



Anchorage, Alaska
September 24-28, 2017



Native Opioid Impact, WICSEC Conference 2017 “The Song Remains the Same”

Rick Moldenhauer, MS, LADC, ICADC, LPCC | Planner Principle, State
Opioid Treatment Authority Representative | Alcohol and Drug
Abuse Division, DHS

Hello

- Presented by Rick Moldenhauer,
MS, LADC, ICADC, LPCC

Human Services Representative
2/State Opioid Treatment
Authority

P: (651) 431 2474

F: (651) 431 7449

Alcohol and Drug Abuse Division,
DHS

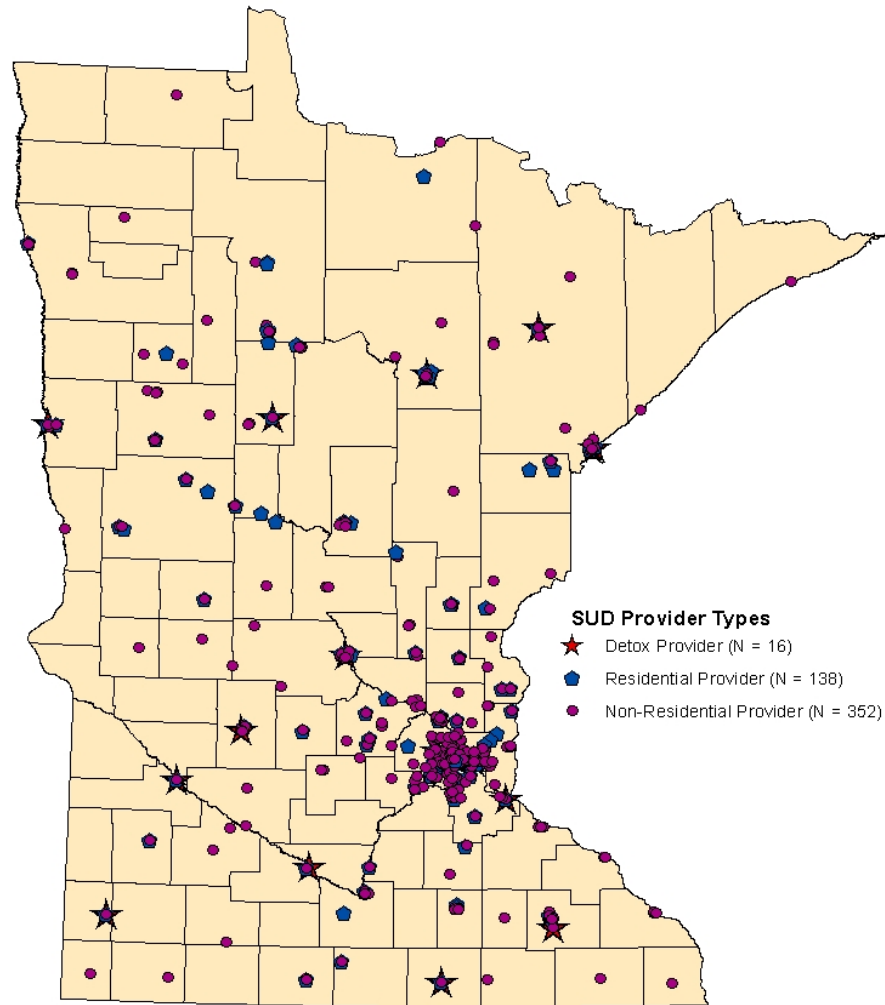
PO Box 64977

St Paul, Minnesota 55164-0977

richard.moldenhauer@state.mn.us



Substance Use Disorder Treatment Providers



Source: Minnesota Department of Human Services, ADAD (1/4/2017)

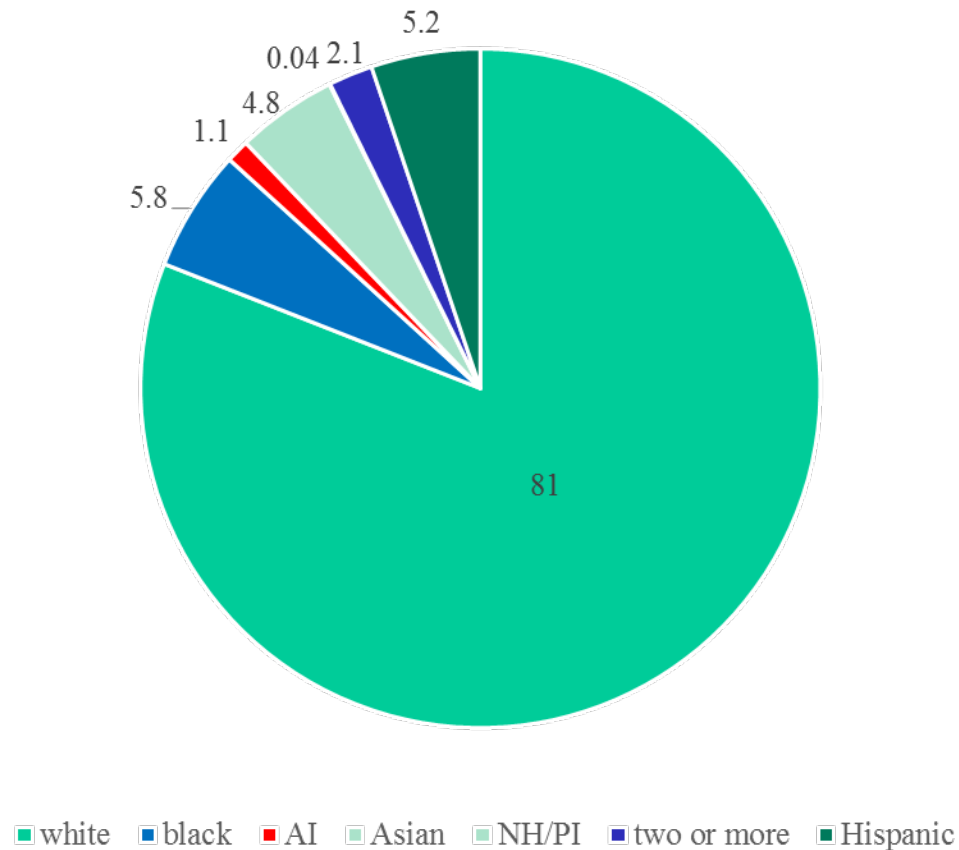
Please remember...

- These are not just numbers, they were People...

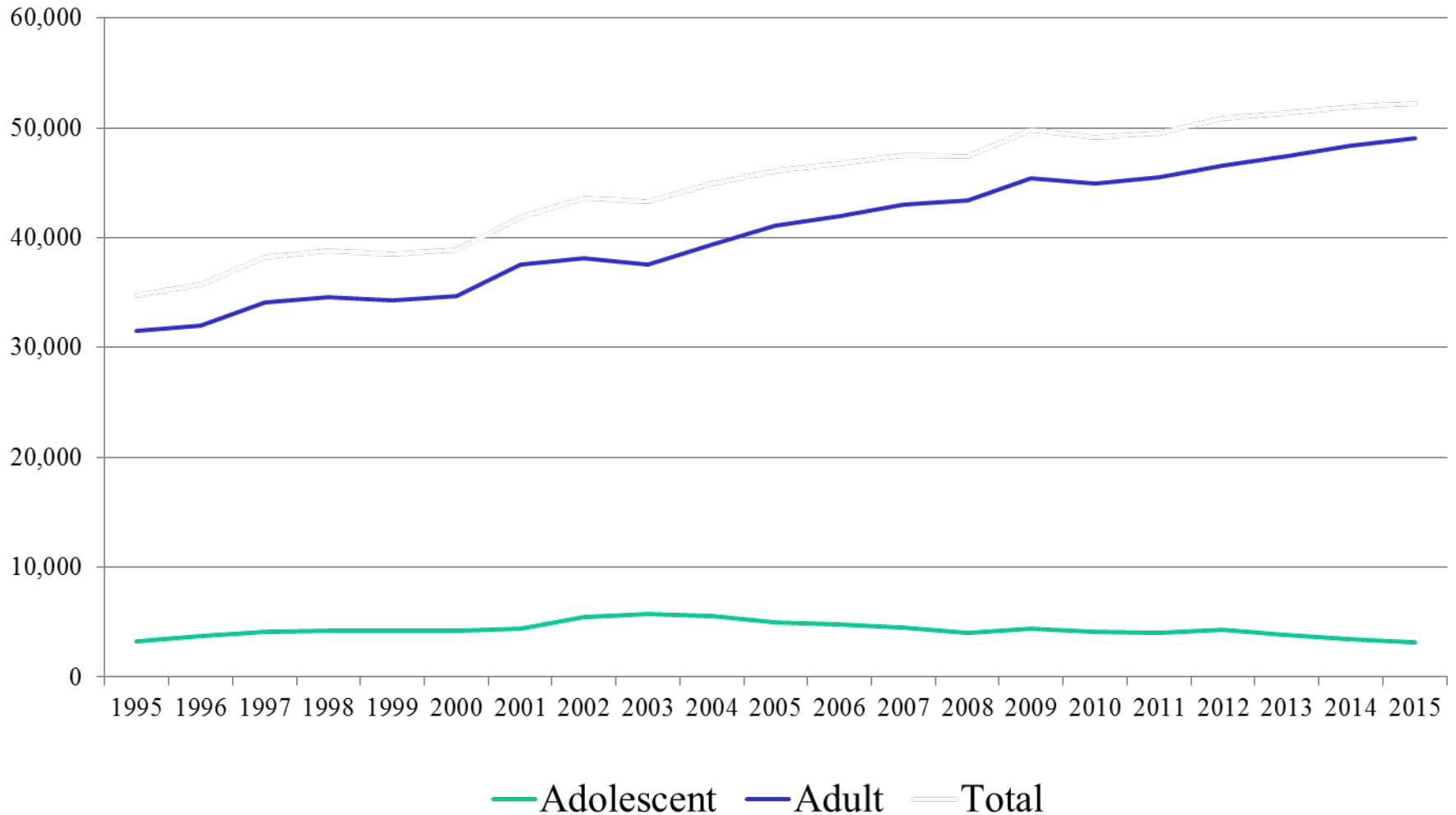


Who are we, Minnesota?

% of total population, July 1, 2015

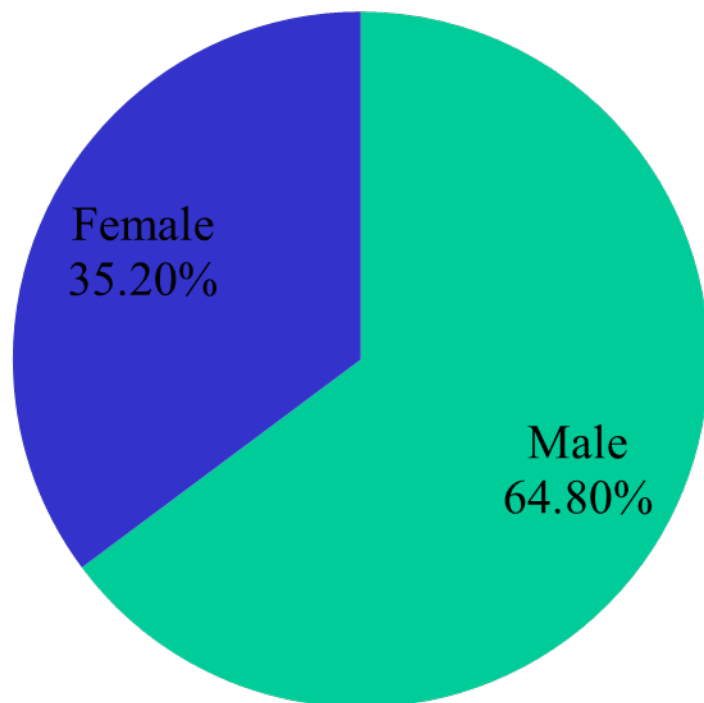


SUD Treatment Admissions CY1995 – CY2015

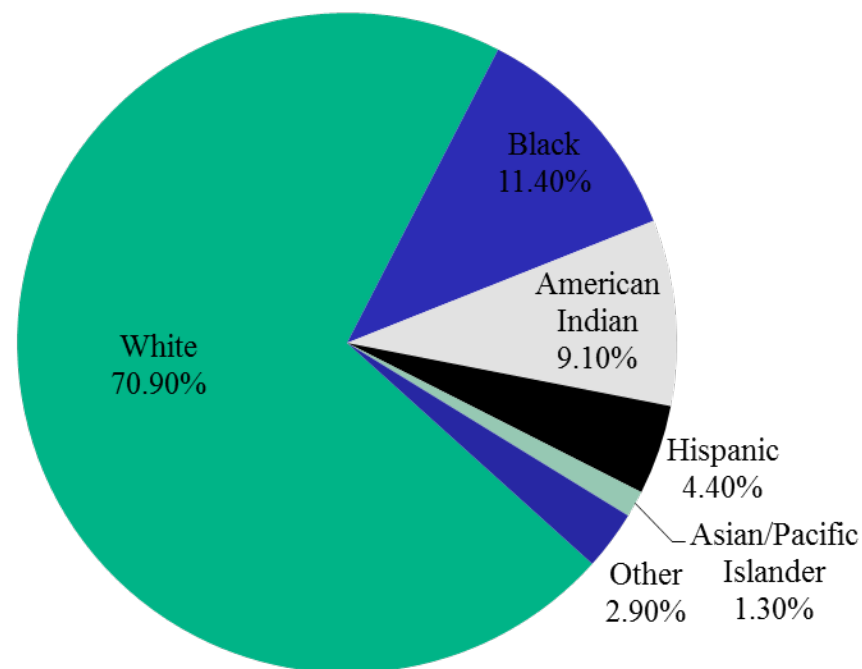


CY2015 Adult SUD Treatment Admissions

Gender



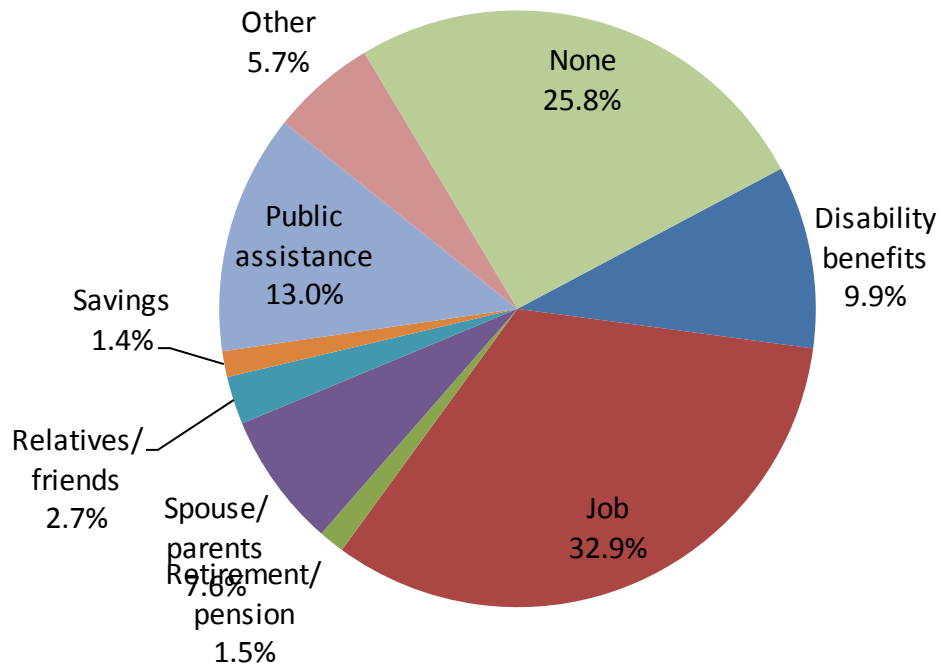
Race/Ethnicity



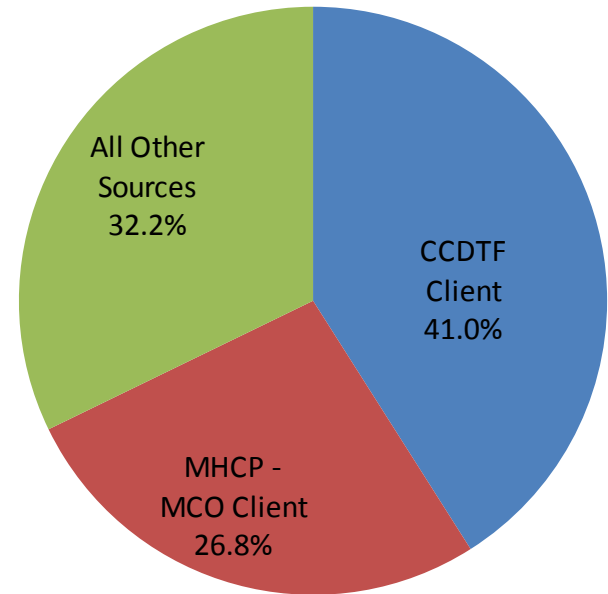
Total Admissions 49,078

CY2015 Adult SUD Treatment Admissions

Source of Income

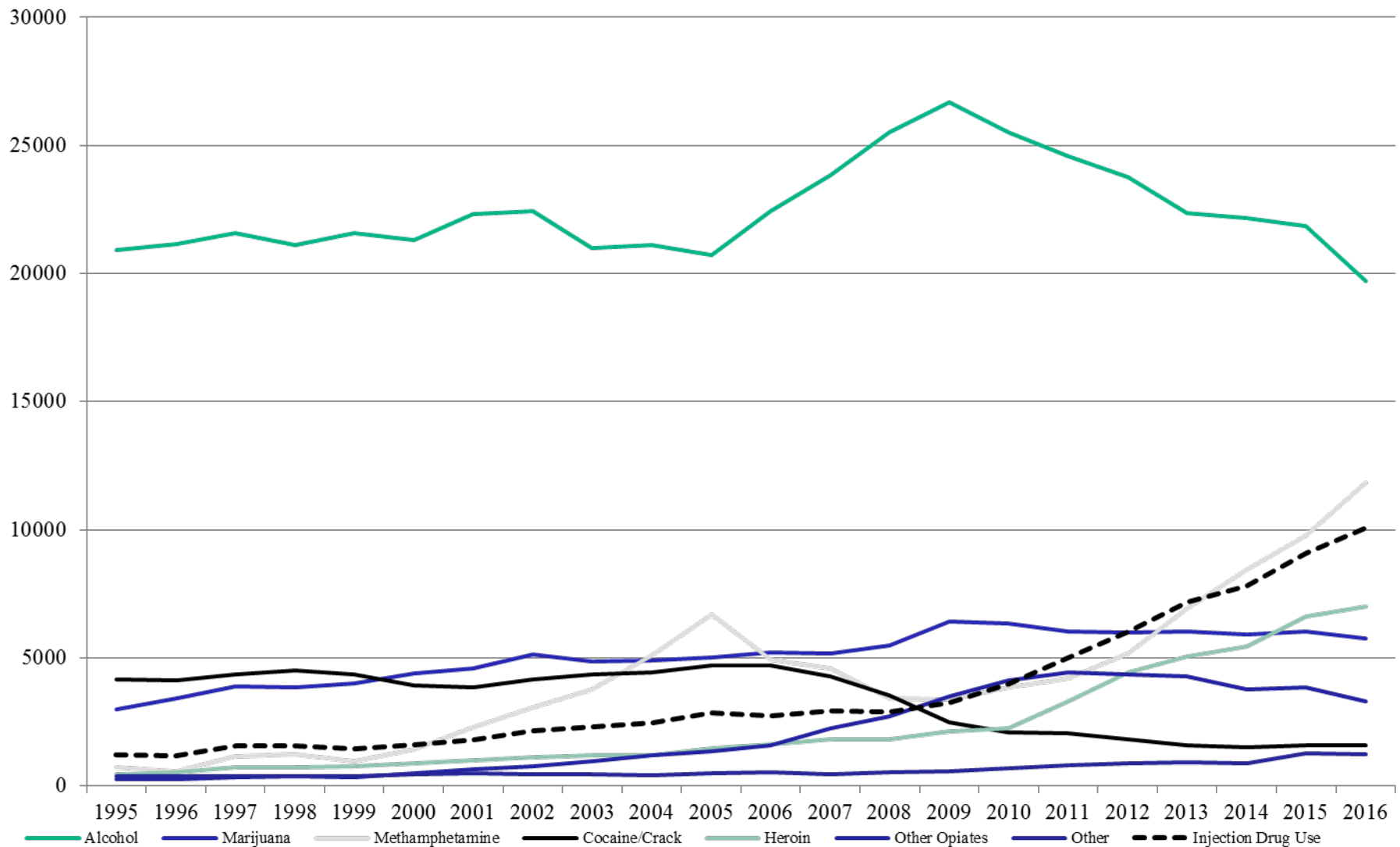


Funding Source

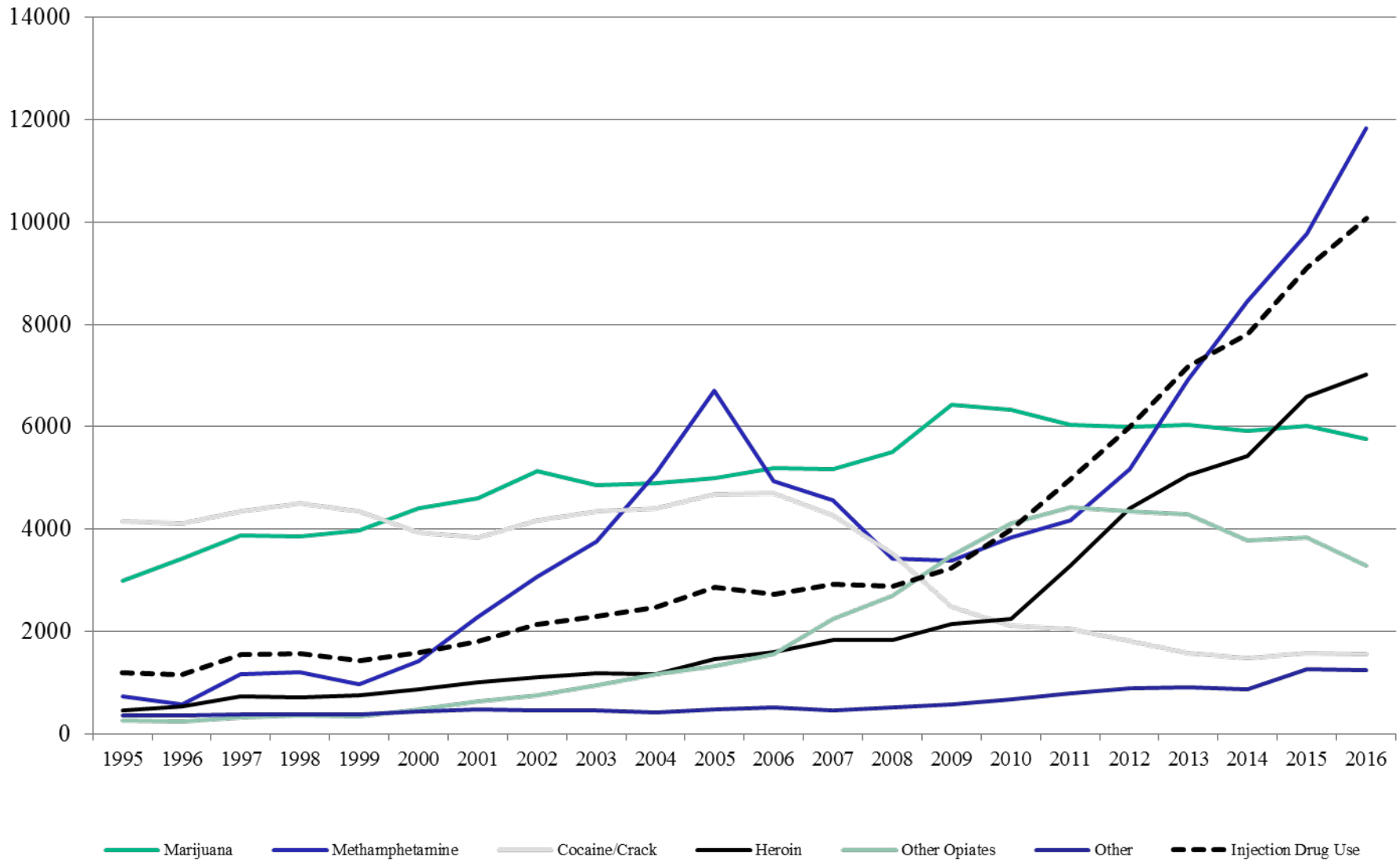


Total Admissions 49,078

Primary Substance at Admission to SUD Treatment Services for Adults CY1995 - CY2016

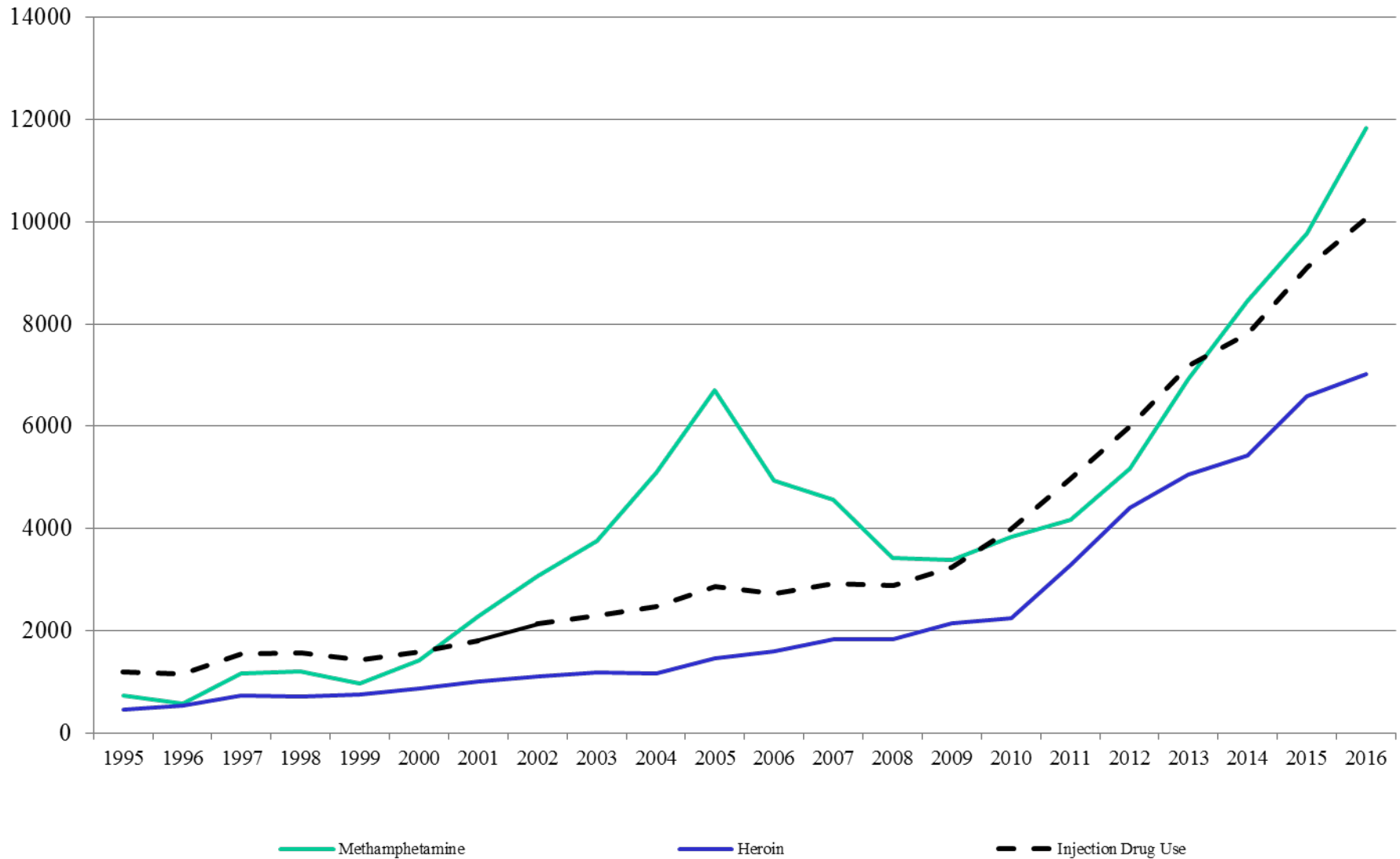


Primary Substance at Admission to SUD Treatment Services for Adults CY1995 - CY2016



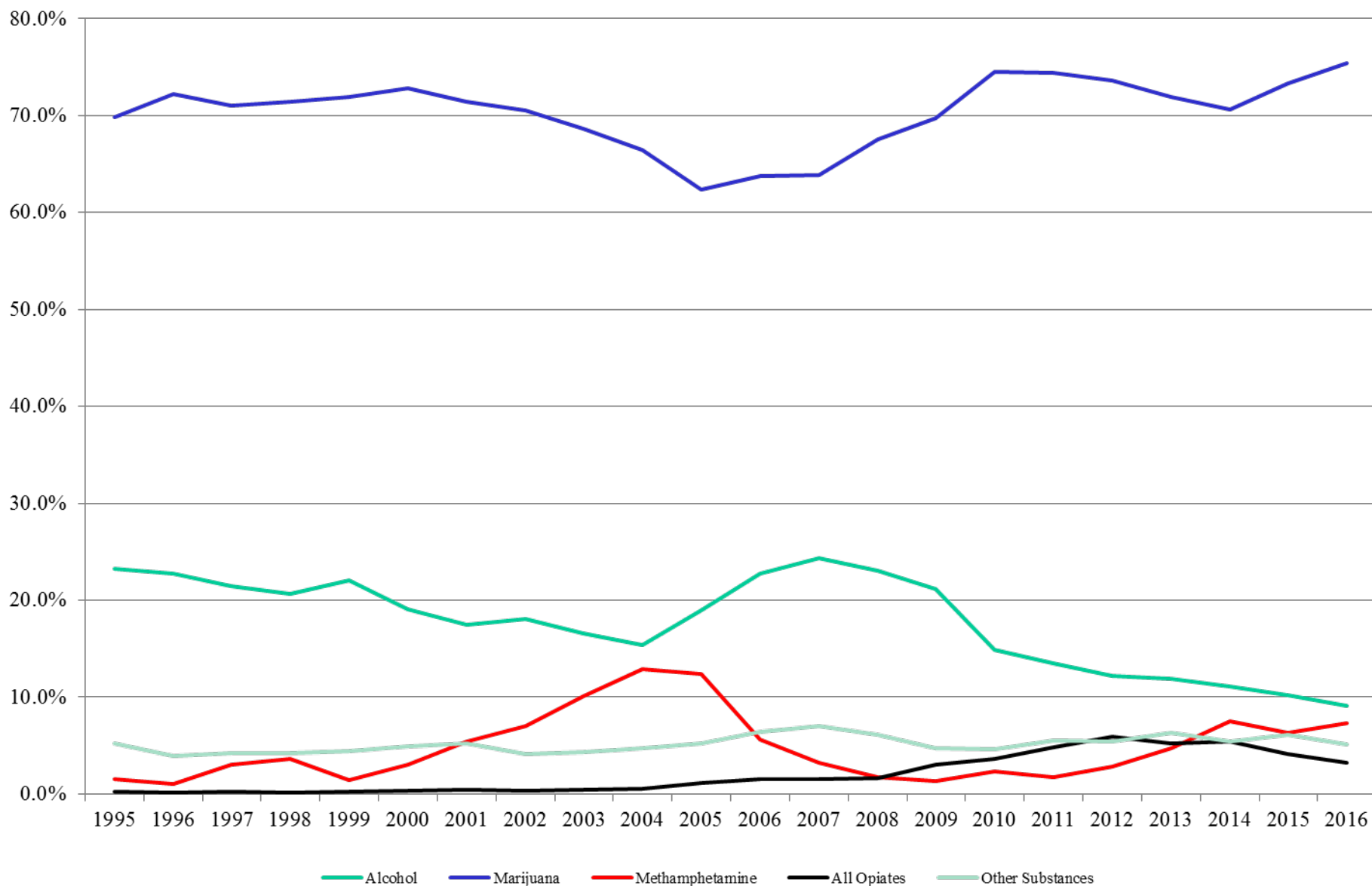
* Alcohol not included in chart

Primary Substance at Admission to SUD Treatment Services for Adults CY1995 - CY2016



* Alcohol not included in chart

Primary Substance at Admission to SUD Treatment Services for Adolescents CY1995 – CY2016



Source: Minnesota Department of Human Services, ADAD, DAANES (5/31/2016)

From the dark side....

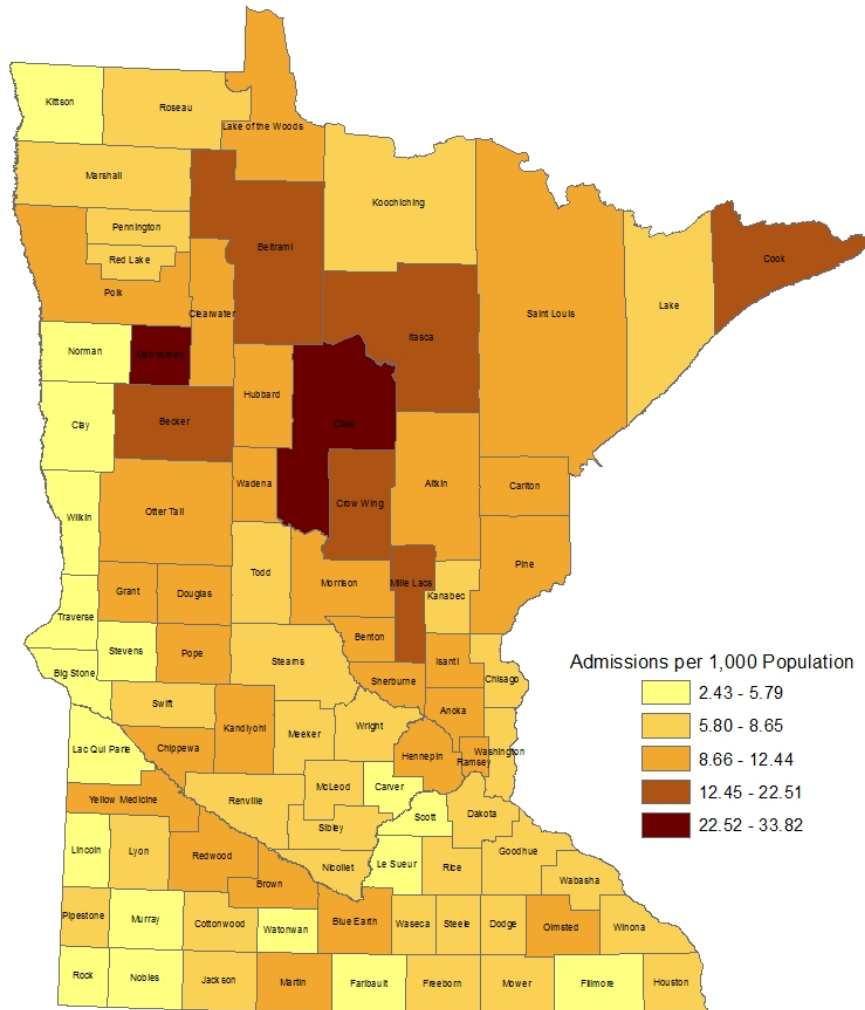
Arrests by Drug Type	
Cocaine	309
Crack	52
GHB	5
Hashish	192
Heroin	392
Khat	5
LSD	26
Marijuana	989
MDMA (ecstasy)	31
MDMA (mali)	11
Meth	2,365
Morphine	9
Mushrooms	33
Opium	6
PCP	0
Prescription Drugs	755
Synthetic - Cathinone	11
Synthetic - Cannabinoid	21
Unkown	40

From the dark side....

Seizures				
Drugs Seized & Purchased	Seized	Purchased	Methamphetamine	
Cocaine	17,112.03	772.14	Meth Lab Seizures	13
Crack	587.83	53.91	Meth Labs w/minors	4
GHB	709.00	0.00	Number of Children	33
Hashish	15,688.22	65.18	Guns Seized	
Heroin	4,950.23	1,029.78	# Seized (Drug)	846
Khat	5,095.50	198.10	# Seized (Non-Drug)	262
LSD	1,783.70	275.00		
Marijuana	994,535.59	4,634.92		
MDMA (ecstasy)	2,259.10	28.00		
MDMA (mali)	589.41	4.00		
Meth	222,032.77	15,582.05		
Morphine	29.00	0.00		
Mushrooms	758.92	66.50		
Opium	4.50	0.00		
PCP	81.00	0.00		
Prescription Drugs	58,603.60	2,121.50		
Synthetic- Cathinone	280.50	10.00		
Synthetic- Cannabinoid	2,573.41	108.50		
Unknown Drug	6,142.28	150.38		

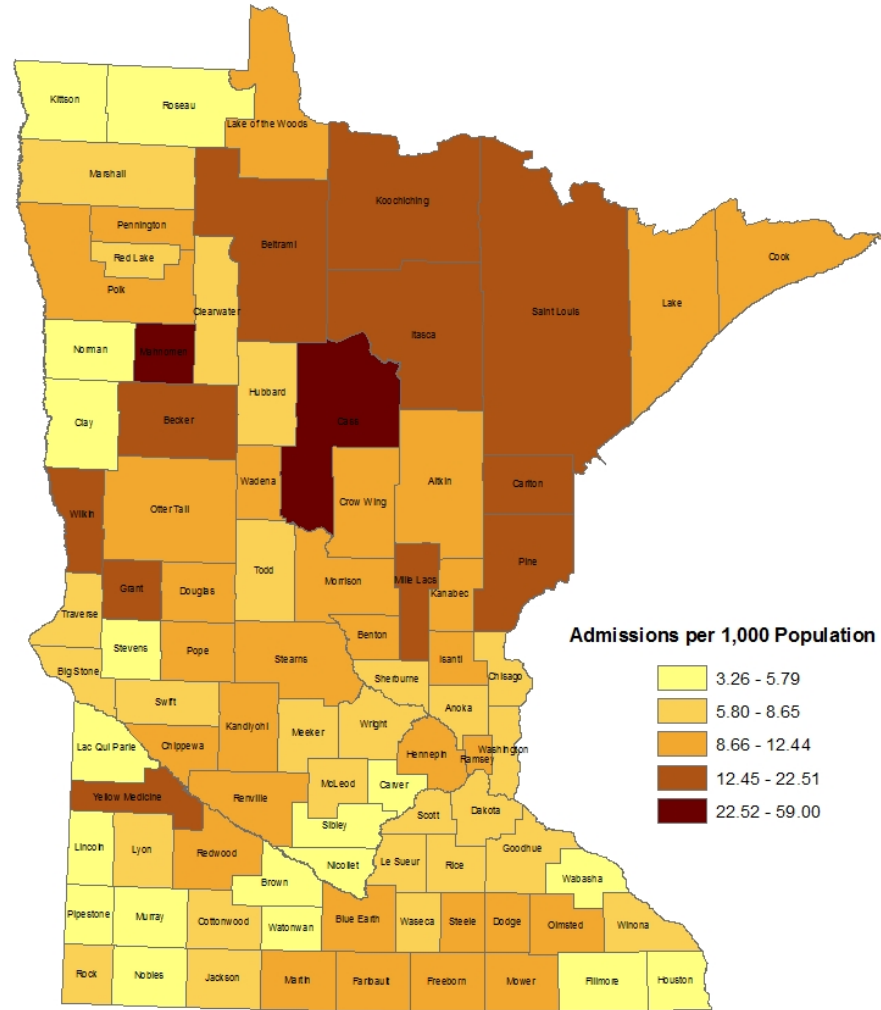
Expressed in grams

CY2007 Substance Use Disorder Treatment Admissions by County of Residence



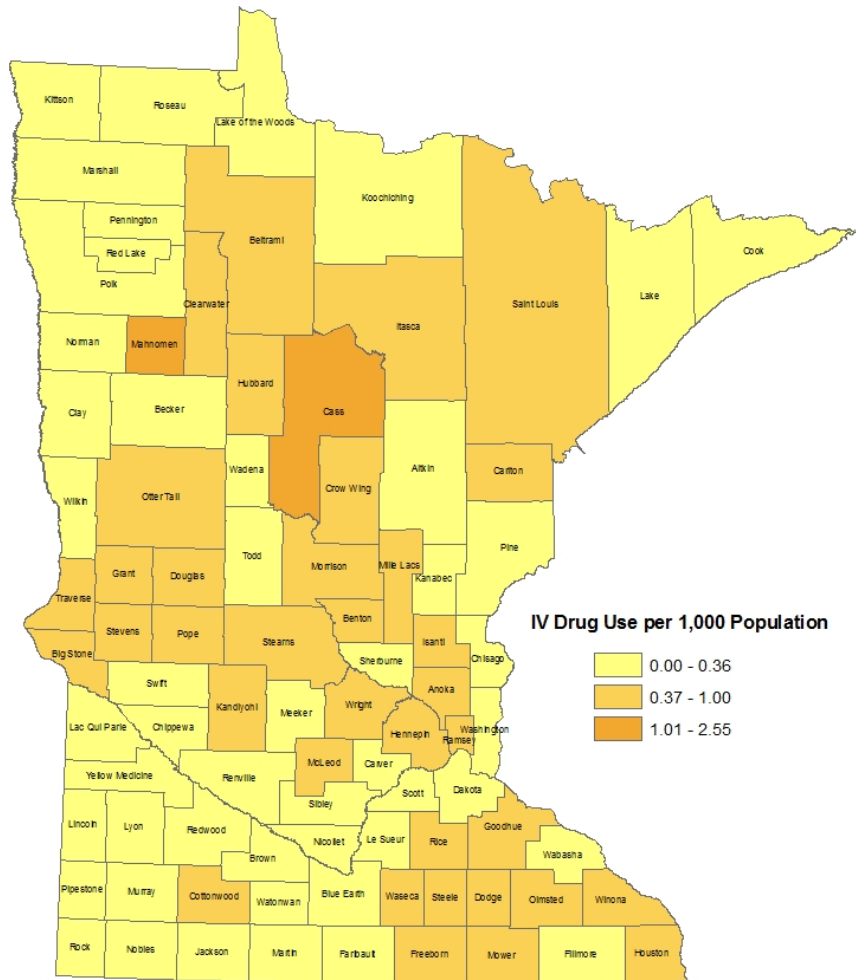
Source: Minnesota Department of Human Services, ADAD, DAANES (5/18/2015)

CY2015 Substance Use Disorder Treatment Admissions by County of Residence



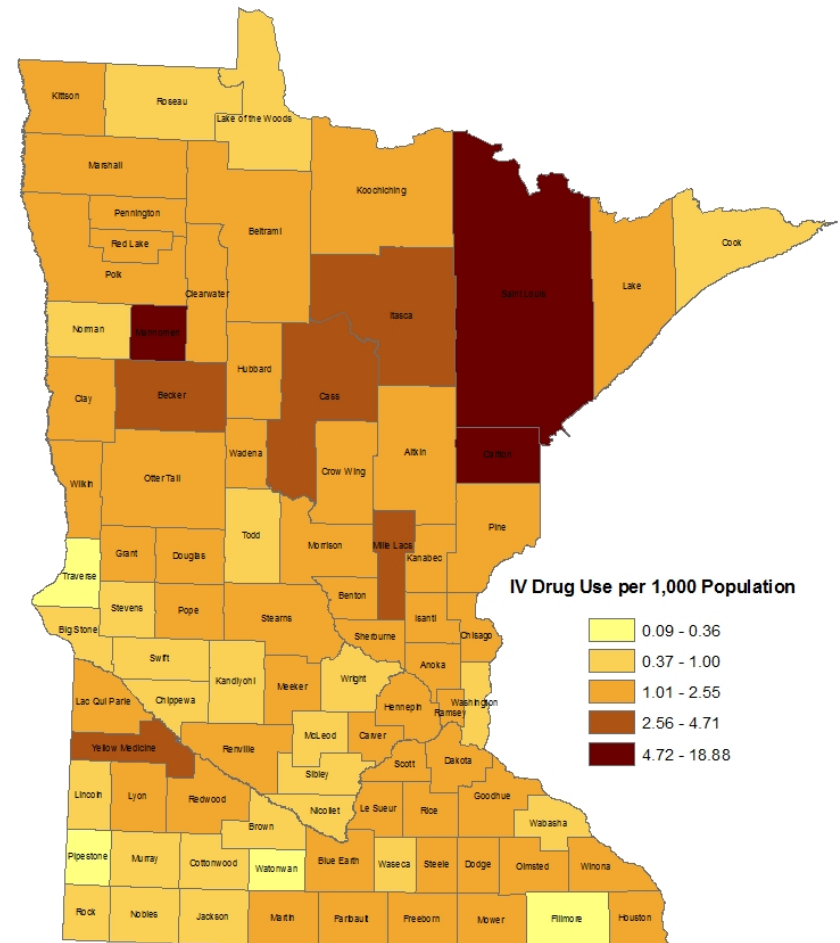
Source: Minnesota Department of Human Services, ADAD, DAANES (5/9/2016)

CY2007 Clients Indicating IV Drug Use in the Past 6 Months



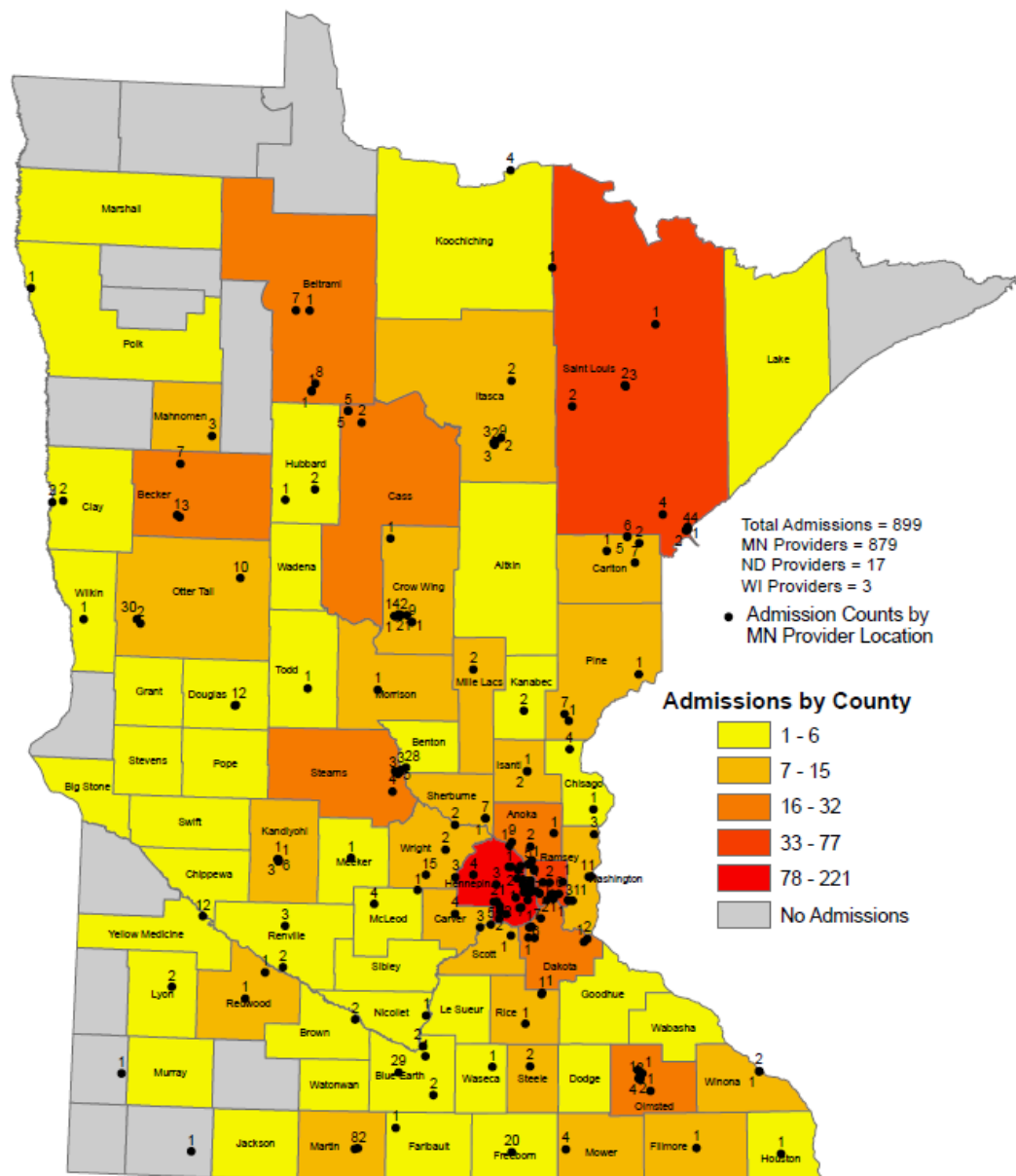
Source: Minnesota Department of Human Services, ADAD, DAANES (6/2/2016)

CY2015 Clients Indicating IV Drug Use in the Past 6 Months

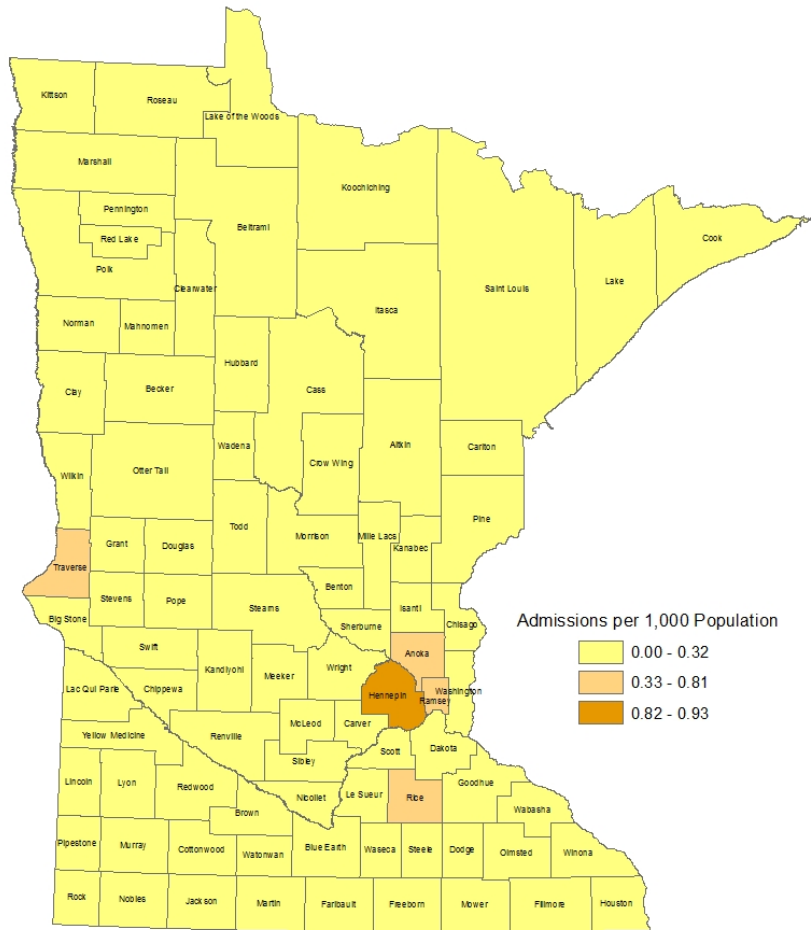


Source: Minnesota Department of Human Services, ADAD, DAANES (6/2/2016)

CY2014 Counts of Substance Use Disorders Admissions for Women who are Pregnant at Admission by County of Residence and Provider Locations

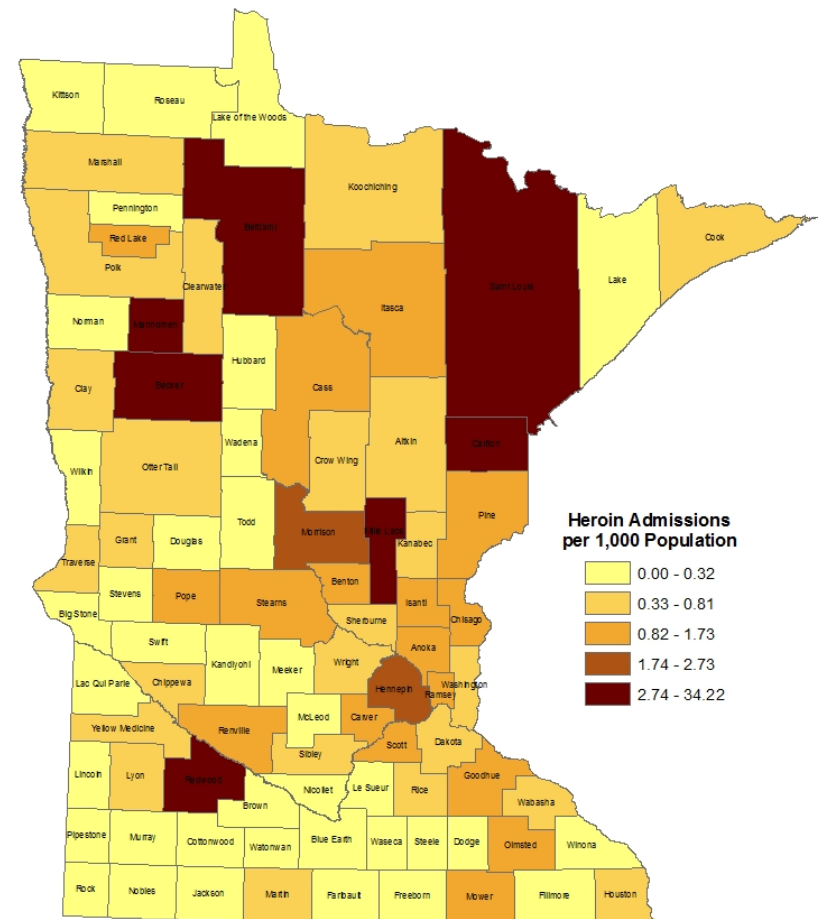


**CY2007 Heroin SUD Treatment Admissions
by County of Residence**



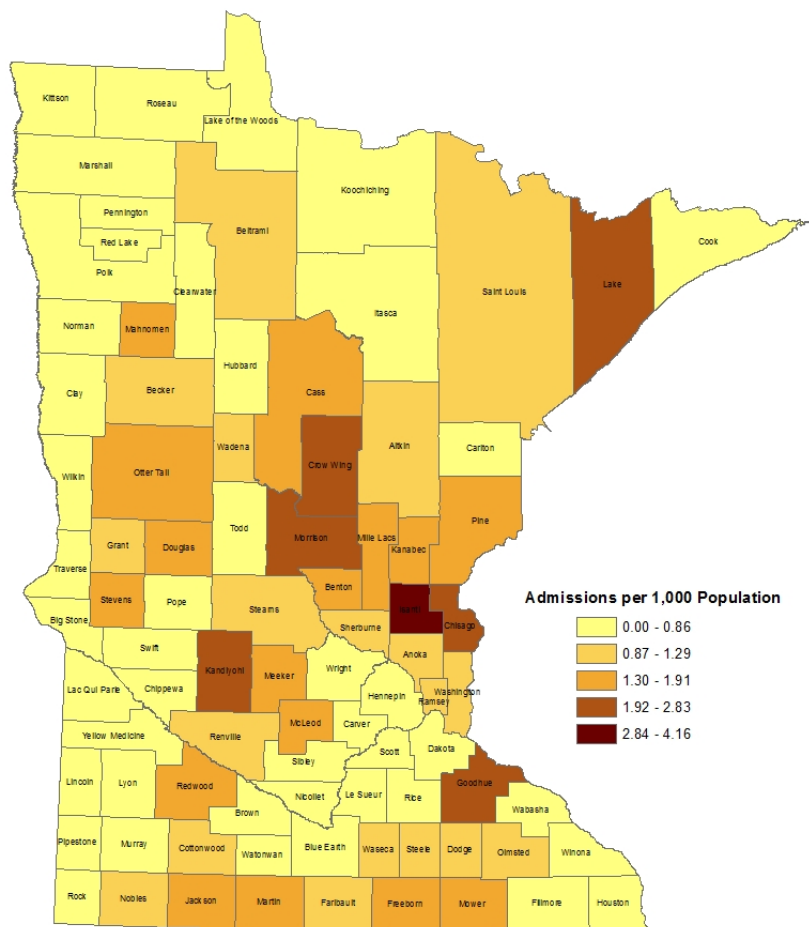
Source: Minnesota Department of Human Services, ADAD, DAANES (5/14/2015)

**CY2016 Heroin Substance Use Disorder Treatment
Admissions by County of Residence**



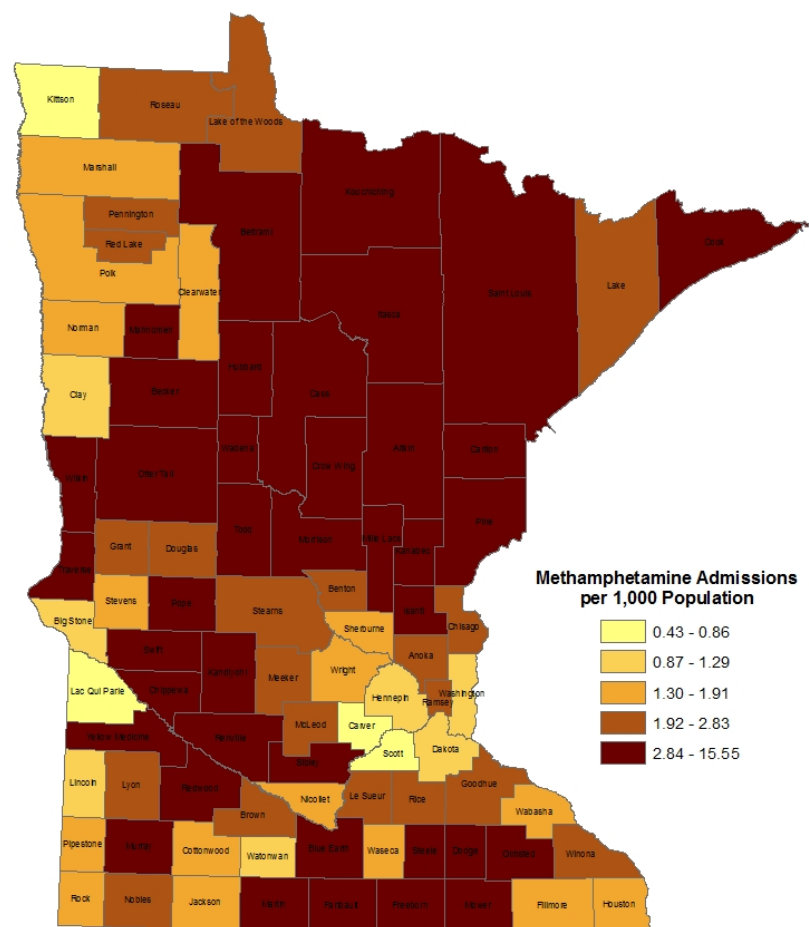
Source: Minnesota Department of Human Services, ADAD, DAANES (5/3/2017)

CY2007 Methamphetamine SUD Treatment Admissions by County of Residence



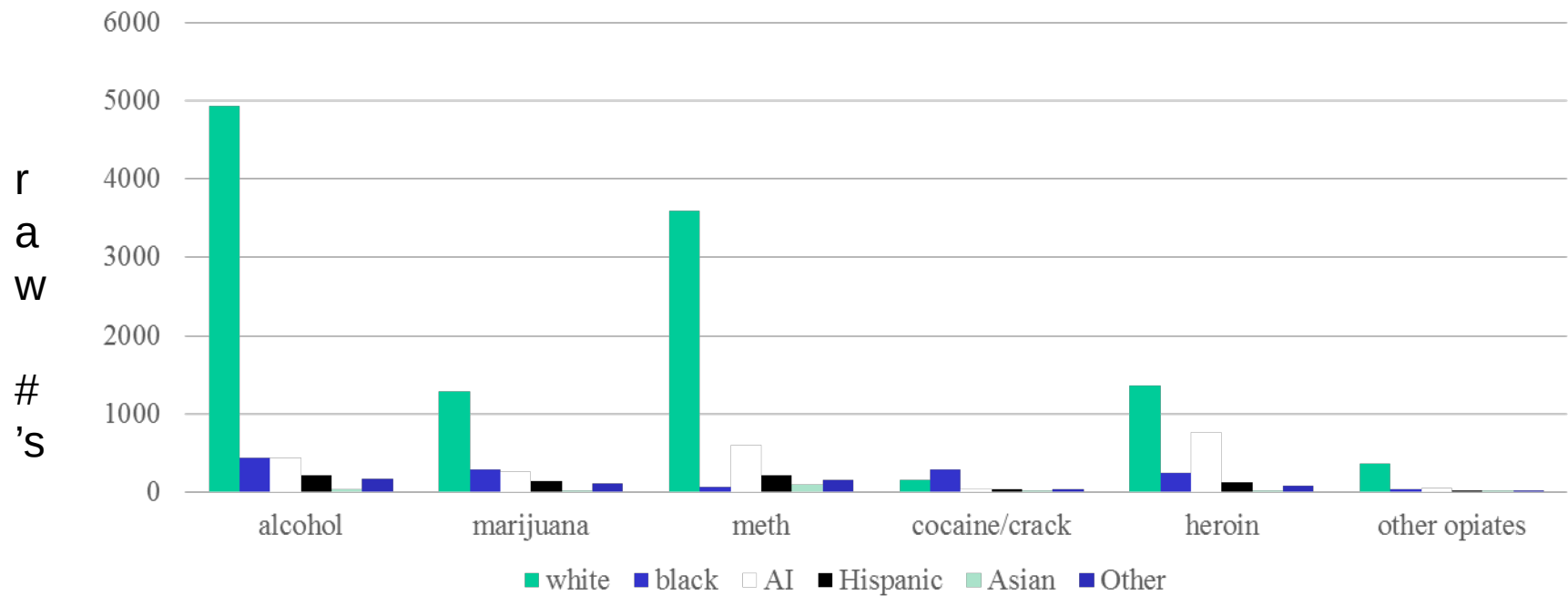
Source: Minnesota Department of Human Services, ADAD, DAANES (4/24/2015)

CY2016 Methamphetamine Substance Use Disorder Treatment Admissions by County of Residence



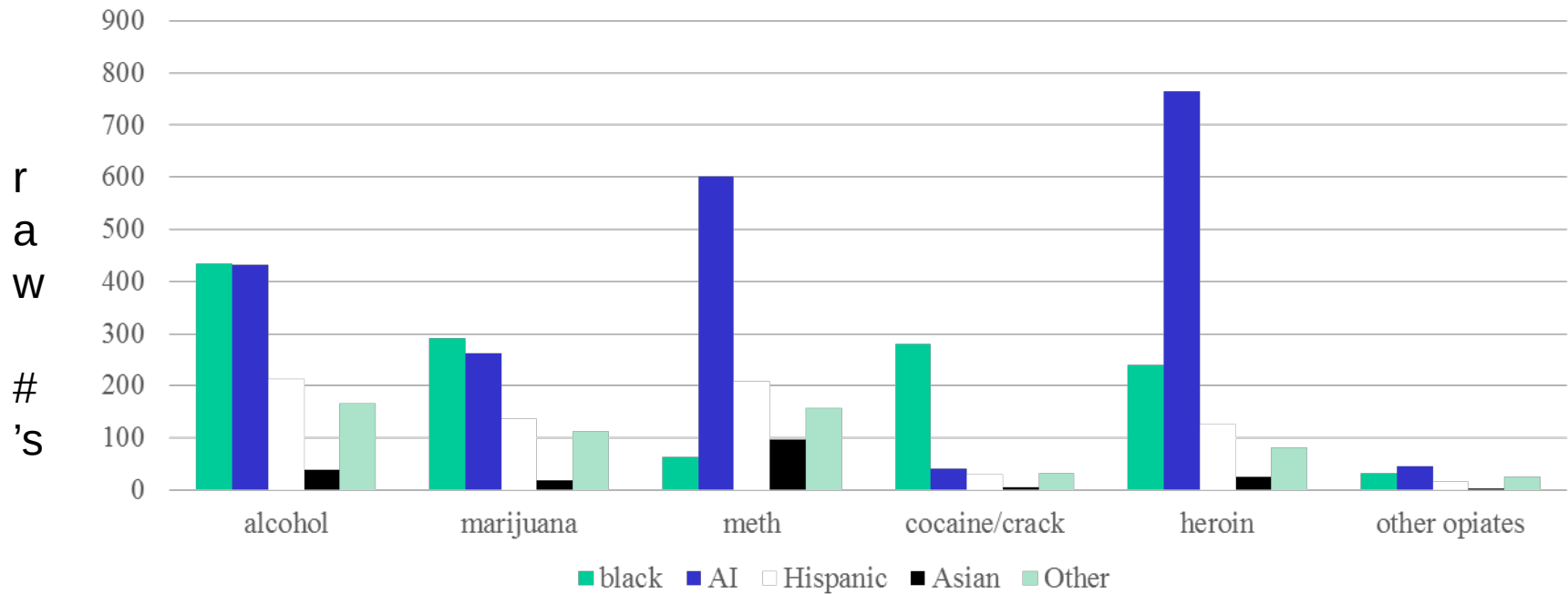
Source: Minnesota Department of Human Services, ADAD, DAANES (5/3/2017)

SUD Treatment Admissions for Females Primary Substance of Abuse by Race/Ethnicity in CY2016



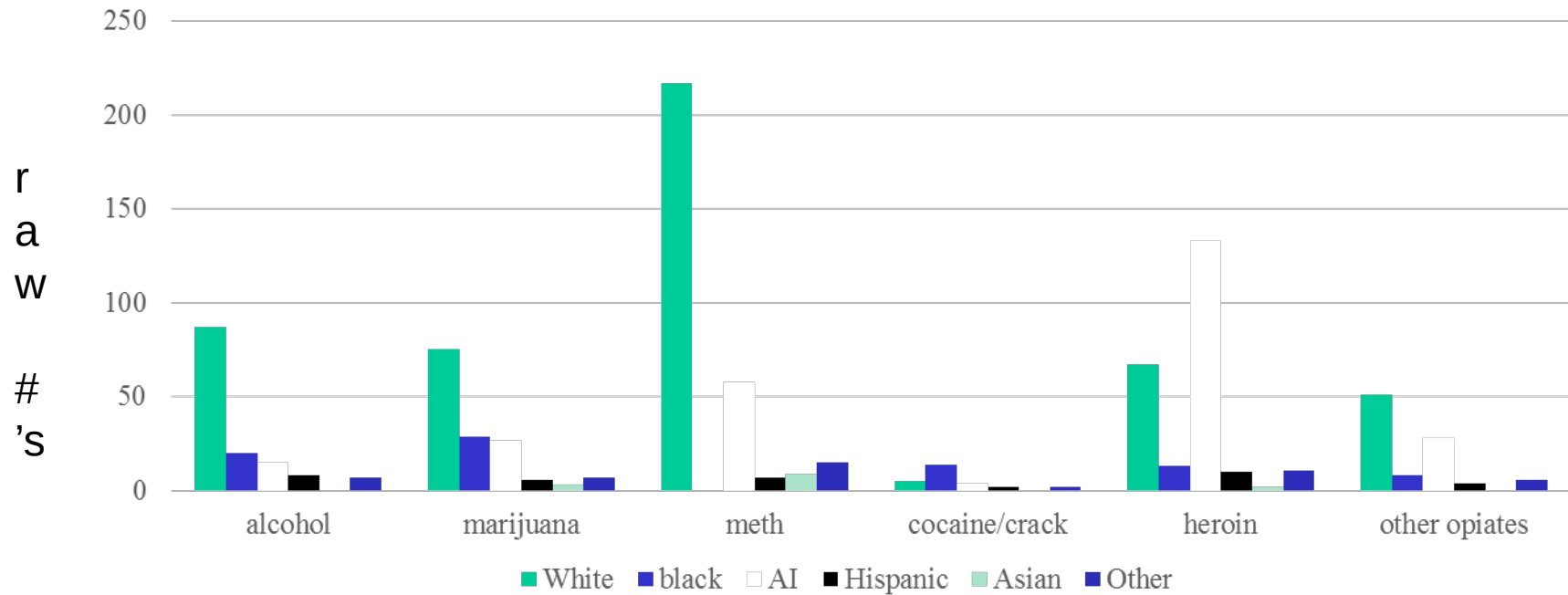
SOURCE: MN DHS, ADAD,
DAANES, 3/15/2017

SUD Treatment Admissions for Females
Primary Substance of Abuse by Race/Ethnicity in CY2016 w/o White



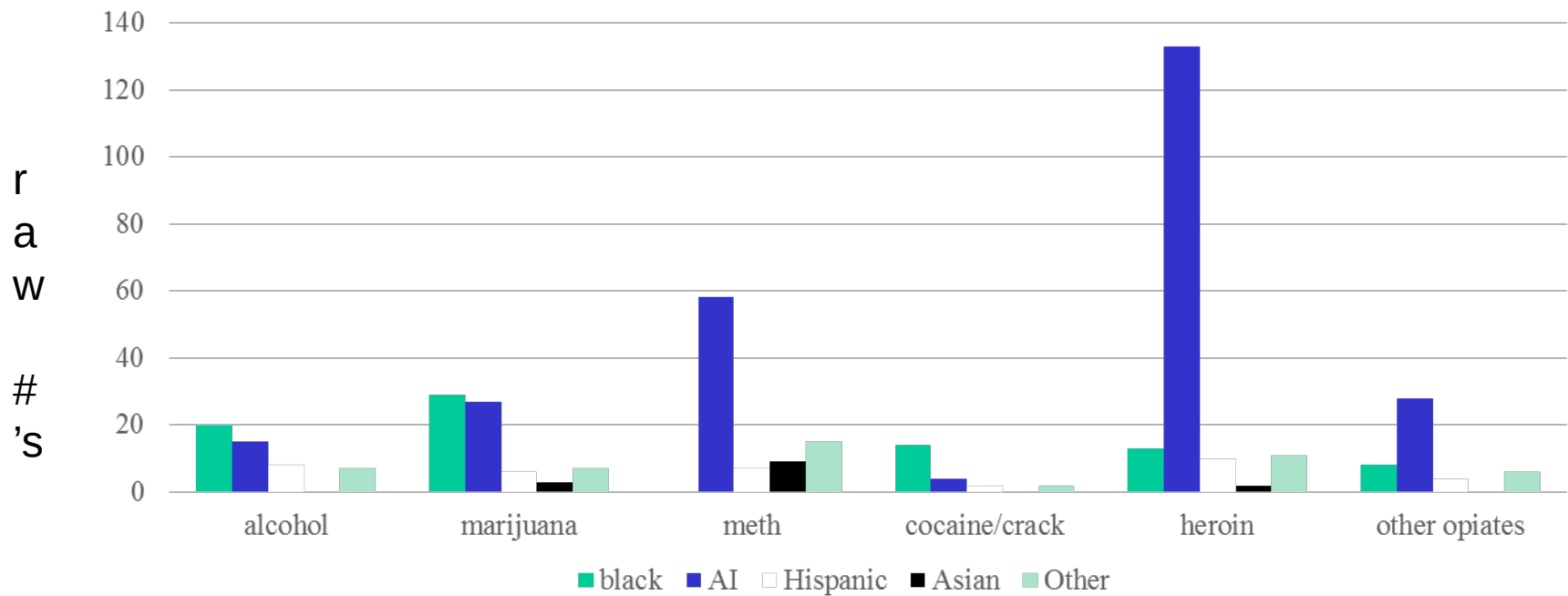
SOURCE: MN DHS, ADAD,
DAANES, 3/15/2017

SUD Treatment Admissions for Pregnant Females Primary Substance of Abuse by Race/Ethnicity in CY2016



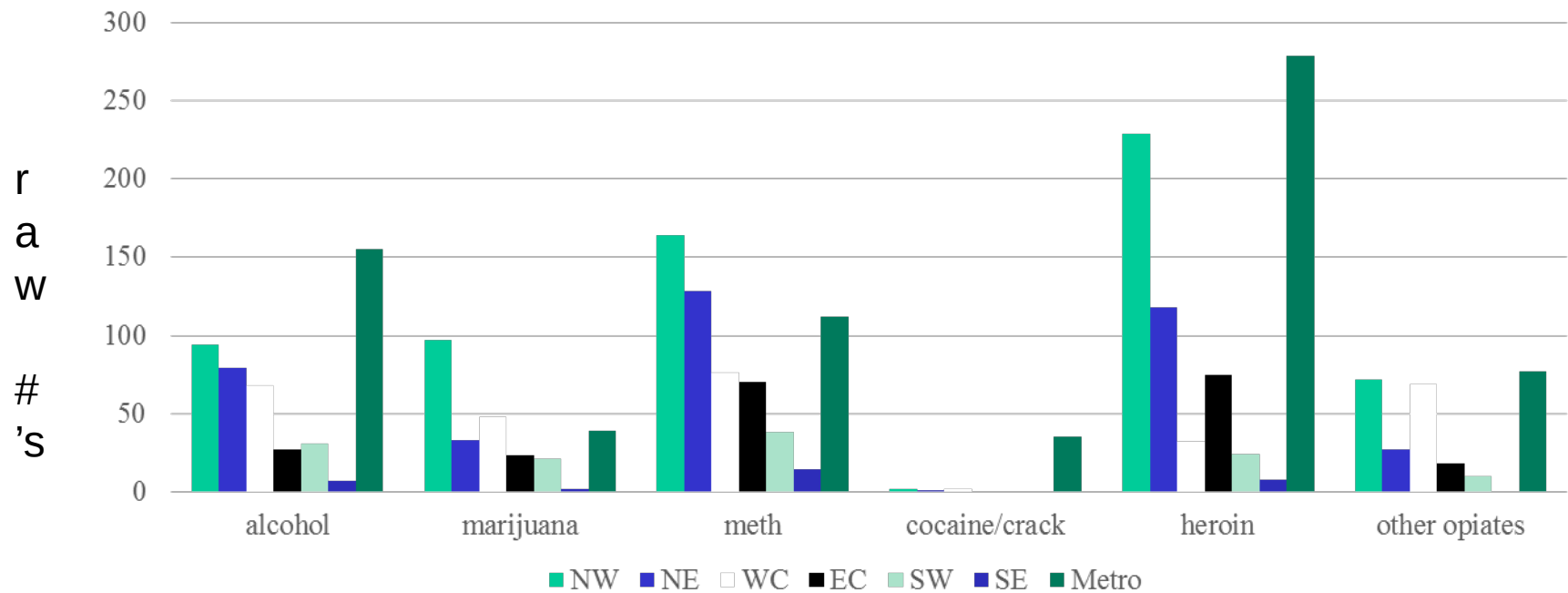
SOURCE: MN DHS, ADAD,
DAANES, 3/15/2017

SUD Treatment Admissions for Pregnant Females
Primary Substance of Abuse by Race/Ethnicity in CY2016 w/o White



SOURCE: MN DHS, ADAD,
DAANES, 3/15/2017

SUD Treatment Admissions for American Indian Females Primary Substance of Abuse by CD Planning Regions in CY2016

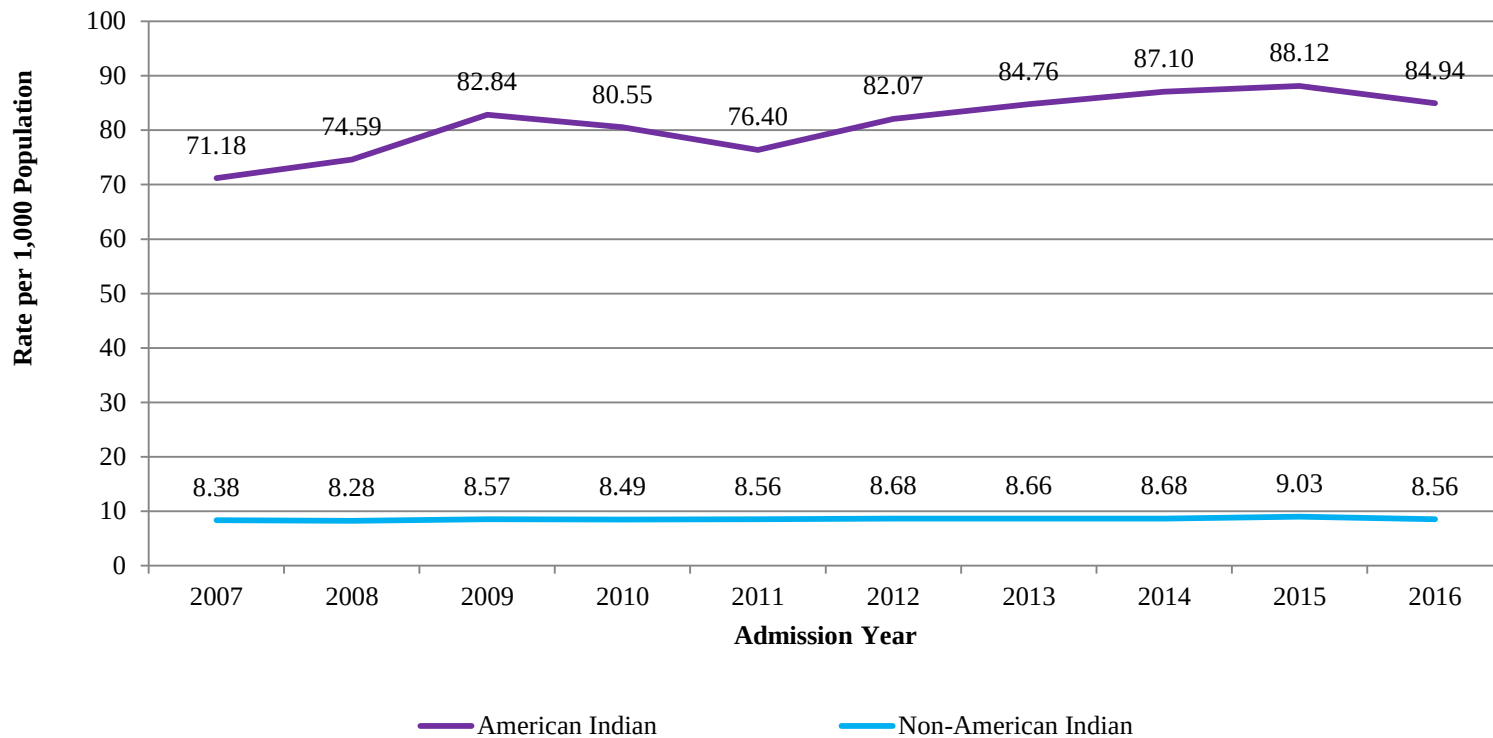


SOURCE: MN DHS, ADAD,
DAANES, 3/15/2017

Principles of Epidemiology in Public Health Practice, Third Edition
An Introduction to Applied Epidemiology and Biostatistics, Lesson, 1, Section
11:

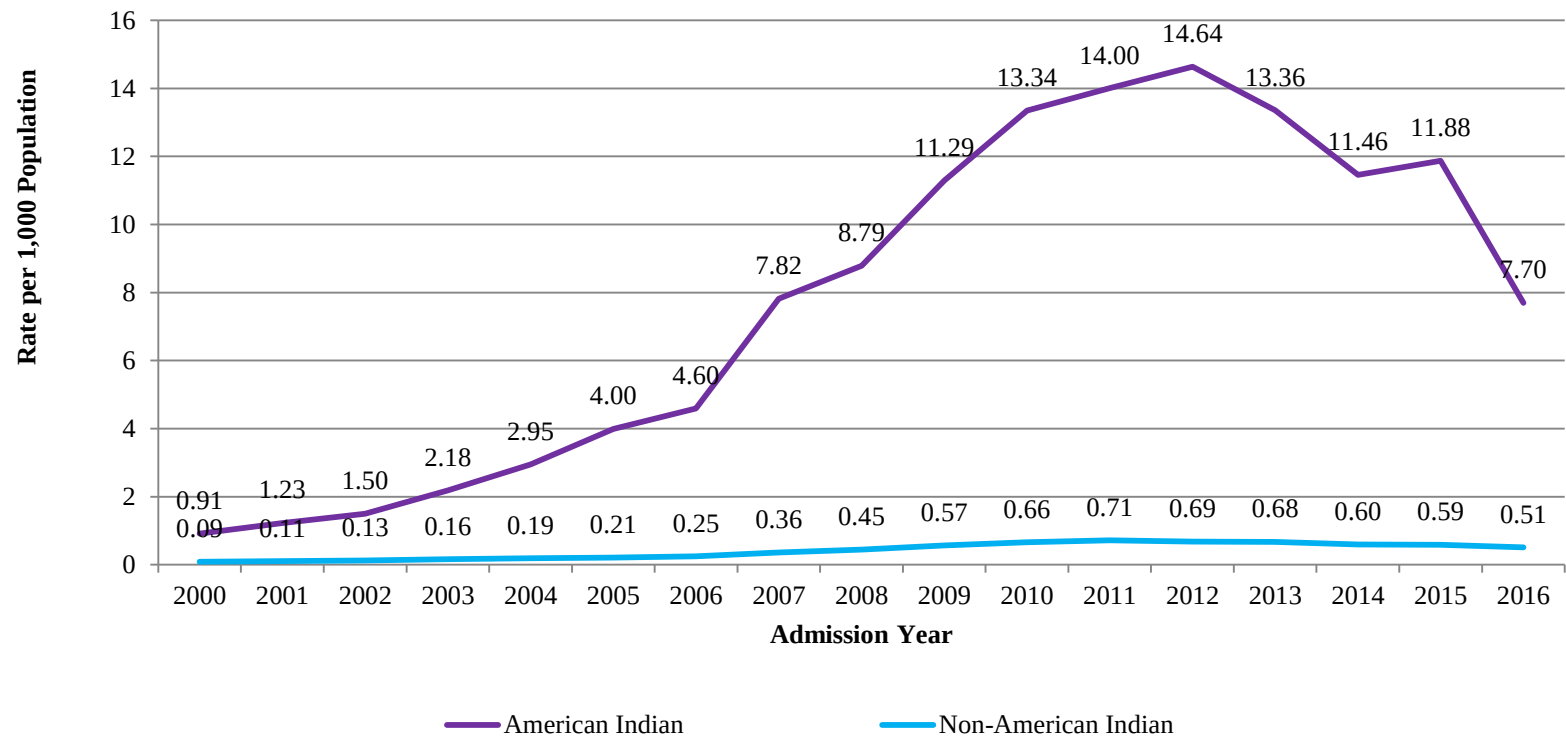
“Epidemic refers to an increase, often sudden, in the number of cases of a disease above what is normally expected in that population in that area.”

Chemical Dependency Treatment Rates for Minnesota Residents



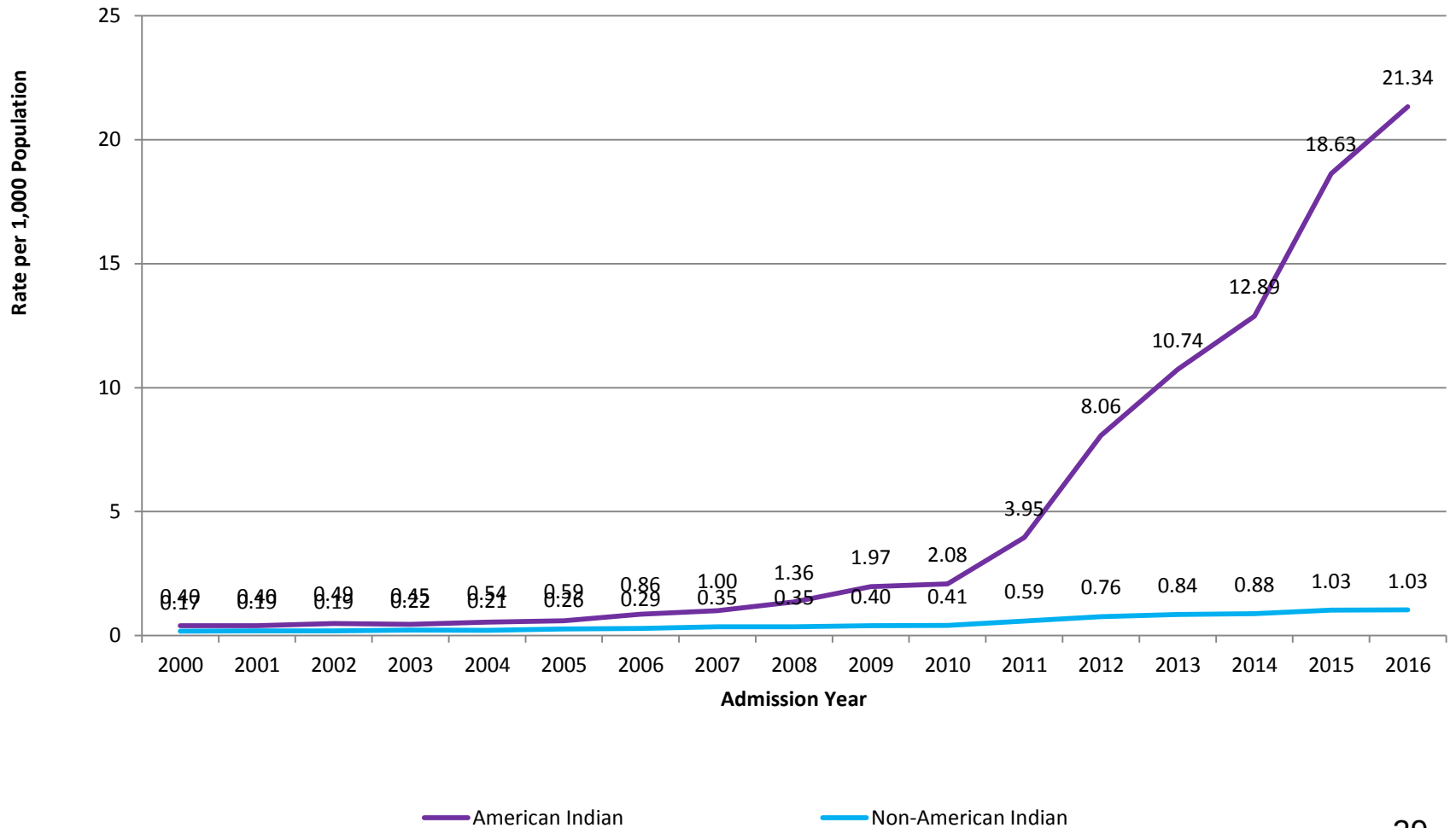
Minnesota Department of Human Services, ADAD, DAANES (4/3/2017)

Chemical Dependency Treatment Rates, Other Opiates, for Minnesota Residents

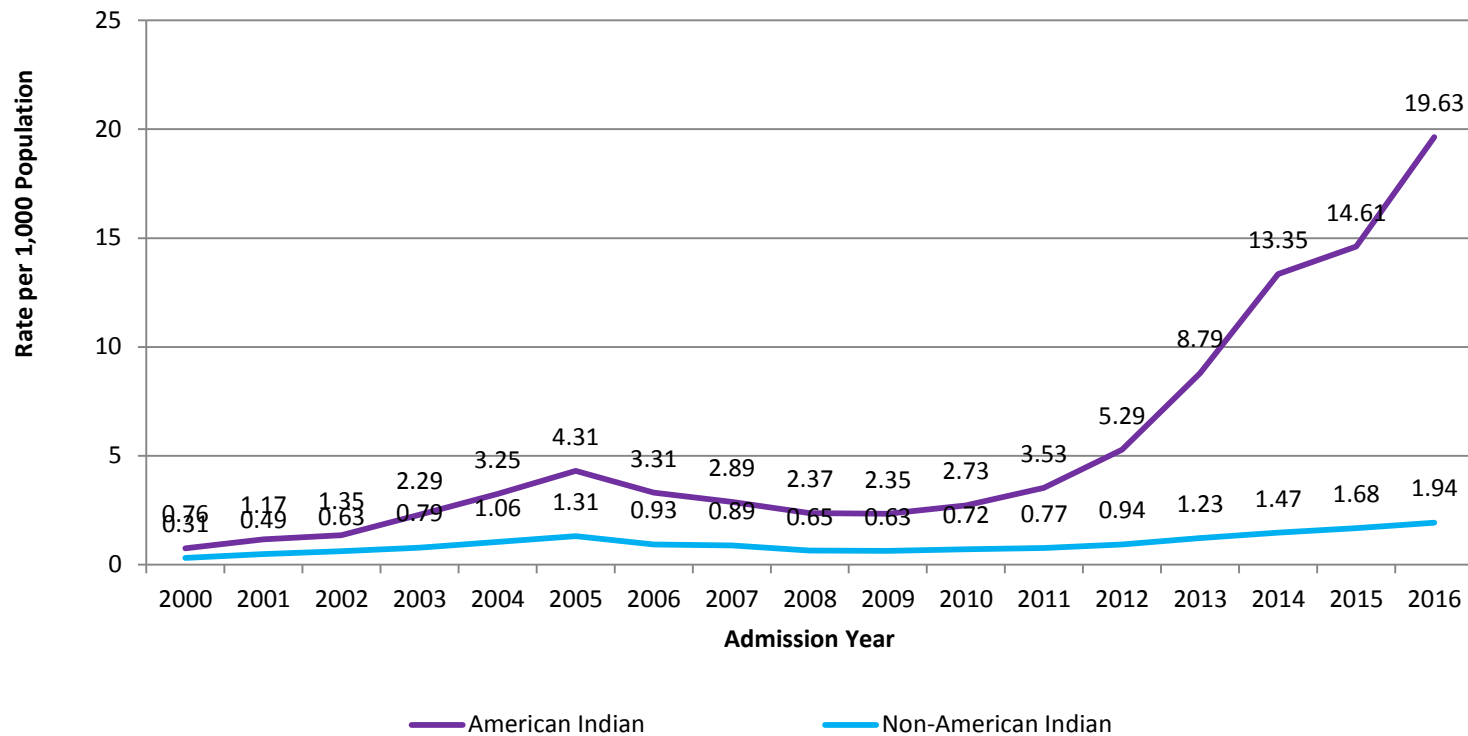


Minnesota Department of Human Services, ADAD, DAANES (4/3/2017)

Chemical Dependency Treatment Rates, Heroin, for Minnesota Residents

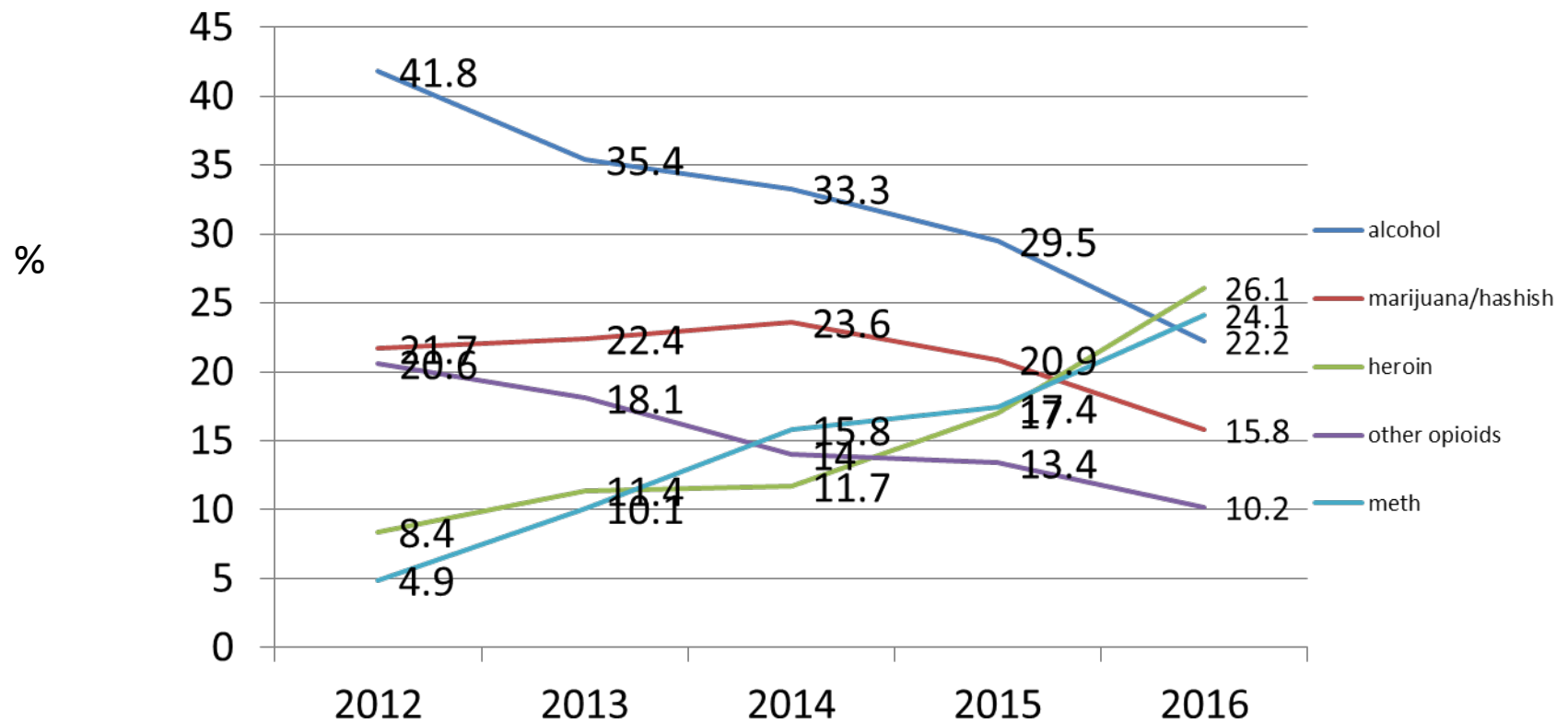


Chemical Dependency Treatment Rates Methamphetamine for Minnesota Residents



Minnesota Department of Human Services, ADAD, DAANES (4/3/2017)

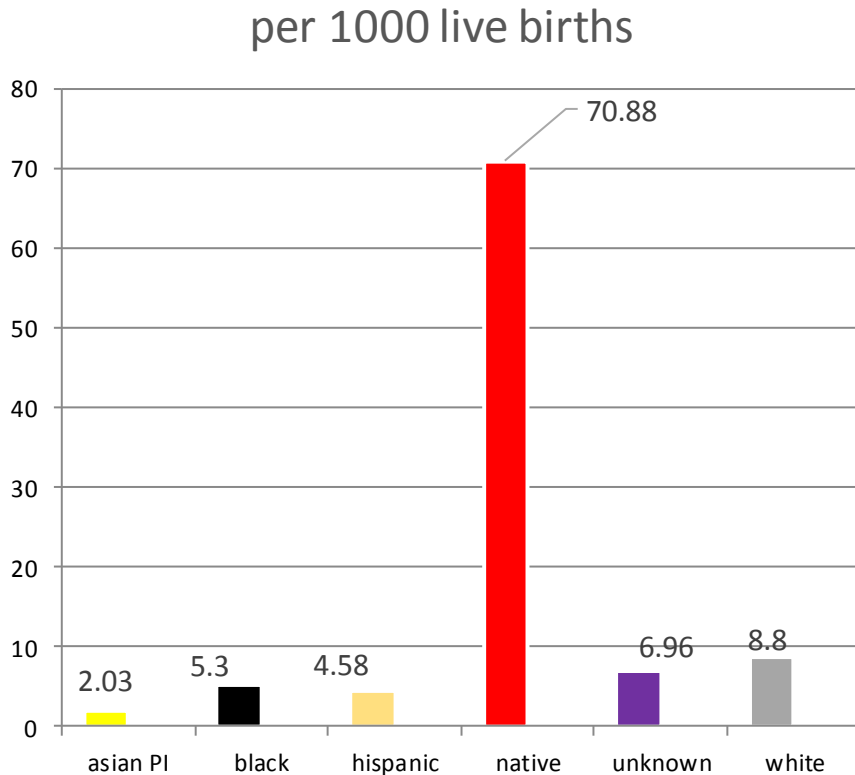
Admissions to Chemical Dependency Treatment by Primary Substance, by CY, by %, for Clients Residing on MN Reservations



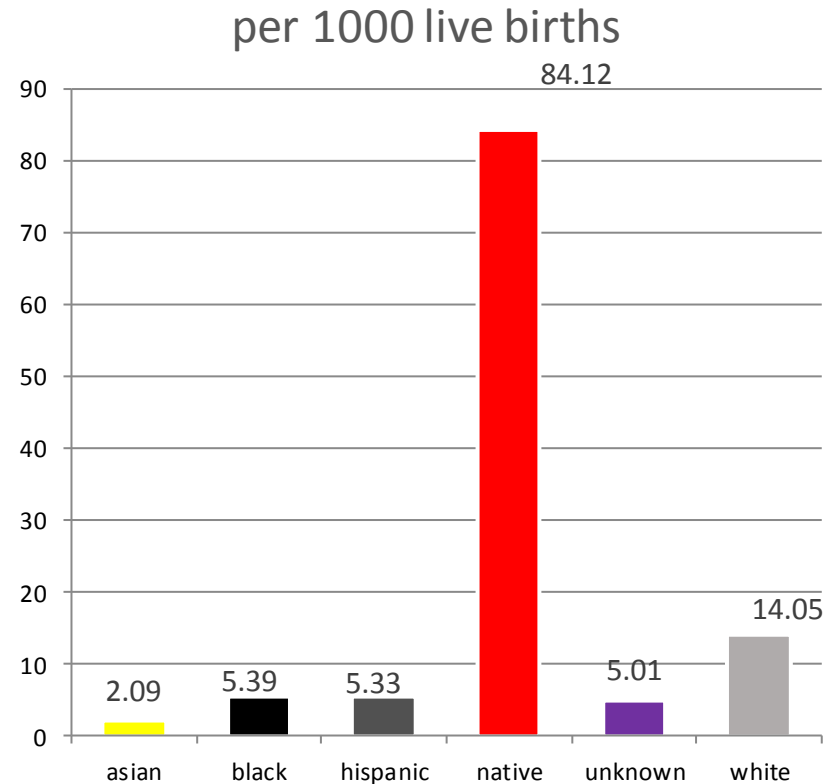
SOURCE: HRQ, May 2017

MN Neonatal Abstinence Syndrome

Minnesota Health Care Program, State NAS Prevalence per 1,000 Live Birth, by Race/Ethnicity for 2010-2016



Minnesota Health Care Program, Hennepin and Ramsey County Combined NAS Prevalence per 1,000 Live Birth, by Race/Ethnicity for 2010-2016



SOURCE: Claims data, 2010-2016 Minnesota Health Care Programs

What we give our children, we give
our grandchildren.....



What we teach our children, we
teach our grandchildren.....

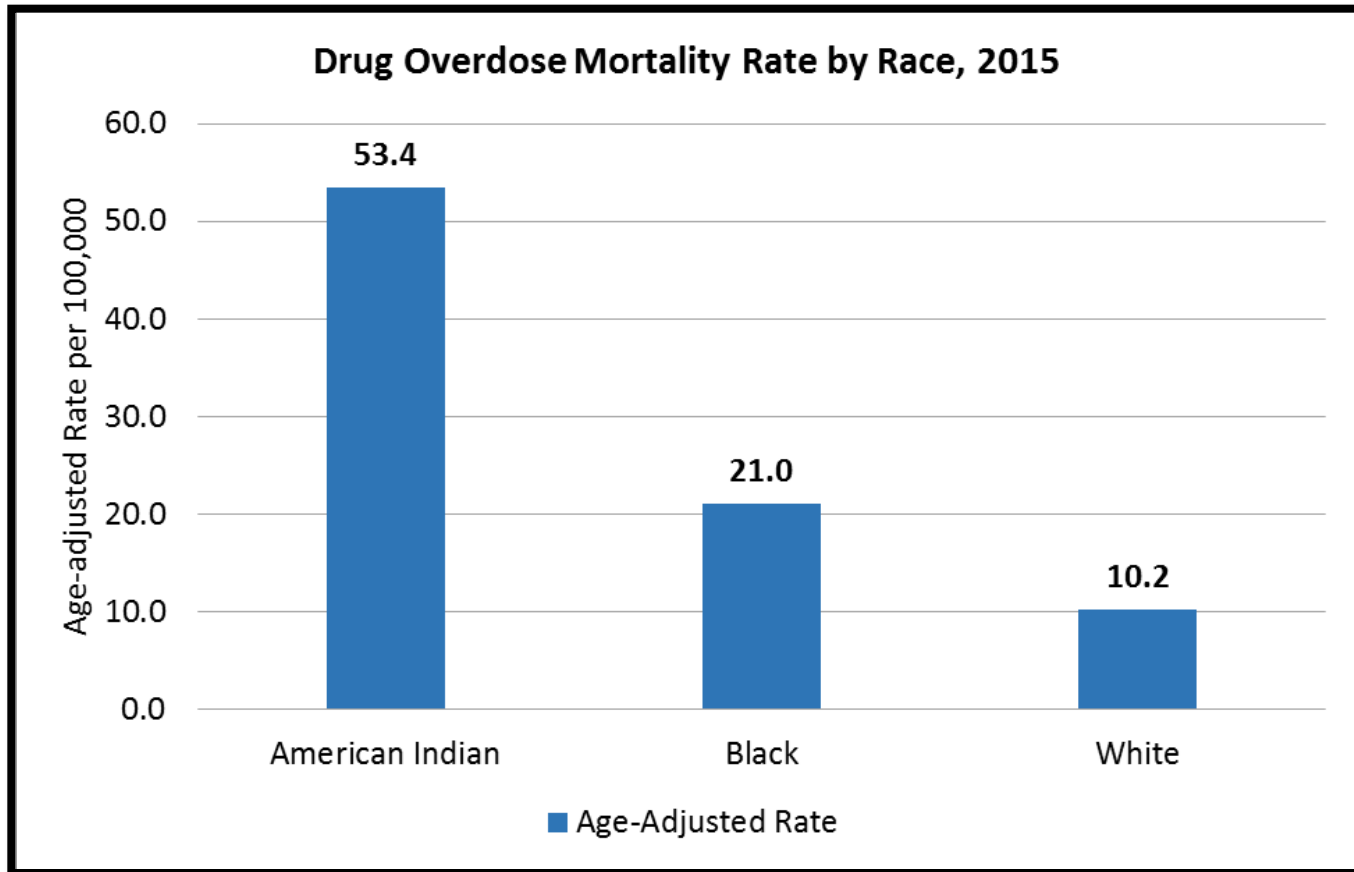




Minnesota Ranks Among the Lowest for Drug Overdose Mortality Rates

Rank	State	Deaths	Age-adjusted Rate (per 100,000)
...	...	...	...
44	California	4,659	11.3
45	Hawaii	169	11.3
46	MINNESOTA	583	10.6
47	Iowa	309	10.3
48	Texas	2,588	9.4
49	North Dakota	61	8.6
50	South Dakota	65	8.4
51	Nebraska	126	6.9

State Rate Masks Significant Racial Disparities



10 adult MCF....

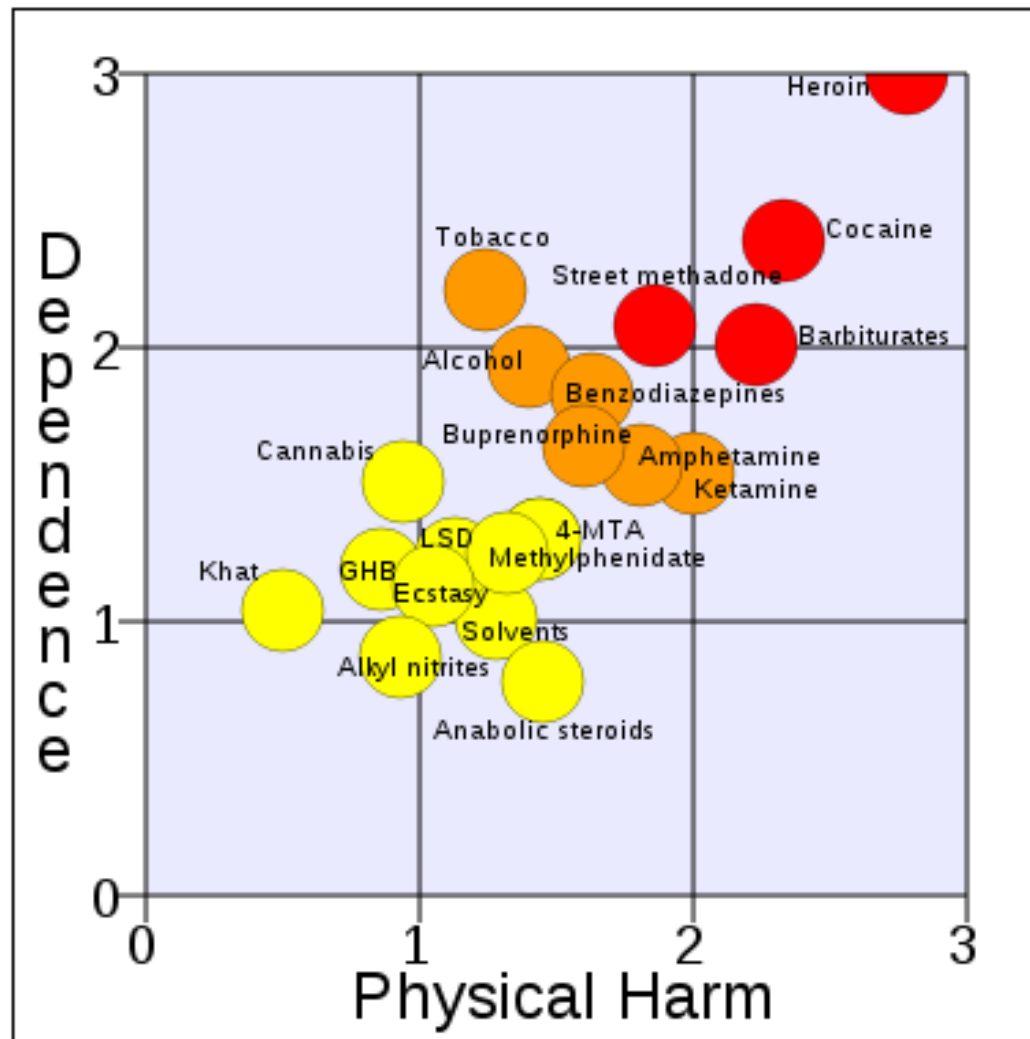


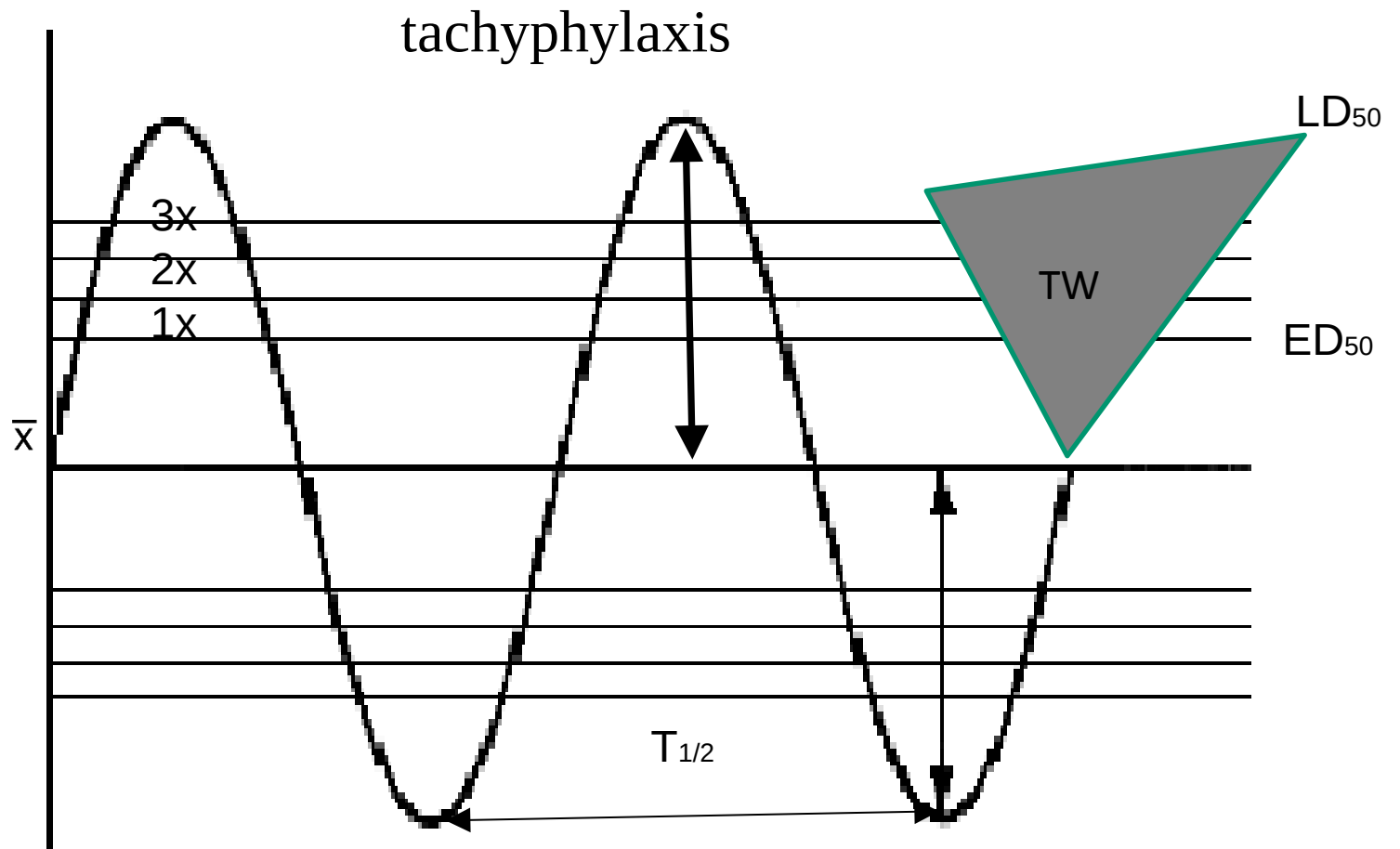
Minnesota Department of Corrections Minnesota Correctional Facility - Shakopee Inmate Profile

8/10/2017

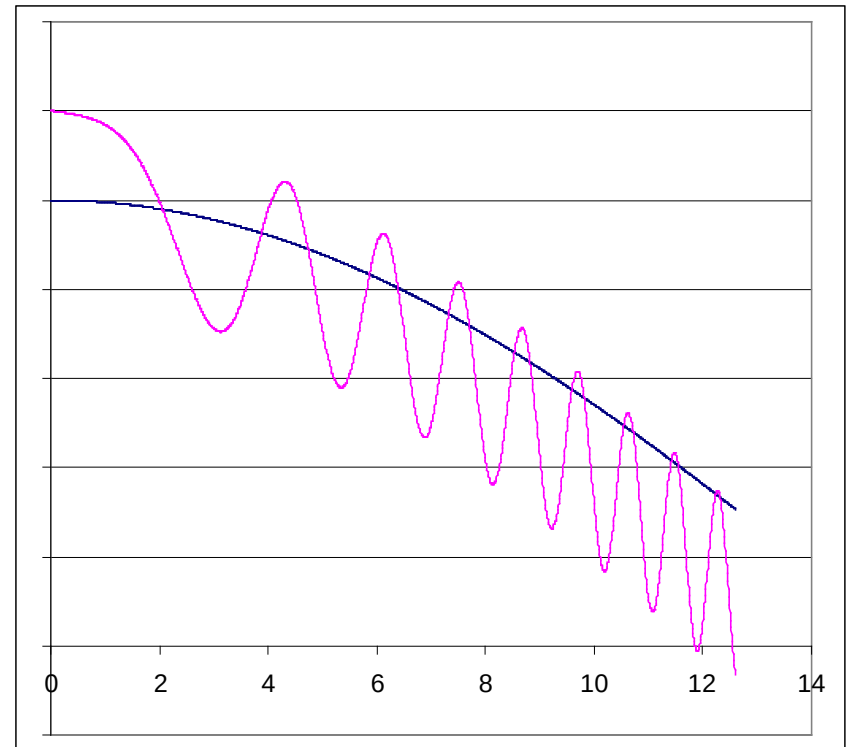
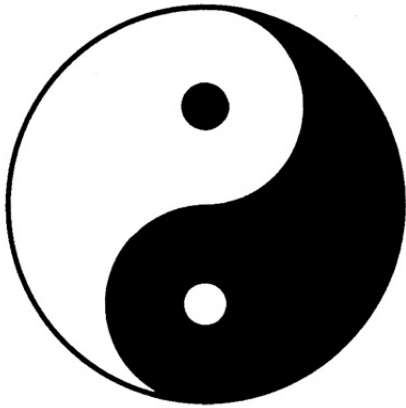
A total of 660 adult offenders are under the Case Responsibility of Minnesota Correctional Facility - Shakopee with a total of 638 adult offenders currently on-site at this facility.

Age	Count	Percentage	Commitment Type	Count	Percentage
Under 18	0	0%	MN Commit	656	99%
18-20	13	2%	Other MN Interim Orders	3	<1%
21-25	82	12%	Other Agreement/Exchange	1	<1%
26-35	276	42%	*Of the above		
36-45	177	27%	Number of offenders with Release Revocation		44
46-55	85	13%	Number of offenders with Release Revocation with new Charge		15
56-65	23	3%	Number of offenders with Release Rescind		0
Over 65	4	1%	Number of offenders with Release Release Interim		6
Youngest Age	18		Sentence Information		
Oldest Age	83		There are 640 adult offenders who have an active sentence on file. Excluded are offenders who have a MN Interim Order of Commitment(offenders who have been convicted but not yet sentenced), cases awaiting completion of the data entry process for new sentences, the sentence was appealed with the commit upheld or the offender was an Agreement/Exchange. Offenders under this facility's case responsibility are serving 984 sentences for an average of 1.5 sentences per offender.		
Average Age	35				
Race	Count	Percentage			
White	399	60%			
American Indian or Alaskan Native	137	21%			
Black	106	16%			
Asian or Pacific Islander	17	3%			
Unknown	1	<1%			





Intoxication/Withdrawal



“Speedballing”

“Your livin' harder, yeah,
harder than you know
Tell me, how fast,
Can ya burn?,
And how far can ya go?”

-Zakk Wylde “What You’re
Look’n For”



Heroin

- ROA: Inhalation, transmucosal, IV, IM, insufflation, rectal,
- Bioavailability: 44-61% (inhaled)
- Metabolism: Hepatic
- T_{1/2}: ,10 minutes; compared to morphine, 2-3 hours
- The mean excretion half-life for total morphine (free and conjugated) in the urine after heroin is smoked or administered intravenously is slightly more than 3 hours.

- Inhalation of heated heroin vapor is associated with the occurrence of a symmetric spongiform degeneration of white matter (leukoencephalopathy) in the CNS characterized by neurobehavioral changes. It is not known whether this is caused by heating adulterants in heroin or by pyrolysis products of heroin

black tar heroin



“China” white



Tradition is prevention, culture is
treatment



Canku luta omani

