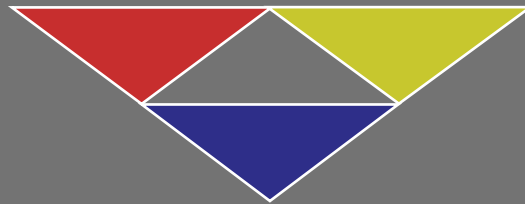


August 2018

Missouri Department of Mental Health

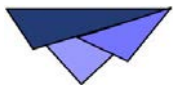
Quarterly Performance Measures



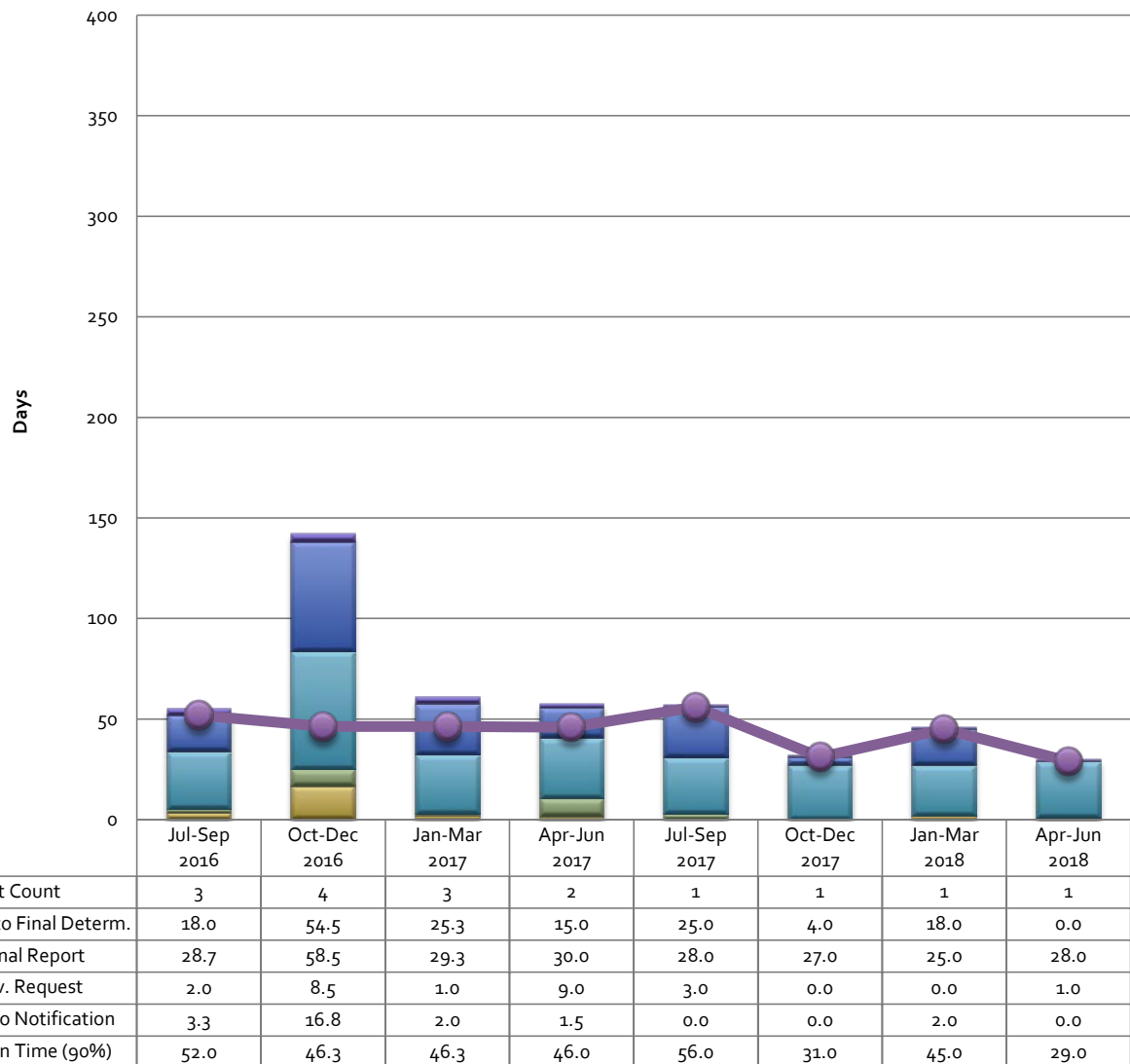


Division of Behavioral Health

Substance Use Services

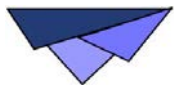


Substance Use Treatment Community Investigations Timelines

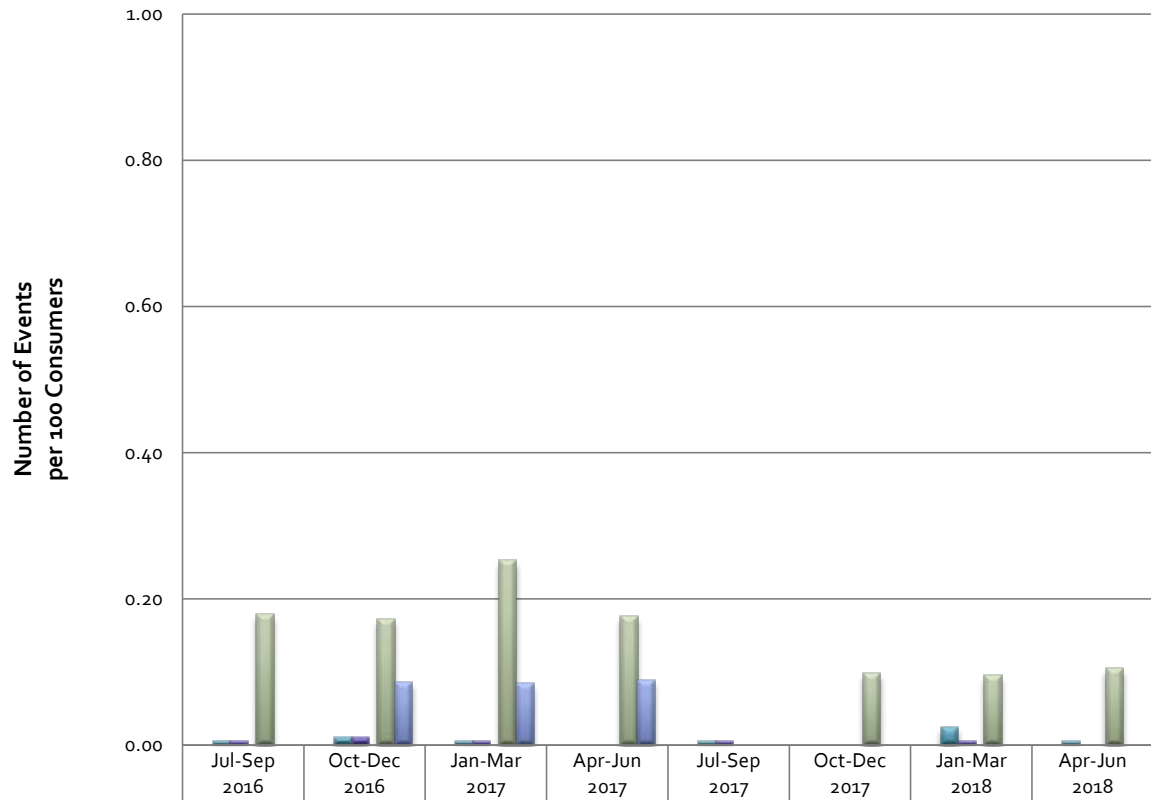


NOTE: Timelines are divided into 4 distinct sections or stages of an investigation. The bars include average times for all final determinations made in each quarter, whereas the purple line includes 90% of all cases in order to show typical time-lines excluding the top 10% outliers.

Significance: Community investigations for substance use treatment are relatively few.



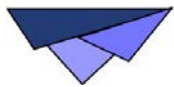
Substance Use Treatment Abuse/Neglect Investigations



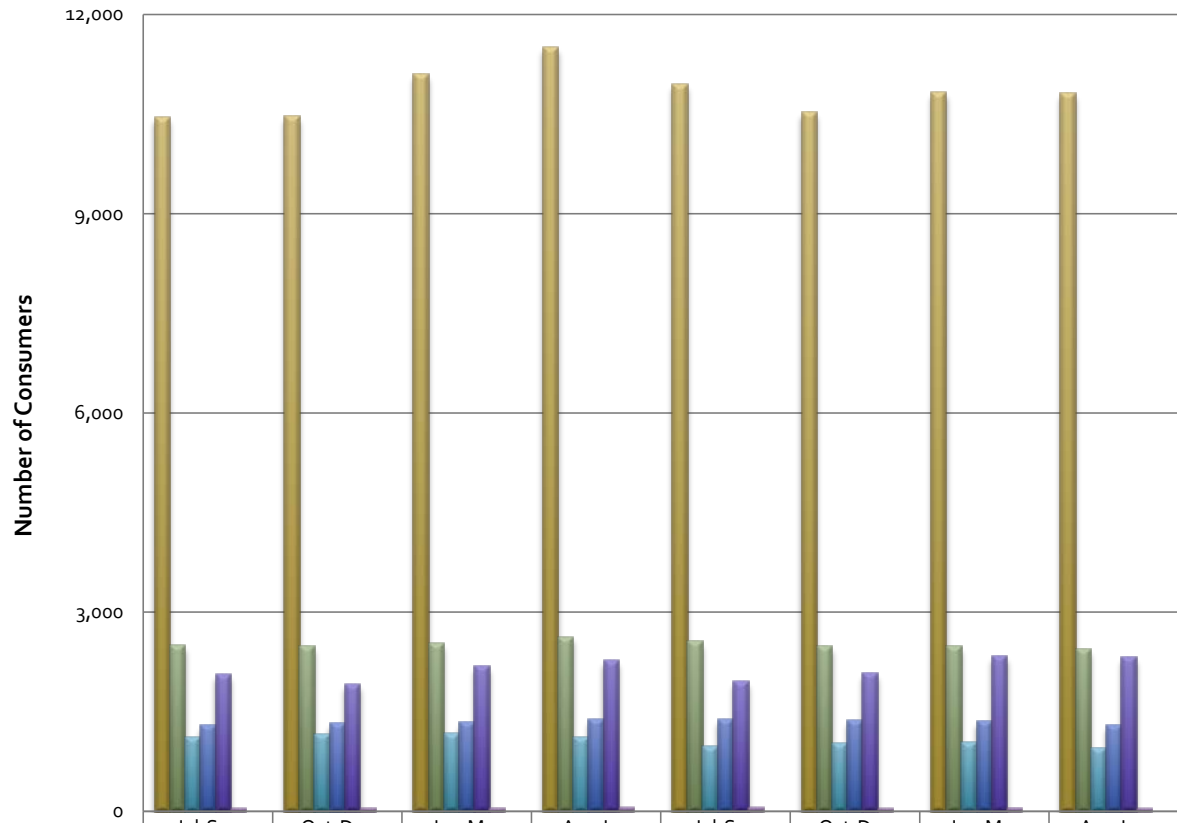
	Jul-Sep 2016	Oct-Dec 2016	Jan-Mar 2017	Apr-Jun 2017	Jul-Sep 2017	Oct-Dec 2017	Jan-Mar 2018	Apr-Jun 2018
# Adult Consumers	19,495	19,115	20,048	20,688	19,751	19,099	19,919	19,805
Adult A/N Investigations Completed	1	2	1	0	1	0	5	1
Adult A/N Investigations Rate	0.005	0.010	0.005	0.000	0.005	0.000	0.025	0.005
Adult A/N Substantiated	1	2	1	0	1	0	1	0
Adult A/N Substantiation Rate	0.005	0.010	0.005	0.000	0.005	0.000	0.005	0.000
# Youth Consumers	1,118	1,162	1,184	1,130	995	1,019	1,048	953
Youth A/N Investigations Completed	2	2	3	2	0	1	1	1
Youth A/N Investigations Rate	0.179	0.172	0.253	0.177	0.000	0.098	0.095	0.105
Youth A/N Substantiated	0	1	1	1	0	0	0	0
Youth A/N Substantiation Rate	0.000	0.086	0.084	0.088	0.000	0.000	0.000	0.000

NOTE: The above statistics do NOT include substantiations with only Neglect 2 or Verbal Abuse findings. Investigations and substantiations are a count of the number of events, not the number of alleged perpetrators or victims. Also, Investigation and substantiation counts reflect cases finalized in the quarter.

Significance: Substance use treatment has relatively few abuse/neglect investigations and substantiations each quarter.



Substance Use Treatment Consumers Served By Program

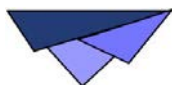


	Jul-Sep 2016	Oct-Dec 2016	Jan-Mar 2017	Apr-Jun 2017	Jul-Sep 2017	Oct-Dec 2017	Jan-Mar 2018	Apr-Jun 2018
CSTAR Gen Adult	10,452	10,469	11,102	11,505	10,955	10,526	10,837	10,810
CSTAR W&C	2,496	2,481	2,536	2,632	2,557	2,481	2,482	2,449
CSTAR Adol	1,118	1,161	1,180	1,123	989	1,021	1,048	958
CSTAR Opioid Tx	1,305	1,326	1,343	1,393	1,390	1,370	1,360	1,305
Primary Recovery & Tx	2,072	1,910	2,193	2,284	1,957	2,077	2,344	2,328
Compulsive Gambling	49	54	54	60	58	46	52	47
Unduplicated Number of ADA Served	20,613	20,277	21,232	21,818	20,746	20,118	20,967	20,758

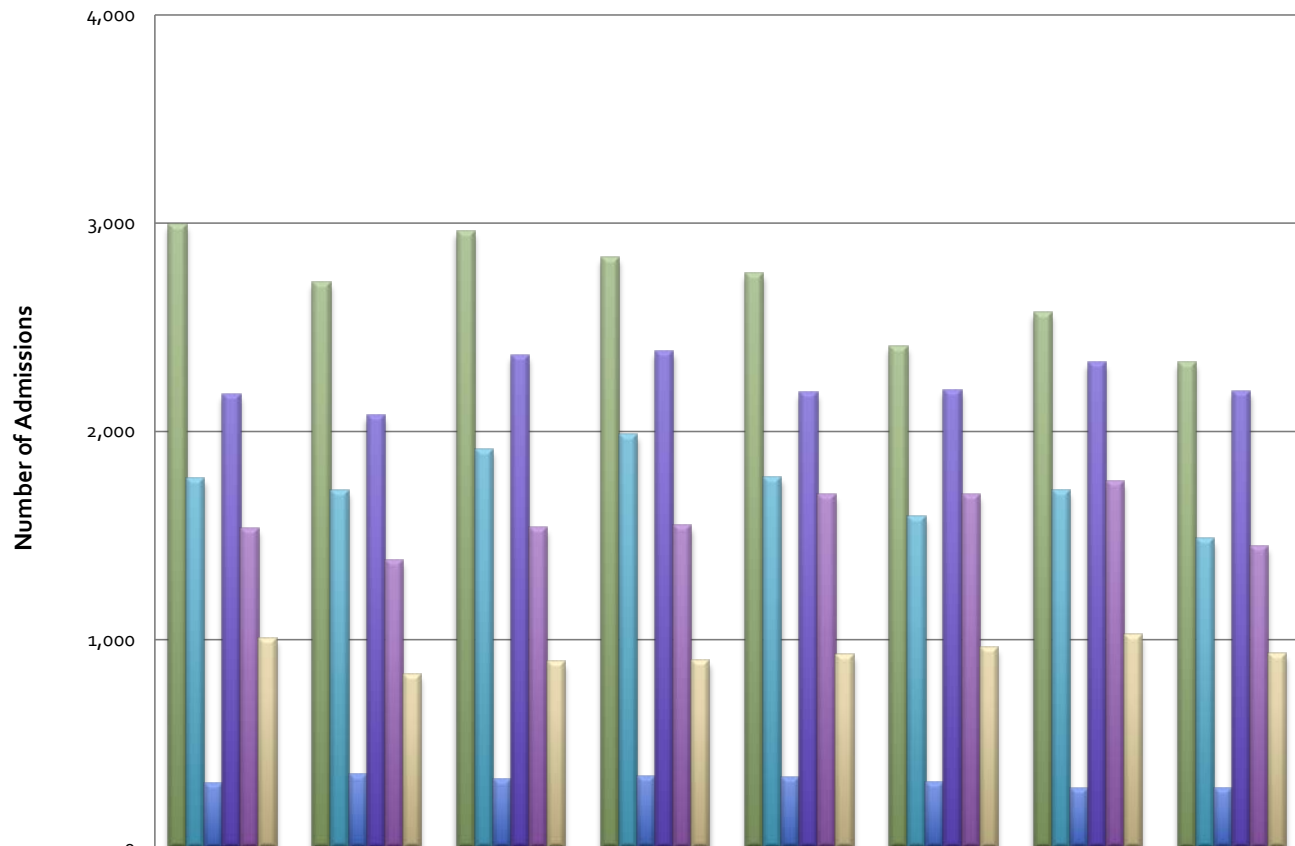
CAUTION: Data from July 2017 onward may be incomplete due to a delay in submission of encounters to CIMOR as the result of the CCBHC project.

NOTES: Consumers could be enrolled in more than one program during the quarter. For example, a consumer will generally be enrolled in both an Opioid Treatment program and a CSTAR or a Primary Recovery Program. Primary Recovery & Tx includes DOC specialty programs Free and Clean Plus and Partnership for Community Restoration, the Medication Assisted Treatment Grant, and the Opioid State Targeted Response Grant.

Significance: The majority of consumers receiving treatment services are in a CSTAR program.



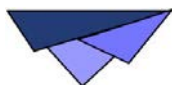
Drug of Choice at Admission to Substance Use Treatment



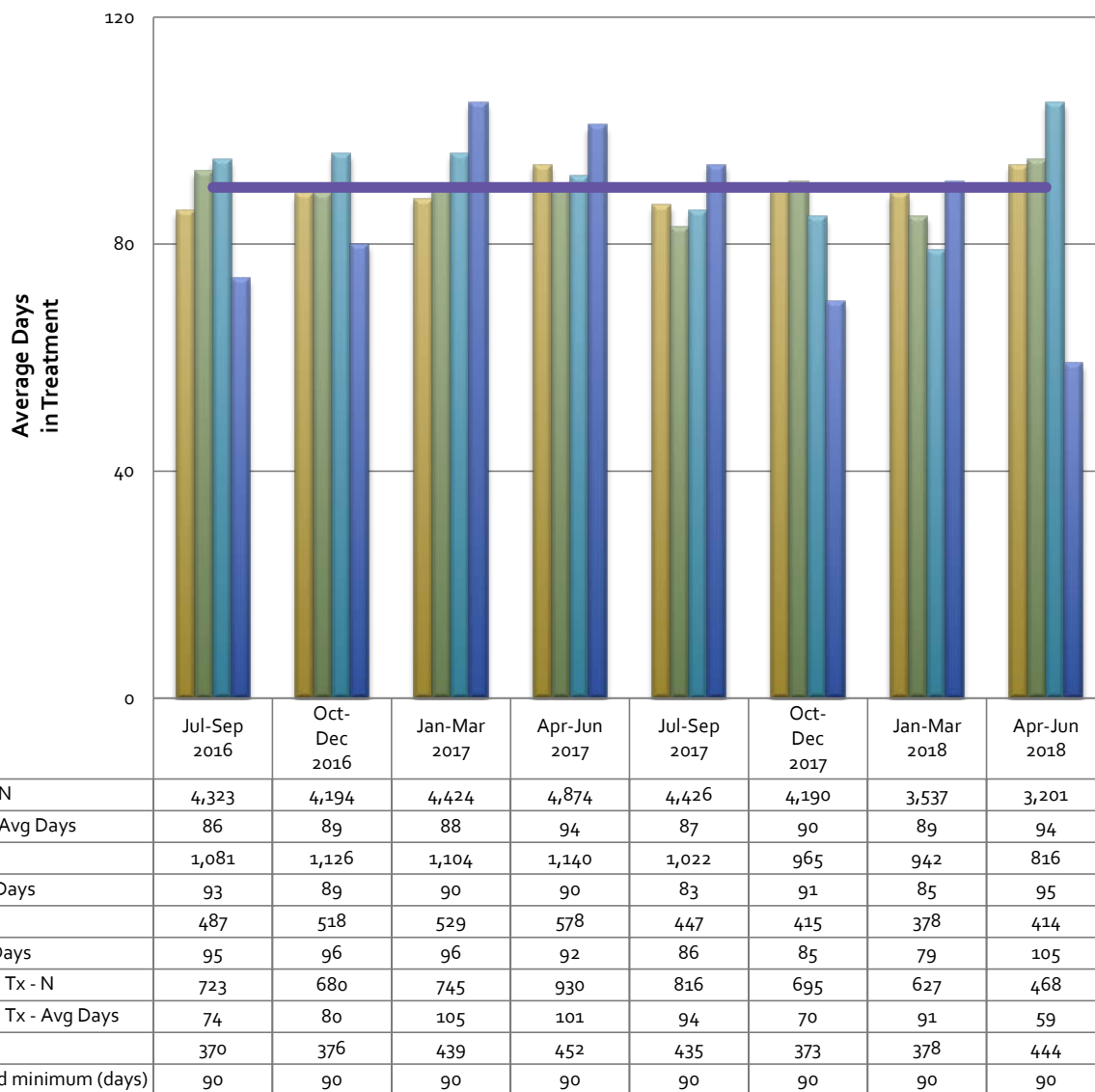
Alcohol	2,997	2,718	2,963	2,837	2,760	2,411	2,573	2,331
% Alcohol	30.5%	29.9%	29.6%	28.4%	28.5%	26.2%	26.5%	26.8%
Marijuana	1,777	1,717	1,916	1,988	1,782	1,593	1,720	1,485
% Marijuana	18.1%	18.9%	19.1%	19.9%	18.4%	17.3%	17.7%	17.1%
Cocaine	314	356	330	345	340	318	285	287
% Cocaine	3.2%	3.9%	3.3%	3.4%	3.5%	3.5%	2.9%	3.3%
Methamphetamine	2,180	2,078	2,368	2,385	2,188	2,201	2,335	2,196
% Methamphetamine	22.2%	22.9%	23.7%	23.8%	22.6%	24.0%	24.1%	25.3%
Heroin	1,538	1,384	1,540	1,549	1,700	1,698	1,763	1,450
% Heroin	15.7%	15.2%	15.4%	15.5%	17.5%	18.5%	18.2%	16.7%
Other Drugs	1,007	835	895	902	931	964	1,028	936
% Other Drugs	10.3%	9.2%	8.9%	9.0%	9.6%	10.5%	10.6%	10.8%

CAUTION: Data from July 2017 onward may be incomplete due to a delay in submission of encounters to CIMOR as the result of the CCBHC project.

Significance: Illicit drug admissions account for about 69 - 73% of all admissions to substance use treatment.



Retention In Substance Use Treatment



NOTE: Average days in treatment include both residential and outpatient services . Length of stay was calculated using the program admission date and the last date of billable service. Outliers greater than two standard deviations above the mean or less than or equal to 1 day were not included when calculating the average length of stay. Single day events are also excluded. Excludes detox.

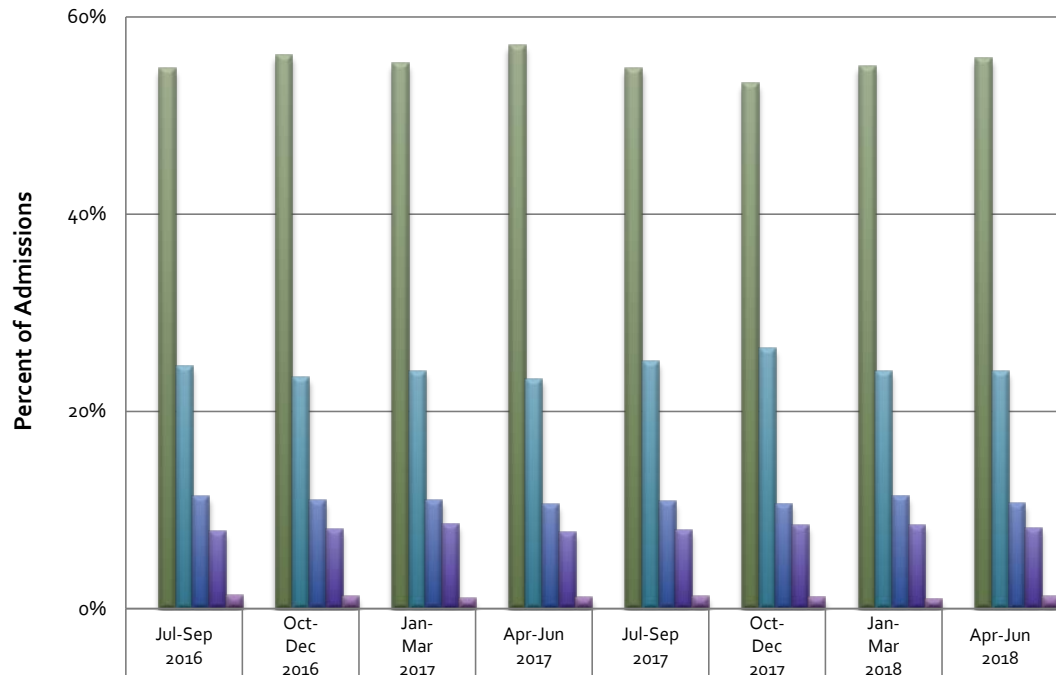
NIDA's Principles of Drug Addiction Treatment states: "The appropriate duration for an individual depends on the type and degree of his or her problem and needs. Research indicates that most addicted individuals need at least three months in treatment to significantly reduce or stop their drug use and that the best outcomes occur with longer durations of treatment."

Significance: Average length of stay in substance use treatment is around 3 months.



Adult Substance Use Treatment Admissions With Prior Substance Use Treatment Episodes in Past 36 Months

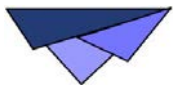
NOTE: One study found that the median time from first treatment to 1 alcohol-and drug-free year was 9 years - with 3 to 4 episodes of treatment.¹
¹Dennis, M.L. et al, 2005. The duration and correlates of addiction and treatment careers. Journal of Substance Abuse Treatment 28 (Suppl.1):S51-S62



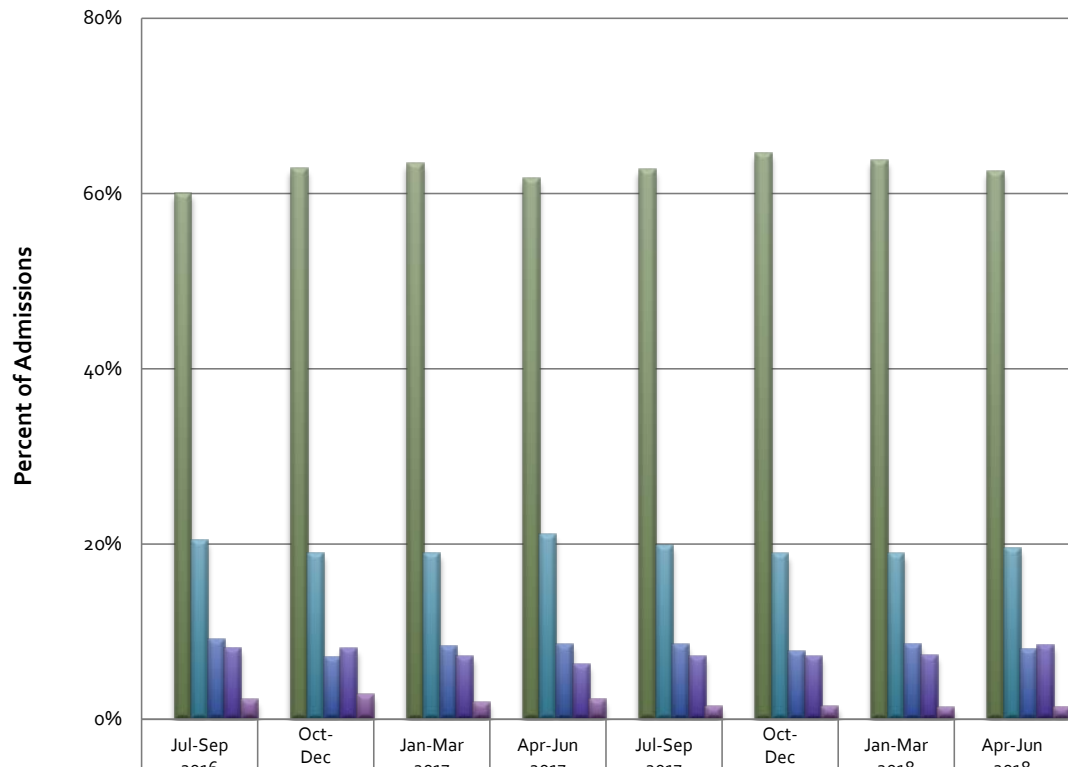
Adult Consumers Admitted to Tx	7,241	6,791	7,466	7,459	7,443	7,304	7,753	7,532
Adult Consumers with Previous Tx	3,272	2,982	3,335	3,195	3,364	3,414	3,487	3,329
Adult Consumers Admitted with Previous Tx Pct	45.2%	43.9%	44.7%	42.8%	45.2%	46.7%	45.0%	44.2%
0 Prior Tx Episodes	3,969	3,809	4,131	4,264	4,079	3,890	4,266	4,203
0 Prior Tx Episodes Pct	54.8%	56.1%	55.3%	57.2%	54.8%	53.3%	55.0%	55.8%
1 Prior Tx Episode	1,778	1,597	1,801	1,739	1,867	1,932	1,865	1,814
1 Prior Tx Episode Pct	24.6%	23.5%	24.1%	23.3%	25.1%	26.5%	24.1%	24.1%
2 Prior Tx Episodes	829	746	819	788	813	778	885	803
2 Prior Tx Episodes Pct	11.4%	11.0%	11.0%	10.6%	10.9%	10.7%	11.4%	10.7%
3 - 5 Prior Tx Episodes	568	550	637	581	591	619	660	619
3 - 5 Prior Tx Episodes Pct	7.8%	8.1%	8.5%	7.8%	7.9%	8.5%	8.5%	8.2%
6 + Prior Tx Episodes	97	89	78	87	93	85	77	93
6 + Prior Tx Episodes Pct	1.3%	1.3%	1.0%	1.2%	1.2%	1.2%	1.0%	1.2%

NOTE: The above data includes only treatment programs within 36 months of consumers' last admission within the quarter. Detox, SATOP, Recovery Support and Compulsive Gambling episodes of care were not included.

Significance: Half of admissions are for consumers who have not been enrolled in a treatment episode of care within the past 36 months. Approximately 10% of consumers admitted to a treatment episode of care have had 3 or more prior treatment episodes of care within the past 36 months.



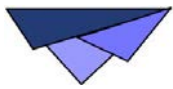
Adult Detox Admissions With Prior Detox Episodes in Past 36 Months



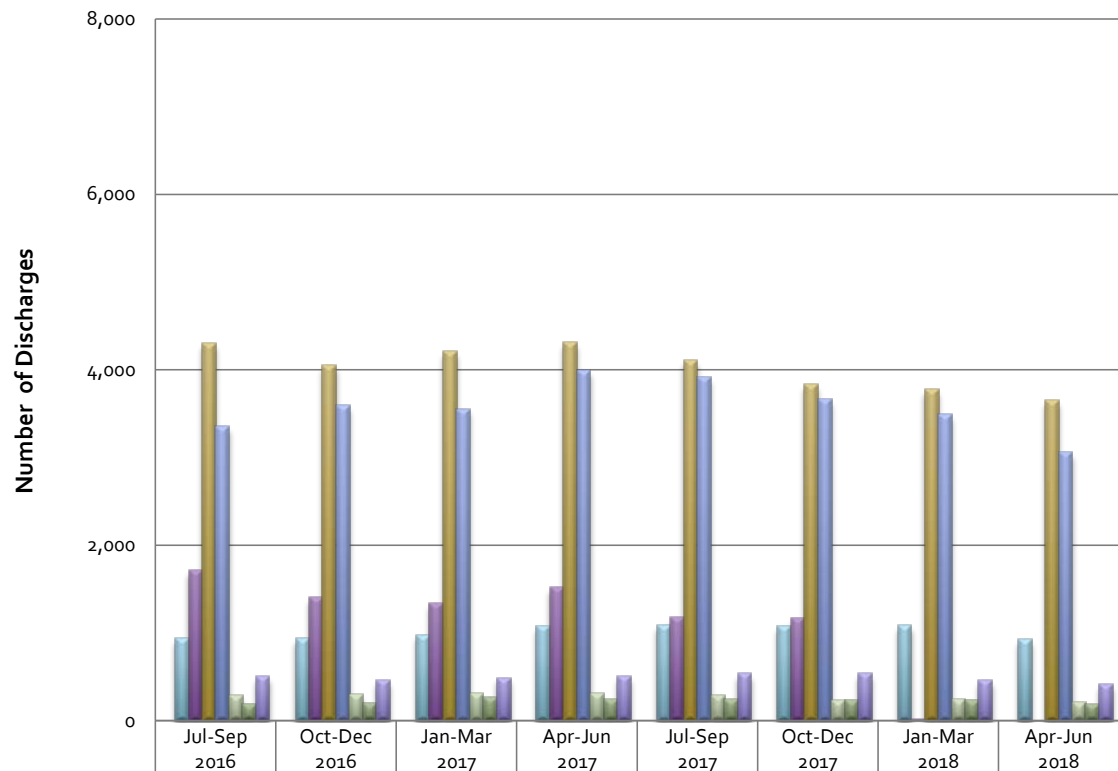
Consumers Admitted to Detox	1,736	1,583	1,617	1,635	1,681	1,481	1,459	1,264
Consumers with Previous Detox	694	587	590	626	626	524	528	473
Consumers Admitted with Previous Detox Pct	40.0%	37.1%	36.5%	38.3%	37.2%	35.4%	36.2%	37.4%
0 Prior Detox Episodes	1,042	996	1,027	1,009	1,055	957	931	791
0 Prior Detox Episodes Pct	60.0%	62.9%	63.5%	61.7%	62.8%	64.6%	63.8%	62.6%
1 Prior Detox Episode	355	301	307	345	335	280	276	247
1 Prior Detox Episode Pct	20.4%	19.0%	19.0%	21.1%	19.9%	18.9%	18.9%	19.5%
2 Prior Detox Episodes	158	113	134	140	144	115	125	101
2 Prior Detox Episodes Pct	9.1%	7.1%	8.3%	8.6%	8.6%	7.8%	8.6%	8.0%
3 - 5 Prior Detox Episodes	142	128	117	103	121	107	107	107
3 - 5 Prior Detox Episodes Pct	8.2%	8.1%	7.2%	6.3%	7.2%	7.2%	7.3%	8.5%
6 + Prior Detox Episodes	39	45	32	38	26	22	20	18
6 + Prior Detox Episodes Pct	2.2%	2.8%	2.0%	2.3%	1.5%	1.5%	1.4%	1.4%

NOTE: The above data includes only detox programs within 36 months of consumers' last admission within the quarter.

Significance: More than one-half of detox admissions (60-64%) are for consumers who have not been in detox within the past 36 months.



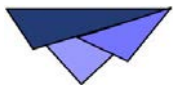
Substance Use Treatment Discharges



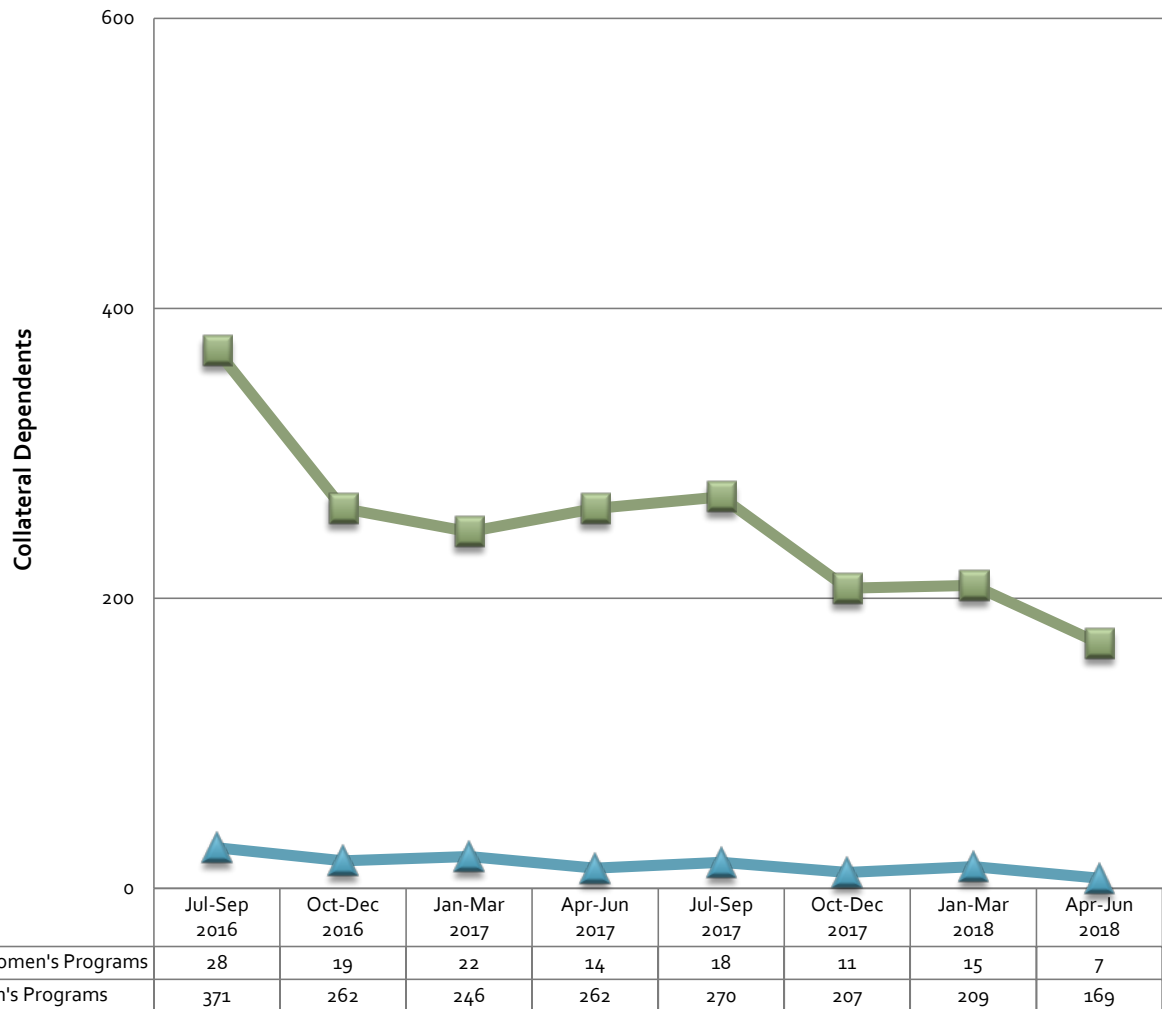
	Jul-Sep 2016	Oct-Dec 2016	Jan-Mar 2017	Apr-Jun 2017	Jul-Sep 2017	Oct-Dec 2017	Jan-Mar 2018	Apr-Jun 2018
Total Discharges	11,289	10,957	11,173	11,966	11,353	10,745	9,321	8,470
Agency Initiated	937	936	979	1,078	1,090	1,077	1,090	929
Auto Discharges	1,713	1,410	1,343	1,523	1,175	1,167	18	2
Completed Treatment	4,307	4,054	4,217	4,313	4,112	3,832	3,784	3,656
Consumer Initiated	3,353	3,593	3,556	3,992	3,913	3,662	3,491	3,064
Law Enforcement Initiated	286	300	318	311	286	239	245	216
Other Discharges	188	202	270	243	241	231	232	191
Transferred	505	462	490	506	536	537	461	412

NOTE: Other discharges category includes the following discharge reasons: consumer died; consumer moved away; medical reasons. On July 25, 2008 the monthly Auto Discharge program was implemented and closed all episodes of care that had no service or billing activity within the past six months. The episode of care was closed and the discharge date was set to the last date of billable service. This will cause an increase in the number of Auto Discharges in previous quarters. The number of auto discharges in the two most recent quarters are not comparable to that of prior quarters because insufficient time has lapsed for the case to be considered inactive. Recovery support only episodes are excluded.

Significance: About 40-50 % of consumers complete treatment. Consumer dropped out of treatment is the most common reason for non-completion.

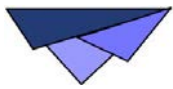


Collateral Dependents Served



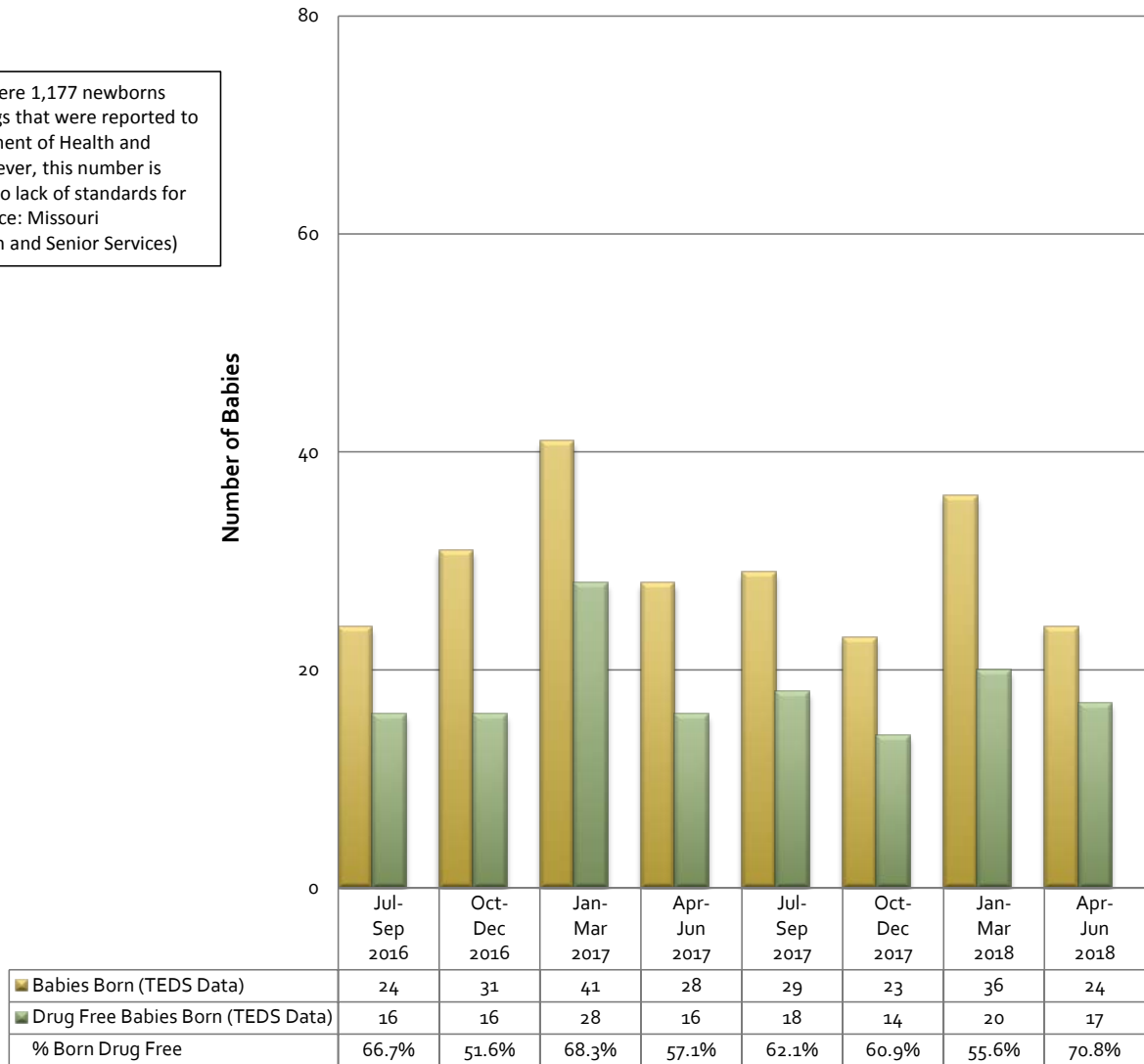
NOTE: A collateral dependent has no substance use disorder but is seeking services because of problems arising from his or her relationship with an individual who has a substance use disorder and is engaged in treatment.

Significance: The majority of collateral dependents are served in the CSTAR Women and Children's Programs. The number will vary each quarter due to several factors including number of consumers in treatment and number of consumers with children and/or a significant other.



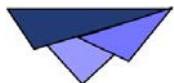
Babies Born Drug Free

During 2015, there were 1,177 newborns affected by illicit drugs that were reported to the Missouri Department of Health and Senior Services. However, this number is under-reported due to lack of standards for reporting. (Data Source: Missouri Department of Health and Senior Services)



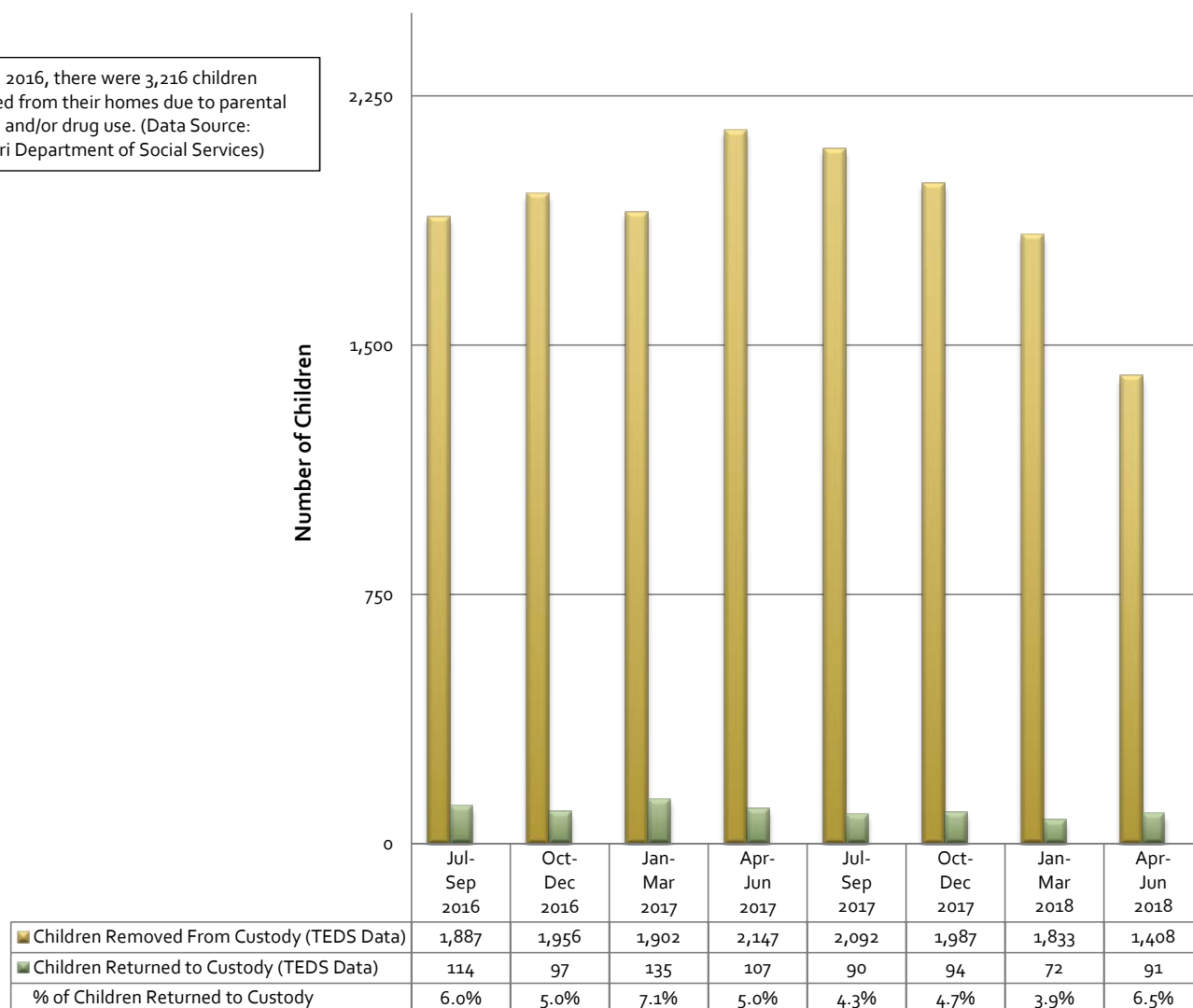
NOTE: In May 2010, TEDS data collection pages in CIMOR were upgraded to collect the number of babies born drug free during treatment for all female consumers in treatment and is collected when the program is closed. Due to this change, the data from previous reports are not comparable.

Significance: The number will vary due to several factors including number of pregnant women enrolled that had a baby during treatment and how late in the pregnancy the consumer seeks treatment.



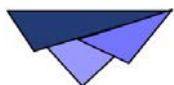
Children Returned to Custody

During 2016, there were 3,216 children removed from their homes due to parental alcohol and/or drug use. (Data Source: Missouri Department of Social Services)

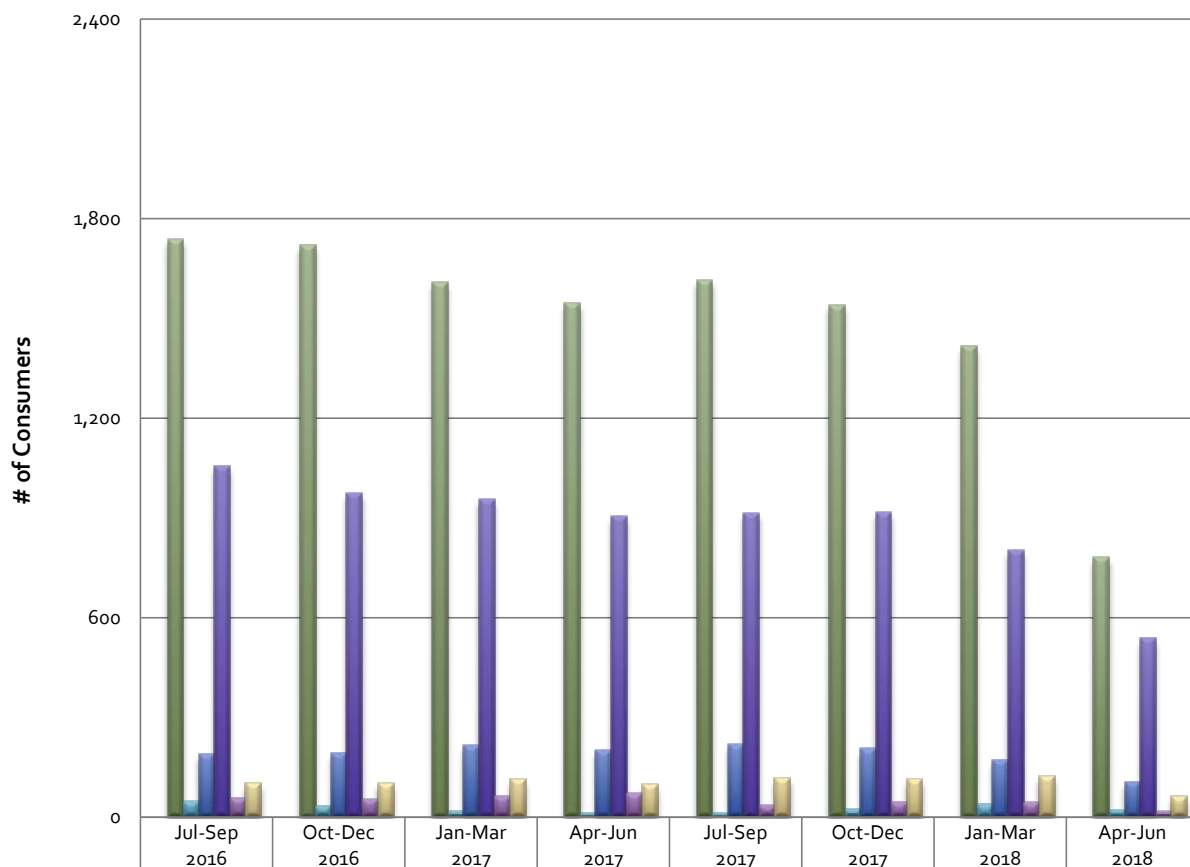


NOTE: In May 2010, TEDS data collection pages in CIMOR were upgraded to collect the number of children returned to custody for all consumers in treatment and is collected when the program is closed.

Significance: The chart shows the number of children returned to the parent/guardian while in any treatment program. The number will vary each quarter due to several factors such as, number of consumers who have had a substance use program closed within the quarter who have had children removed from custody and the number of children in the family.



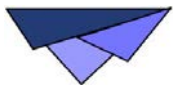
Consumers Receiving Recovery Supports



Unduplicated Number Served	2,059	2,023	1,931	1,815	1,874	1,816	1,670	1,087
Coordination Services	1,738	1,721	1,610	1,547	1,615	1,541	1,417	783
Drop-In Services	48	34	18	12	12	24	38	22
Housing	189	193	218	202	221	206	172	107
Recovery Services	1,054	975	957	906	914	918	803	538
Spiritual Services	57	54	65	72	37	45	44	17
Transportation	103	102	114	98	118	114	123	63

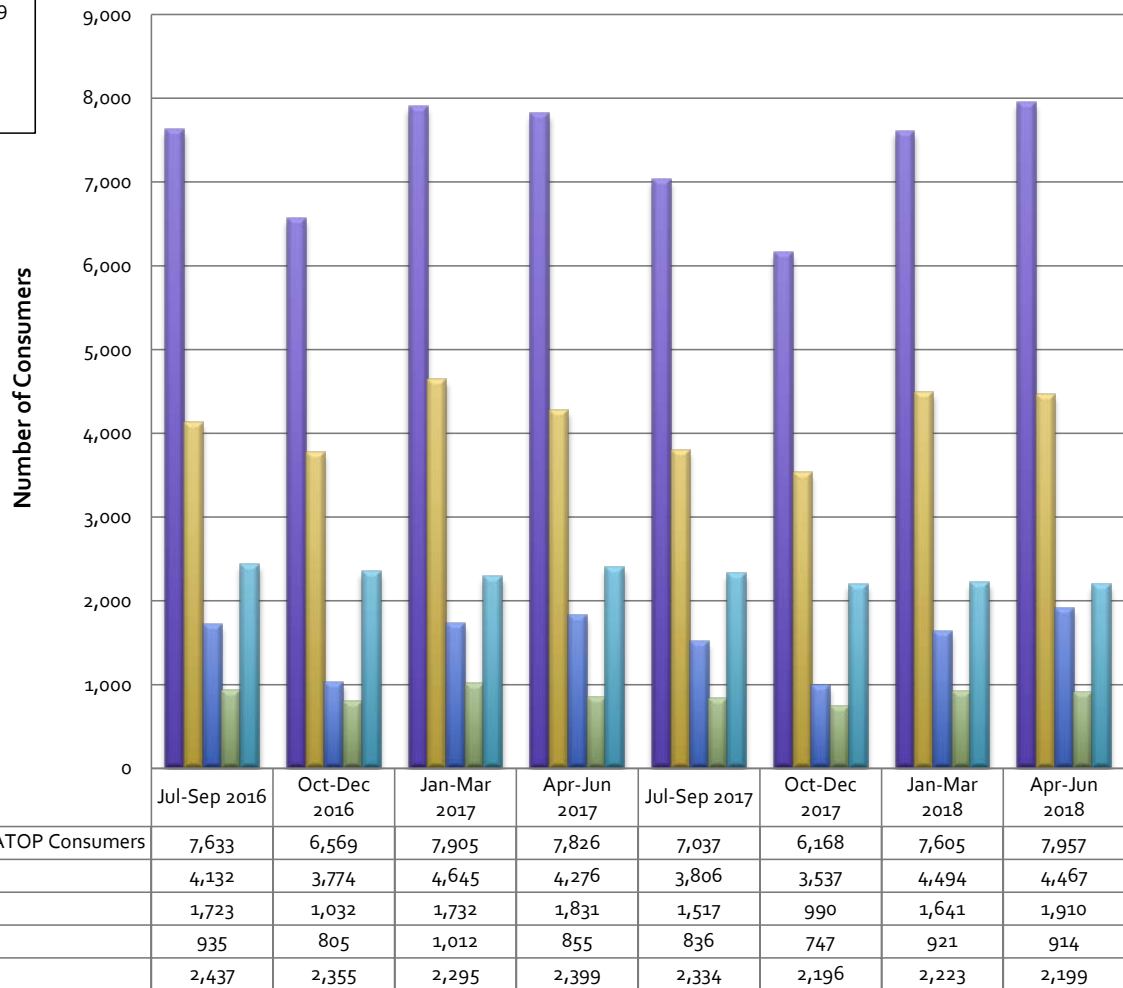
NOTE: Recovery supports are a collection of non-clinical services that support recovery from alcohol and drug addiction. The ATR program is limited to 7 counties in West Central Missouri, 7 counties in Southwest Missouri, and 7 counties in Southeast Missouri.

Significance: The federal Access to Recovery (ATR) IV grant began in July 2015 and ended April 2018.



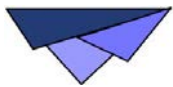
Substance Awareness Traffic Offenders Program (SATOP) Consumers Served

The annual number of DWI arrests have been trending downward: 35,543 in 2009 to 22,457 in 2016. Data Source: Missouri Department of Public Safety.

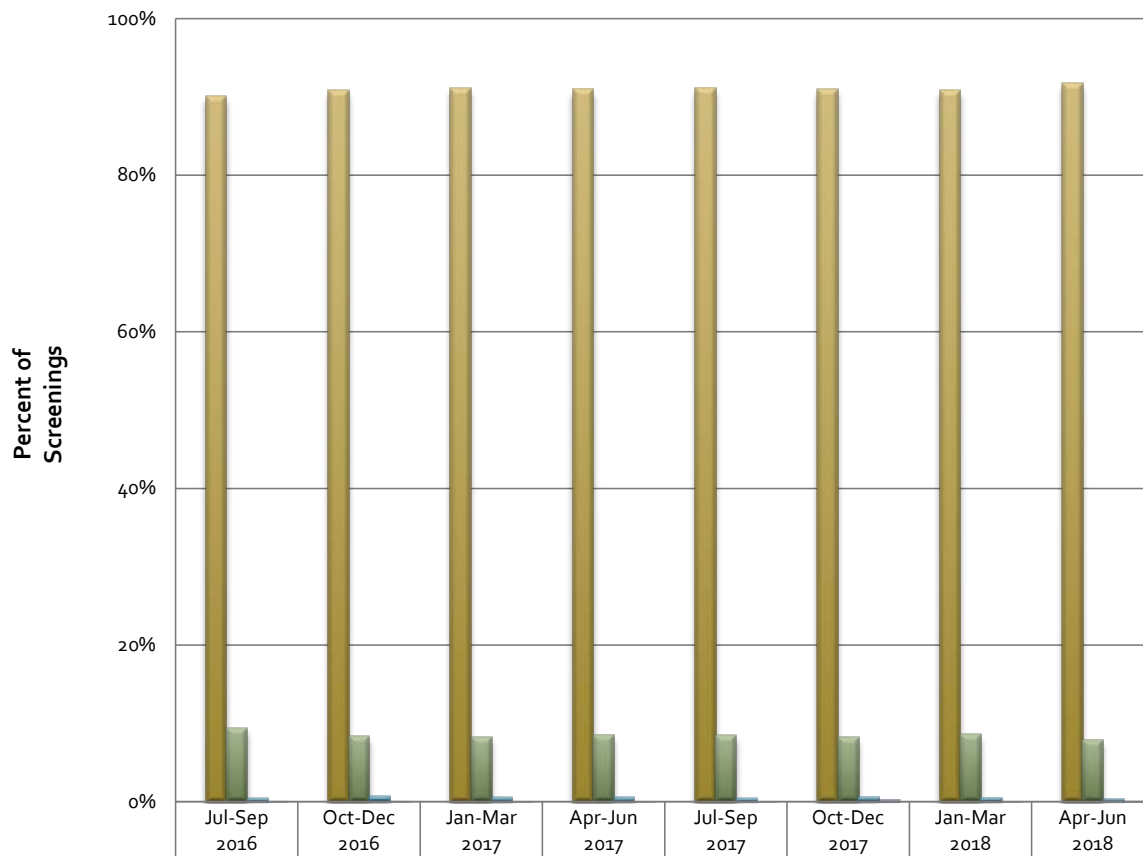


NOTES: The number screened will not equal the sum of the programs due to consumers having up to 6 months to enroll in the assigned program. Consumers may also decide to complete a comparable program that is more intensive than the one recommended by the screening. Clinical treatment programs include Clinical Intervention Program, Youth Clinical Intervention Program, and the Serious & Repeat Offender Program.

Significance: The data show a trend of increased screenings in the Jan-Mar quarter which is due in part to the increased number of DWIs cited over the holidays. DWI arrests have declined since 2009 (see note).



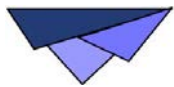
Substance Awareness Traffic Offenders Program (SATOP) Consumers Screened - Range of Previous SATOP Screenings Within Past 5 Years



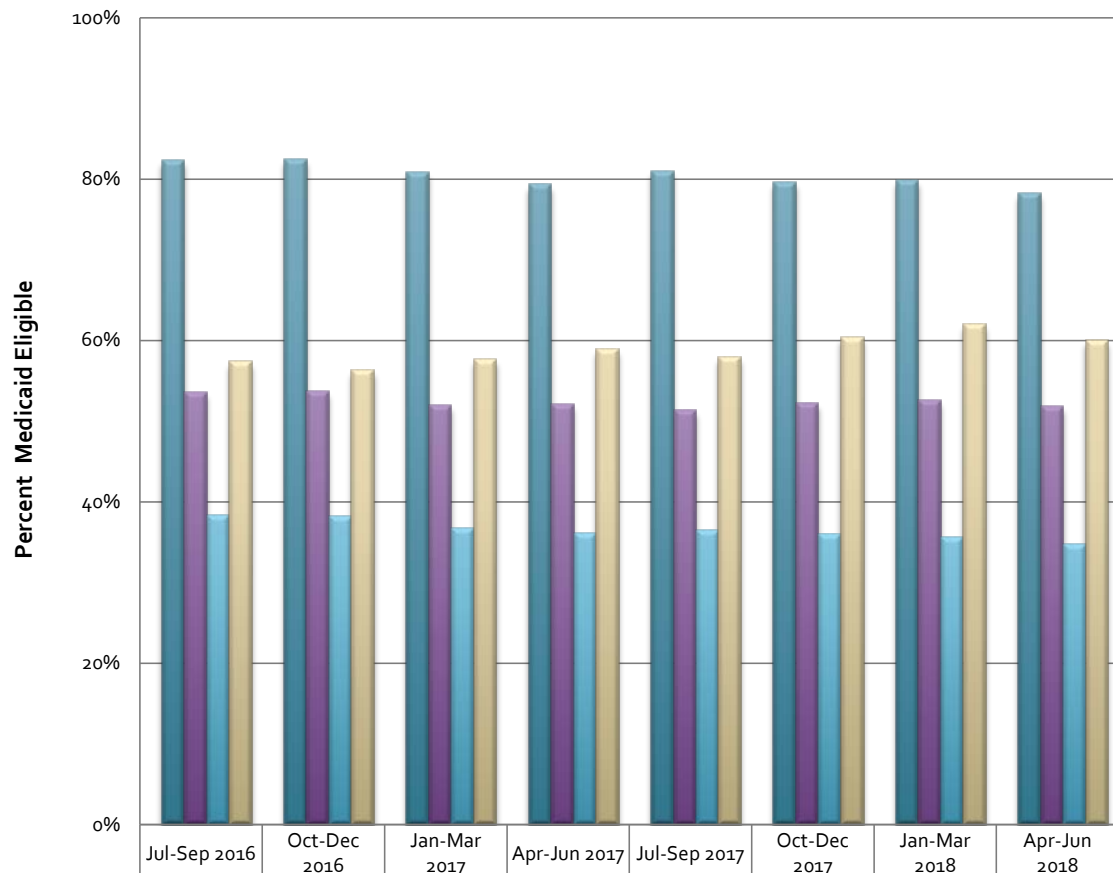
SATOP Screened or Assigned to Comparable Pgm	Jul-Sep 2016	Oct-Dec 2016	Jan-Mar 2017	Apr-Jun 2017	Jul-Sep 2017	Oct-Dec 2017	Jan-Mar 2018	Apr-Jun 2018
0 Prior Screening	4,841	4,411	5,434	5,046	4,442	4,156	5,256	5,308
0 Prior Screening Pct	4,364	4,007	4,954	4,589	4,047	3,782	4,777	4,873
1 Prior Screening	454	371	447	427	375	341	451	416
1 Prior Screening Pct	9.4%	8.4%	8.2%	8.5%	8.4%	8.2%	8.6%	7.8%
2 Prior Screenings	21	31	32	29	19	26	27	16
2 Prior Screenings Pct	0.4%	0.7%	0.6%	0.6%	0.4%	0.6%	0.5%	0.3%
3+ Prior Screenings	2	2	1	1	1	7	1	3
3+ Prior Screenings Pct	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.1%

NOTE: All data reflects number of previous screenings within the past 5 years of consumers' last SATOP screening within the reported quarter.

Significance: The majority of consumers who receive a SATOP screening have never had a SATOP screening. The majority of the consumers with at least 1 prior SATOP screening have had only 1 prior screening.



Medicaid Eligibility for Individuals Served in CSTAR Programs

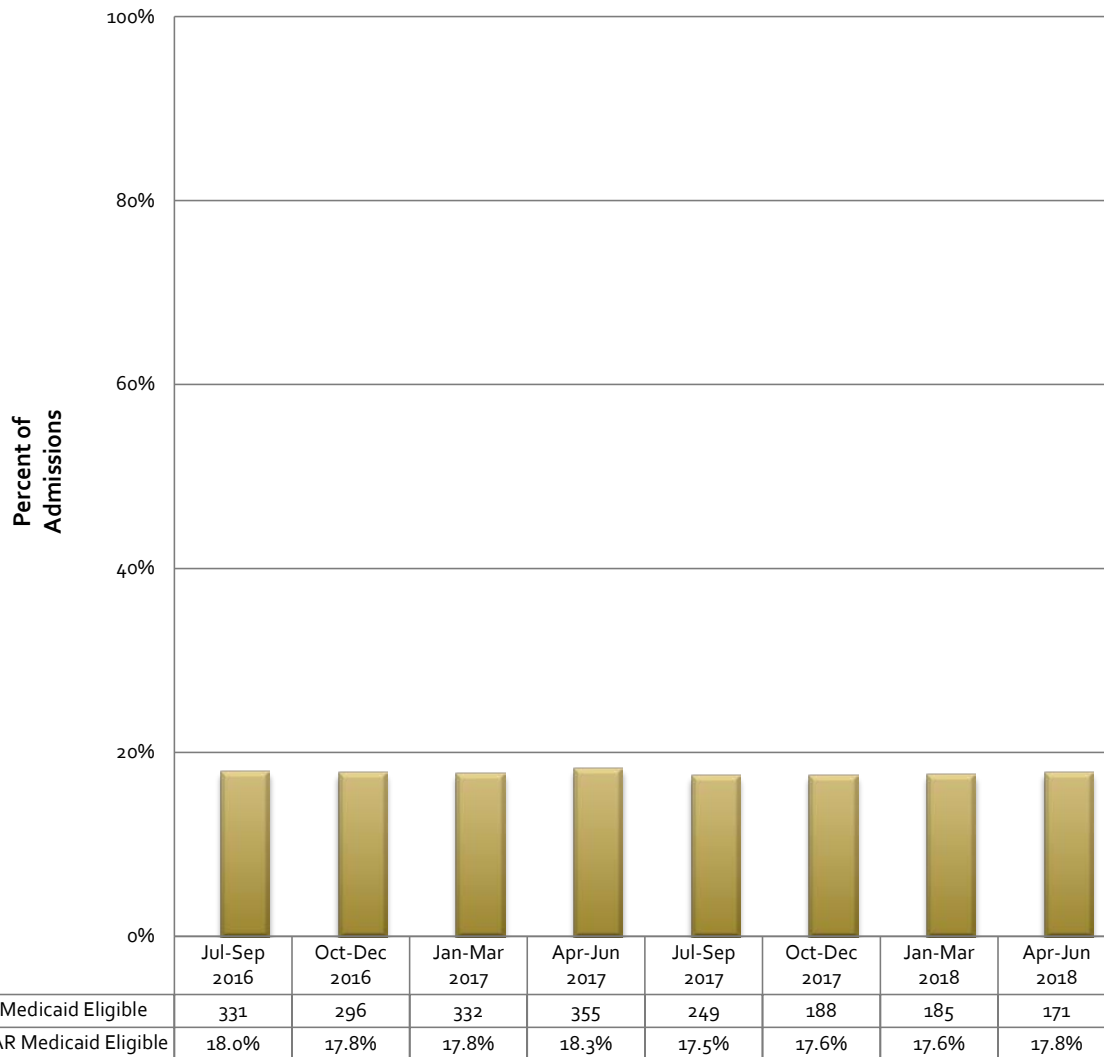


NOTE: CSTAR Detox is excluded.

Significance: Medicaid-eligible consumers comprise between 35 - 80% of the CSTAR consumer populations. The proportion is higher in the Adolescent program and lower in the General Adult program.



Medicaid Eligibility for Individuals Served in Non-CSTAR Substance Use Programs

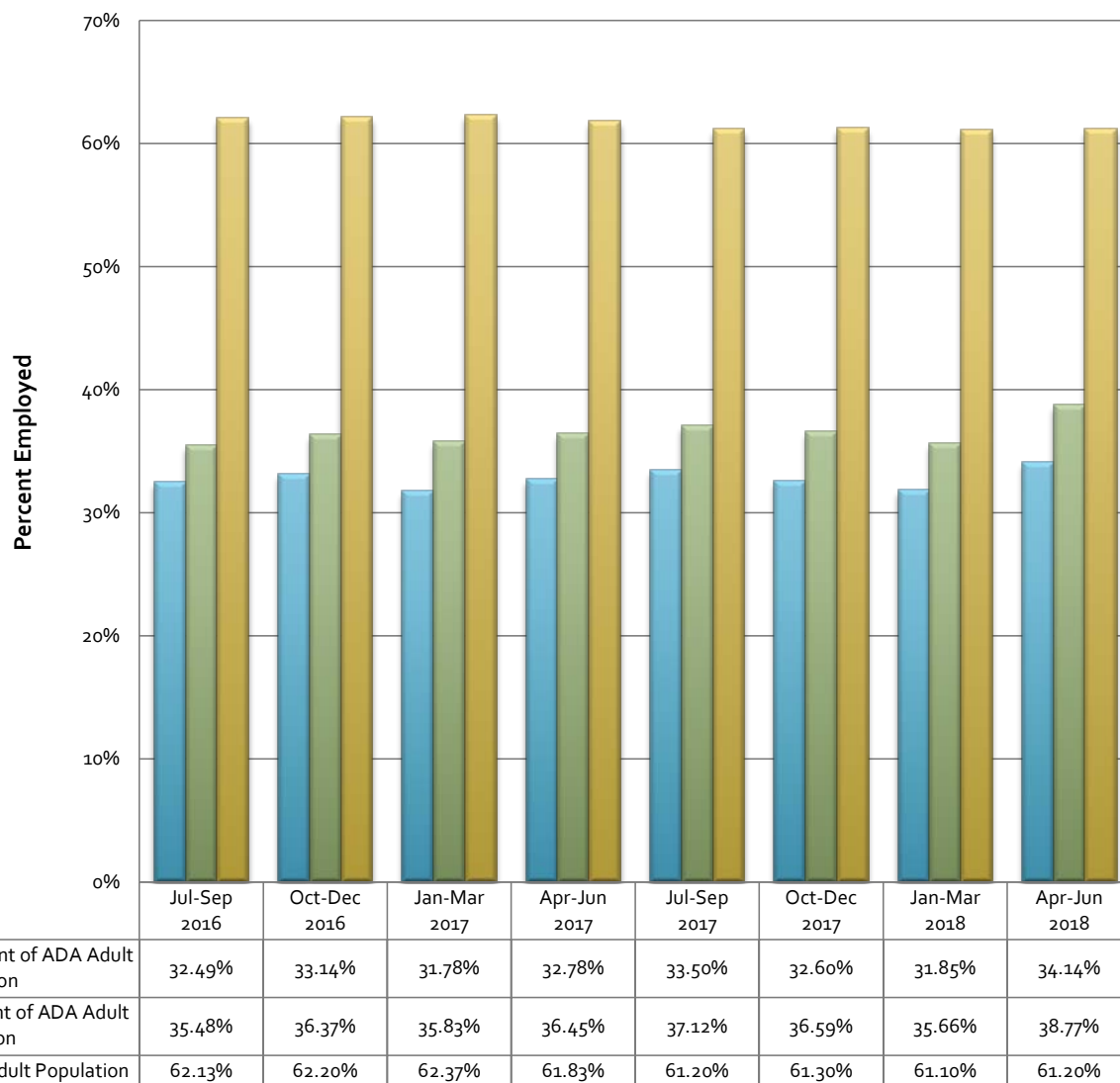


NOTE: Non-CSTAR programs include Primary Recovery Plus, Enhanced Primary Recovery Plus, Corrections Primary Recovery Plus, DOC Free & Clean Plus, DOC Partnership for Community Restoration, Clinical Intervention Program (Adult and Youth), Serious & Repeat Offender Program and General Treatment.

Significance: The number of consumers served in non-CSTAR programs has declined in recent years. Since April 2009, 24 Primary Recovery Plus contracts have been converted to CSTAR to allow for Medicaid reimbursement.

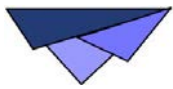


Employment of Adult Population in Substance Use Treatment

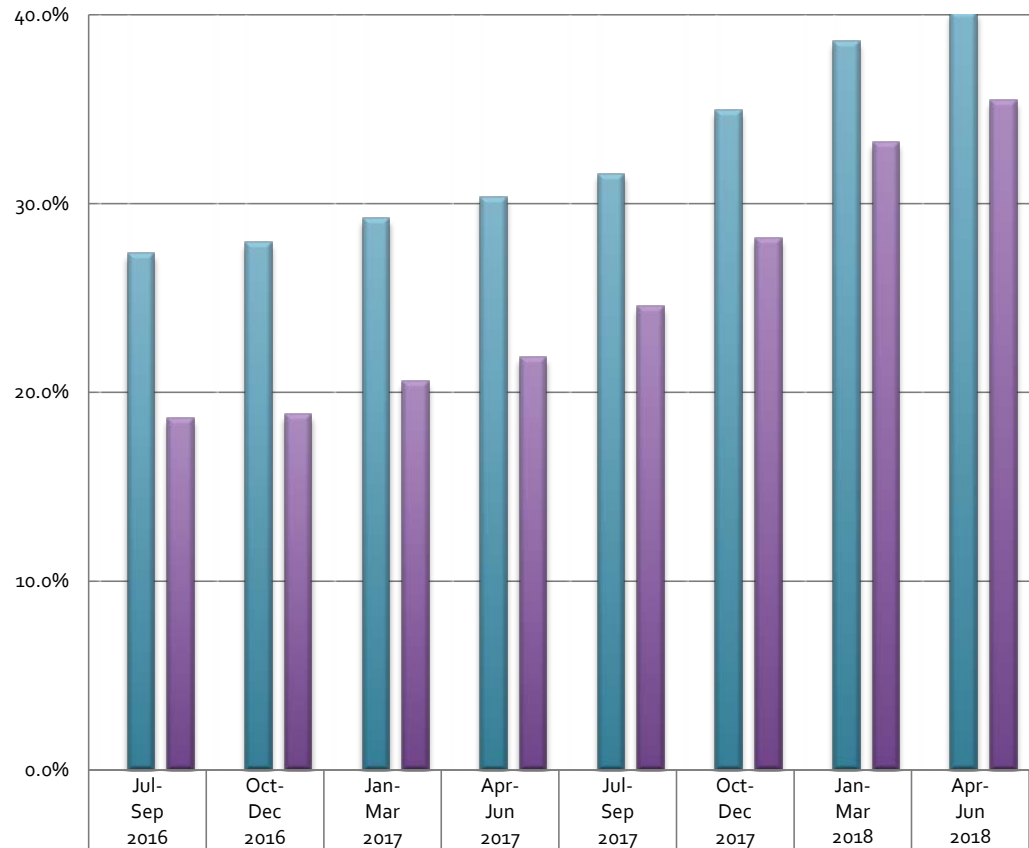


Note: Adolescent programs, detox, and codependents are excluded from the employment calculations.

Significance: Employment of the adult substance use treatment population measures engagement in work and accounts for those not actively seeking work - unlike the "Employment Rate" which is based only on the labor force. The measure is compared against the employment of the civilian noninstitutional population (age 16-64) in Missouri (data source: U.S. Bureau of Labor Statistics). Employment has a powerful therapeutic impact for individuals in recovery and is to be included in the treatment and recovery plan.



Consumers Receiving Medication Therapy



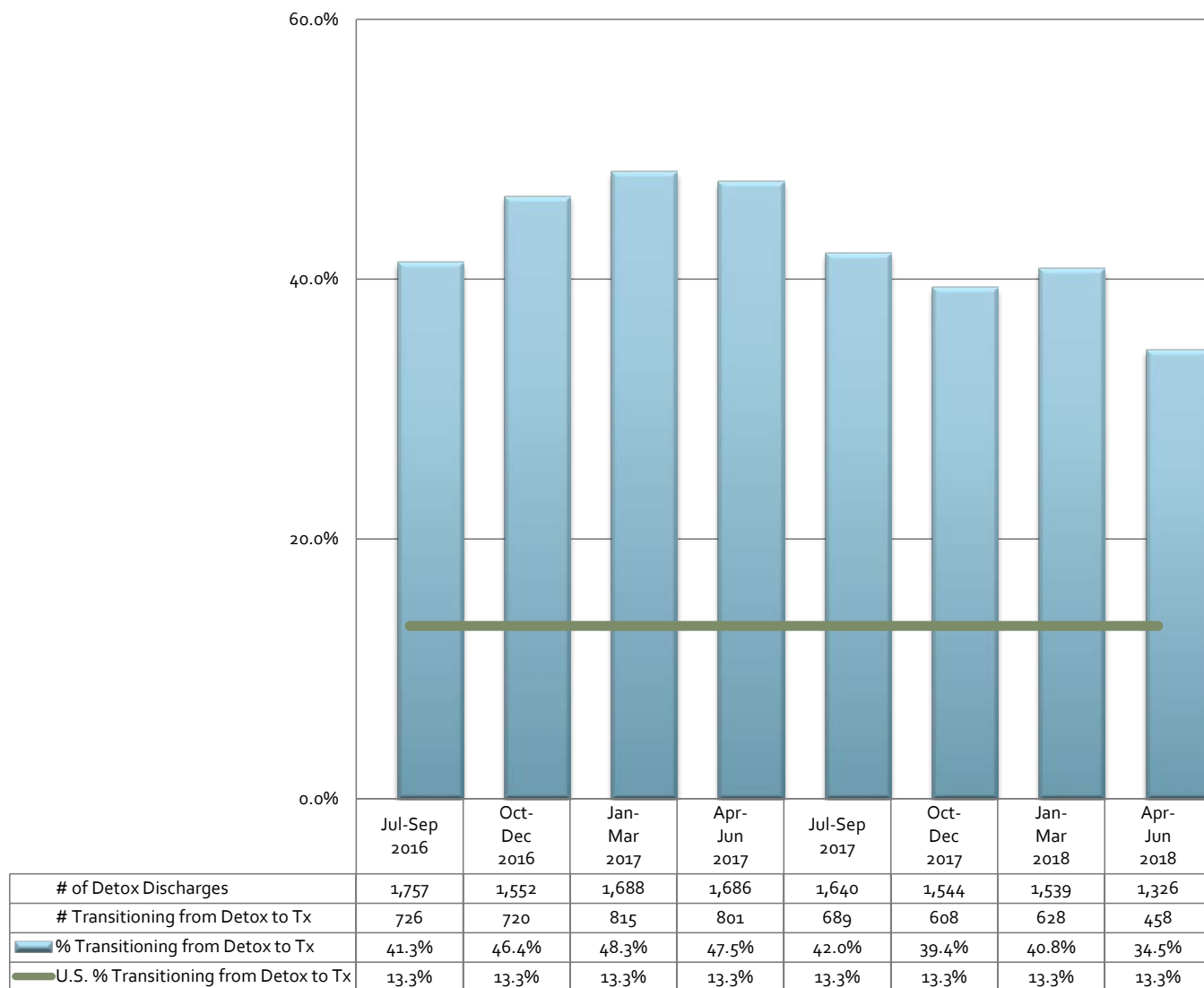
Including CSTAR Opioid:								
# Adult Opioid/Alcohol-Addicted Consumers	11,072	10,966	11,414	11,712	11,243	11,111	11,598	11,621
# Consumers Receiving Medication Therapy	3,032	3,066	3,336	3,551	3,551	3,884	4,479	4,664
% Consumers Receiving Medication Therapy	27.4%	28.0%	29.2%	30.3%	31.6%	35.0%	38.6%	40.1%
Excluding CSTAR Opioid:								
# Adult Opioid/Alcohol-Addicted Consumers	9,447	9,322	9,769	9,995	9,722	9,677	10,055	10,049
# Consumers Receiving Medication Therapy	1,761	1,757	2,014	2,188	2,388	2,724	3,342	3,564
% Consumers Receiving Medication Therapy	18.6%	18.8%	20.6%	21.9%	24.6%	28.1%	33.2%	35.5%

Note: Detox and SATOP treatment programs are excluded. Medications for addiction treatment include Vivitrol, acamprosate, buprenorphine, naltrexone, and Suboxone. Medicaid claims for direct billing from pharmacies for substance use treatment consumers are included. CIMOR only started tracking type of medication in January 2010.

Significance: Medication therapy in combination with psychosocial counseling to support treatment and recovery from substance use disorders is a National Quality Forum recommendation.



Transition from Detox to Treatment



CAUTION: Data from July 2017 onward may be incomplete due to a delay in submission of encounters to CIMOR as the result of the CCBHC project.

Notes: A transition is recorded if any treatment service is provided within 5 days of the last day of detox. U.S. data for transition from the Treatment Episode Dataset - Discharges, 2013 (SAMHSA, 2016).

Significance: "Detox alone with no follow-up is not treatment" (NIDA). Transitioning from detox to treatment is key to reducing recidivism and ending the "revolving door" phenomenon.