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National Institute of Justice

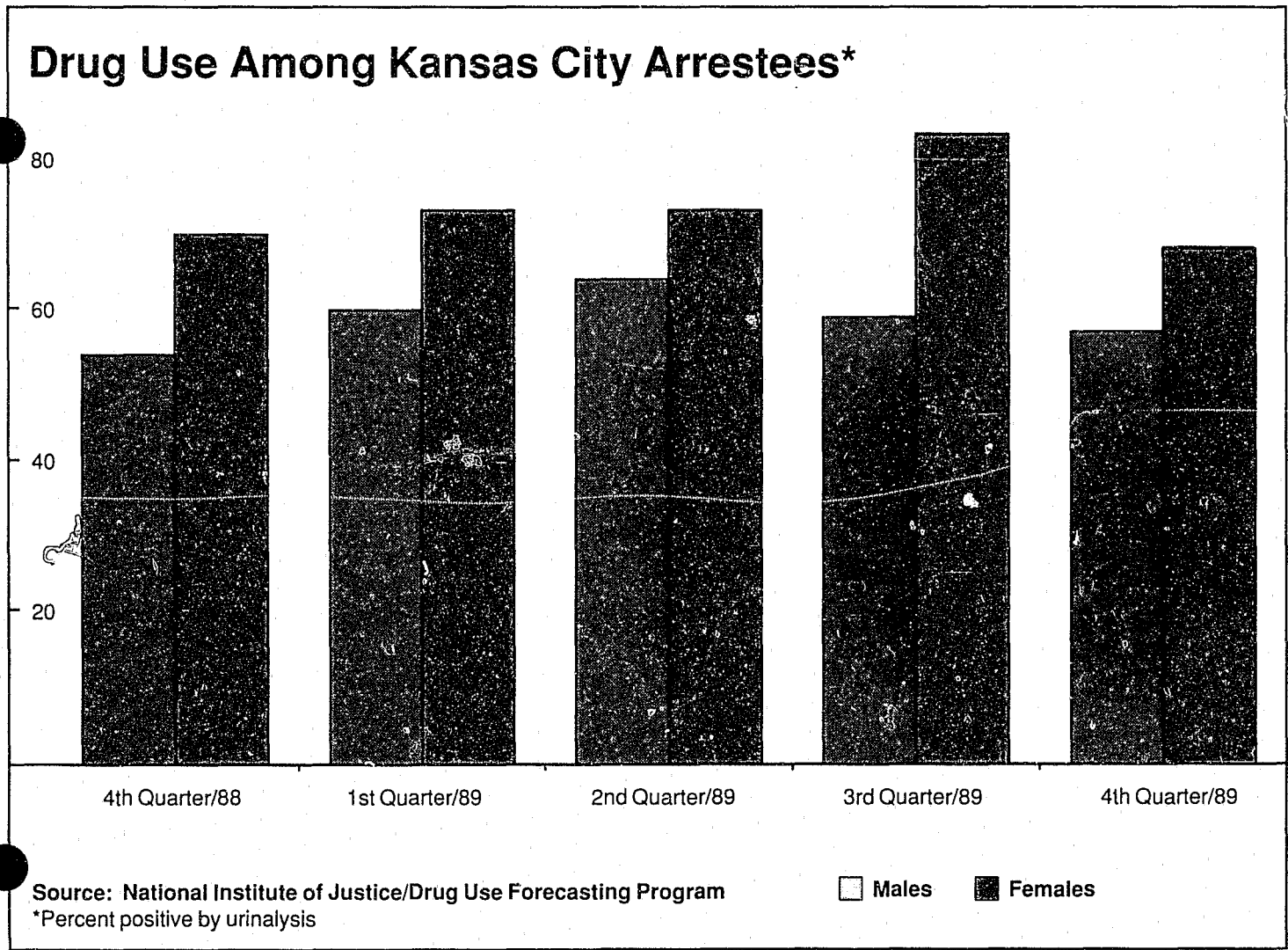
Research in Action

James K. Stewart, Director

May 1990

DUF

DRUG USE FORECASTING OCTOBER TO DECEMBER 1989



Drug Use Forecasting (DUF) Research Update

In 1987, the National Institute of Justice began the Drug Use Forecasting (DUF) program in New York City. By 1989, 22 cities had entered the program. DUF is designed to provide each city with estimates of drug use among arrestees and information for detecting changes in drug use trends. The DUF program provides the country with the first objective measure of recent drug use in this deviant segment of the population. The information can be used to plan the allocation of law enforcement, treatment, and prevention resources, as well as to gain an indication of the impact of local drug use reduction efforts.

Method

DUF data are collected in central booking facilities in participating cities throughout the United States. For approximately 14 consecutive evenings each quarter, trained local staff obtain voluntary and anonymous urine specimens and interviews from a new sample of arrestees. In each site, approximately 225 males are sampled. In some sites, approximately 100 female arrestees are also interviewed.

To obtain samples with a sufficient distribution of arrest charges, DUF interviewers limit the number of male arrestees in the sample who are charged

with the sale or possession of drugs. Because such persons are most likely to be using drugs at time of arrest and are undersampled, DUF statistics are minimum estimates of drug use in the male arrestee population. All female arrestees, regardless of charge, are included in the DUF sample because of the small number of female arrestees available.

Urine specimens are analyzed by EMIT™ for 10 drugs: cocaine, opiates, marijuana, PCP, methadone, benzodiazepine (Valium), methaqualone, propoxyphene (Darvon),

Drug Use by Male Arrestees*

| City | % POSITIVE ANY DRUG* | | | | | RANGE OF % POSITIVE | | | | % POSITIVE* | | | | | | |
|----------------|----------------------|----|----|----|----|---------------------|-----|-------|------|-------------|---------|---------|-----------|--------------|---------|-----|
| | 0 | 20 | 40 | 60 | 80 | 100 | LOW | DATE | HIGH | DATE | ± DRUGS | COCAINE | MARIJUANA | AMPHETAMINES | OPIATES | PCP |
| Philadelphia | | | | 81 | | | 79 | 8/88 | 84 | 4/89 | 30 | 72 | 21 | 1 | 10 | 3 |
| San Diego | | | | 80 | | | 66 | 6/87 | 85 | 1/89 | 47 | 39 | 35 | 33 | 25 | 4 |
| New York | | | | 76 | | | 76 | 4/89 | 90 | 6/88 | 39 | 68 | 19 | 0 | 22 | 3 |
| Chicago | | | | 71 | | | 71 | 11/89 | 85 | 7/88 | 42 | 55 | 25 | 0 | 26 | 14 |
| New Orleans | | | | 68 | | | 58 | 1/88 | 76 | 4/89 | 23 | 60 | 19 | 0 | 7 | 2 |
| Portland | | | | 68 | | | 54 | 1/89 | 76 | 8/88 | 25 | 31 | 42 | 12 | 14 | 0 |
| Ft. Lauderdale | | | | 64 | | | 62 | 8/88 | 71 | 3/88 | 14 | 48 | 23 | 0 | 2 | 0 |
| Los Angeles | | | | 63 | | | 63 | 10/89 | 77 | 4/88 | 22 | 47 | 16 | 5 | 12 | 3 |
| Cleveland | | | | 62 | | | 62 | 11/89 | 70 | 8/89 | 18 | 54 | 16 | ** | 0 | 2 |
| Houston | | | | 62 | | | 61 | 1/88 | 70 | 7/89 | 21 | 52 | 20 | ** | 4 | ** |
| St. Louis | | | | 62 | | | 56 | 10/88 | 69 | 4/89 | 22 | 49 | 19 | ** | 9 | 6 |
| Birmingham | | | | 60 | | | 60 | 11/89 | 75 | 7/88 | 14 | 52 | 12 | 0 | 4 | 0 |
| Dallas | | | | 60 | | | 57 | 12/88 | 72 | 6/88 | 18 | 47 | 22 | 2 | 4 | ** |
| San Jose | | | | 59 | | | 59 | 11/89 | 65 | 8/89 | 22 | 29 | 23 | 10 | 7 | 15 |
| Wash., D.C. | | | | 57 | | | 57 | 11/89 | 72 | 2/89 | 21 | 50 | 7 | ** | 12 | 8 |
| Kansas City | | | | 57 | | | 54 | 11/88 | 64 | 5/89 | 16 | 40 | 24 | ** | 2 | 4 |
| Phoenix | | | | 57 | | | 53 | 10/87 | 67 | 1/88 | 18 | 32 | 30 | 9 | 5 | ** |
| Indianapolis | | | | 57 | | | 50 | 2/89 | 62 | 9/89 | 19 | 25 | 42 | 0 | 3 | ** |
| Detroit | | | | 52 | | | 52 | 12/89 | 69 | 10/88 | 16 | 40 | 14 | 0 | 10 | 0 |
| San Antonio | | | | 49 | | | 49 | 12/89 | 63 | 8/88 | 21 | 23 | 27 | 1 | 13 | 0 |

Source: National Institute of Justice/Drug Use Forecasting Program

*Positive urinalysis, October through December 1989

**Less than 1%

The Assistant Attorney General, Office of Justice Programs, coordinates the activities of the following program Offices and Bureaus: National Institute of Justice, Bureau of Justice Statistics, Bureau of Justice Assistance, Office of Juvenile Justice and Delinquency Prevention, and Office for Victims of Crime.

Drug Use Forecasting (DUF) Research Update (continued)

barbiturates, and amphetamines. Positive results for amphetamines are confirmed by gas chromatography to eliminate positives that may be caused by over-the-counter drugs. For most drugs, the urine test can detect use in the prior 2 to 3 days. Exceptions are marijuana and PCP, which can sometimes be detected several weeks after use.

Fourth Quarter Results October to December, 1989

The percentage of male arrestees testing positive for a drug at the time of arrest ranged from 49 percent in San Antonio to 81 percent in Philadelphia (see page 2). The range of drug use for female arrestees was 43 percent in

San Antonio and Birmingham to 78 percent in Philadelphia (see below).

Multiple drug use was highest in San Diego, where 47 percent of the male arrestees tested positive for more than one drug. Multiple drug use was found in 38 percent of the female arrestees in San Diego and Washington, D.C.

Cocaine remains the most prevalent drug found in the majority of male and female arrestees. The exceptions were Portland, Indianapolis, and San Antonio, where male arrestees were more likely to test positive for marijuana than any other drug. For female arrestees, marijuana use in Indianapolis was greater than cocaine use. And in San Diego, females were most likely to test positive for amphetamines.

PCP use was found in male arrestees in Chicago (14 percent) and in male and female arrestees in San Jose (15 and 12 percent, respectively). Washington, D.C., continues to show declining rates of PCP use (males—8 percent, females—6 percent).

During the fourth quarter of 1989, 7 of the 20 cities with results for male arrestees showed the lowest percent of drug use since the initiation of data collection in those cities. Likewise, in 7 of the 17 cities testing female arrestees, the lowest overall drug use was found. No city recorded their highest drug use this quarter. (San Jose was not included in these figures, since they have just recently started collection of DUF data.)

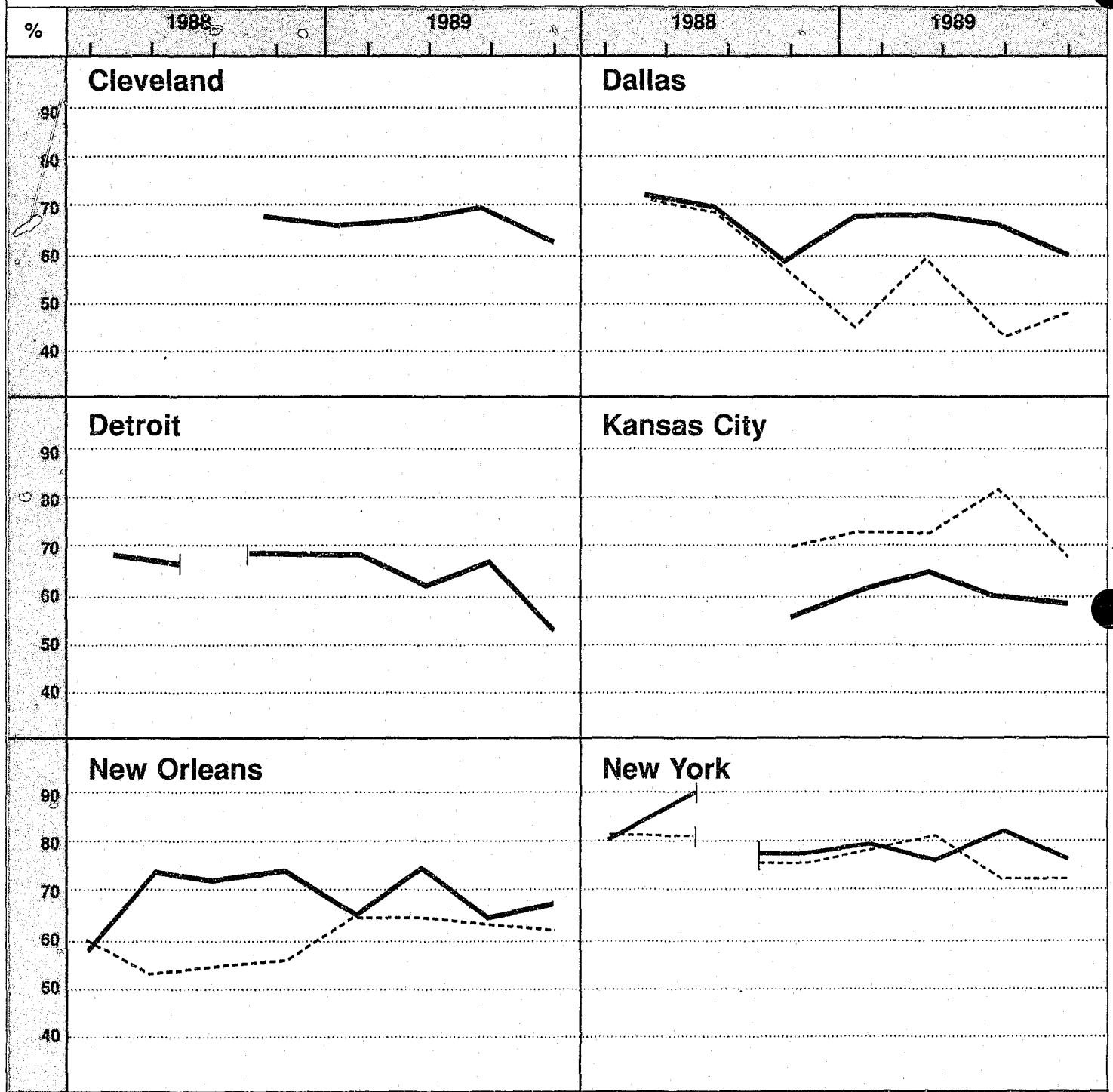
Drug Use by Female Arrestees*

| City | % POSITIVE ANY DRUG* | | | | | RANGE OF % POSITIVE | | % POSITIVE* | | | | | | | | |
|----------------|----------------------|----|----|----|----|---------------------|-----|-------------|------|-------|----------|---------|-----------|--------------|---------|-----|
| | 0 | 20 | 40 | 60 | 80 | 100 | LOW | DATE | HIGH | DATE | 2+ DRUGS | COCAINE | MARIJUANA | AMPHETAMINES | OPIATES | PCP |
| Females | | | | | | | | | | | | | | | | |
| Philadelphia | 78 | | | | | | 77 | 1/89 | 90 | 7/89 | 25 | 68 | 9 | 2 | 13 | ** |
| Los Angeles | 76 | | | | | | 72 | 7/88 | 80 | 7/89 | 32 | 63 | 10 | 5 | 19 | 7 |
| San Diego | 74 | | | | | | 74 | 11/89 | 87 | 12/87 | 38 | 31 | 30 | 39 | 13 | 1 |
| Wash., D.C. | 72 | | | | | | 70 | 2/89 | 88 | 6/89 | 38 | 67 | 5 | 0 | 28 | 6 |
| New York | 72 | | | | | | 72 | 7/89 | 83 | 2/88 | 28 | 64 | 7 | 0 | 20 | 2 |
| Kansas City | 68 | | | | | | 68 | 10/89 | 83 | 8/89 | 21 | 57 | 22 | 2 | 3 | 5 |
| Phoenix | 64 | | | | | | 54 | 7/88 | 78 | 3/89 | 30 | 51 | 26 | 8 | 10 | 2 |
| New Orleans | 62 | | | | | | 46 | 11/87 | 65 | 1/89 | 24 | 49 | 15 | 0 | 7 | 3 |
| St. Louis | 61 | | | | | | 45 | 11/88 | 75 | 4/89 | 18 | 46 | 18 | 0 | 2 | 7 |
| San Jose | 59 | | | | | | 59 | 12/89 | 59 | 9/89 | 22 | 26 | 15 | 13 | 10 | 12 |
| Portland | 57 | | | | | | 57 | 11/89 | 82 | 8/88 | 24 | 35 | 19 | 9 | 24 | 0 |
| Ft. Lauderdale | 56 | | | | | | 56 | 12/89 | 70 | 9/89 | 11 | 44 | 12 | 0 | 3 | 1 |
| Houston | 48 | | | | | | 48 | 10/89 | 64 | 4/89 | 13 | 42 | 8 | 2 | 6 | 0 |
| Dallas | 46 | | | | | | 42 | 9/89 | 71 | 6/88 | 14 | 36 | 10 | 1 | 8 | 0 |
| Indianapolis | 46 | | | | | | 42 | 9/89 | 47 | 2/89 | 15 | 18 | 25 | 0 | 8 | 0 |
| Birmingham | 43 | | | | | | 43 | 11/89 | 77 | 4/89 | 11 | 33 | 14 | 0 | 4 | 0 |
| San Antonio | 43 | | | | | | 43 | 12/89 | 55 | 9/89 | 15 | 22 | 10 | 1 | 16 | 0 |

Source: National Institute of Justice/Drug Use Forecasting Program

*Positive urinalysis, October through December 1989

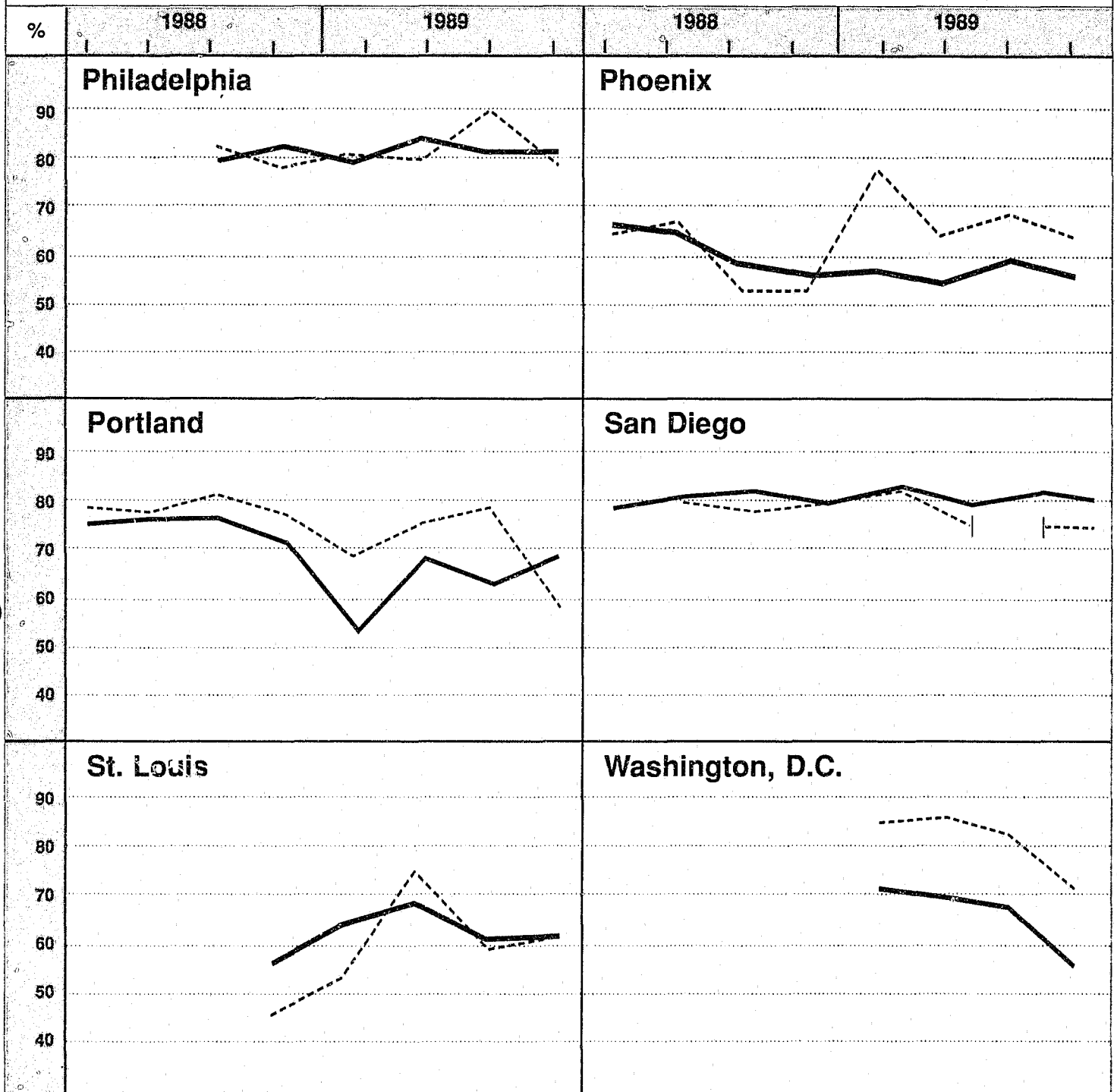
Drug Use Trends Among Arrestees*



— Males
 --- Females

Source: National Institute of Justice/Drug Use Forecasting Program
 *Percent positive by urinalysis for any drug

Drug Use Trends Among Arrestees* (continued)



— Males
 - - - Females

Source: National Institute of Justice/Drug Use Forecasting Program
 *Percent positive by urinalysis for any drug

Multiple Drug Use Among Cocaine Users

In 1988, cocaine was the most prevalent drug found in male and female arrestees in the majority of the Drug Use Forecasting (DUF) cities. In over half of the 19 sites, 49 percent or more of the male arrestees tested positive for cocaine at time of arrest. In 8 of the 14 cities testing female arrestees, 50 percent or more were positive for cocaine (see table to the right). We were interested in exploring the extent of drug use among cocaine users. That is, are those arrestees testing positive for cocaine likely to be using other drugs as well? We, therefore, looked at the percentage of those testing positive for cocaine who also tested positive for another drug.

Between 30 percent (Kansas City) and 82 percent (San Antonio) of the male cocaine users also tested positive for another drug. In 13 of the 19 cities, 50 percent or more of the male cocaine users were positive for other drugs. Furthermore, in Chicago, New Orleans, San Antonio, and San Diego, over 70 percent of the male arrestees who tested positive for cocaine had been using other drugs as well.

Female arrestees who tested positive for cocaine also showed a high percent of other drug use. In all cities, except Kansas City, 45 percent or more of the female cocaine users tested positive for some other drug. Only 21 percent of the female cocaine users in Kansas City tested positive for another drug.

These findings indicate that many of the arrestees who tested positive for cocaine were also using other drugs. Prior research has consistently shown that persons who test positive for multiple drugs at arrest are among the most active criminals.

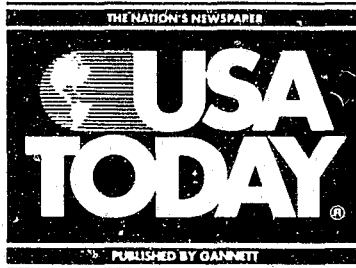
Drug Use Among Male Arrestees Who Tested Positive for Cocaine*

| Site | | Total N | % positive cocaine | % of arrestees testing positive for cocaine, who tested positive for another drug |
|----------------|---|---------|--------------------|---|
| Birmingham | M | 342 | 51 | 42 |
| | F | 52 | 38 | 45 |
| Chicago | M | 905 | 58 | 74 |
| | F | 104 | 70 | 63 |
| Cleveland | M | 212 | 52 | 39 |
| Dallas | M | 733 | 49 | 53 |
| | F | 308 | 48 | 50 |
| Detroit | M | 583 | 51 | 53 |
| | F | 90 | 71 | 50 |
| Ft. Lauderdale | M | 193 | 42 | 66 |
| Houston | M | 453 | 49 | 63 |
| Indianapolis | M | 130 | 15 | 50 |
| Kansas City | M | 128 | 41 | 30 |
| | F | 67 | 57 | 21 |
| Los Angeles | M | 1147 | 60 | 55 |
| | F | 613 | 61 | 53 |
| Miami | M | 182 | 64 | 34 |
| New Orleans | M | 860 | 51 | 71 |
| | F | 358 | 40 | 55 |
| New York | M | 792 | 74 | 59 |
| | F | 300 | 75 | 55 |
| Philadelphia | M | 585 | 72 | 49 |
| | F | 164 | 63 | 45 |
| Phoenix | M | 846 | 30 | 68 |
| | F | 400 | 36 | 60 |
| Portland | M | 982 | 40 | 66 |
| | F | 359 | 54 | 68 |
| San Antonio | M | 206 | 27 | 82 |
| | F | 108 | 26 | 79 |
| San Diego | M | 937 | 43 | 78 |
| | F | 211 | 50 | 57 |
| St. Louis | M | 246 | 38 | 41 |
| | F | 81 | 31 | 60 |

Source: National Institute of Justice/Drug Use Forecasting Program

*Data based on positive urinalysis, January through December 1988

"Ice" Use Among Arrestees*



U.S. drug users steer clear of 'ice'

By Sam Meddis
USA TODAY

After a year of warnings that "ice" would become the next major drug epidemic, authorities now say the threat has not materialized.

"The headline should be: 'The ice age doesn't come,'" says James Stewart, director of the National Institute of Justice, the research arm of the Justice Department.

Media warnings about the spread of "ice" — a smokable form of the stimulant methamphetamine — followed a 1988

National Institute on Drug Abuse study that said it "looms as a potential national drug crisis for the 1990s."

But, a new Justice Department study testing arrestees across the USA for drugs found — while "ice" remains popular in Hawaii and some California cities — there is no evidence that it is sweeping the nation.

Other barometers — including drug arrests, seizures by the Drug Enforcement Administration, and hospital reports — indicate that the highly addictive drug is "not going to get a big market," says Herbert

Kleber, deputy to drug czar William Bennett.

Mona Brown, spokeswoman for the drug abuse institute, says health officials have not seen a heightened use of "ice."

National Institute of Justice surveys of arrestees has been reliable predictors of past drug trends. It predicted the 1980s "crack" cocaine epidemic and the 1970s heroin epidemic in Washington, D.C.

Under the program, about 250 arrestees are given urinalysis tests in 23 cities every three months. Among drugs detected: amphetamine, of which

"ice" is a form.

But no significant increase in the use of "ice" was found between the fourth quarter of 1988 and the fourth quarter of 1989. In San Diego, for example, 32 percent of arrestees tested positive for amphetamine in 1988, compared with 33 percent in 1989. In Philadelphia, the percentage remained at 1 percent in both periods.

The long-lasting high from "ice," between eight and 16 hours, may not be attractive to many users.

Says Kleber: "Ice is not ideal for what an addict wants."

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*USA Today article based on DUF findings presented below.

Amphetamine Use Among Male Arrestees*

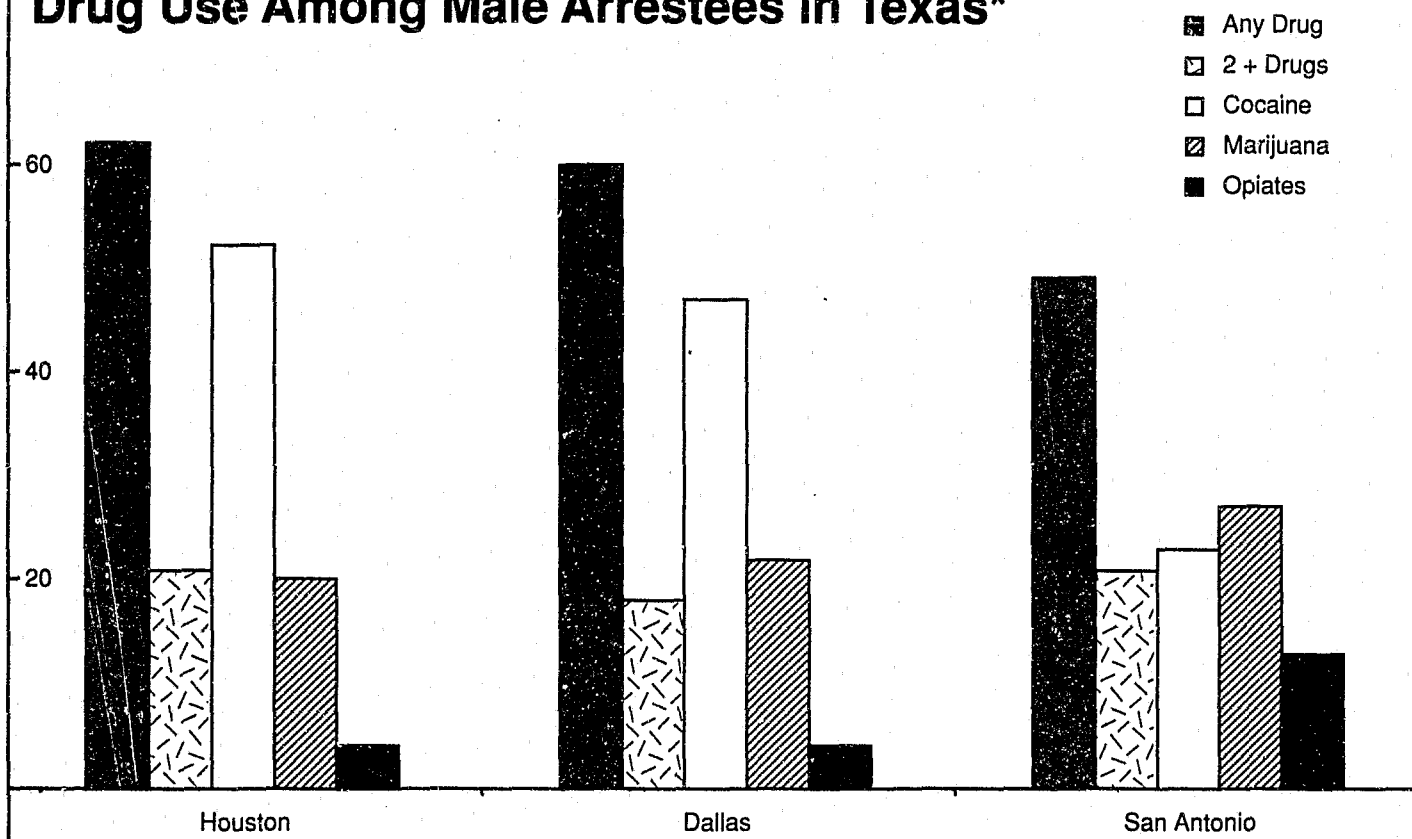
| | 4th Quarter '88 | 1st Quarter '89 | 2nd Quarter '89 | 3rd Quarter '89 | 4th Quarter '89 |
|--------------|-----------------|----------------------------|-----------------|-----------------|-----------------|
| San Diego | 32% | 35% | 36% | 37% | 33% |
| Phoenix | 12% | 5% | 8% | 9% | 9% |
| Portland | 9% | 7% | 9% | 10% | 12% |
| Dallas | 8% | 4% | 6% | 4% | 2% |
| San Antonio | NA | 6% | 4% | 3% | 1% |
| San Jose | | DUF began 3rd Quarter 1989 | | 11% | 10% |
| New York | 0% | ** | 0% | 0% | 0% |
| Philadelphia | 1% | ** | 1% | 1% | 1% |

Source: National Institute of Justice/Drug Use Forecasting

*Positive urinalysis

**Less than 1%

Drug Use Among Male Arrestees in Texas*



Source: National Institute of Justice/Drug Use Forecasting Program
 *Positive urinalysis, October through December 1989

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