

## SEX OFFENDER SENTENCING IN WASHINGTON STATE: SEX OFFENDER RISK LEVEL CLASSIFICATION TOOL AND RECIDIVISM TECHNICAL APPENDIX

### Technical Appendix A

#### Predictive Accuracy of Individual Assessment Item From the Washington State Sex Offender Risk Level Classification Tool

Assessment Item	AUC		
	Felony	Violent Felony	Felony Sex
1. Number of sex/sex related convictions	0.543	0.518	0.513
2. Number of felony convictions	0.662	0.615	0.500
3. Other sex/sex related arrests or charges	0.523	0.542	0.608
4. Age at first sex/sex related conviction	0.602	0.551	0.522
5. Use or threat of weapon in sex/sex related convictions	0.513	0.545	0.510
6. Use of force in sex/sex related convictions	0.548	0.566	0.540
7. Total number of victims of all sex/sex related offenses	0.525	0.516	0.529
8. Victims age	0.593	0.538	0.564
8a. Victims under 7	0.542	0.506	0.529
8b. Victims 7 to 12 years old	0.588	0.555	0.549
8c. Victims 13 to 15 years old, offender not five years older	0.504	0.520	0.526
8d. Victims 13 to 15 years old, offender five years older	0.513	0.500	0.513
8e. Victims over 15	0.504	0.517	0.556
9. Offense characteristics	0.539	0.547	0.537
9a. Victim tied up	0.501	0.504	0.520
9b. Victim tortured	0.500	0.503	0.511
9c. Victim transported	0.513	0.533	0.514
9d. Victimization duration	0.521	0.515	0.502
10. Length of offending history	0.589	0.533	0.534
11. Felony committed upon previous release	0.608	0.615	0.500
12. Alcohol/drug use pattern during 12 months prior	0.595	0.543	0.534
13. Prior sex offender treatment/programming	0.536	0.534	0.534
14. Number of significant/marital relationships	0.524	0.539	0.582
15. Adult employment history	0.585	0.538	0.522

Assessment Item	AUC		
	Felony	Violent Felony	Felony Sex
16. Multiple paraphilias score	0.534	0.514	0.539
16a. Exhibitionism	0.511	0.510	0.509
16b. Fetishism	0.504	0.504	0.504
16c. Frotteurism	0.505	0.504	0.504
16d. Voyeurism	0.509	0.508	0.508
16e. Pedophilia	0.559	0.533	0.510
16f. Rape	0.520	0.525	0.515
16g. Sexual masochism	0.501	0.505	0.503
16h. Sexual sadism	0.503	0.506	0.506
16i. Telephone scatologia	0.501	0.503	0.503
17. Release environment	0.513	0.521	0.563
18. Age at release	0.613	0.546	0.564
19. Discipline history while incarcerated	0.602	0.635	0.557
20. Chemical dependency treatment during incarceration	0.582	0.558	0.537
21. Sex offender treatment during incarceration	0.529	0.534	0.522

The items that best predict recidivism are as follows:

- **Felony recidivism:** *Item 2: Number of felony convictions with an AUC of 0.662.*
- **Violent felony recidivism:** *Item 19: Discipline history while incarcerated with an AUC of 0.635.*
- **Felony sex recidivism:** *Item 3: Other sex/sex related arrests or charges with an AUC of 0.608.*

**Technical Appendix B**  
**Stepwise Logistic Regression Results for Predicting Felony Sex Recidivism**  
**From the Washington State Sex Offender Risk Level Classification Tool**

**Violent Felony Recidivism**  
**AUC=0.708**

Assessment Item	Odds Ratio <sup>1</sup>	Prob. Level <sup>2</sup>	Std. Est. <sup>3</sup>
2. Number of felony convictions:	1.40	0.05	0.14
3. Other sex/sex related arrests or charges	1.50	0.15	0.10
5. Use or threat of weapon in sex/sex related convictions	1.52	0.13	0.09
13. Prior sex offender treatment/programming	0.24	0.06	-0.22
15. Juvenile school history	2.09	0.14	0.08
18. Age at release	1.39	0.06	0.13
19. Discipline history while incarcerated	1.78	0.00	0.23

**Felony Sex Recidivism**  
**AUC=0.738**

Assessment Item	Odds Ratio <sup>1</sup>	Prob. Level <sup>2</sup>	Std. Est. <sup>3</sup>
3. Other sex/sex related arrests or charges	2.88	0.02	0.27
8b. Victims 7 to 12 years old	1.81	0.19	0.16
14. Number of significant/marital relationships	1.37	0.05	0.20
16. Multiple paraphilias score	0.45	0.11	-0.26
18. Age at release	1.73	0.07	0.21
20. Chemical dependency treatment during incarceration	1.50	0.15	0.16

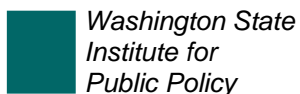
<sup>1</sup> Odds Ratio above 1.0 indicates the item increases the likelihood of felony sex recidivism while an odds ratio below 1.0 decreases the likelihood.

<sup>2</sup> Probability level for statistical significance. Probability cutoff of 0.25 is used for stepwise inclusion.

<sup>3</sup> Standardized parameter estimate.

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