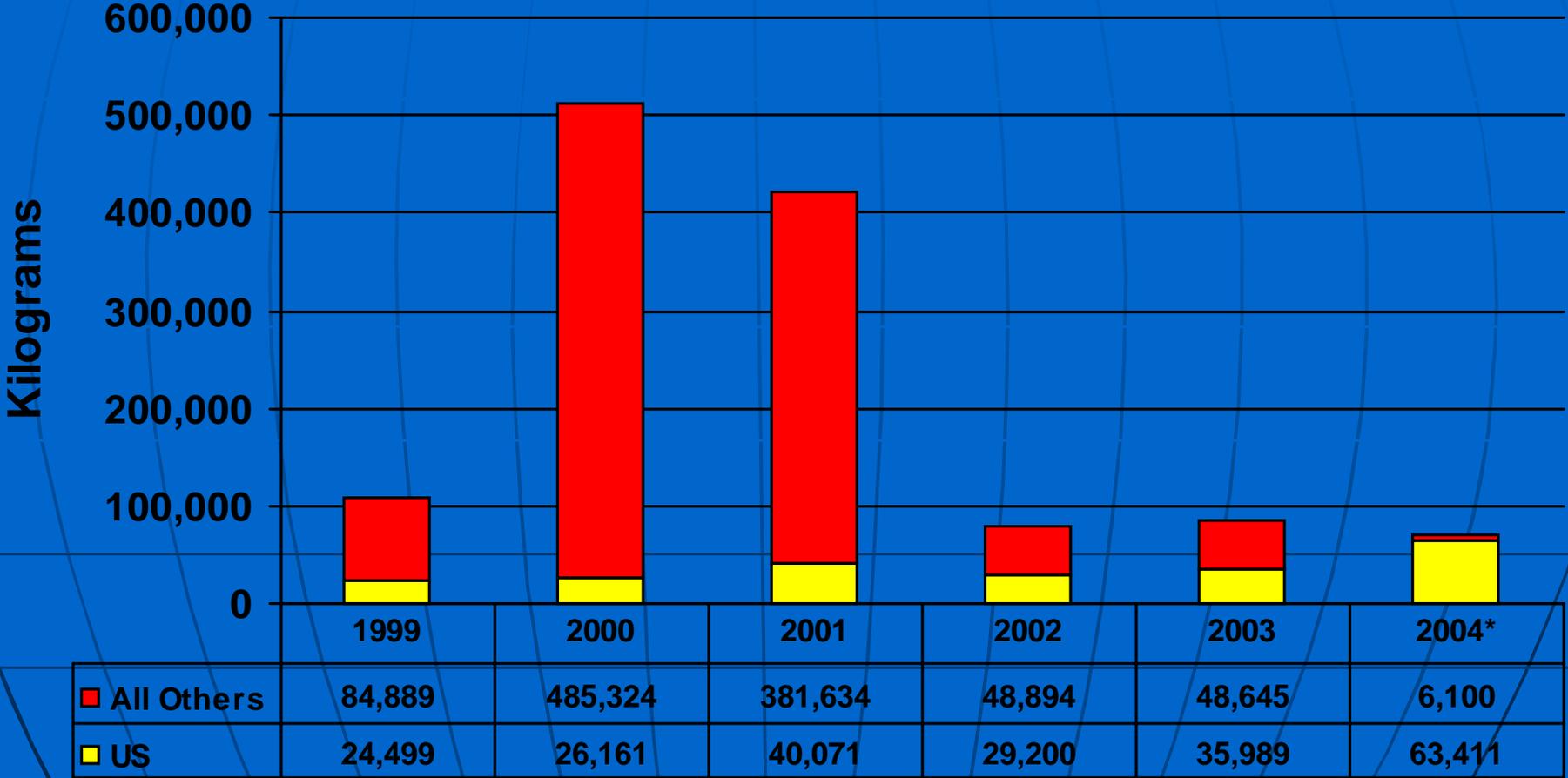
ARRESTS AND SEIZURES



Canadian Imports of Pseudoephedrine

Reported by Health Canada - Adjusted to US Export Figures

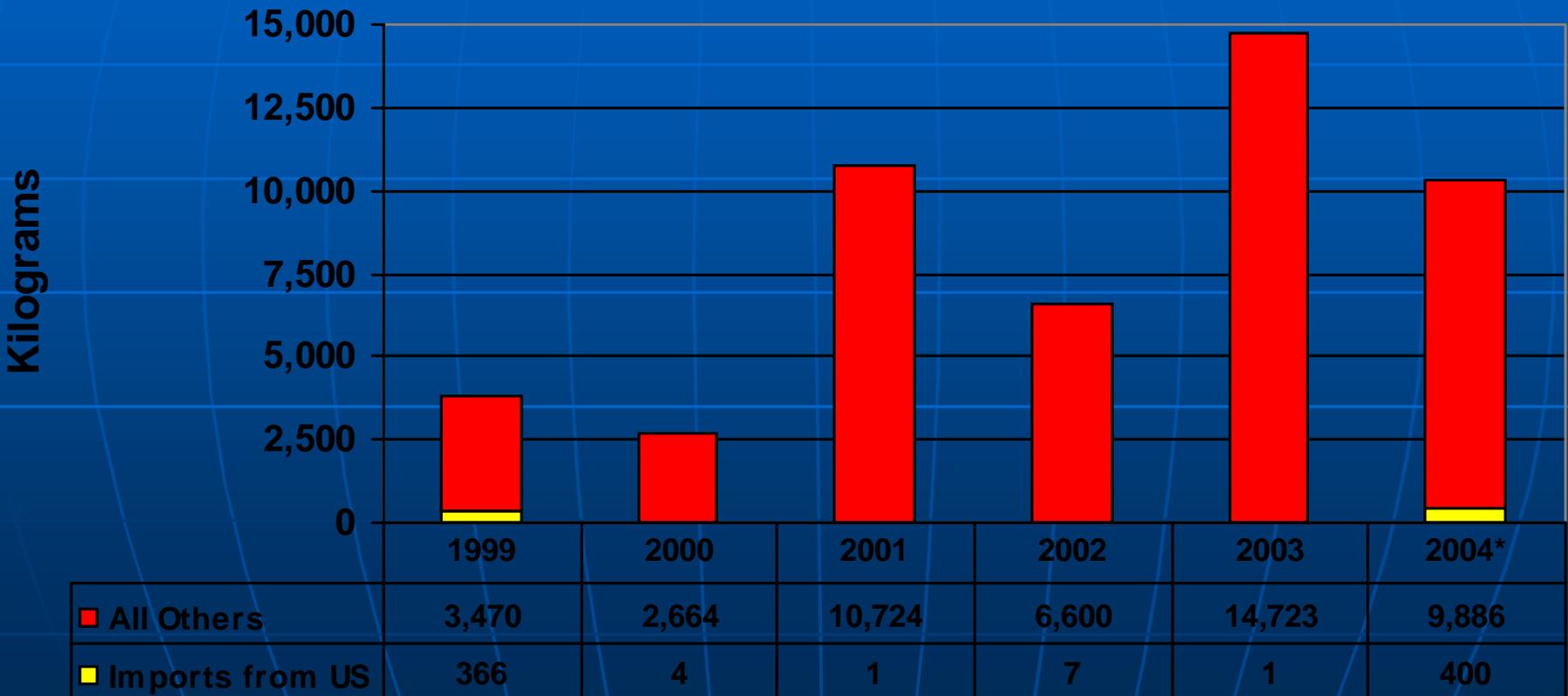
*As of August 17, 2004



Canadian Imports of Ephedrine

Reported by Health Canada - Adjusted to US Export Figures

*As of August 17, 2004



NEW TREND

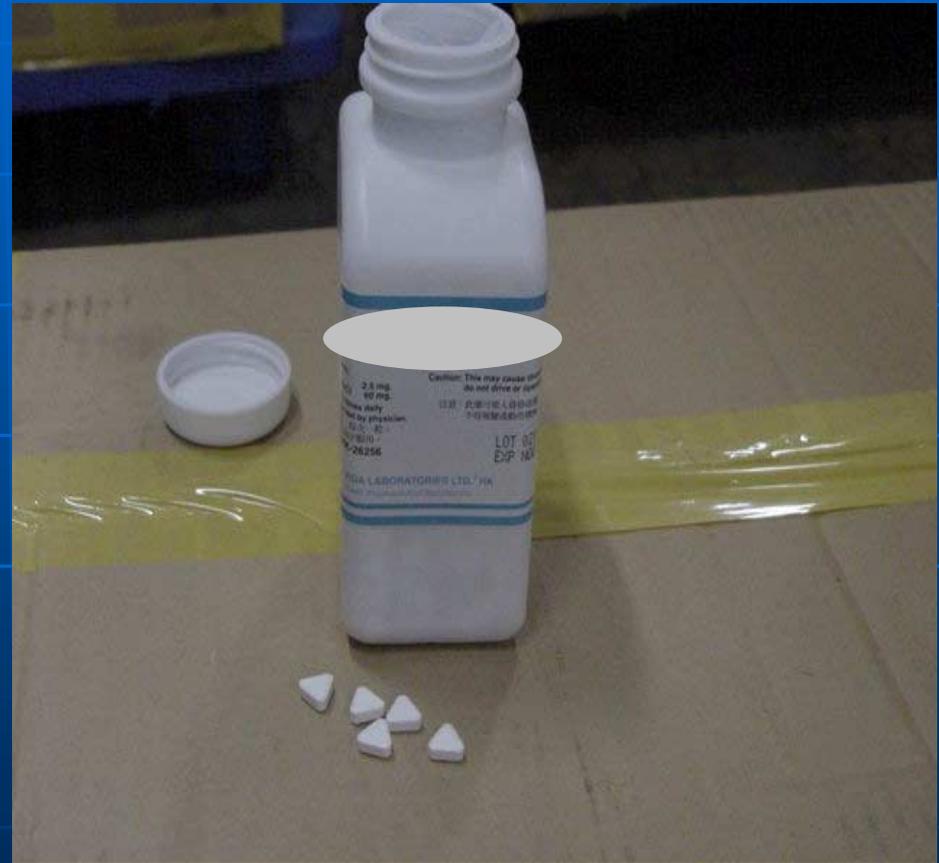
**PSEUDOEPHEDRINE
DIVERSION:
ASIA
TO LATIN AMERICA
VIA THE U.S.**

PHARMACEUTICAL PRODUCTS CONTAINING PSEUDOEPHEDRINE



SHIPMENTS

- **OVER 400 MILLION TABLETS HAVE BEEN SHIPPED TO FICTITIOUS CHEMICAL COMPANIES IN LATIN AMERICA**



Administrative Actions

- Import of 4 tons of pseudoephedrine from India
- U.S. firm to re-export to Mexico
- 80% of Mexican firm's customers do not exist or claimed discrepancies
- Denied import

NEW TRENDS

- **Southwest Border** methamphetamine seizures for CY 03 are up by approximately 50%.
- **Northern Border** seizures of PSE tablets have decreased from 22 million in CY 02 to 12,000 tablets since the beginning of CY 03.
- **Recent Seizures** of in CY 03 & 04 of millions of Chinese PSE tablets destined for Mexico.

Super Lab Seizures

- 2002 148 US (130 CA)
- 2003 137 US (132 CA)
- 2004* 35 US (30 CA)

* EPIC as of June 30, 2004

50% reduction since 2002.

Southwest Border* Methamphetamine

Seizures: 1998-2004

1998	807 Kilograms
1999	1,099 Kilograms
2000	1,251 Kilograms
2001	1,172 Kilograms
2002	1,129 Kilograms
2003	1,732 Kilograms
2004	803 Kilograms

*Source: EPIC, Southwest Border Seizure Statistics, as of 8/4/04; the southwest border methamphetamine statistics are for the states of Texas, New Mexico, Arizona and California.

ENVIRONMENTAL ISSUES

- **Every Pound of Meth Produced Yields 5- 6 Pounds of Toxic Waste.**
- **The Waste is Often Dumped into Waterways or Sewage Systems.**
- **Clean Up Costs are High and if on Privately Owned Land Up to the Landowner.**



DEA Hazardous Waste Cleanup Cost



FY-1995	\$2 Million
FY-1996	\$4 Million
FY-1997	\$6.8 Million
FY-1998	\$8 Million
FY-1999	\$11.4 Million
FY-2000	\$15.9 Million
FY-2001	\$22.1 Million
FY-2002	\$23.8 Million
FY-2003	\$16.2 Million
FY-2004	\$15.7 Million