

# SPECIAL REPORT

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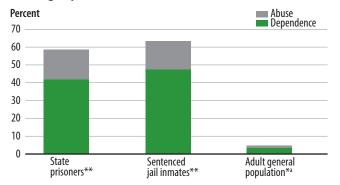
# Drug Use, Dependence, and Abuse Among State Prisoners and Jail Inmates, 2007-2009

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ore than half (58%) of state prisoners and two-thirds (63%) of sentenced jail inmates met the criteria for drug dependence or abuse, according to data collected through the 2007 and 2008-09 National Inmate Surveys (NIS) (figure 1). In comparison, approximately 5% of the total general population age 18 or older met the criteria for drug dependence or abuse. General population data come from the National Survey of Drug Use and Health (NSDUH) collected from 2007 to 2009 by Substance Abuse and Mental Health Services Administration. Drug dependence and abuse estimates in both the NIS and NSDUH data collections were based on criteria specified in the *Diagnostic and Statistical Manual of Mental Disorders*, Fourth Edition (DSM-IV).<sup>1,2</sup>

This report examines patterns of past drug use by different periods (i.e., ever used, at time of offense, month before arrest, and regularly used), demographics, and offense type. Drug data were grouped into eight categories for analysis: marijuana/hashish, cocaine/crack, heroin/opiates, depressants, stimulants, methamphetamine, hallucinogens,

# FIGURE 1 Inmates and adult general population who met the criteria for drug dependence or abuse, 2007–2009



Note: See *Methodology* for definition of dependence and abuse based on the *Diagnostic and Statistical Manual of Mental Disorders*, Fourth Edition. See appendix table 1 for standard errors.

\*\*Difference with the comparison group is significant at the 95% confidence level. 

<sup>a</sup>General population estimates have been standardized to the state prisoner population by sex, race, Hispanic origin, and age.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, 2007–2009.

# **HIGHLIGHTS**

- During 2007-09, an estimated 58% of state prisoners and 63% of sentenced jail inmates met the *Diagnostic* and Statistical Manual of Mental Disorders, Fourth Edition (DSM-IV) criteria for drug dependence or abuse.
- Among prisoners and jail inmates, prevalence estimates for those who met the criteria for dependence were two to three times higher than for abuse.
- The percentage of inmates who met the DSM-IV criteria was higher for those held for property offenses than those held for violent or other public order offenses.
- Lifetime drug use among the incarcerated populations was unchanged from 2002 to 2009.

- During 2007-09, prisoners (77%) and jail inmates (78%) reported having ever used marijuana/hashish, more than any other drug.
- During 2007-09, more females in prison (47%) or jail (60%) used drugs in the month before the current offense than males in prison (38%) or jail (54%).
- More non-Hispanic white than non-Hispanic black prisoners regularly used cocaine/crack, heroin/opiates, or methamphetamines.
- Among those who met the criteria for drug dependence or abuse, 26% of prisoners and 19% of jail inmates participated in a drug treatment program since admission to current facility.



<sup>&</sup>lt;sup>1</sup>Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition, text revision (2000). Washington. DC: American Psychiatric Association. <sup>2</sup>The fifth edition of the DSM (DSM-V) was published in May 2013. The DSM-IV was current at time of data collection.

<sup>\*</sup>Comparison group.

and inhalants.<sup>3</sup> Alcohol and nicotine were excluded from the analysis. Prevalence estimates are presented for inmates who met the DSM-IV criteria for drug dependence or abuse and for those who participated in a drug abuse treatment program. All NIS data were self-reported, and the analyses include state prisoners and sentenced local jail inmates.

To facilitate comparisons between the inmate and general population, NSDUH data on the general population were standardized twice to (1) match the prison population and (2) match the jail population by sex, race, Hispanic origin, and age. (See *Methodology*.) In addition, the general

population was divided into three groups that were based on self-reported involvement with the criminal justice system in the year prior to the interview: (1) no involvement, (2) under supervision (probation or parole), or (3) arrested. (See *Methodology*.)

This report combined data from the addendums of NIS-1 (2007) and NIS-2 (2008-09). (See *Methodology*.) The NIS-3 (2011-12) also collected drug use data, but the data were not used because of potential bias. For this reason, the 2007-09 data are the most recent data available on drug use and drug use disorders among inmates.

# Measurement of drug dependence and abuse

The National Inmate Survey (NIS) included questions to assess the percentage of inmates who met the *Diagnostic* and Statistical Manual of Mental Disorders, Fourth Edition (DSM-IV) criteria for drug dependence or abuse. Inmates who reported having ever used any drug were asked about their experiences and symptoms related to their drug use in the year prior to admission to the current facility. The DSM-IV criteria are guidelines designed to be used with a patient's history and sound clinical judgment in order to make a diagnosis. Data presented in this report are based on inmate self-reports and were not validated or confirmed by a trained clinician or clinical interview. (See Methodology.)

The DSM-IV defines drug dependence as a maladaptive pattern of drug use leading to clinically significant impairment or distress as manifested by three or more of the following occurring at any time in the same 12-month period:

- 1. tolerance
- 2. withdrawal symptoms or drug taken to relieve withdrawal
- 3. drug taken in larger amounts for longer periods than intended
- 4. persistent desire or unsuccessful attempts to cut down or control drug use
- 5. a lot of time is spent obtaining drugs, using them, or recovering from its effects
- 6. a reduction in or absence from social, occupational, or recreational activities
- 7. continued use despite adverse consequences.

Unlike the criteria for drug dependence, criteria for drug abuse do not include tolerance, withdrawal, or a pattern of compulsive use. Instead, the abuse criteria include only the harmful consequences of repeated use. Abuse is

defined in the DSM-IV as a maladaptive pattern of drug use leading to clinically significant impairment or distress, as manifested by one or more of the following, occurring at any time in the same 12-month period:

- 1. recurrent drug use resulting in a failure to fulfill major role obligations
- 2. recurrent drug use in which it is physically hazardous
- 3. recurrent drug-related legal problems
- continued drug use despite having persistent or recurrent drug-related social problems.

For any one drug, a diagnosis of dependence takes precedence over a diagnosis of abuse for the same drug. This means that a person who meets the dependence criteria for a particular drug cannot meet the abuse criteria for that same drug. The DSM-IV states that a diagnosis of drug dependence can be applied to 10 drug classes: alcohol, amphetamine or similarly acting sympathomimetics, cannabis, cocaine, hallucinogens, inhalants, nicotine, opioids, phencyclidine (PCP) or similarly acting arylcyclohexylamines, and sedatives. The category of drug abuse can apply to all of these drug classes, except nicotine. <sup>4</sup>

A diagnosis of drug dependence or abuse should be drug-specific (e.g., cocaine dependence or heroin abuse) and not generally made based on drug use in the past year as a whole. However, NIS data do not permit an analysis of dependence or abuse symptoms by individual drug type. As such, dependence and abuse data presented in this report are not drug-specific.

<sup>&</sup>lt;sup>3</sup>Depressants include barbiturates, tranquilizers, and Quaaludes. Stimulants include amphetamine and methamphetamine. Hallucinogens include LSD, PCP, and ecstasy.

<sup>&</sup>lt;sup>4</sup>The DSM-IV uses the term "classes," which is not the same as the schedule of controlled substances established through the 1970 Controlled Substance Act (P.L. 91-513).

# **Drug dependence and abuse**

# During 2007-09, more than half of state prisoners and two-thirds of sentenced jail inmates met the DSM-IV criteria for drug dependence or abuse

About 58% of state prisoners and 63% of sentenced jail inmates during 2007-09 met the DSM-IV criteria for drug dependence or abuse for any drug (table 1). Among state prisoners, 42% met the criteria for drug dependence and 17% met the criteria for abuse. The percentage of state prisoners who met the criteria for dependence was the same as those who did not meet the criteria for either dependence or abuse (42% each). Sentenced jail inmates were about three times as likely to have met the criteria for drug dependence (47%) than those who met the criteria for abuse (16%). For sentenced jail inmates, the percentage of those who met the criteria for dependence (47%) was higher than those who did not meet the criteria for either dependence or abuse (37%).

# Female inmates were more likely than male inmates to have met the DSM-IV criteria for drug dependence or abuse

Approximately 7 in 10 females in state prison (69%) or jail (72%) met the DSM-IV criteria for dependence or abuse, compared to about 6 in 10 males in prison (57%) or jail (62%) (table 2). A larger percentage of non-Hispanic white state prisoners (62%) and sentenced jail inmates (72%) met the criteria for dependence or abuse than non-Hispanic black inmates in prison (55%) or jail (57%). Hispanic inmates (58% in prison and 55% in jail) were also less likely than white inmates to have met the criteria. Approximately 26% of prisoners and 40% of sentenced jail inmates age 55 or older met the criteria for dependence or abuse. These numbers were less than the 64% of prisoners and 62% of sentenced jail inmates ages 18 to 24 who met the same criteria.

# Inmates incarcerated for a property offense were more likely to have met the criteria for dependence or abuse than inmates incarcerated for other offenses

About 54% of state prisoners and 61% of sentenced jail inmates incarcerated for violent offenses met the DSM-IV criteria for drug dependence or abuse. This was lower than the percentage of prisoners and jail inmates incarcerated for property (68% of prisoners and 72% of jail inmates) or drug (67% and 74%) offenses. Among prisoners who met the criteria for drug dependence or abuse, there was no difference in the percentage incarcerated for violent offenses (54%), DWI/DUI offenses (55%), or other public order offenses (55%). Among jail inmates, 45% of those incarcerated for DWI/DUI and 51% for public order offenses met the criteria.

TABLE 1
State prisoners and sentenced jail inmates who met the criteria for drug dependence or abuse, 2007–2009

Diagnostic criteria	State prisoners	Sentenced jail inmates	
Dependence or abuse	58.5%	63.3%	
Dependence	41.7	47.2	
Abuse	16.8	16.1	
No dependence or abuse*	41.5%	36.7%	
Total count	1,265,400	375,700	

Note: See *Methodology* for definition of dependence and abuse based on the *Diagnostic and Statistical Manual of Mental Disorders*, Fourth Edition. See appendix table 2 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

**TABLE 2**Drug dependence and abuse among state prisoners and sentenced jail inmates, by selected characteristics, 2007–2009

_	State prisoners		Sentenced jail inmates	
Characteristic	Count	Percent	Count	Percent
All inmates	716,900	58.5%	233,000	63.3%
Sex				
Male*	656,600	56.9%	195,600	61.8%
Female	60,300	69.2**	37,400	72.3**
Race/Hispanic origina				
White*	265,600	62.3%	105,300	72.1%
Black	245,900	54.6**	69,400	57.1**
Hispanic	128,200	57.6**	35,900	55.0**
Two or more races	51,800	61.2	16,000	68.3
Other <sup>b</sup>	20,600	58.9	5,300	56.5**
Age				
18-24*	119,900	64.2%	61,500	61.9%
25-34	241,400	60.3**	78,000	64.1
35-44	206,900	61.3	59,300	66.4**
45-54	128,400	57.3**	30,200	63.4
55 or older	20,200	25.8**	4,100	39.5**
Most serious offense				
Violent*	338,300	53.5%	46,200	60.7%
Property	158,900	68.2**	66,100	72.1**
Drug	147,000	66.9**	67,700	73.9**
DWI/DUI	12,800	55.2	12,100	45.1**
Other public order <sup>c</sup>	22,300	54.8	24,600	51.4**

Note: See *Methodology* for definition and criteria for drug dependence and abuse based on the *Diagnostic and Statistical Manual of Mental Disorders*, Fourth Edition. See appendix table 3 for standard errors.

<sup>\*</sup>Includes inmates who did not report ever using drugs.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level.

<sup>&</sup>lt;sup>a</sup>Excludes persons of Hispanic origin, unless specified.

<sup>&</sup>lt;sup>b</sup>Includes American Indian and Alaska Natives; Asian, Native Hawaiian, and Other Pacific Islanders; and persons of two or more races.

cExcludes DWI/DUI.

# State prisoners were 12 times more likely than adults in the general population to have met the criteria for dependence or abuse

The NSDUH general population data included adults age 18 or older and were standardized to match the prison population by sex, race, Hispanic origin, and age. The general population was divided into three groups based on their self-reported involvement in the criminal justice system during the year prior to the interview: (1) no involvement, (2) under supervision (probation or parole) or (3) arrested. A total general population was also included, which combined all three groups into one category.

The percentage of state prisoners who met the DSM-IV criteria for drug dependence or abuse (58%) was 12 times higher than adults in the total general population (5%) and 14 times higher than the general population (4%) that was not criminally involved with the justice system (table 3). Adults in the general population who had been on probation or parole (12%) or who had been arrested in the past 12 months (19%) were more likely to have met the criteria for drug dependence or abuse than their noncriminally involved counterparts (4%).

Similar to the pattern observed among prisoners, a larger percentage of people in each general population group met the criteria for drug dependence than abuse. Among persons not involved in the criminal justice system, 2% met the criteria for drug dependence and 1% met the criteria for drug abuse. A larger percentage of adults on probation or parole met the criteria for drug dependence (10%) than abuse (3%). This pattern was similar for adults who were arrested: 15% met the criteria for drug dependence compared to 5% for abuse.

# Jail inmates were more likely to have met the criteria for dependence or abuse than those in the general population who had been arrested

Approximately two-thirds (63%) of the sentenced jail population met the DSM-IV criteria for either drug dependence or abuse (table 4). This was more than

**TABLE 4**Drug dependence and abuse among sentenced jail inmates and general population groups, by criminal justice involvement, 2007–2009

		Adults in the general population				
Diagnostic criteria	Sentenced jail inmates*			Under supervision <sup>b,c</sup> Arreste		
Dependence or abuse	63.3%	5.7%**	4.4%**	14.3%**	20.9%**	
Dependence	47.2	3.9**	2.9**	11.2**	15.8**	
Abuse	16.1	1.8**	1.5**	3.2**	5.1**	
No dependence or abuse <sup>e</sup>	36.7%	94.3%**	95.6%**	85.7%**	79.1%**	

Note: General population estimates have been standardized to the jail inmate population based on sex, race, Hispanic origin, and age. See *Methodology* for definition of dependence and abuse based on the *Diagnostic and Statistical Manual of Mental Disorders*, Fourth Edition. See appendix table 5 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health (NSDUH), 2007–2009.

TABLE 3

Drug dependence and abuse among state prisoners and general population groups, by criminal justice system involvement, 2007–2009

Diagnostic criteria		Adults in general population			
	State prisoners*	Totala	Noncriminal <sup>a,b</sup>	Under supervision <sup>b,c</sup>	Arrested <sup>c,d</sup>
Dependence or abuse	58.5%	4.8%**	3.6%**	12.3%**	19.2%**
Dependence	41.7	3.3**	2.4**	9.7**	14.7**
Abuse	16.8	1.5**	1.2**	2.6**	4.5**
No dependence or abusee	41.5%	95.2%**	96.4%**	87.7%**	80.8%**

Note: See Methodology for definition of dependence and abuse based on the Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition. See appendix table 4 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health (NSDUH), 2007–2009.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level.

<sup>&</sup>lt;sup>a</sup>Includes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had not been arrested or on probation or parole in the past 12 months.

<sup>&</sup>lt;sup>b</sup>Includes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had been on probation or parole in the past 12 months.

<sup>&</sup>lt;sup>c</sup>A small percentage of respondents said they had been on probation or parole and had been arrested in the past 12 months. See *Methodology*.

 $<sup>^{\</sup>rm d}$  Includes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had been arrested in the past 12 months.

<sup>&</sup>lt;sup>e</sup>Includes inmates who did not report ever using drugs.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level.

<sup>&</sup>lt;sup>a</sup>General population estimates have been standardized to the state prisoner population based on sex, race, Hispanic origin, and age.

blincludes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had not been arrested or on probation or parole in the past 12 months.

<sup>&</sup>lt;sup>c</sup>A small percentage of respondents said they had been on probation or parole and had been arrested in the past 12 months. See *Methodology*.

<sup>&</sup>lt;sup>d</sup>Includes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had been arrested in the past 12 months.

eIncludes inmates who did not report ever using drugs.

10 times the percentage of adults in the standardized general population (6%), and almost 15 times the percentage of the noncriminally involved standardized general population who met the criteria for drug dependence or abuse (4%). The percentage of sentenced jail inmates who met the criteria for drug dependence (47%) was about three times larger than those who met the criteria for drug abuse (16%). This pattern was the same for the general population on probation or parole (11% for drug dependence and 3% for abuse) and for those who were arrested in the past 12 months (16% drug dependence and 5% for abuse).

# Trends in lifetime and regular use of drugs by state prisoners and jail inmates

# Overall drug use reported by inmates was unchanged from past surveys

Lifetime use and regular use of drugs by state prisoners and sentenced jail inmates remained relatively stable. During 2007-09, an estimated 81% of persons in prisons and 84% of those in jail reported ever using any drug in their lifetime (table 5). These percentages were virtually unchanged from the 83% of prisoners (based on BJS's 2004 Survey of Inmates in State Correctional Facilities) and 85% of sentenced jail inmates (based on BJS's 2002 Survey of Inmates in Local Jails) reported ever using drugs.

Since the 2002 and 2004 surveys, regular use of drugs slightly increased among prisoners and jail inmates during 2007-09. Regular use was defined as having ever used any drug once a week or more for at least a month. In 2004, 69% of prisoners regularly used drugs and in 2002, 71% of jail inmates regularly used drugs. These numbers were similar to 72% of prisoners and 75% of jail inmates who regularly used drugs during 2007-09.

# More state prisoners and jail inmates reported they had ever used marijuana/hashish than any other drug

Among state prisoners, marijuana/hashish was the most often reported drug type (77%) during 2007-09, followed by cocaine/crack (47%). In 2004, the percentage of prisoners who had ever used marijuana/hashish (78%) and cocaine/crack (47%) were nearly the same.

Nearly 42% of prisoners during 2007-09 said they had ever used hallucinogens, which was up from the 33% who reported its use in 2004. Likewise, the percentage of state prisoners who had ever used depressants increased from 21% in 2004 to 30% during 2007-09. Regular use of depressants among state prisoners almost doubled between 2004 and 2007-09, increasing from 10% to 18%. Regular use of hallucinogens prior to incarceration also increased, from 13% in 2004 to 22% during 2007-09.

During 2007-09, the percentages of sentenced jail inmates who had ever used or regularly used drugs were similar to prisoners. Marijuana/hashish (78%) and cocaine/crack (52%) were the most frequently

TABLE 5
State prisoners and sentenced jail inmates who had ever used or regularly used drugs, by drug type, 2002, 2004, and 2007–2009

	State prisoners		Sentenced jail inmates	
Type of drug	2004*	2007-2009	2002*	2007-2009
Ever used				
Any drug <sup>a</sup>	83.2%	81.4%**	84.5%	83.5%
Marijuana/hashish	77.6	76.6	77.7	78.1
Cocaine/crack	46.8	47.3	50.5	51.5
Heroin/opiates	23.2	26.4**	21.2	28.2**
Depressants <sup>b</sup>	21.3	30.4**	22.1	34.1**
Stimulants <sup>c</sup>	28.5	32.4**	28.9	34.1**
Methamphetamine	23.4	26.1	23.9	28.7**
Hallucinogens <sup>d</sup>	32.6	41.7**	34.0	46.2**
Inhalants	13.6	16.9**	13.2	16.9**
Regularly used <sup>e</sup>				
Any drug <sup>a</sup>	69.2%	71.6%**	70.5%	74.9%**
Marijuana/hashish	59.0	62.7**	59.3	64.4**
Cocaine/crack	30.0	34.2**	32.4	38.5**
Heroin/opiates	13.0	16.6**	12.2	18.9**
Depressants <sup>b</sup>	9.9	18.3**	11.0	20.8**
Stimulants <sup>c</sup>	17.9	23.4**	18.1	23.9**
Methamphetamine	14.9	19.2**	14.8	19.8**
Hallucinogens <sup>d</sup>	13.3	21.7**	13.9	22.5**
Inhalants	4.5	6.0**	4.3	5.0
Total count	1,226,200	1,265,400	444,500	375,700

Note: Detail sums to more than total because person may have used more than one type of drug. See appendix table 6 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09; Survey of Inmates in Local Jails, 2002; and Survey of Inmates in State Correctional Facilities, 2004.

used drugs that jail inmates had ever used. This pattern did not change from 2002. Between 2002 and 2007-09, a larger percentage of jail inmates reported ever using heroin/opiates (21% in 2002 and 28% during 2007-09), depressants (22% and 34%), stimulants (29% and 34%), and hallucinogens (34% and 46%).

An estimated 75% of sentenced jail inmates reported regular use of any drug during 2007-09, compared to 70% in 2002. The percentage of jail inmates who regularly used a drug increased across all but one drug type from 2002 to 2007-09. About 39% of jail inmates during 2007-09 reported regular use of cocaine/crack, compared to 32% of those in 2002. Regular use of depressants during 2007-09 by jail inmates (21%) was twice that of the percentage who reported the same in 2002 (11%). The percentage of jail inmates who reported regular use of heroin/opiates increased from 12% in 2002 to 19% during 2007-09, stimulants increased from 18% to 24%, and hallucinogens from 14% to 23%.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level.

<sup>&</sup>lt;sup>a</sup>Includes other unspecified drugs.

<sup>&</sup>lt;sup>b</sup>Includes barbiturates, tranquilizers, and Quaaludes.

<sup>&</sup>lt;sup>c</sup>Includes amphetamines and methamphetamine.

<sup>&</sup>lt;sup>d</sup>Includes LSD, PCP, and ecstasy.

<sup>&</sup>lt;sup>e</sup>Used drugs at least once a week for at least a month.

# Patterns of drug use at time of the offense

# 4 in 10 prisoners and jail inmates used drugs at the time of the offense for which they were currently incarcerated

During 2007-09, about 4 in 10 state prisoners (42%) and sentenced jail inmates (37%) said they used drugs at the time of the offense for which they were currently incarcerated (table 6). Among prisoners, 22% reported marijuana/hashish use at time of the offense, 16% reported cocaine/crack use, 11% reported stimulant use, and 7% reported heroin/opiate use. Among sentenced jail inmates, 19% reported using marijuana/hashish at time of the offense, 13% reported cocaine/crack use, and 8% reported stimulant and heroin/opiate use.

# About 4 in 10 state prisoners and sentenced jail inmates who were incarcerated for property offenses committed the crime to get money for drugs or to obtain drugs

About 21% each of state prisoners and sentenced jail inmates said their most serious current offense was committed to get money for drugs or to obtain drugs (table 7). A larger percentage of prisoners (39%) and jail inmates (37%) held for property offenses said they committed the crime for

TABLE 6
State prisoners and sentenced jail inmates who used drugs at time of offense, by drug type, 2007–2009

Type of drug	State prisoners	Sentenced jail inmates
Any drug <sup>a</sup>	42.0%	37.2%
Marijuana/hashish	22.4	18.9
Cocaine/crack	15.8	13.3
Heroin/opiates	6.8	7.9
Depressants <sup>b</sup>	5.0	5.9
Stimulants <sup>c</sup>	10.8	8.0
Methamphetamine	9.7	7.3
Hallucinogens <sup>d</sup>	4.9	4.2
Inhalants	0.5	0.5

Note: Detail sums to more than total because persons may have used more than one type of drug. See appendix table 7 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

TABLE 7
State prisoners and sentenced jail inmates who committed offense to get money for drugs, by type of offense, 2007–2009

Most serious offense	State prisoners	Sentenced jail inmates
All inmates	21.3%	20.8%
Violent	14.6	14.0
Property	39.4	36.7
Drug	29.9	28.8
DWI/DUI	1.0	1.9
Other public order*	8.7	7.5

Note: See appendix table 8 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

money for drugs or drugs than other offense types. Nearly a third of drug offenders (30% of state prisoners and 29% of jail inmates) said they committed the offense to get drugs or money for drugs. Approximately 1 in 6 state prisoners (15%) and jail inmates (14%) who committed violent offenses said they did so to get money for drugs or to obtain drugs.

# Drug use by demographics and offense

Among state prisoners, females, whites, and those age 54 or younger were more likely than other persons to have used drugs in the month before the offense

About 39% of state prisoners during 2007-09 used drugs in the month before the offense, and 42% used drugs at the time of offense (table 8). For both 2004 and 2007-09, reference periods, female prisoners were more likely to have used drugs than their male counterparts. An estimated 47% of females used drugs in the month before and 49% at the time of the offense, compared to 38% of males who used drugs in the month before and 41% at time of the offense.

TABLE 8

Drug use in month before offense and at the time of offense among state prisoners and sentenced jail inmates, by selected characteristics, 2007–2009

	State prisoners		Sentenced jail inmates		
Chavastavistis	Month before		Month before		
Characteristic	offense	of offense	offense	of offense	
All inmates	39.3%	42.0%	54.5%	37.2%	
Sex					
Male*	38.2%	40.9%	53.7%	35.8%**	
Female	46.8**	49.1**	59.7	45.5**	
Race/Hispanic origin <sup>a</sup>					
White*	42.5%	47.9%	58.8%	43.7%	
Black	36.5**	37.2**	55.2**	33.5**	
Hispanic	37.5**	39.1**	45.2**	31.0**	
Two or more races	41.1	45.2	57.2	38.3	
Other <sup>b</sup>	41.1	41.2	43.6**	26.7**	
Age					
18-24*	46.8%	44.8%	61.2%	35.8%	
25-34	41.8**	43.5	54.8**	40.6**	
35-44	39.3**	44.2	52.4**	40.0**	
45-54	36.4**	41.6	49.1**	30.2**	
55 or older	15.6**	18.6**	29.2**	17.5**	
Most serious offense					
Violent*	34.4%	39.9%	53.6%	37.2%	
Property	47.0**	50.1**	63.4**	46.4**	
Drug	47.1**	50.2**	66.6**	50.6**	
DWI/DUI	33.5	27.5**	24.2**	16.8**	
Other public order <sup>c</sup>	43.9**	29.4**	43.3**	19.3**	

Note: See appendix table 9 for standard errors.

<sup>&</sup>lt;sup>a</sup>Includes other unspecified drugs.

<sup>&</sup>lt;sup>b</sup>Includes barbiturates, tranquilizers, and Quaaludes.

<sup>&</sup>lt;sup>c</sup>Includes amphetamines and methamphetamine.

<sup>&</sup>lt;sup>d</sup>Includes LSD, PCP, and ecstasy.

<sup>\*</sup>Excludes DWI/DUI.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level.

<sup>&</sup>lt;sup>a</sup>Excludes persons of Hispanic origin, unless specified.

<sup>&</sup>lt;sup>b</sup>Includes American Indian and Alaska Natives; Asian, Native Hawaiian, and Other Pacific Islanders; and persons of two or more races.

cExcludes DWI/DUI

Black and Hispanic prisoners were less likely than white prisoners to report drug use in the month before or at the time of the offense. The percentage of prisoners who reported drug use in the month before the offense declined with age. About 47% of prisoners ages 18 to 24 used drugs in the month before the offense, compared to 36% of those ages 45 to 54 and 16% of those 55 or older. Drug use at the time of the offense varied less across age groups, with about 42% to 45% of prisoners age 54 or younger reporting use. However, prisoners age 55 or older were significantly less likely to have used drugs at time of the offense (19%) than prisoners of other age groups.

# State prisoners incarcerated for property or drug offenses were more likely to have used drugs than those who committed violent offenses

During 2007-09, state prisoners whose most serious current offense was a violent offense were less likely to have used drugs in the month before the offense (34%) than those incarcerated for a property crime (47%), drug offense (47%), or public order offense (44%).

Four in 10 (40%) prisoners incarcerated for violent crimes said they used a drug at time of the offense. This was lower than the percentage of prisoners incarcerated for a property offense (50%) or a drug offense (50%) but more than the percentage incarcerated for a DWI/DUI (28%) or other public order offense (29%).

# Female jail inmates were more likely than male inmates to have used drugs in the month before the offense or at the time of the offense

More than half (54%) of sentenced jail inmates during 2007-09 used a drug in the month before the offense. About 37% used a drug at the time of the offense. Much like the demographic profile of state prisoners, a larger percentage of females than males in jail reported drug use in the month before the offense or at the time of the offense. Sentenced jail inmates who were black, Hispanic, or of other races were less likely than white inmates to report drug use in the month before or at the time of the offense. About 61% of sentenced jail inmates ages 18 to 24 used drugs in the month before their offense, and this percentage decreased among older groups. In comparison, fewer jail inmates ages 18 to 24 used drugs at the time of the offense (36%) than those ages 25 to 34 (41%) and 35 to 44 (40%).

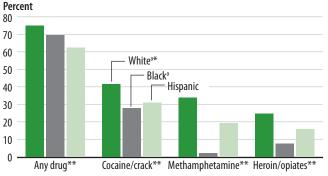
# More than half of sentenced jail inmates incarcerated for a drug crime used drugs at the time of the offense

When assessed by offense type, sentenced jail inmates had a similar pattern of drug use in the month before the offense. About 2 in 3 jail inmates incarcerated for property offenses (63%) or drug offenses (67%) used drugs in the month before the offense. These percentages were higher than that of jail inmates (54%) who were incarcerated for a violent offense and used drugs in the month before arrest. Jail inmates incarcerated for DWI/DUI (24%) or other public order offenses (43%) were the least likely to have used drugs in the month before the offense. A smaller percentage of inmates incarcerated for violent offenses (37%) than for property (46%) or drug (51%) offenses used drugs at the time of the offense.

# Regular use of cocaine/crack, methamphetamine, or heroin/opiates by demographics

Patterns of regular drug use differed by race and Hispanic origin. White inmates in prison or jail were more likely than black or Hispanic inmates to have regularly used any drug. Black prisoners were the least likely to have regularly used cocaine/crack (28%), compared to whites (42%) and Hispanics (31%) (figure 2). Among jail inmates, 31% of blacks, 47% of whites, and 29% of Hispanics regularly used cocaine/crack (figure 3). Black inmates were the least likely among prisoners and jail inmates to report regular use of methamphetamine or heroin/opiates.

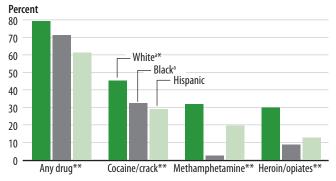
FIGURE 2
Regular drug use among state prisoners, by race and Hispanic origin, 2007–2009



Note: Regular drug use was defined as using drugs at least once a week for at least a month. See appendix table 10 for estimates and standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

FIGURE 3
Regular drug use among sentenced jail inmates, by race and Hispanic origin, 2007–2009



Note: Regular drug use was defined as using drugs at least once a week for at least a month. See appendix table 11 for estimates and standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008-09.

### Cocaine/crack

During 2007-09, regular use of cocaine/crack was highest among females, whites, inmates ages 35 to 44, and property offenders

Almost half of female state prisoners (49%) and sentenced jail inmates (48%) regularly used cocaine/crack (table 9). Among male inmates, 31% of those in prison and 36% of those in jail regularly used cocaine/crack.

Regular use of cocaine/crack was highest among inmates ages 45 to 54 (42% of state prisoners and 52% of jail inmates). A quarter of prisoners (26%) and jail inmates (24%) ages 18 to 24 said they regularly used cocaine/crack.

A larger percentage of state prisoners incarcerated for property (45%) or drug (37%) offenses than violent offenses (29%) said they regularly used cocaine/crack. Among sentenced jail inmates, 48% of those incarcerated for property offenses, 43% for drug offenses, and 34% for violent offenses reported regular use of cocaine/crack during 2002-09.

TABLE 9
Regular cocaine/crack use among state prisoners and sentenced jail inmates, by selected characteristics, 2007–2009

Characteristic	State prisoners	Sentenced jail inmates
Sex	•	
Male*	31.4%	35.7%
Female	48.9**	48.2**
Race/Hispanic origin <sup>a</sup>		
White*	41.7%	47.2%
Black	28.0**	31.0**
Hispanic	31.1**	28.5**
Other <sup>b</sup>	31.8**	40.2**
Age		
18–24*	25.8%	24.1%
25–34	28.4	34.7
35–44	41.4**	48.5**
45–54	42.2**	52.3**
55 or older	17.4**	36.1**
Most serious offense		
Violent*	28.6%	33.7%
Property	45.2**	47.5**
Drug	37.4**	43.2**
DWI/DUI	31.4	26.9
Other public order <sup>c</sup>	27.0	29.8

Note: Regular drug use was defined as using drugs at least once a week for at least a month. See appendix table 12 for standard errors.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level. <sup>a</sup>Excludes persons of Hispanic origin.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level.

<sup>a</sup>Excludes persons of Hispanic origin.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level.

<sup>&</sup>lt;sup>a</sup>Excludes persons of Hispanic origin, unless specified.

<sup>&</sup>lt;sup>b</sup>Includes American Indian and Alaska Natives; Asian, Native Hawaiian, and Other Pacific Islanders; and persons of two or more races.

cExcludes DWI/DUI.

## Methamphetamine

# Female inmates were more likely than male inmates to have regularly used methamphetamine during 2007-09

Among both prisoners and jail inmates, a larger percentage of females (31% for prison and 26% for jail) than males (17% each) reported regular use of methamphetamine (table 10).

About 19% of prisoners in each age group age 54 or younger reported regular use of methamphetamine, compared to 8% of prisoners age 55 or older. Jail inmates ages 25 to 44 (21%) were more likely to have regularly used methamphetamine than those ages 18 to 24 (14%).

A higher percentage of white (34%) than black (2%) prisoners regularly used methamphetamine. Among jail inmates, 31% of whites and 3% of blacks regularly used methamphetamine. Among Hispanics in state prison or jail, about 19% of each population regularly used methamphetamine.

More state prisoners incarcerated for property offenses (28%) than violent offenses (14%) reported regular use of methamphetamine. Among sentenced jail inmates, a larger percentage of those incarcerated for property (24%) or drug (23%) offenses than violent offenses (16%) reported regular use of methamphetamine.

**TABLE 10**Regular use of methamphetamine among state prisoners and sentenced jail inmates, by selected characteristics, 2007–2009

•	•	-
Characteristic	State prisoners	Sentenced jail inmates
Sex		
Male*	16.8%	17.2%
Female	31.0**	25.8**
Race/Hispanic origin <sup>a</sup>		
White*	34.0%	31.3%
Black	2.1**	2.9**
Hispanic	19.4**	19.8**
Other <sup>b</sup>	24.3**	25.4**
Age		
18-24*	17.8%	14.1%
25-34	19.4	21.0
35-44	19.8	21.3
45-54	19.2	16.5
55 or older	8.2**	12.4**
Most serious offense		
Violent*	14.0%	15.9%
Property	27.9**	23.6**
Drug	21.9**	23.1**
DWI/DUI	15.6	13.3
Other public order <sup>c</sup>	17.6	14.1

Note: See appendix table 13 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008-09.

## Heroin/opiates

# Regular use of heroin/opiates was lowest among black prisoners and jail inmates during 2007-09

About 1 in 4 females in state prison (22%) or jail (25%) reported regular use of heroin/opiates, compared to about 1 in 6 males in prison (15%) or jail (17%) (table 11).

Twenty-two percent of both prisoners and jail inmates ages 45 to 54 reported they regularly used heroin/opiates. These percentages were higher than those ages 18 to 24 who said they regularly used heroin/opiates among prisoners (12%) and jail inmates (14%).

Three times more whites (25%) than blacks (8%) in prison regularly used heroin/opiates. Almost four times more whites (30%) than blacks (8%) in jail regularly used heroin/opiates. Hispanics in prison (16%) and jail (12%) were also less likely than white inmates to have regularly used heroin/opiates.

Prisoners (25%) and jail inmates (24%) incarcerated for property offenses had higher rates of regular use of heroin/opiates than those incarcerated for violent offenses (13% for prisoners and 15% for jail inmates). Seventeen percent of prisoners and 23% of jail inmates incarcerated for drug offenses said they regularly used heroin/opiates.

**TABLE 11**Regular use of heroin/opiates among state prisoners and sentenced jail inmates, by selected characteristics, 2007–2009

Characteristic	State prisoners	Sentenced jail inmates
Sex	-	
Male*	15.2%	16.8%
Female	22.3**	24.7**
Race/Hispanic origin <sup>a</sup>		
White*	24.7%	29.8%
Black	7.6**	7.9**
Hispanic	15.9**	12.1**
Other <sup>b</sup>	17.5**	19.7**
Age		
18-24*	12.0%	13.7%
25-34	14.5**	18.8**
35-44	16.8**	18.7**
45-54	21.5**	21.7**
55 or older	13.7	19.9
Most serious offense		
Violent*	13.0%	14.9%
Property	24.6**	23.9**
Drug	16.6**	22.8**
DWI/DUI	18.4	10.1
Other public order <sup>c</sup>	11.0	13.1

Note: See appendix table 14 for standard errors.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level. aExcludes persons of Hispanic origin, unless specified.

<sup>&</sup>lt;sup>b</sup>Includes American Indian and Alaska Natives; Asian, Native Hawaiian, and Other Pacific Islanders; and persons of two or more races.

cExcludes DWI/DUI.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level.

<sup>&</sup>lt;sup>a</sup>Excludes persons of Hispanic origin, unless specified.

<sup>&</sup>lt;sup>b</sup>Includes American Indian and Alaska Natives; Asian, Native Hawaiian, and Other Pacific Islanders; and persons of two or more races.

<sup>&</sup>lt;sup>c</sup>Excludes DWI/DUI.

# Estimates of lifetime and regular use of drugs among adults in the general population

Little to no change occurred in the percentage of adults in the general population who had ever used or regularly used drugs between 2002-04 and 2007-09

During the 3-year aggregate period from 2002 to 2004, about half (48%) of adults in the general population said they had ever used drugs (figure 4). Nearly the same percentage of adults (49%) in the general population reported ever using any drug during 2007-09. Among adults in the general population who had ever used drugs, there was little to no difference by drug type between reference periods. In both periods, about 44% of adults in the general population said they had ever used marijuana/hashish, compared to 16% who ever used cocaine/crack, 16% who ever used hallucinogens, and 15% who ever used heroin/opiates. Methamphetamine was the least

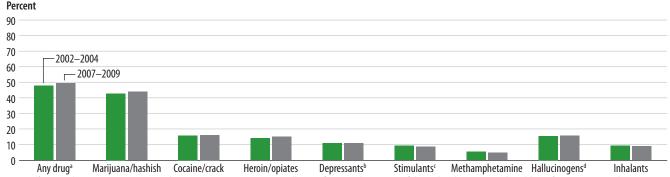
reported, with 5% of adults in the general population who said they had ever used the drug.

There was virtually no variation observed between 2002-04 and 2007-09 in the percentage of adults in the general population who reported regular use of drugs (figure 5). For the adult general population, regular use was defined as use of any drug at least once in the past month prior to the interview. During 2007-09, fewer than 1 in 10 (8%) adults in the general population reported regular use of drugs.

# Month-before drug use among prisoners was three times higher than the general population

Drug use for the month-before reference period was defined differently for the general population and inmates. For the general population, it was the percentage who reported drug use in the month before the interview. For both prisoners and jail inmates, it was the percentage who said they used drugs in the month before their arrest.

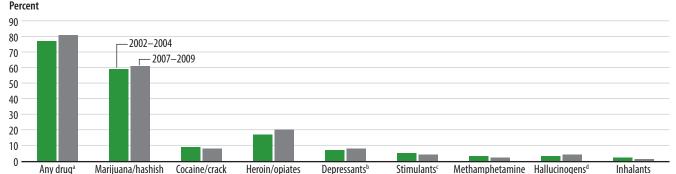
FIGURE 4
Drug use in adult general population who had ever used drugs, 2002–2004 and 2007–2009



Note: Differences between 2002–2004 and 2007–2009 were not statistically significant at the 95% confidence level. See appendix table 15 for estimates and standard errors

Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, 2002–2004 and 2007–2009.

# FIGURE 5 Drug use in adult general population who regularly used drugs, 2002–2004 and 2007–2009



Note: Differences between 2002–2004 and 2007–2009 were not statistically significant at the 95% confidence level. See appendix table 16 for estimates and standard errors.

Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, 2002–2004 and 2007–2009.

<sup>&</sup>lt;sup>a</sup>Includes other unspecified drugs.

<sup>&</sup>lt;sup>b</sup>Includes barbiturates, tranquilizers, and Quaaludes.

<sup>&</sup>lt;sup>c</sup>Includes amphetamines and methamphetamine.

dIncludes LSD, PCP, and ecstasy.

<sup>&</sup>lt;sup>a</sup>Includes other unspecified drugs.

<sup>&</sup>lt;sup>b</sup>Includes barbiturates, tranquilizers, and Quaaludes.

<sup>&</sup>lt;sup>c</sup>Includes amphetamines and methamphetamine.

dIncludes LSD, PCP, and ecstasy.

During 2007-09, the percentage of prisoners (39%) who reported drug use in the month before arrest was more than three times higher than the standardized adult general population (12%) and five times higher than the unstandardized adult general population (8%) (table 12). Twenty-four percent of the general population on probation or parole and 32% of those who were arrested in the past year reported drug use in the past month.

For almost every drug type, prisoners were significantly more likely than adults in the general population to have used it in the month before the arrest or interview. However, the exceptions were adults in the general population who were arrested in the past year. They were as likely as prisoners to have used marijuana/hashish (27%) and heroin/opiates (7%) in the month before the interview.

# Among prisoners and adults in the general population, marijuana/hashish was reported as the most used drug in the month before the arrest or interview

State prisoners (28%) and adults in the general population (10%) reported more past month use of marijuana/hashish than any other drug. However, prisoners reported cocaine/crack (15%) as the second most used drug in the month before. Adults in the general population reported heroin/opiates (2%) as the second most reported drug used in the month before.

The use of stimulants in the month before was higher among prisoners (10%) than adults in the general population (0.4%) and those with no past year criminal justice involvement (0.4%). Stimulant use was also higher among prisoners than among adults in the general population on probation or parole (2%) and those who had been arrested (2%).

**TABLE 12**Drug use among state prisoners and general population groups in the month before based on criminal justice system involvement in the past year, by drug type, 2007–2009

			Ad	ults in the general pop	ulation	
		Total		Percent of	fstandardized	
Type of drug	State prisoners*	(nonstandardized)	Total	Noncriminala	Under supervisionb,c	Arrested <sup>c,d</sup>
Any drug <sup>e</sup>	39.3%	8.1%**	12.2%**	10.5%**	23.9%**	31.7%**
Marijuana/hashish	27.5	6.1**	9.8**	8.4**	18.4**	26.0
Cocaine/crack	14.7	0.8**	1.4**	1.1**	4.1**	4.6**
Heroin/opiates	7.4	2.0**	2.4**	2.0**	5.6**	6.9
Depressants <sup>f</sup>	7.6	0.8**	0.8**	0.7**	3.0**	3.4**
Stimulants <sup>g</sup>	10.1	0.4**	0.4**	0.4**	1.8**	2.1**
Methamphetamine	8.2	0.2**	0.2**	0.1**	1.1**	1.3**
Hallucinogens <sup>h</sup>	6.3	0.4**	0.7**	0.5**	1.9**	2.4**
Inhalants	1.1	0.1**	0.2**	0.2**	0.3**	0.4**

Note: Detail sums to more than total because persons may have used more than one type drug. NIS estimates based on drug use in the month before arrest. General population estimates based on drug use in the past month. General population estimates standardized to the state prisoner population based on sex, race, Hispanic origin, and age. See appendix table 17 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys (NIS), 2007 and 2008–09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health (NSDUH), 2007–2009.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with the comparison group is significant at the 95% confidence level.

alncludes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had not been arrested or on probation or parole in the past 12 months.

blncludes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had been on probation or parole in the past 12 months.

<sup>&</sup>lt;sup>c</sup>A small percentage of respondents said they had been on probation or parole and had been arrested in the past 12 months. See *Methodology*.

dIncludes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had been arrested in the past 12 months.

eIncludes other unspecified drugs.

fIncludes barbiturates, tranquilizers, and Quaaludes.

<sup>&</sup>lt;sup>9</sup>Includes amphetamines and methamphetamine.

<sup>&</sup>lt;sup>h</sup>Includes LSD, PCP, and ecstasy.

# Sentenced jail inmates were more likely than the general population to have used drugs in the prior month

During 2007-09, more than half (55%) of sentenced jail inmates used drugs in the month before the arrest (table 13). This compares to 12% of adults in the standardized general population with no criminal justice involvement, 14% of adults in the standardized general population, 27% of those on probation or parole, and 35% of those who had been arrested in the past year.

Across all drug types, sentenced jail inmates were more likely than adults in the general population to have used the drug in the month prior to their interview. This pattern also held for each subgroup of adults in the general population by criminal justice involvement.

Compared to the standardized total general population, sentenced jail inmates were more likely to have reported past month stimulant use (12% for jail inmates and 1% for the general population), to have used cocaine/crack (21% and 1%), and to have used depressants (12% and 1%).

TABLE 13

Drug use among sentenced jail inmates and general population groups in the month before based on criminal justice system involvement in the past year, by drug type, 2007–2009

		Adults in the general population					
	Sentenced	Total	Percent of standardized				
Type of drug	jail inmates*	(nonstandardized)	Total	Noncriminala	Under supervision b,c	Arrested <sup>c,d</sup>	
Any drug <sup>e</sup>	54.5%	8.1%**	14.3%**	12.4%**	27.2%**	34.6%**	
Marijuana/hashish	38.7	6.1**	11.8**	10.2**	21.6**	28.6**	
Cocaine/crack	21.1	0.8**	1.4**	1.1**	4.2**	4.6**	
Heroin/opiates	12.0	2.0**	2.8**	2.4**	6.6**	7.7**	
Depressants f	12.0	0.8**	1.0**	0.8**	3.1**	3.6**	
Stimulants <sup>g</sup>	12.3	0.4**	0.6**	0.4**	2.1**	2.3**	
Methamphetamine	9.8	0.2**	0.2**	0.2**	1.2**	1.3**	
Hallucinogensh	9.1	0.4**	0.9**	0.7**	2.4**	3.0**	
Inhalants	1.1	0.1**	0.2**	0.2**	0.4**	0.5**	

Note: Detail sums to more than total because persons may have used more than one type drug. NIS estimates based on drug use in the month before arrest. General population estimates based on drug use in the past month. General population estimates standardized to the state prisoner population based on sex, race, Hispanic origin, and age. See appendix table 18 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys (NIS), 2007 and 2008–09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health (NSDUH), 2007–2009.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with the comparison group is significant at the 95% confidence level.

alncludes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had not been arrested or on probation or parole in the past 12 months.

blincludes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had been on probation or parole in the past 12 months.

<sup>&</sup>lt;sup>c</sup>A small percentage of respondents said they had been on probation or parole and had been arrested in the past 12 months. See *Methodology*.

<sup>&</sup>lt;sup>d</sup>Includes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had been arrested in the past 12 months.

<sup>&</sup>lt;sup>e</sup>Includes other unspecified drugs.

fIncludes barbiturates, tranquilizers, and Quaaludes.

glncludes amphetamines and methamphetamine.

<sup>&</sup>lt;sup>h</sup>Includes LSD, PCP, and ecstasy.

# Participation in drug treatment programs

# Fewer than 3 in 10 inmates who met the criteria for drug dependence or abuse received drug treatment or participated in a program

Among inmates who met the DSM-IV criteria for drug dependence or abuse, 26% of prisoners and 19% of jail inmates said they received drug treatment or participated in a program since arrival to the current facility (table 14). However, inmates may have participated in or received more than one type of treatment program. Sixteen percent of those in prison said they participated in a self-help group or peer counseling, 14% were in a drug education program, 8% were placed in a residential facility or unit, and 5% received drug-related counseling by a professional. In comparison, about 10% of sentenced jail inmates who met the DSM-IV criteria participated in a self-help group or peer counseling, 8% were in a drug education program, 7% were placed in a residential facility or unit, and 5% received drug-related counseling by a professional.

# Prisoner and jail inmate participation in a drug treatment program differed by time since arrival to the current facility

Prisoner and jail inmate participation in a drug treatment program was assessed by time spent in the current facility since arrival and expected time left until release. Among prisoners who met the criteria for dependence or abuse and had been in the current facility for 6 months or less, 19% received or participated in a drug treatment program during 2007-09 (table 15). Of those prisoners who met the criteria for dependence or abuse and had 12 months or less before release, 29% said they had participated in a drug treatment program.

Among sentenced jail inmates who met the criteria for dependence or abuse and had been in the current facility for 6 months or less, 17% participated in a drug treatment program. Twenty-one percent of jail inmates who met the criteria and had 12 months or less until release participated in a drug treatment program.

#### **TABLE 14**

Participation in drug treatment programs since arrival to current facility among state prisoners and sentenced jail inmates who met drug dependence or abuse criteria, 2007–2009

Type of drug treatment program	State prisoners	Sentenced jail inmates
Any drug treatment program	25.9%	19.4%
Treatment	13.2%	11.9%
Residential facility or unit	8.5	6.8
Counseling by a professional	5.5	5.2
Detoxification unit	1.0	1.1
Maintenance drug	0.4	0.6
Other programs	22.5%	14.3%
Self-help group/peer counseling	16.1	9.7
Education program	14.2	7.8

Note: See *Methodology* for definition of drug dependence and abuse based on the *Diagnostic and Statistical Manual of Mental Disorders*, Fourth Edition. See appendix table 19 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008-09.

### **TABLE 15**

Participation in drug treatment programs since arrival to current facility among state prisoners and sentenced jail inmates who met drug dependence or abuse criteria, by time since arrival and time until release, 2007–2009

Time served and time until release	State prisoners	Sentenced jail inmates
Time since arrival		
6 months or less*	19.0%	17.2%
More than 6 months	30.1**	28.5**
Time until release		
12 months or less*	28.6%	21.2%
More than 12 months	24.8	19.6

Note: See *Methodology* for definition of drug dependence and abuse based on the *Diagnostic and Statistical Manual of Mental Disorders*, Fourth Edition. See appendix table 20 for standard errors.

<sup>\*</sup>Comparison group.

<sup>\*\*</sup>Difference with comparison group is significant at the 95% confidence level.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

# More inmates who met the criteria for dependence or abuse participated in a drug treatment program than adults in the general population

An estimated 11% of adults in the general population who met the DSM-IV criteria for drug dependence or abuse received or participated in a drug treatment program in the past 12 months prior to the interview (table 16). (See *Methodology.*) Among adults in the general population who met the criteria for dependence or abuse, criminal justice involvement increased the likelihood of past year participation in a drug treatment program. When standardized to match the prison population by sex, race, Hispanic origin, and age, about 8% of adults in the general population who met the criteria for dependence or abuse and had no past year criminal justice involvement received or participated in a drug treatment program in the past year. In comparison, 35% of the probation or parole population and 30% of those arrested in the past year were in a drug treatment program.

Adults in the general population who met the criteria for dependence or abuse and who participated in a drug treatment program in the past year reported more often that it was a self-help group compared to other treatment program type. When standardized to match the prison population by sex, race, Hispanic origin, and age, 30% of those on probation or parole, 23% of those who were arrested, 10% of adults in the total general population, and 5% of noncriminally justice-involved adults in the past year reported they had attended a self-help group. Of those adults who met the criteria for dependence or abuse and participated in a drug treatment program in the past year, 5% of those on probation or parole and 4% of those who were arrested reported that the location of this drug treatment program was in a prison or jail.

TABLE 16
Drug treatment program participation in the past year among the general population who met drug dependence or abuse criteria, by location and involvement in criminal justice system, 2007–2009

	Total	Percent of standardized				
Drug treatment program location	(nonstandardized)	Total	Noncriminal <sup>a</sup>	Under supervision b,c	Arrested <sup>c,d</sup>	
Any location	11.4%	13.7%	7.8%	34.9%	29.7%	
Hospital, inpatient	4.2	5.2	2.8	12.1	9.5	
Rehab facility, inpatient	5.4	7.3	4.7	16.1	10.6	
Rehab facility, outpatient	6.8	8.4	4.6	22.2	16.0	
Mental health facility, outpatient	4.2	4.4	2.6	8.7	7.5	
Emergency room	2.2	2.5	1.8	4.9	4.1	
Private doctor's office	3.0	3.5	1.7	7.5	7.8	
Self-help group	7.8	10.0	5.1	30.2	23.0	
Prison or jail	1.1	1.8	0.1	5.4	4.0	

Note: Persons may have received or participated in more than one drug treatment program. General population estimates have been standardized to the prisoner population based on sex, race, Hispanic origin, and age. See *Methodology* for definition of drug dependence and abuse based on the *Diagnostic and Statistical Manual of Mental Disorders*, Fourth Edition. See appendix table 21 for standard errors.

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health (NSDUH), 2007–2009.

alncludes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had not been arrested or on probation or parole in the past 12 months.

bIncludes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had been on probation or parole in the past 12 months.

<sup>&</sup>lt;sup>c</sup>A small percentage of respondents said they had been on probation or parole and had been arrested in the past 12 months. See Methodology.

<sup>&</sup>lt;sup>d</sup>Includes respondents from the 2007, 2008, and 2009 NSDUH who indicated they had been arrested in the past 12 months.

# Methodology

# National Inmate Surveys, 2007 and 2008-09

Estimates produced for this report are based on survey responses from the National Inmate Survey, 2007 (NIS-1) and the National Inmate Survey, 2008-09 (NIS-2). The NIS-1 was conducted in 127 state prisons, 14 federal prisons, and 282 local jails between April and December 2007. The NIS-2 was conducted in 148 state prisons, 19 federal prisons, 286 local jails, and 10 special facilities (military, Indian country, and Immigration and Customs Enforcement (ICE)) between October 2008 and December 2009. RTI International, under a cooperative agreement with the Bureau of Justice Statistics (BJS), collected the data for both collections.

The NIS-1 and NIS-2 administered two questionnaires to inmates: (1) a survey about sexual victimization while incarcerated and (2) a survey about prior drug and alcohol use, drug dependence and abuse symptoms, and treatment for drug dependence or abuse. Inmates were randomly assigned to receive one of the two questionnaires, so that at the time of the interview, the content of the survey remained unknown to facility staff and the interviewers.

A total of 71,571 inmates participated in NIS-1 and 81,566 inmates participated in NIS-2 receiving either the sexual victimization survey or the randomly assigned companion survey. In NIS-1, the surveys were administered to 22,943 inmates in state prisons, 3,214 federal prisons, and 45,414 inmates in jails. In NIS-2, the surveys were administered to 28,749 state prisoners, 3,280 federal prisoners, 48,066 inmates in jails, and 1,471 inmates in special facilities.

The interviews, which averaged 30 minutes, used computer-assisted personal interviewing (CAPI) and audio computer-assisted self-interviewing (ACASI) data collection methods. In both surveys, interviewers conducted a personal interview using CAPI to obtain background information and date of administration. For the remainder of the interview, inmates interacted with a computer administered questionnaire using a touchscreen and synchronized audio instructions delivered via headphones. Respondents completed the ACASI portion of the interview in private, with the interviewer either leaving the room or moving away from the computer. ACASI administration helped to elicit more candid responses on sensitive subjects and behaviors, eliminated literacy issues, and protected respondents' privacy. While underreporting of behaviors may exist, the relative extent is unknown.

A shorter paper questionnaire (PAPI) was made available for inmates who were unable to come to the private interviewing room or interact with the computer. The paper form was completed by 530 NIS-1 and 496 NIS-2 prisoners (or 2.0% for NIS-1 and 1.5% for NIS-2 prisoner interviews)

and 233 NIS-1 and 226 NIS-2 jail inmates (0.5% of all jail inmate interviews in both NIS-1 and NIS-2). Inmates who completed the PAPI were not asked about their prior drug and alcohol use or treatment for drug abuse.

Additional information on the methodology for sample selection of facilities and inmates can be found in *Sexual Victimization in Local Jails Reported by Inmates*, 2007 (NCJ 221946, BJS web, June 2008), *Sexual Victimization in State and Federal Prisons Reported by Inmates*, 2007 (NCJ 219414, BJS web, December 2007), and *Sexual Victimization in Prisons and Jails Reported by Inmates*, 2008-09 (NCJ 231169, BJS web, August 2010).

In this report, the analysis of past drug use, drug dependence and abuse symptoms, and treatment was restricted to adult state prisoners or jail inmates. Inmates in federal prisons, military, Indian country, or ICE facilities were excluded from this report.

# Measurement of prior drug use and drug abuse treatment

Prior drug use, drug dependence and abuse symptoms, and treatment modules were administered to participating inmates in the NIS-1 and NIS-2 for one of two reasons:

- 1. To ensure the survey length was similar for all participating prisoners and jail inmates regardless of whether they had experienced a victimization.
- 2. As part of the alternative survey, the drug use questions consisted of an initial screener asking about each type of drug a prisoner or jail inmate may have used in their lifetime prior to incarceration. For each drug that an inmate had used, follow-up questions were asked about the frequency of use and periods in which the inmate used the drug (e.g., month prior to the offense, at the time of the offense).

Questions on past drug use consisted of an initial screener asking about eight types of drugs a prisoner or jail inmate may have ever used in their lifetime: marijuana/hashish, cocaine/crack, heroin/opiates, depressants, stimulants, methamphetamine, hallucinogens, and inhalants. For each drug that an inmate said they had ever used, follow-up questions were asked about the frequency in which each drug was used and periods in which the inmate used the drug (e.g., month prior to the offense or at the time of the offense).

Prisoners and jail inmates who met the drug dependence or abuse criteria were asked if they had attended any kind of drug treatment program since admission to the current facility. Drug treatment programs were defined as (1) spending time in a special facility or unit, (2) counseling with a trained professional while not living in a special facility or unit, (3) spending up to 72 hours in a detoxification unit to dry out, (4) receiving a maintenance drug to cut the high or to

make you sick (e.g., methadone), (5) self-help or peer group counseling (e.g., Narcotics Anonymous), or (6) an education or awareness program that explained the problems with drug use.

Among prisoners and jail inmates who received the sexual victimization survey (90% of inmates surveyed in NIS-1 and 95% of inmates surveyed in NIS-2), inmates received the prior drug use, dependence and abuse symptoms, and treatment components only if they completed the sexual victimization modules in less than 30 minutes. Based on this criterion, 38,008 state prisoners received the past drug use and drug abuse treatment modules (80% of sexual victimization survey prison respondents). Among jail respondents, 73,396 inmates received the past drug use and drug abuse treatment modules (86% of jail sexual victimization survey respondents).

A total of 3,432 state prisoners and 6,577 jail inmates were randomized to the alternative survey. This constituted 10% of NIS-1 respondents and 5% of NIS-2 respondents. These prisoners and jail inmates received the full set of past drug use, dependence and abuse symptoms, and treatment modules.

# Measurement of drug dependence and abuse

To determine if a prisoner or jail inmate met the criteria for drug dependence or abuse, a series of questions was modeled after the DSM-IV criteria and included on the NIS surveys. The following NIS questions were used to assess drug dependence with the corresponding DSM-IV criteria category in parentheses. A positive response to three or more of the items indicated that a prisoner or jail inmate likely met the DSM-IV criteria for dependence.

During the year before you were admitted to the current facility—

- 1. Did your usual amount of drugs have less effect on you than it once did or did you have to use more to get the effect you wanted? (tolerance)
- 2. Did you experience some of the bad after-effects of using drugs after cutting down or stopping your drug use—like shaking, feeling nervous or anxious, sick to your stomach, restless, sweating, or having trouble sleeping or fits or seizures, or see, feel, or hear things that weren't really there? (withdrawal-a)
- 3. Did you ever keep using drugs to get over any of the bad after-effects of a drug or to keep from having bad after-effects? (withdrawal-b)
- 4. Did you often use a drug in larger amounts or for longer periods than you meant to? (compulsive use)

- Did you more than once want to cut down on your drug use or try to cut down on your drug use but found you couldn't do it? (impaired control)
- 6. Did you spend a lot of time getting drugs, using them, or getting over the bad after-effects? (time spent)
- 7. Did you give up activities that you were interested in or that were important to you in favor of using drugs like—work, school, hobbies, or associating with family and friends? (neglect of activities)
- 8. Did you continue to use drugs even though it was causing emotional or psychological problems? (continued use despite problems-a)
- Did you continue to use drugs even though it was causing physical health or medical problems? (continued use despite problems-b)

For each symptom, the percentage of prisoners reporting they experienced symptoms ranged from 31% (withdrawal) to 40% (continued use despite problems) (table 17). Approximately 45% of prisoners had no dependence symptoms, 8% had one, and 47% had two or more. For jail inmates, the percentage who experienced symptoms ranged from 37% (withdrawal, time spent obtaining and using, and neglect of activities) to 46% (continued use despite problems). Thirty-nine percent of jail inmates had no dependence symptoms, 8% had one, and 53% had two or more.

**TABLE 17**State prisoners and sentenced jail inmates who answered affirmatively to dependence symptoms, by symptom type and number of symptoms, 2007–2009

Symptom	State prisoners	Sentenced jail inmates
Dependence symptoms	40.5%	47.2%
Tolerance	37.7	43.6
Withdrawal	30.5	37.1
Compulsive use	35.9	41.1
Impaired control	36.9	44.2
Time spent obtaining and using	31.8	37.1
Neglect of activities	31.4	37.2
Continued use despite problems	40.4	46.0
Number of symptoms		
0	45.0%	38.6%
1	8.3	8.3
2	6.2	5.9
3	5.9	6.0
4–5	11.0	11.9
6–7	23.7	29.2

Note: See appendix table 22 for standard errors.

The following NIS questions were used to measure if a person met the drug abuse criteria. The corresponding DSM-IV criteria category follows in parentheses. A positive response to one or more of the items, in conjunction with fewer than three positive responses to the dependence items, indicated that a prisoner or jail inmate was likely to have met the criteria for drug abuse.

During the year before you were admitted to the current this facility—

- 1. Did you lose a job because of your drug use? (failure to fulfill obligations-a)
- Did you have job or school trouble because of your drug use, like missing too much work, not doing your work well, being demoted at work, or dropping out of school? (failure to fulfill obligations-b)
- 3. Did using drugs or being sick from using drugs keep you from doing work, going to school, or caring for children? (failure to fulfill obligations-c)
- 4. Did you get into situations while using drugs or just after using drugs that increased your chances of getting hurt—like driving a car or other vehicle, swimming, using machinery, or walking in a dangerous area or around traffic? (use in hazardous situations)
- 5. Did you get arrested or held at a police station because of your drug use? (legal problems)
- 6. Did you have arguments with your spouse, boyfriend or girlfriend, family, or friends while under the influence of a drug? (social problems-a)
- 7. Did you get into a physical fight while under the influence of a drug? (social problems-b)
- 8. Did you continue to use drugs even though it was causing problems with family, friends, or work?" (social problems-c)

For each abuse symptom, the percentage of prisoners reporting they experienced symptoms ranged from 28% (legal problems) to 52% (social problems) (table 18). Approximately 43% of prisoners had no abuse symptoms, 14% had one, and 43% had two or more. Among jail inmates, the percentage who met each abuse symptoms ranged from 31% (use in hazardous situations) to 56% (social problems). Thirty-eight percent had no symptoms, 14% had one, and 48% had two or more.

# Nonresponse bias analysis

Bias occurs when the estimated prevalence of an outcome is different from the actual prevalence of the outcome for a given facility. One potential source of bias is nonresponse. A nonresponse bias analysis was conducted to determine if prisoners or jail inmates who did not receive the past drug use, alcohol, and drug abuse treatment modules were different from those who did.

Among the sexual victimization survey respondents, there were two potential sources for nonresponse bias. First, due to time limitations in the survey, about 20% of ACASI state prison respondents and 16% of ACASI jail respondents did not receive the drug, alcohol, and treatment modules. These respondents were more likely to have indicated a sexual victimization. While these percentages were large, it was determined to be possible to adjust for this potential bias through a post-survey weight adjustment (see section on Weighting and nonresponse adjustments). Second, prisoners or jail inmates who took the survey via PAPI did not receive the past drug use, dependence, or abuse symptoms, or treatment modules. The sexual assault survey PAPI respondents were found to have a higher prevalence of sexual victimization. Given that the PAPI respondents made up 1.8% of prison respondents and 0.5% of jail respondents across the combined survey years, it was determined that a weight adjustment could reduce the potential bias due to PAPI respondents not being asked the past drug use and drug abuse items.

For the alternative survey, since all respondents completed the survey via ACASI, there was no potential for bias due to the mode of the interview.

TABLE 18
State prisoners and sentenced jail inmates who answered affirmatively to abuse symptoms, by symptom type and number of symptoms, 2007–2009

Symptom	State prisoners	Sentenced jail inmates
Abuse symptoms	56.8%	61.9%
Failure to fulfill obligations	33.0	38.8
Use in hazardous situations	29.3	30.7
Legal problems	27.9	32.1
Social problems	51.9	56.4
Number of symptoms		
0	43.2%	38.1%
1	13.6	13.9
2	14.7	15.2
3	14.5	17.2
4	13.9	15.5

Note: See appendix table 23 for standard errors.

# Weighting and nonresponse adjustments

Responses from interviewed prisoners and jail inmates were weighted to produce national-level estimates. Each interviewed inmate was assigned an initial weight corresponding to the inverse of the probability of selection within each sampled facility. A series of adjustment factors was applied to the initial weight to minimize potential bias due to nonresponse and to provide national estimates:

- The adjustment of overall survey nonresponse is described in detail in Sexual Victimization in Local Jails Reported by Inmates, 2007 (NCJ 221946, BJS web, June 2008), Sexual Victimization in State and Federal Prisons Reported by Inmates, 2007 (NCJ 219414, BJS web, December 2007), and Sexual Victimization in Prisons and Jails Reported by Inmates, 2008-09 (NCJ 231169, BJS web, August 2010).
- A second weighting adjustment was conducted to account for the potential bias due to survey mode nonresponse among the sexual victimization survey respondents. Bias could result if the PAPI respondents were different from the ACASI respondents. Because PAPI respondents received only the sexual victimization survey, this adjustment was not applied to alternative survey respondents. The adjustment for mode nonresponse included a calibration of the weights so that the weight from a PAPI respondent was assigned to an ACASI respondent with similar characteristics. Since both ACASI and PAPI respondents provided demographic and criminal history information, these data were used in weight adjustment. For each inmate, these adjustments were based on a generalized exponential model developed by Folsom and Singh (2002), and applied to the sexual victimization survey respondents.<sup>5</sup>
- 3. A third adjustment corrected for module nonresponse. Sexual victimization survey respondents who did not complete the sexual victimization modules within 30 minutes and, therefore, did not receive the past drug use or drug abuse treatment modules were considered nonrespondents. Because alternative survey respondents did not have a similar time constraint, this adjustment was not applied to inmates randomized to the alternative survey.

The module nonresponse adjustment included a calibration of the weights so that the weight from a past drug use and drug abuse treatment module nonrespondent was assigned to a responding prisoner or jail inmate with similar

characteristics. The adjustment used data from modules that both groups completed, including demographic, criminal history, sexual victimization, and interview debriefing characteristics. This adjustment ensured that the estimates accurately reflected the full sample, rather than only the prisoners and jail inmates who responded to the past drug use or drug abuse treatment modules. For each inmate, these adjustments were based on a generalized exponential model and applied to the sexual victimization survey respondents.

The survey mode and module nonresponse adjustments maintained the control totals designed to provide national-level estimates for the number of prisoners and jail inmates age 18 or older who were held in jails at midyear 2007 for NIS-1 and 2009 for NIS-2, or in prison at yearend in 2007 and 2009.6 The totals estimated the number of prisoners and jail inmates by sex during the survey period. These totals came from BJS's Annual Survey of Jails and National Prisoner Statistics Program for local jail and state prison respondents. In 2007, the national estimates for local jails (with an average daily population of six or more inmates) were 673,005 males and 99,810 females. In 2009, the national estimates for state prisons were 1,178,916 adult males and 88,518 adult females. For jails with an average daily population of six or more inmates, estimates included 678,136 adult males and 99,096 adult females.

- 4. A fourth adjustment corrected survey weights to account for the combining of multiple survey years to allow survey totals to represent the average number of prisoners or jail inmates across the survey years included in the analytic file. The weight adjustment was produced by dividing the mode nonresponse adjusted weights by the number of survey years being combined—in this case 2 years.
- 5. A final adjustment was applied to combine data from the sexual victimization survey and the alternative survey. For this adjustment, the weight for each responding prisoner or jail inmate was multiplied by the probability of receiving the survey type received. In NIS-1 the survey nonresponse and mode nonresponse adjusted weight for the ACASI respondents were multiplied by 0.90 for the sexual victimization survey and by 0.10 for respondents to the alternative survey. In NIS-2 the survey nonresponse and mode nonresponse adjusted weight for the ACASI respondents were multiplied by 0.95 in the sexual victimization survey and 0.05 for respondents to the alternative survey.

<sup>&</sup>lt;sup>5</sup>Folsom, Jr., R.E., and Singh, A.C. (2002). The generalized exponential model for sampling weight calibration for extreme values, nonresponse, and poststratification. *Proceedings of the American Statistical Association, Survey Research Methods Section*, pp. 598–603.

 $<sup>^6\</sup>mathrm{In}$  NIS-1 the state in mate population was not benchmarked to the National Prisoner Statistics.

# Standard errors and tests of significance

As with any survey, the NIS estimates are subject to error arising from their basis on a sample rather than a complete enumeration of the population of adult inmates in prisons and jails. For past drug use, dependence and abuse symptoms, and treatment outcomes, the estimated sampling error varies by the size of the estimate, by the number of completed interviews, and by the intracluster correlation of the outcome within facilities.

A common way to express this sampling variability is to construct a 95% confidence interval around each survey estimate. Typically, multiplying the standard error by 1.96 and then adding or subtracting the result from the estimate produces the confidence interval. This interval expresses the range of values that could result among 95% of the different samples that could be drawn.

To facilitate the analysis, differences in the estimates of sexual victimization for subgroups in these tables have been tested and notated for significance at the 95% confidence level. For example, the difference in the percentage of state prisoners who reported ever using heroin/opiates during 2007-09 compared to state prisoners and jail inmates in 2004 is statistically significant at the 95% confidence level (table 1). In all tables providing detailed comparisons, statistically significant differences at the 95% level of confidence or greater have been designated with two asterisks (\*\*) when comparing two different population types (e.g., persons in prison and persons in the general population).

# Comparing NIS estimates to prior prisoner and jail inmate surveys

In analyzing past drug use, dependence and abuse symptoms, and treatment among jail inmates, the analysis was restricted to sentenced jail inmates. The jail population was restricted to be comparable to the Survey of Inmates in Local Jail surveys. The prior survey was restricted to sentenced jail inmates to ensure the respondent would meet the minimum time in the facility to be eligible for the survey, and also to increase the likelihood that the jail respondents would be eligible to have access to treatment services while in jail.

The NIS estimates on drug dependence and abuse and drug abuse treatment were not compared to prior inmate surveys (e.g., 2004 Survey of Inmates in State Correctional Facilities and 2002 Survey of Inmates in Local Jails) for two reasons. First, the NIS used a different data collection mode from the prior inmate surveys. The NIS used ACASI for the drug dependence and abuse criteria and drug abuse treatment modules. The prior prisoner and jail inmate surveys used CAPI for these modules. Second, prior prisoner and jail inmate surveys asked about drug use during the "past month since the inmate's current incarceration."

However, the NIS asked about drug use during the "past month since admission to the current facility." Some prisoners or jail inmates may have been in a different facility—either another prison or a local jail—during the prior month to admission to their current facility.

These mode and measurement differences may confound any differences found when comparing estimates over time. In other words, any differences between prior surveys and the NIS may be due to changes over time or due to measurement and mode differences. Therefore, it is difficult to make confident statements regarding change. Furthermore, the measurement and mode differences impact the NIS estimates in different ways. As noted, ACASI is expected to yield higher estimates than CAPI. However, the instrument wording changes in the NIS likely suppress the past month drug use estimate because inmates did not have access to drugs while in another facility. The magnitude of each of these differences is not known, which makes comparisons with past surveys that used different methodologies and question wording difficult.

# Drug use in the general population

Drug use estimates in the general population come from to the NSDUH. To be most comparable to the prisoner and jail inmate population included in the NIS, the NSDUH 2007-2009 survey years were used in this analysis.

Using indicators provided in the NSDUH survey, the general population was split into three groups: (1) persons not involved in the criminal justice system during the past 12 months, (2) those on probation or parole during the past 12 months, and (3) those arrested in the past 12 months. These groups are not mutually exclusive in that a person can be both on probation or parole and arrested in the past 12 months. For 2007-09, 1% of respondents said they were on probation or parole and had been arrested in the past 12 months. These persons are represented in both criminal justice categories. Persons in the general population on probation and parole or arrested in the past 12 months should be more similar to the prisoner and jail inmate population than those never involved with the criminal justice system during the past 12 months. Figure 1 and tables 4, 5, 9, 10, and 14 compare the inmate population in prisons and jails to the general population.

## Standardization of general population estimates

When comparing two populations, differences found for some characteristics or conditions may be statistically different as a result of a true difference in the populations or due to basic demographic differences that are associated with the outcome of interest. One method to determine if these demographic differences are the sole cause for differences found for other characteristics or conditions is to standardize the estimates.

Standardization of survey estimates consists of calibrating the survey weights for one population such that, for key demographic characteristics that are known for each population, the distributions are identical. This process was done using the statistical software SUDAAN's PROC DESCRIPT procedure. The resulting estimates are not a representation of the standardized population by themselves (i.e., generalizations about the population cannot be made from standardized estimates), but are appropriate estimates for comparison with other populations of interest.

In this report, estimates were standardized for each of the three general population types. For each general population type, estimates were standardized to the prisoner and jail inmate population's distribution by sex, race and Hispanic origin, and age. Because the prison and jail inmate populations differed, the general population was standardized separately to each inmate population (see appendix tables 3 and 4). For the general, noncriminally involved population, estimates were standardized to the inmate population's distribution based on race and Hispanic origin, age, and self-reported veteran status. Tables 3 and 12 include standardized estimates to the prison population. Tables 4 and 13 include standardized estimates to the jail population. When standardization is done both the crude (unstandardized) and standardized estimates are presented for comparability.

Standard errors for figure 1: Inmates and adult general population who met the criteria for drug dependence or abuse, 2007–2009

Population	Dependence	Abuse
State prisoners	0.78%	0.45%
Sentenced jail inmates	0.74	0.44
Adult general population	0.17	0.09

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, 2007–2009.

# **APPENDIX TABLE 2**

Standard errors for table 1: State prisoners and sentenced jail inmates who met the criteria for drug dependence or abuse, 2007-2009

Diagnostic criteria	State prisoners	Sentenced jail inmates
Dependence or abuse	0.77%	0.67%
Dependence	0.78	0.74
Abuse	0.45	0.44
No dependence or abuse	0.77%	0.67%
Total count	41,900	18,400
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Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

### **APPENDIX TABLE 3**

Standard errors for table 2: Drug dependence and abuse among state prisoners and sentenced jail inmates, by selected characteristics, 2007–2009

	State pi	risoners	Sentenced jail inmates	
Characteristic	Count	Percent	Count	Percent
All inmates	24,100	0.77%	11,500	0.67%
Sex				
Male	23,900	0.82%	9,900	0.71%
Female	6,500	1.31	2,800	1.69
Race/Hispanic origin				
White	11,800	1.22%	5,900	0.89%
Black	11,600	1.05	5,800	1.09
Hispanic	10,200	1.60	2,500	1.48
Two or more races	3,700	2.19	1,100	2.38
Other	2,500	3.52	600	5.22
Age				
18-24	7,700	1.44%	3,300	1.29%
25-34	9,200	1.12	3,900	1.10
35-44	8,800	1.11	3,800	1.41
45-54	7,300	1.36	2,200	1.73
55 or older	1,700	2.52	400	3.54
Most serious offense				
Violent	14,200	1.03%	3,400	1.26%
Property	8,100	1.27	4,300	1.10
Drug	8,300	1.32	3,300	1.30
DWI/DUI	2,000	4.18	1,300	2.92
Other public order	2,000	2.90	1,900	1.54

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

### **APPENDIX TABLE 4**

Standard errors for table 3: Drug dependence and abuse among state prisoners and general population groups, by criminal justice system involvement, 2007–2009

		Adults in general population				
Diagnostic criteria	State prisoners	Total	Noncriminal	Under supervision	Arrested	
Dependence or abuse	0.77%	0.20%	0.18%	0.98%	1.31%	
Dependence	0.78	0.17	0.14	0.97	1.31	
Abuse	0.45	0.09	0.09	0.38	0.54	
No dependence or abuse	0.77%	0.20%	0.18%	0.98%	1.31%	

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, 2007–2009.

## **APPENDIX TABLE 5**

Standard errors for table 4: Drug dependence and abuse among sentenced jail inmates and general population groups, by criminal justice involvement, 2007–2009

	Sentenced	Adults in the general population				
Diagnostic criteria	jail inmates	Total	Noncriminal	Under supervision	Arrested	
Dependence or abuse	0.67%	0.19%	0.17%	0.84%	1.11%	
Dependence	0.74	0.15	0.12	0.86	1.11	
Abuse	0.44	0.09	0.09	0.37	0.45	
No dependence or abuse	0.67%	0.19%	0.17%	0.84%	1.11%	

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, 2007–2009.

Standard errors for table 5: State prisoners and sentenced jail inmates who had ever used or regularly used drugs, by drug type, 2002, 2004, and 2007–2009

State pr		prisoners	Sentenced jail inmate	
Type of drug	2004	2007-2009	2002	2007-2009
Ever used				
Any drug	0.48%	0.53%	0.69%	0.50%
Marijuana/hashish	0.56	0.59	0.80	0.59
Cocaine/crack	0.64	0.86	0.87	0.85
Heroin/opiates	0.55	0.77	0.77	0.74
Depressants	0.56	0.81	0.80	0.83
Stimulants	0.79	1.12	1.03	1.04
Methamphetamine	0.76	1.18	1.01	1.06
Hallucinogens	0.62	0.75	0.96	0.64
Inhalants	0.46	0.63	0.61	0.54
Regularly used				
Any drug	0.55%	0.63%	0.93%	0.59%
Marijuana/hashish	0.56	0.65	0.93	0.60
Cocaine/crack	0.52	0.71	0.78	0.78
Heroin/opiates	0.41	0.59	0.60	0.70
Depressants	0.34	0.58	0.61	0.67
Stimulants	0.66	1.06	0.85	0.84
Methamphetamine	0.64	1.07	0.81	1.07
Hallucinogens	0.34	0.52	0.57	0.67
Inhalants	0.23	0.35	0.35	0.27
Total count	200	41,900	177,900	18,400

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09; Survey of Inmates in Local Jails, 2002; and Survey of Inmates in State Correctional Facilities, 2004.

## **APPENDIX TABLE 7**

Standard errors for table 6: State prisoners and sentenced jail inmates who used drugs at time of offense, by drug type, 2007-2009

Type of drug	State prisoners	Sentenced jail inmates
Any drug	0.69%	0.71%
Marijuana/hashish	0.54	0.53
Cocaine/crack	0.58	0.47
Heroin/opiates	0.38	0.44
Depressants	0.30	0.39
Stimulants	0.77	0.58
Methamphetamine	0.74	0.56
Hallucinogens	0.29	0.29
Inhalants	0.07	0.09

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

### **APPENDIX TABLE 8**

Standard errors for table 7: State prisoners and sentenced jail inmates who committed offense to get money for drugs, by type of offense, 2007–2009

Most serious offense	State prisoners	Sentenced jail inmates
All inmates	0.68%	0.58%
Violent	0.69	1.04
Property	1.26	1.28
Drug	1.49	1.33
DWI/DUI	0.28	0.66
Other public order	1.56	0.79

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

## **APPENDIX TABLE 9**

Standard errors for table 8: Drug use in month before offense and at the time of offense among state prisoners and sentenced jail inmates, by selected characteristics, 2007-2009

	State prisoners Sentenced ja		il inmates	
Characteristic	Month before offense	At time of offense	Month before offense	At time of offense
All inmates	0.82%	0.69%	0.77%	0.71%
Sex				
Male	0.87%	0.73%	0.78%	0.78%
Female	2.08	1.66	2.12	2.05
Race/Hispanic origin				
White	1.19%	1.13%	0.99%	1.19%
Black	1.08	1.05	1.42	1.08
Hispanic	1.51	1.46	1.56	1.60
Two or more races	2.18	2.23	2.69	2.45
Other	3.49	4.15	4.58	3.63
Age				
18–24	1.53%	1.51%	1.09%	1.23%
25-34	1.14	1.13	1.25	1.14
35–44	1.14	1.17	1.76	1.46
45–54	1.62	1.39	1.77	1.79
55 or older	1.80	2.12	3.01	2.14
Most serious offense				
Violent	0.90%	0.91%	1.38%	1.28%
Property	1.43	1.37	1.42	1.31
Drug	1.43	1.36	1.35	1.33
DWI/DUI	4.90	4.70	2.16	1.73
Other public order	3.27	2.77	1.54	1.14

Standard errors for figure 2: Regular drug use among state prisoners, by race and Hispanic origin, 2007–2009

Type of drug	White	Black	Hispanic
Any drug	0.97%	0.89%	1.55%
Cocaine/crack	1.14	0.85	1.34
Methamphetamine	1.57	0.24	1.47
Heroin/opiates	1.04	0.56	1.05
Source: Bureau of Justice 9	Statistics National In	mata Survava 20	07 and 2008 00

#### **APPENDIX TABLE 11**

Standard errors for figure 3: Regular drug use among sentenced jail inmates, by race and Hispanic origin, 2007–2009

Type of drug	White	Black	Hispanic
Any drug	0.59%	0.64%	1.24%
Cocaine/crack	0.82	0.81	1.10
Methamphetamine	1.57	0.24	1.47
Heroin/opiates	1.04	0.56	1.05

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

# **APPENDIX TABLE 12**

Standard errors for table 9: Regular cocaine/crack use among state prisoners and sentenced jail inmates, by selected characteristics, 2007–2009

Characteristic	State prisoners	Sentenced jail inmates
Sex		
Male	0.63%	0.56%
Female	2.46	1.63
Race/Hispanic origin		
White	1.14%	0.82%
Black	0.85	0.81
Hispanic	1.34	1.10
Other	1.57	1.75
Age		
18–24	1.50%	0.83%
25–34	1.00	0.88
35-44	1.15	1.21
45–54	1.28	1.21
55 or older	1.61	2.61
Most serious offense		
Violent	0.83%	0.91%
Property	1.25	1.08
Drug	1.15	0.94
DWI/DUI	4.72	2.06
Other public order	1.92	1.01

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

### **APPENDIX TABLE 13**

Standard errors for table 10: Regular use of methamphetamine among state prisoners and sentenced jail inmates, by selected characteristics, 2007–2009

Characteristic	State prisoners	Sentenced jail inmates
Sex		
Male	0.98%	0.86%
Female	2.90	1.85
Race/Hispanic origin		
White	1.57%	1.47%
Black	0.24	0.36
Hispanic	1.47	1.27
Other	2.17	1.53
Age		
18-24	1.57%	0.82%
25-34	1.13	1.21
35-44	1.20	1.30
45-54	1.38	1.05
55 or older	1.07	1.53
Most serious offense		
Violent	0.87%	1.24%
Property	1.68	1.38
Drug	1.37	1.20
DWI/DUI	3.38	1.45
Other public order	1.75	1.05

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

#### **APPENDIX TABLE 14**

Standard errors for table 11: Regular use of heroin/opiates among state prisoners and sentenced jail inmates, by selected characteristics, 2007–2009

Characteristic	State prisoners	Sentenced jail inmates
Sex		
Male	0.53%	0.5%
Female	2.20	1.20
Race/Hispanic origin		
White	1.04%	0.90%
Black	0.56	0.72
Hispanic	1.05	0.95
Other	1.31	1.46
Age		
18-24	1.01%	0.80%
25-34	0.71	0.76
35-44	0.96	0.93
45-54	1.29	1.18
55 or older	1.56	2.09
Most serious offense		
Violent	0.58%	0.66%
Property	1.27	0.96
Drug	0.88	0.90
DWI/DUI	5.17	1.16
Other public order	1.11	0.96

Standard errors for figure 4: Drug use in adult general population who had ever used drugs, 2002-2004 and 2007-2009

Type of drug	2002-2004	2007-2009
Any drug	0.42%	0.25%
Marijuana/hashish	0.36	0.26
Cocaine/crack	0.30	0.18
Heroin/opiates	0.30	0.17
Depressants	0.27	0.13
Stimulants	0.21	0.14
Methamphetamine	0.20	0.11
Hallucinogens	0.29	0.17
Inhalants	0.22	0.14

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

### **APPENDIX TABLE 16**

Standard errors for figure 5: Drug use in adult general population who regularly used drugs, 2002-2004 and 2007-2009

Type of drug	2002-2004	2007-2009
Any drug	0.17%	0.11%
Marijuana/hashish	0.16	0.09
Cocaine/crack	0.06	0.04
Heroin/opiates	0.10	0.05
Depressants	0.06	0.03
Stimulants	0.04	0.02
Methamphetamine	0.03	0.02
Hallucinogens	0.03	0.02
Inhalants	0.03	0.02

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

### **APPENDIX TABLE 17**

Standard errors for table 12: Drug use among state prisoners and general population groups in the month before based on involvement in the criminal justice system in the past year, by drug type, 2007–2009

			Α	dults in the general pop	ulation		
		Total		Percent o	Percent of standardized		
Type of drug	State prisoners	(nonstandardized)	Total	Noncriminal	Under supervision	Arrested	
Any drug	0.82%	0.11%	0.26%	0.22%	1.48%	1.42%	
Marijuana/hashish	0.68	0.09	0.23	0.20	1.21	1.42	
Cocaine/crack	0.56	0.04	0.12	0.11	0.67	0.65	
Heroin/opiates	0.39	0.05	0.11	0.11	0.60	0.71	
Depressants	0.37	0.03	0.05	0.05	0.67	0.62	
Stimulants	0.62	0.02	0.05	0.05	0.33	0.34	
Methamphetamine	0.60	0.02	0.02	0.02	0.27	0.29	
Hallucinogens	0.31	0.02	0.06	0.06	0.50	0.47	
Inhalants	0.16	0.02	0.02	0.03	0.14	0.15	

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008-09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, 2007-2009.

# **APPENDIX TABLE 18**

Standard errors for table 13: Drug use among sentenced jail inmates and general population groups in the month before based on involvement in the criminal justice system in the past year, by drug type, 2007-2009

		Adults in the general population				
	Sentenced	Total	Percent of standardized			
Type of drug	jail inmates	(nonstandardized)	Total	Noncriminal	Under supervision	Arrested
Any drug	0.77%	0.11%	0.25%	0.21%	1.31%	1.22%
Marijuana/hashish	0.78	0.09	0.23	0.19	1.08	1.22
Cocaine/crack	0.64	0.04	0.10	0.10	0.58	0.55
Heroin/opiates	0.54	0.05	0.10	0.10	0.58	0.61
Depressants	0.54	0.03	0.06	0.05	0.50	0.45
Stimulants	0.55	0.02	0.05	0.05	0.33	0.29
Methamphetamine	0.64	0.02	0.03	0.03	0.27	0.21
Hallucinogens	0.41	0.02	0.06	0.06	0.45	0.41
Inhalants	0.12	0.02	0.03	0.03	0.11	0.16

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008-09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, 2007-2009.

Standard errors for table 14: Participation in drug treatment programs since arrival to current facility among state prisoners and sentenced jail inmates who met drug dependence or abuse criteria, 2007–2009

Type of drug treatment program	State prisoners	Sentenced jail inmates
Any drug treatment program	1.02%	0.97%
Treatment	0.72%	0.83%
Residential facility or unit	0.60	0.65
Counseling by a professional	0.41	0.43
Detoxification unit	0.16	0.15
Maintenance drug	0.09	0.13
Other programs	0.92%	0.84%
Self-help group/peer counseling	0.75	0.56
Education program	0.69	0.60

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

## **APPENDIX TABLE 20**

Standard errors for table 15: Participation in drug treatment programs since arrival to current facility among state prisoners and sentenced jail inmates who met drug dependence or abuse criteria, by time since arrival and time until release, 2007–2009

Time served and time until release	State prisoners	Sentenced jail inmates
Time since arrival	-	•
6 months or less	1.30%	1.16%
More than 6 months	1.17	2.19
Time until release		
12 months or less	1.58%	1.20%
More than 12 months	1.28	2.16
Source: Bureau of Justice Statistics, Nati	onal Inmate Surveys, 2	2007 and 2008–09.

# **APPENDIX TABLE 21**

Standard errors for table 16: Drug treatment program participation in the past year among the general population who met drug dependence or abuse criteria, by location and involvement in criminal justice system, 2007-2009

	Total	Percent of standardized			
Drug treatment program location	(nonstandardized)	Total	Noncriminal	Under supervision	Arrested
Any location	0.63%	1.30%	1.14%	2.78%	2.40%
Hospital, inpatient	0.41	0.71	0.69	2.03	1.83
Rehab facility, inpatient	0.48	0.95	1.02	2.42	1.99
Rehab facility, outpatient	0.48	1.00	1.02	2.76	2.57
Mental health facility, outpatient	0.39	0.61	0.44	1.78	1.51
Emergency room	0.34	0.53	0.63	1.74	1.15
Private doctors office	0.37	1.00	0.36	0.58	0.94
Self-help group	0.55	1.25	1.04	2.63	2.43
Prison or jail	0.24	0.65	0.12	2.10	1.44

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09; and Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health, 2007–2009.

Standard errors for table 17: State prisoners and sentenced jail inmates who answered affirmatively to dependence symptoms, by symptom type and number of symptoms, 2007–2009

Symptom	State prisoners	Sentenced iail inmates
Dependence symptoms	0.77%	0.74%
	*****	
Tolerance	0.76	0.75
Withdrawal	0.72	0.77
Compulsive use	0.75	0.66
Impaired control	0.73	0.69
Time spent obtaining and using	0.73	0.73
Neglect of activities	0.69	0.70
Continued use despite problems	0.73	0.79
Number of symptoms		
0	0.70%	0.65%
1	0.31	0.33
2	0.27	0.26
3	0.33	0.37
4–5	0.33	0.42
6–7	0.65	0.67

Source: Bureau of Justice Statistics, National Inmate Surveys, 2007 and 2008–09.

## **APPENDIX TABLE 23**

Standard errors for table 18: State prisoners and sentenced jail inmates who answered affirmatively to abuse symptoms, by symptom type and number of symptoms, 2007–2009

Symptom	State prisoners	Sentenced jail inmates
Abuse symptoms	0.78%	0.68%
Failure to fulfill obligations	0.68	0.63
Use in hazardous situations	0.68	0.67
Legal problems	0.70	0.65
Social problems	0.76	0.74
Number of symptoms		
0	0.78%	0.68%
1	0.45	0.42
2	0.37	0.60
3	0.47	0.51
4	0.48	0.51



The Bureau of Justice Statistics of the U.S. Department of Justice is the principal federal agency responsible for measuring crime, criminal victimization, criminal offenders, victims of crime, correlates of crime, and the operation of criminal and civil justice systems at the federal, state, tribal, and local levels. BJS collects, analyzes, and disseminates reliable and valid statistics on crime and justice systems in the United States, supports improvements to state and local criminal justice information systems, and participates with national and international organizations to develop and recommend national standards for justice statistics. Jeri M. Mulrow is acting director.

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