

Sexual Adjustment Inventory

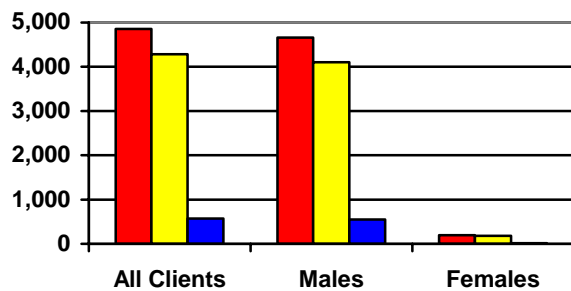
2002

Annual Summary Report

This report summarizes Sexual Adjustment Inventory (SAI) test data for **4,854** sex offenders. The SAI test data was gathered between January 1, 2002 and December 31, 2002. The SAI is described on the Behavior Data Systems, Ltd. website at www.bdsltd.com.

Number of Sex Offenders Tested

■ All Clients ■ First Offenders ■ Multiple Offenders



Report data collected in the year 2002.

- **4,854 offenders** were tested
- 4,657 offenders were male
- 197 offenders were female

- 4,286 or 88.3 percent were first offenders (1 or no sex-related arrest), 4,106 (95.8%) were male, 180 (4.2%) were female.
- 568 or 11.7 percent were multiple offenders (2 or more sex-related arrests), 551 (97.0%) were male, 17 (3.0%) were female.

Nearly 12 percent of the offenders tested (N=568) reported having two or more sex-related arrests. Having a second and subsequent arrest is indicative of a pattern of problematic behavior. Nearly three percent of the offenders have more than two arrests. 12.3 percent of the males and 9.2 percent of the females were multiple offenders (2 or more sex-related arrests).

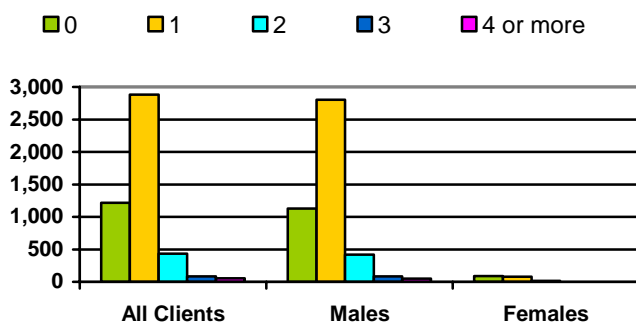
Percent of the Total Population

When number of offenders tested is analyzed as percentages, it was found that:



- 95.9 percent were male
- 4.1 percent were female
- 95.8 percent of first offenders were male
- 4.2 percent of first offenders were female
- 97.0 percent of multiple offenders were male
- 3.0 percent of multiple offenders were female

Number of Sex-related Arrests

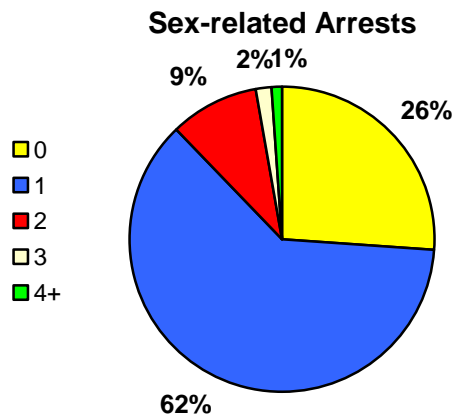


- 1,219 reported no arrest
- 2,880 reported 1 arrest
- 432 reported 2 arrests
- 84 reported 3 arrests
- 52 reported 4 or more arrests

Note: There were 187 tests with missing sex-related arrests information.

SAI test data were obtained from counseling agencies as well as community corrections service programs, consequently not all individuals tested had been arrested for a sex-related crime. Hence, certain individuals reported no arrests on their SAI answer sheets or left this information blank. First offenders are defined as those people tested who had 1 or no sex-related arrest and include any person who had missing information for number of arrests. This was only done so that the count of first and multiple offenders would equal the total number of offenders tested. None of the statistical analyses presented herein contain missing information. The majority (88.3%) of the offenders tested were first time offenders (1 or no arrests).

Sex-related Arrests as a Percentage



When number of sex-related arrests is converted to percentages, it was found that:

- 26.1 percent reported no arrest
- 61.7 percent reported 1 arrest
- 9.3 percent reported 2 arrests
- 1.8 percent reported 3 arrests
- 1.1 percent reported 4 or more arrests

The percentage of multiple offenders in this population was 11.7 percent. Nearly three percent of the offenders reported having 3 or more sex-related arrests. These percentages do not include the 187 cases with missing number of arrests information.

Court History and SAI Scale Scores

Correlation coefficients between court history such as, number of sex-related arrests, age at first conviction, etc., and SAI sex-related scales are presented in the table below (N=4,854). These results demonstrate that **number of sex-related arrests and sex-related convictions are significantly correlated with all SAI scales except Incest**. These findings support the validity of SAI scales. These correlations demonstrate that there is a positive relationship between number of sex-related arrests and convictions and SAI scale scores. As the number of sex-related arrests and convictions increase offenders' scale scores increase. However, some first offenders do score high on SAI scales and these offenders would be "missed" if only court records were used to determine offender risk. In other words, court records alone are not sufficient to predict offender risk. SAI scale scores are needed for accurate prediction.

The correlation between age at 1st conviction and SAI scale scores indicate that there is a significant relationship with the Sexual Adjustment and Child Molest scales. This means that as age at the time of first conviction increases the higher SAI scale scores are. Age of 1st conviction correlations are highest for the Child Molest Scale.

	Sex-Item Truthfulness	Sexual Adjustment	Child Molest	Sexual Assault	Incest	Exhibitionism
Sex-related Arrests	.074*	.250*	.104*	.080*	-.046	.099*
Sex-related Convictions	.064*	.298*	.161*	.105*	.004	.068*
Age at 1 st Conviction	.005	.129*	.157*	-.004	.007	-.013
Misdemeanors	.024	.010	-.025	.057*	.011	.025
Felonies	.061*	.152*	.115*	.118*	-.001	-.014
Probation	.011	.050*	-.021	.029	-.025	.023
Total Number of Arrests	.025	.001	-.024	.068*	-.019	-.003

Significant at * p<.001, ** p<.01.

Sex-related arrests and sex-related convictions are correlated highest with the Sexual Adjustment Scale. **Alcohol arrests** are correlated ($r=.336$) highest with Alcohol Scale scores. **Drug arrests** are correlated ($r=.262$) highest with the Drugs Scale. All criminal history variables are correlated with the Violence Scale. Many arrests and other court history are violence, alcohol and drug related. These results support the **discriminant validity** of the Sexual Adjustment, Alcohol, Drugs and Violence scales.

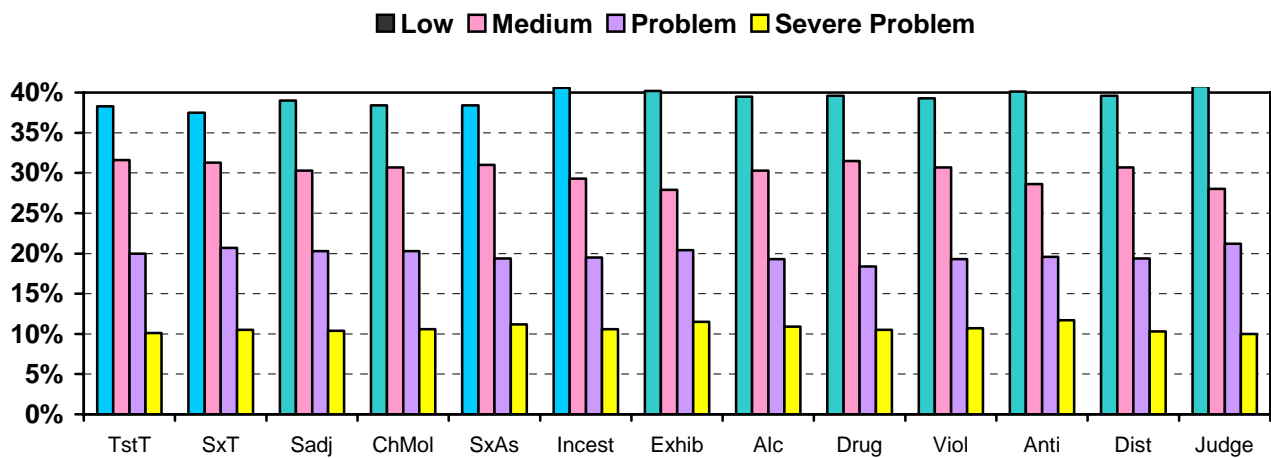
In summary, nearly 12 percent of the offenders tested had previous sex-related arrests. Number of sex-related arrests is correlated with SAI scores. Many multiple offenders (having multiple arrests) have established sexual adjustment, child molest and violence problems. Court history correlates most with violence-related problems and to a lesser degree with alcohol and drug problems.

The following pages present test statistics for the SAI. Statistics support the SAI as a reliable, valid and accurate sex offender test. A test cannot be valid without being reliable, and test accuracy is required for accurate referrals for intervention and treatment.

Sexual Adjustment Inventory

Accuracy

SAI Accuracy (N = 4,854)



Scale	Low Risk (39%)		Medium Risk (30%)		Problem Risk (20%)		Severe Problem (11%)	
Test-item Truthfulness	38.3	(0.7)	31.6	(1.6)	20.0	(0.0)	10.1	(0.9)
Sex-item Truthfulness	37.5	(1.5)	31.3	(1.3)	20.7	(0.7)	10.5	(0.5)
Sexual Adjustment	39.0	(0.0)	30.3	(0.3)	20.3	(0.3)	10.4	(0.6)
Child Molest Scale	38.4	(0.6)	30.7	(0.7)	20.3	(0.3)	10.6	(0.4)
Rape Scale	38.4	(0.6)	31.0	(1.0)	19.4	(0.6)	11.2	(0.2)
Incest Scale	40.6	(1.6)	29.3	(0.7)	19.5	(0.5)	10.6	(0.4)
Exhibitionism Scale	40.2	(1.2)	27.9	(2.1)	20.4	(0.4)	11.5	(0.5)
Alcohol Scale	39.5	(0.5)	30.3	(0.3)	19.3	(0.7)	10.9	(0.1)
Drugs Scale	39.6	(0.6)	31.5	(1.5)	18.4	(1.6)	10.5	(0.5)
Violence Scale	39.3	(0.3)	30.7	(0.7)	19.3	(0.7)	10.7	(0.3)
Antisocial Scale	40.1	(1.1)	28.6	(1.4)	19.6	(0.4)	11.7	(0.7)
Distress Scale	39.6	(0.6)	30.7	(0.7)	19.4	(0.6)	10.3	(0.7)
Judgment Scale	40.8	(1.8)	28.0	(2.0)	21.2	(1.2)	10.0	(1.0)

The four risk ranges (low, medium, problem and severe) and the predicted percentages for each risk range category are shown in bold print in the top row of the above table. The percentages for each SAI scale and risk range category were obtained from the cumulative distribution of offenders scale scores. **All offender obtained risk range percentages were within 2.1 percentage points of the predicted percentages. Accuracy of the SAI is shown by the small differences between obtained risk range percentages and predicted percentages. Offenders' scores can be considered 98% accurate. The SAI is an accurate sex offender assessment test.**

Reliability

All SAI scales have very high reliability coefficients and are statistically reliable. The professionally accepted reliability standard is .75 and higher.

Reliability coefficient alphas for the SAI. All alphas are significant at $p < .001$.

<u>SAI SCALES</u>	<u>Coefficient Alphas</u>
Test-item Truthfulness Scale	.88
Sex-item Truthfulness Scale	.86
Sex Adjustment Scale	.88
Child Molest Scale	.85
Sexual Assault (Rape) Scale	.85
Incest Scale	.91
Exhibitionism Scale	.89
Alcohol Scale	.93
Drugs Scale	.92
Violence Scale	.85
Antisocial Scale	.89
Distress Scale	.88
Judgment Scale	.85

Validity

SAI validity results demonstrate that the Sexual Adjustment Scale accurately identified **99.4 percent** of the offenders who admitted their sexual adjustment was a serious problem. Nearly all of the offenders who admitted serious sexual adjustment problems scored in the problem range on the Sexual Adjustment Scale. Similarly, the Child Molest Scale identified **97.9 percent** of offenders who had been convicted of child molestation. The Sexual (Rape) Assault, Incest and Exhibitionism scales identified **100 percent** of offenders who had been arrested for rape, had sex with a family member and shown their sex organs to strangers, respectively. The Alcohol and Drugs scales correctly identified **100 percent** of offenders who had been in treatment for alcohol and drug problems, respectively. The Violence, Antisocial, Distress and Judgment scales accurately identified **100 percent** of offenders who were arrested for a violence crime, admitted being antisocial, had been in treatment for anxiety and depression and denied having common sense, respectively. These criteria of problematic behavior were used because database analysis in real time settings does not lend itself to administering more than one test. Earlier SAI research did use other tests for criterion validity.

Summary

Data for this report was obtained from diskettes that were returned in the year 2002. The SAI was administered to **4,854 sex offenders**. There were 4,657 males (95.9%) and 197 females (4.1%). The offender population is broadly defined as Caucasian (78.2%), 21 through 40 years of age (59.7%), High School Graduate or better (63.0%) and single (43.4%) or married (29.0%).

SAI Accuracy, Reliability and Validity

- SAI scale risk range percentile scores are **98 percent accurate**.
- All SAI scales reliability coefficients were .85 or higher. This compares favorably with the professionally accepted reliability standard of .75 or better.
- Validity analyses demonstrate that SAI scales identified nearly all offenders who had been in treatment or admitted having serious problems.

Offenders' measured "risk" is shown to be **98 percent** accurate. Offenders with low risk range (0 to 39th percentile) or even medium risk (40 to 69th percentile) scores on the Sexual Adjustment Scale do not represent sexual adjustment problems, whereas, offenders who scored in the problem risk range (70th percentile and above) have identifiable sexual adjustment problems. Correct identification of problems corroborates these findings. The SAI is a reliable, valid and accurate test for sex offender assessment.

Sex-related Arrests (Offender self-report)

- There were 4,286 (88.3%) First Offenders (1 or no sex-related arrest) and 568 (11.7%) Multiple Offenders (2 or more arrests).
- 12.3% (551) of the males and 9.2% (17) of the females were Multiple Offenders.

Nearly twelve percent of the offenders tested had previous sex-related arrests. More males than females were multiple offenders. If the cases with missing sex-related arrests information were removed, there were 4,099 (87.8%) first offenders.

Other Arrests and Court Histories (Offender self-report)

- 1,971 (42.3%) of the offenders had 1 or no arrest and 2,692 (57.7%) multiple offenders (2 or more total number of arrests)
- 59.3% of the offenders had 1 or more felony convictions
- 60.2% of the offenders had been placed on probation
- 35.8% of the offenders reported having a first conviction between the ages of 15 and 20

These statistics demonstrate that sex offenders have criminal history other than just sex-related arrests. Over half of the offenders have been arrested multiple times. Over half had been convicted of a felony. Forty percent have been placed on probation. Many offenders had been convicted of a crime before the age of 20.

Alcohol and Drug Arrests (Offender self-report)

- 25.3% of the offenders had one or more alcohol-related arrests and 12.5% had two or more arrests
- 14.2% of the offenders had at least one drug-related arrest and 4.9% had two or more arrests

One-fourth of the offenders had one or more alcohol-related arrests and over 14 percent had one or more drug arrests. Many of these sex offenders have substance abuse problems which may act as catalysts for sex-related problems.

Appendix

Offender data contained on SAI diskettes returned to Risk & Needs in 2002 are summarized.

Offender Demographics and Self-reported Court History

Population				
Males		Females		Total
N	%	N	%	N
4,657	95.9	197	4.1	4,854

Age Group				
Age	Males	Females	Total	
	N	N	N	%
20 & Under	551	20	571	11.7
21 - 25	665	35	700	14.4
26 - 30	630	45	675	13.9
31 - 35	675	41	716	14.8
36 - 40	773	29	802	16.6
41 - 45	472	15	487	10.1
46 - 50	329	5	334	6.9
51 - 55	215	3	218	4.5
56 - 60	158	1	159	3.3
61 & Over	181	2	183	3.8

Race/Ethnicity				
Race	Males	Females	Total	
	N	N	N	%
Caucasian	3,573	167	3,740	78.2
Black	671	12	683	14.3
Hispanic	247	8	255	5.3
Asian	20	1	21	0.4
Native American	41	5	46	1.0
Other	38	0	38	0.8

Education				
Grade	Males	Females	Total	
	N	N	N	%
8 th grade or Less	335	13	348	7.7
Some High School	1,276	49	1,325	29.3
HS Graduate/GED	1,745	85	1,830	40.5
Some College	694	24	718	15.9
College Grad	286	11	297	6.6

Marital Status				
Status	Males	Females	Total	
	N	N	N	%
Single	2,019	61	2,080	43.4
Married	1,318	73	1,391	29.0
Divorced	882	38	920	19.2
Separated	347	19	366	7.6
Widowed	39	1	40	0.8

Offender Reported Court-Related History

Number	Sex-related Arrests				Sex-related Convictions			
	Males	Females	Total		Males	Females	Total	
	N	N	N	(%)	N	N	N	(%)
0	1,130	89	1,219	26.1	1,721	104	1,825	39.5
1	2,802	78	2,880	61.7	2,291	65	2,356	51.0
2	418	14	432	9.3	283	8	291	6.3
3	82	2	84	1.8	75	2	77	1.7
4	19	0	19	0.4	24	1	25	0.5
5	11	0	11	0.2	13	1	14	0.3
6 +	21	1	22	0.5	28	1	29	0.6

Offender Reported Court-Related History, continued

Age	Age at First Conviction			
	Males	Females	Total	
	N	N	N	(%)
12 & Under	74	2	76	1.8
13-14	142	2	144	3.4
15-16	287	5	292	7.0
17-18	703	21	724	17.3
19-20	471	9	480	11.5
21-22	370	11	381	9.1
23-24	239	16	255	6.1
25-29	472	31	503	12.0
30-39	708	40	748	17.9
40-49	299	11	310	7.4
50 & Over	271	2	273	6.5

Number	Number of Times Arrested			
	Males	Females	Total	
	N	N	N	(%)
0	636	58	694	14.9
1	1,217	60	1,277	27.4
2	770	35	805	17.3
3	517	10	527	11.3
4	347	9	356	7.6
5 – 9	623	10	633	13.6
10 or More	368	3	371	8.0

Number	Misdemeanor Convictions				Felony Convictions			
	Males	Females	Total		Males	Females	Total	
	N	N	N	(%)	N	N	N	(%)
0	2,198	120	2,318	50.7	1,764	107	1,871	40.7
1	900	37	937	20.5	1,715	53	1,768	38.5
2	465	14	479	10.5	495	13	508	11.1
3	299	5	304	6.6	201	4	205	4.5
4	167	1	168	3.7	103	2	105	2.3
5 – 9	247	3	250	5.5	105	1	106	2.3
10 +	118	0	118	2.6	32	0	32	0.7

Number	Times on Probation				Times on Parole			
	Males	Females	Total		Males	Females	Total	
	N	N	N	(%)	N	N	N	(%)
0	1,757	95	1,852	39.8	3,700	173	3,873	84.0
1	1,752	71	1,823	39.2	561	8	569	12.3
2	684	12	696	15.0	116	2	118	2.6
3	181	5	186	4.0	25	0	25	0.5
4	43	0	43	0.9	12	0	12	0.3
5	19	0	19	0.4	4	0	4	0.1
6 +	33	1	34	0.7	8	0	8	0.2

Offender Reported Court-Related History, continued

Number	Times Sentenced to Jail				Times Sentenced to Prison			
	Males	Females	Total		Males	Females	Total	
	N	N	N	(%)	N	N	N	(%)
0	2,593	129	2,722	59.1	3,128	163	3,291	71.3
1	1,101	37	1,138	24.7	1,006	17	1,023	22.2
2	329	11	340	7.4	197	1	198	4.3
3	167	2	169	3.7	60	0	60	1.3
4	77	1	78	1.7	25	1	26	0.6
5	55	1	56	1.2	6	0	6	0.1
6 +	106	0	106	2.3	13	0	13	0.3

Number	Alcohol Arrests				Drug Arrests			
	Males	Females	Total		Males	Females	Total	
	N	N	N	(%)	N	N	N	(%)
0	3,286	161	3,447	74.7	3,791	166	3,957	85.8
1	580	13	593	12.8	420	11	431	9.3
2	223	4	227	4.9	126	1	127	2.8
3	120	3	123	2.7	39	1	40	0.9
4	56	1	57	1.2	13	1	14	0.3
5	50	0	50	1.1	14	0	14	0.3
6 +	120	0	120	2.6	27	1	28	0.6

The information presented in the above tables is what was reported by offenders on their SAI answer sheets. Many sex offenders have histories of criminal behavior. Nearly half (49.3%) of the offenders tested had been convicted of a felony. Nearly two-thirds (60.2%) have been placed on probation. Over 25 percent of the offenders had one or more alcohol-related arrests. These statistics show that sex offenders have multiple problems. SAI scales identify these offenders' problems.

Data on the percentages of first offenders and multiple offenders shows that there were over 88 percent first offenders. Nearly 12 percent of the offenders had been arrested for sex-related offenses two or more times. Nearly one-third (29.5%) of the offenders had their first arrest by the age of 18 and forty-one percent had been arrested before the age of 21. Over half (57.7%) of the offenders had two or more lifetime arrests.

SAI scale score risk ranges are stable and show that the SAI continues to accurately assess offender risk. High statistical reliability is maintained in the SAI. Discriminant validity is supported by correlations between court history variables and SAI scale scores. Number of sex-related arrests is correlated with SAI scale scores. Sex-related arrests correlate best with Sexual Adjustment Scale scores. Alcohol arrests correlate best with Alcohol Scale scores. Drug arrests correlate best with Drugs Scale scores. Many arrests and other court history are correlated with violence-related problems and to a lesser degree with alcohol and drug problems. These statistics support the scientifically sound methodologies of the SAI. The SAI is a reliable, valid and accurate test.

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